

# A INTRODUCTION

This manual consists of the following 11 sections:

| No. | Section                           | Description                                                                                                                                                                                                                                                                                                                                                        |
|-----|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A   | INDEX                             | Index of the contents of this manual.                                                                                                                                                                                                                                                                                                                              |
|     | INTRODUCTION                      | Brief explanation of each section.                                                                                                                                                                                                                                                                                                                                 |
| B   | HOW TO USE THIS MANUAL            | Instructions on how to use this manual.                                                                                                                                                                                                                                                                                                                            |
| C   | TROUBLE-SHOOTING                  | Describes the basic inspection procedures for electrical circuits.                                                                                                                                                                                                                                                                                                 |
| D   | ABBREVIATIONS                     | Defines the abbreviations used in this manual.                                                                                                                                                                                                                                                                                                                     |
| E   | GLOSSARY OF TERMS AND SYMBOLS     | Defines the symbols and functions of major parts.                                                                                                                                                                                                                                                                                                                  |
| F   | RELAY LOCATIONS                   | Shows position of the Electronic Control Unit, Relays, Relay Block, etc. This section is closely related to the system circuit.                                                                                                                                                                                                                                    |
| G   | ELECTRICAL WIRING ROUTING         | Describes position of Parts Connectors, Splice points, Ground points, etc. This section is closely related to the system circuit.                                                                                                                                                                                                                                  |
| H   | POWER SOURCE (Current Flow Chart) | Describes power distribution from the power supply to various electrical loads.                                                                                                                                                                                                                                                                                    |
| I   | INDEX                             | Index of the system circuits.                                                                                                                                                                                                                                                                                                                                      |
|     | SYSTEM CIRCUITS                   | Electrical circuits of each system are shown from the power supply through ground points. Wiring connections and their positions are shown and classified by code according to the connection method. (Refer to the section, "How to use this manual").<br>The "System Outline" and "Service Hints" useful for troubleshooting are also contained in this section. |
| J   | GROUND POINTS                     | Shows ground positions of all parts described in this manual.                                                                                                                                                                                                                                                                                                      |
| K   | OVERALL ELECTRICAL WIRING DIAGRAM | Provides circuit diagrams showing the circuit connections.                                                                                                                                                                                                                                                                                                         |

This manual provides information on the electrical circuits installed on vehicles by dividing them into a circuit for each system.

The actual wiring of each system circuit is shown from the point where the power source is received from the battery as far as each ground point. (All circuit diagrams are shown with the switches in the OFF position.)

English

When troubleshooting any problem, first understand the operation of the circuit where the problem was detected (see System Circuit section), the power source supplying power to that circuit (see Power Source section), and the ground points (see Ground Points section). See the System Outline to understand the circuit operation.

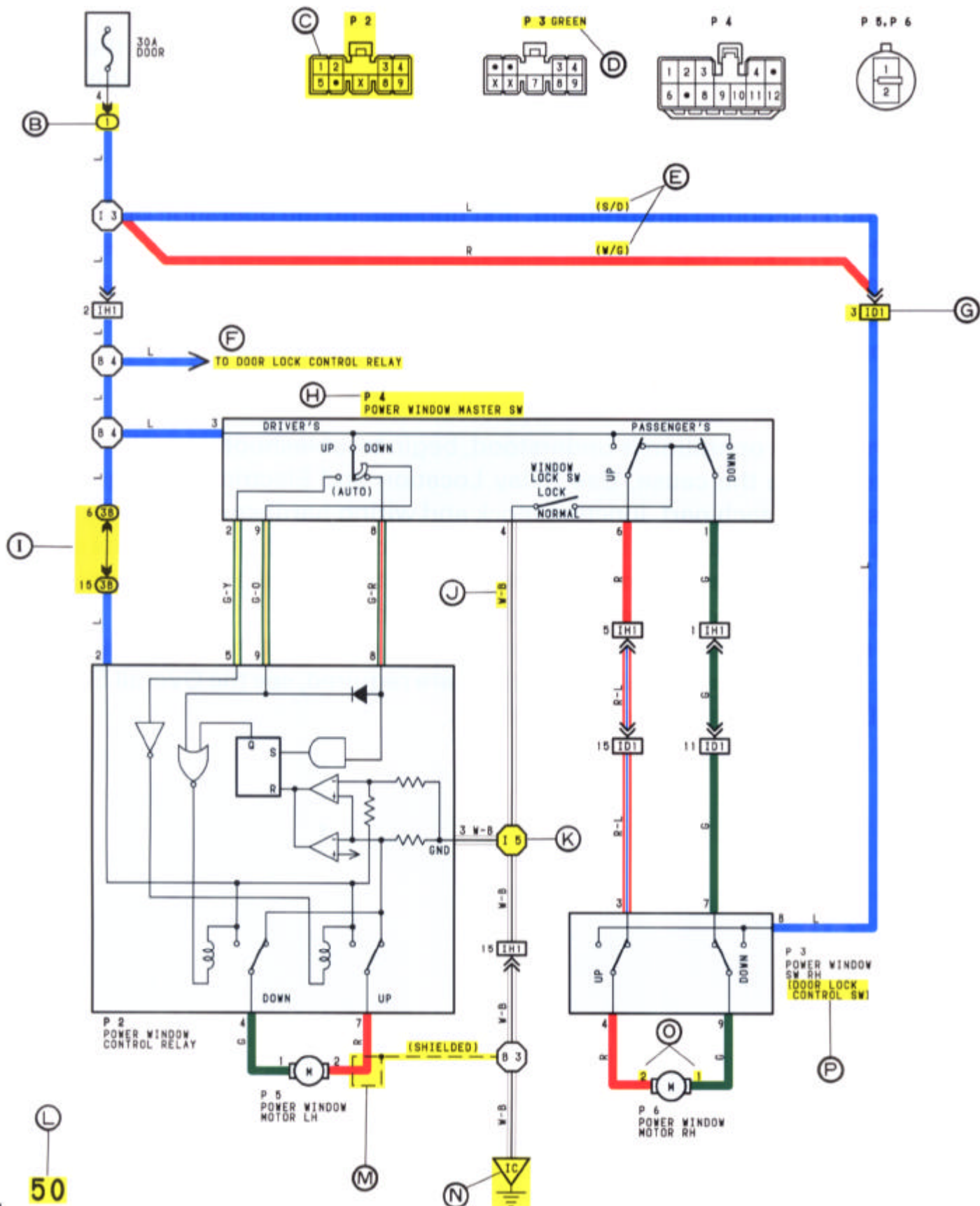
When the circuit operation is understood, begin troubleshooting of the problem circuit to isolate the cause. Use Relay Location and Electrical Wiring Routing sections to find each part, junction block and wiring harness connectors, wiring harness and wiring harness connectors, splice points, and ground points of each system circuit. Internal wiring for each junction block is also provided for better understanding of connection within a junction block.

Wiring related to each system is indicated in each system circuit by arrows (from\_\_\_, to\_\_\_). When overall connections are required, see the Overall Electrical Wiring Diagram at the end of this manual.

## B HOW TO USE THIS MANUAL

\* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

### POWER WINDOW

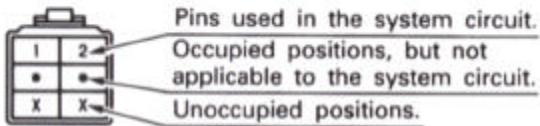


- (A): System Title
- (B): Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B.

Example: ① Indicates Relay Block No. 1.

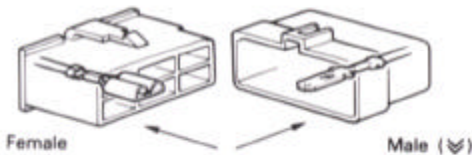
- (C): Indicates the connector to be connected to a part (the numeral indicates the pin No.)

Explanation of pin use.



The pins shown are only for the highest grade, or only include those in the specification.

- (D): Connector Color  
Connectors not indicated are milky white in color.
- (E): ( ) is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.
- (F): Indicates related system.
- (G): Indicates the wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (↗). Outside numerals are pin numbers.

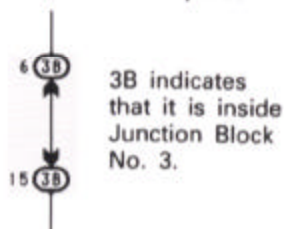


The first letter of the code for each wiring harness and wiring harness connector(s) indicates the component's location, e.g., "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

When more than one code has the first and second letters in common, followed by numbers (e.g., IH1, IH2), this indicates the same type of wiring harness and wiring harness connector.

- (H): Represents a part (all parts are shown in sky blue). The code is the same as the code used in parts position.
- (I): Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

Example:



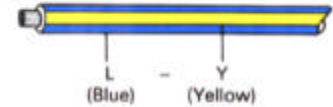
- (J): Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

|            |                  |            |
|------------|------------------|------------|
| B = Black  | L = Blue         | R = Red    |
| BR = Brown | LG = Light Green | V = Violet |
| G = Green  | O = Orange       | W = White  |
| GR = Gray  | P = Pink         | Y = Yellow |

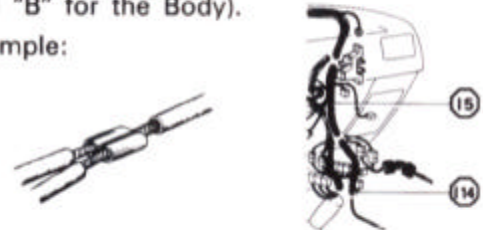
The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

Example: L - Y



- (K): Indicates a wiring Splice Point (Codes are "E" for the Engine Room, "I" for the Instrument Panel, and "B" for the Body).

Example:



The Location of Splice Point I 5 is indicated by the shaded section.

- (L): Page No.

- (M): Indicates a shielded cable.



- (N): Indicates a ground point.

The first letter of the code for each ground point(s) indicates the component's location, e.g., "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

- (O): Indicates the pin number of the connector. The numbering system is different for female and male connectors.

Example: Numbered in order from upper left to lower right      Numbered in order from upper right to lower left



- (P): When 2 parts both use one connector in common, the parts connector name used in the wire routing section is shown in square brackets [ ].



## B HOW TO USE THIS MANUAL

Q

### SYSTEM OUTLINE

WITH THE IGNITION SW TURNED ON, THE CURRENT FLOWS TO TERMINAL 3 OF THE POWER WINDOW MASTER SW, TERMINAL 2 OF THE POWER WINDOW CONTROL RELAY AND TERMINAL 8 OF THE POWER WINDOW SW THROUGH THE DOOR FUSE.

#### 1. DRIVER'S WINDOW "MANUAL UP" OPERATION BY MASTER SW

HOLDING MANUAL SW(DRIVER'S) ON "UP" POSITION LOCATED IN POWER WINDOW MASTER SW, THE CURRENT FLOWS TO TERMINAL 5 OF THE POWER WINDOW CONTROL RELAY THROUGH TERMINAL 3 OF THE MASTER SW → TERMINAL 2 TO OPERATE A POWER WINDOW CONTROL RELAY. THUS THE CURRENT INSIDE THE RELAY FLOWS FROM TERMINAL 2 OF THE RELAY → TERMINAL 1 → TERMINAL 2 OF THE POWER WINDOW MOTOR → TERMINAL 1 → TERMINAL 4 OF THE RELAY → TERMINAL 3 → TO GROUND. THE MOTOR TURNS TO ASCENT THE WINDOW. RELEASING THIS SW, THE ROTATION OF MOTOR IS STOPPED AND THE WINDOWS CAN STOP AT WILL POINT.

(FOR THE "MANUAL DOWN" OPERATION, CURRENT FLOWS IN THE REVERSE DIRECTION BECAUSE THE TERMINALS WHERE IT FLOWS ARE CHANGED).

#### 2. DRIVER'S WINDOW "AUTO DOWN" OPERATION BY MASTER SW

ONCE THE "AUTO DOWN" BUTTON OF THE MASTER SW IS PUSHED, THE CURRENT FLOWS TERMINAL 9 OF THE POWER WINDOW CONTROL RELAY THROUGH TERMINAL 3 OF THE MASTER SW → TERMINALS 8 AND 9 TO OPERATE THE RELAY. THUS THE CURRENT INSIDE THE POWER WINDOW CONTROL RELAY FLOWS FROM TERMINAL 2 OF THE RELAY → TERMINAL 4 → TERMINAL 1 OF THE POWER WINDOW MOTOR → TERMINAL 2 → TERMINAL 1 OF THE RELAY → TERMINAL 3 → TO GROUND. THE MOTOR CONTINUES THE ROTATION ENABLING TO DESCENT THE WINDOW.

THE WINDOW DESCENDS TO THE END POSITION, THE CURRENT WILL BE CUT OFF TO RELEASE THE AUTO DOWN FUNCTION BASED ON THE INCREASING CURRENT BETWEEN TERMINAL 2 OF THE RELAY AND TERMINAL 1 IN RELAY.

#### 3. DRIVER'S WINDOW AUTO DOWN RELEASE OPERATION BY MASTER SW

HOLDING THE MANUAL SW(DRIVER'S) ON "UP" POSITION IN OPERATING AUTO DOWN, THE CURRENT FROM TERMINAL 3 OF THE MASTER SW PASSING TERMINAL 2 FLOWS TERMINAL 5 OF THE RELAY AND RELEASES THE AUTO DOWN FUNCTION IN THE POWER WINDOW CONTROL RELAY. RELEASING THE HAND FROM SW, WINDOW STOPS AND CONTINUING ON TOUCHING SW, THE FUNCTION SWITCHES TO MANUAL UP OPERATION.

#### 4. PASSENGER'S WINDOW UP OPERATION(MASTER SW) AND WINDOW LOCK SW OPERATION

HOLDING PASSENGER'S WINDOW SW(MASTER SW) ON "UP", THE CURRENT FLOWS FROM TERMINAL 3 OF THE MASTER SW PASSING TERMINAL 6 TO TERMINAL 3 OF THE POWER WINDOW SW(PASSENGER'S) → TERMINAL 4 → TERMINAL 2 OF THE MOTOR → TERMINAL 1 → TERMINAL 9 OF THE POWER WINDOW SW → TERMINAL 7 → TERMINAL 1 OF THE MASTER SW → TERMINAL 4 TO GROUND. THE MOTOR RUNS TO ASCENT THE WINDOW. RELEASING THIS SW, THE ROTATION OF MOTOR IS STOPPED AND WINDOW CAN STOP AT WILL PLACE. SWITCHING THE WINDOW LOCK SW IN "LOCK" POSITION, THE CIRCUIT IS OPENED AND STOPPED THE MOTOR ROTATION.

(FOR THE DOWN OPERATION, CURRENT FLOWS IN THE REVERSE DIRECTION BECAUSE THE TERMINALS WHERE IT FLOWS ARE CHANGED).

R

### SERVICE HINTS

#### P2 POWER WINDOW CONTROL RELAY

3-GROUND: ALWAYS CONTINUITY

2-GROUND: APPROX. 12VOLTS WITH IGNITION SW AT ON POSITION

5-GROUND: APPROX. 12VOLTS WITH IGNITION SW AT ON POSITION AND MASTER SW AT UP POSITION

8-GROUND: APPROX. 12VOLTS WITH IGNITION SW AT ON POSITION AND MASTER SW AT AUTO DOWN POSITION

9-GROUND: APPROX. 12VOLTS WITH IGNITION SW AT ON POSITION AND MASTER SW AT DOWN OR AUTO DOWN POSITION

#### P4 POWER WINDOW MASTER SW

4-GROUND: ALWAYS CONTINUITY

3-GROUND: APPROX. 12VOLTS WITH IGNITION SW AT ON POSITION

#### WINDOW LOCK SW

OPEN WITH WINDOW LOCK SW AT LOCK POSITION

S

### ○ : PARTS LOCATION

| CODE | SEE PAGE | CODE | SEE PAGE | CODE | SEE PAGE |
|------|----------|------|----------|------|----------|
| P2   | 21       | P4   | 21       | P6   | 21       |
| P3   | 21       | P5   | 21       |      |          |

T

### ○ : RELAY BLOCKS

| CODE | SEE PAGE | RELAY BLOCK (RELAY BLOCK LOCATION)    |
|------|----------|---------------------------------------|
| 1    | 16       | R/B NO.1 (INSTRUMENT PANEL LEFT SIDE) |

U

### ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| CODE | SEE PAGE | JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION) |
|------|----------|------------------------------------------------------|
| 3B   | 14       | J/B NO.3 AND COWL WIRE (INSTRUMENT PANEL LEFT SIDE)  |

V

### □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| CODE | SEE PAGE | JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION) |
|------|----------|------------------------------------------------------------|
| ID1  | 26       | FRONT DOOR RH WIRE AND COWL WIRE (RIGHT KICK PANEL)        |
| IH1  | 26       | FRONT DOOR LH WIRE AND COWL WIRE (LEFT KICK PANEL)         |

W

### ▽ : GROUND POINTS

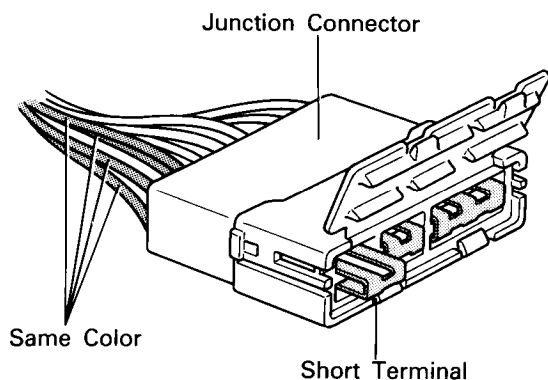
| CODE | SEE PAGE | GROUND POINT LOCATION |
|------|----------|-----------------------|
| IC   | 24       | COWL LEFT             |

X

### ○ : SPLICE POINTS

| CODE | SEE PAGE | WIRE HARNESSES WITH SPLICE POINTS |
|------|----------|-----------------------------------|
| IS   | 24       | COWL WIRE                         |

- Ⓚ: Explains the system outline.
- Ⓡ: Indicates values or explains the function for reference during troubleshooting.
- Ⓢ: Indicates the reference page showing the position on the vehicle of the parts in the system circuit.  
 Example: Part "P4" (Power Window Master SW) is on page 21 of the manual.  
 \* The letter in the code is from the first letter of the part, and the number indicates its order in parts starting with that letter.  
 Example: P4  
     └── Part is 4th in order  
     └── Power Window Master SW
- Ⓣ: Indicates the reference page showing the position on the vehicle of Relay Block Connectors in the system circuit.  
 Example: Connector "1" is described on page 16 of this manual and is installed on the left side of the instrument panel.
- Ⓤ: Indicates the reference page showing the position on the vehicle of J/B and Wire Harness in the system circuit.  
 Example: Connector "3B" connects the Cowl Wire and J/B No. 3. It is described on page 14 of this manual, and is installed on the instrument panel left side.
- Ⓥ: Indicates the reference page describing the wiring harness and wiring harness connector (the female wiring harness is shown first, followed by the male wiring harness).  
 Example: Connector "ID1" connects the front door RH wire (female) and cowl wire (male). It is described on page 26 of this manual, and is installed on the right side kick panel.
- Ⓦ: Indicates the reference page showing the position of the ground points on the vehicle.  
 Example: Ground point "IC" is described on page 24 of this manual and is installed on the cowl left side.
- Ⓧ: Indicates the reference page showing the position of the splice points on the vehicle.  
 Example: Splice point "I 5" is on the Cowl Wire Harness and is described on page 24 of this manual.

**HINT:**

Junction connector (code: J1 to J47) in this manual include a short terminal which is connected to a number of wire harnesses. Always perform inspection with the short terminal installed. (When installing the wire harnesses, the harnesses can be connected to any position within the short terminal grouping. Accordingly, in other vehicles, the same position in the short terminal may be connected to a wire harness from a different part.) Wire harness sharing the same short terminal grouping have the same color.



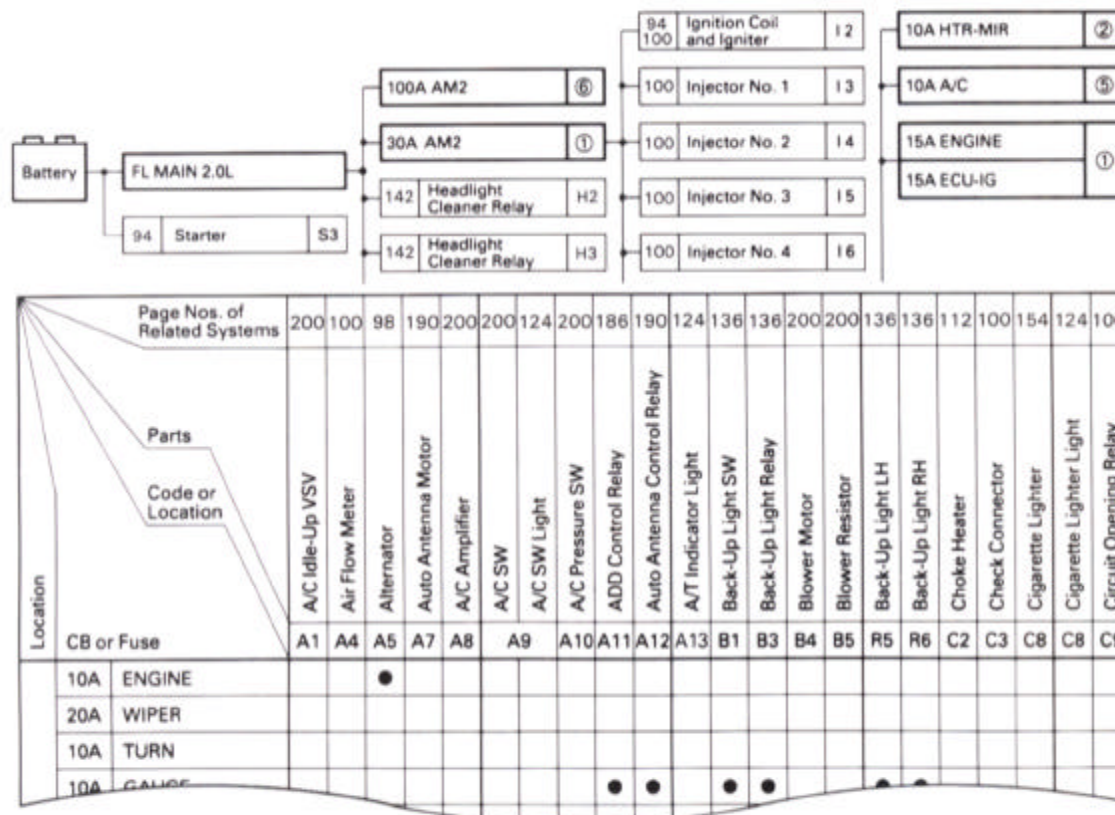
## B HOW TO USE THIS MANUAL

The "Current Flow Chart" section, describes which parts each power source (fuses, fusible links, and circuit breakers) transmits current to. In the Power Source circuit diagram, the conditions when battery power is supplied to each system are explained. Since all System Circuit diagrams start from the power source, the power source system must be fully understood.

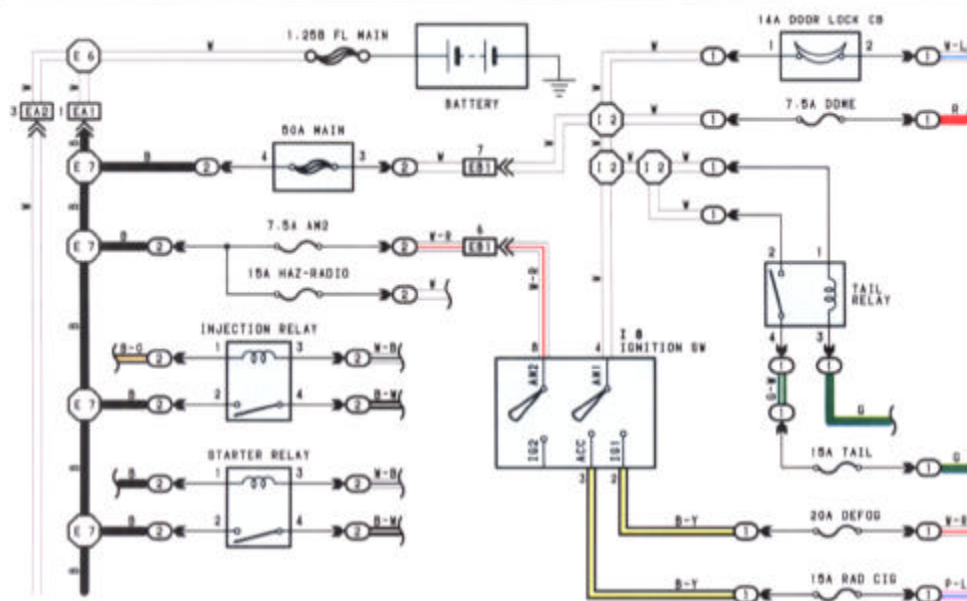
### H POWER SOURCE (Current Flow Chart)

The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other parts.

The next page and following pages shown the parts to which each electrical source outputs current.



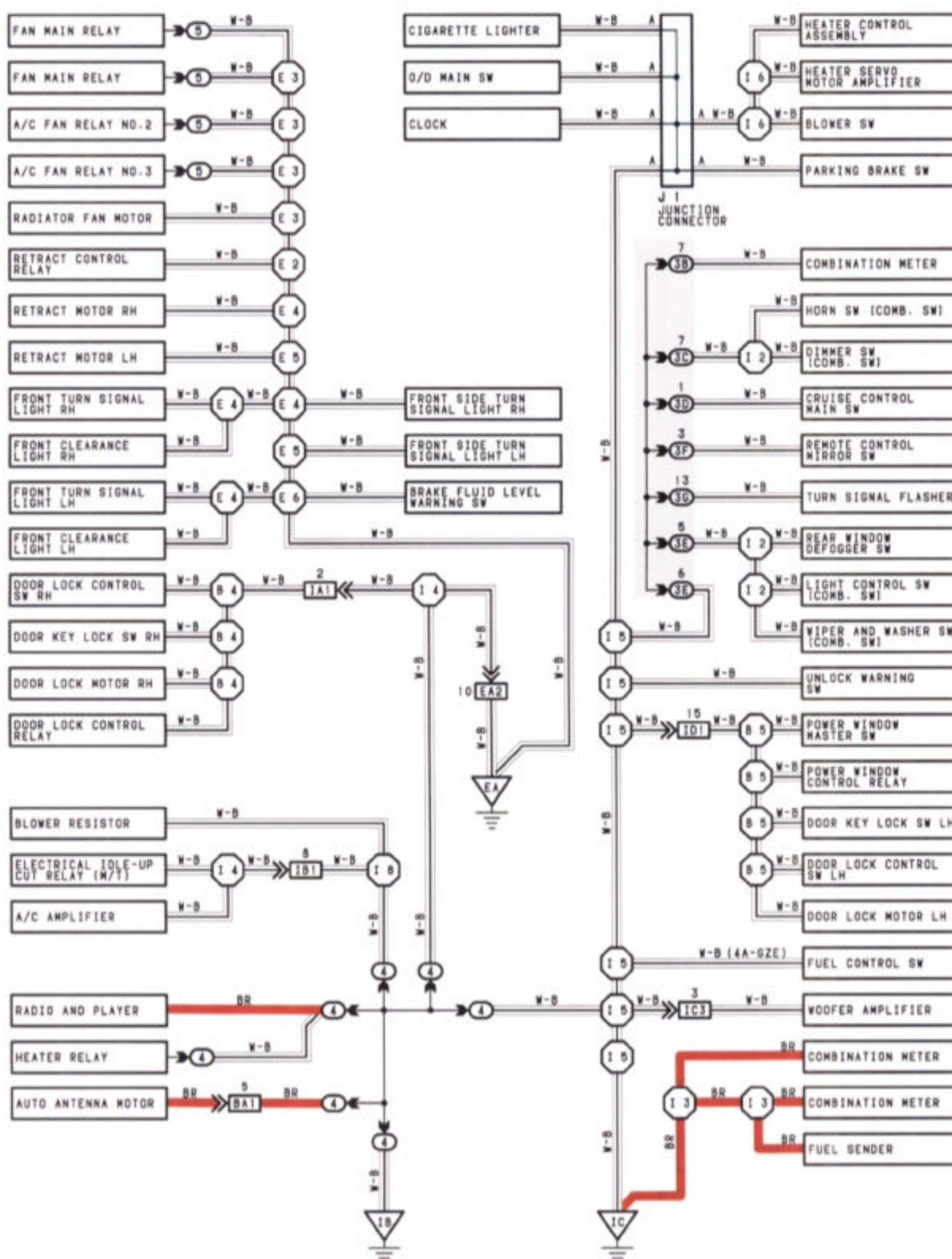
### POWER SOURCE



\* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

The ground points circuit diagram shows the connections from all major parts to the respective ground points. When troubleshooting a faulty ground point, checking the system circuits which use a common ground may help you identify the problem ground quickly. The relationship between ground points ( $\nabla_{EA}$ ,  $\nabla_{IB}$  and  $\nabla_{IC}$  shown below) can also be checked this way.

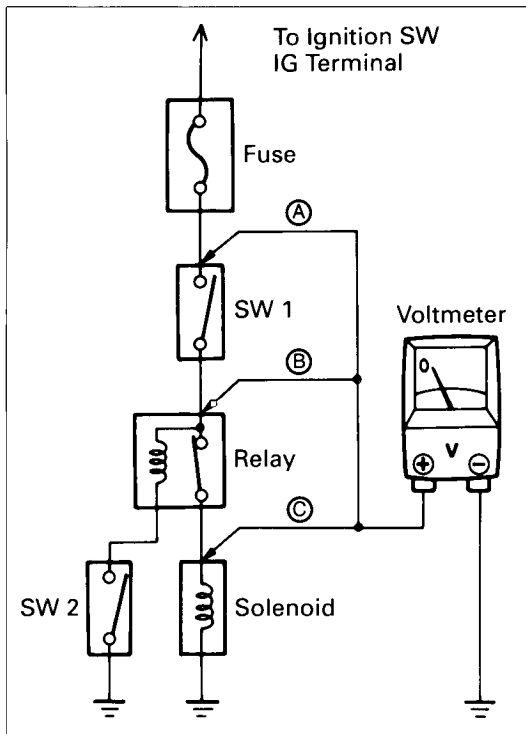
## J GROUND POINT



\* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.



## C TROUBLESHOOTING

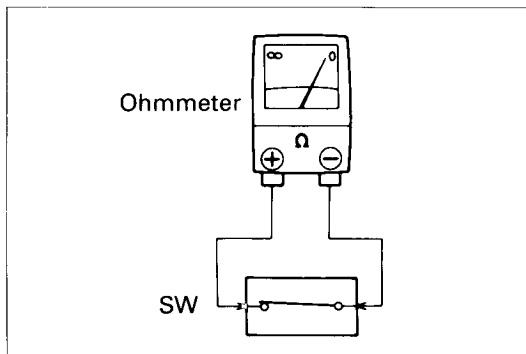


### VOLTAGE CHECK

- Establish conditions in which voltage is present at the check point.

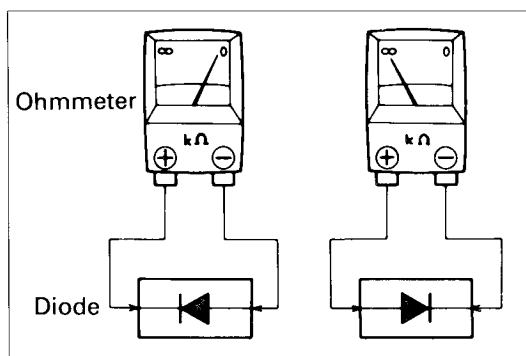
Example:

- Ⓐ – Ignition SW on
  - Ⓑ – Ignition SW and SW 1 on
  - Ⓒ – Ignition SW, SW 1 and Relay on (SW 2 off)
- Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal, and the positive lead to the connector or component terminal. This check can be done with a test light instead of a voltmeter.



### CONTINUITY AND RESISTANCE CHECK

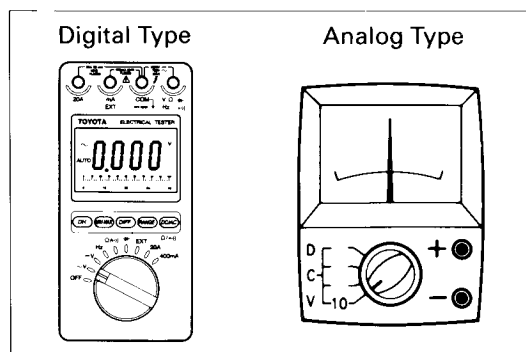
- Disconnect the battery terminal or wire so there is no voltage between the check points.
- Contact the two leads of an ohmmeter to each of the check points.



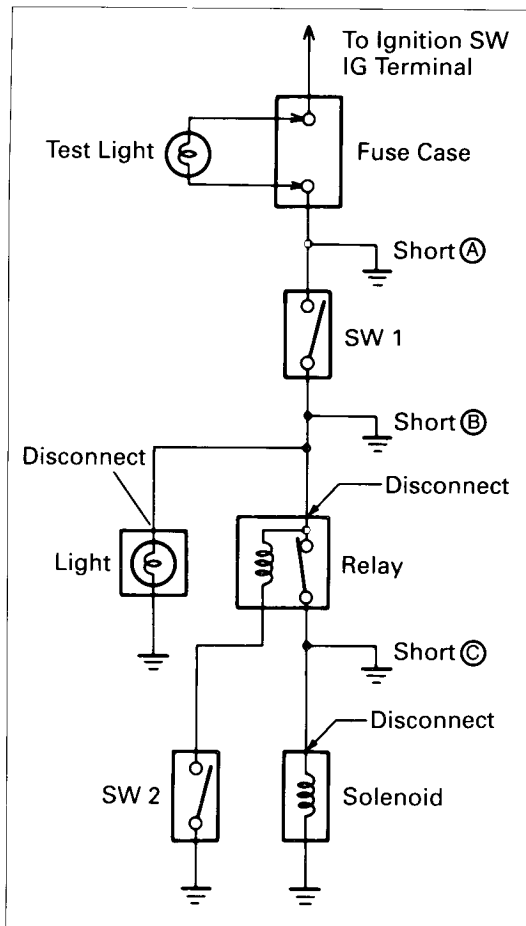
If the circuit has diodes, reverse the two leads and check again.

When contacting the negative lead to the diode positive side and the positive lead to the negative side, there should be continuity.

When contacting the two leads in reverse, there should be no continuity.



- Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting of the electrical circuit.



## FINDING A SHORT CIRCUIT

- Remove the blown fuse and disconnect all loads of the fuse.
- Connect a test light in place of the fuse.
- Establish conditions in which the test light comes on.

Example:

- Ignition SW on
  - Ignition SW and SW 1 on
  - Ignition SW, SW 1 and Relay on (Connect the Relay) and SW 2 off (or Disconnect SW 2)
- Disconnect and reconnect the connectors while watching the test light. The short lies between the connector where the test light stays lit and the connector where the light goes out.
  - Find the exact location of the short by lightly shaking the problem wire along the body.

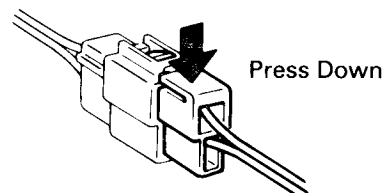
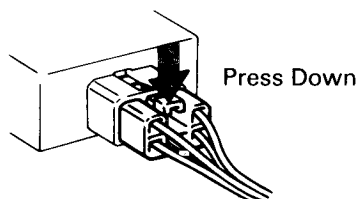
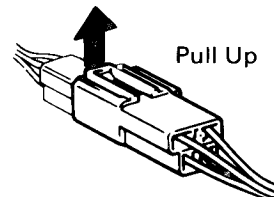
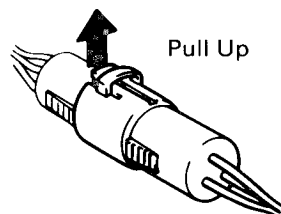
### CAUTION:

Do not open the cover or the case of the ECU unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)

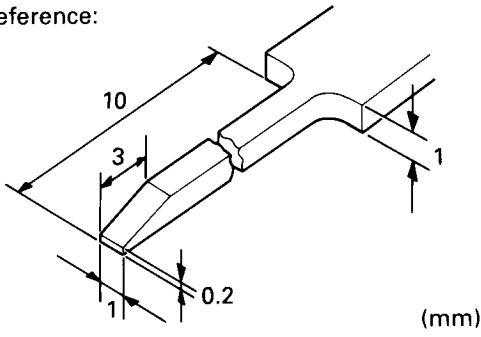
## DISCONNECTION OF MALE AND FEMALE CONNECTORS

To pull apart the connectors, pull on the connector itself, not the wire harness.

HINT: Check to see what kind of connector you are disconnecting before pulling apart.



Reference:



## HOW TO REPLACE TERMINAL (with terminal retainer or secondary locking device)

### 1. PREPARE THE SPECIAL TOOL

HINT: To remove the terminal from the connector, please construct and use the special tool or like object shown on the left.

### 2. DISCONNECT CONNECTOR

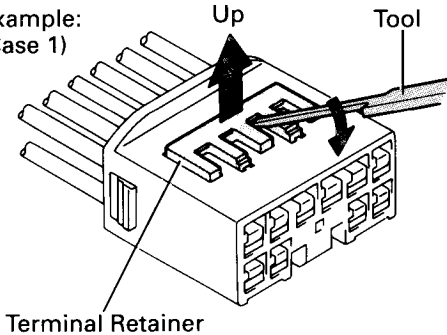
### 3. DISENGAGE THE SECONDARY LOCKING DEVICE OR TERMINAL RETAINER.

- (a) Locking device must be disengaged before the terminal locking clip can be released and the terminal removed from the connector.
- (b) Use a special tool or the terminal pick to unlock the secondary locking device or terminal retainer.

#### NOTICE:

**Do not remove the terminal retainer from connector body.**

Example:  
(Case 1)



#### Ⓐ For Non-Waterproof Type Connector

HINT: The needle insertion position varies according to the connector's shape (number of terminals etc.), so check the position before inserting it.

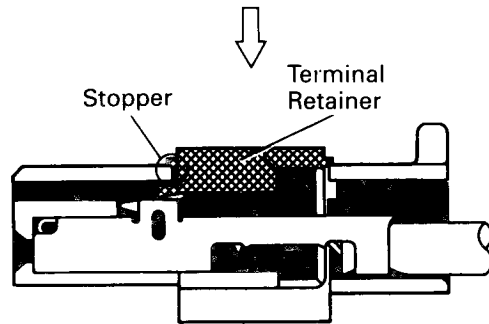
#### "Case 1"

Raise the terminal retainer up to the temporary lock position.

#### "Case 2"

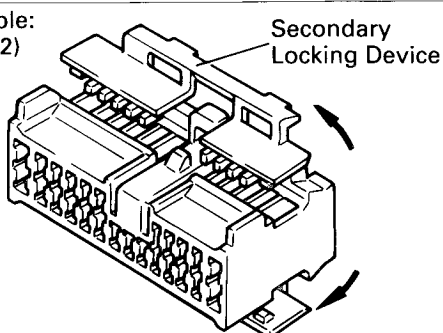
Open the secondary locking device.

[Retainer at Full Lock Position]

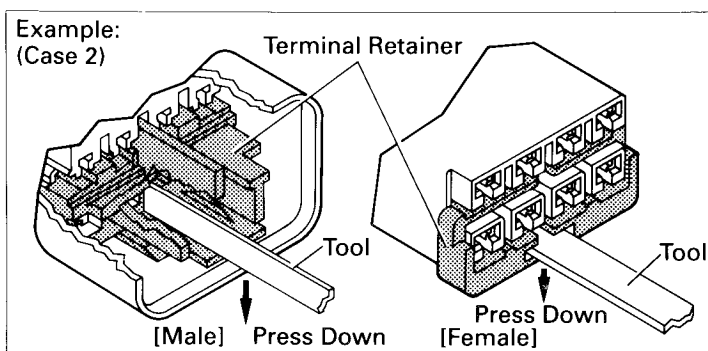
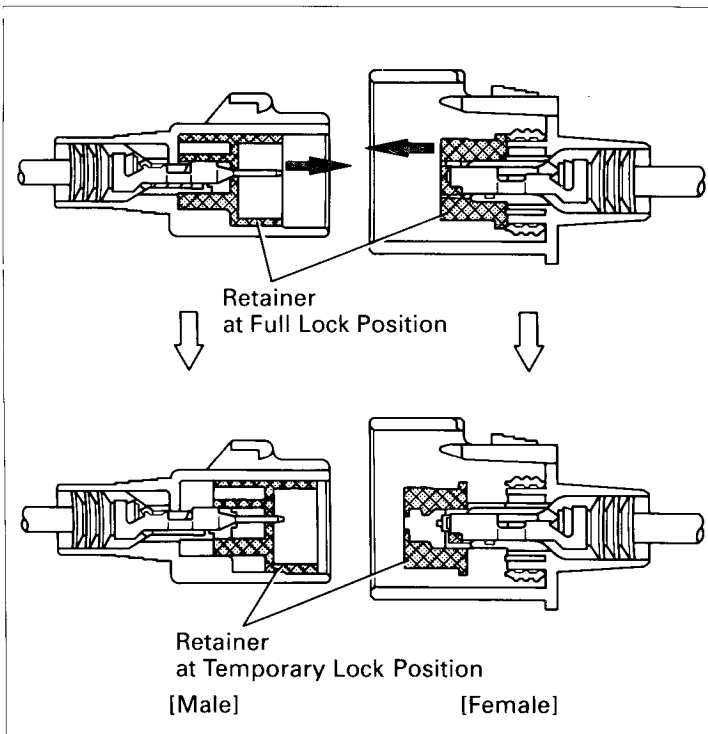
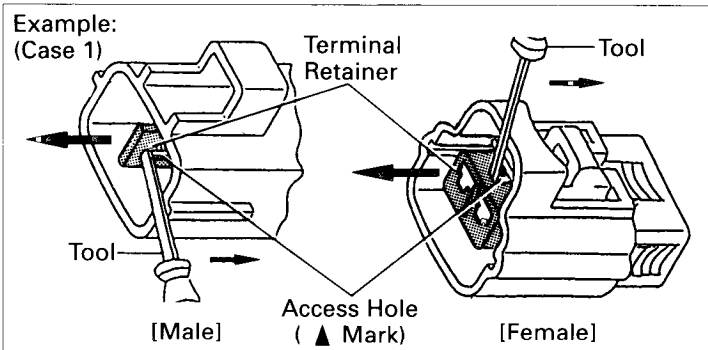
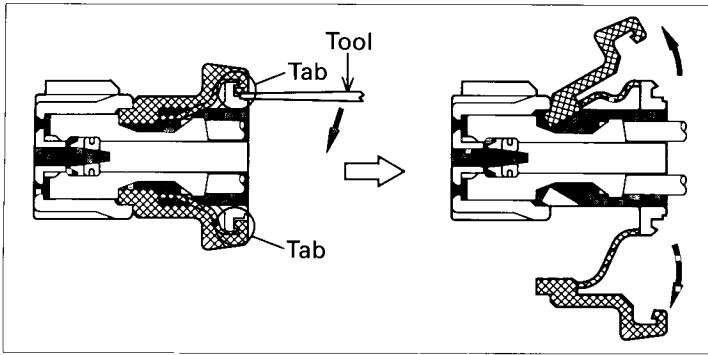


[Retainer at Temporary Lock Position]

Example:  
(Case 2)







## ② For Waterproof Type Connector

HINT: Terminal retainer color is different according to connector body.

Example:

| Terminal Retainer | Connector Body |
|-------------------|----------------|
| Black or White    | : Gray         |
| Black or White    | : Dark Gray    |
| Gray or White     | : Black        |

### "Case 1"

Type where terminal retainer is pulled up to the temporary lock position (Pull Type).

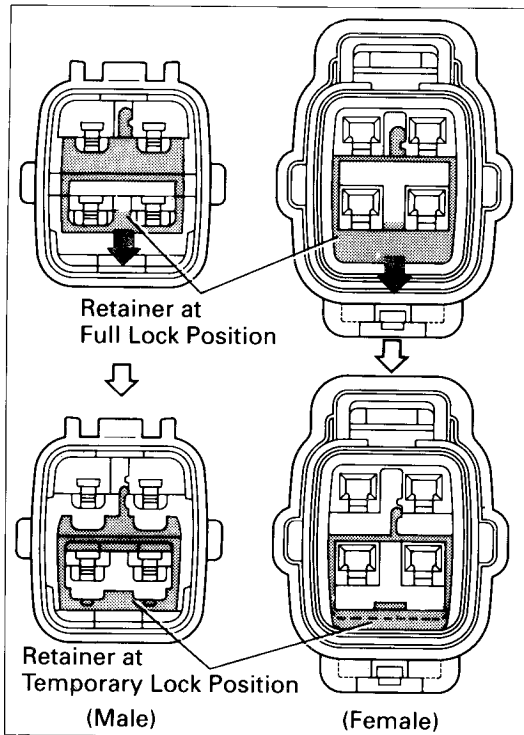
Insert the special tool into the terminal retainer access hole (▲ Mark) and pull the terminal retainer up to the temporary lock position.

HINT: The needle insertion position varies according to the connector's shape (Number of terminals etc.), so check the position before inserting it.

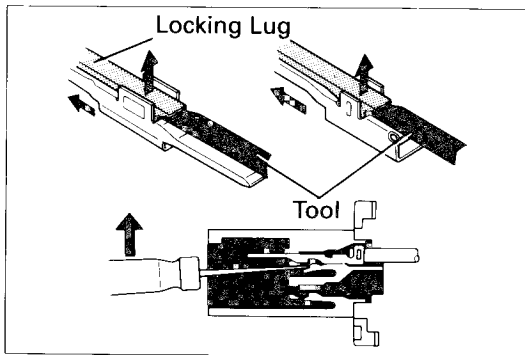
### "Case 2"

Type which cannot be pulled as far as Power Lock insert the tool straight into the access hole of terminal retainer as shown.

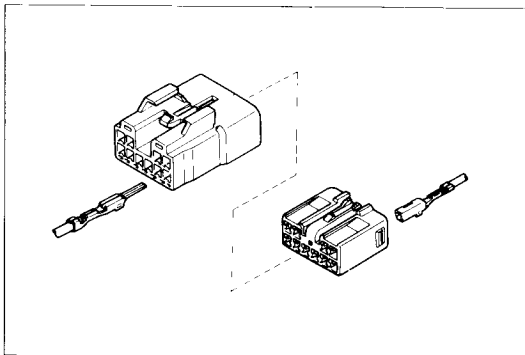
## C TROUBLESHOOTING



Push the terminal retainer down to the temporary lock position.



- (c) Release the locking lug from terminal and pull the terminal out from rear.

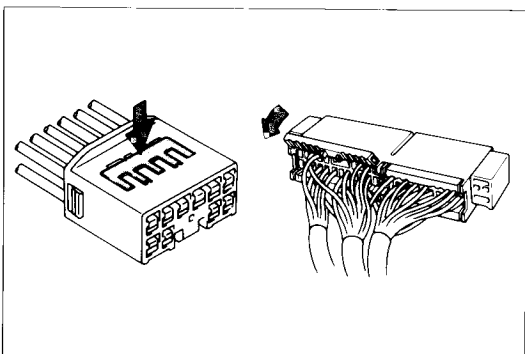


### 4. INSTALL TERMINAL TO CONNECTOR

- (a) Insert the terminal.

#### HINT:

1. Make sure the terminal is positioned correctly.
2. Insert the terminal until the locking lug locks firmly.
3. Insert the terminal with terminal retainer in the temporary lock position.



- (b) Push the secondary locking device or terminal retainer in to the full lock position.

### 5. CONNECT CONNECTOR

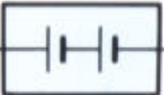
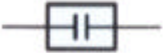
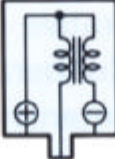
## ABBREVIATIONS

The following abbreviations are used in this manual.

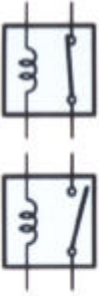
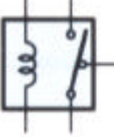
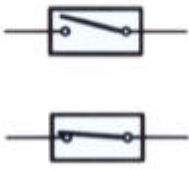
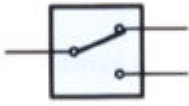
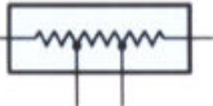
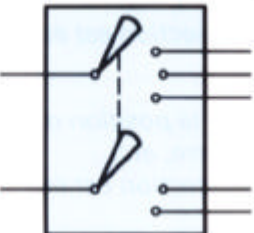
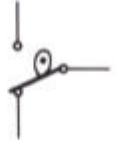
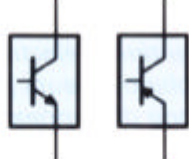
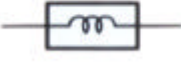
|        |                                                  |
|--------|--------------------------------------------------|
| ABS    | = Anti-Lock Brake System                         |
| A/C    | = Air Conditioner                                |
| ACIS   | = Acoustic Control Induction System              |
| A/T    | = Automatic Transmission                         |
| CD     | = Compact Disc                                   |
| COMB.  | = Combination                                    |
| EC     | = Electrochromic                                 |
| ECT    | = Electronically Controlled Transmission         |
| ECU    | = Electronic Control Unit                        |
| EFI    | = Electronic Fuel Injection                      |
| ESA    | = Electronic Spark Advance                       |
| ETCS-i | = Electronic Throttle Control System Intelligent |
| EVAP   | = Evaporative Emission                           |
| G.C.C. | = Gulf Cooperation Council                       |
| HID    | = High Intensity Discharge                       |
| IC     | = Integrated Circuit                             |
| J/B    | = Junction Block                                 |
| LED    | = Light Emitting Diode                           |
| LH     | = Left-Hand                                      |
| LHD    | = Left-Hand Drive                                |
| MPX    | = Multiplex                                      |
| O/D    | = Overdrive                                      |
| PPS    | = Progressive Power Steering                     |
| R/B    | = Relay Block                                    |
| RH     | = Right-Hand                                     |
| RHD    | = Right-Hand Drive                               |
| SRS    | = Supplemental Restraint System                  |
| SW     | = Switch                                         |
| TEMP.  | = Temperature                                    |
| TRC    | = Traction Control                               |
| VSC    | = Vehicle Stability Control                      |
| VSV    | = Vacuum Switching Valve                         |
| w/     | = With                                           |
| w/o    | = Without                                        |

\*The titles given inside the components are the names of the terminals (terminal codes) and are not treated as being abbreviations.

# E GLOSSARY OF TERMS AND SYMBOLS

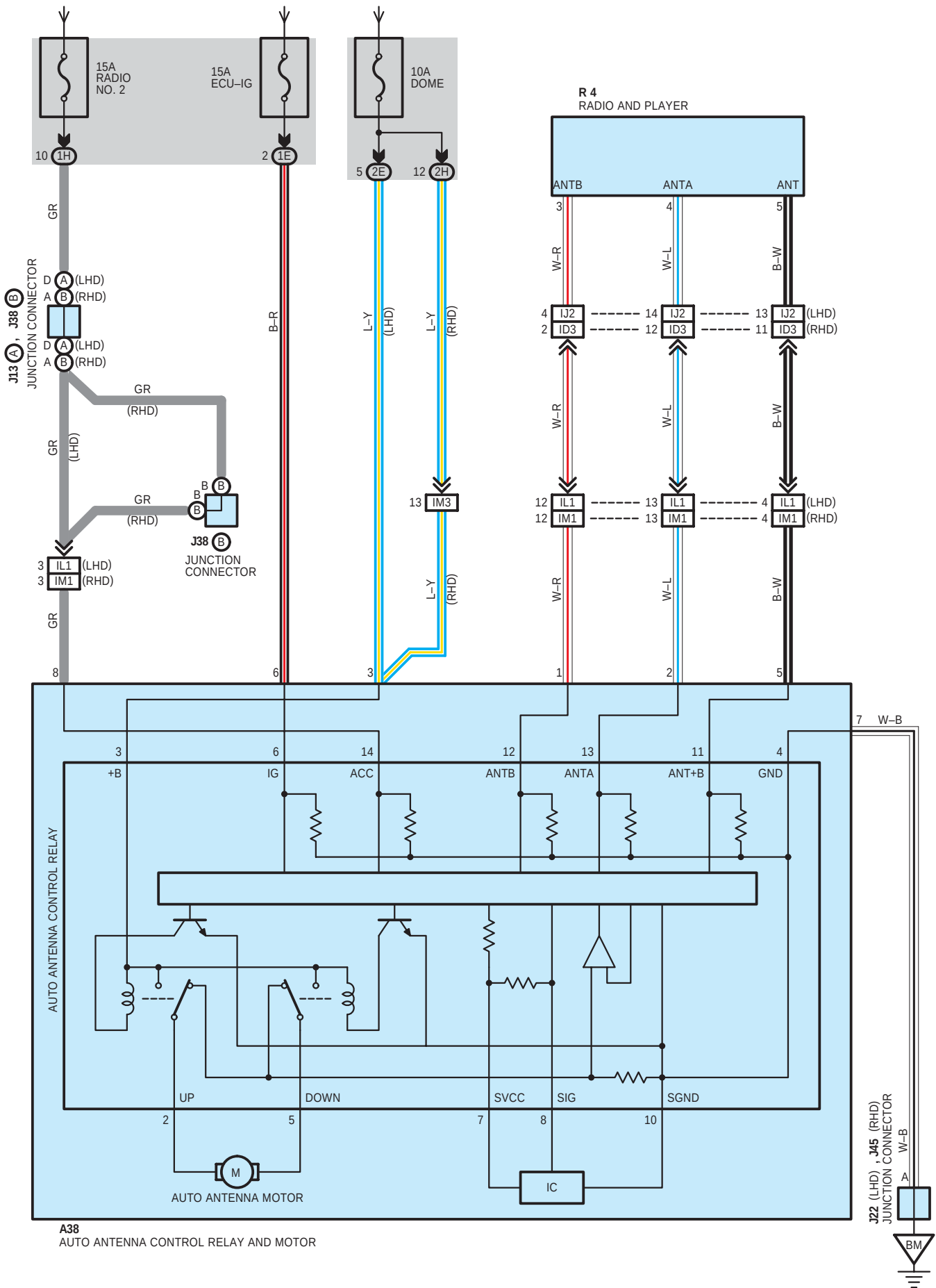
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>BATTERY</b><br/>Stores chemical energy and converts it into electrical energy. Provides DC current for the auto's various electrical circuits.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p><b>HEADLIGHTS</b></p> <p>1. <b>SINGLE FILAMENT</b></p> <p>Current flow causes a headlight filament to heat up and emit light. A headlight may have either a single (1) filament or a double (2) filament.</p>  <p>2. <b>DOUBLE FILAMENT</b></p>  |
| <p><b>CAPACITOR (Condenser)</b><br/>A small holding unit for temporary storage of electrical voltage.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p><b>CIGARETTE LIGHTER</b><br/>An electric resistance heating element.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p><b>HORN</b><br/>An electric device which sounds a loud audible signal.</p>                                                                                                                                                                                                                                                        |
| <p><b>CIRCUIT BREAKER</b><br/>Basically a reusable fuse, a circuit breaker will heat and open if too much current flows through it. Some units automatically reset when cool, others must be manually reset.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p><b>IGNITION COIL</b><br/>Converts low-voltage DC current into high-voltage ignition current for firing the spark plugs.</p>                                                                                                                                                                                                       |
| <p><b>DIODE</b><br/>A semiconductor which allows current flow in only one direction.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p><b>DIODE, ZENER</b></p>  <p>A diode which allows current flow in one direction but blocks reverse flow only up to a specific voltage. Above that potential, it passes the excess voltage. This acts as a simple voltage regulator.</p>                                                                                                                                                                                                                                                                                                                                                                                                              | <p><b>LIGHT</b><br/>Current flow through a filament causes the filament to heat up and emit light.</p>                                                                                                                                                                                                                             |
| <p><b>DISTRIBUTOR, IIA</b><br/>Channels high-voltage current from the ignition coil to the individual spark plugs.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p><b>LED (LIGHT EMITTING DIODE)</b><br/>Upon current flow, these diodes emit light without producing the heat of a comparable light.</p>                                                                                                                                                                                          |
| <p><b>FUSE</b><br/>A thin metal strip which burns through when too much current flows through it, thereby stopping current flow and protecting a circuit from damage.</p>  <p><b>FUSIBLE LINK</b><br/>A heavy-gauge wire placed in high amperage circuits which burns through on overloads, thereby protecting the circuit. The numbers indicate the cross-section surface area of the wires.</p>  <p>(for Medium Current Fuse)</p>  <p>(for High Current Fuse or Fusible Link)</p> | <p><b>METER, ANALOG</b><br/>Current flow activates a magnetic coil which causes a needle to move, thereby providing a relative display against a background calibration.</p>                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p><b>METER, DIGITAL</b><br/>Current flow activates one or many LED's, LCD's, or fluorescent displays, which provide a relative or digital display.</p>                                                                                                                                                                            |
| <p><b>GROUND</b><br/>The point at which wiring attaches to the Body, thereby providing a return path for an electrical circuit; without a ground, current cannot flow.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p><b>MOTOR</b><br/>A power unit which converts electrical energy into mechanical energy, especially rotary motion.</p>                                                                                                                                                                                                            |



|                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>RELAY</b></p>  <p>1. <b>NORMALLY CLOSED</b></p> <p>2. <b>NORMALLY OPEN</b></p> <p>Basically, an electrically operated switch which may be normally closed (1) or open (2). Current flow through a small coil creates a magnetic field which either opens or closes an attached switch.</p> | <p><b>SPEAKER</b></p>  <p>An electromechanical device which creates sound waves from current flow.</p>                                                                                                                                                                                                                                                                                                                      |
| <p><b>RELAY, DOUBLE THROW</b></p>  <p>A relay which passes current through one set of contacts or the other.</p>                                                                                                                                                                                 | <p><b>SWITCH, MANUAL</b></p>  <p>1. <b>NORMALLY OPEN</b></p> <p>2. <b>NORMALLY CLOSED</b></p> <p>Opens and closes circuits, thereby stopping (1) or allowing (2) current flow.</p>                                                                                                                                                                                                                                         |
| <p><b>RESISTOR</b></p>  <p>An electrical component with a fixed resistance, placed in a circuit to reduce voltage to a specific value.</p>                                                                                                                                                       | <p><b>SWITCH, DOUBLE THROW</b></p>  <p>A switch which continuously passes current through one set of contacts or the other.</p>                                                                                                                                                                                                                                                                                            |
| <p><b>RESISTOR, TAPPED</b></p>  <p>A resistor which supplies two or more different non adjustable resistance values.</p>                                                                                                                                                                        | <p><b>SWITCH, IGNITION</b></p>  <p>A key operated switch with several positions which allows various circuits, particularly the primary ignition circuit, to become operational.</p>                                                                                                                                                                                                                                      |
| <p><b>RESISTOR, VARIABLE or RHEOSTAT</b></p>  <p>A controllable resistor with a variable rate of resistance. Also called a potentiometer or rheostat.</p>                                                                                                                                      | <p><b>SWITCH, WIPER PARK</b></p>  <p>Automatically returns wipers to the stop position when the wiper switch is turned off.</p>                                                                                                                                                                                                                                                                                          |
| <p><b>SENSOR (Thermistor)</b></p>  <p>A resistor which varies its resistance with temperature.</p>                                                                                                                                                                                             | <p><b>TRANSISTOR</b></p>  <p>A solidstate device typically used as an electronic relay; stops or passes current depending on the voltage applied at "base".</p>                                                                                                                                                                                                                                                          |
| <p><b>SENSOR, SPEED</b></p>  <p>(Reed Switch Type)</p> <p>Uses magnetic impulses to open and close a switch to create a signal for activation of other components.</p>                                                                                                                         | <p><b>WIRES</b></p> <p>(1) <b>NOT CONNECTED</b></p>  <p>(2) <b>SPliced</b></p>  <p>Wires are always drawn as straight lines on wiring diagrams. Crossed wires (1) without a black dot at the junction are not joined; crossed wires (2) with a black dot or octagonal (O) mark at the junction are spliced (joined) connections.</p> |
| <p><b>SHORT PIN</b></p>  <p>Used to provide an unbroken connection within a junction block.</p>                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p><b>SOLENOID</b></p>  <p>An electromagnetic coil which forms a magnetic field when current flows, to move a plunger, etc.</p>                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

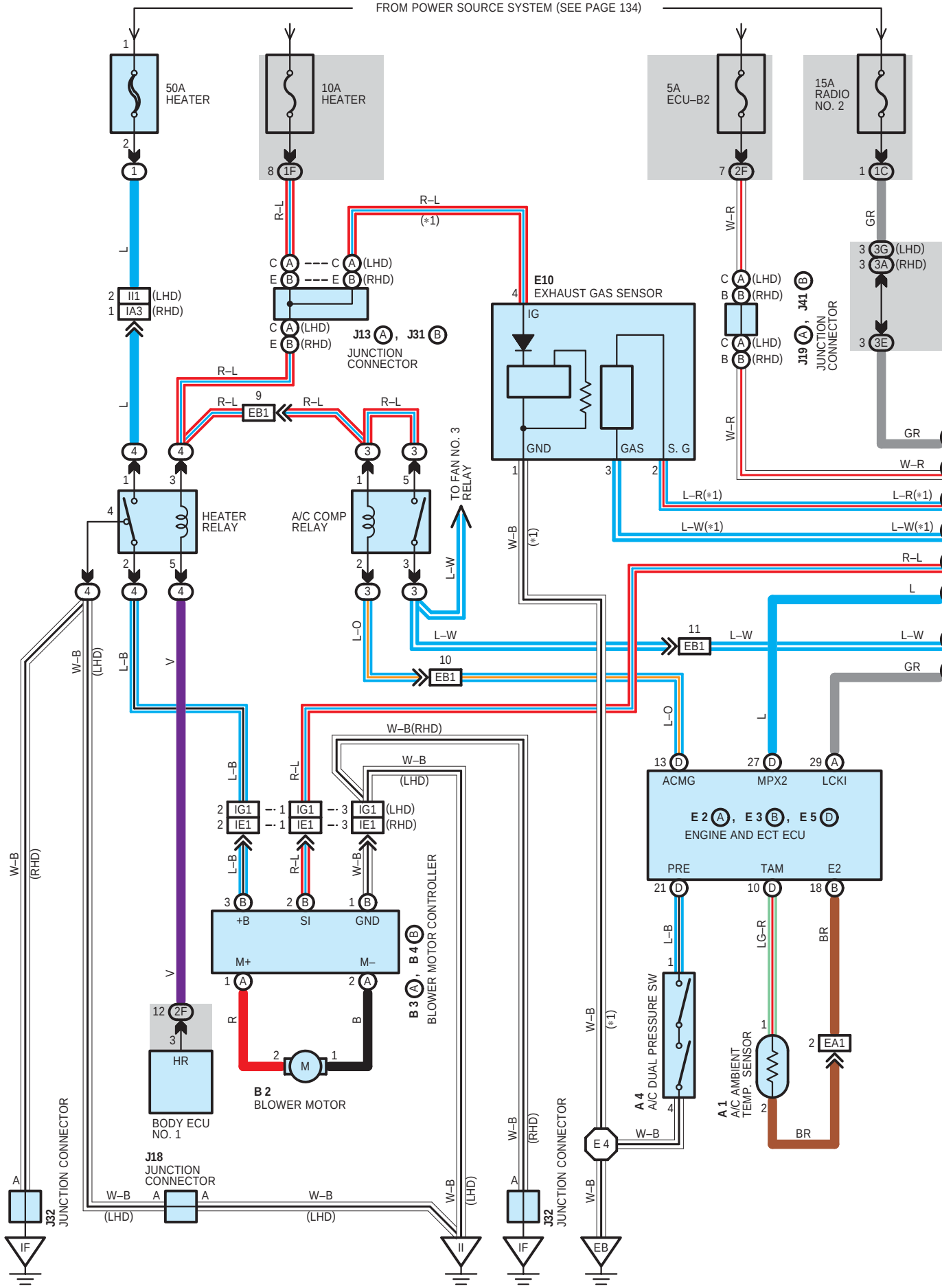
# AUTO ANTENNA

FROM POWER SOURCE SYSTEM (SEE PAGE 134)

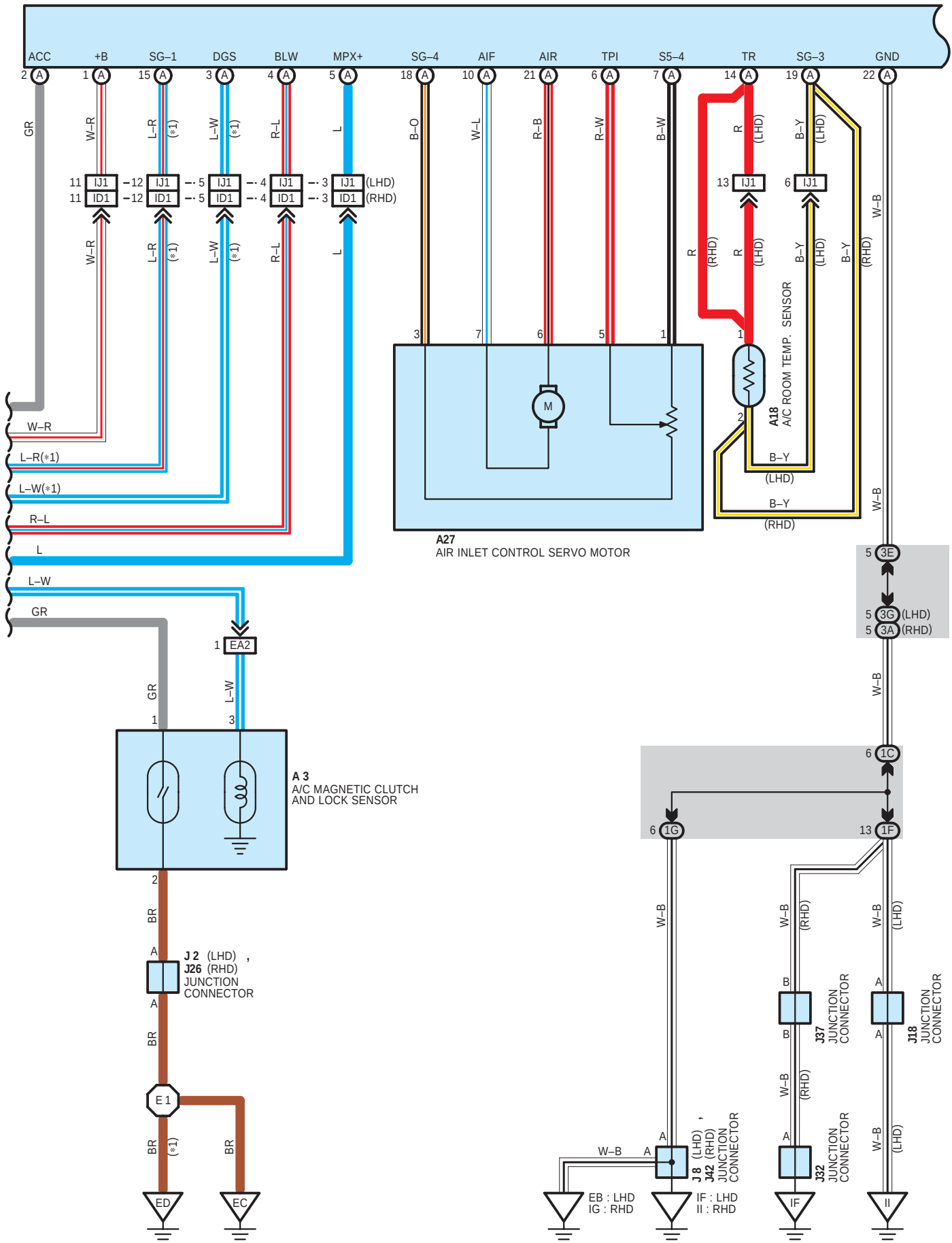


# AUTOMATIC AIR CONDITIONER

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



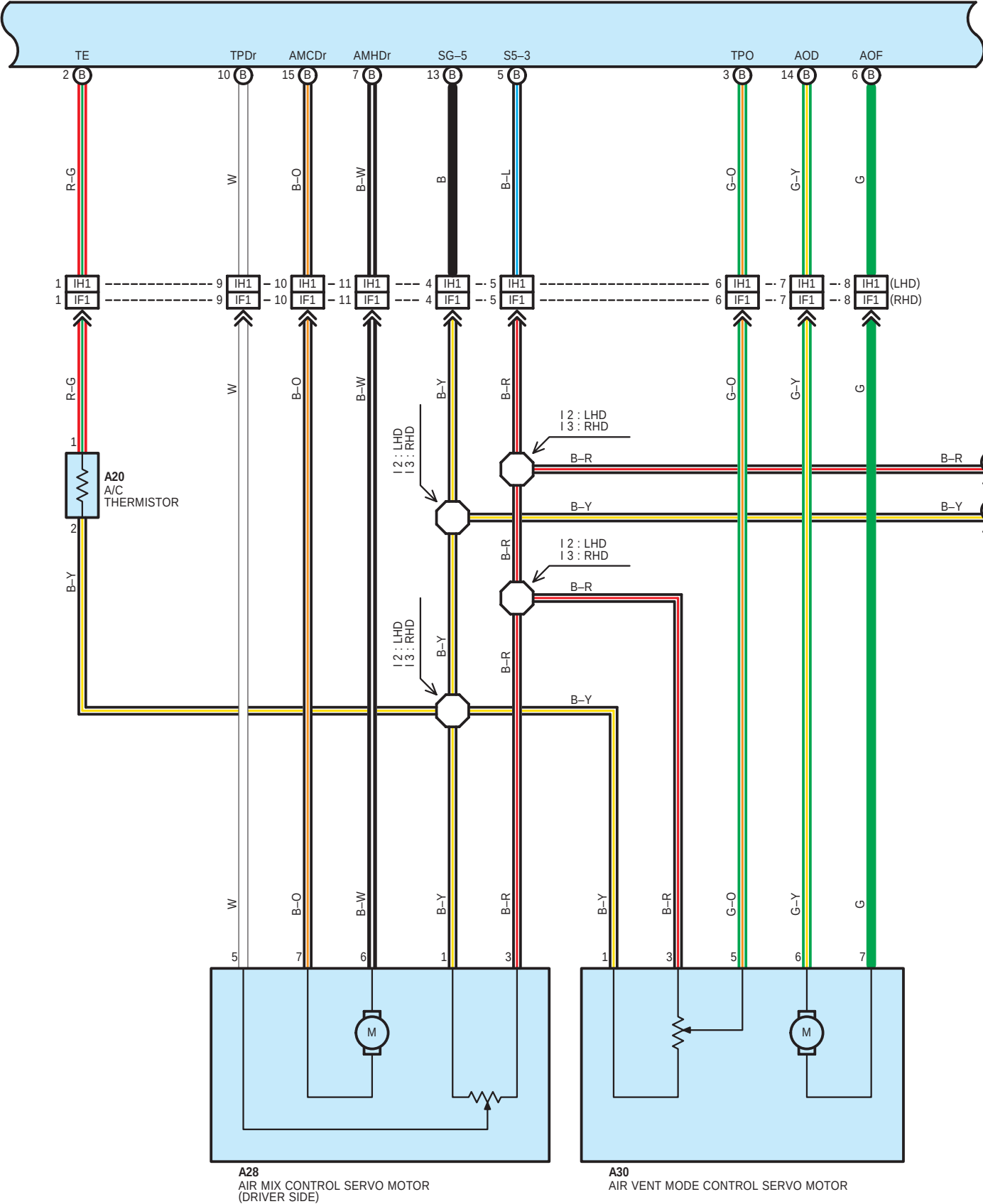
A16 (A), A17 (B)  
A/C CONTROL ASSEMBLY



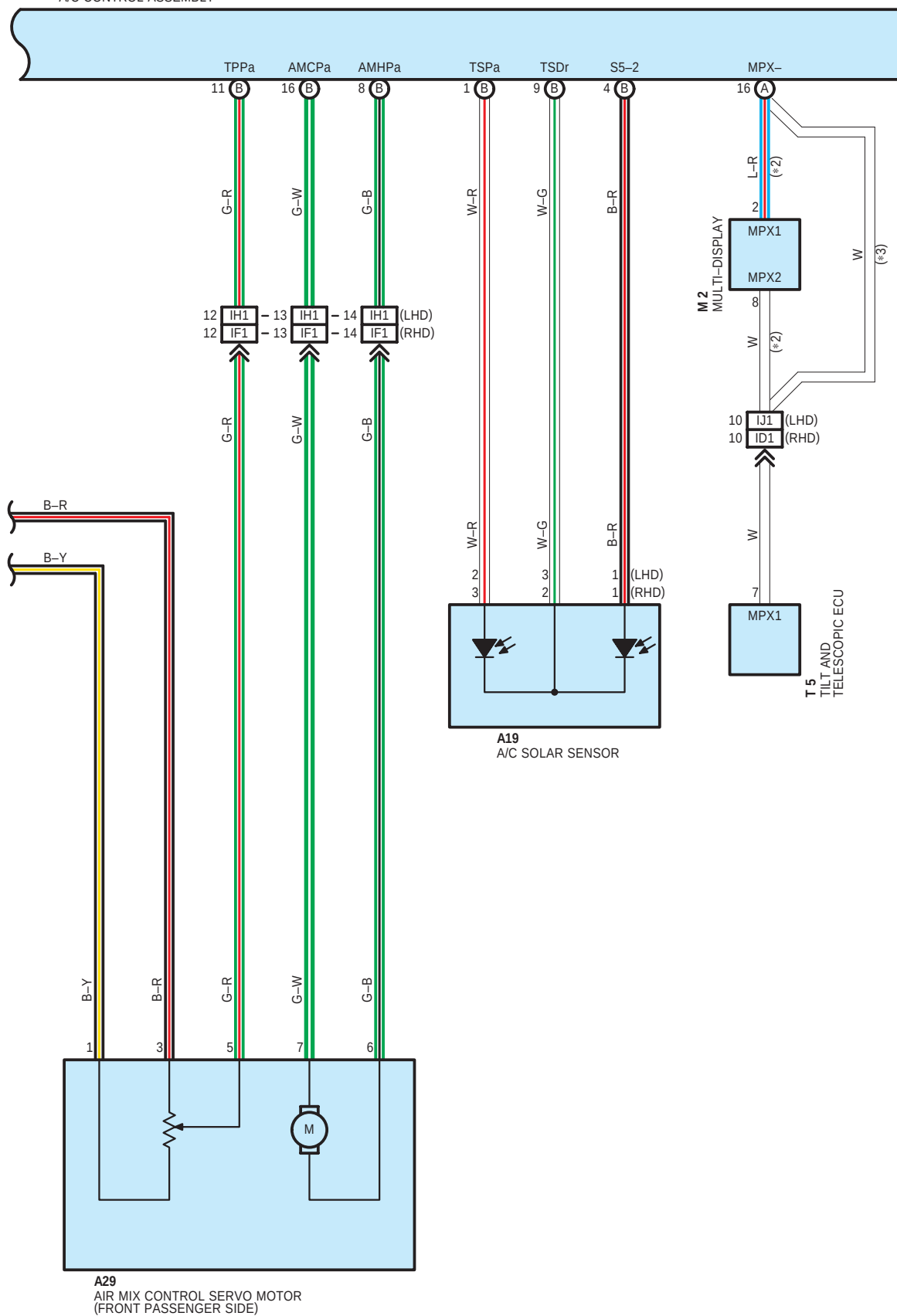


AUTOMATIC AIR CONDITIONER

A16 (A), A17 (B)  
A/C CONTROL ASSEMBLY

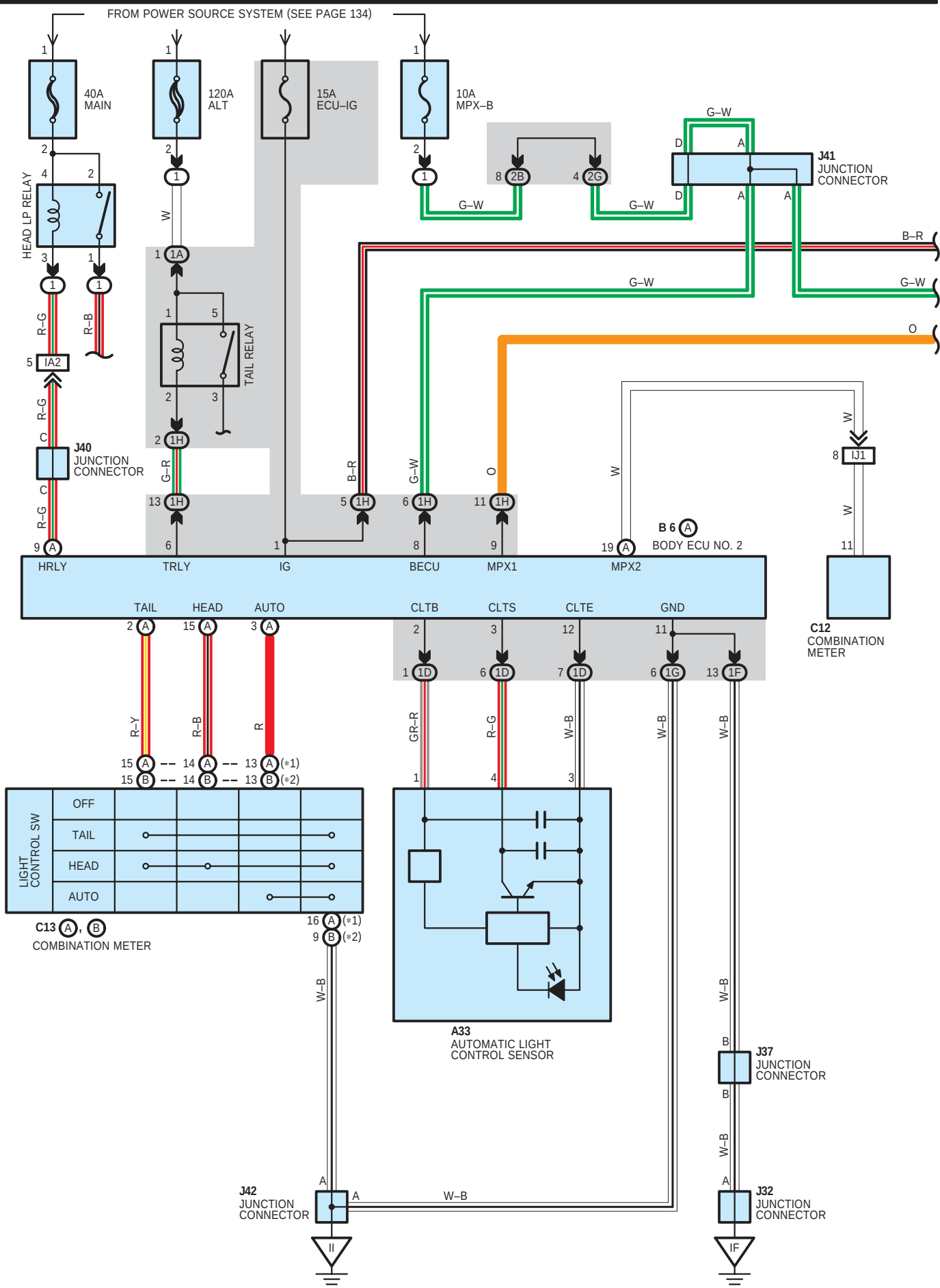


A16 (A), A17 (B)  
 A/C CONTROL ASSEMBLY

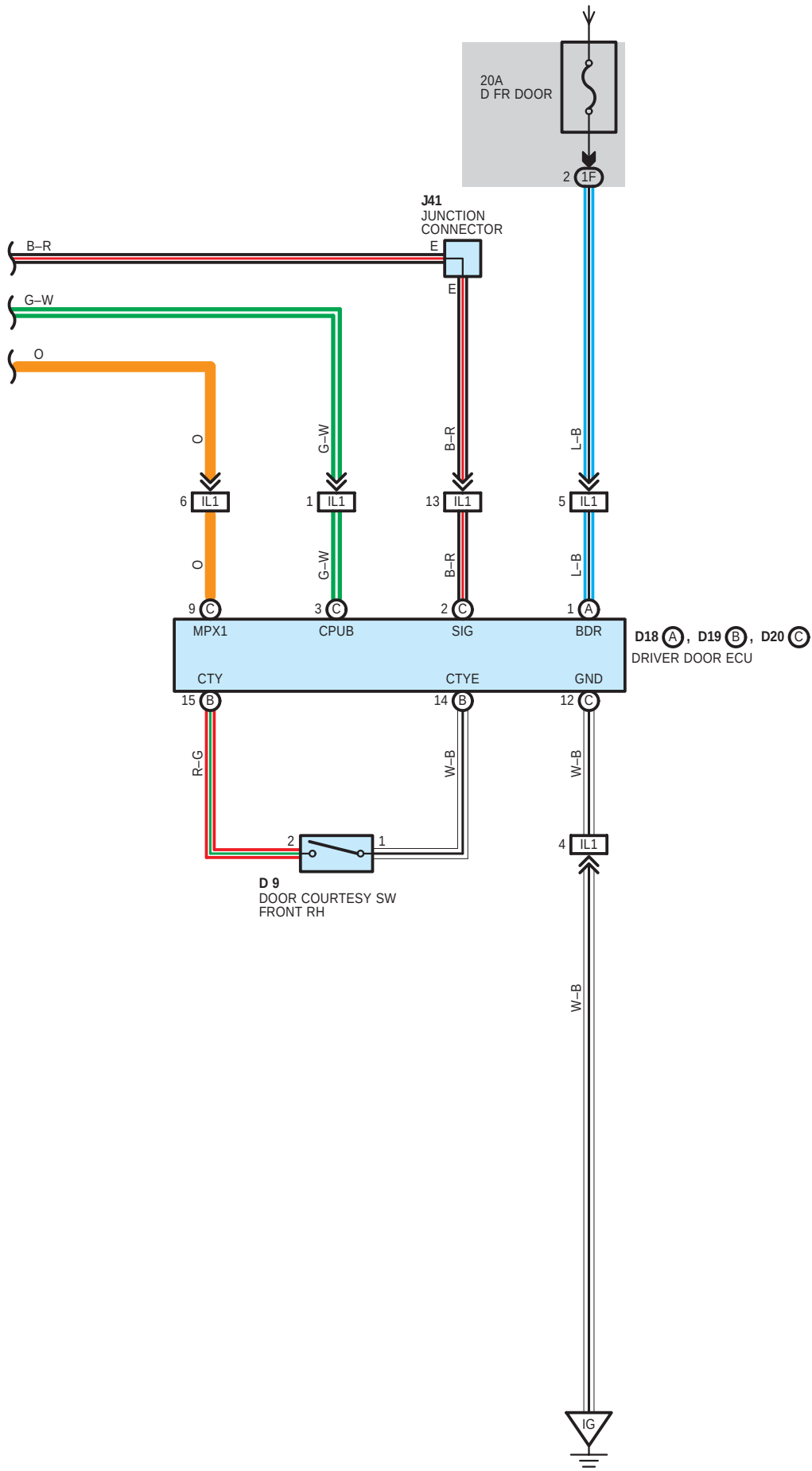


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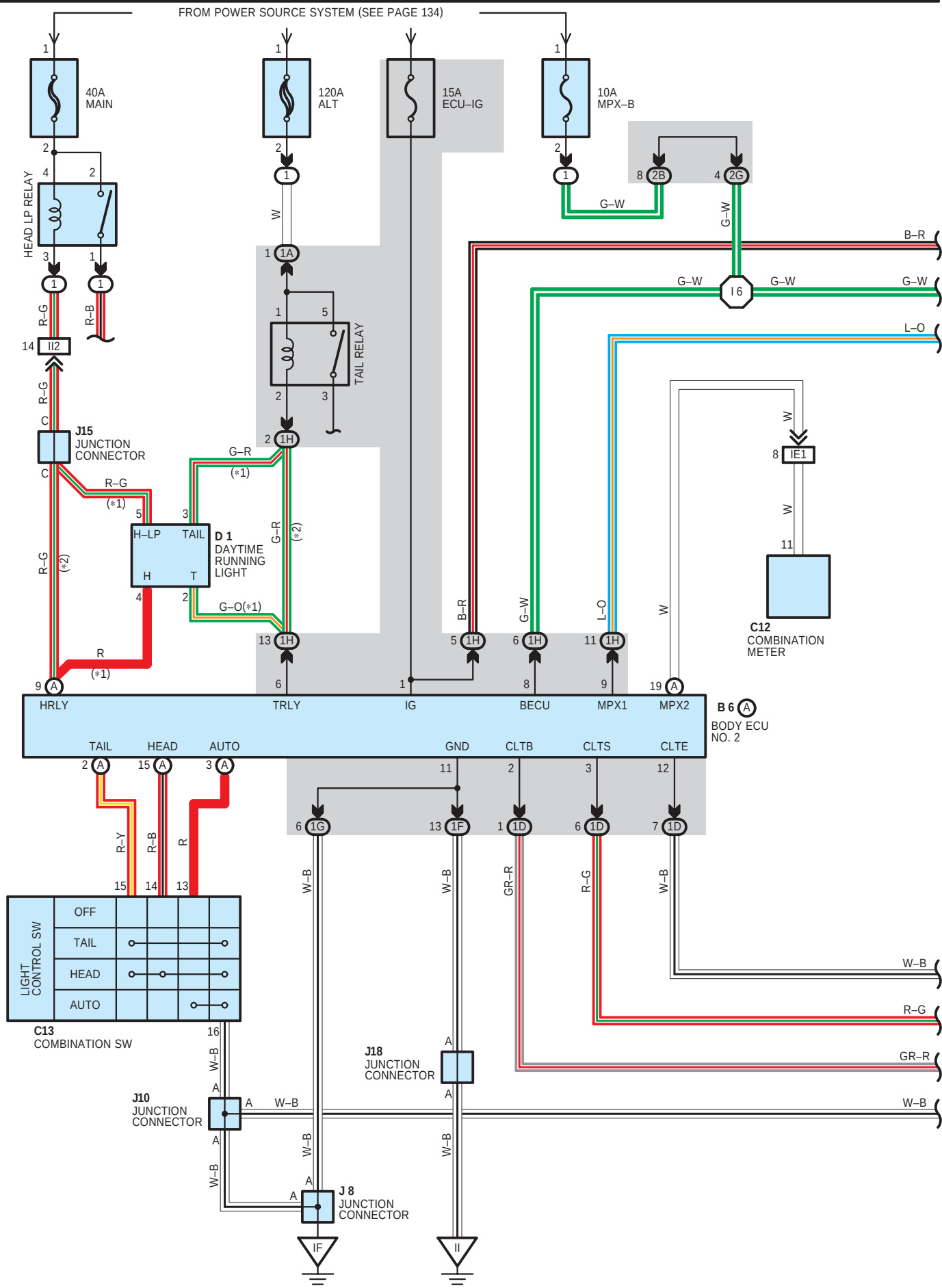


FROM POWER SOURCE SYSTEM (SEE PAGE 134)

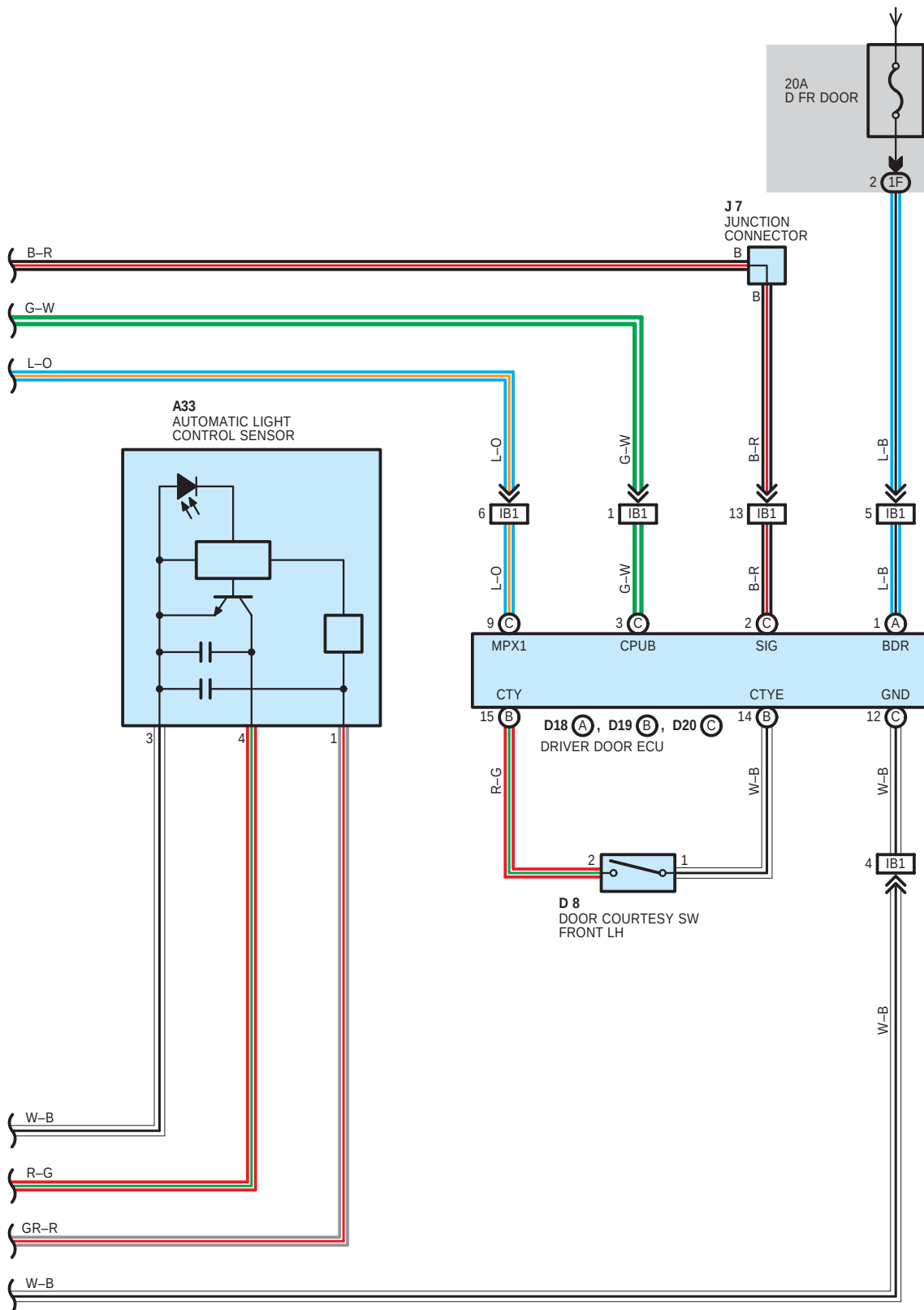




# AUTOMATIC LIGHT CONTROL (LHD)

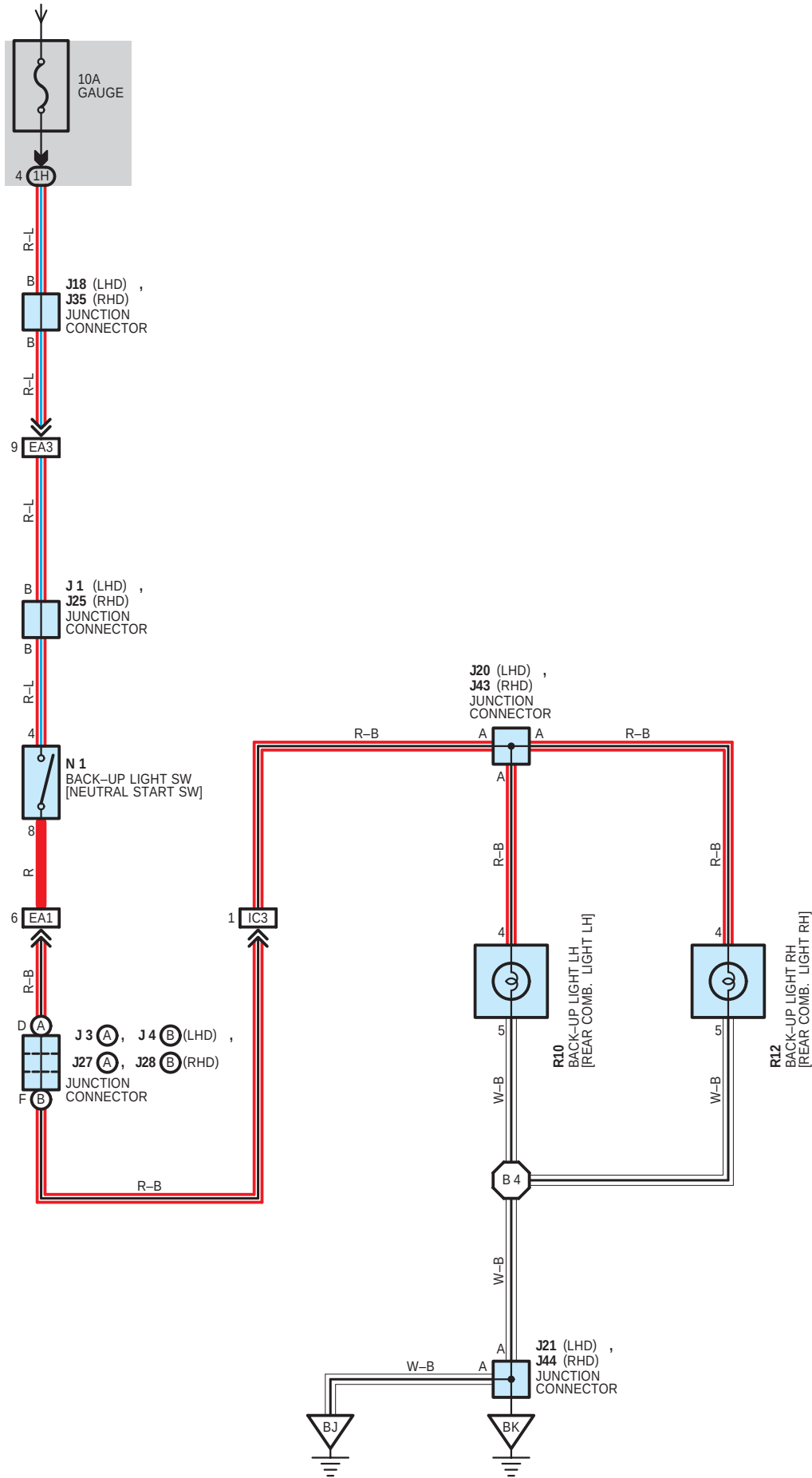


FROM POWER SOURCE SYSTEM (SEE PAGE 134)

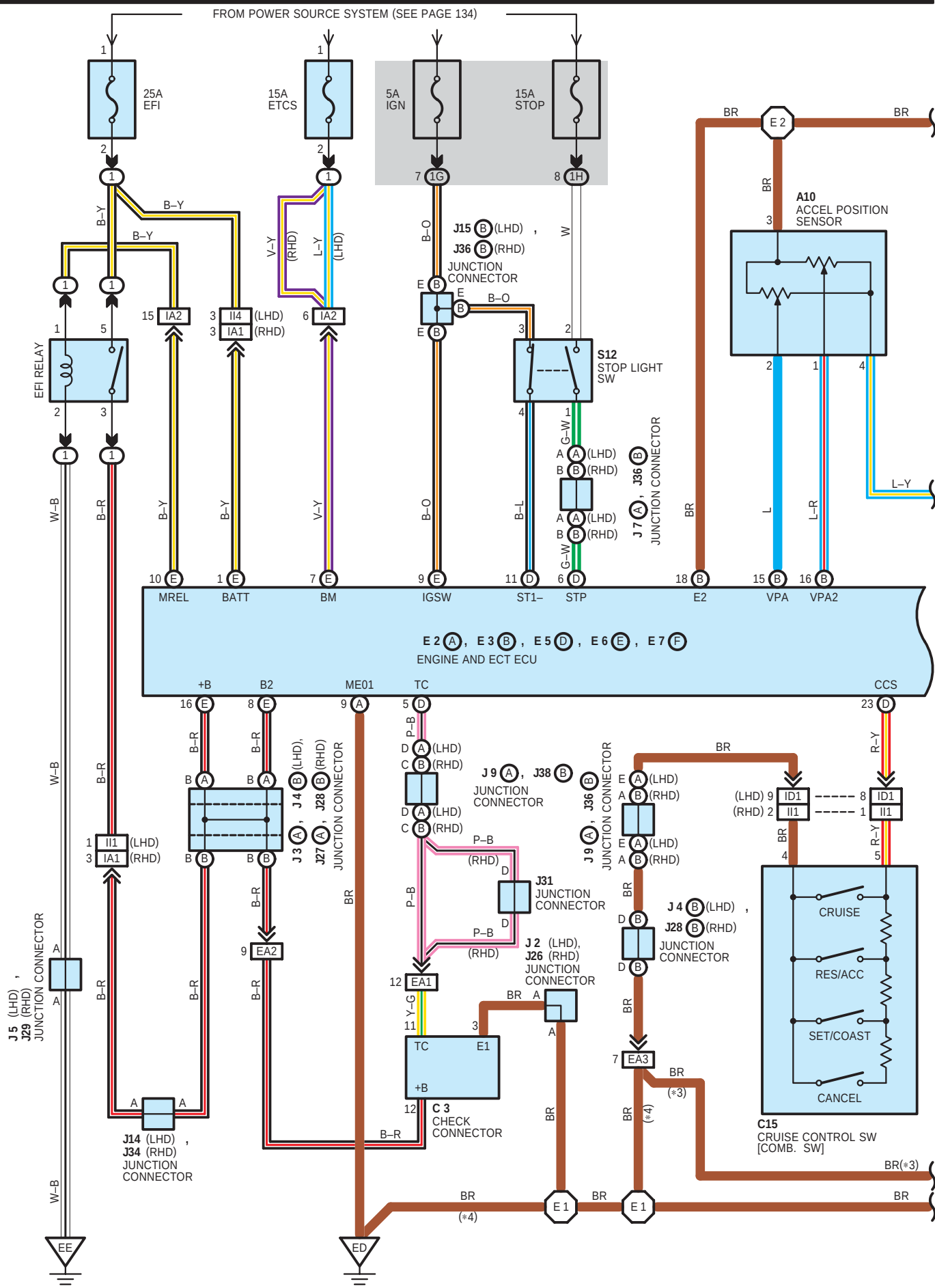


# BACK-UP LIGHT

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



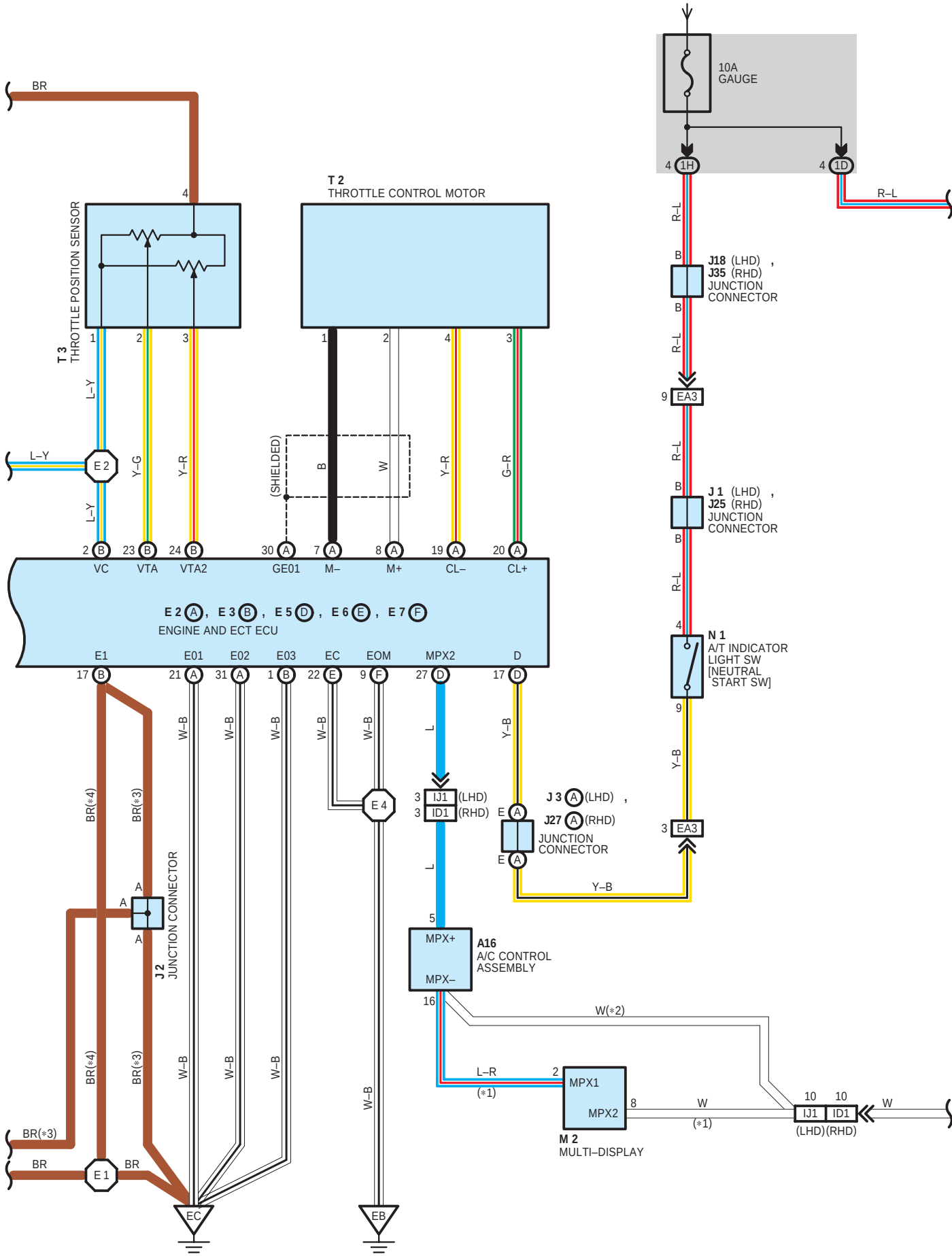
# CRUISE CONTROL



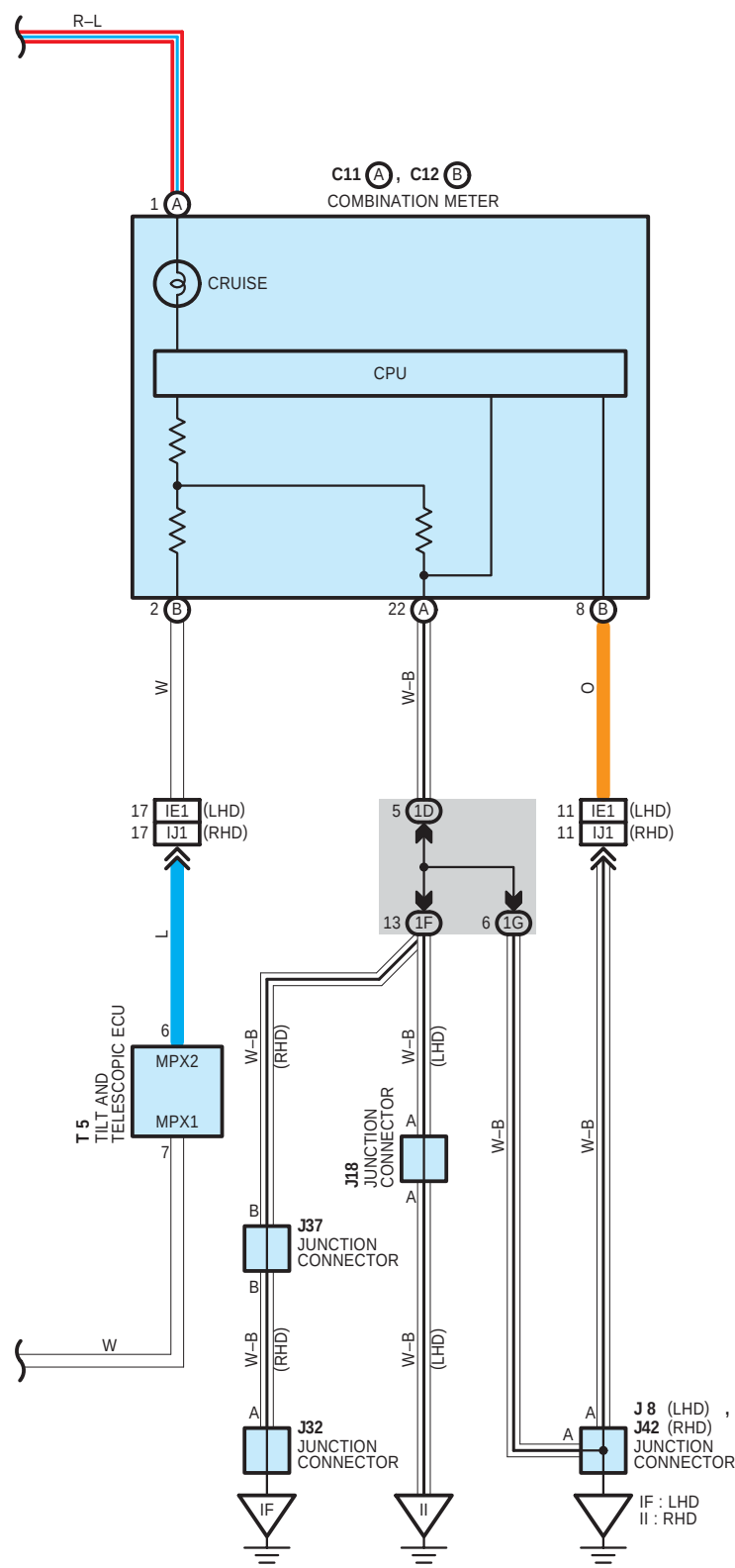
\* 1 : W/ LEXUS NAVIGATION SYSTEM  
 \* 2 : W/O LEXUS NAVIGATION SYSTEM

\* 3 : G. C. C.  
 \* 4 : EXCEPT G. C. C.

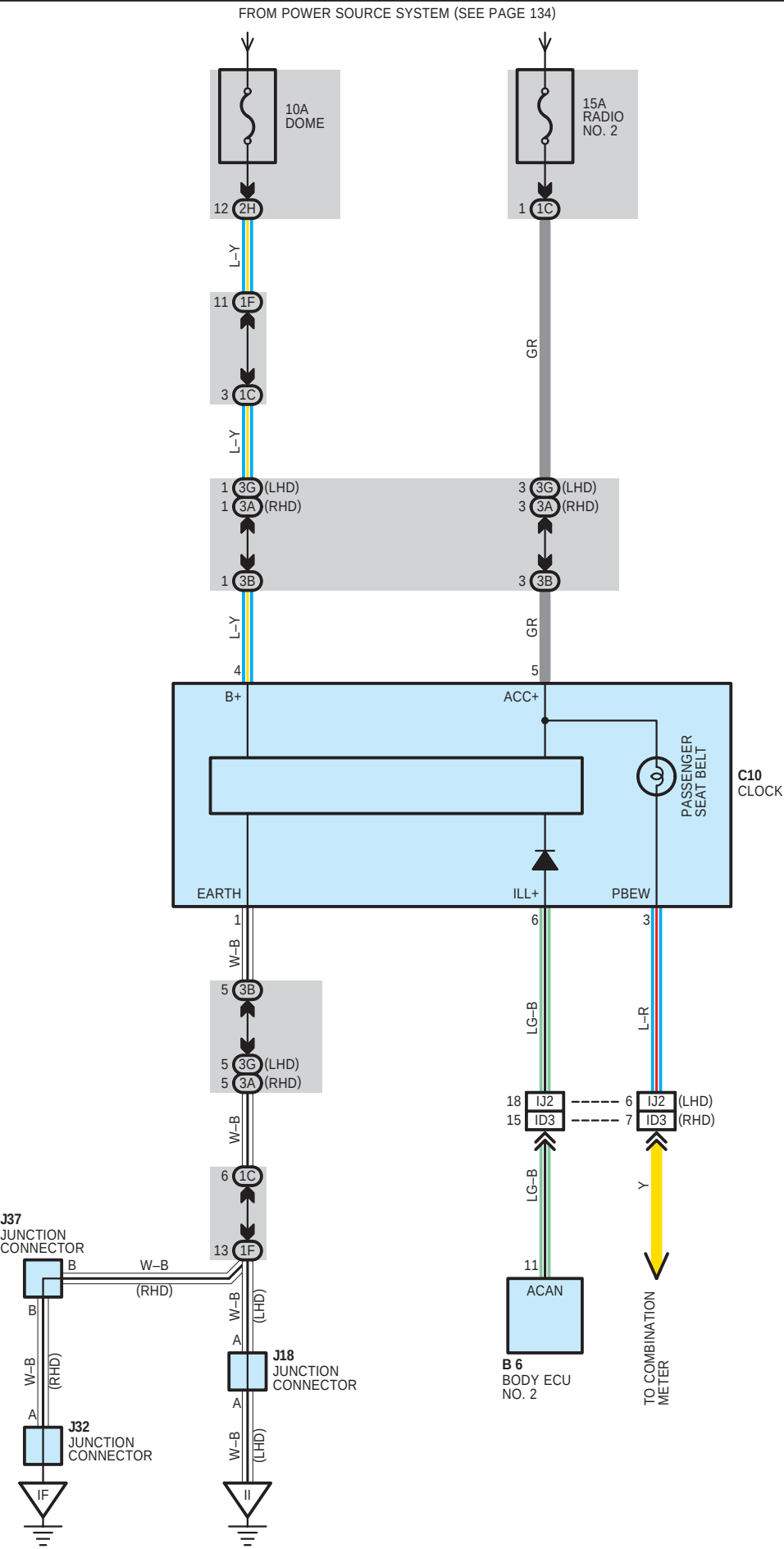
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



# CRUISE CONTROL

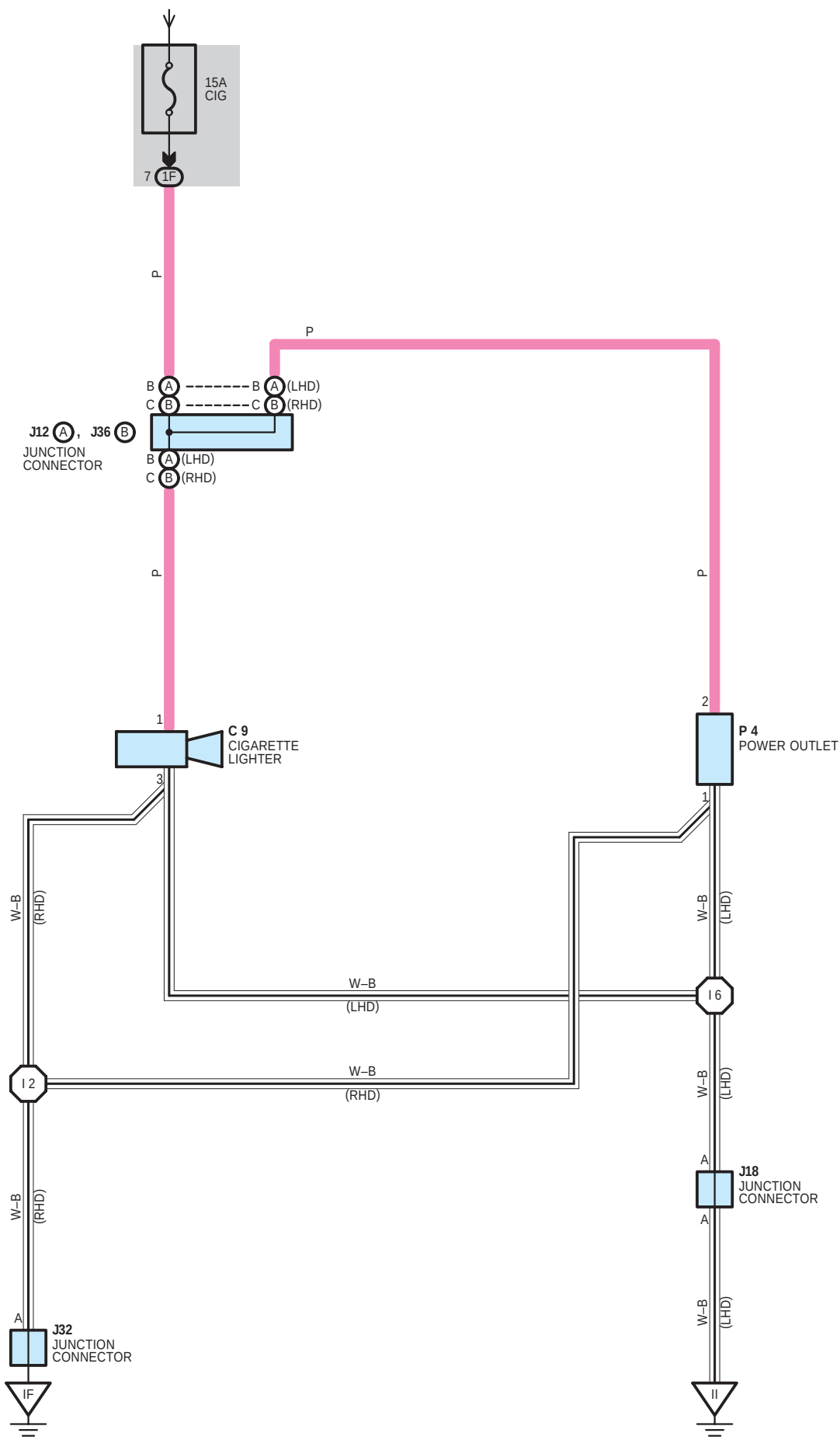






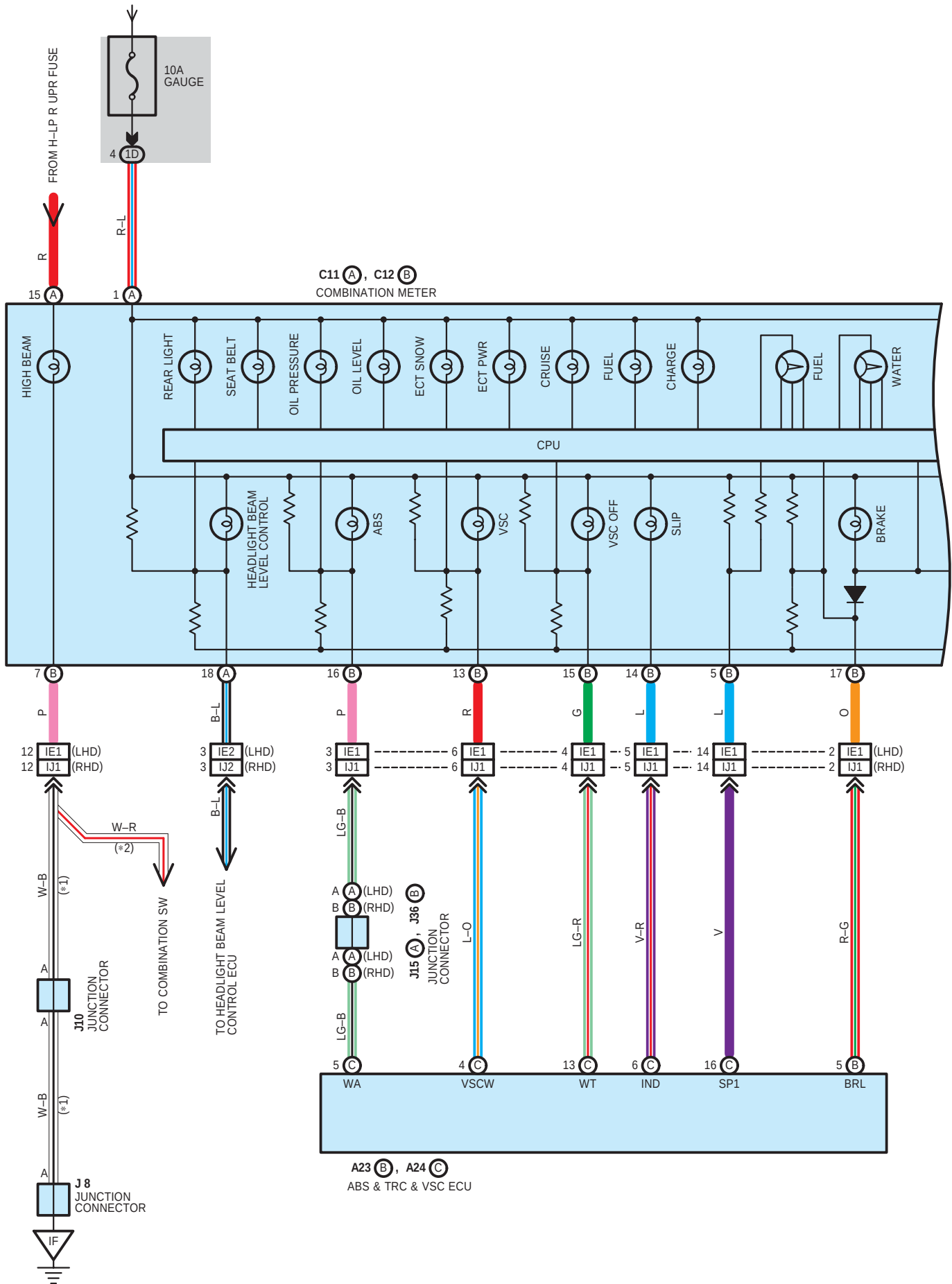
# CIGARETTE LIGHTER AND POWER OUTLET

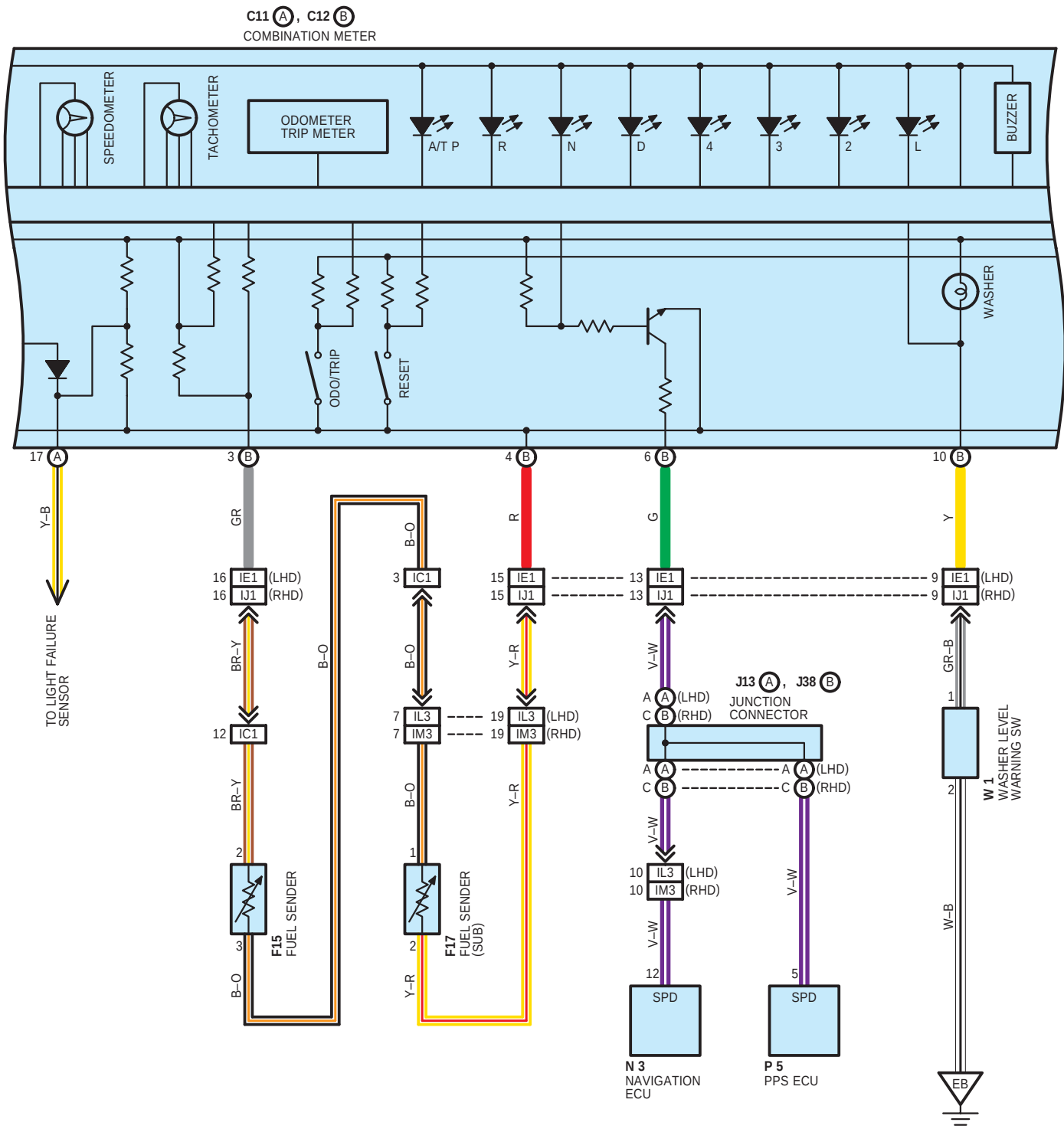
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



# COMBINATION METER

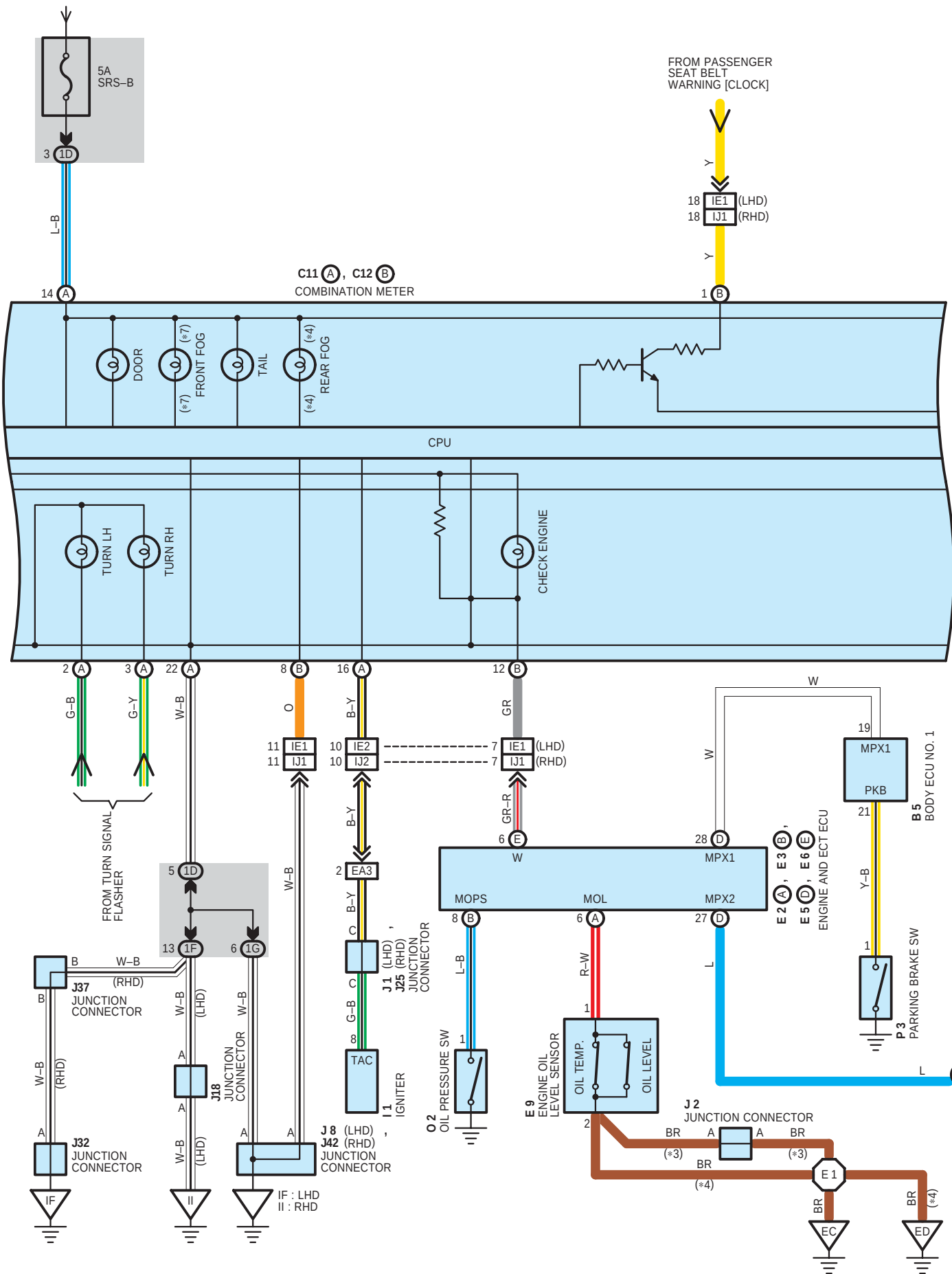
FROM POWER SOURCE SYSTEM (SEE PAGE 134)





# COMBINATION METER

FROM POWER SOURCE SYSTEM (SEE PAGE 134)

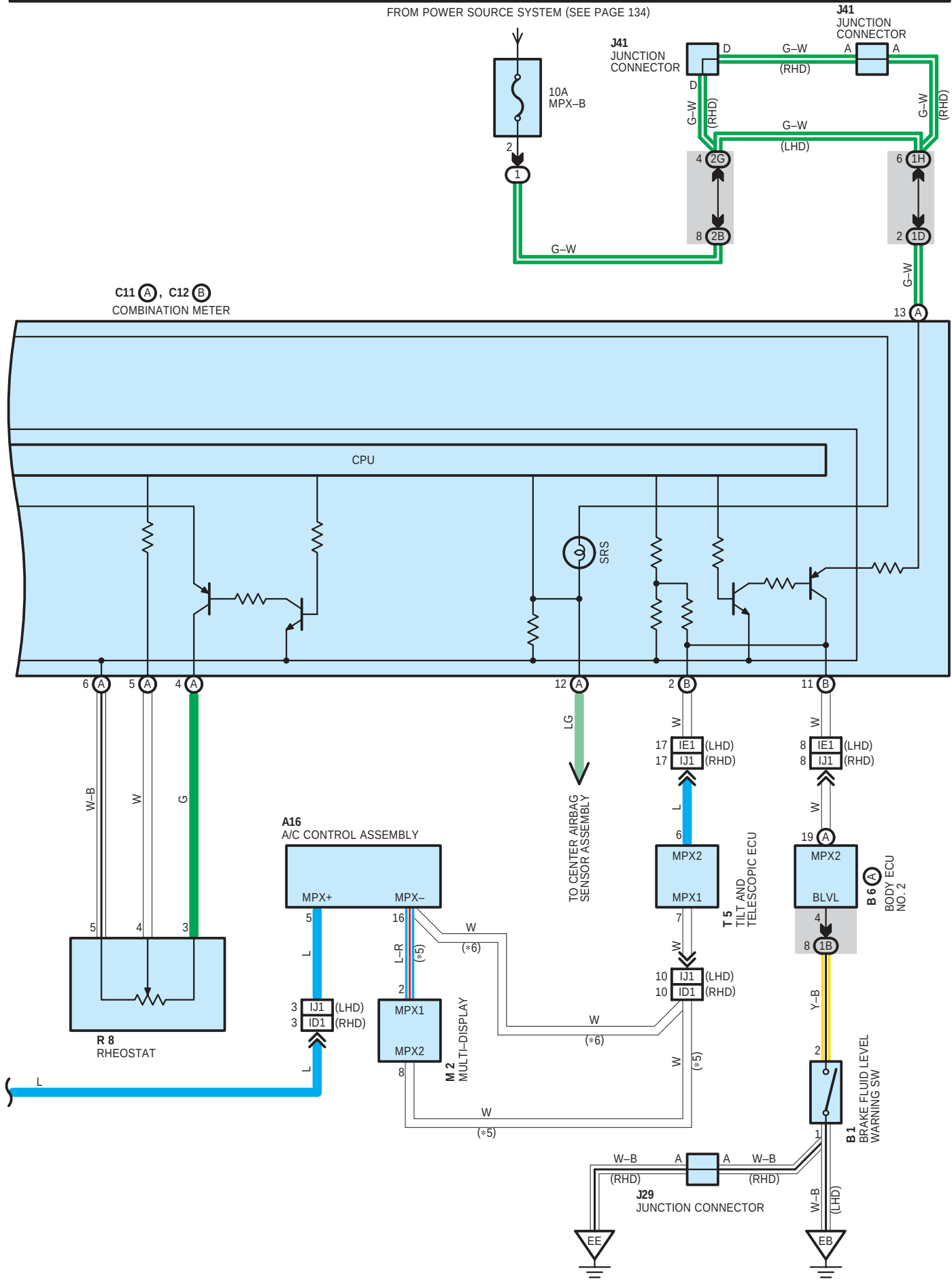


\* 3 : G. C. C.  
\* 4 : EXCEPT G. C. C.

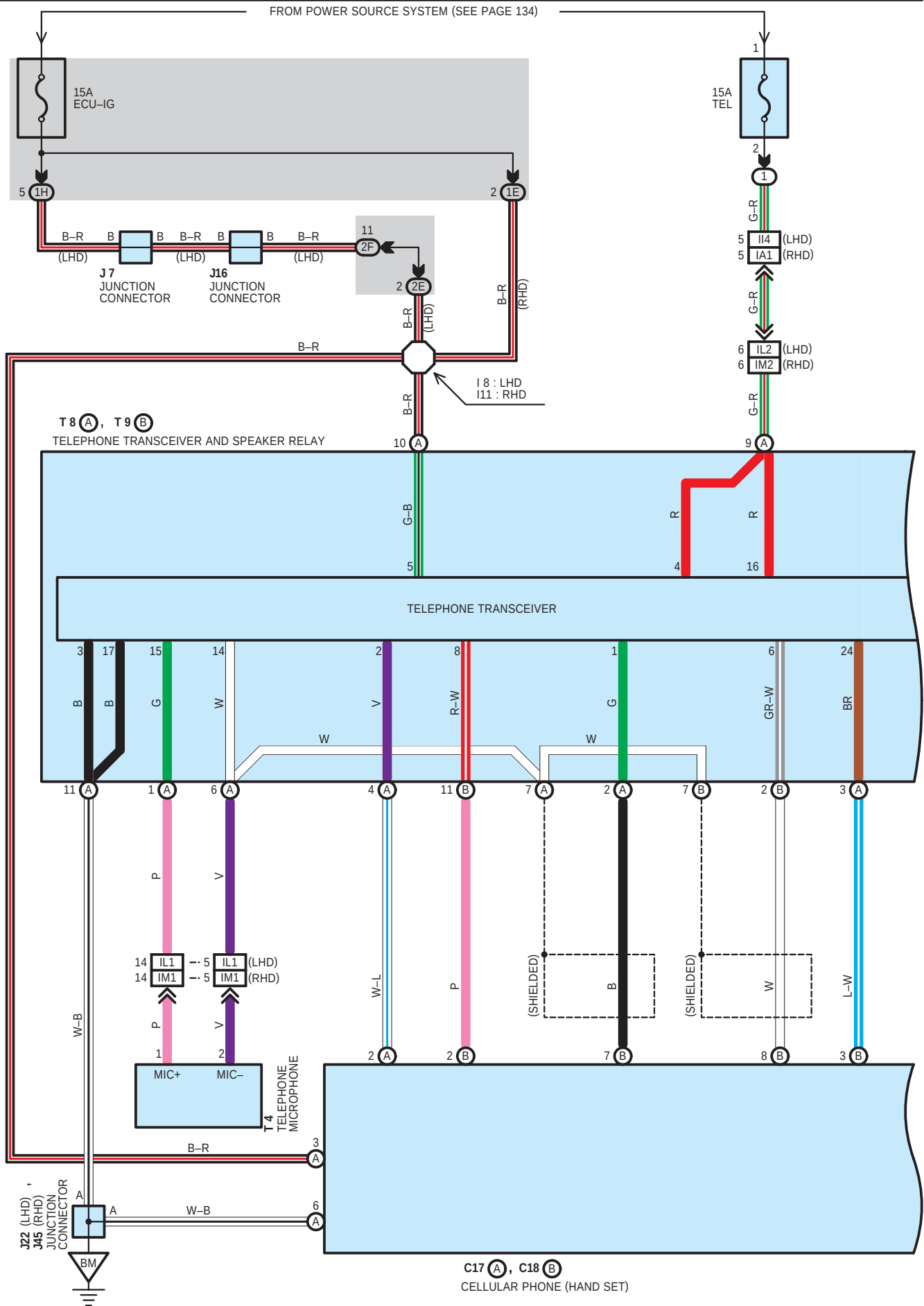
\* 5 : W/ LEXUS NAVIGATION SYSTEM  
\* 6 : W/O LEXUS NAVIGATION SYSTEM

\* 7 : EUROPE

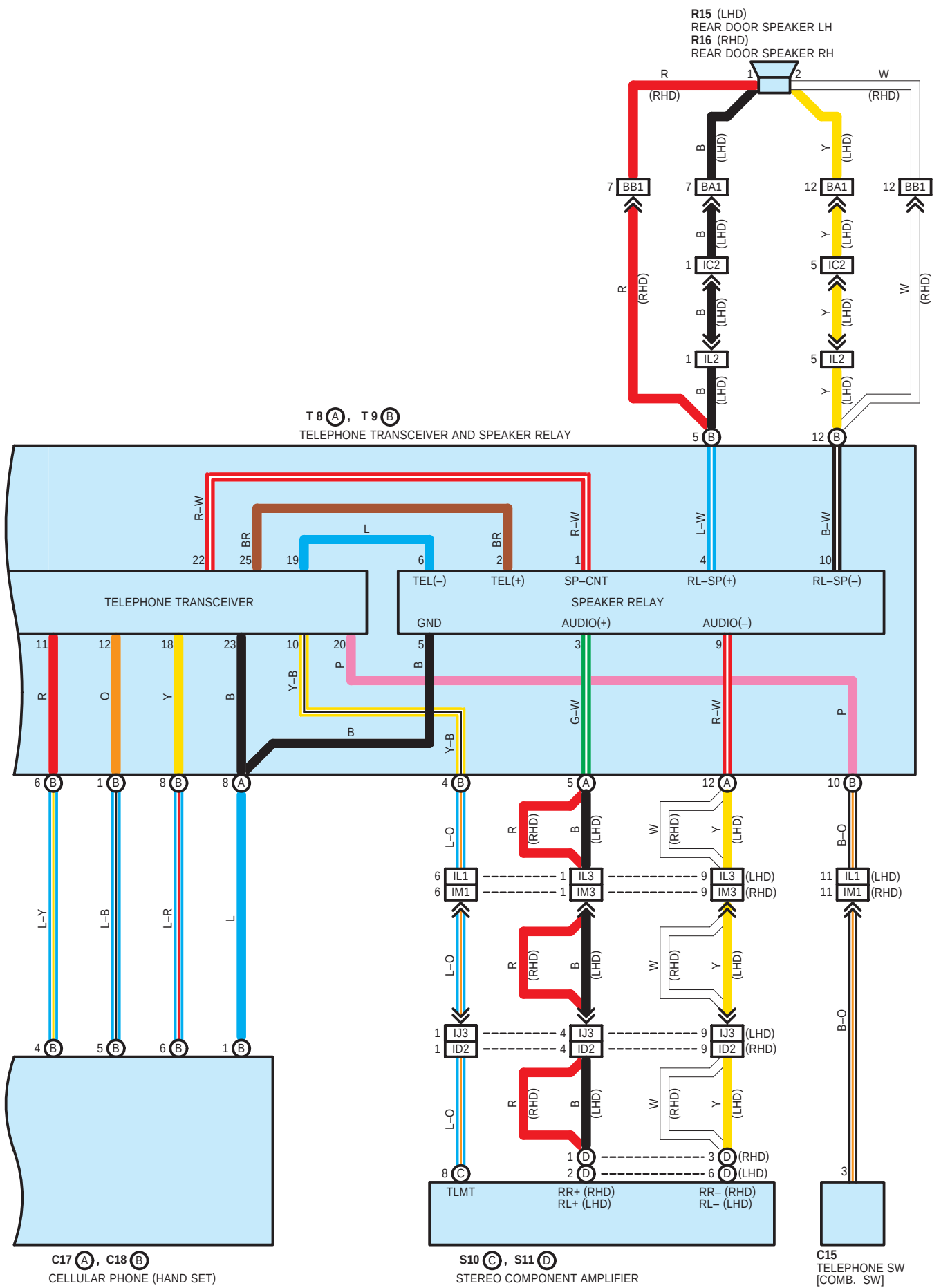
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



# CELLULAR MOBILE TELEPHONE



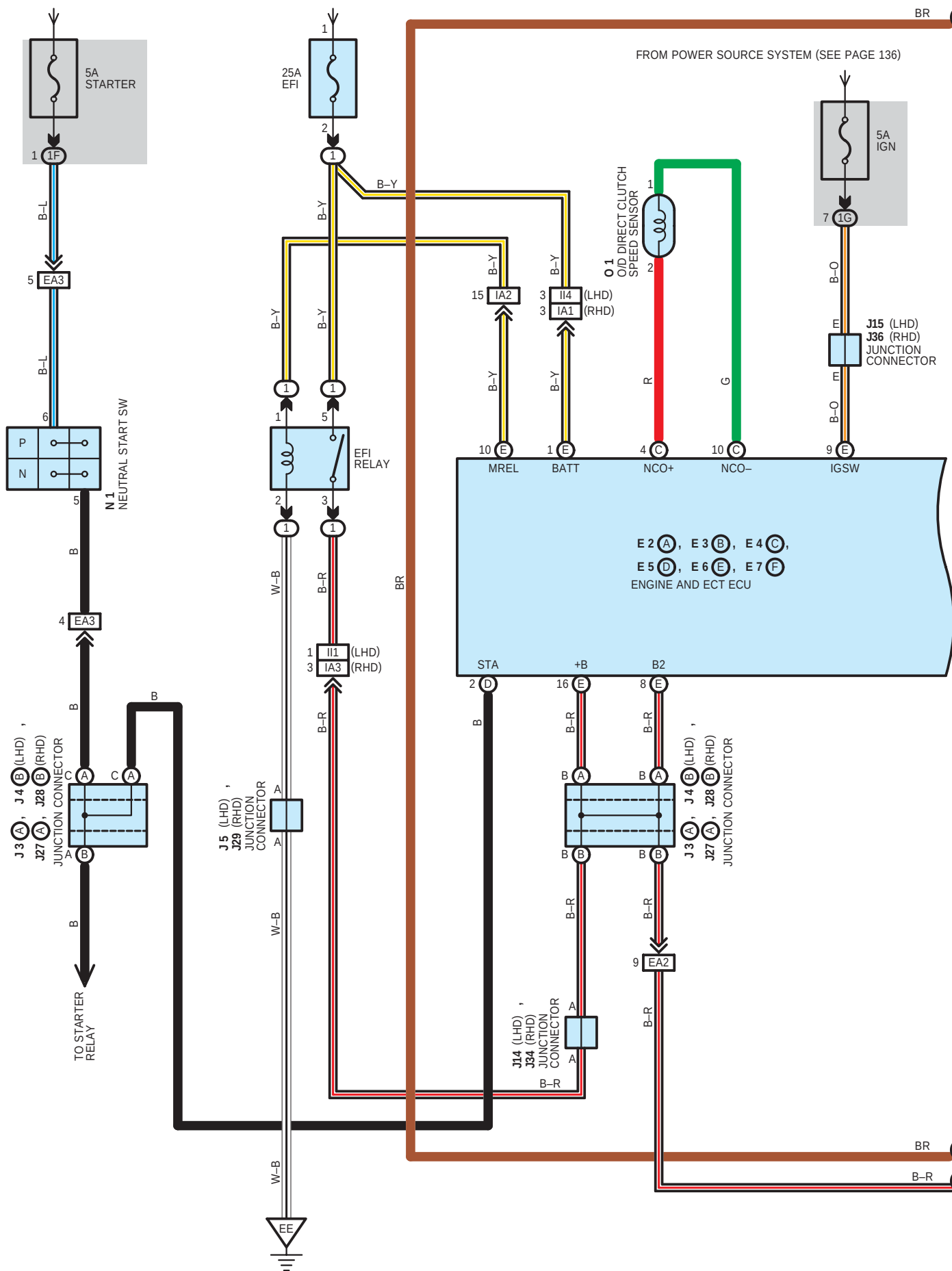






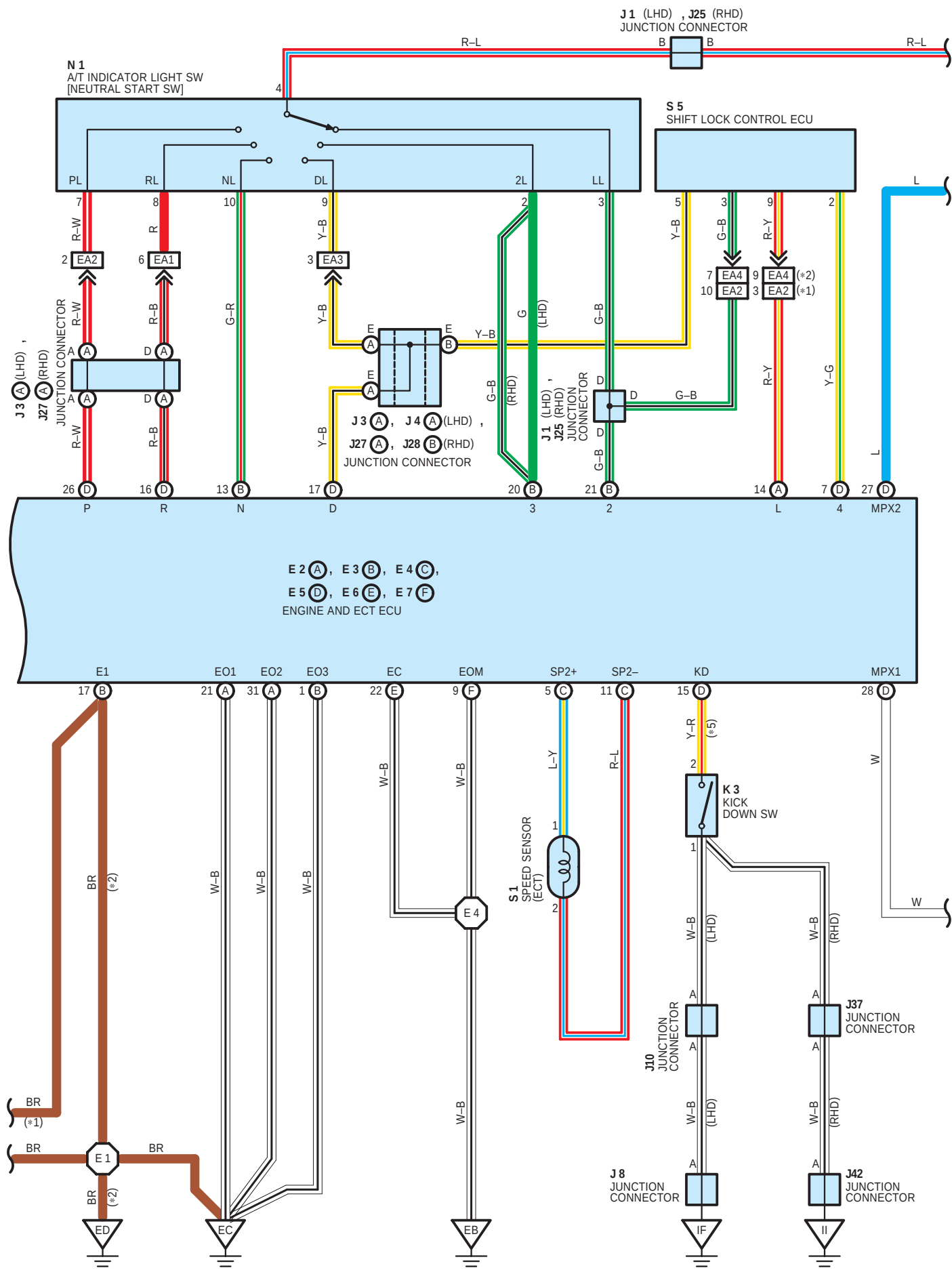
## ECT AND A/T INDICATOR

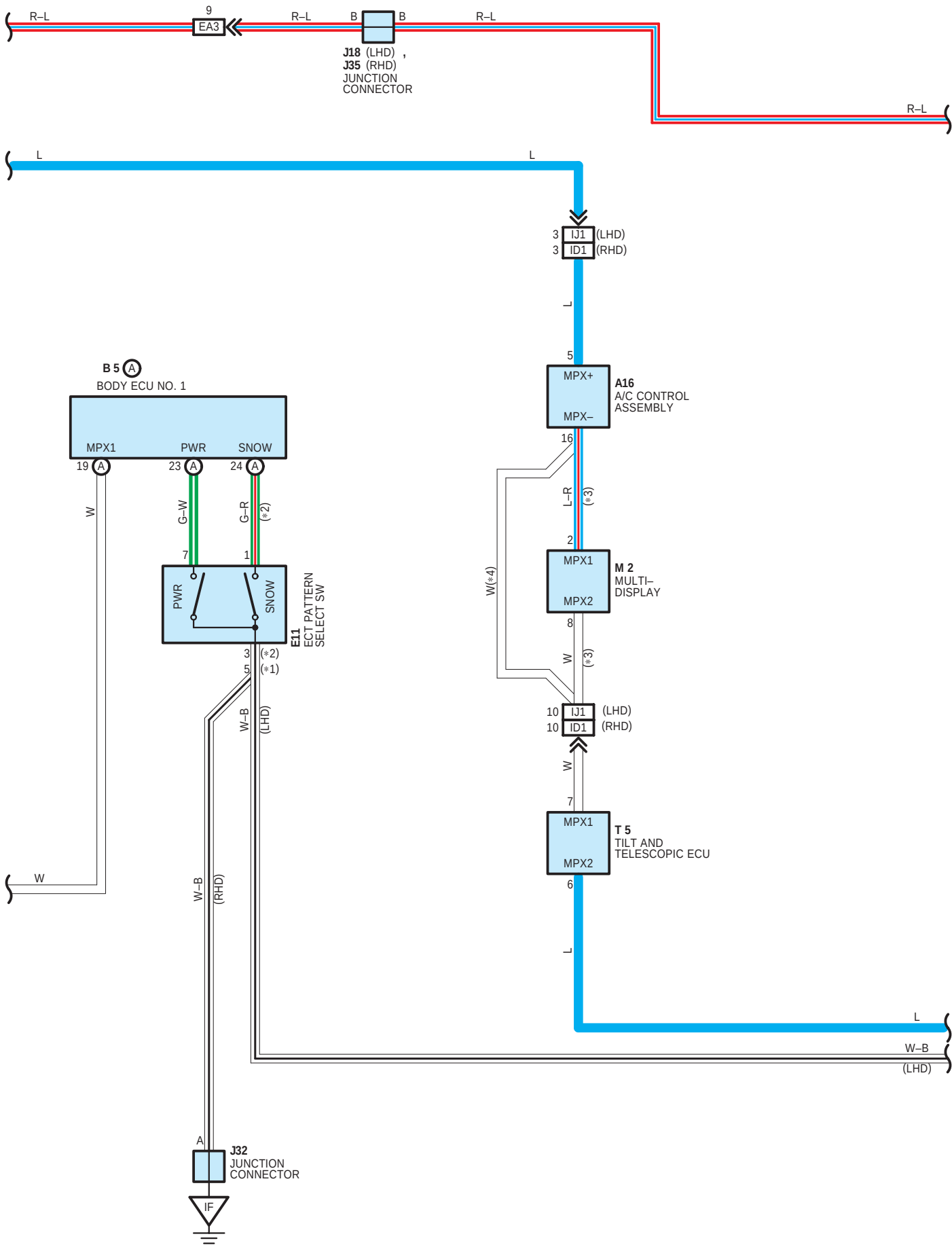
FROM POWER SOURCE SYSTEM (SEE PAGE 134)

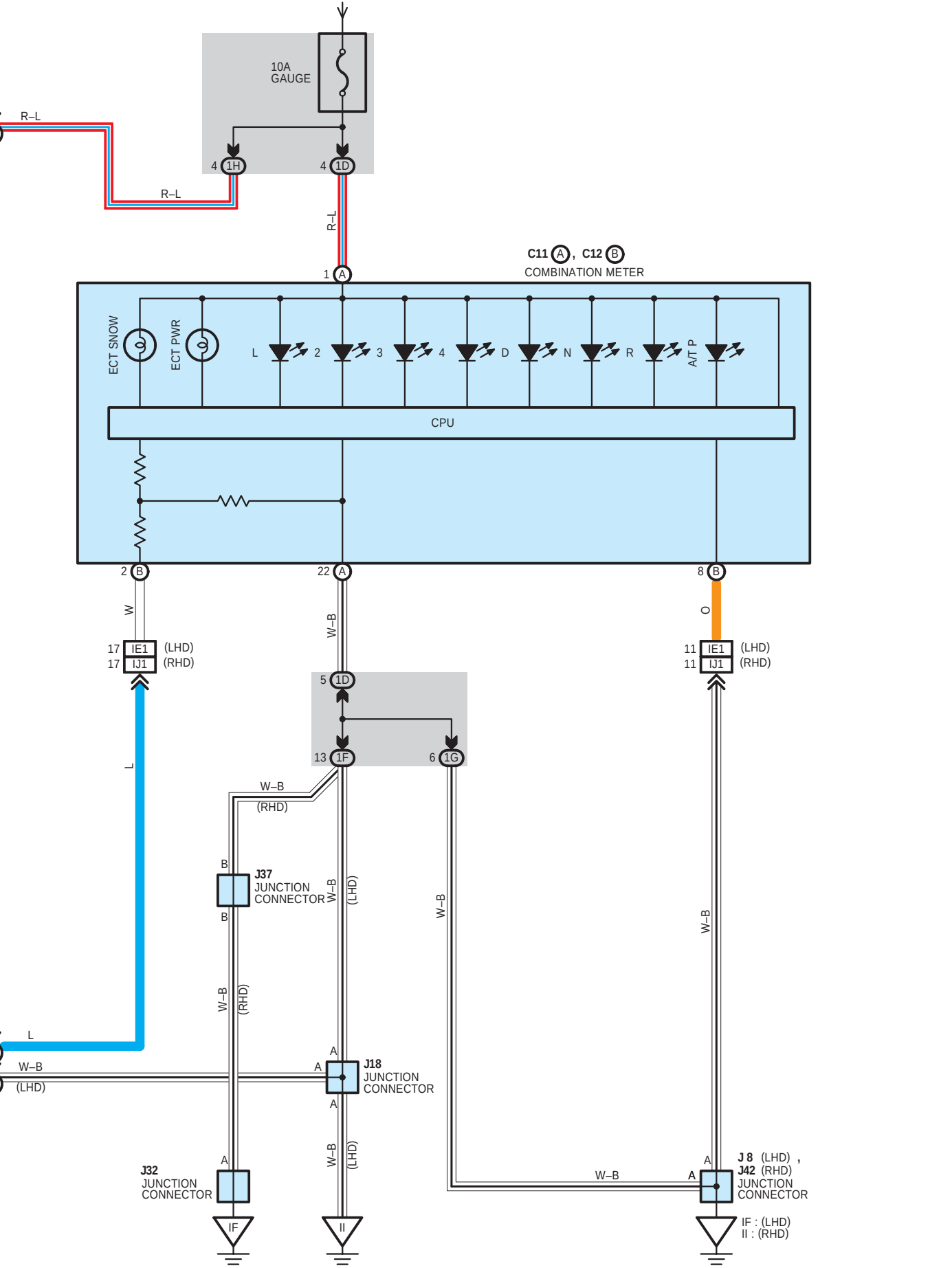




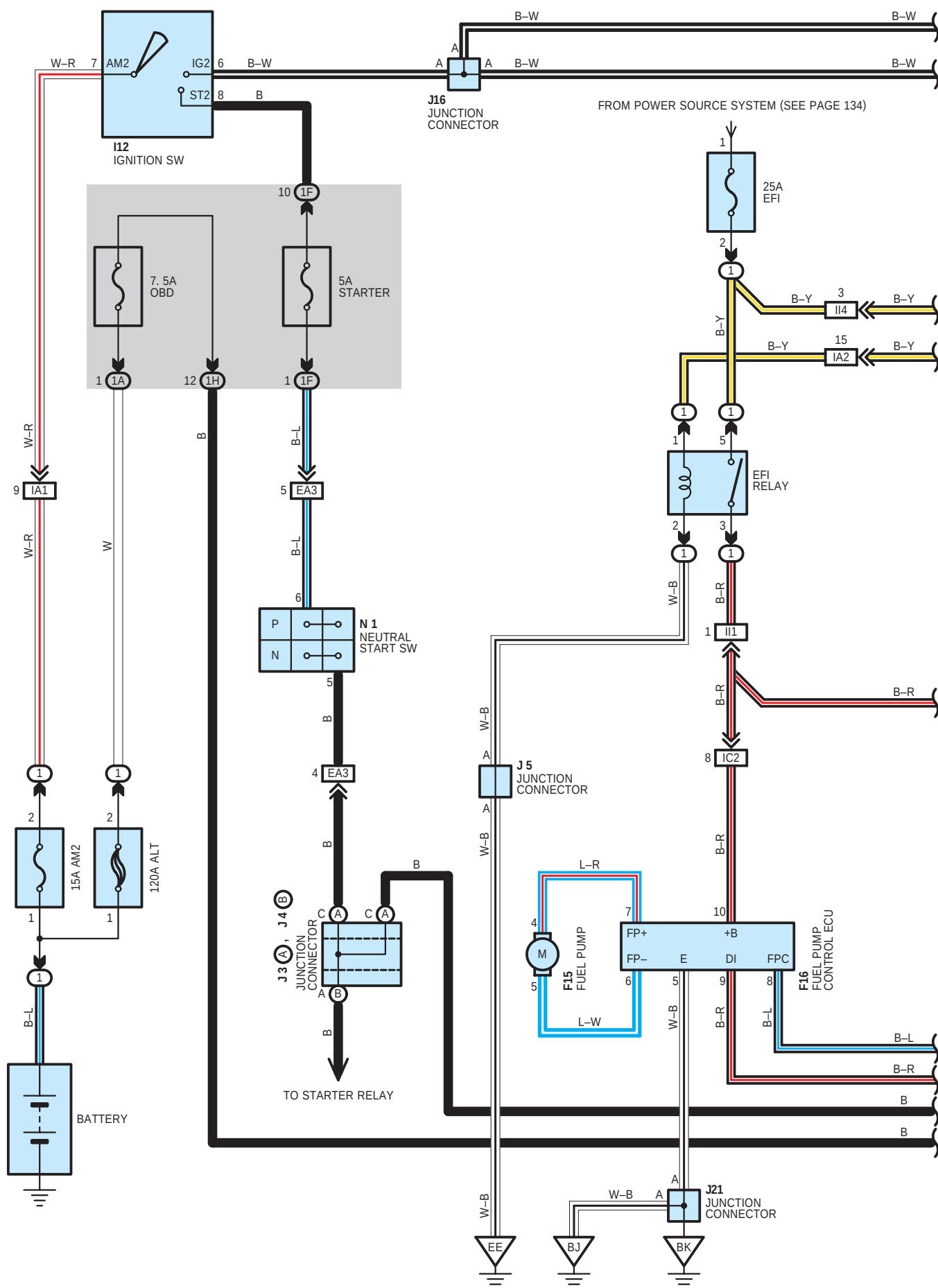
# ECT AND A/T INDICATOR



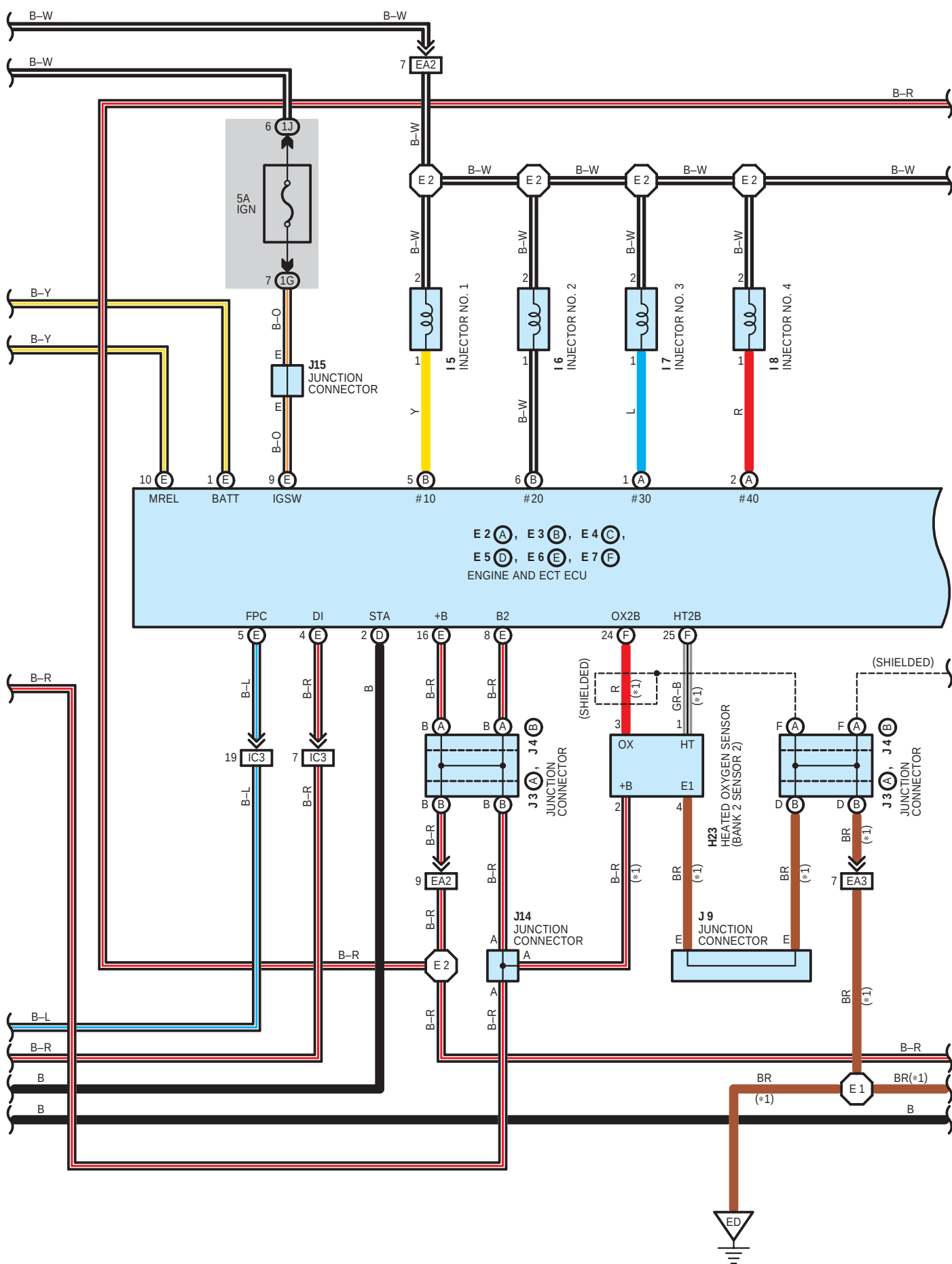




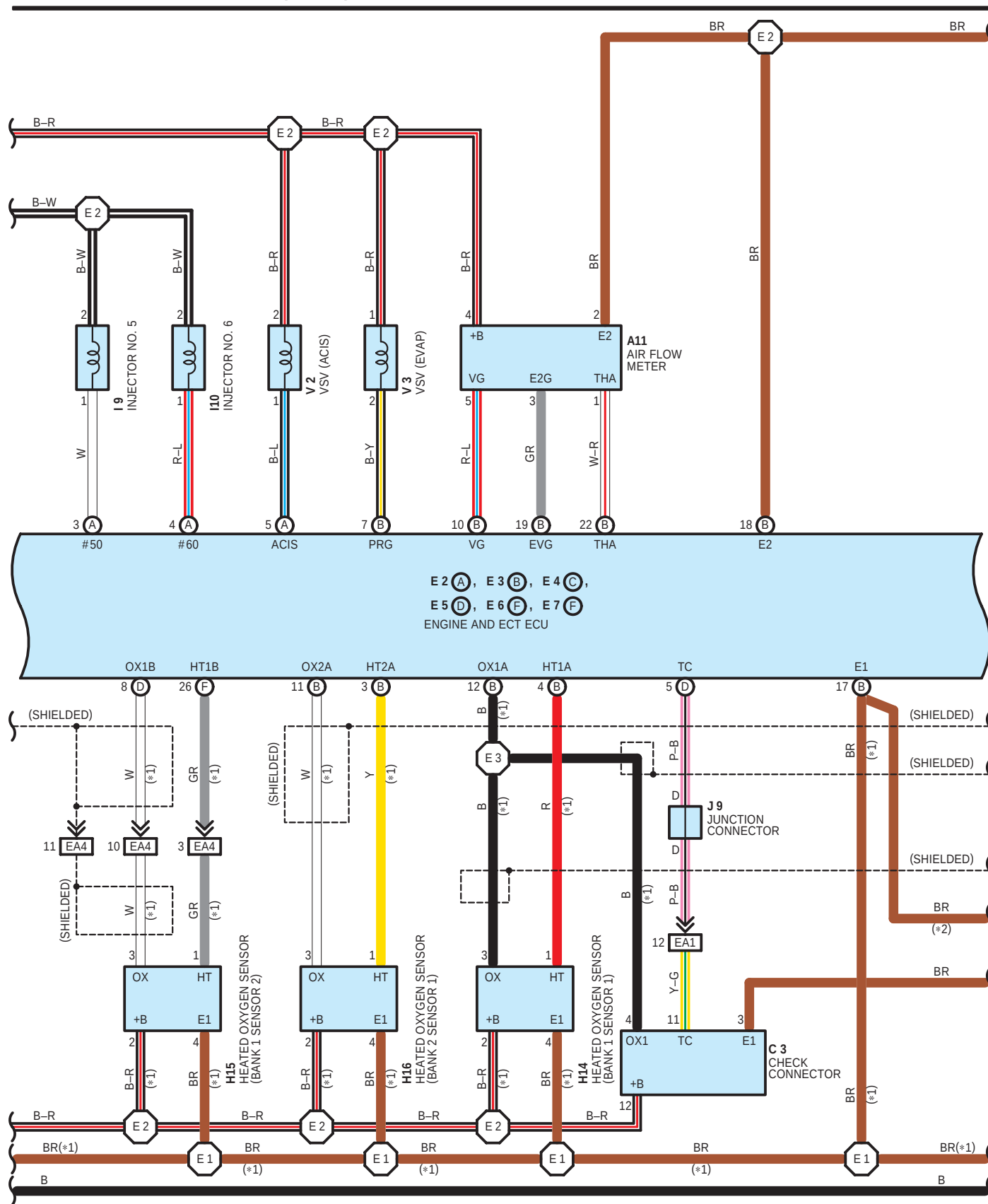
# ENGINE CONTROL (LHD)





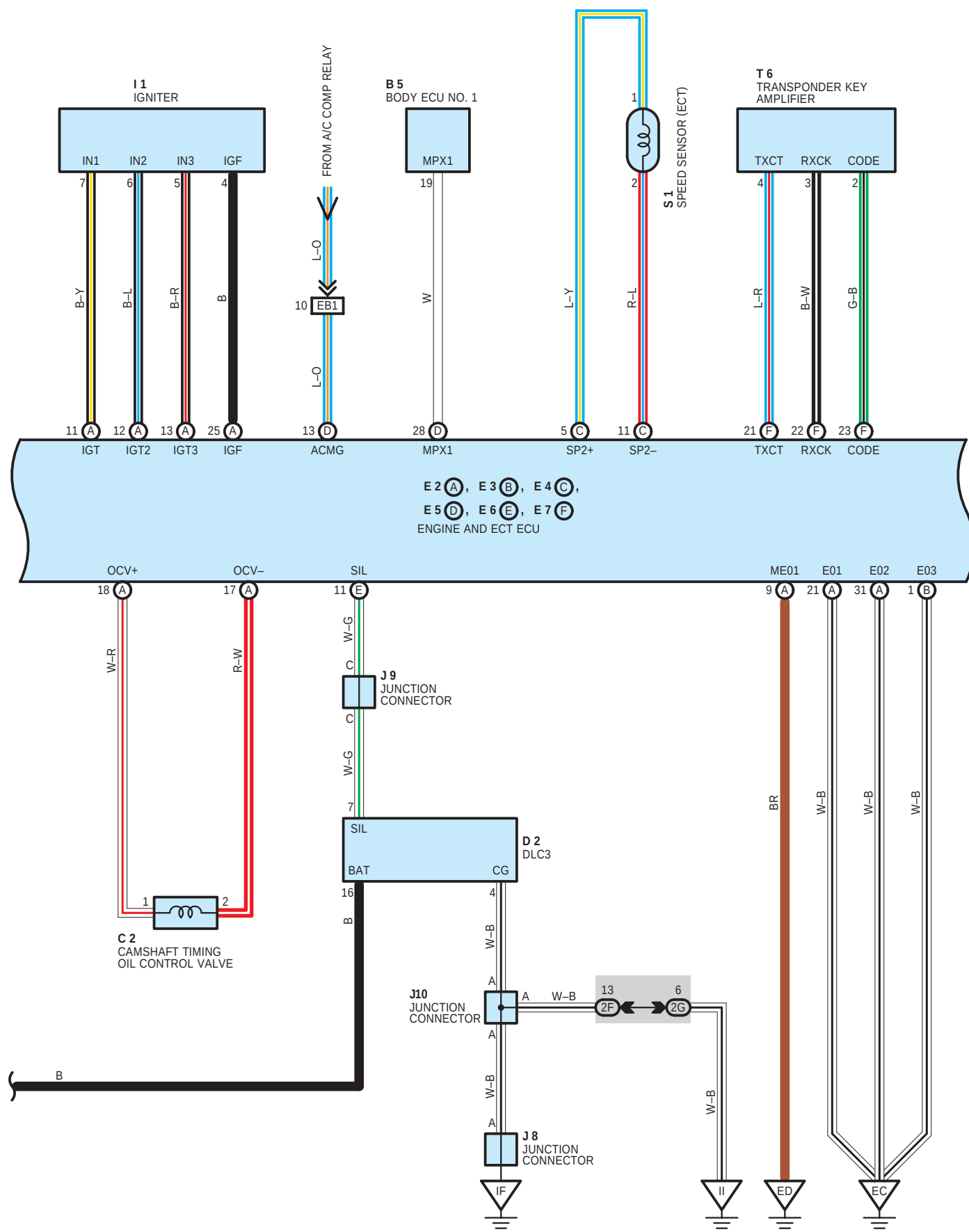


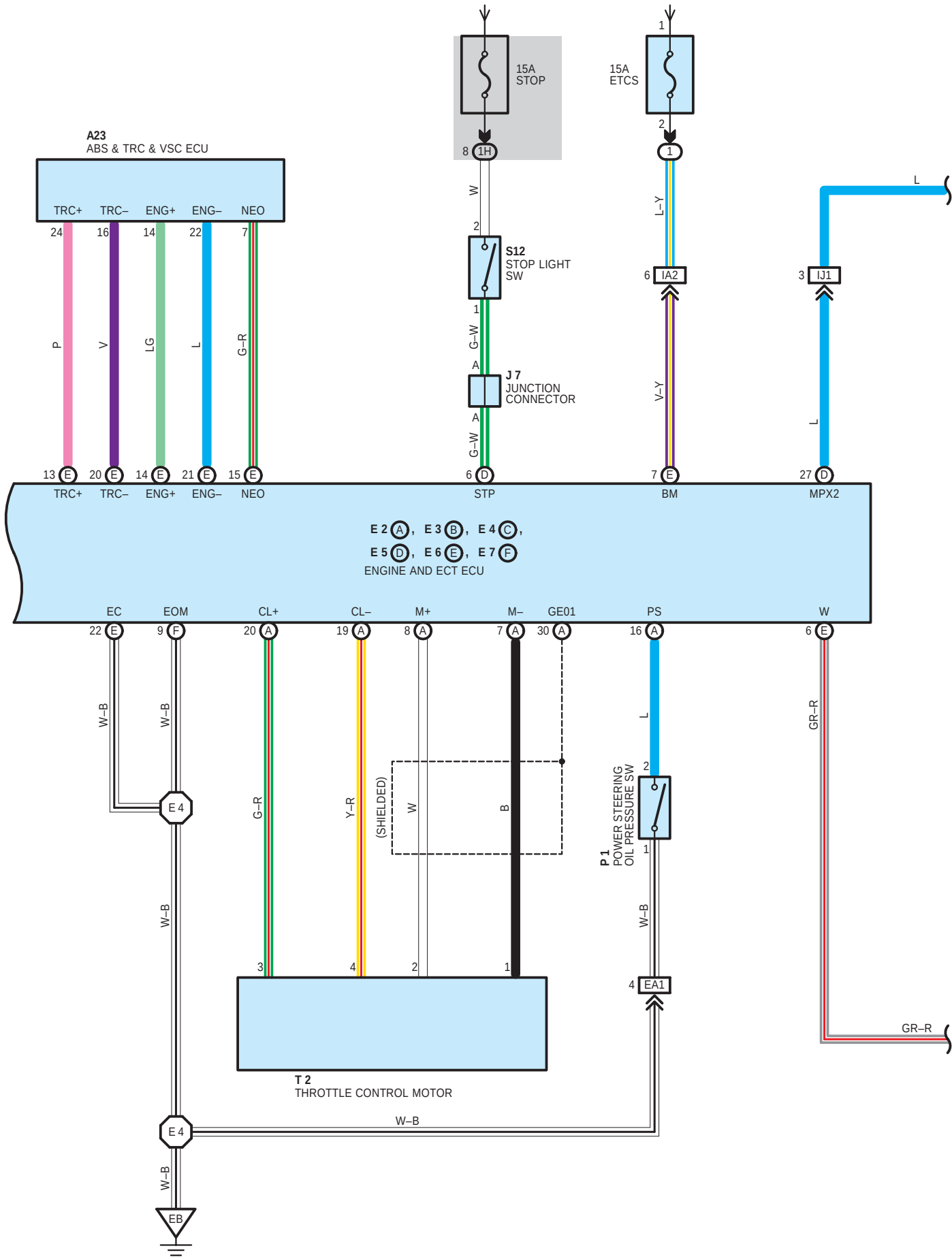
# ENGINE CONTROL (LHD)

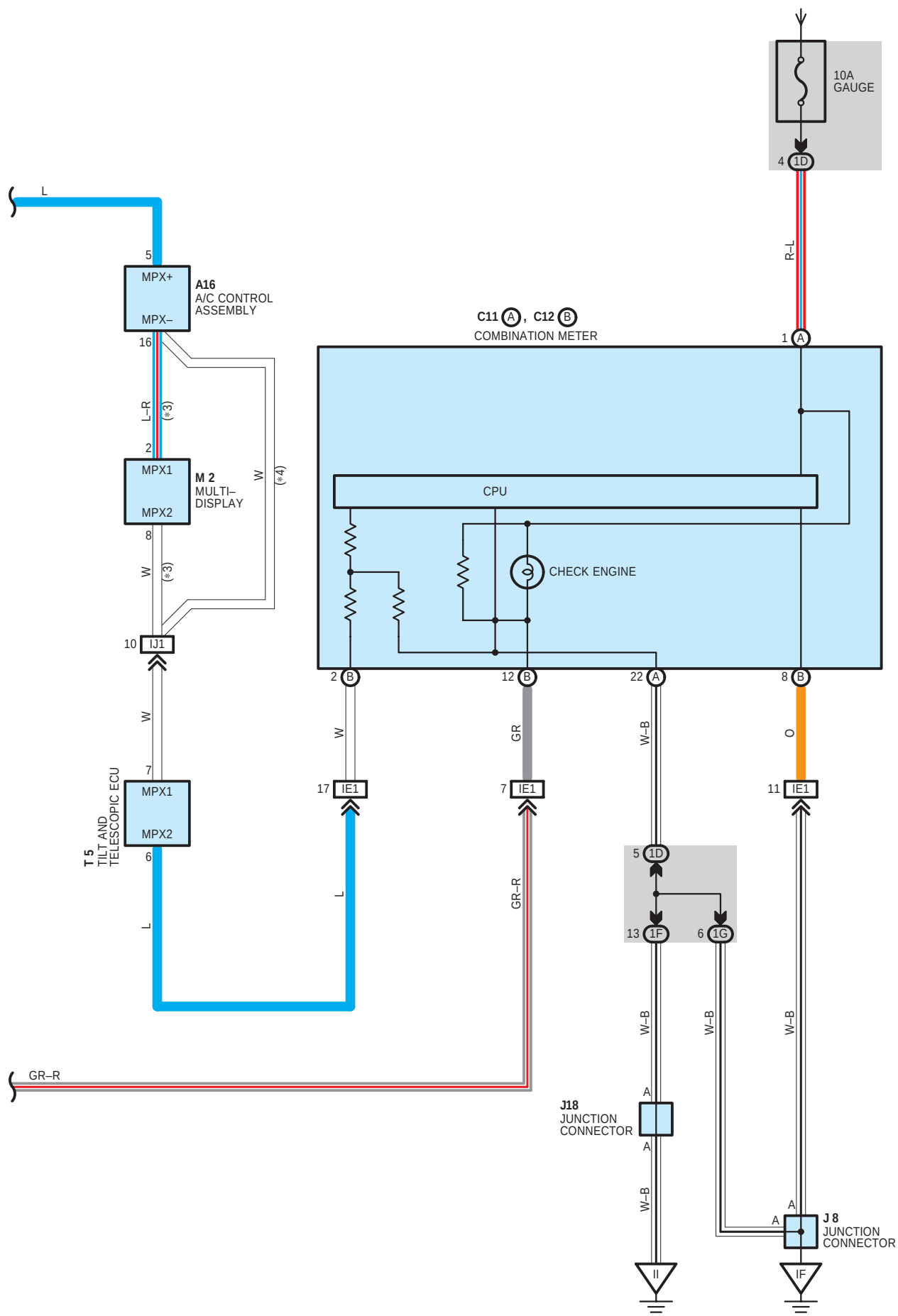




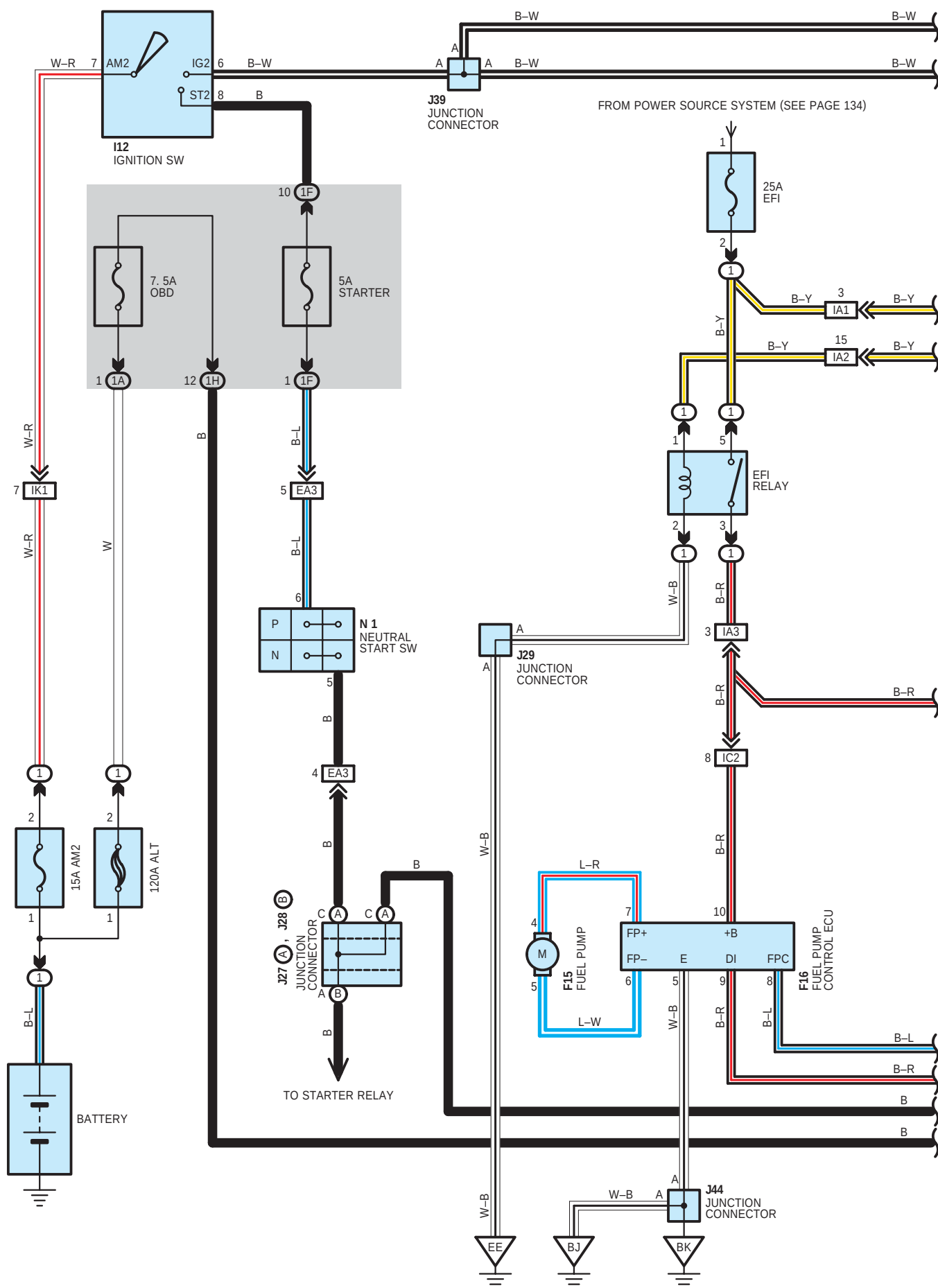
# ENGINE CONTROL (LHD)

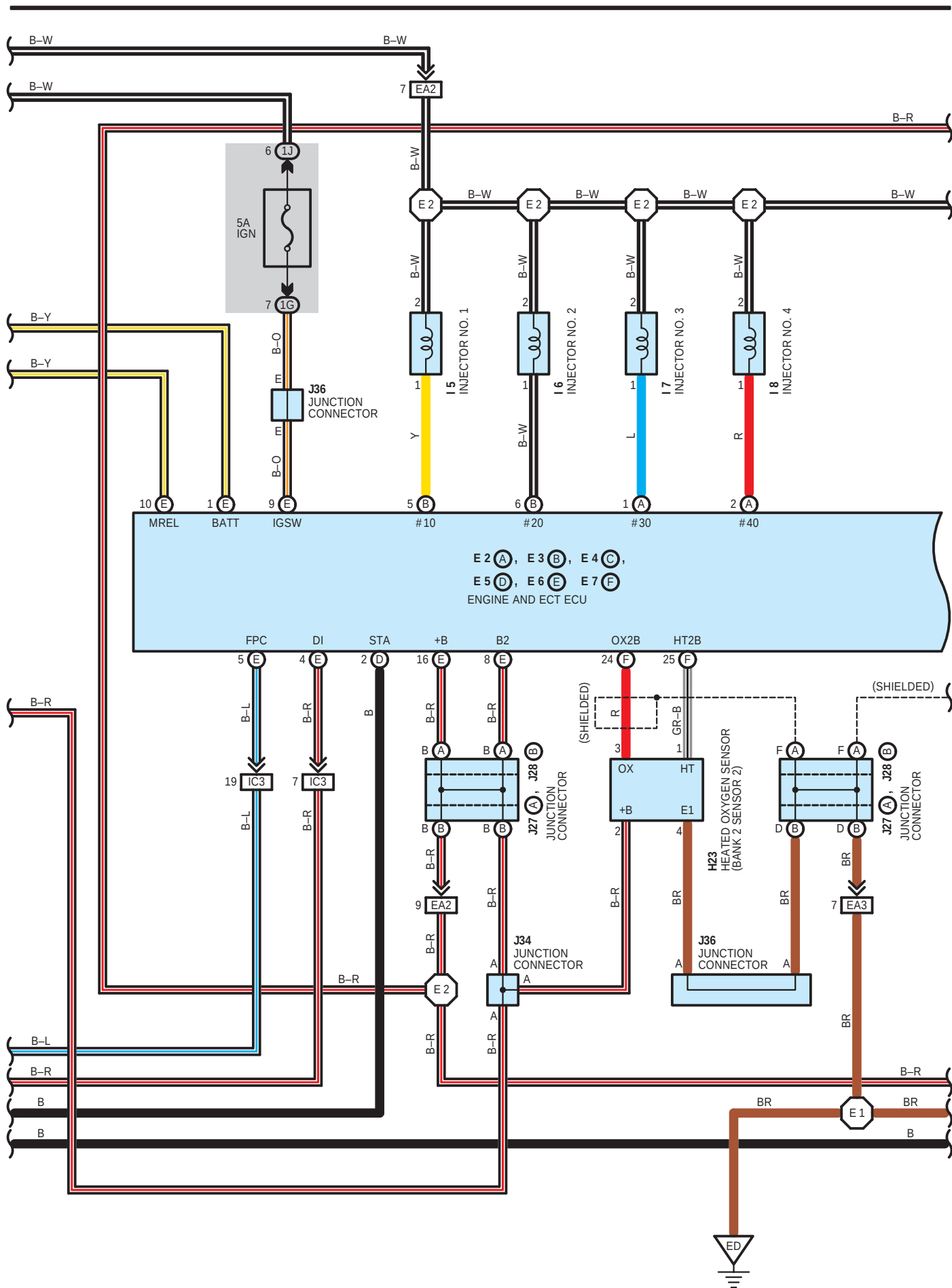






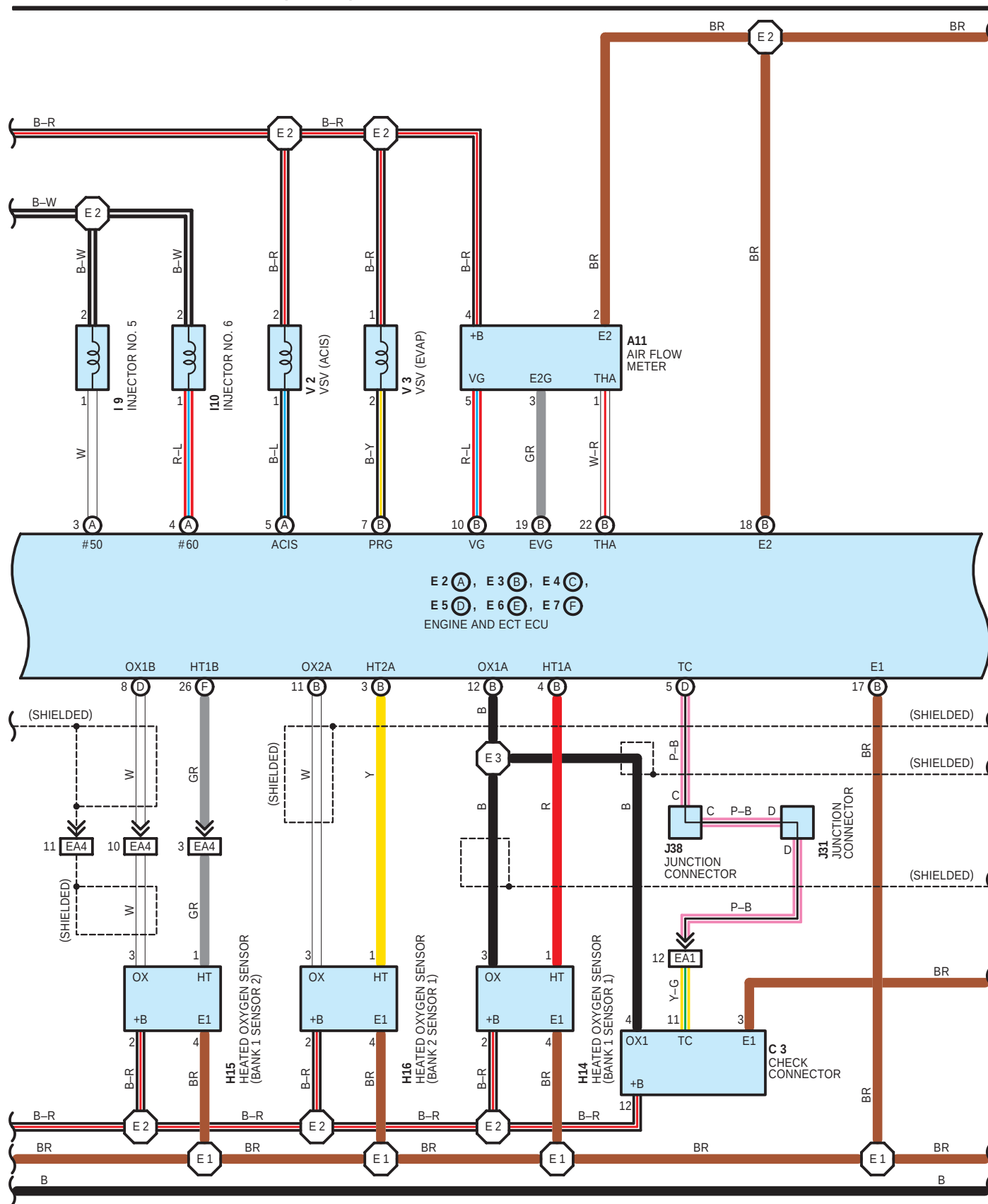
# ENGINE CONTROL (RHD)



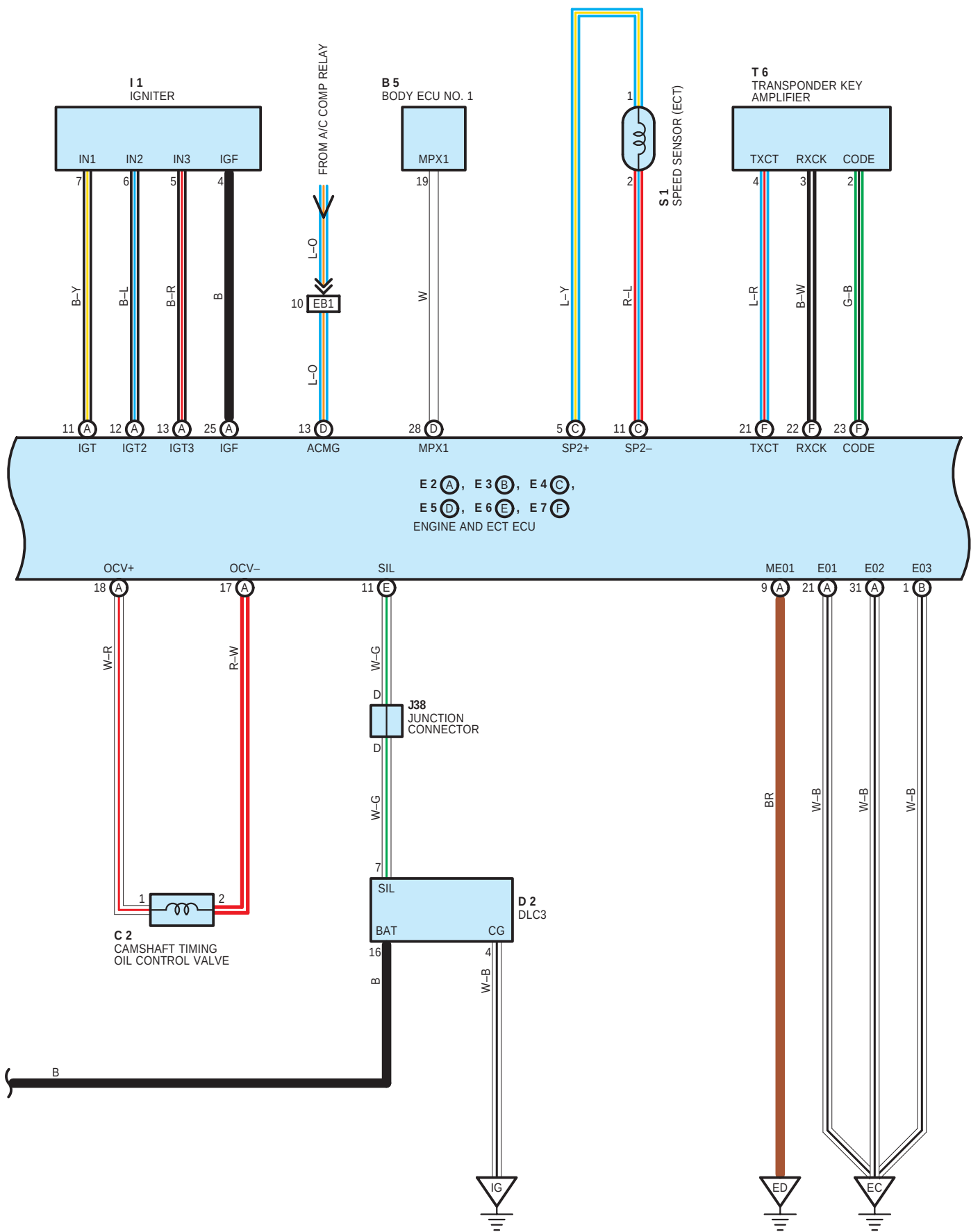


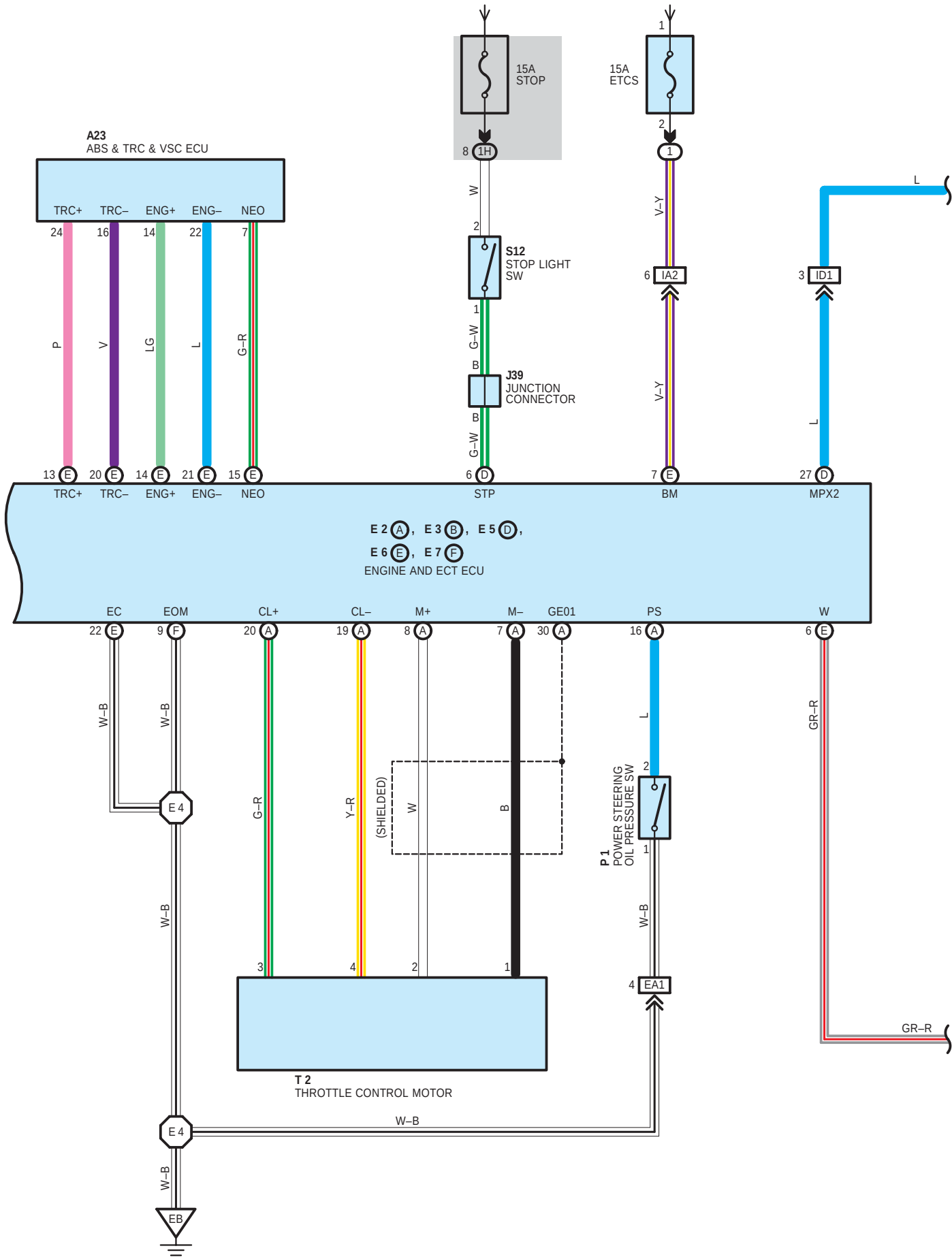


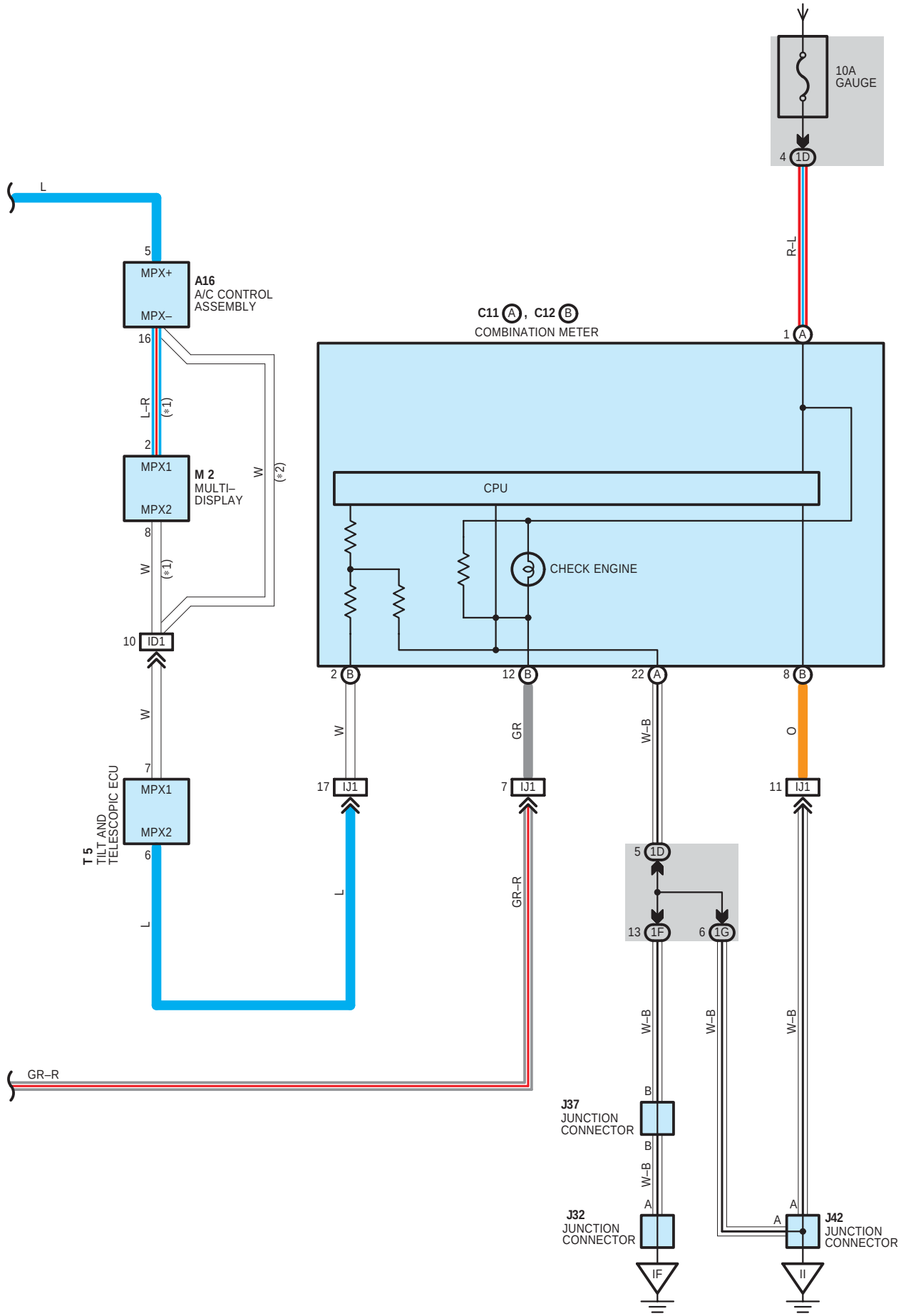
# ENGINE CONTROL (RHD)





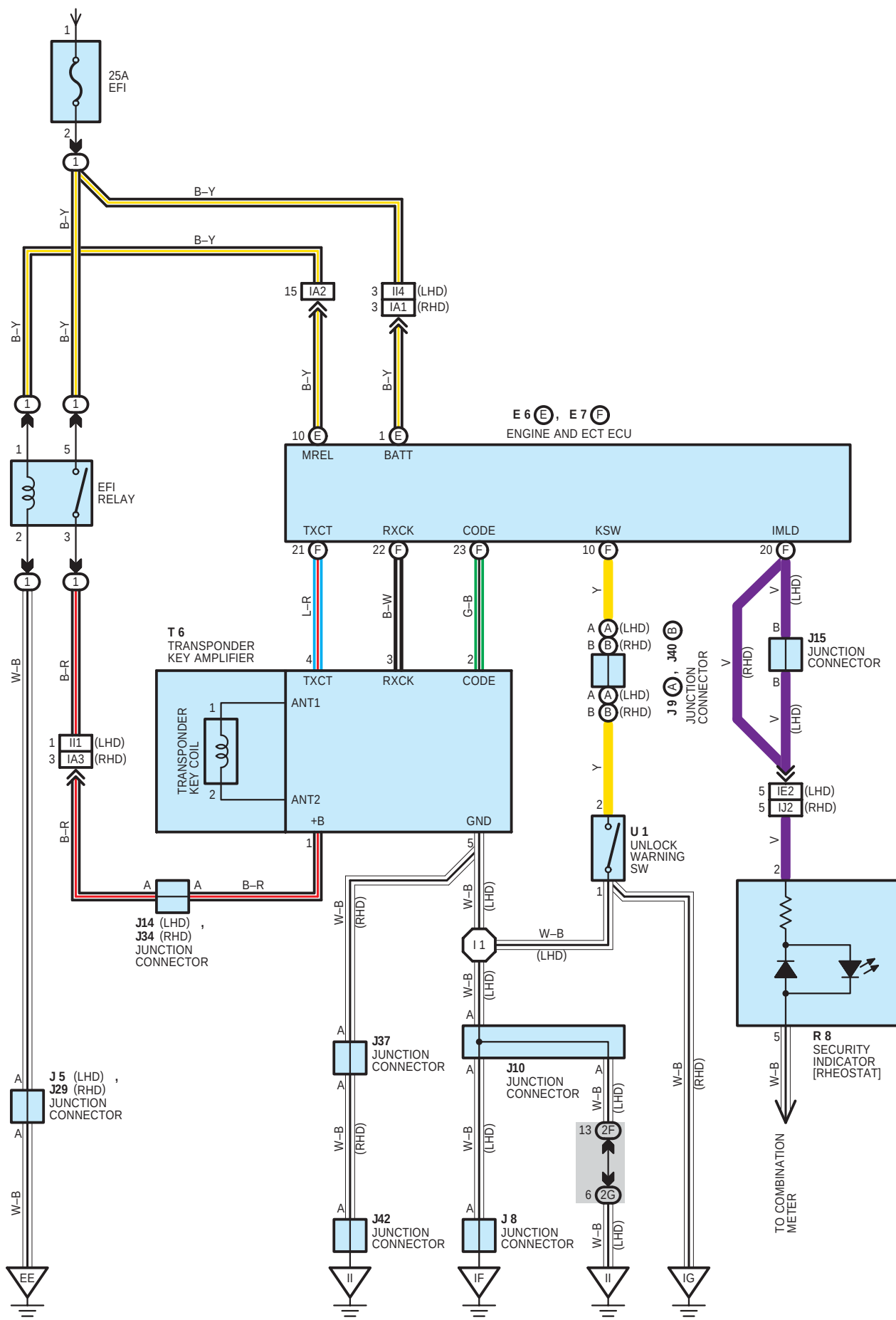






# ENGINE IMMOBILISER SYSTEM

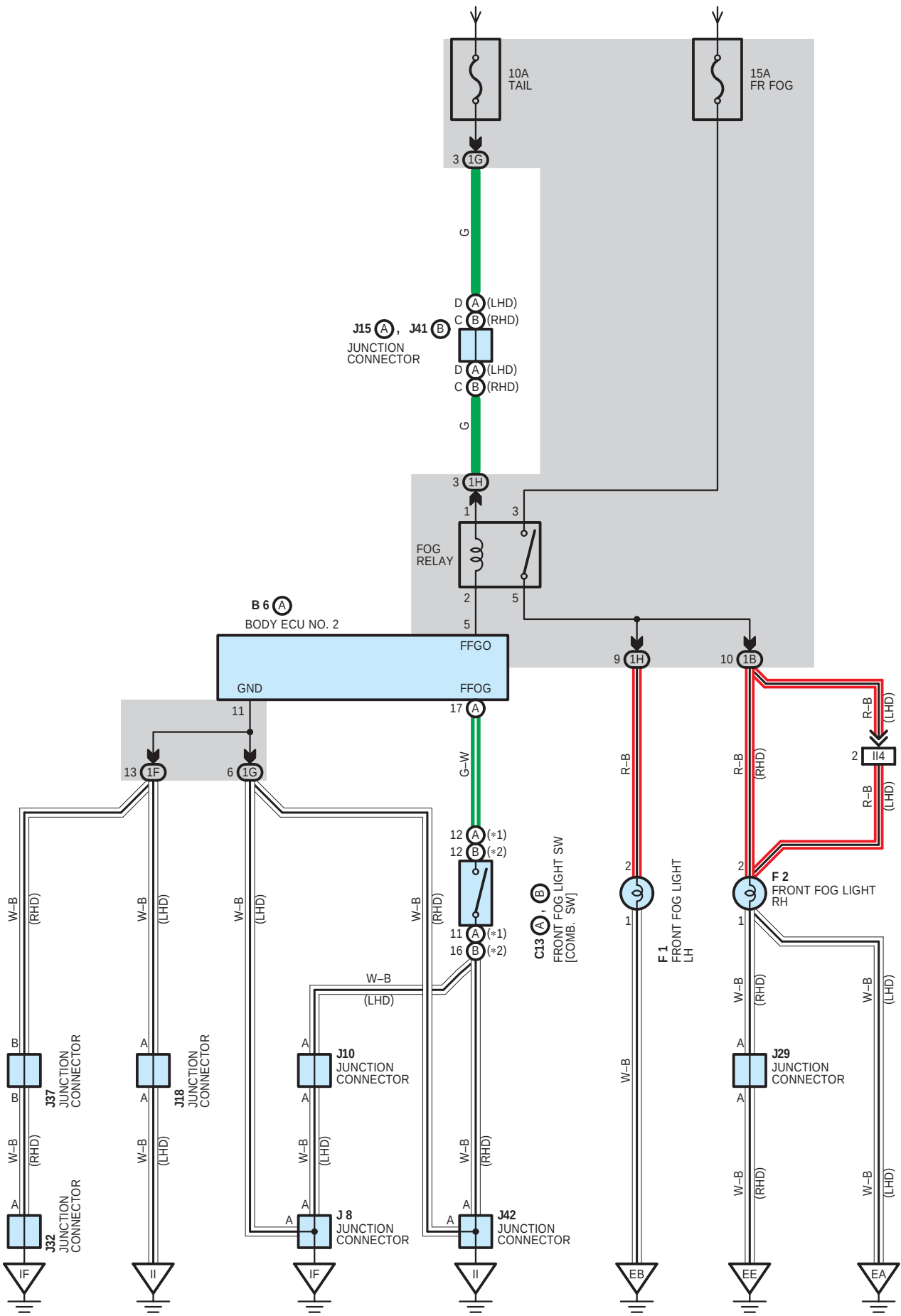
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



# FRONT FOG LIGHT

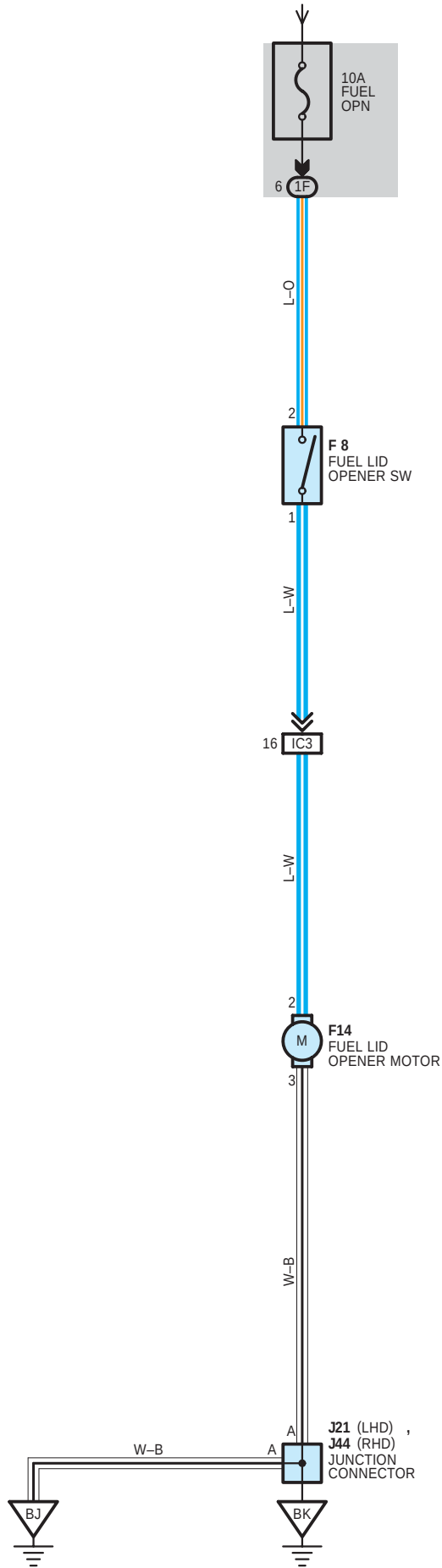
\* 1 : EXCEPT AUSTRALIA  
\* 2 : AUSTRALIA

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



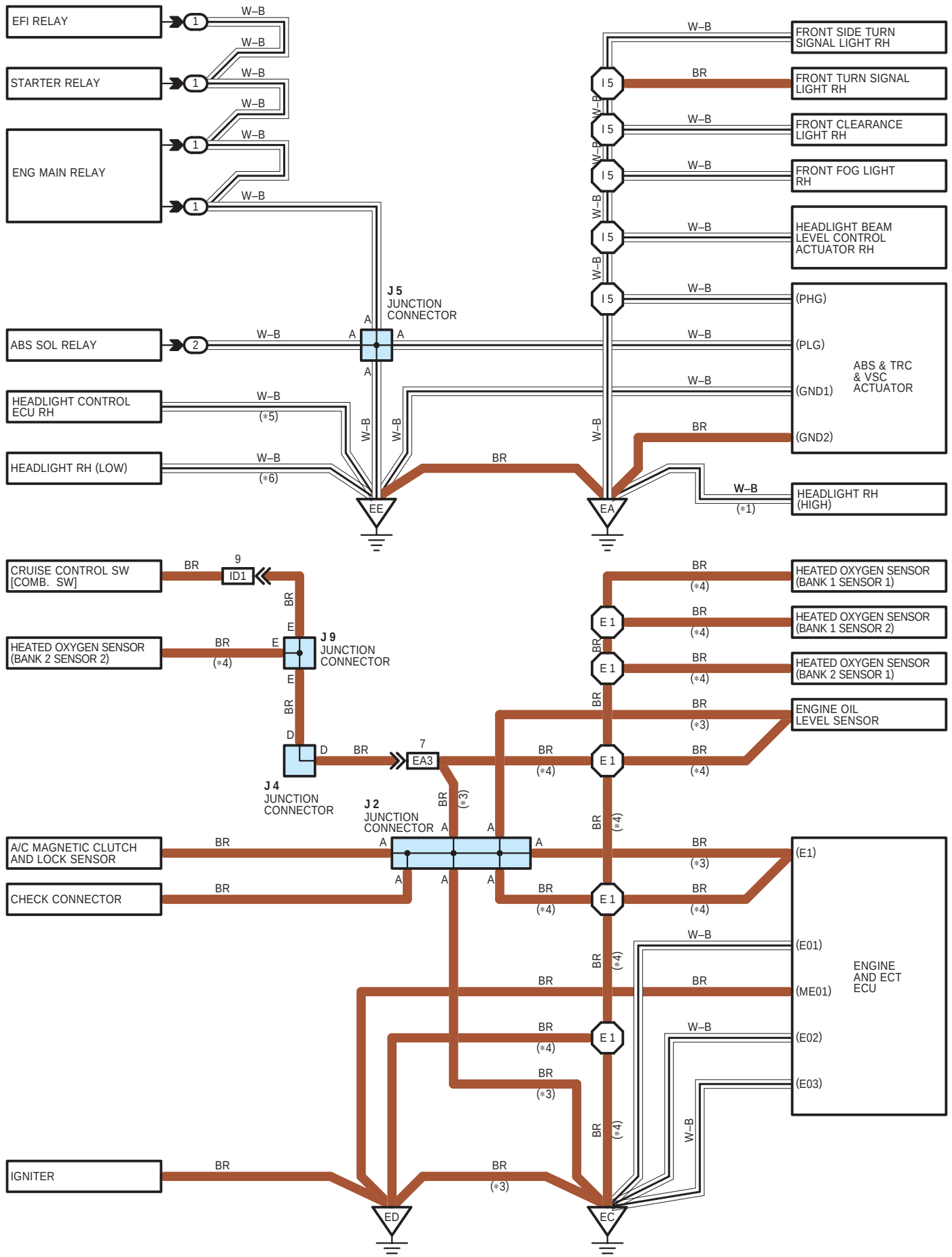
# FUEL LID OPENER

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



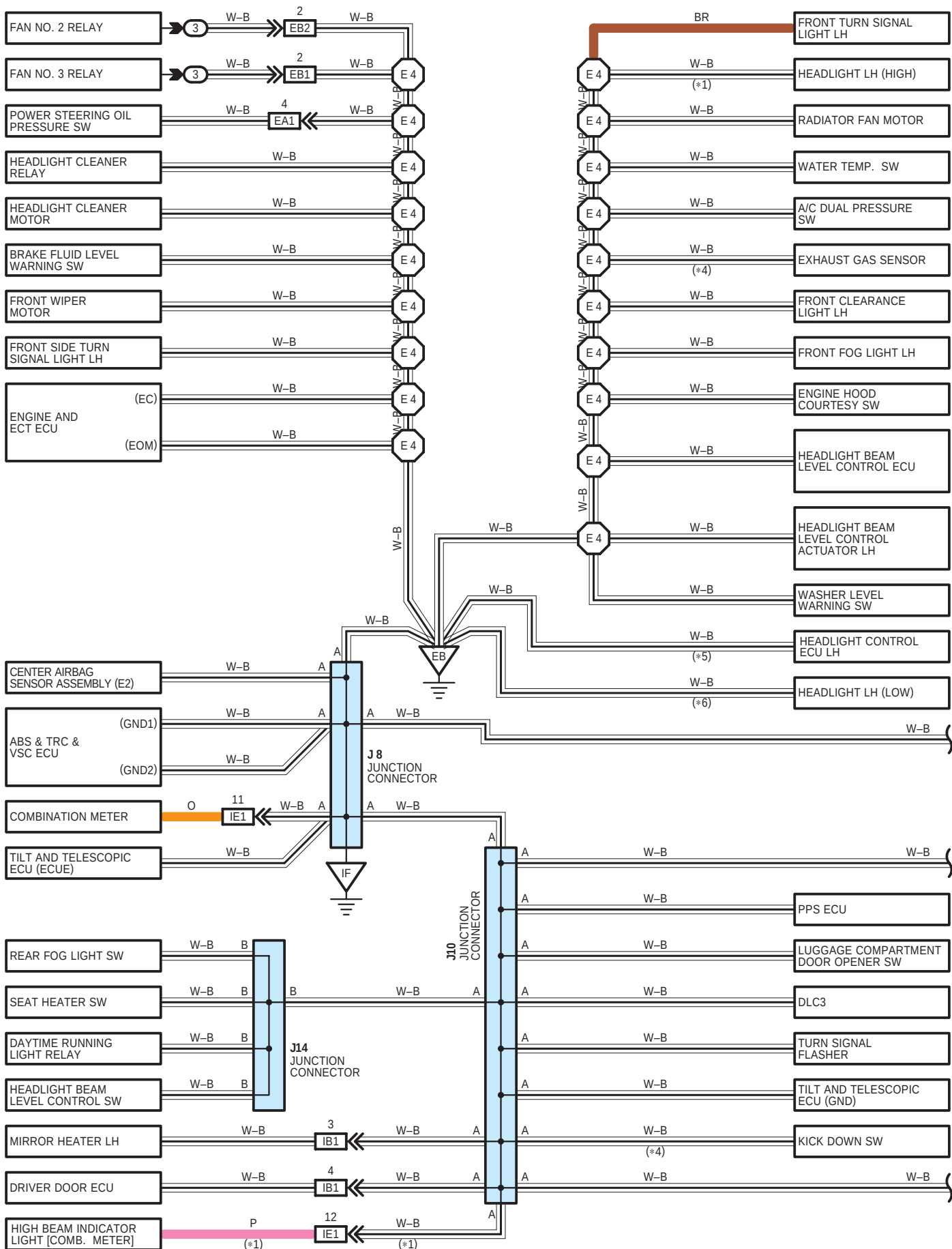


## J GROUND POINT (LHD)

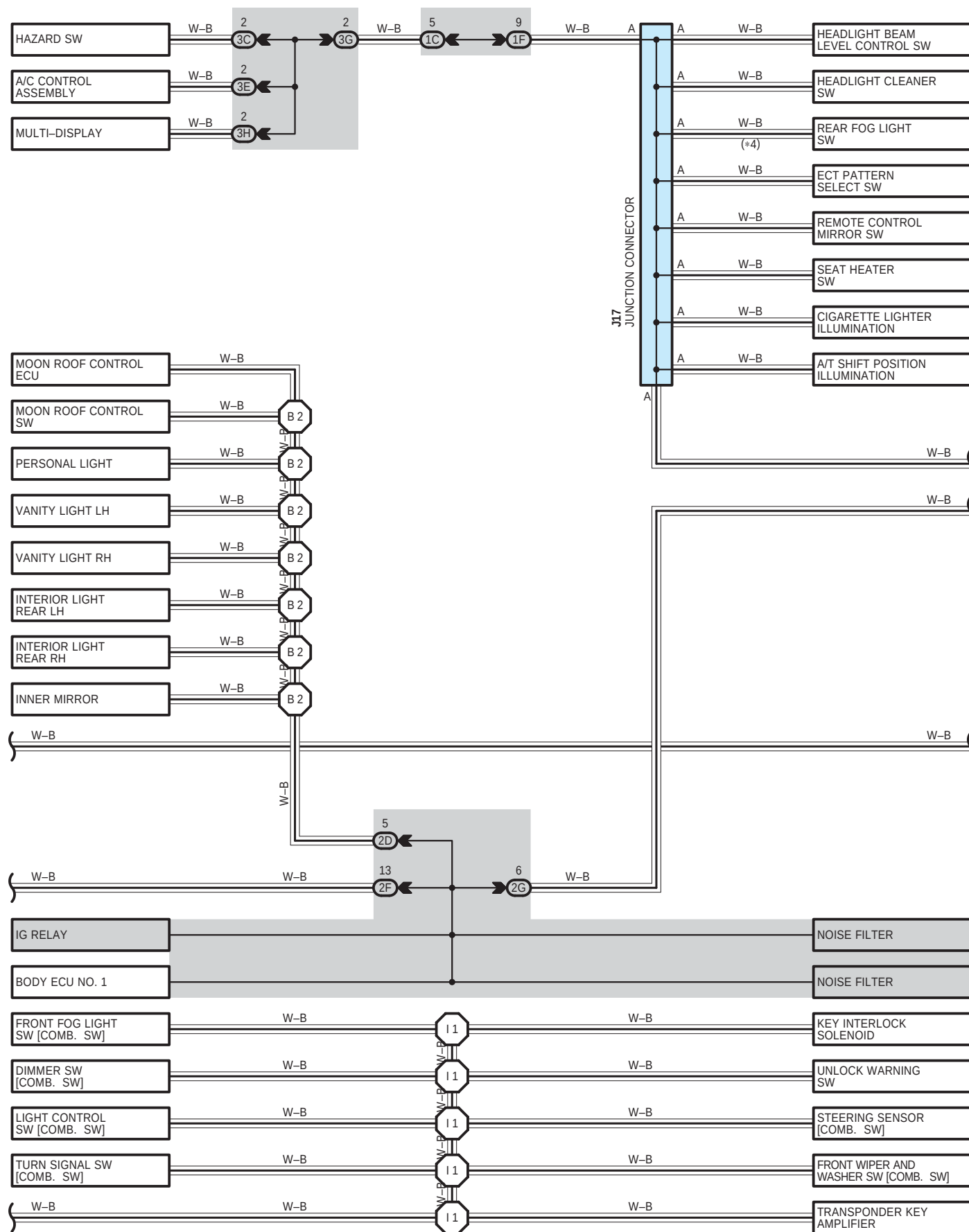


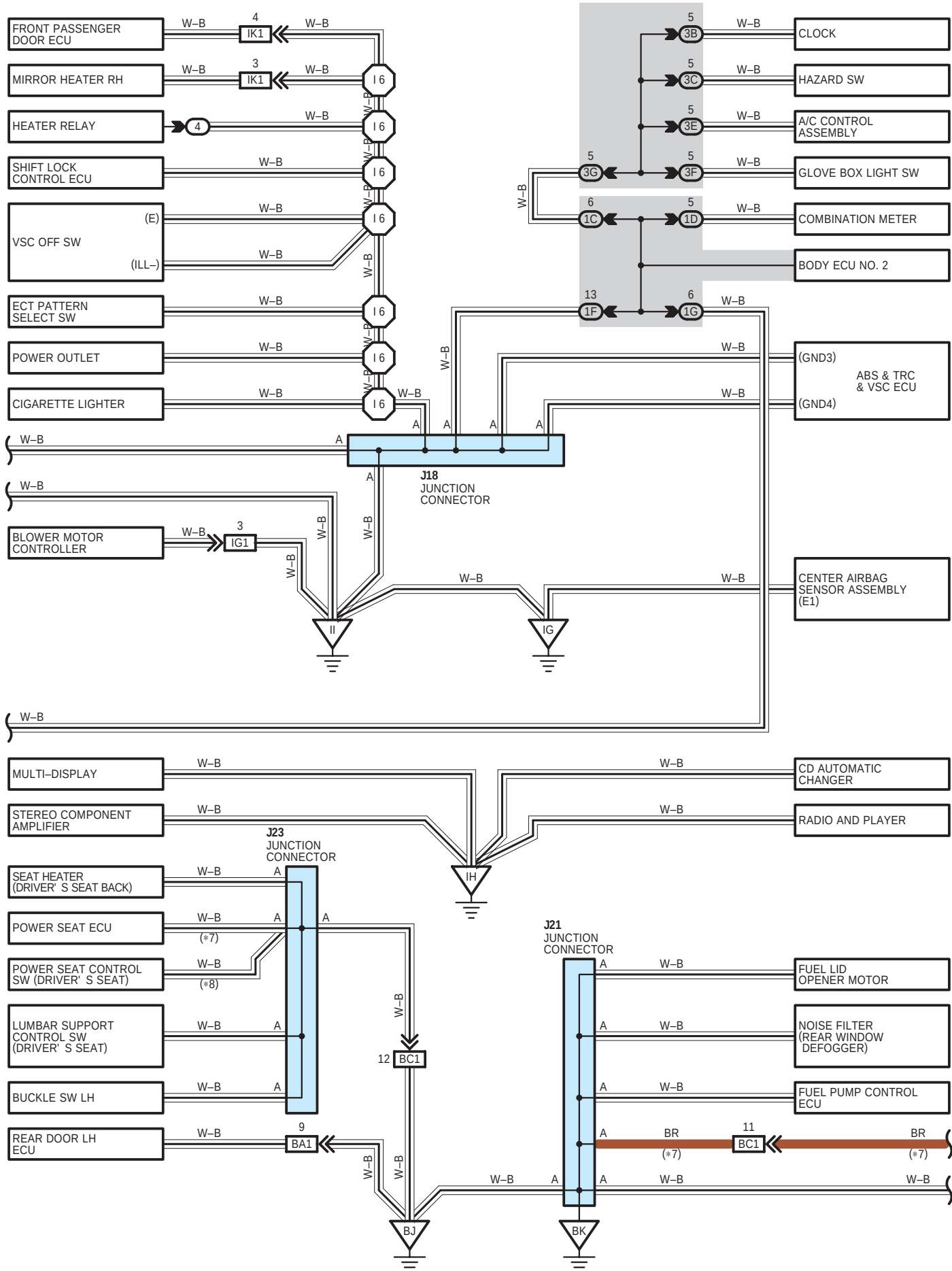
\* 1 : W/ DAYTIME RUNNING LIGHT  
 \* 2 : W/O DAYTIME RUNNING LIGHT  
 \* 3 : G. C. C.

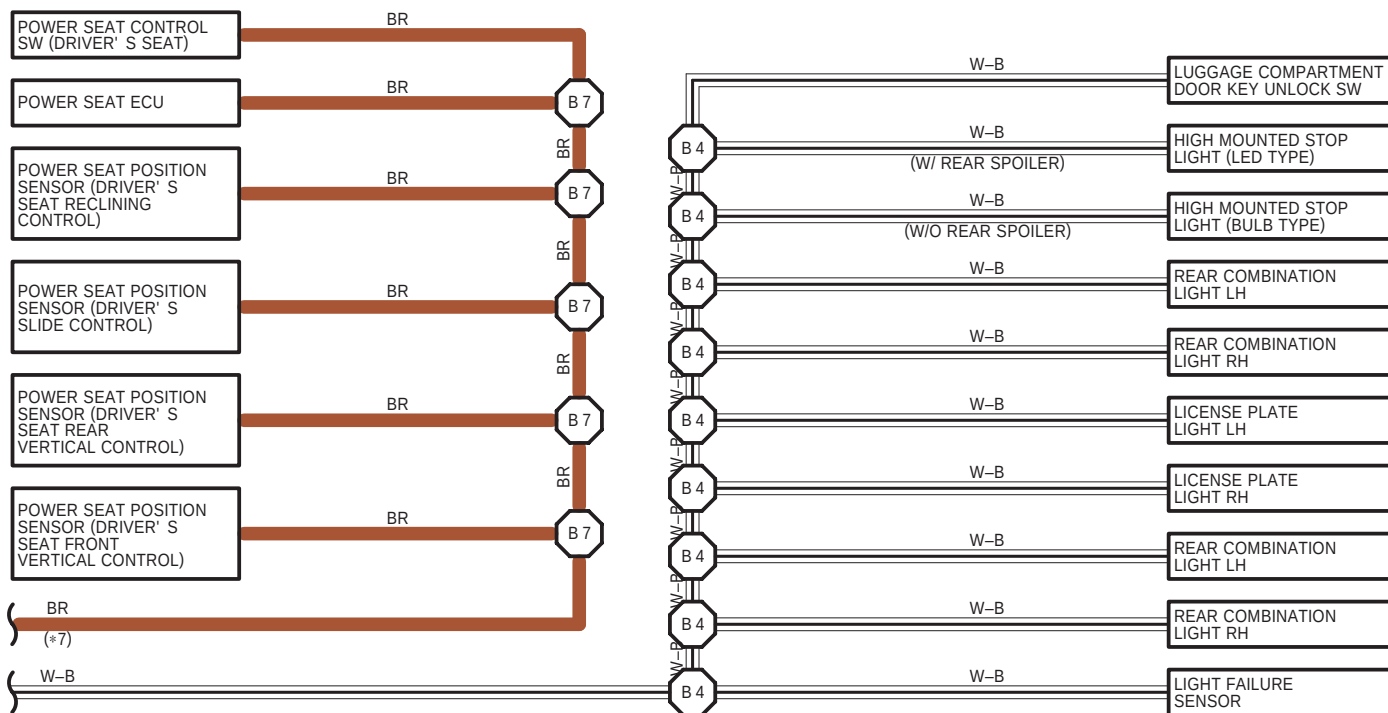
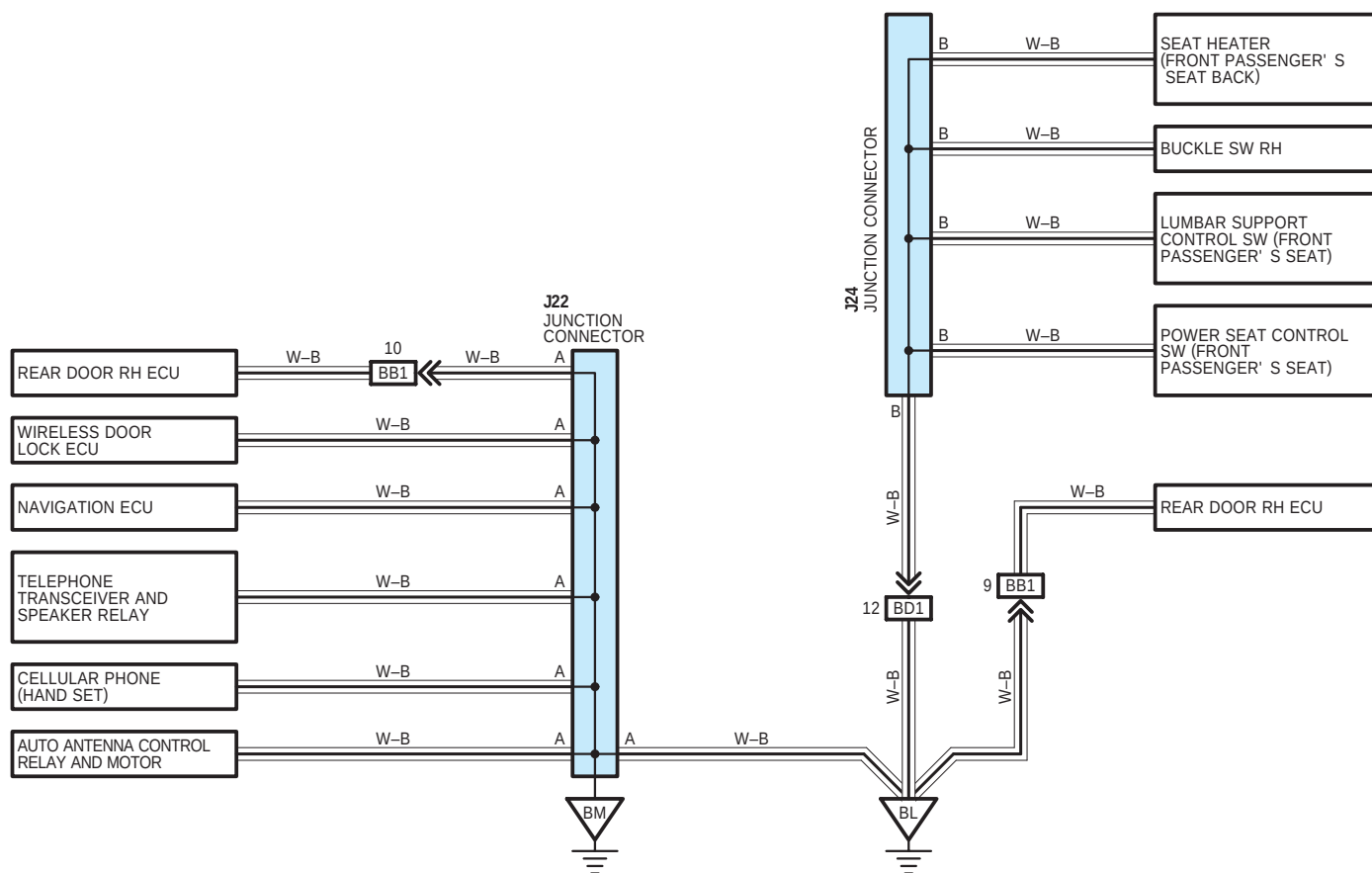
\* 4 : EUROPE  
 \* 5 : HID TYPE  
 \* 6 : EXCEPT HID TYPE



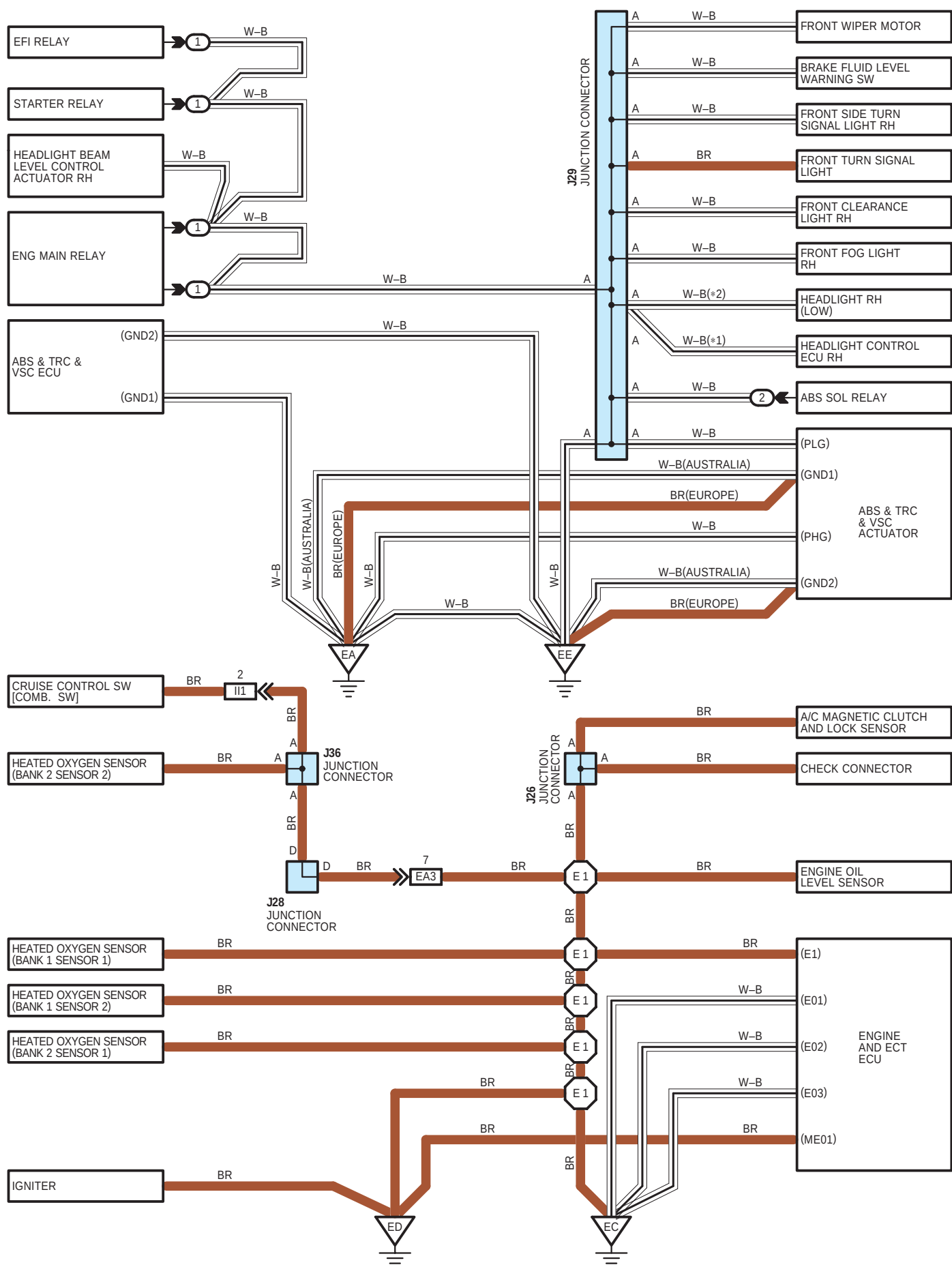
## J GROUND POINT (LHD)

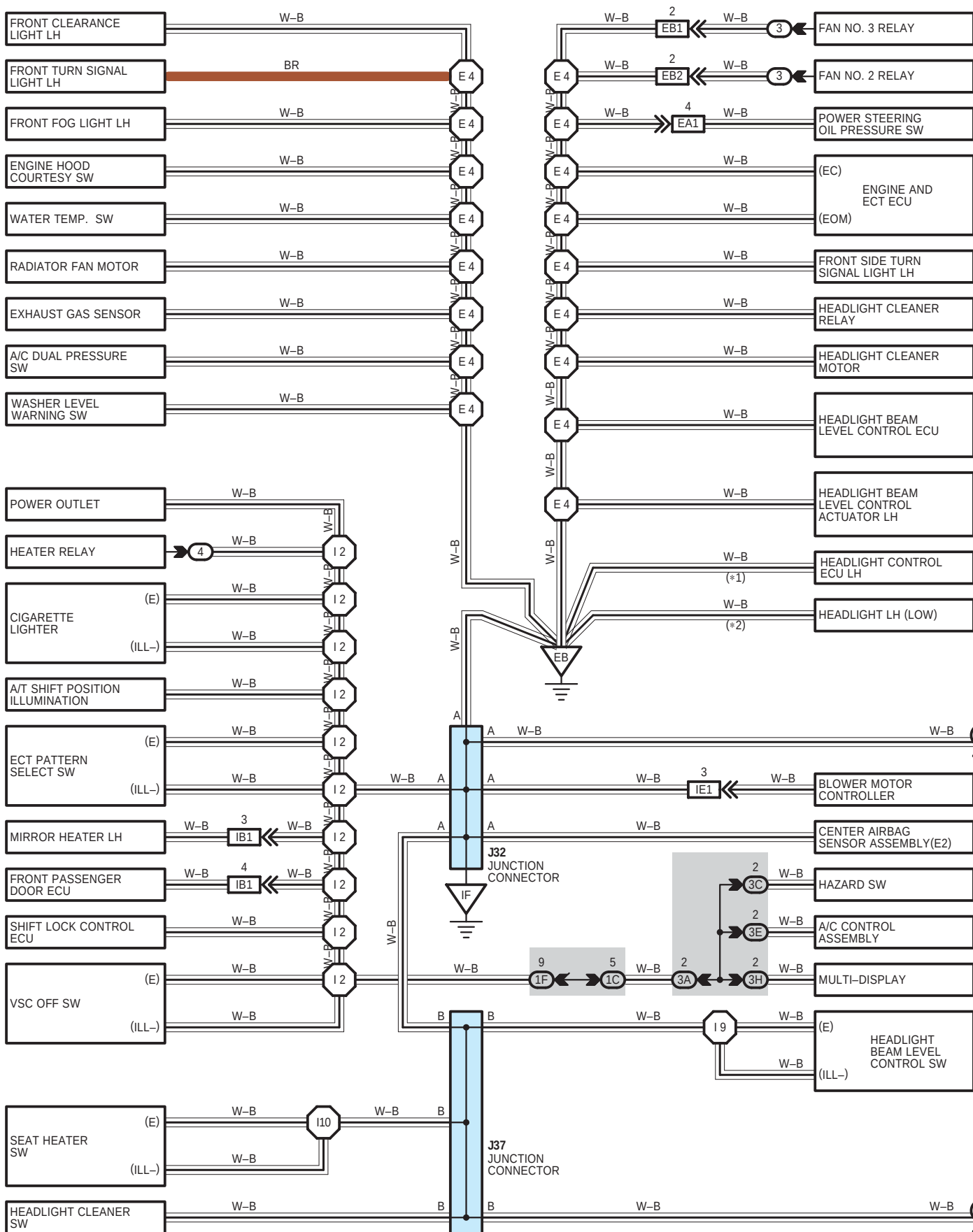




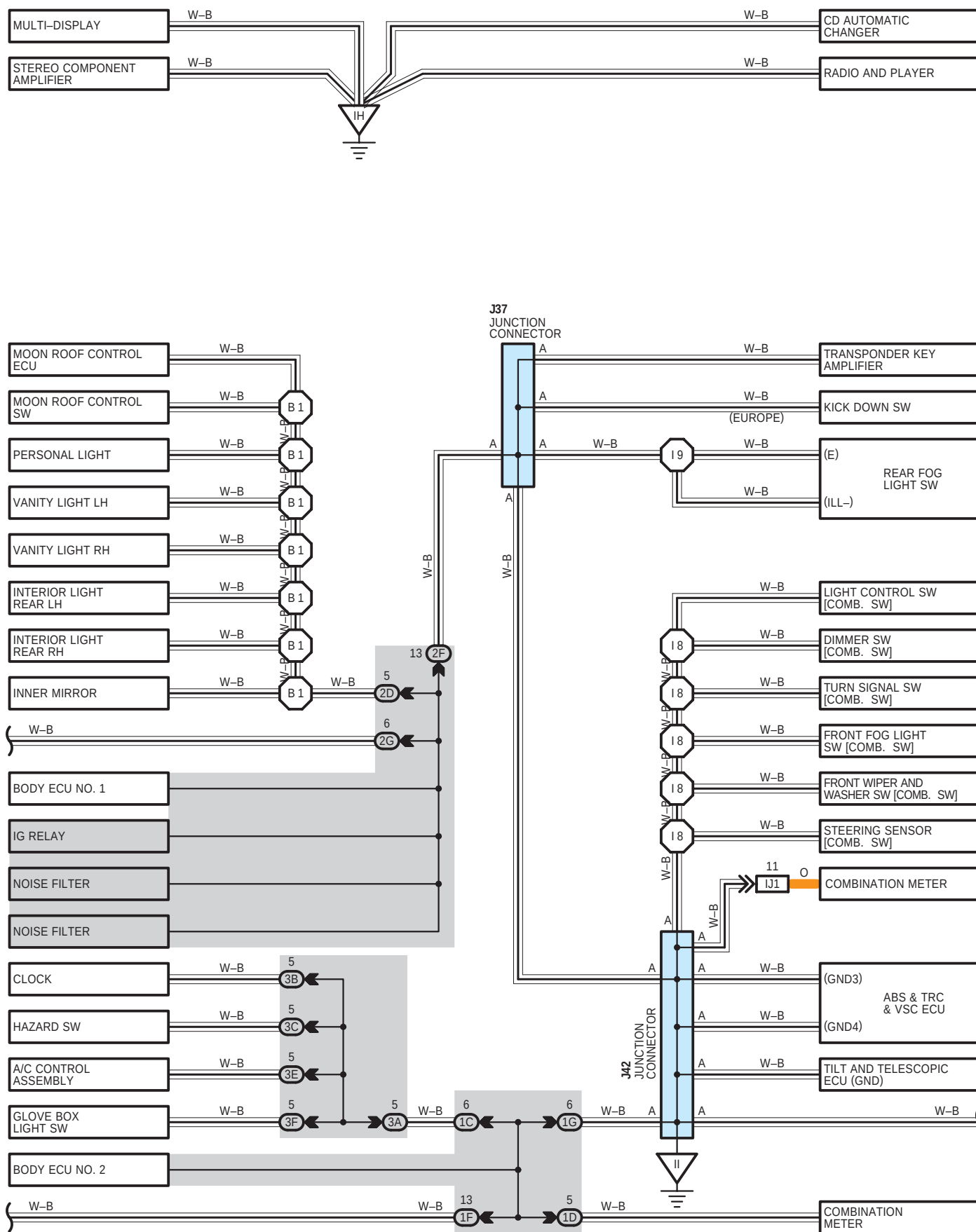


## J GROUND POINT (RHD)

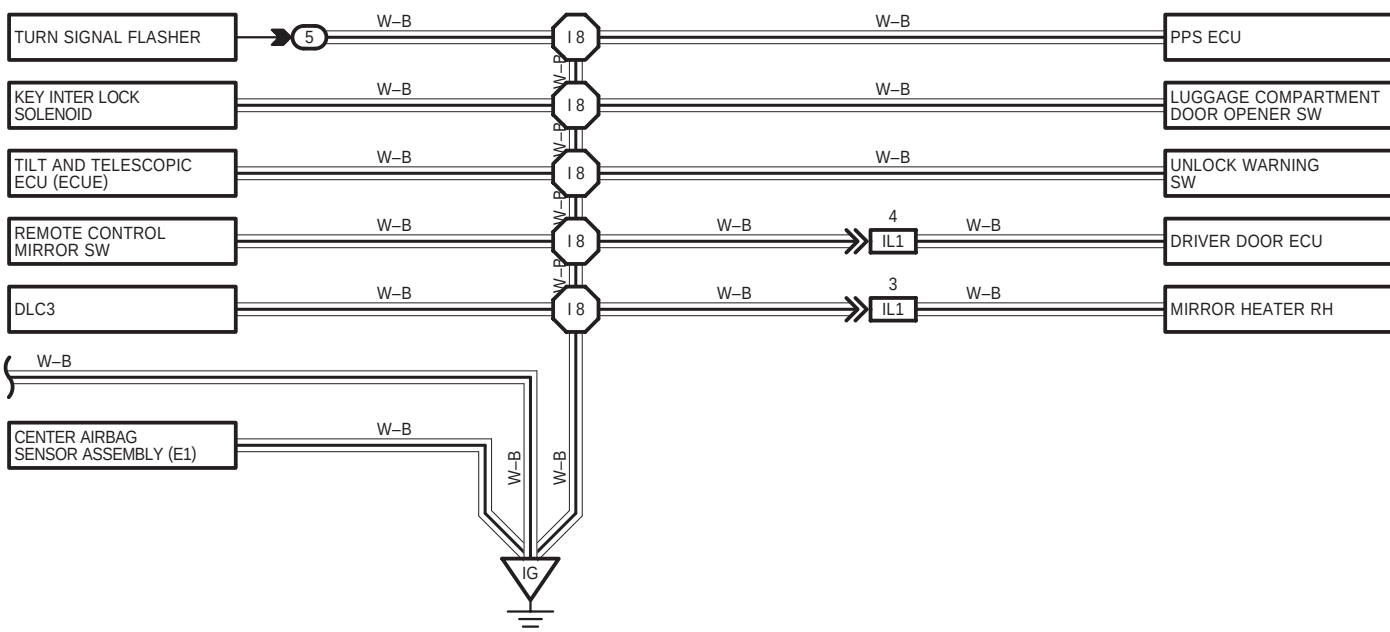
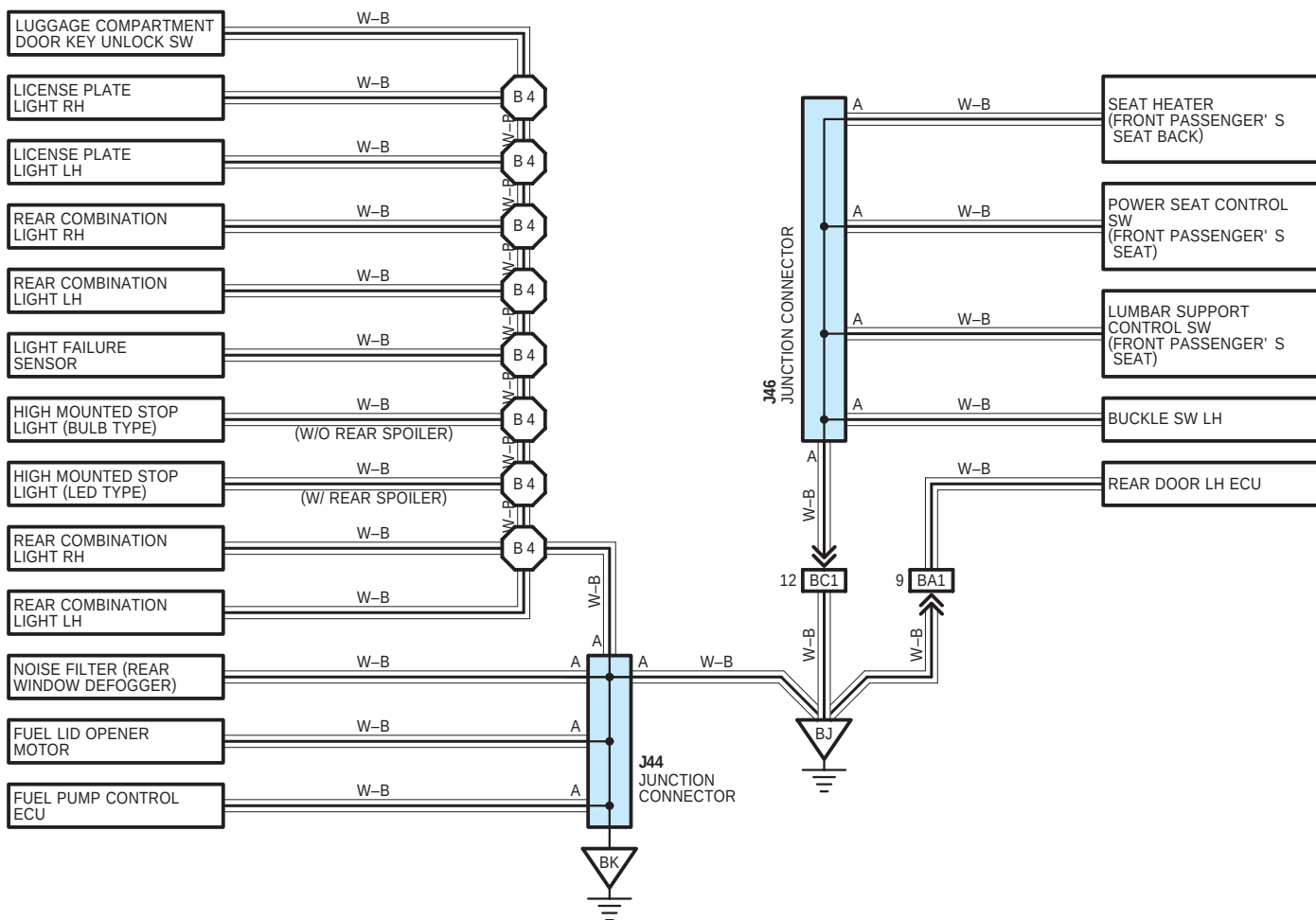




## J GROUND POINT (RHD)

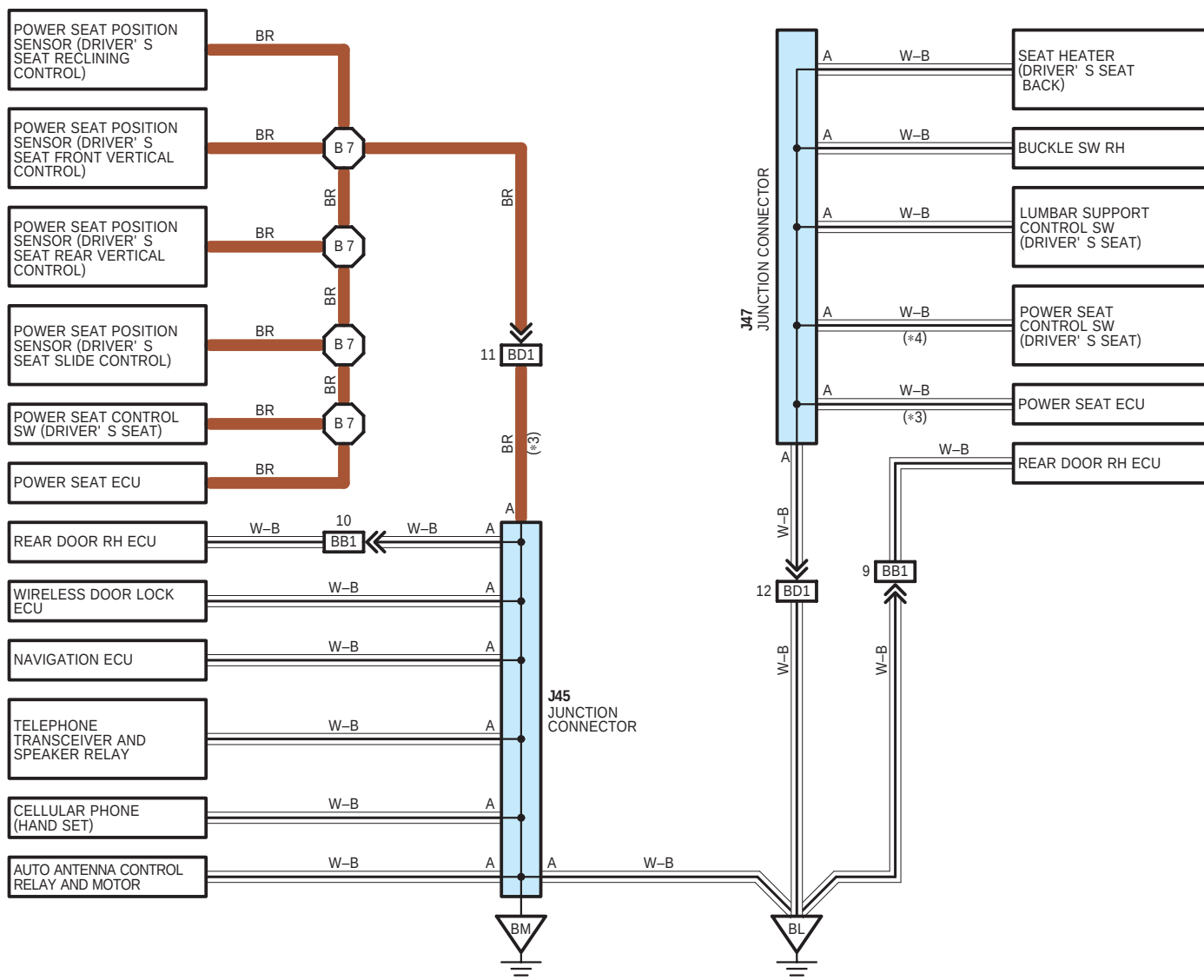






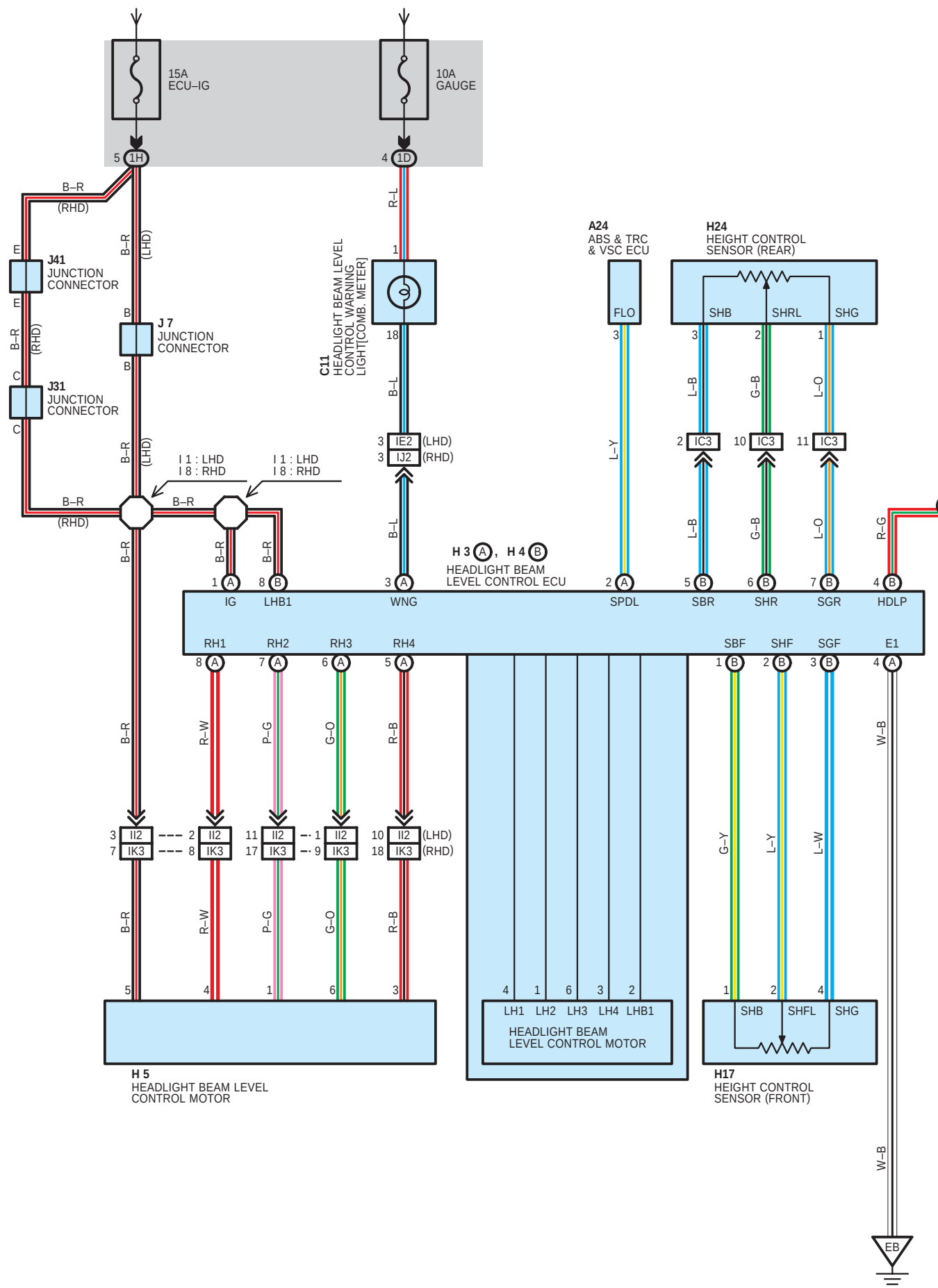
# J GROUND POINT (RHD)

\* 3 : W/ DRIVING POSITION MEMORY  
\* 4 : W/O DRIVING POSITION MEMORY

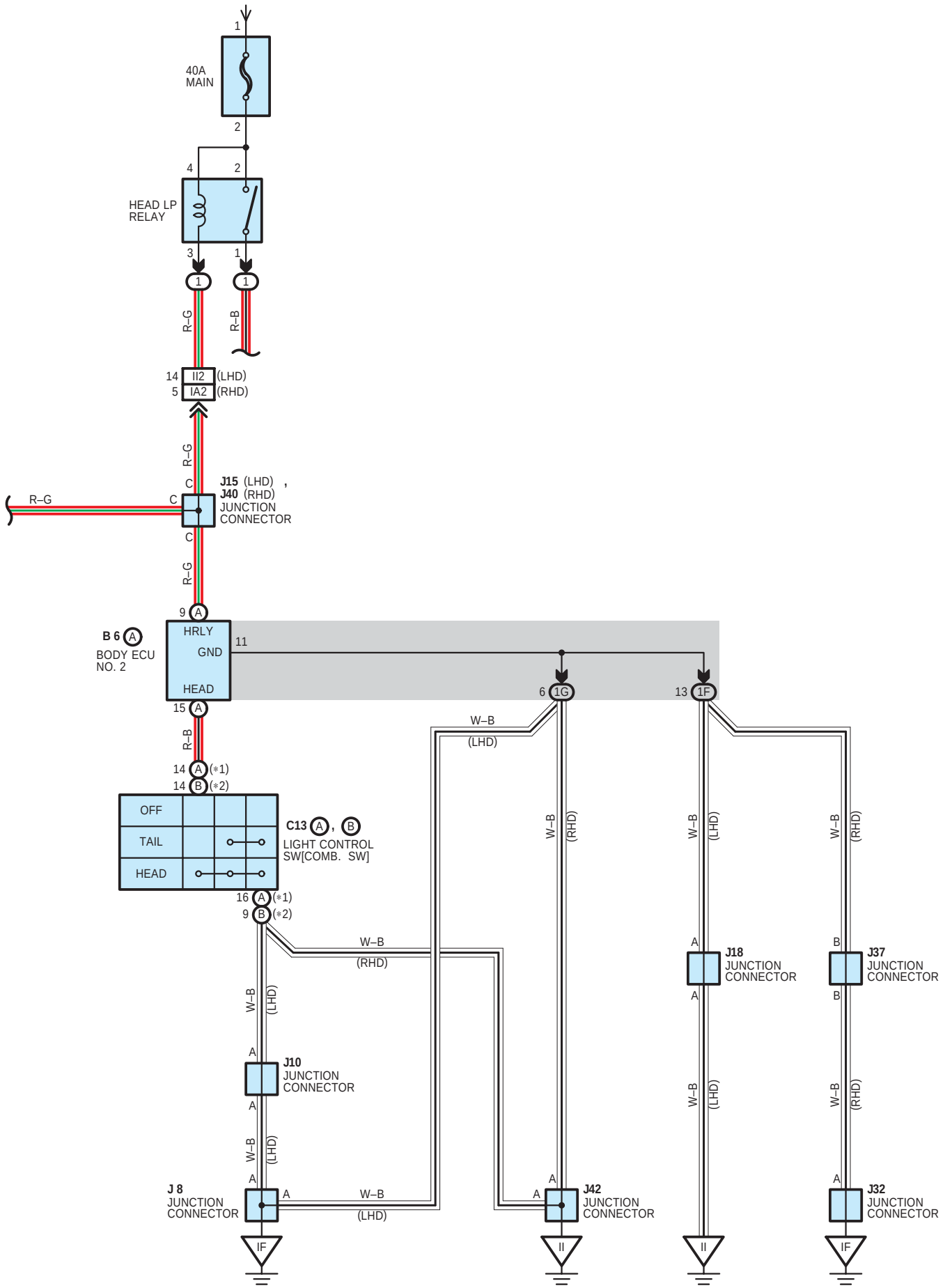


# HEADLIGHT BEAM LEVEL CONTROL (AUTOMATIC)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)

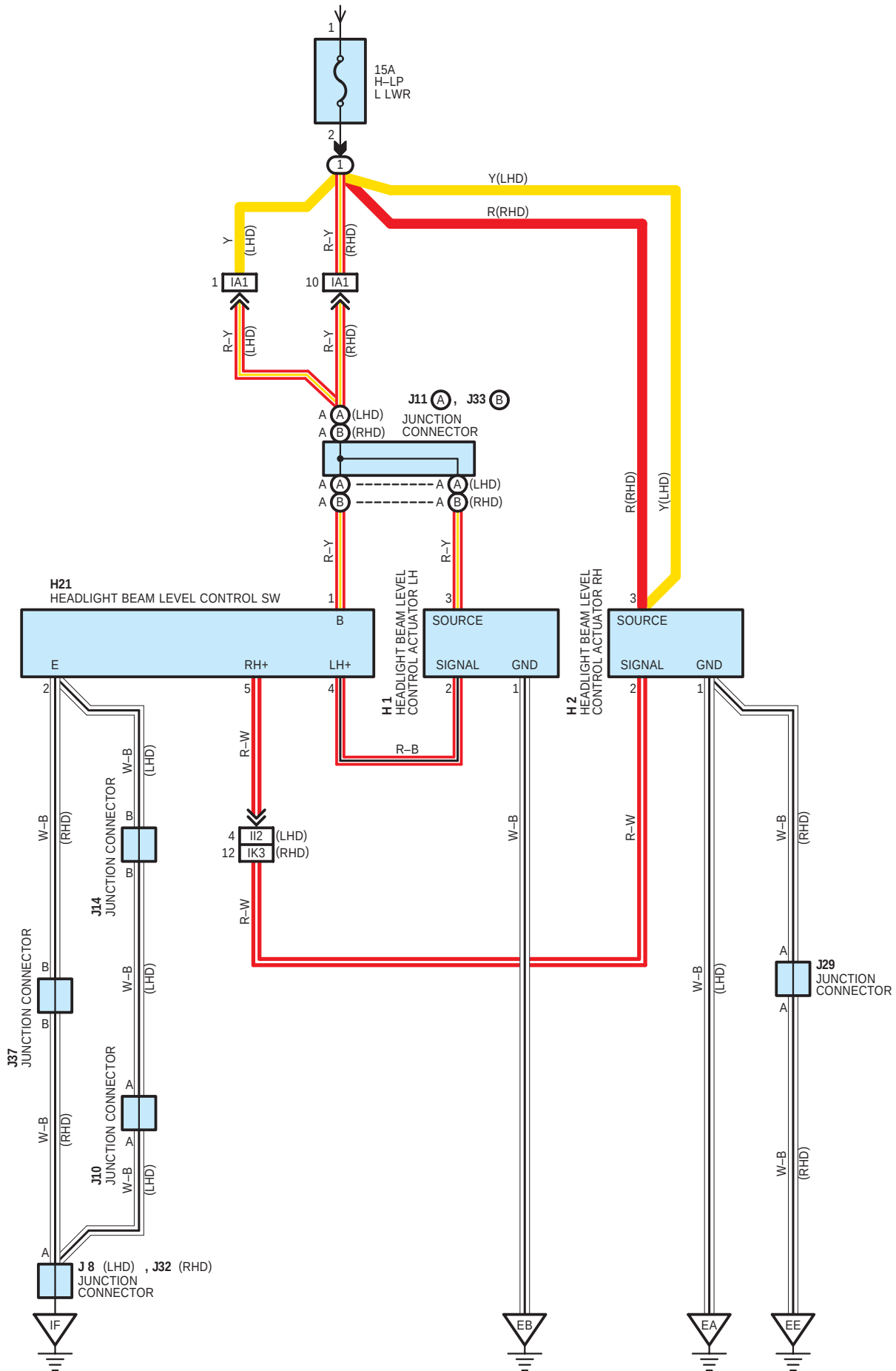


FROM POWER SOURCE SYSTEM (SEE PAGE 134)



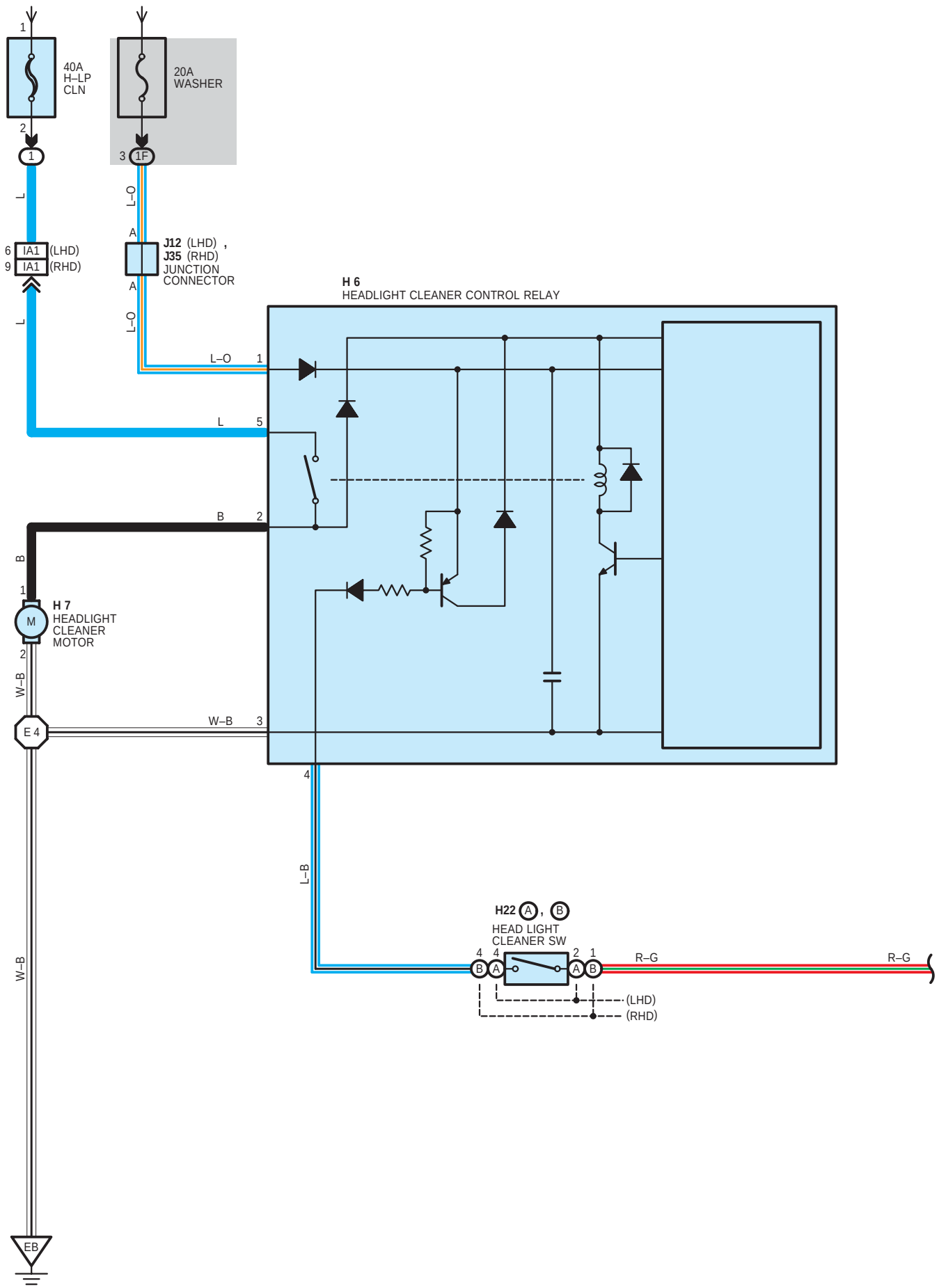
# HEADLIGHT BEAM LEVEL CONTROL (MANUAL)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



# HEADLIGHT CLEANER

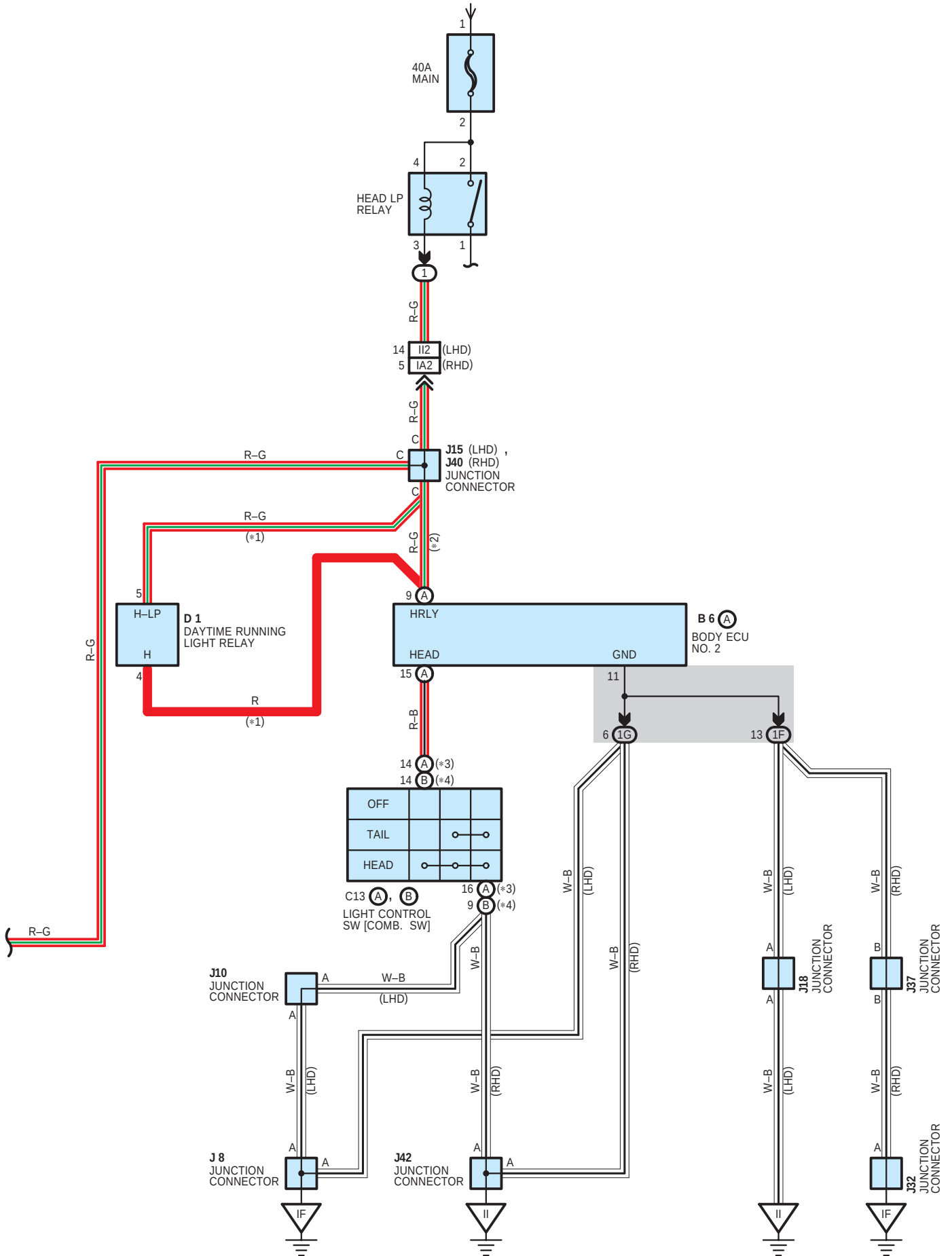
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



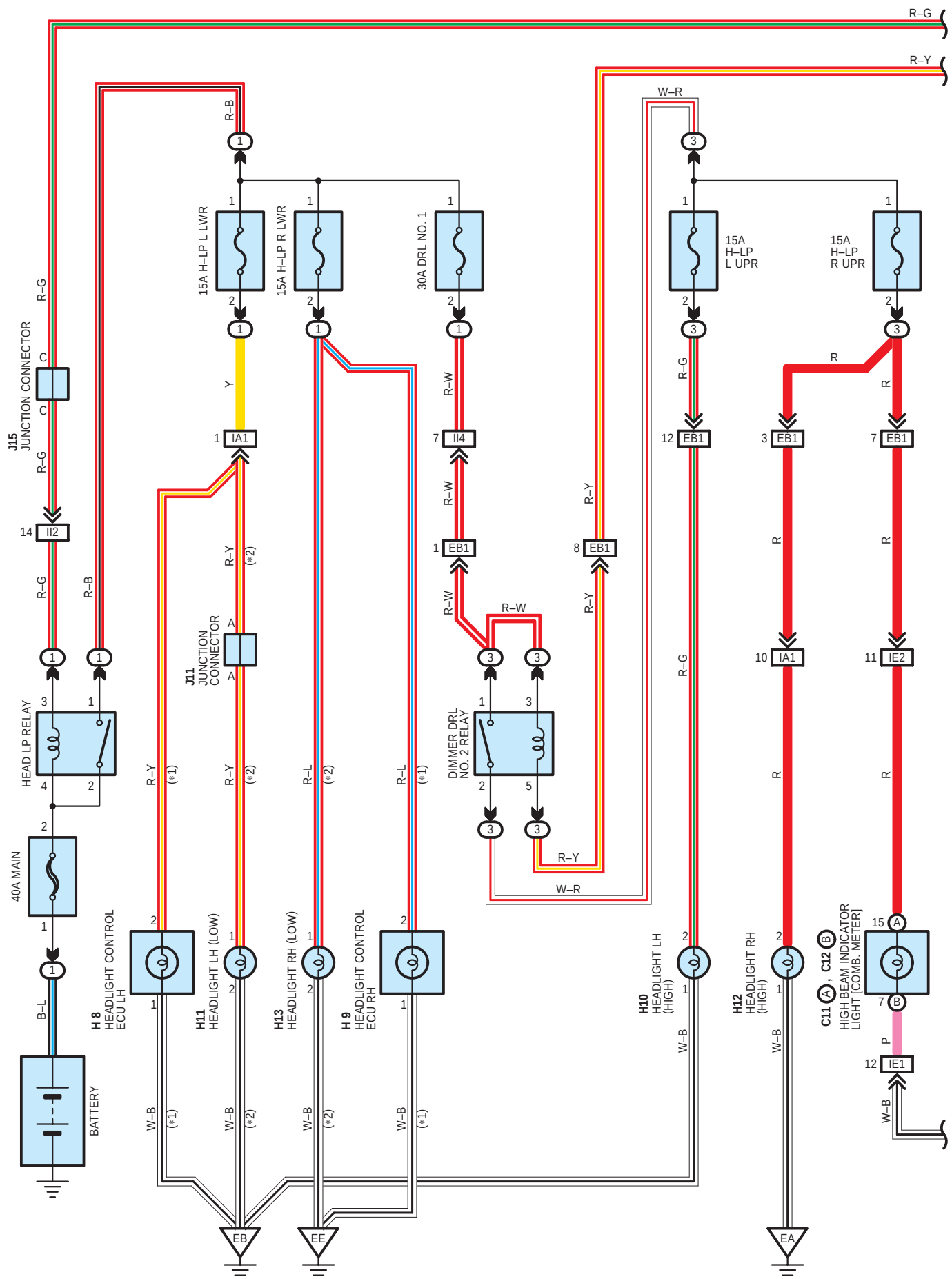
\* 1 : W/ DAYTIME RUNNING LIGHT  
 \* 2 : W/O DAYTIME RUNNING LIGHT

\* 3 : EXCEPT AUSTRALIA  
 \* 4 : AUSTRALIA

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



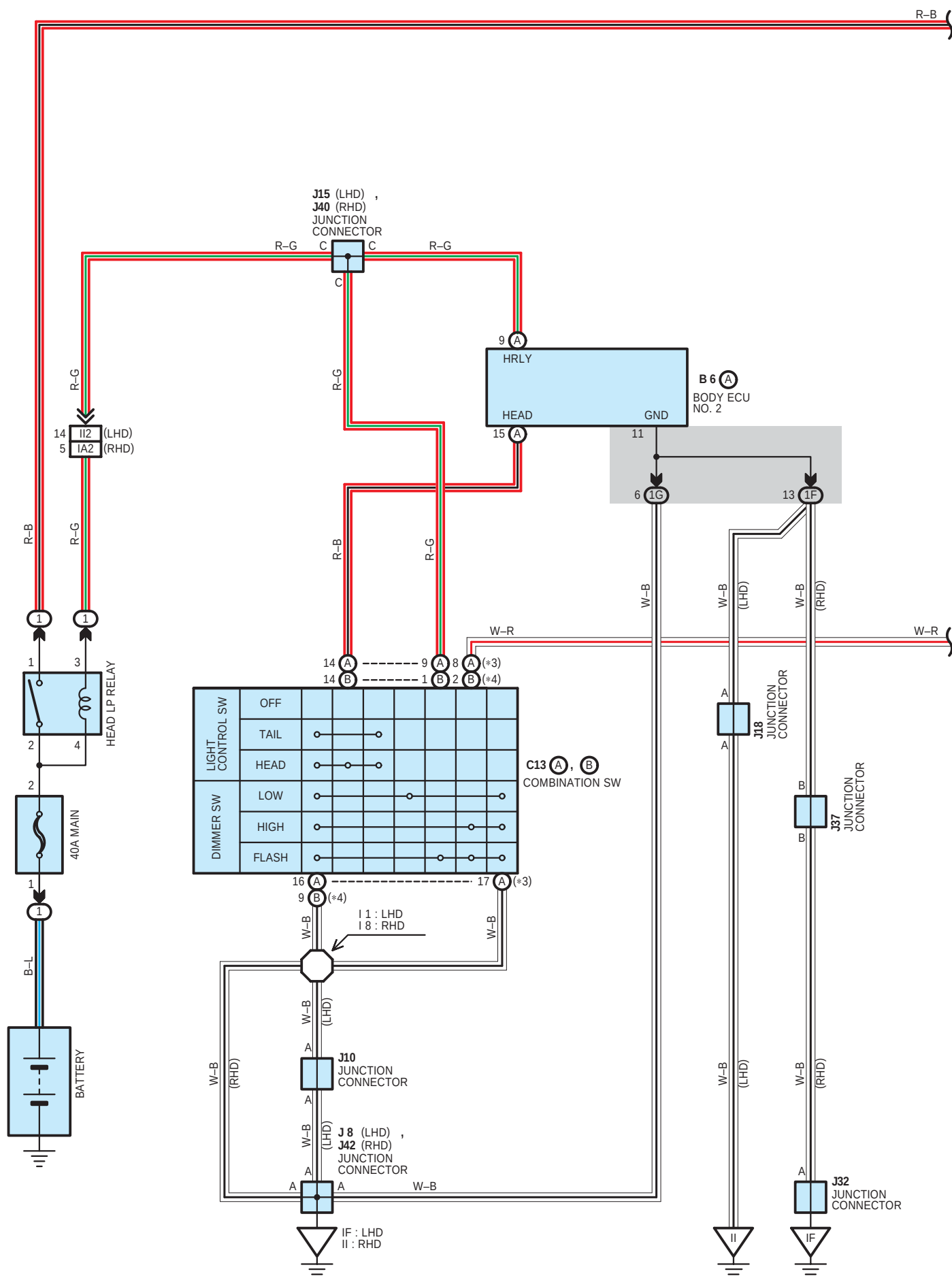
\_\_\_\_\_



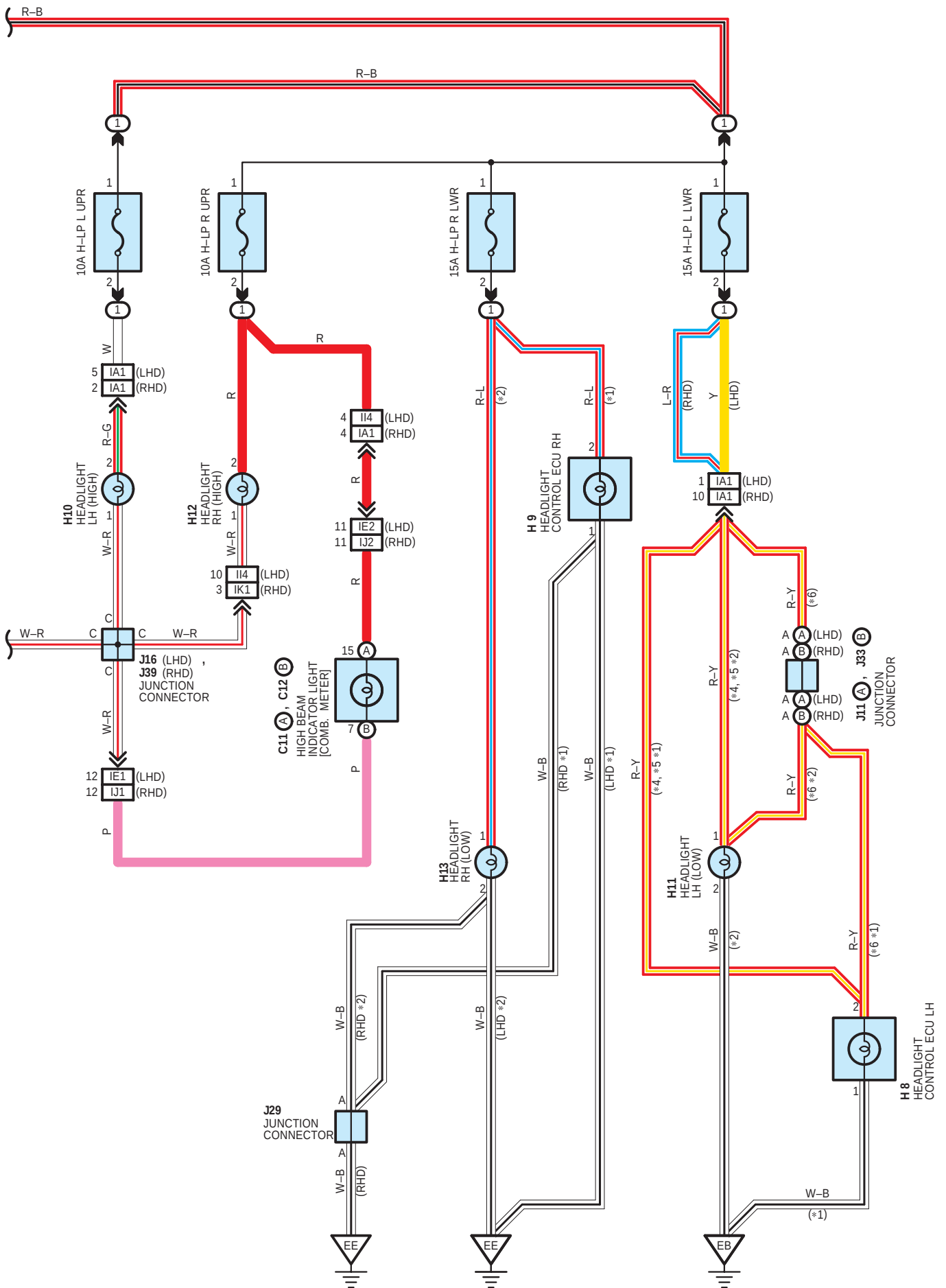




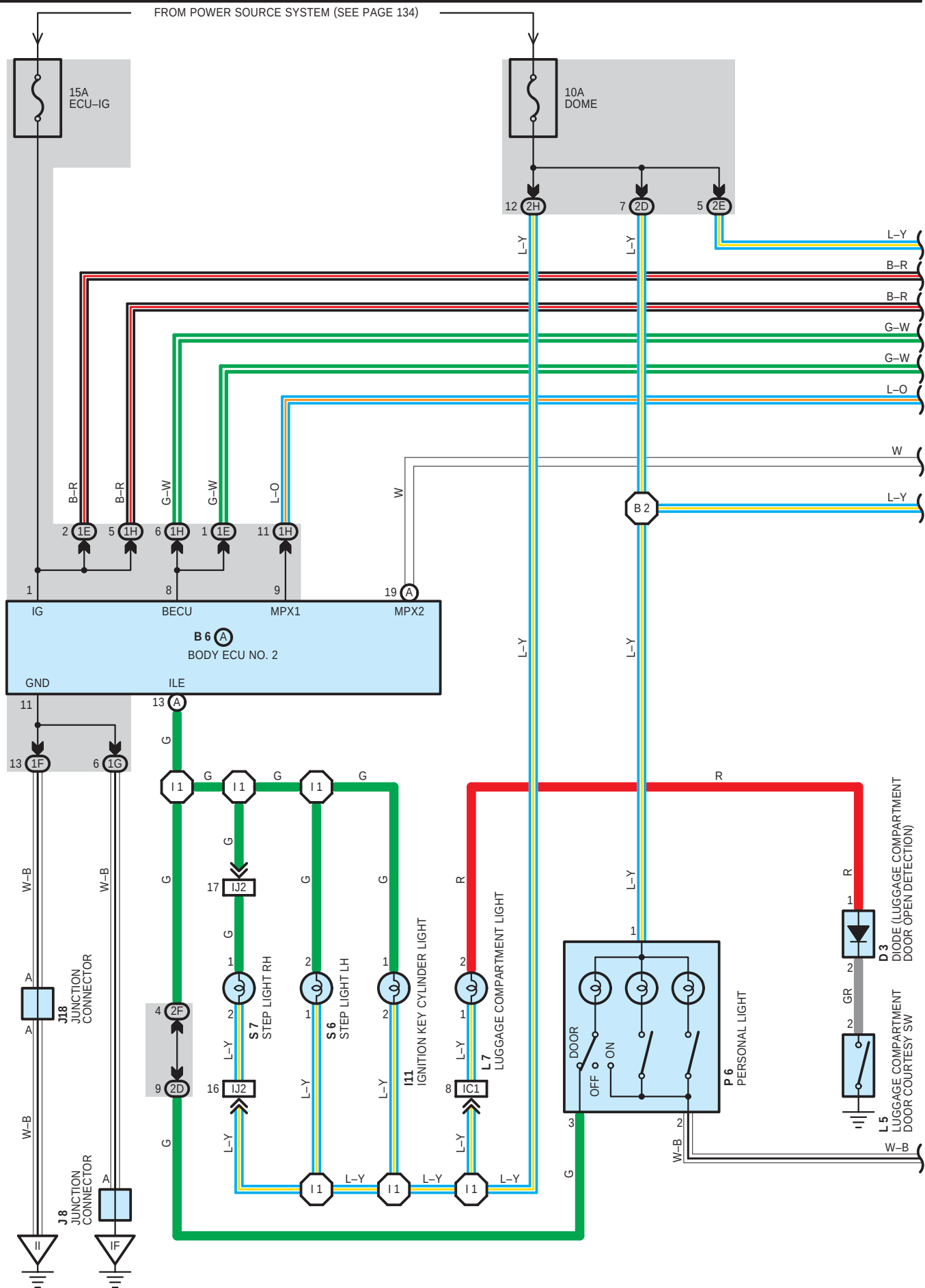
# HEADLIGHT (w/o DAYTIME RUNNING LIGHT)

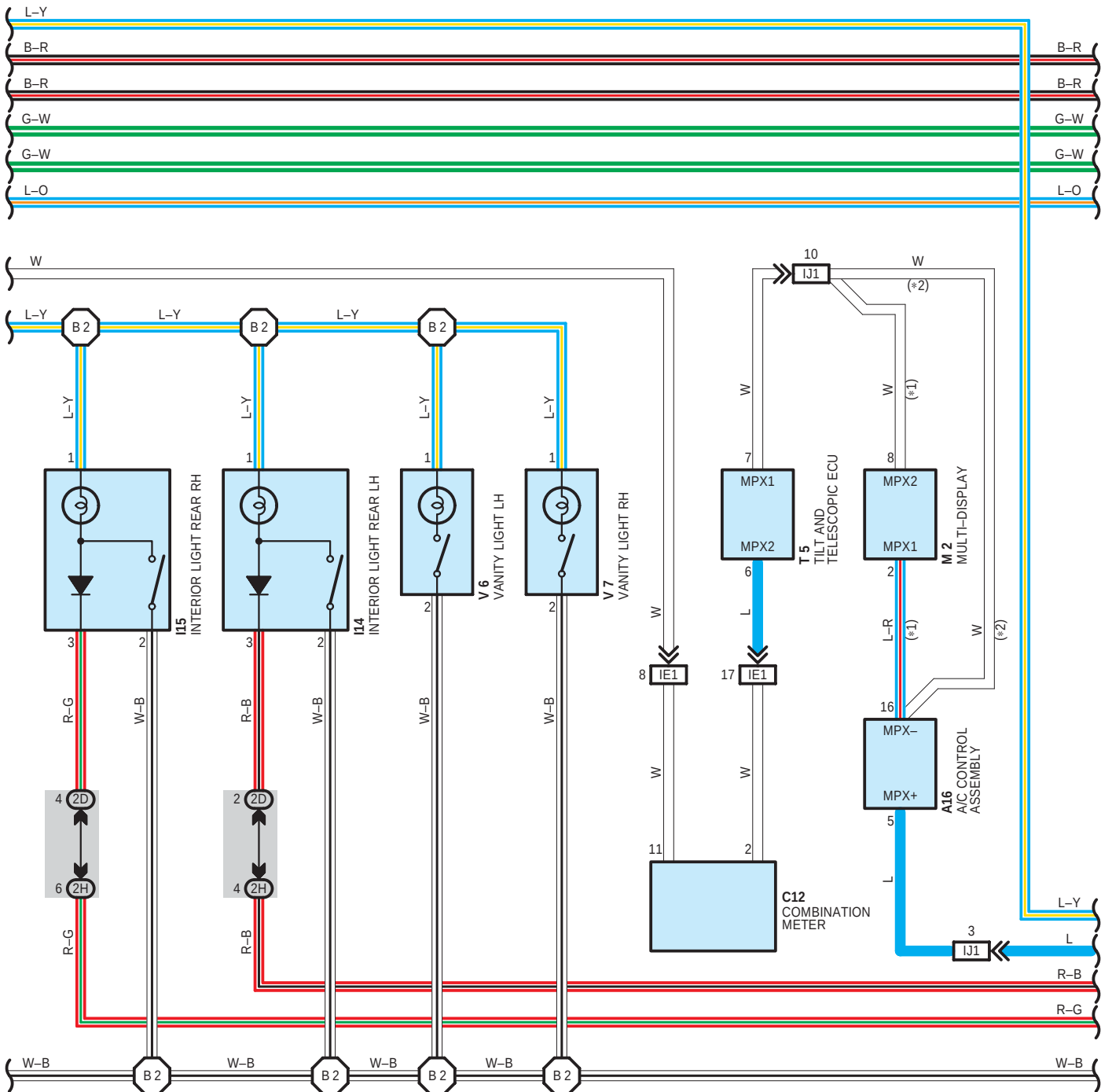


- \* 1 : HID TYPE
- \* 2 : EXCEPT HID TYPE
- \* 3 : EXCEPT AUSTRALIA
- \* 4 : AUSTRALIA
- \* 5 : G. C. C.
- \* 6 : EUROPE



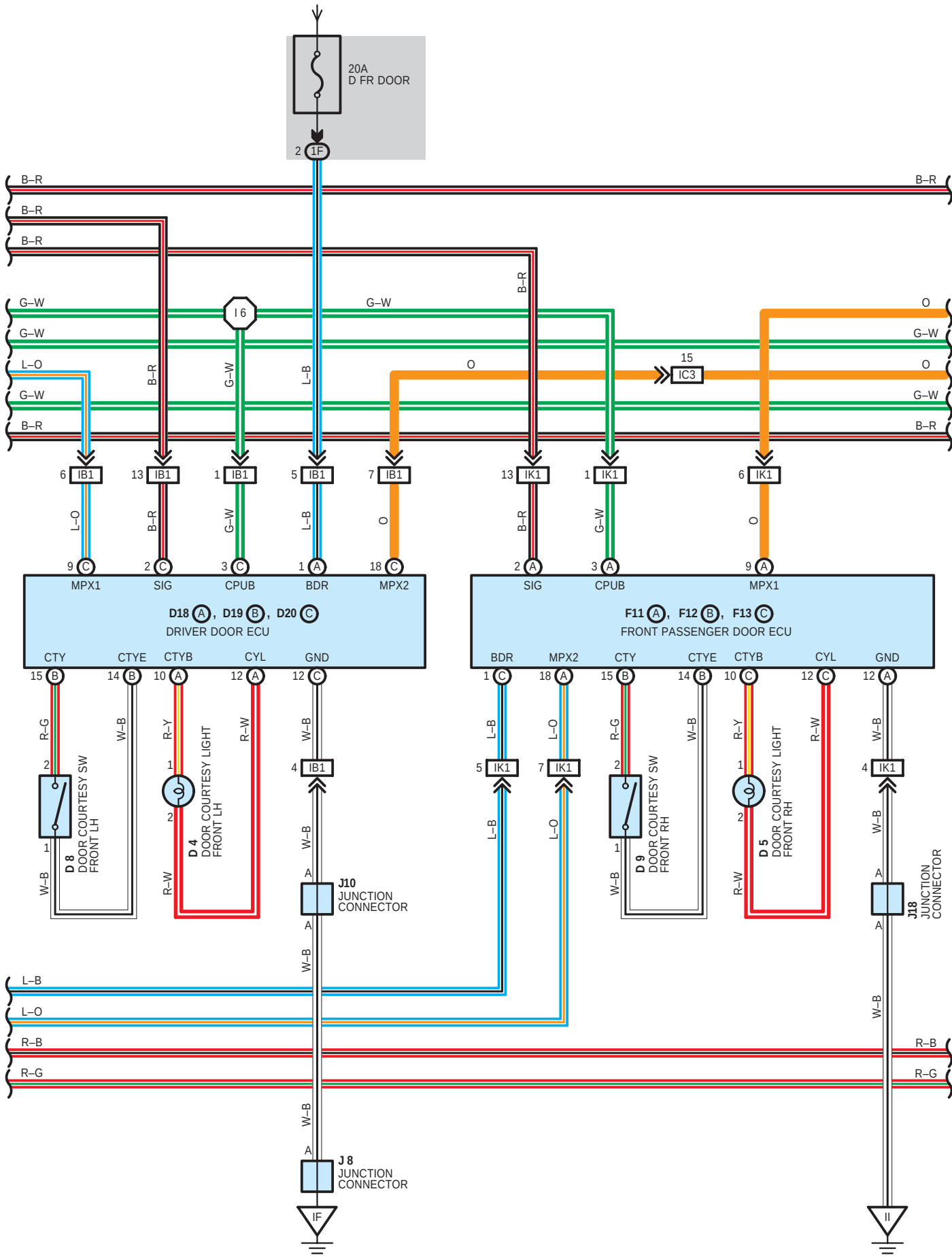






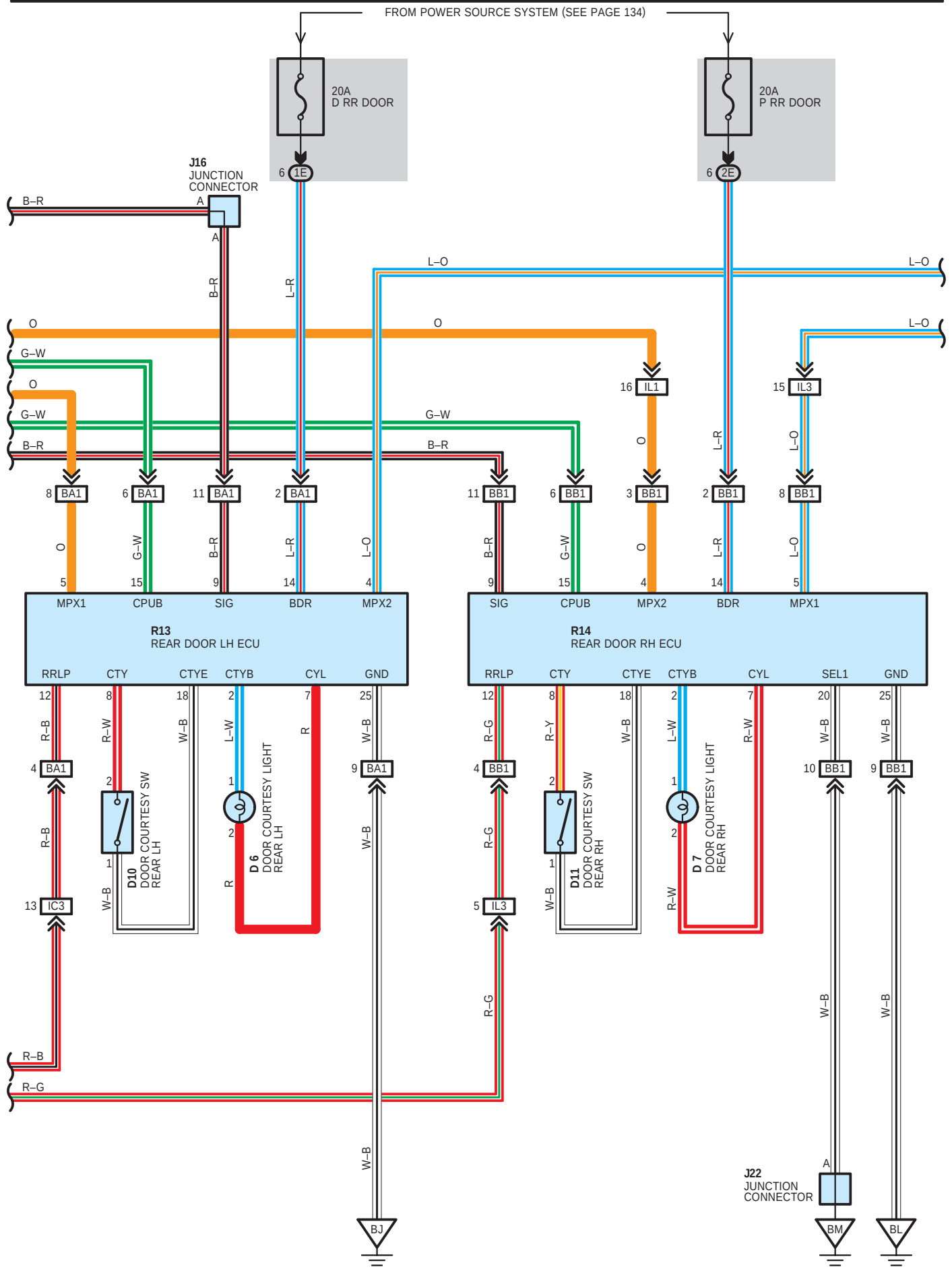
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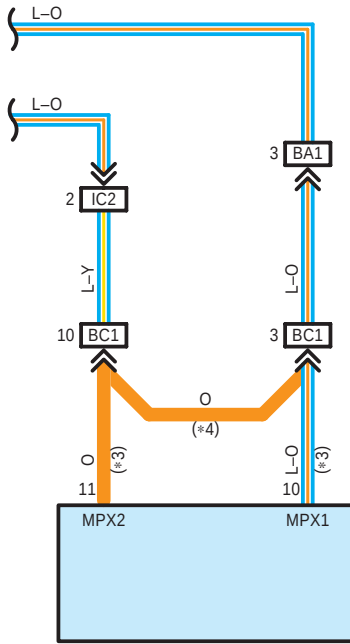






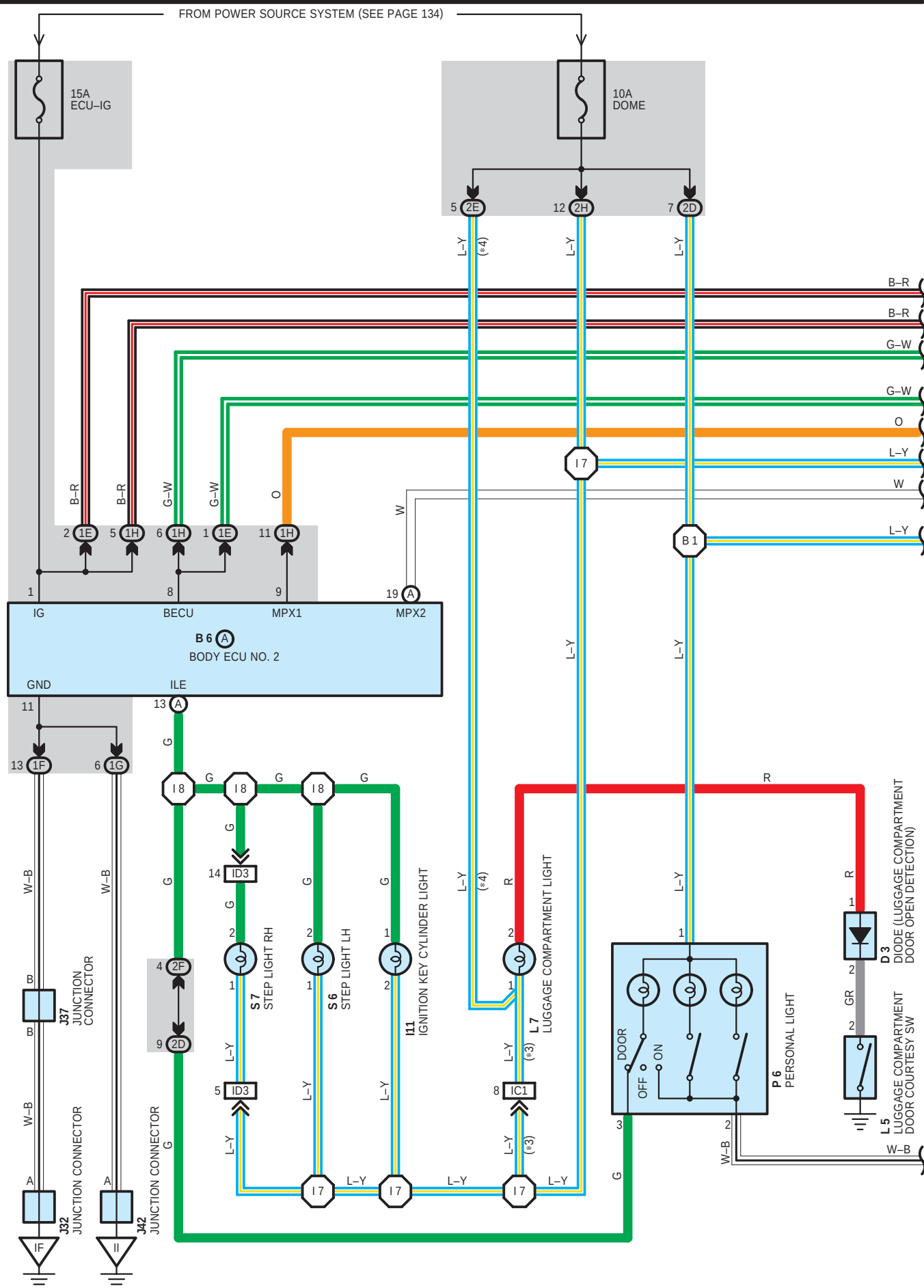
# INTERIOR LIGHT (LHD)

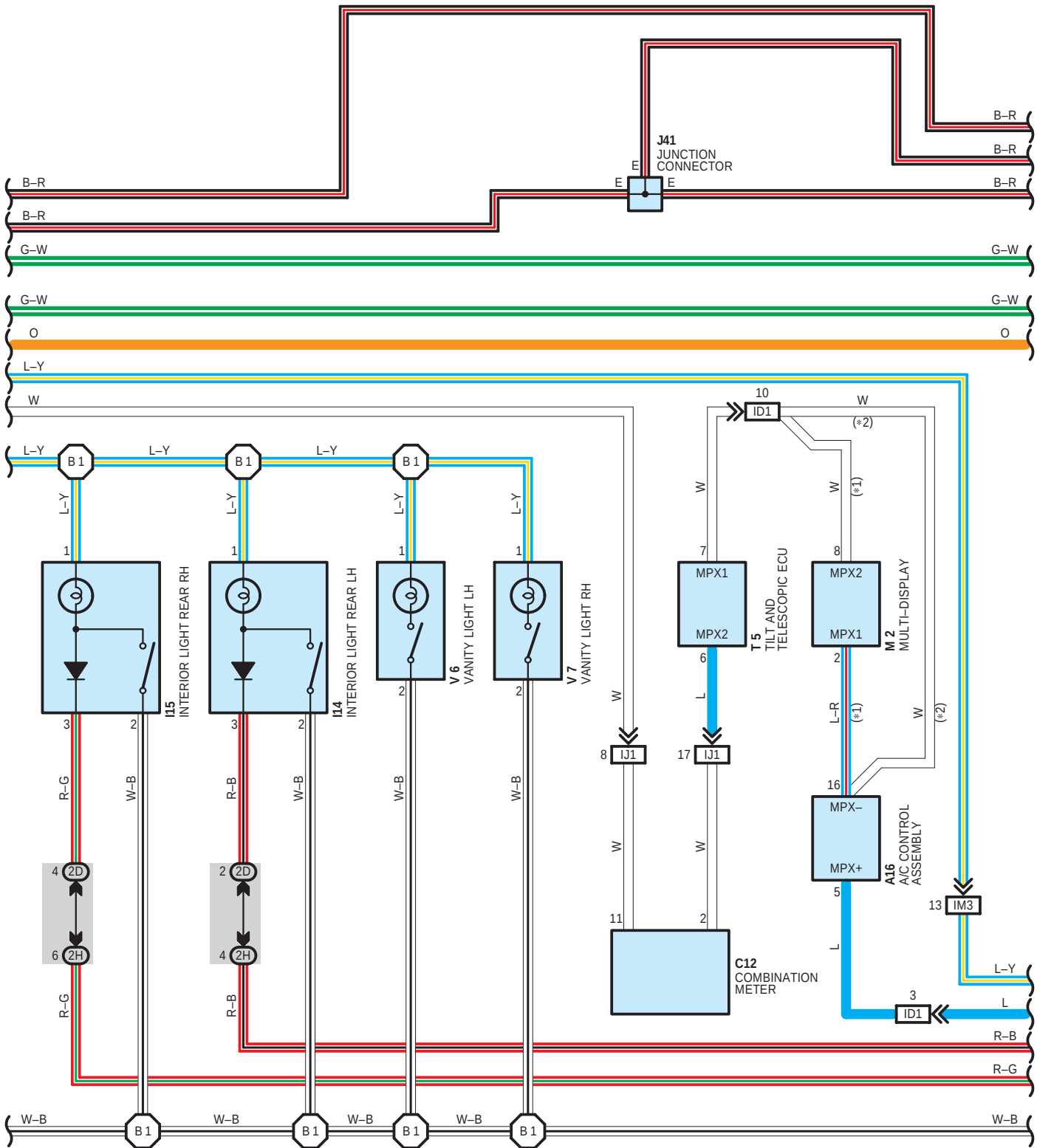




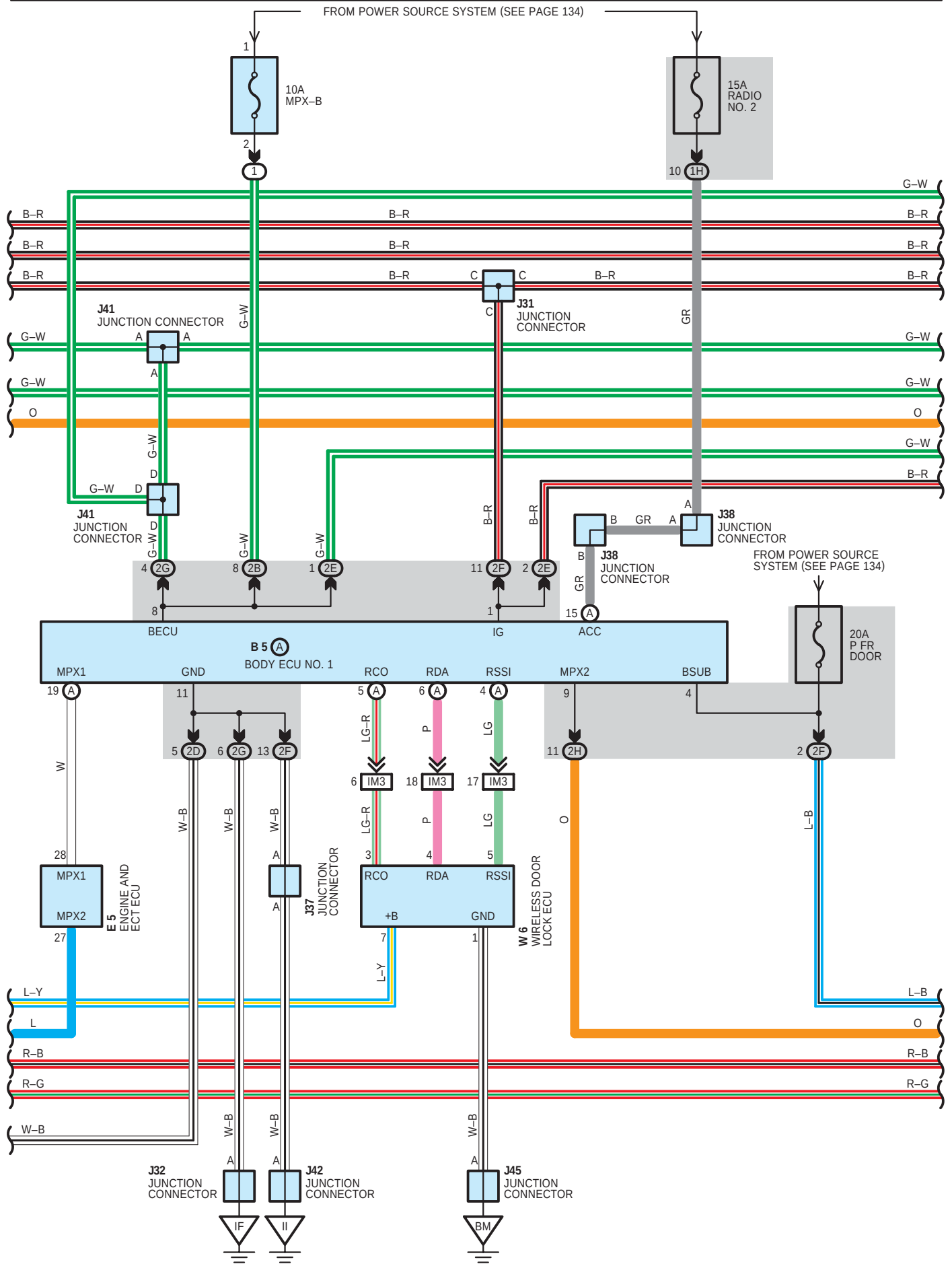
**P19**  
 POWER SEAT ECU

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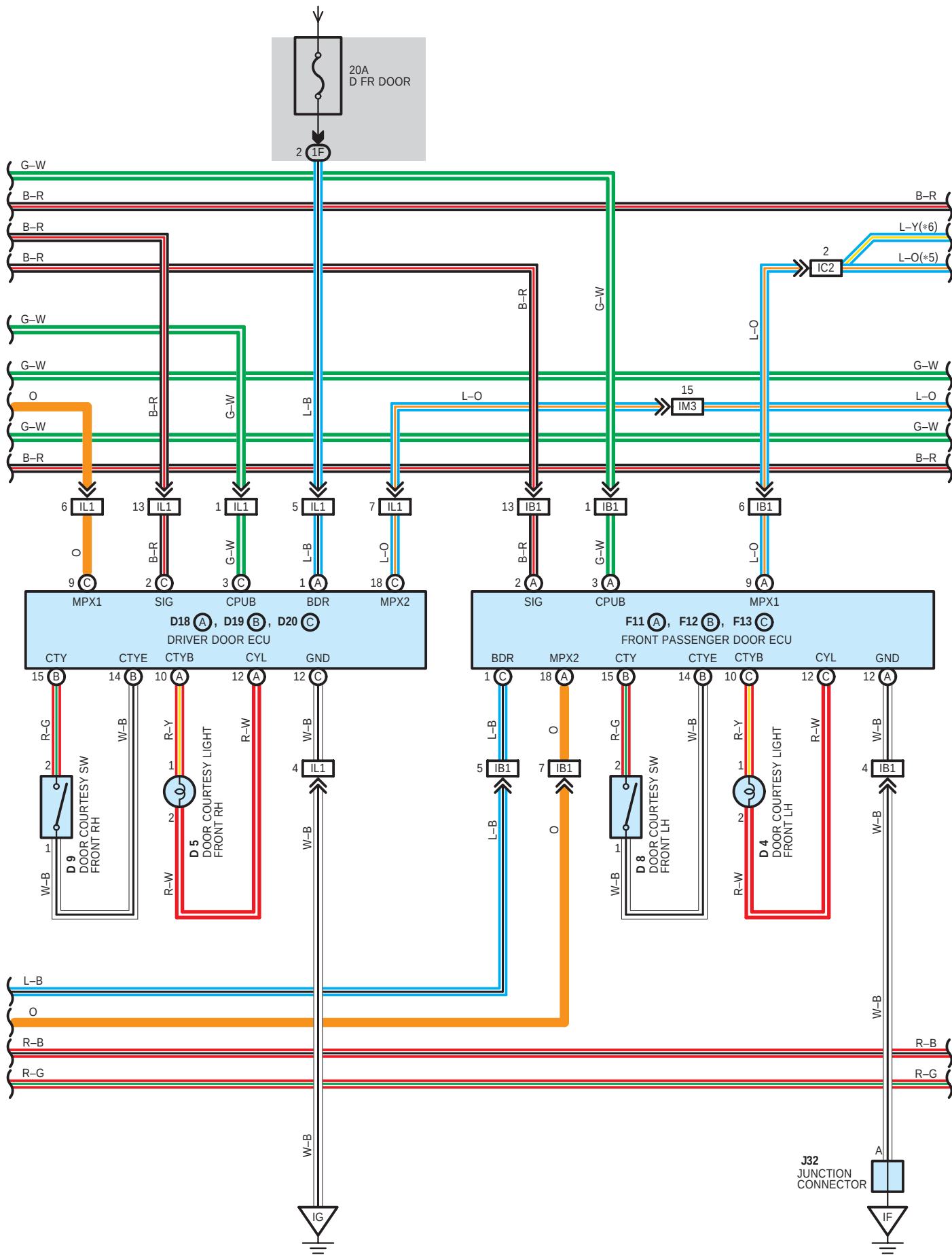




# INTERIOR LIGHT (RHD)

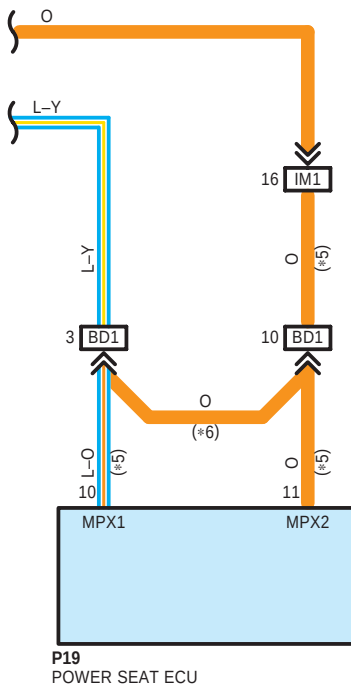


FROM POWER SOURCE SYSTEM (SEE PAGE 134)



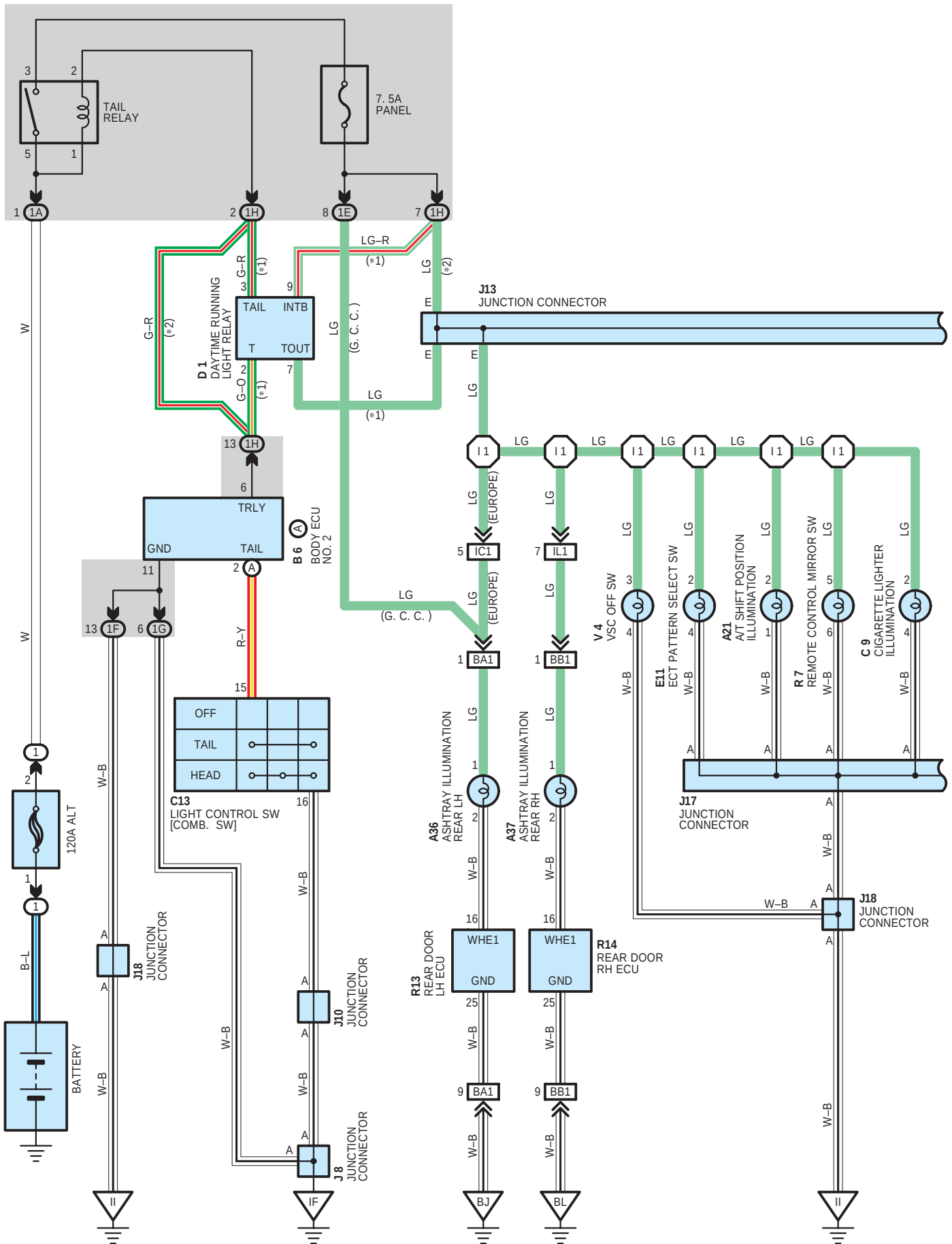
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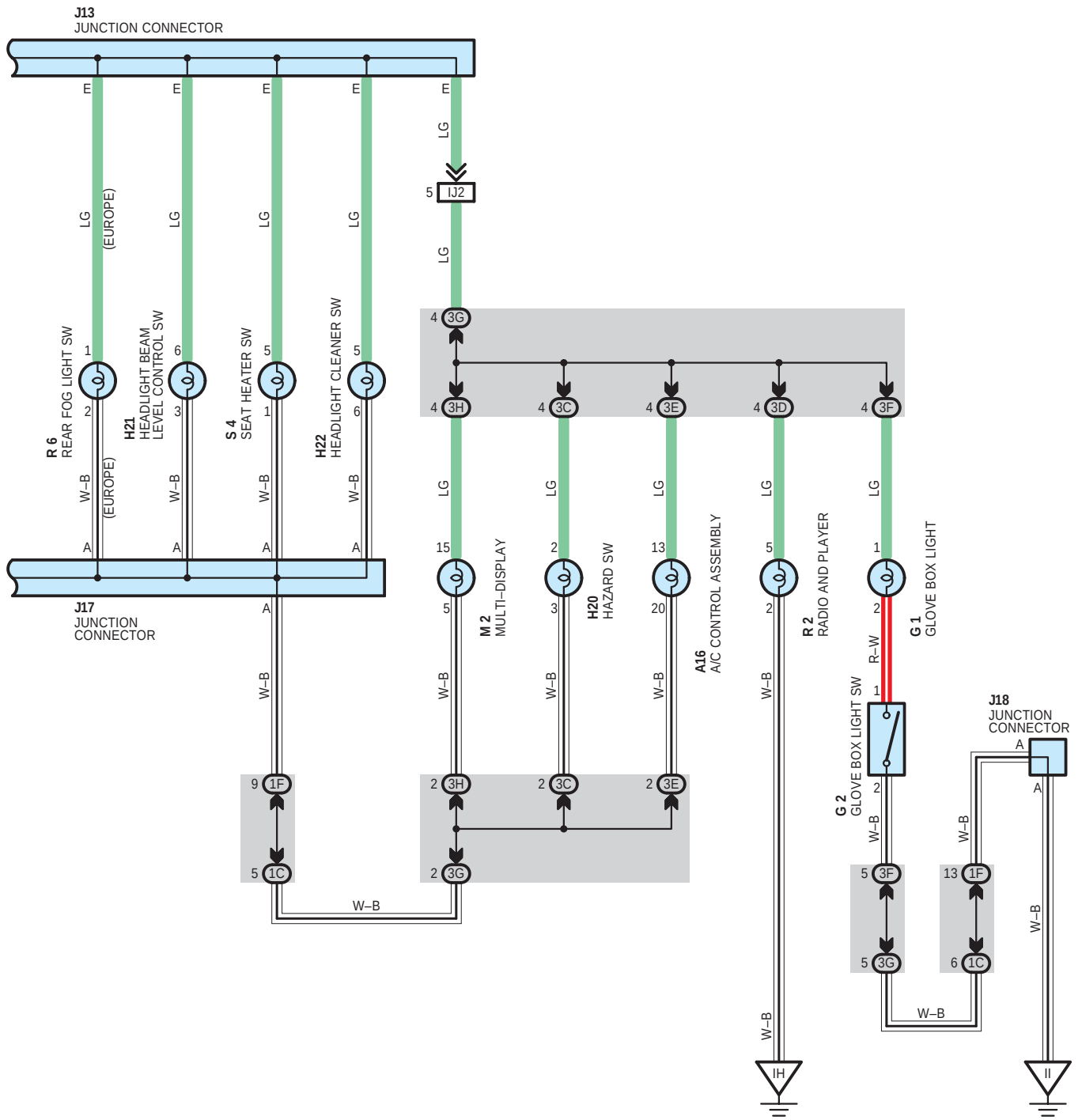




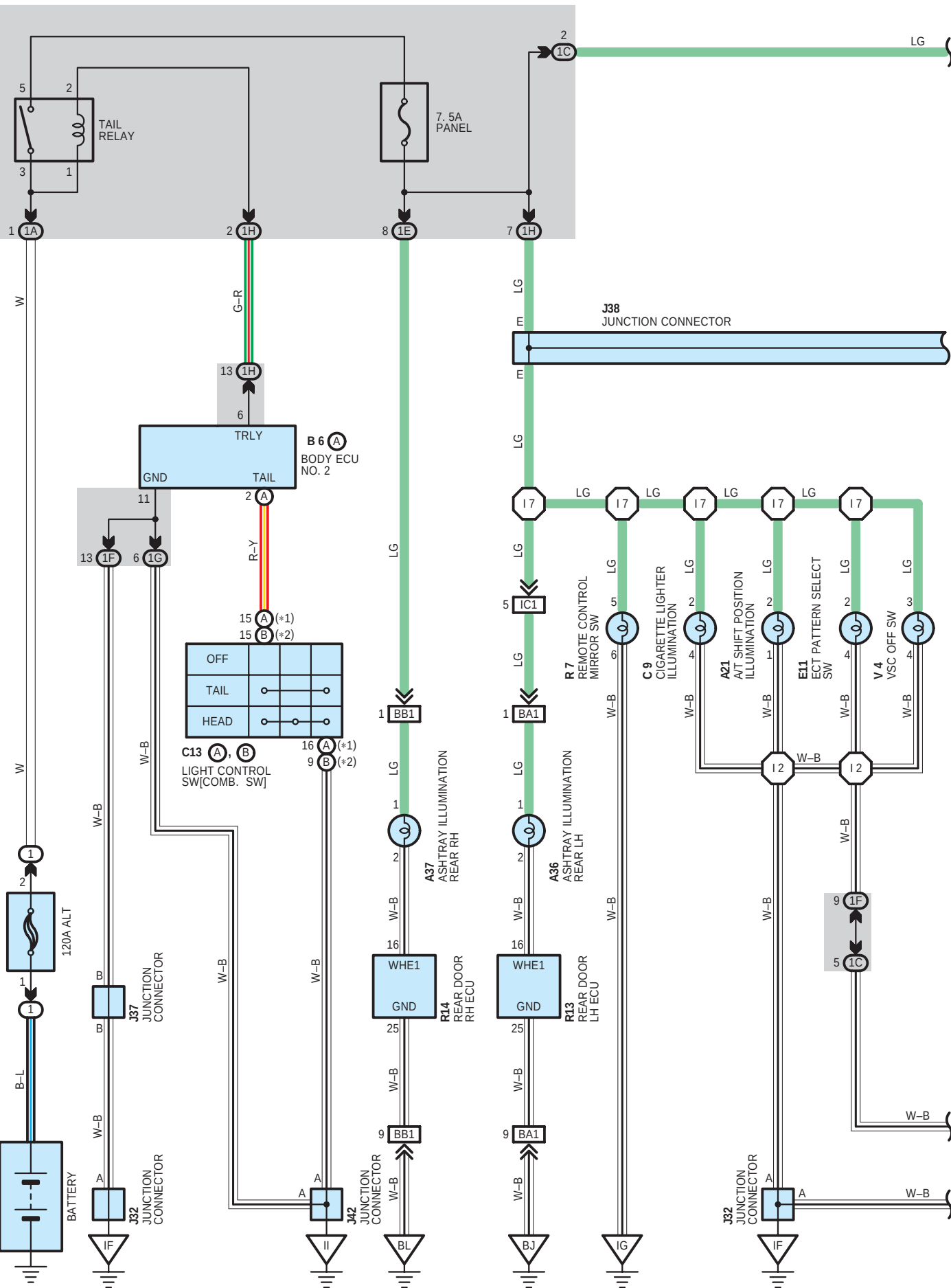


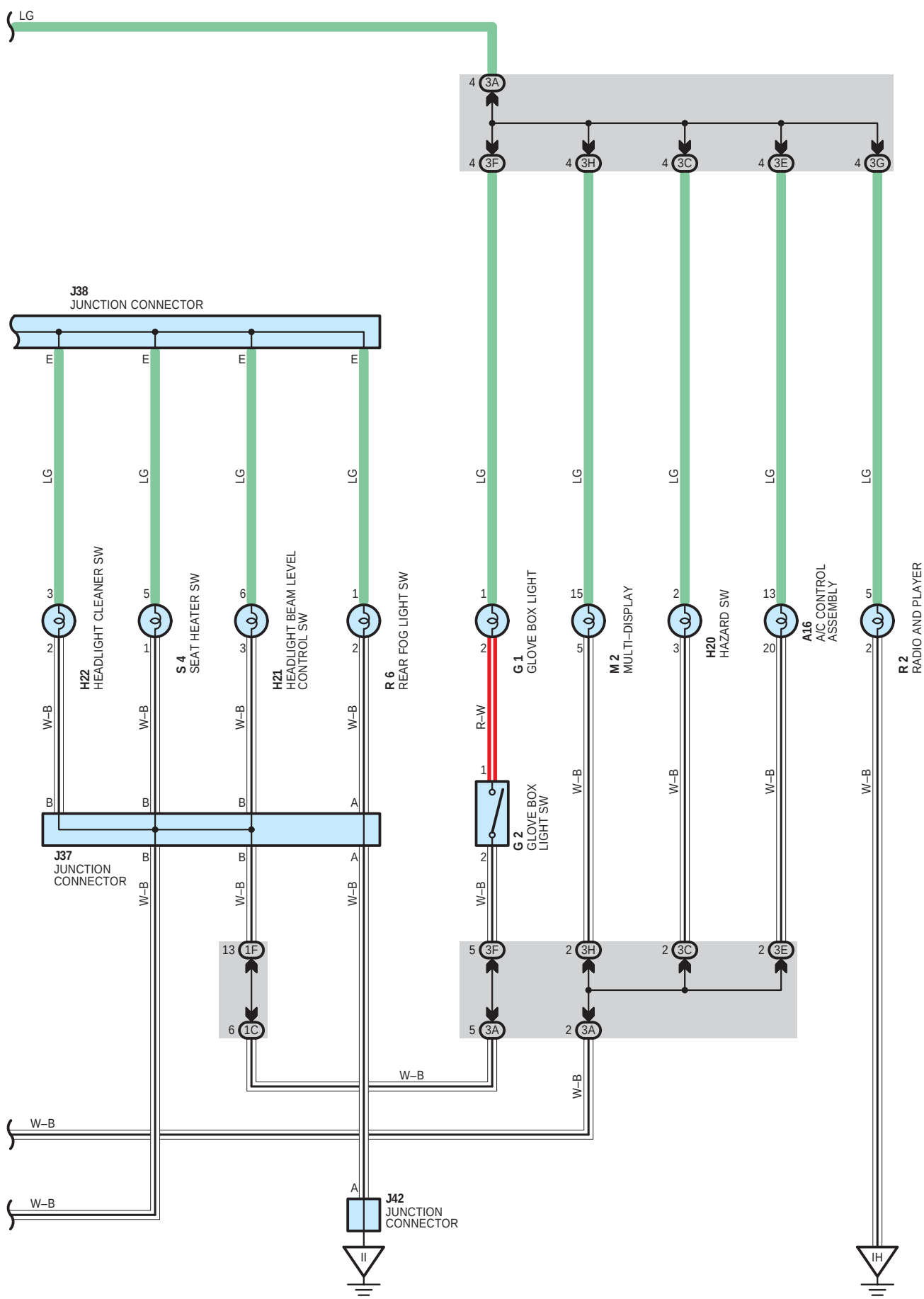
# ILLUMINATION (LHD)



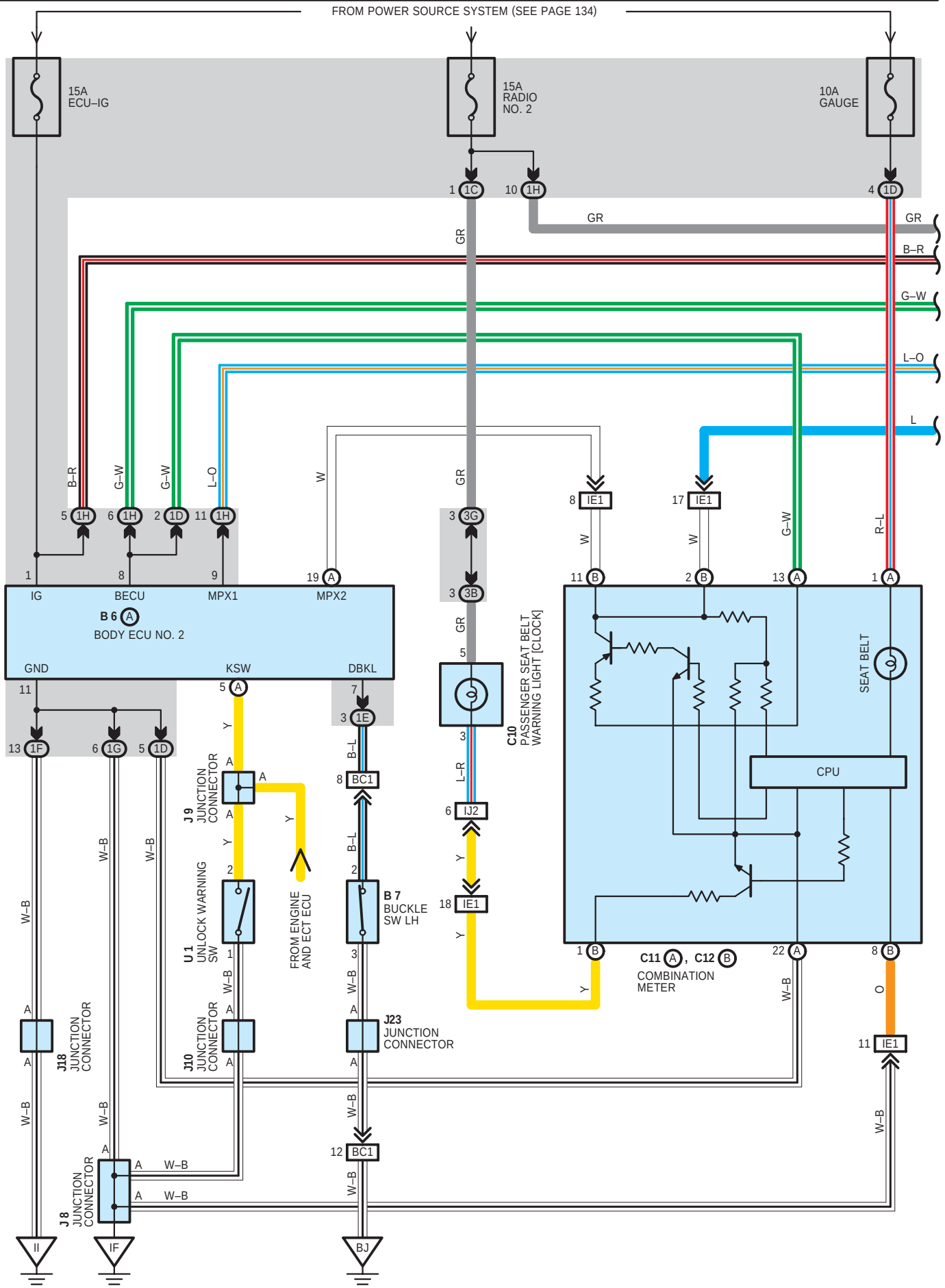


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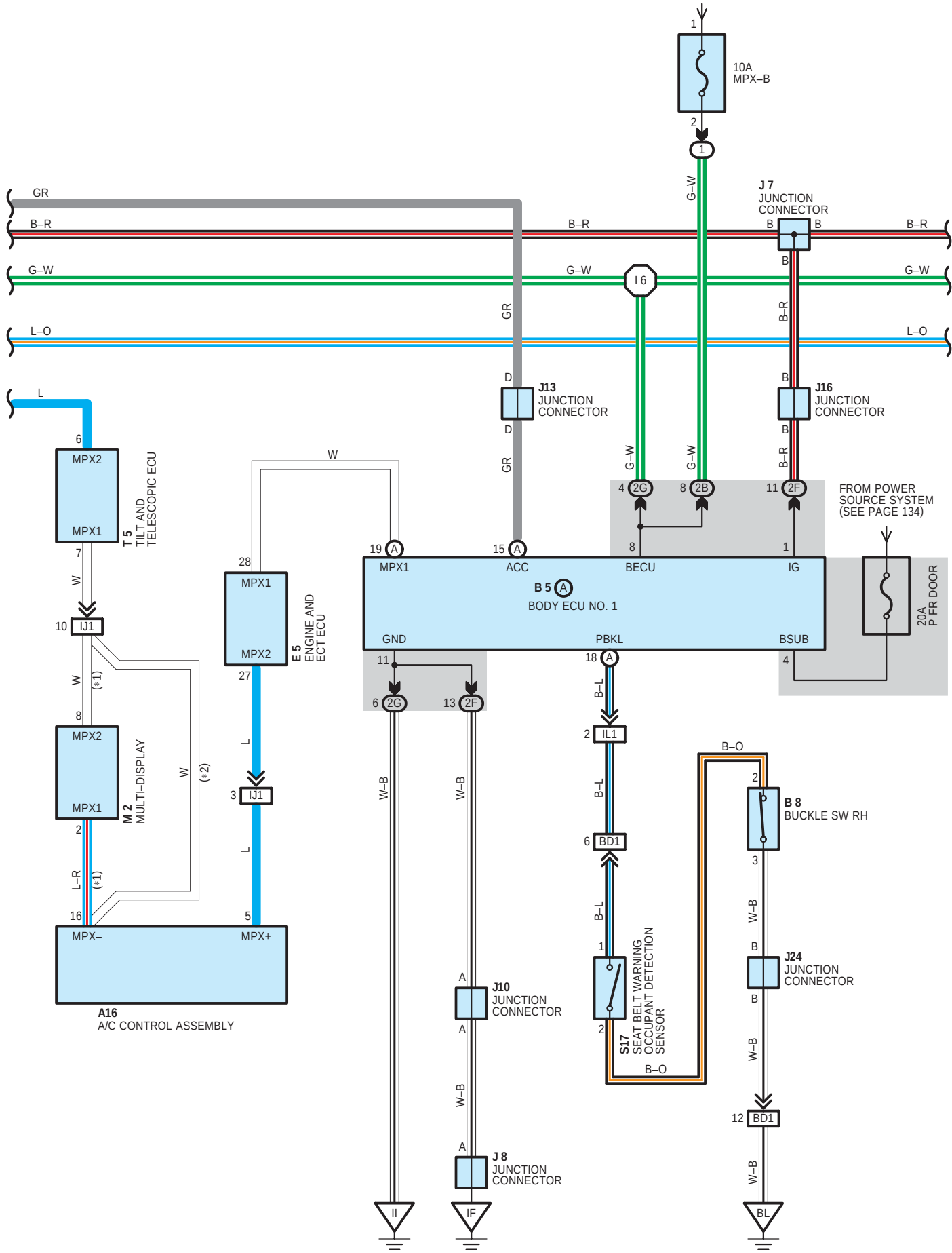




# KEY REMINDER AND SEAT BELT WARNING (LHD)

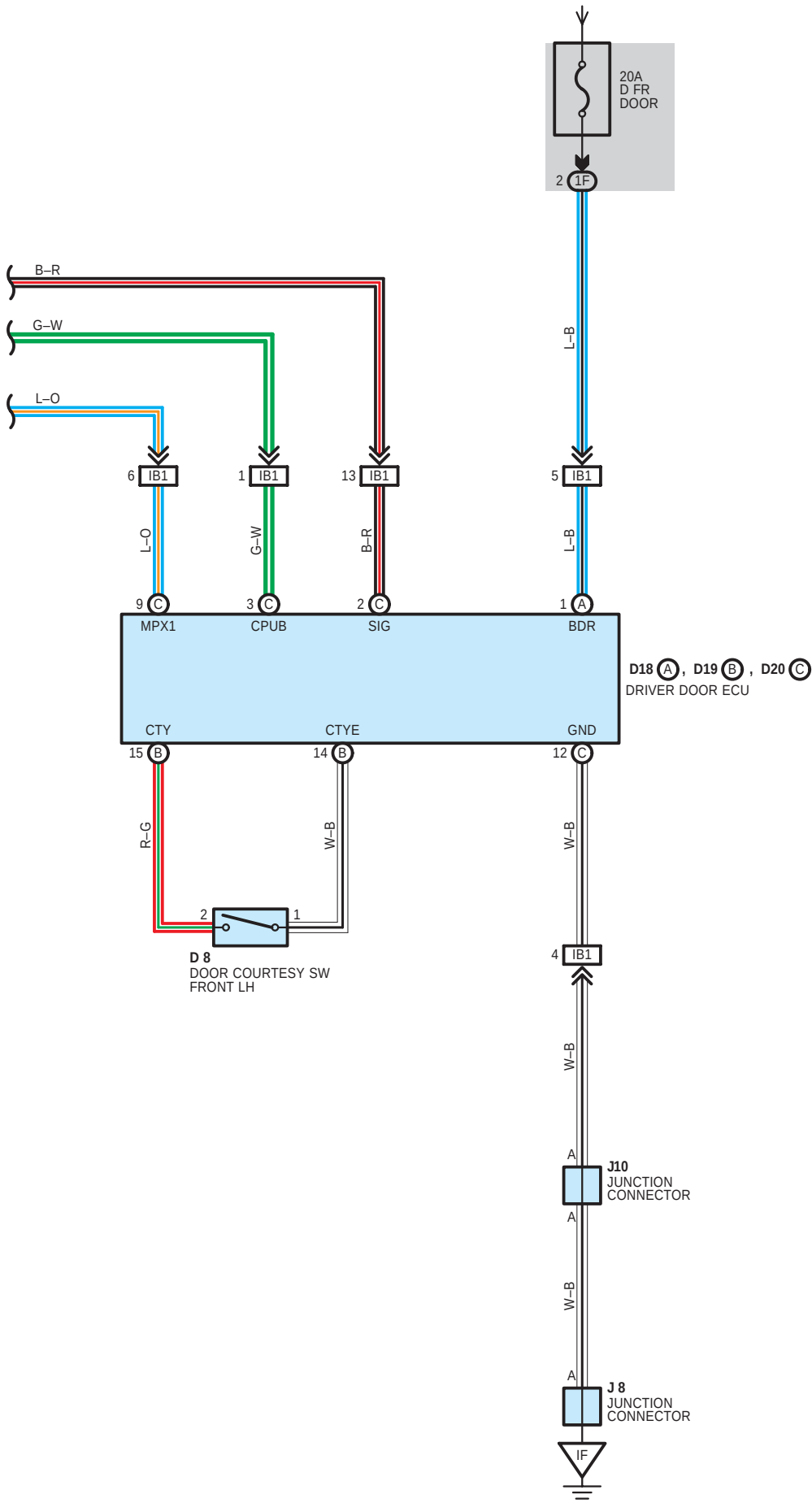


FROM POWER SOURCE SYSTEM (SEE PAGE 134)

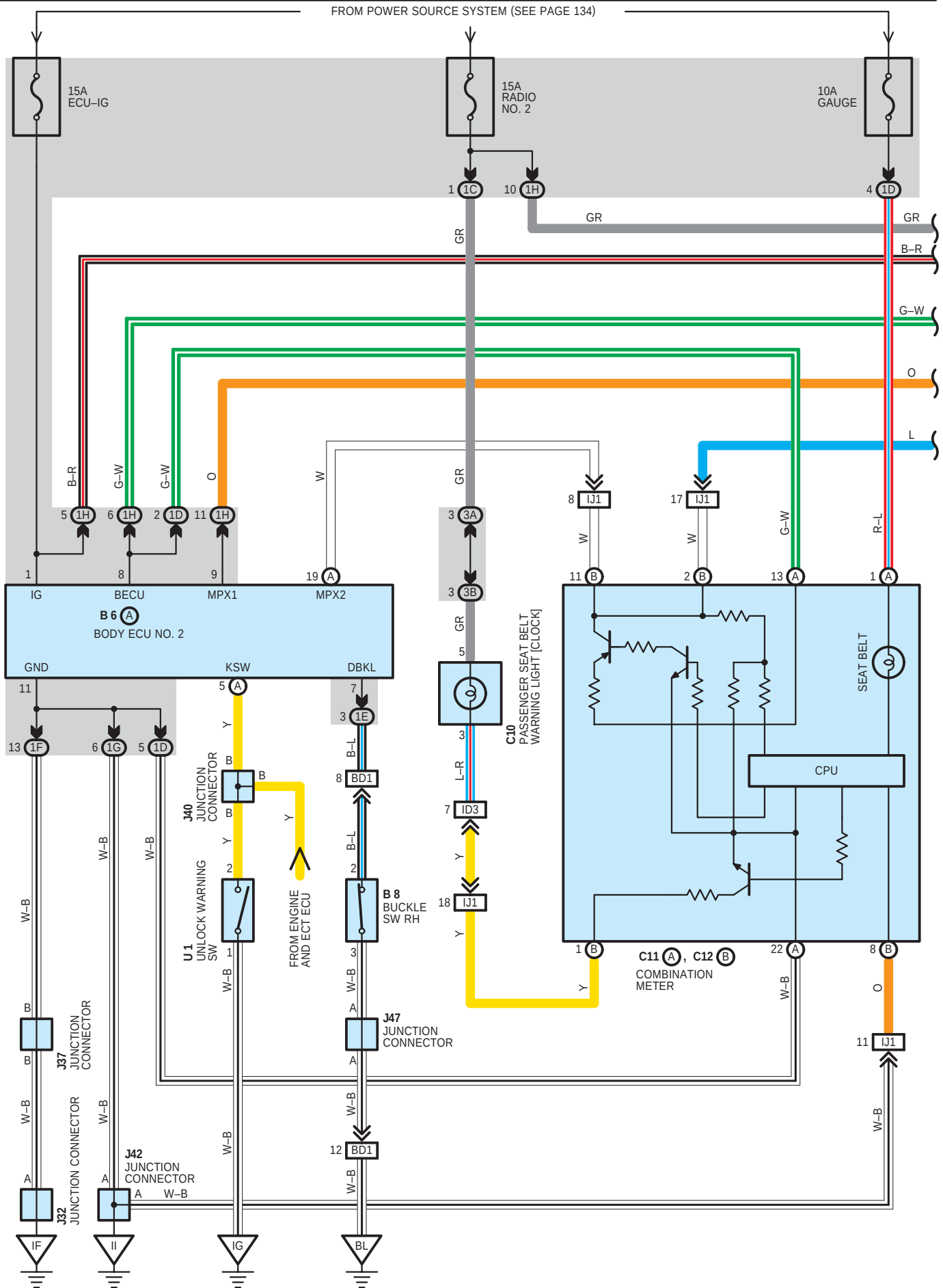


# KEY REMINDER AND SEAT BELT WARNING (LHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)

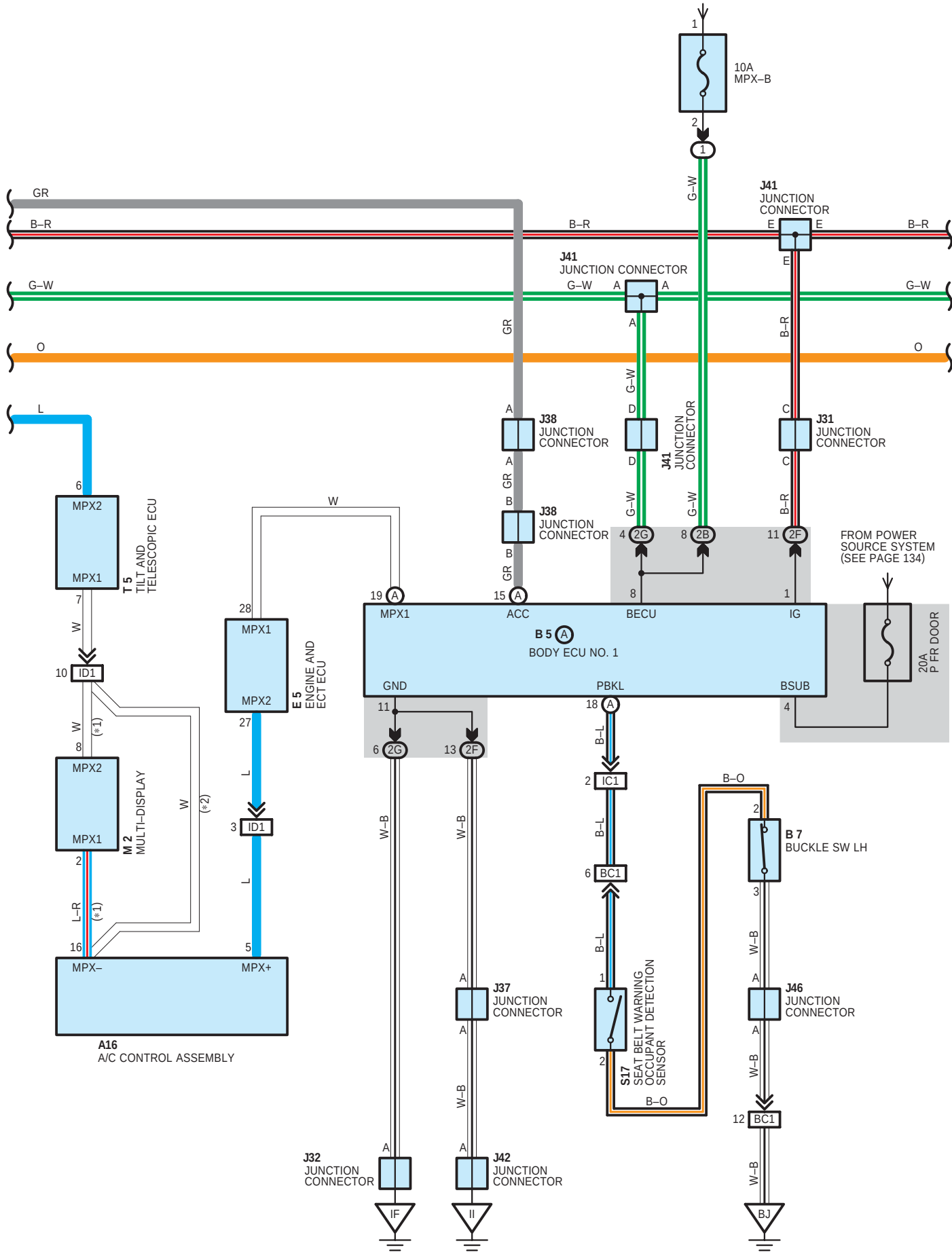


# KEY REMINDER AND SEAT BELT WARNING (RHD)



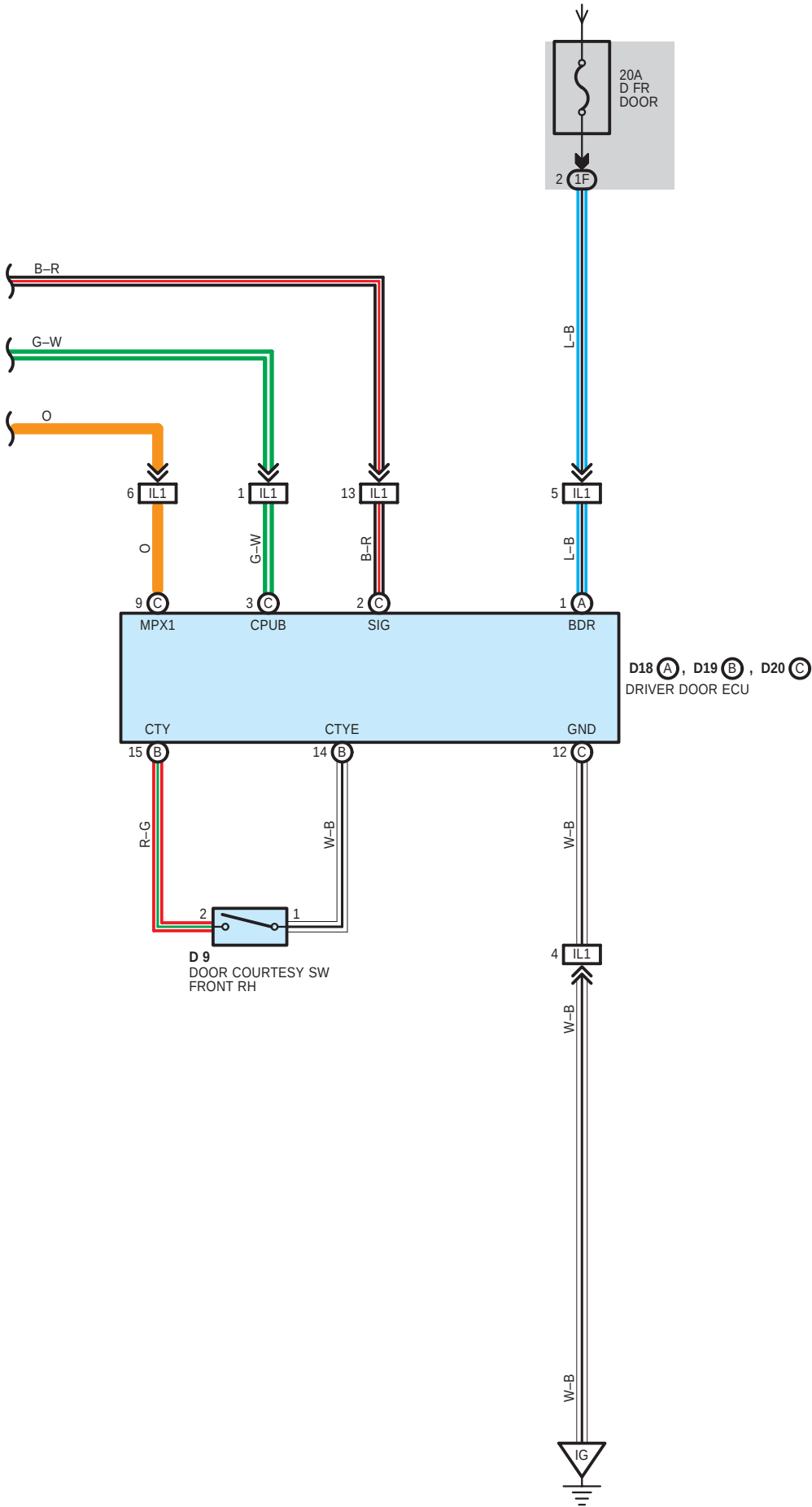


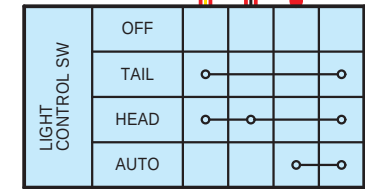
FROM POWER SOURCE SYSTEM (SEE PAGE 134)

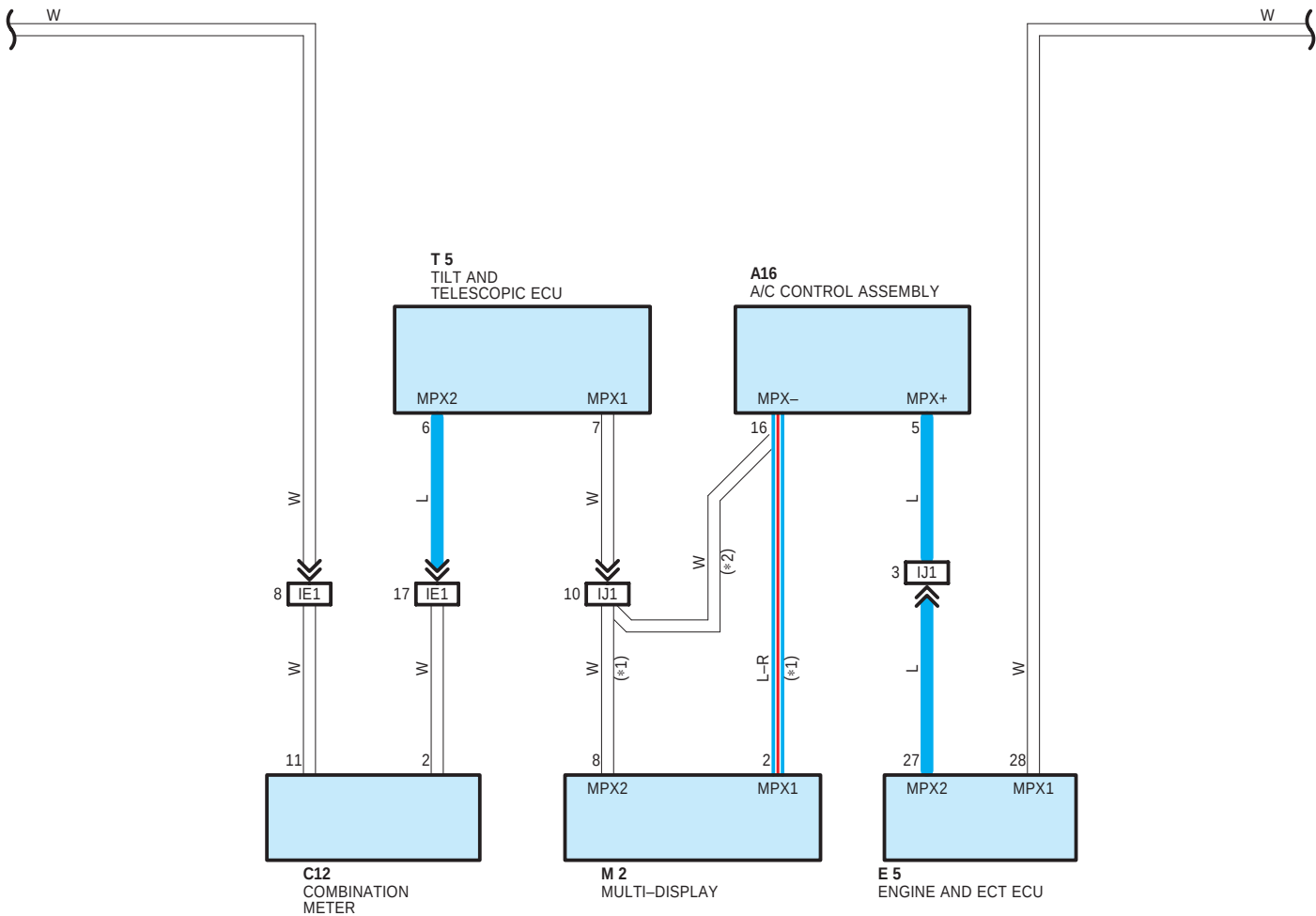


# KEY REMINDER AND SEAT BELT WARNING (RHD)

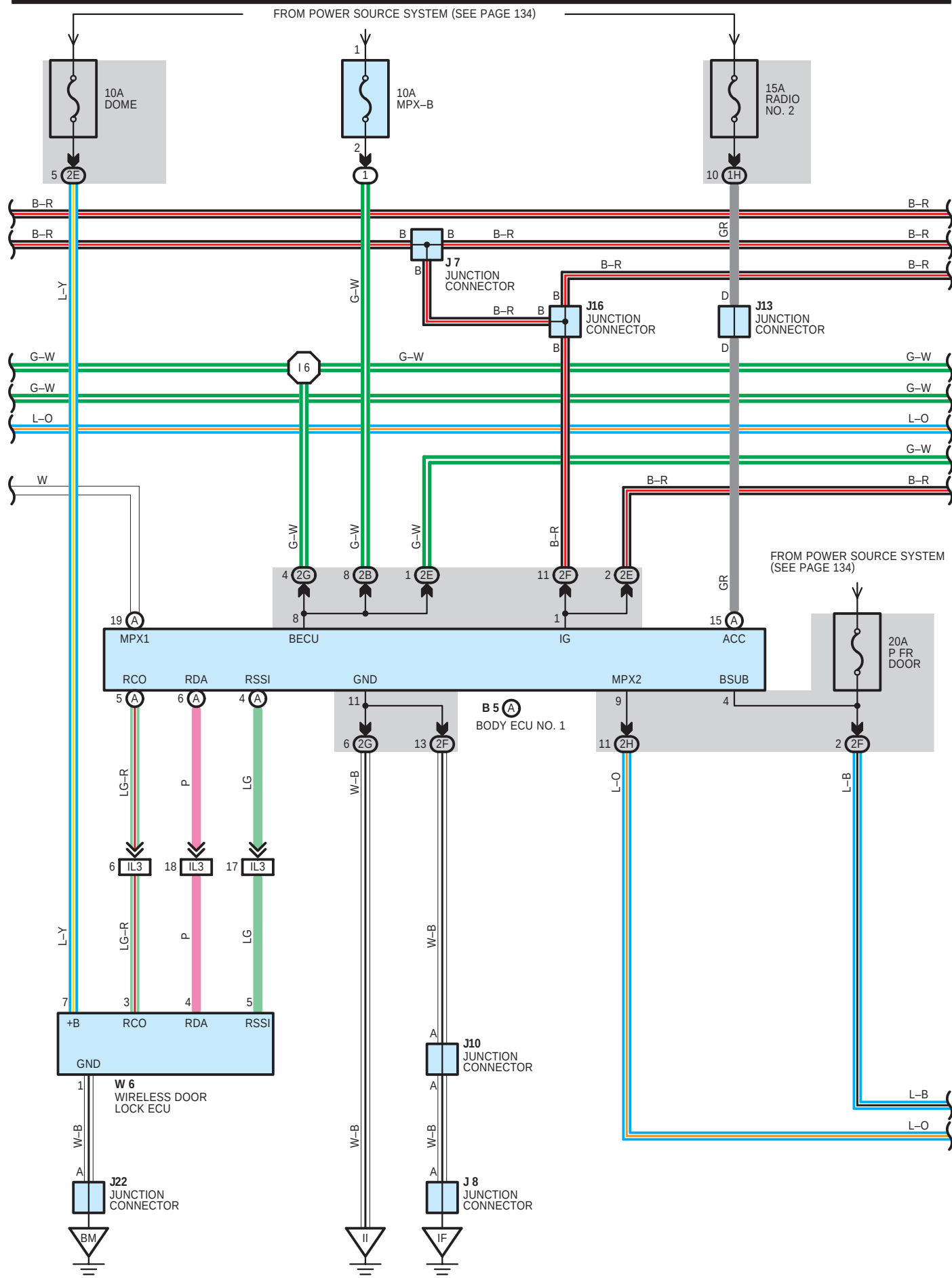
FROM POWER SOURCE SYSTEM (SEE PAGE 134)

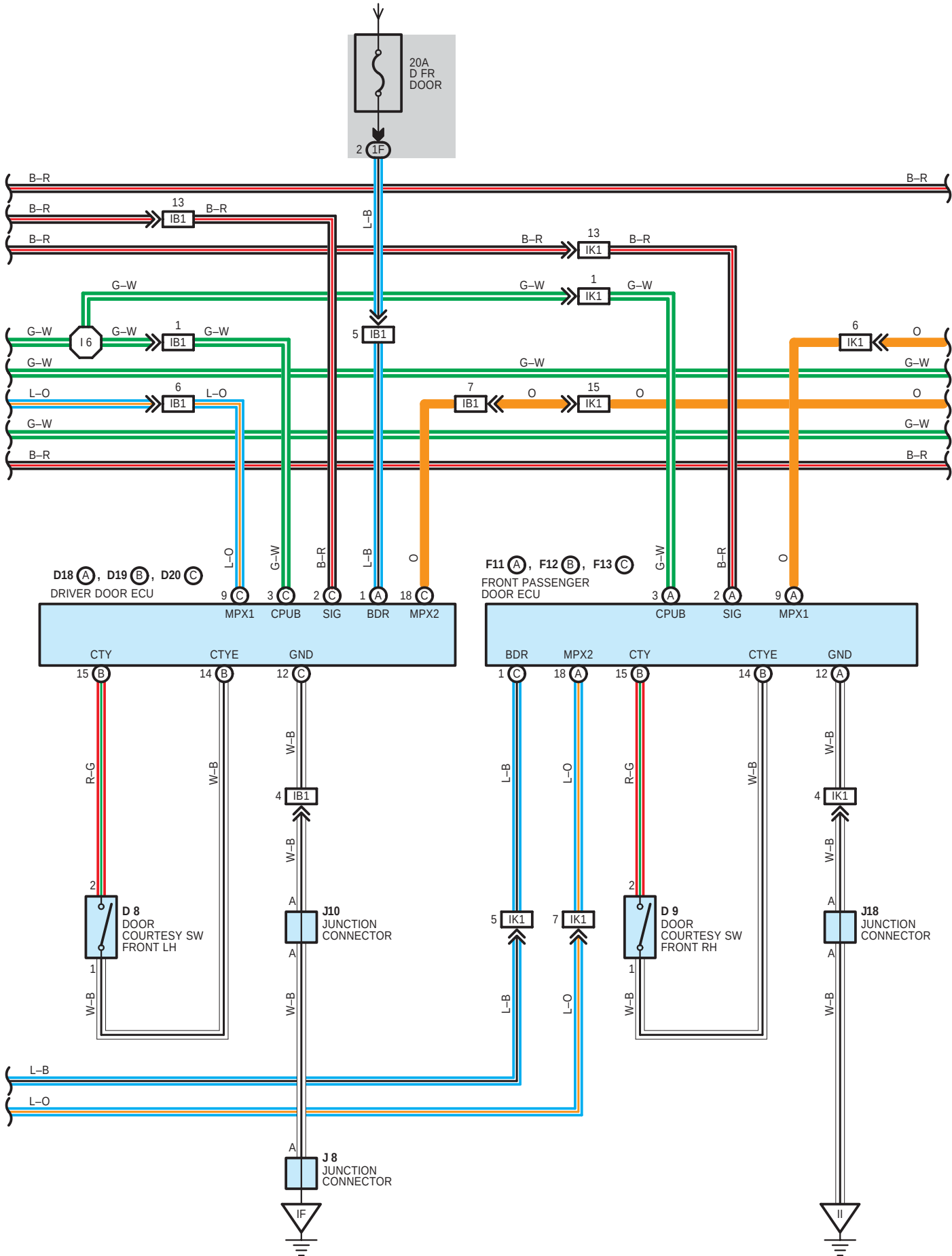






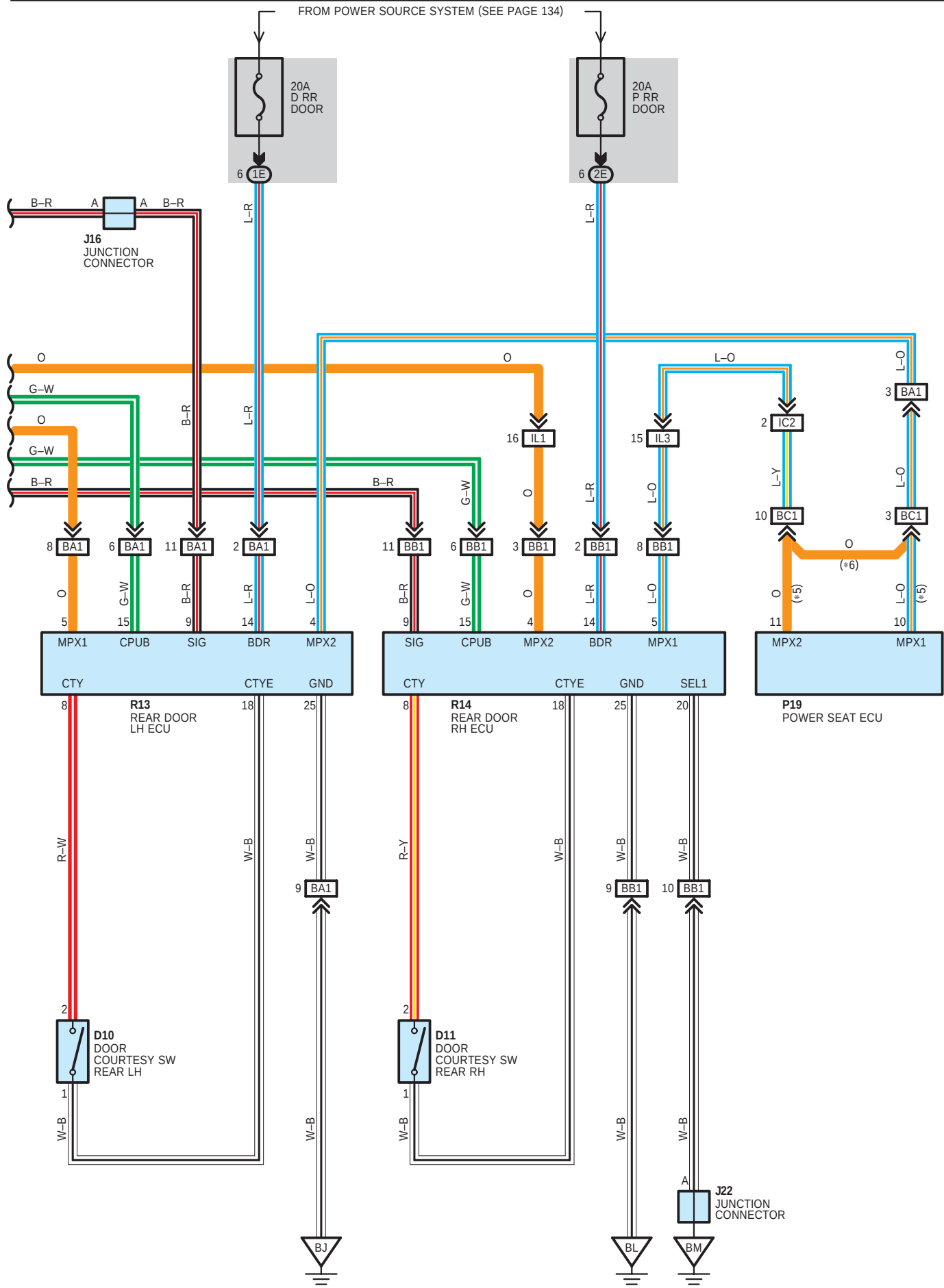
# LIGHT AUTO TURN OFF (LHD)





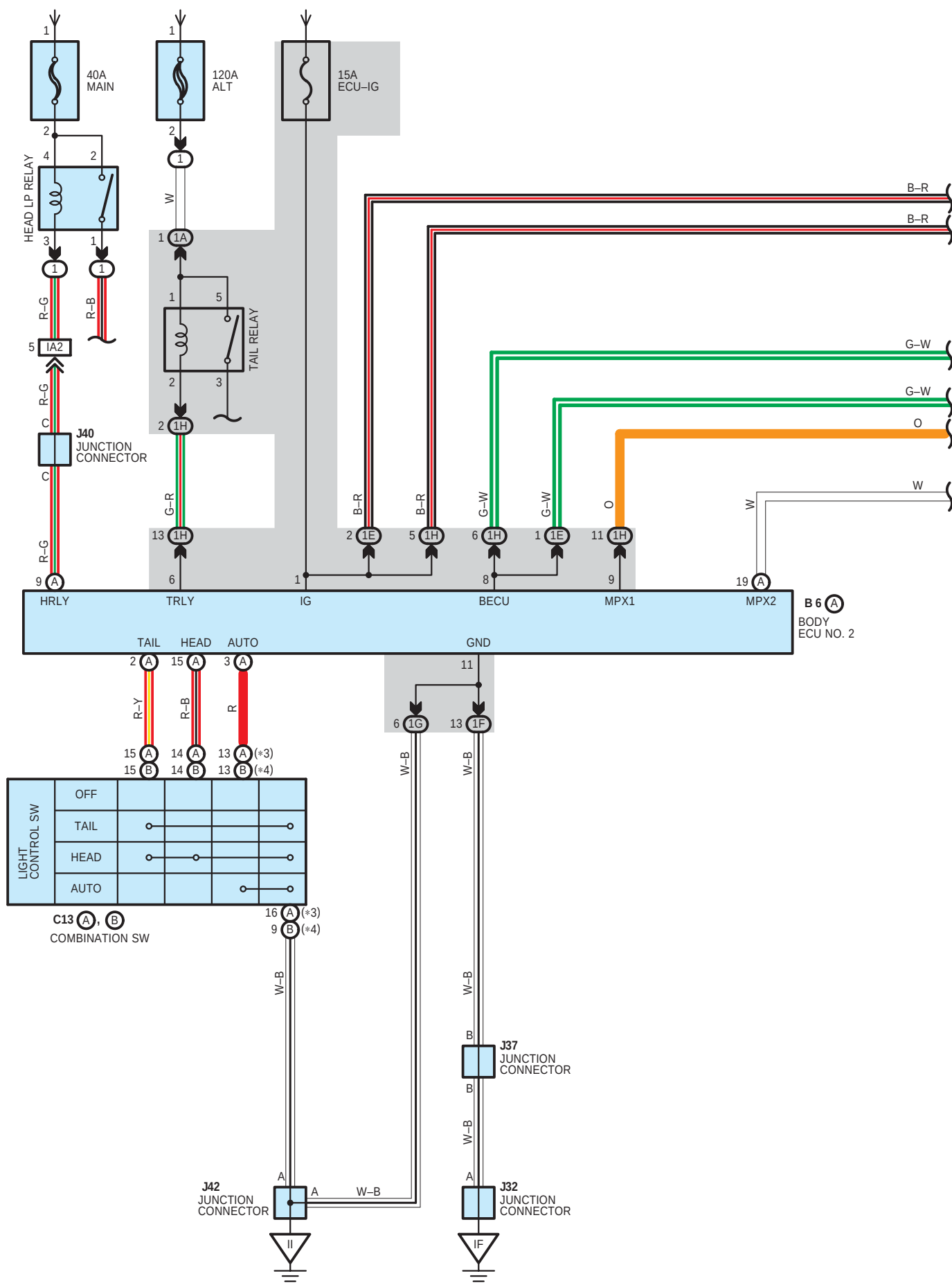
# LIGHT AUTO TURN OFF (LHD)

\* 5 : W/ DRIVING POSITION MEMORY  
\* 6 : W/O DRIVING POSITION MEMORY

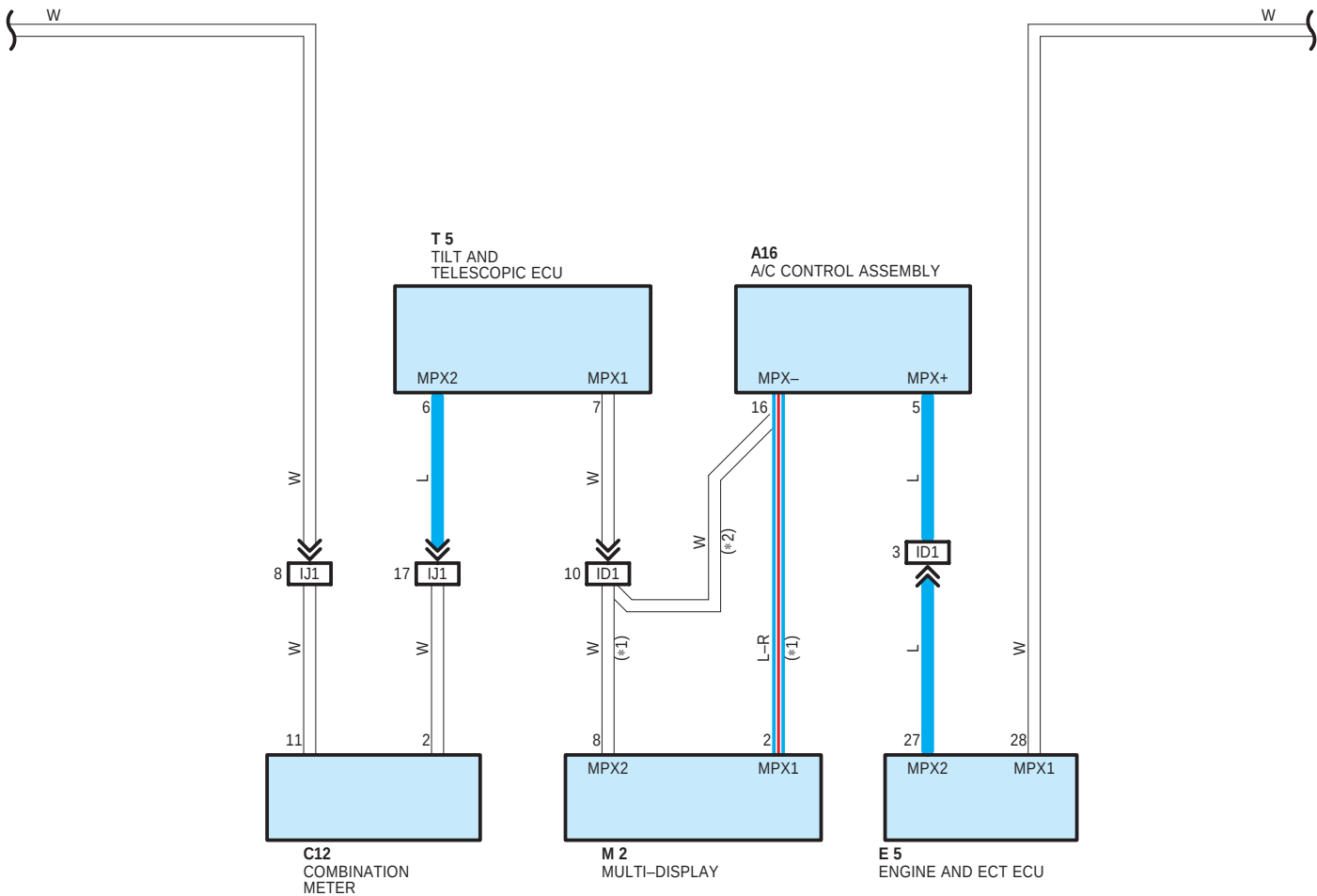


# LIGHT AUTO TURN OFF (RHD)

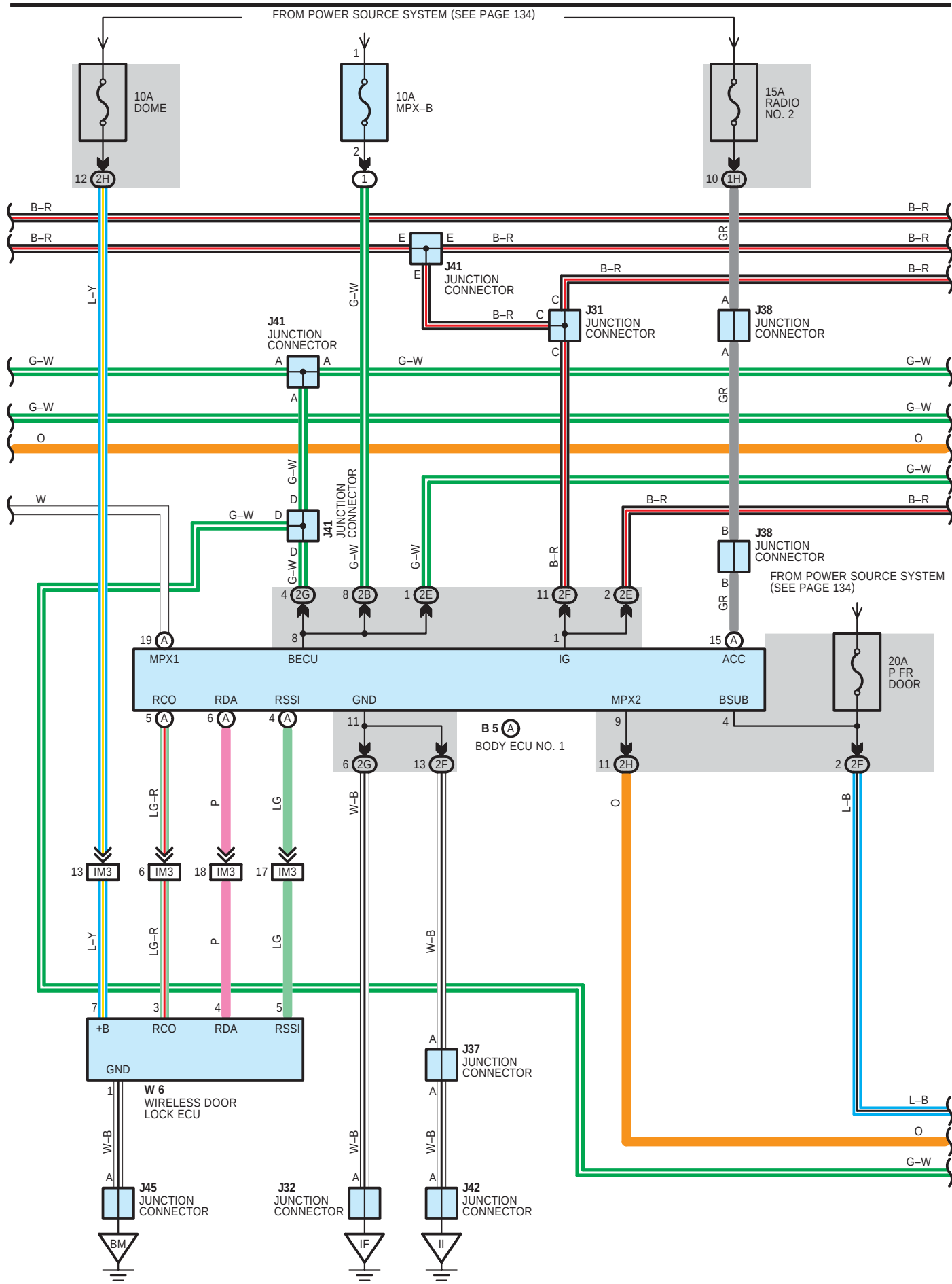
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



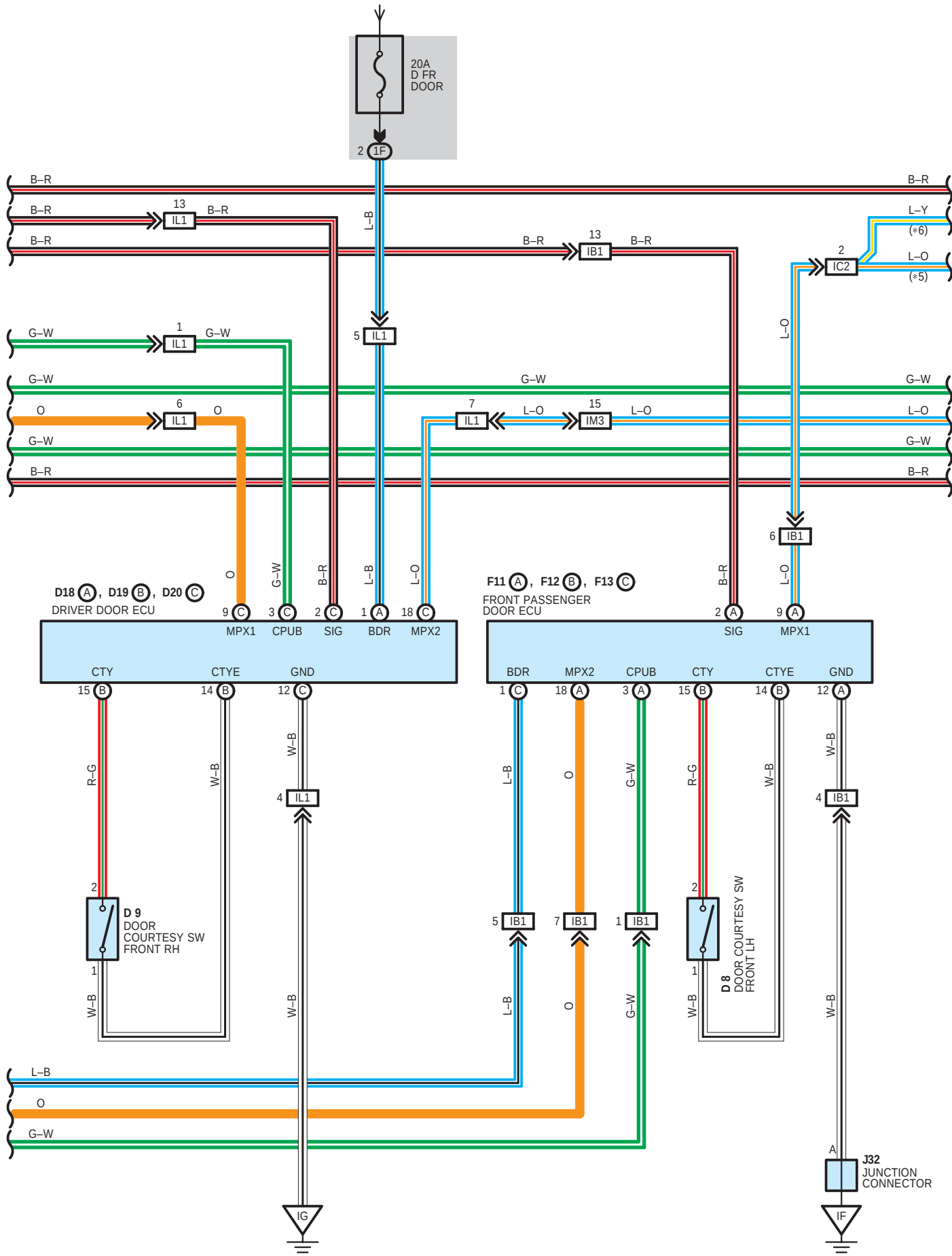




# LIGHT AUTO TURN OFF (RHD)

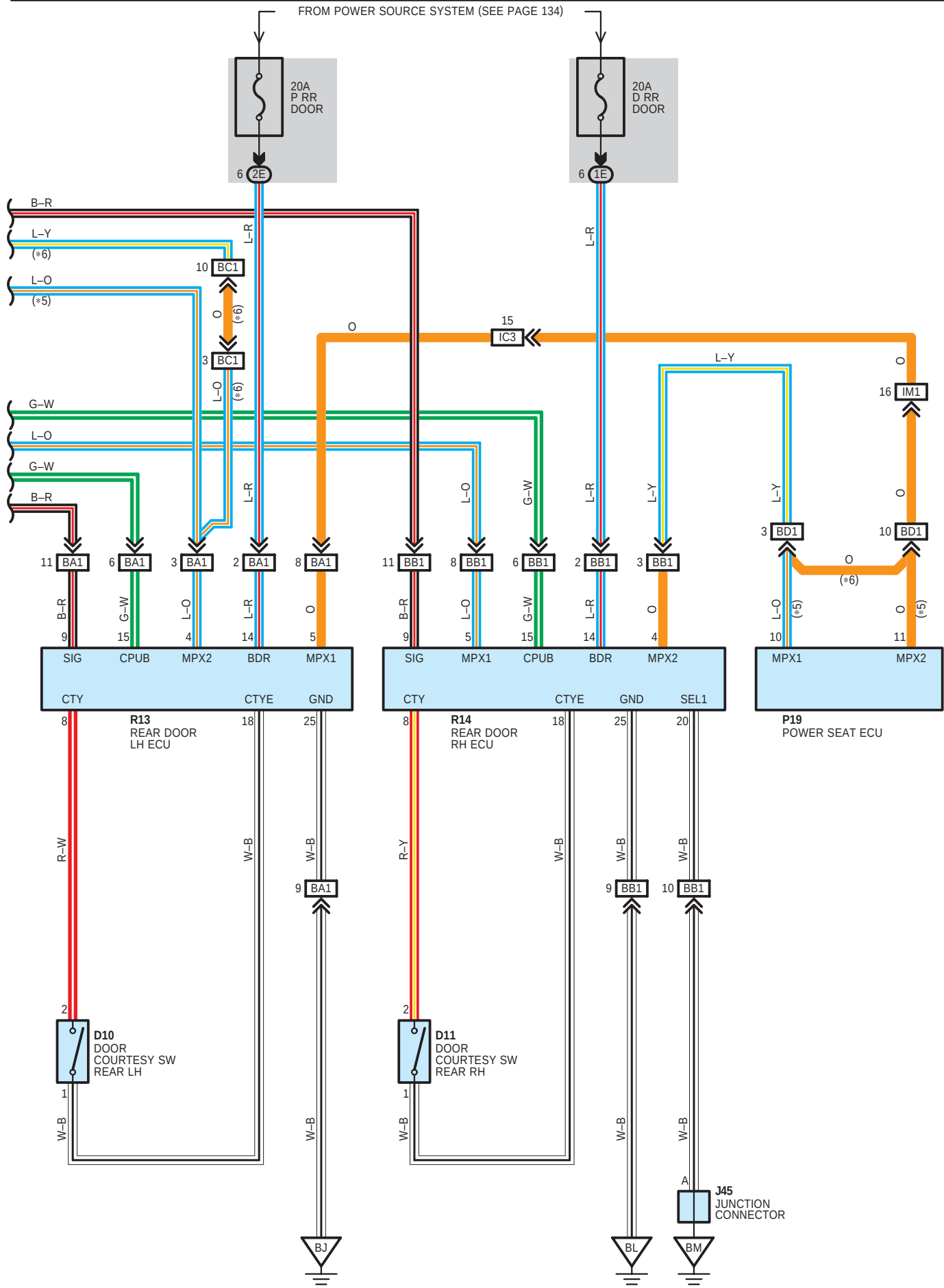


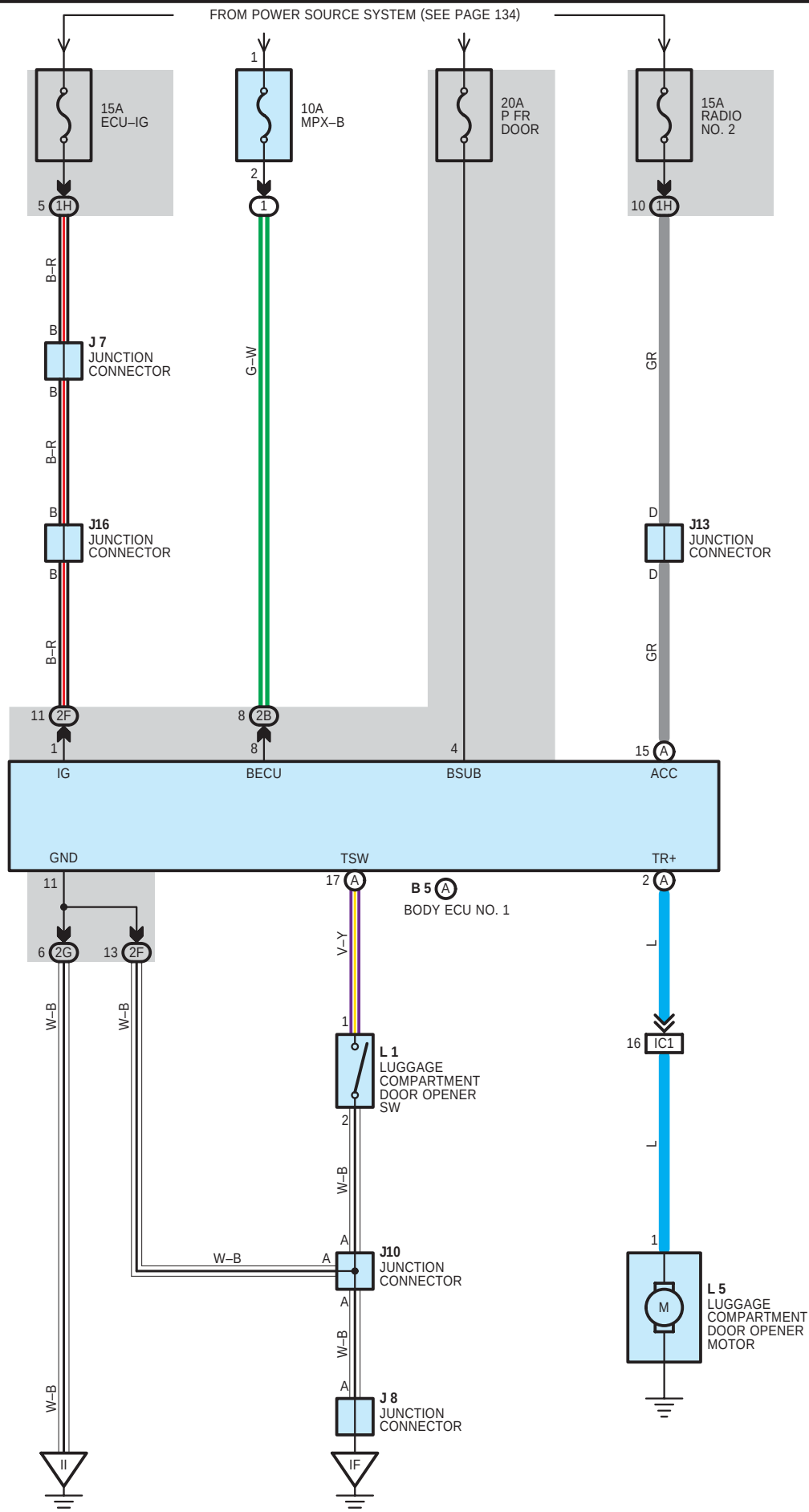
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



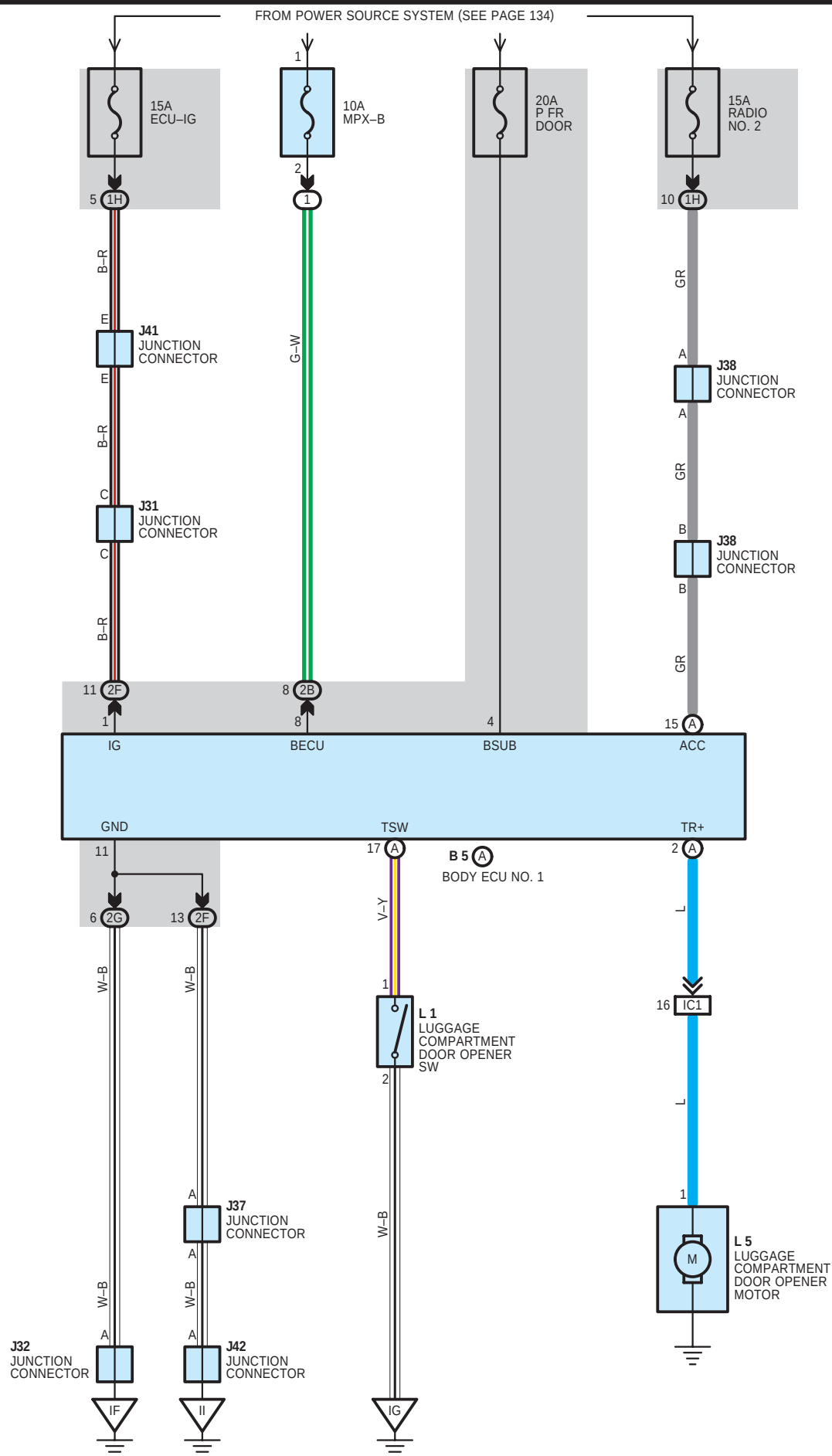
# LIGHT AUTO TURN OFF (RHD)

\* 5 : W/ DRIVING POSITION MEMORY  
\* 6 : W/O DRIVING POSITION MEMORY





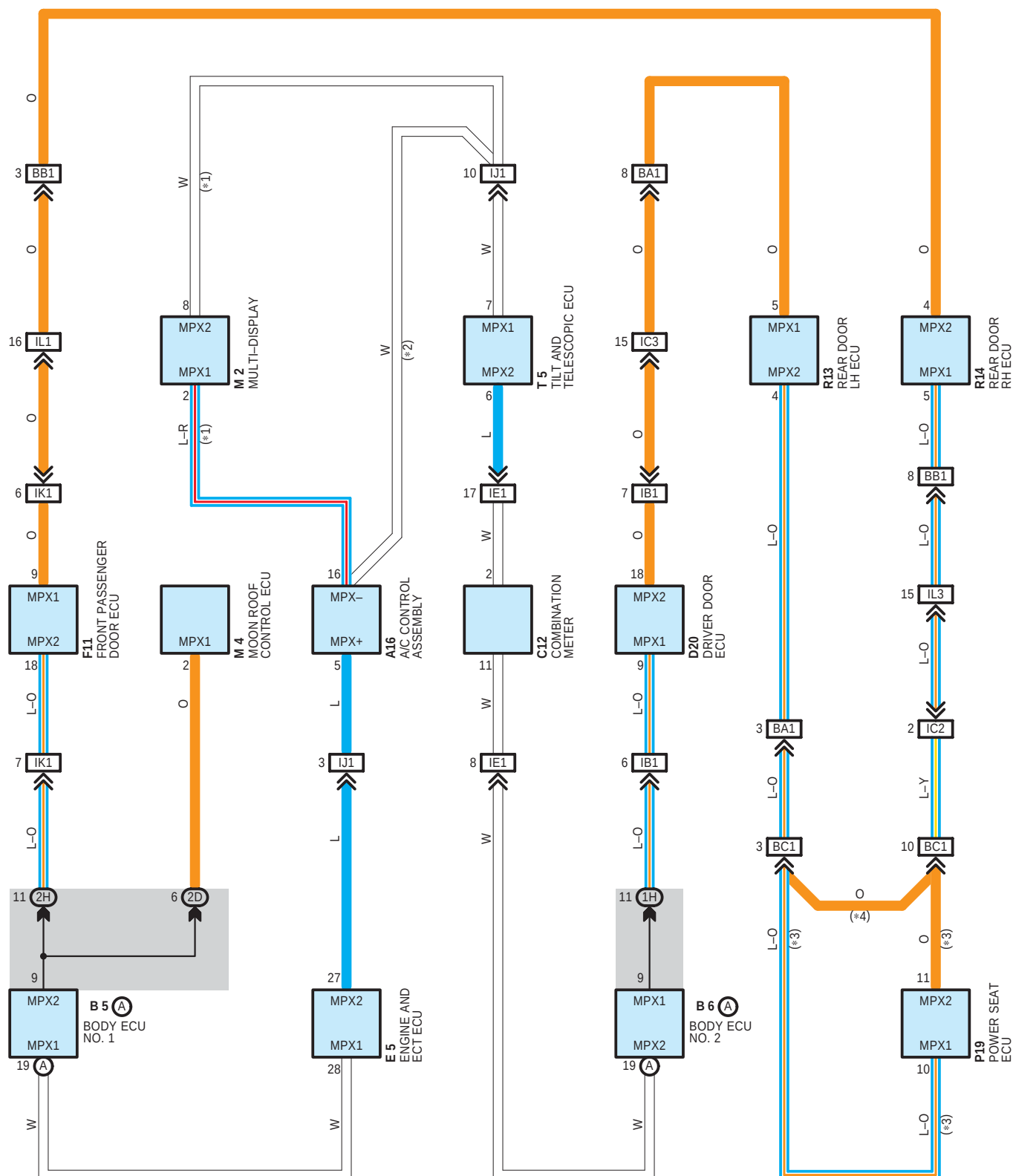
# LUGGAGE COMPARTMENT DOOR OPENER (RHD)



# MULTIPLEX COMMUNICATION SYSTEM (COMMUNICATION BUS) (LHD)

\* 1 : W/ LEXUS NAVIGATION SYSTEM  
\* 2 : W/O LEXUS NAVIGATION SYSTEM

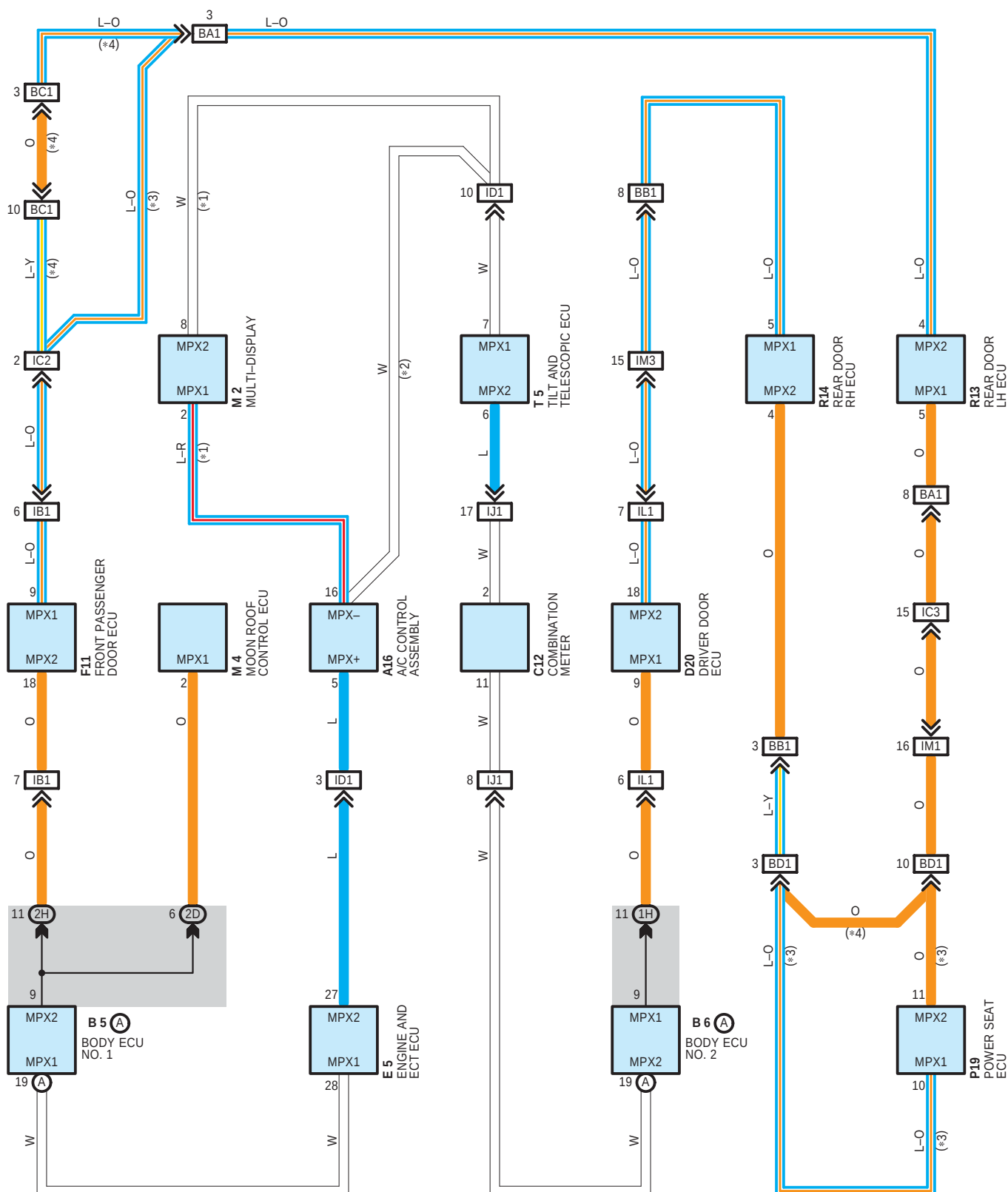
\* 3 : W/ DRIVING POSITION MEMORY  
\* 4 : W/O DRIVING POSITION MEMORY



# MULTIPLEX COMMUNICATION SYSTEM (COMMUNICATION BUS) (RHD)

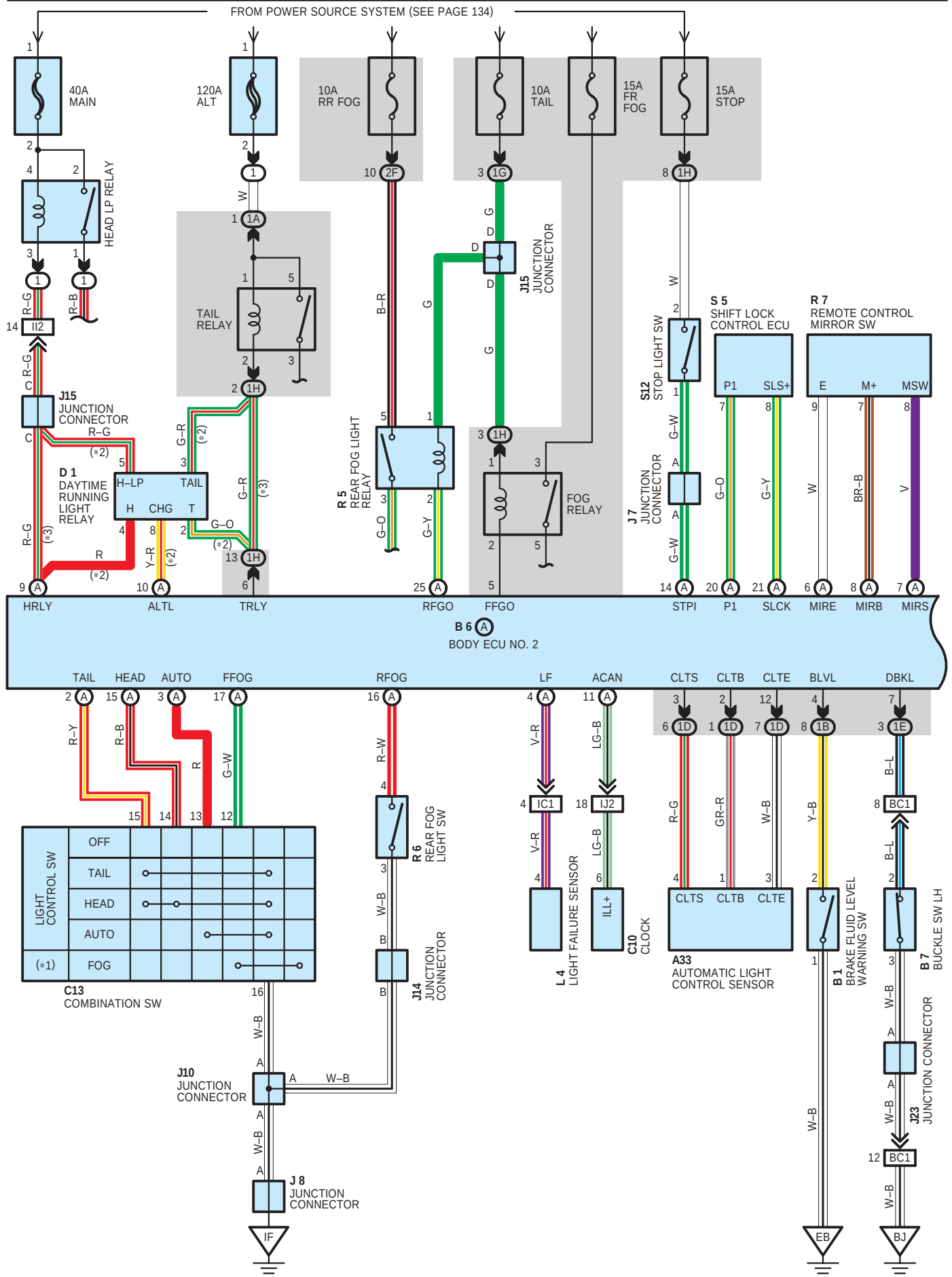
\* 1 : W/ LEXUS NAVIGATION SYSTEM  
\* 2 : W/O LEXUS NAVIGATION SYSTEM

\* 3 : W/ DRIVING POSITION MEMORY  
\* 4 : W/O DRIVING POSITION MEMORY



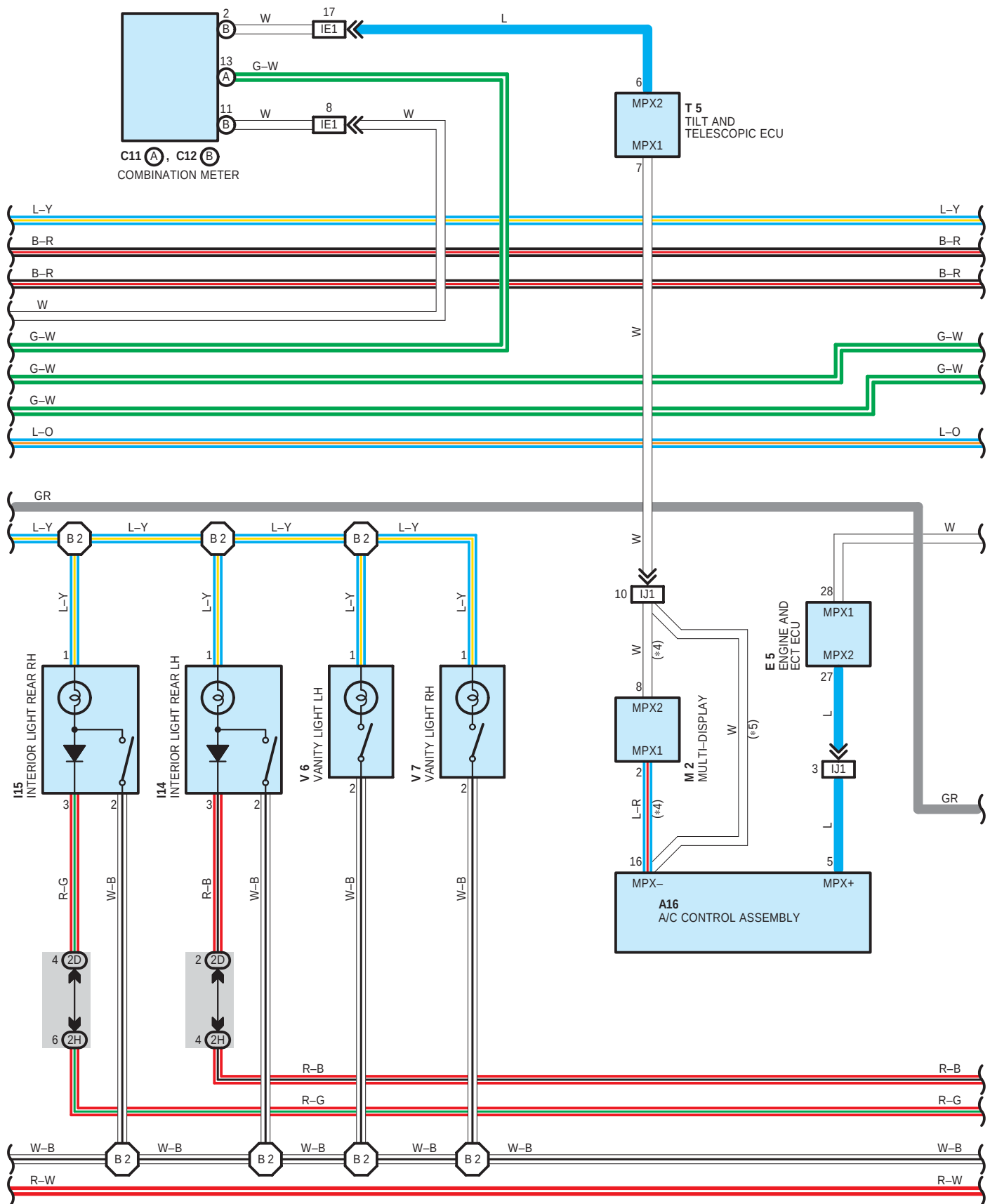


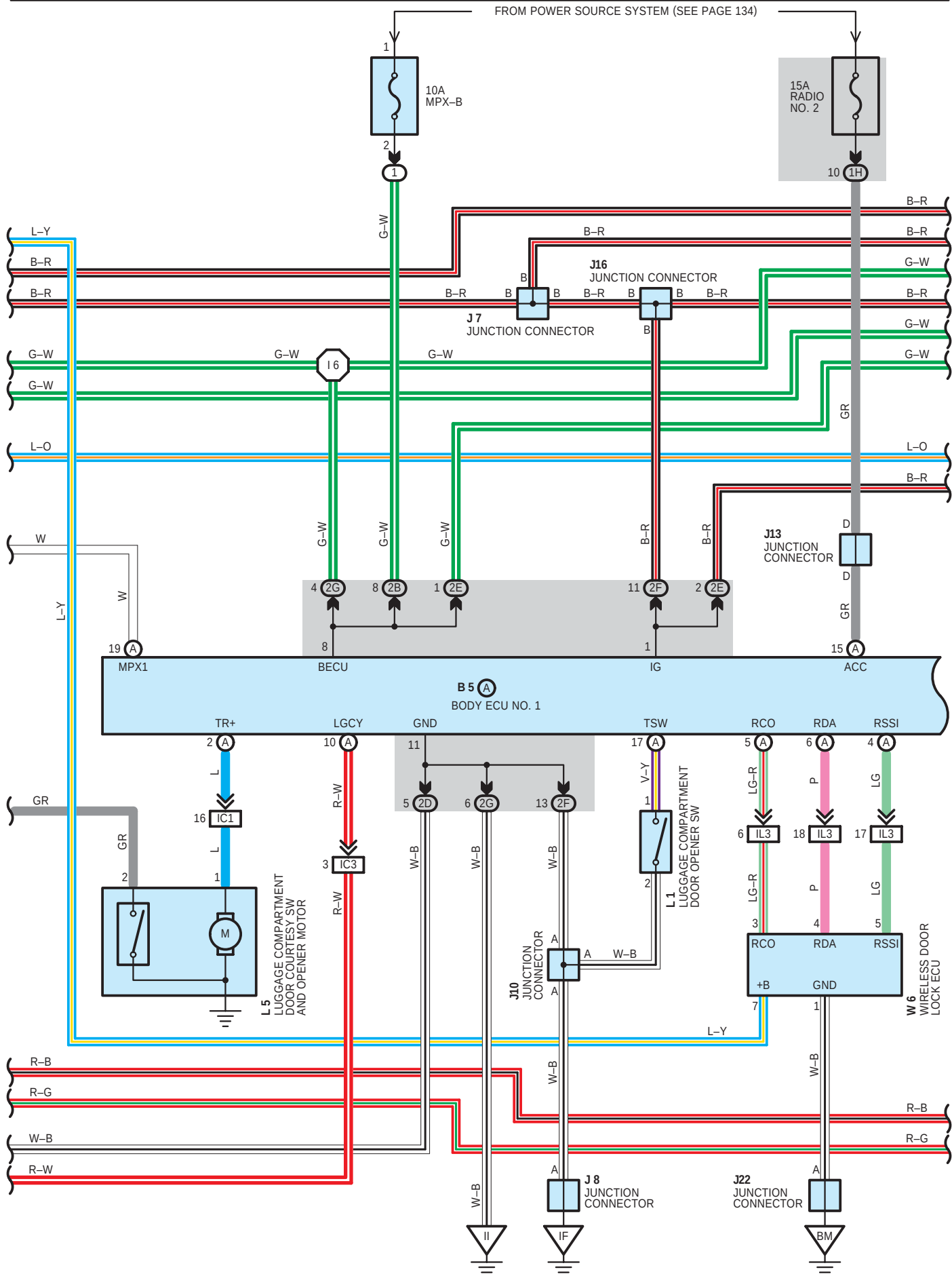
# MULTIPLEX COMMUNICATION SYSTEM (LHD)



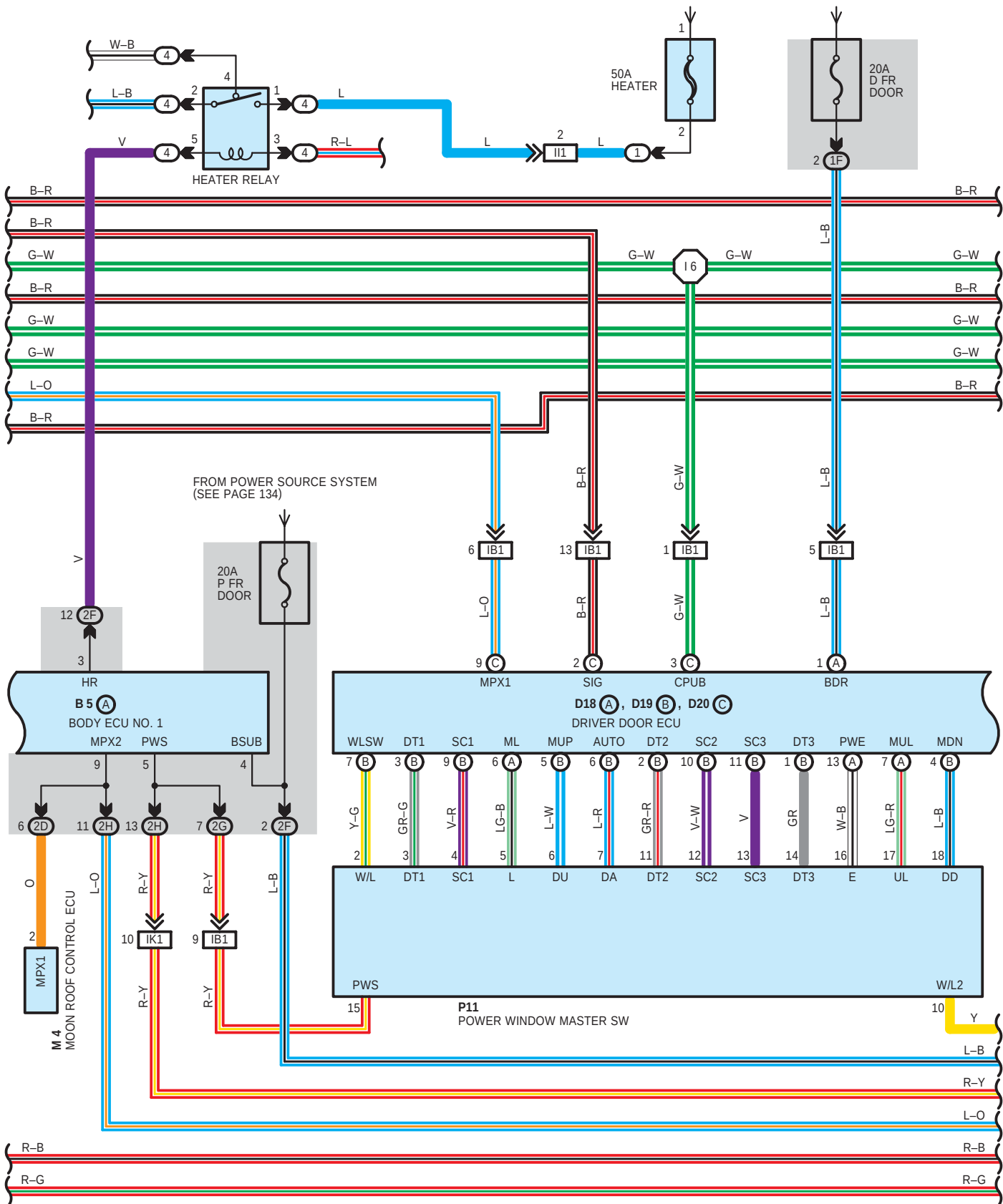


# MULTIPLEX COMMUNICATION SYSTEM (LHD)

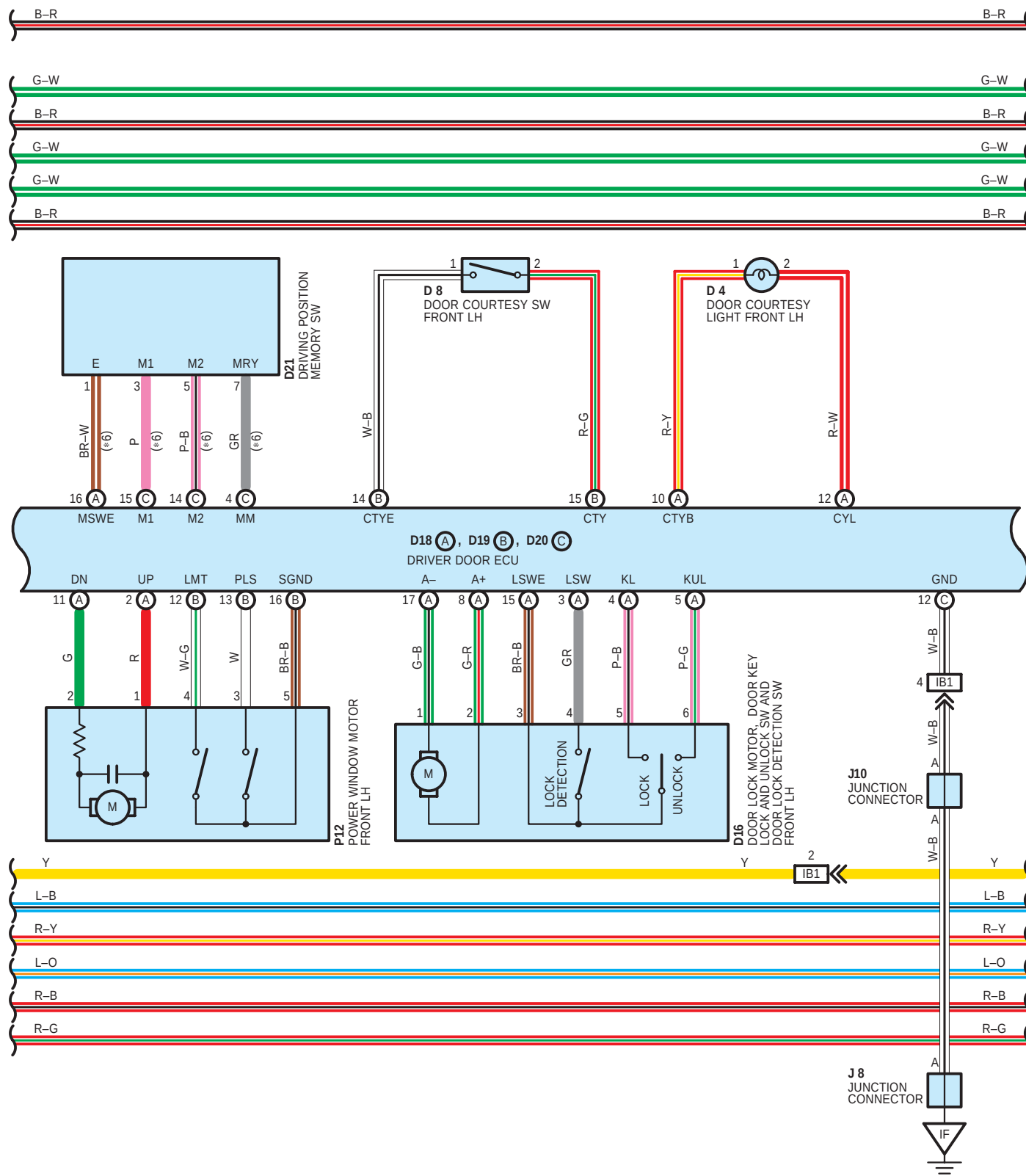


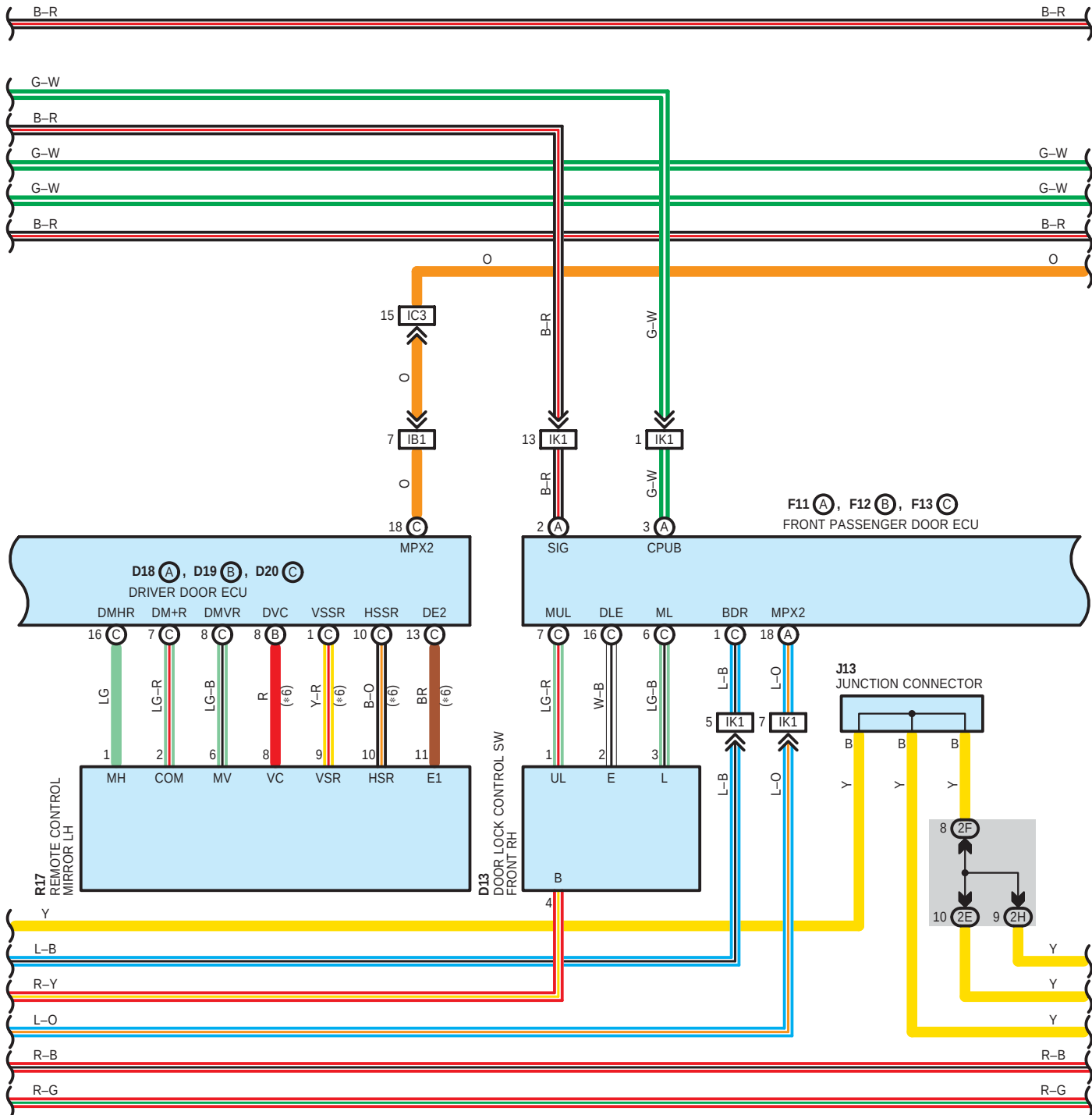






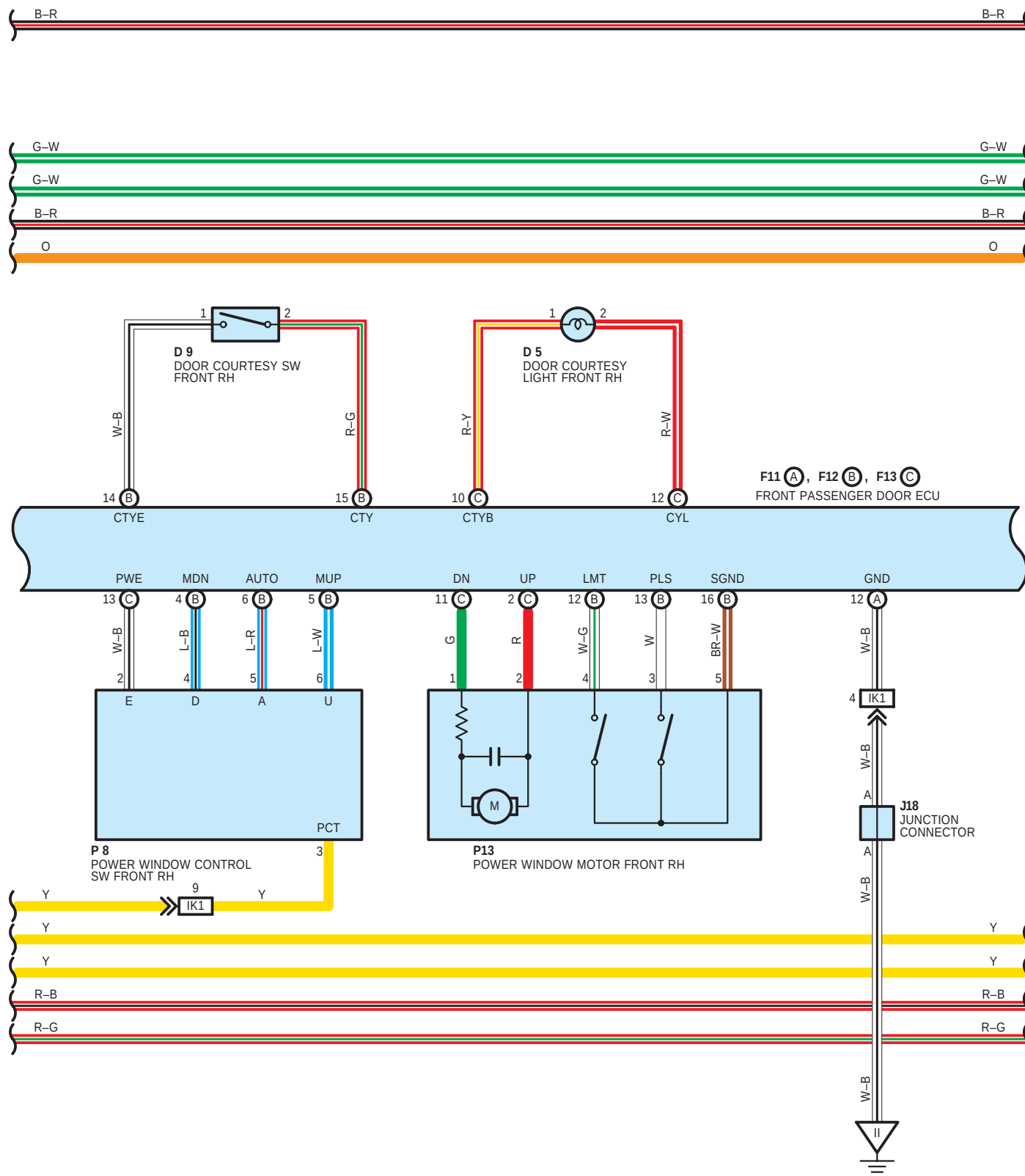
# MULTIPLEX COMMUNICATION SYSTEM (LHD)

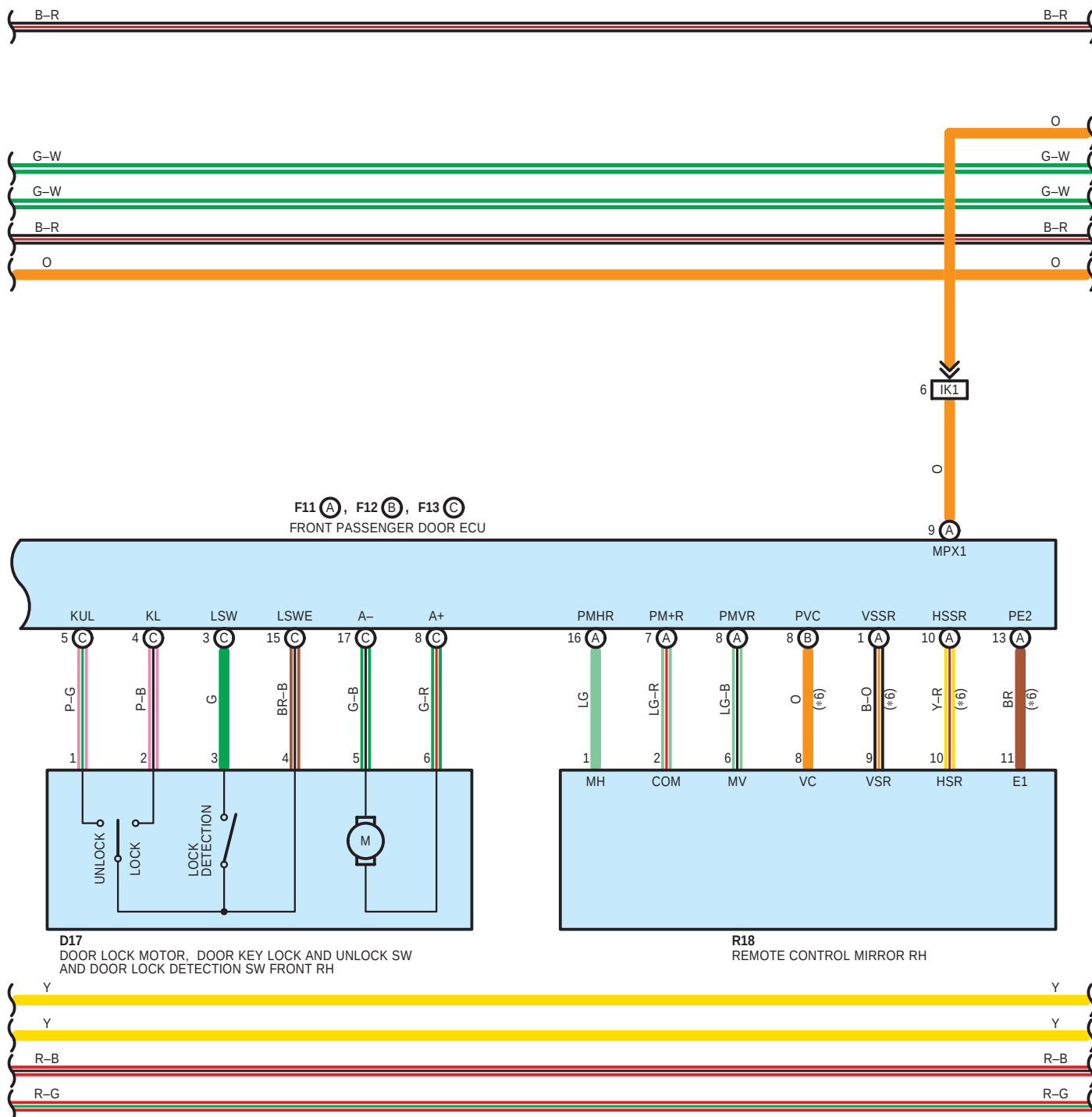






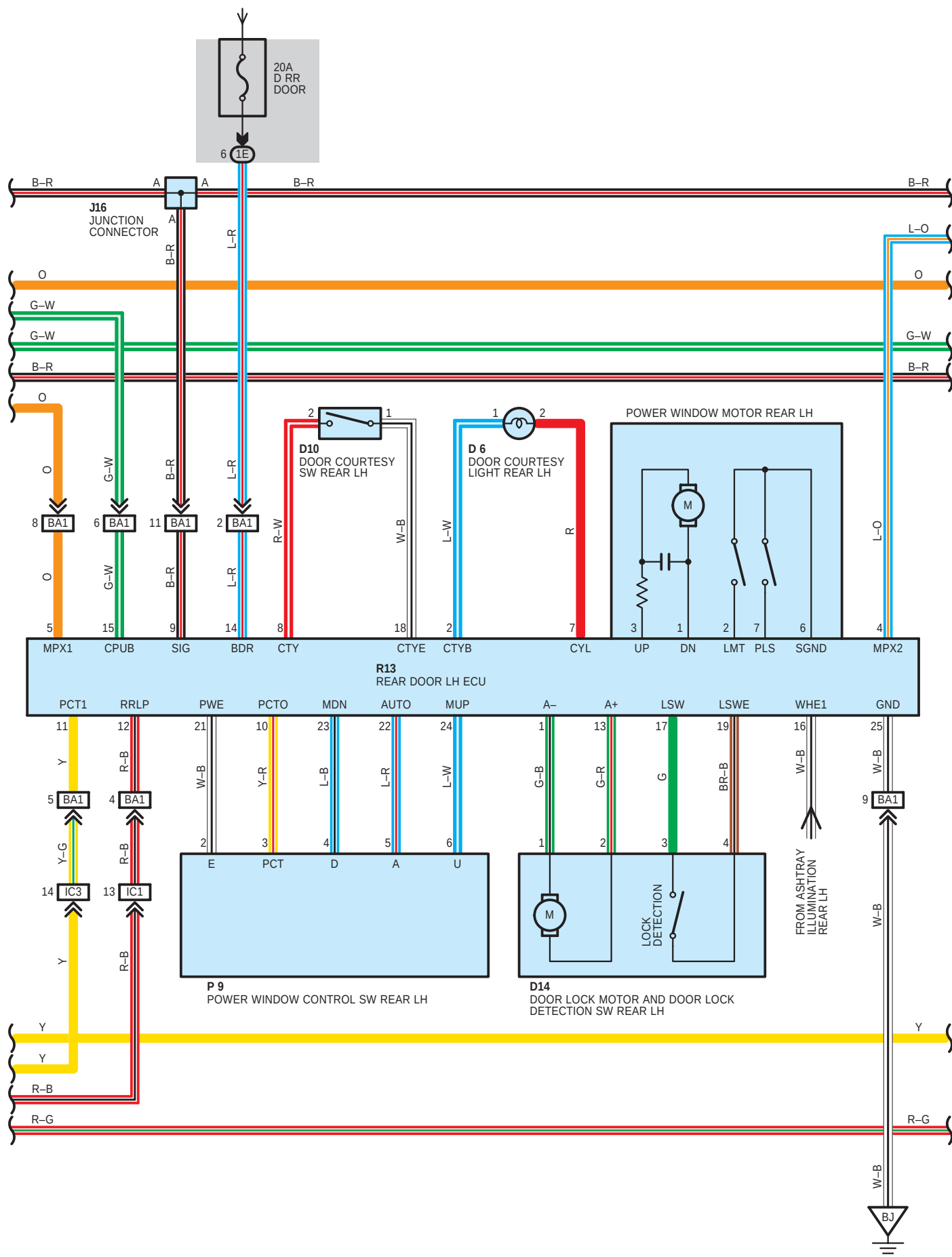
# MULTIPLEX COMMUNICATION SYSTEM (LHD)

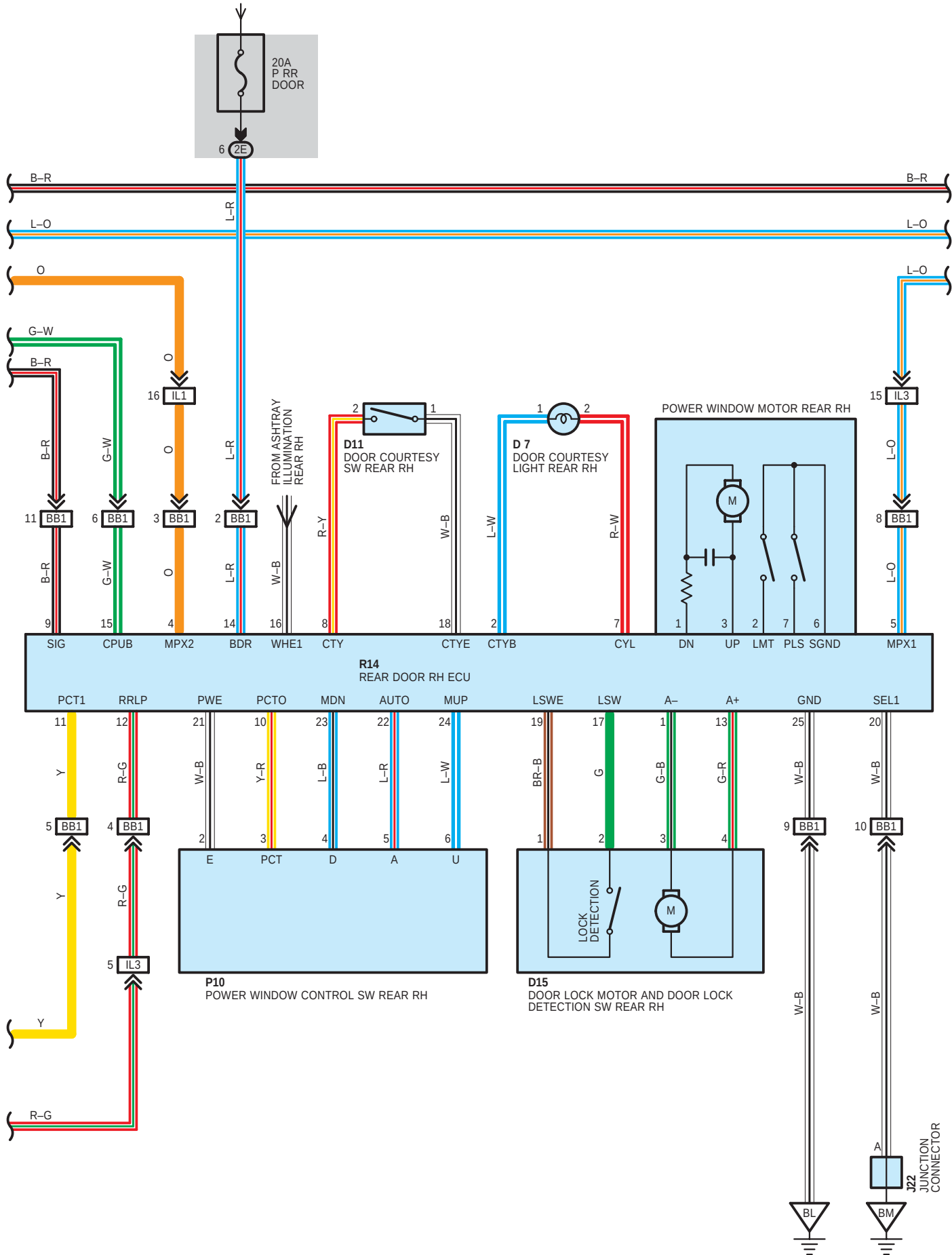


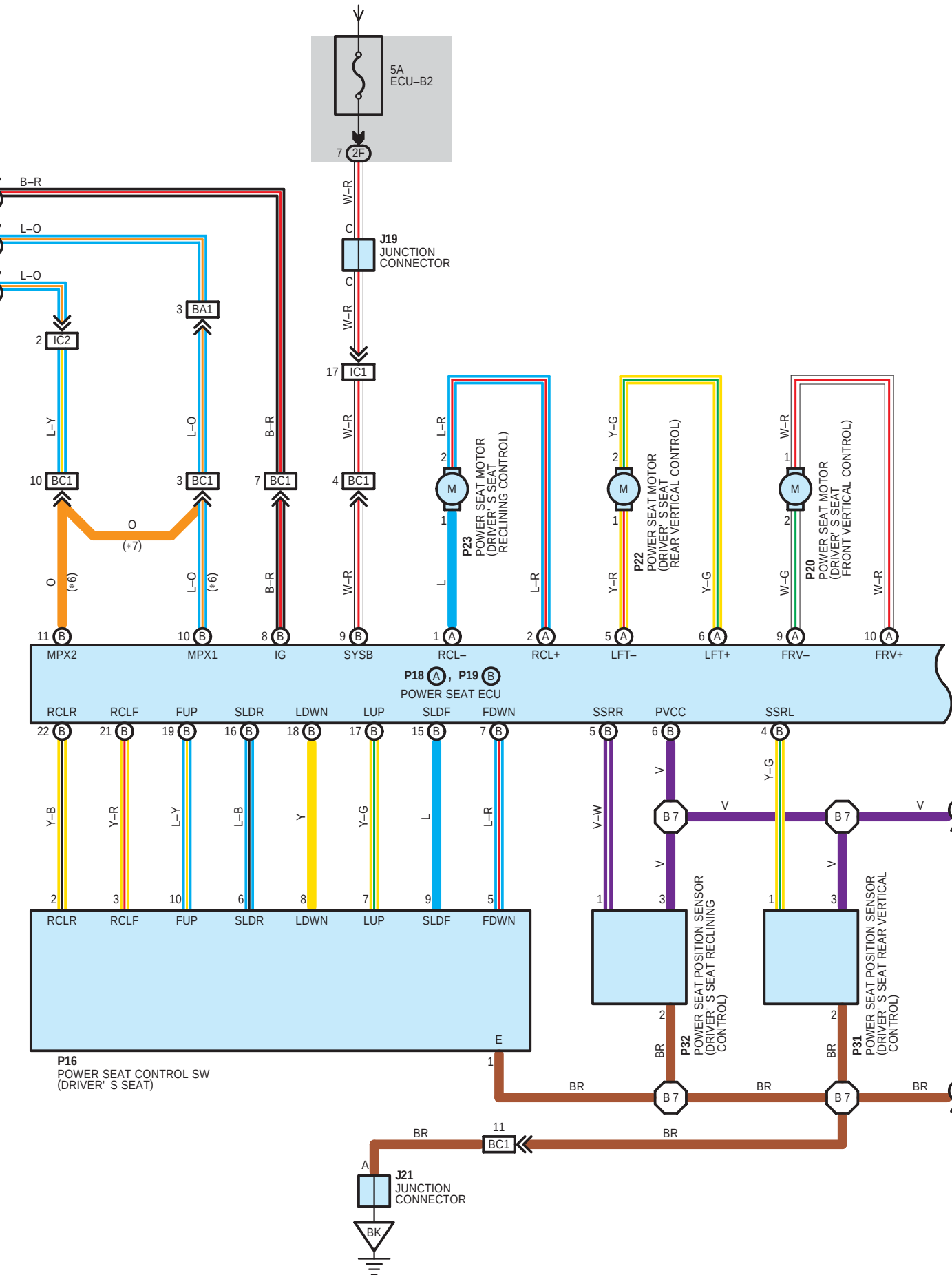


# MULTIPLEX COMMUNICATION SYSTEM (LHD)

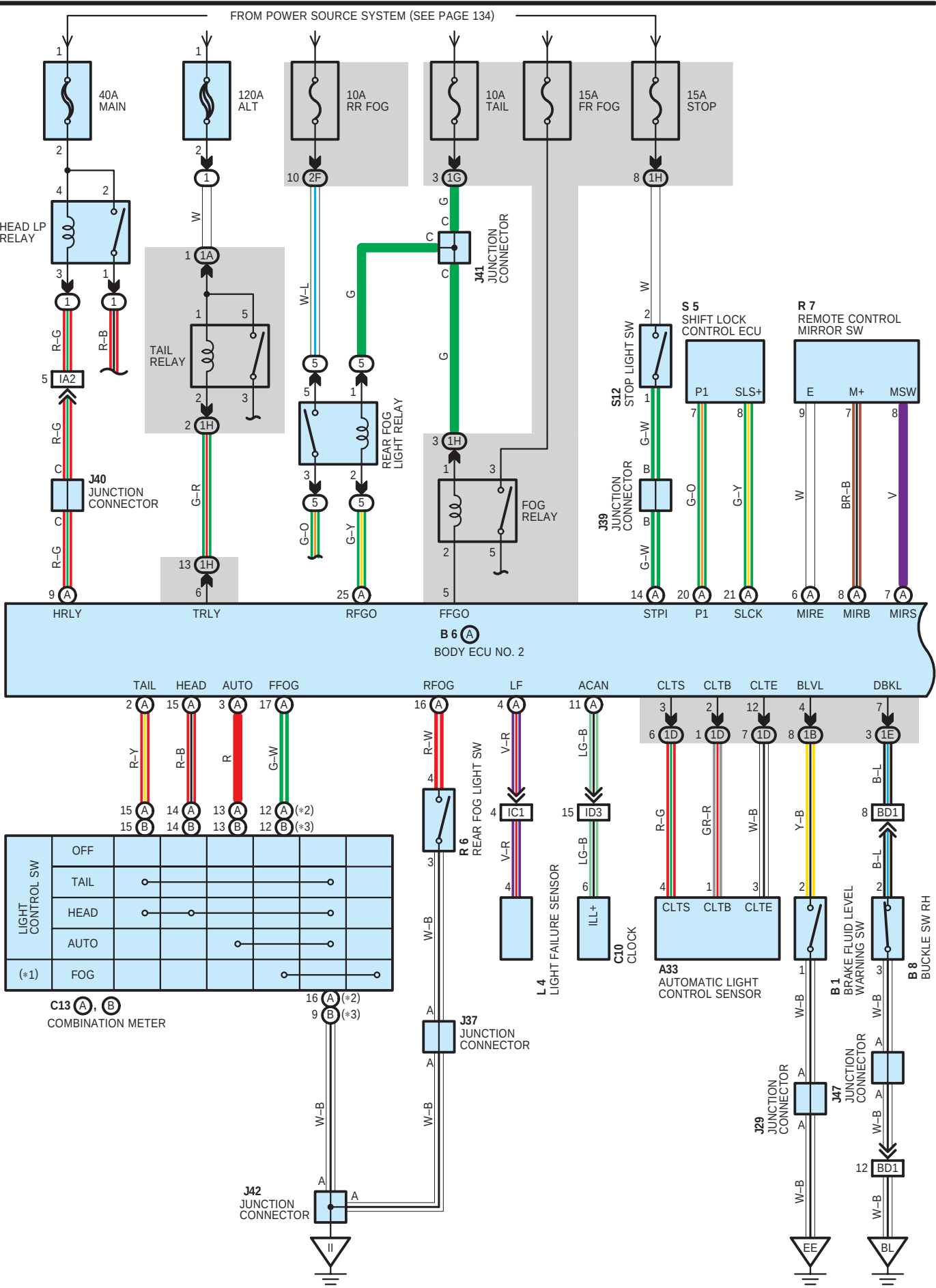
FROM POWER SOURCE SYSTEM (SEE PAGE 134)







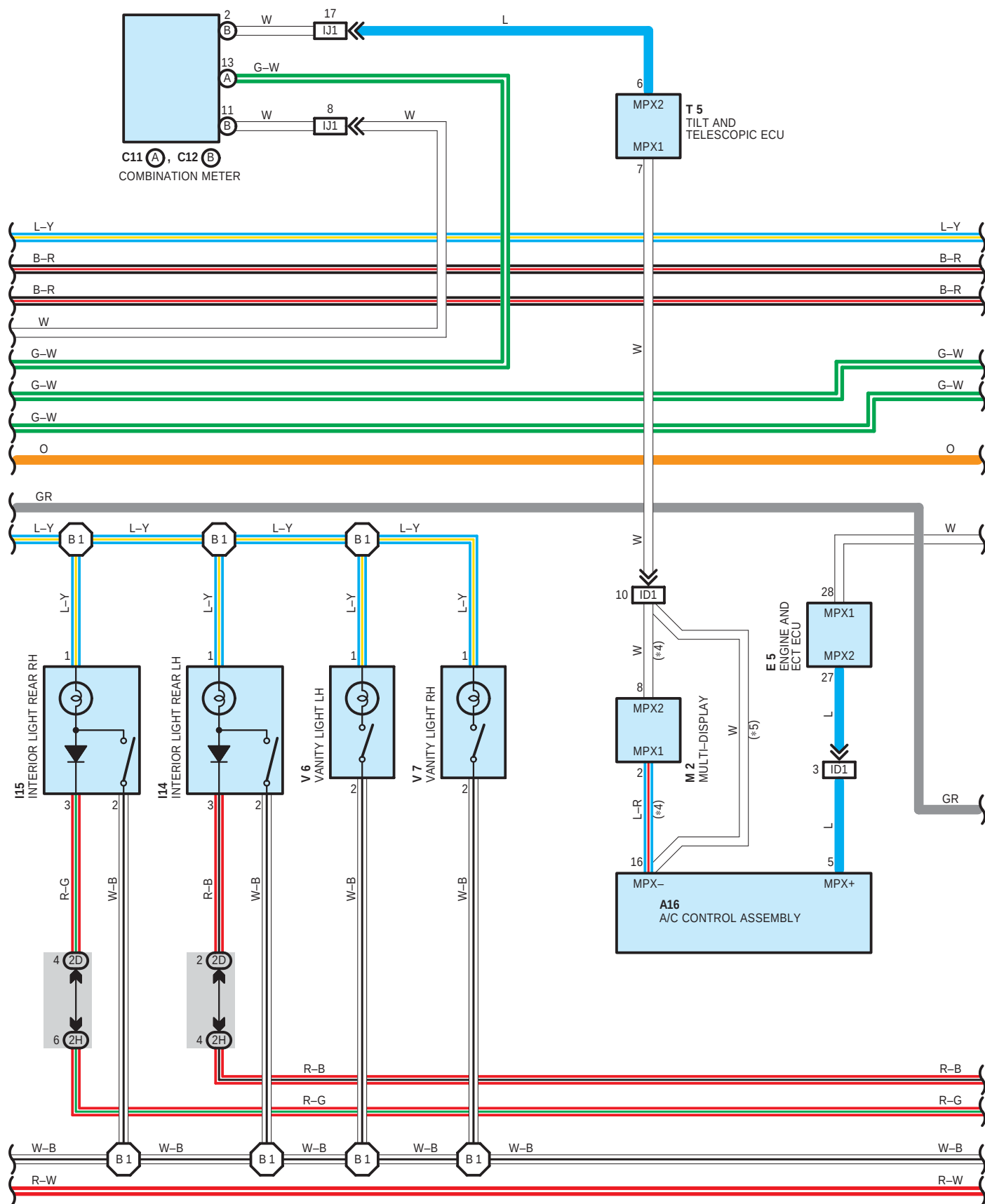








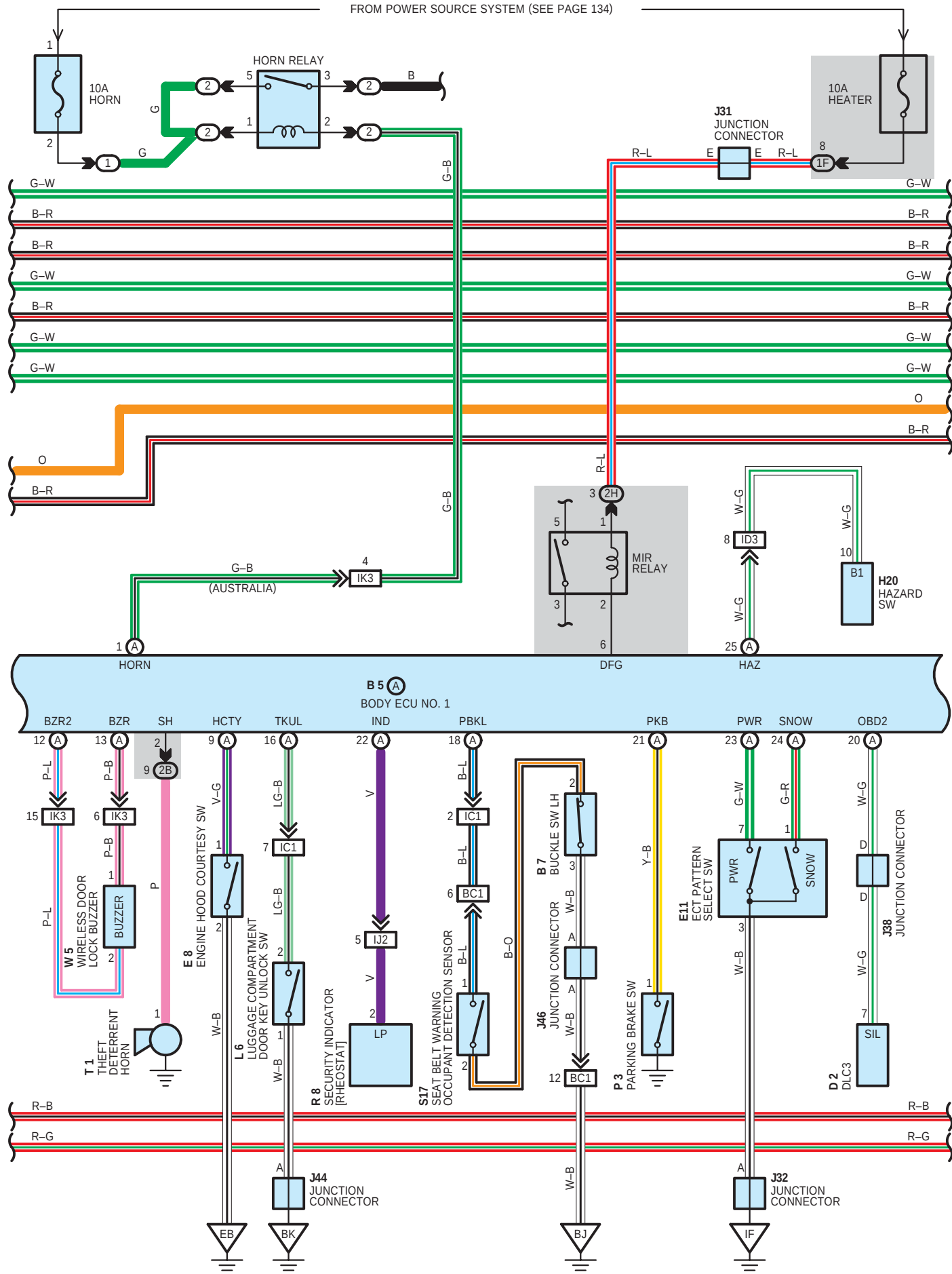
# MULTIPLEX COMMUNICATION SYSTEM (RHD)

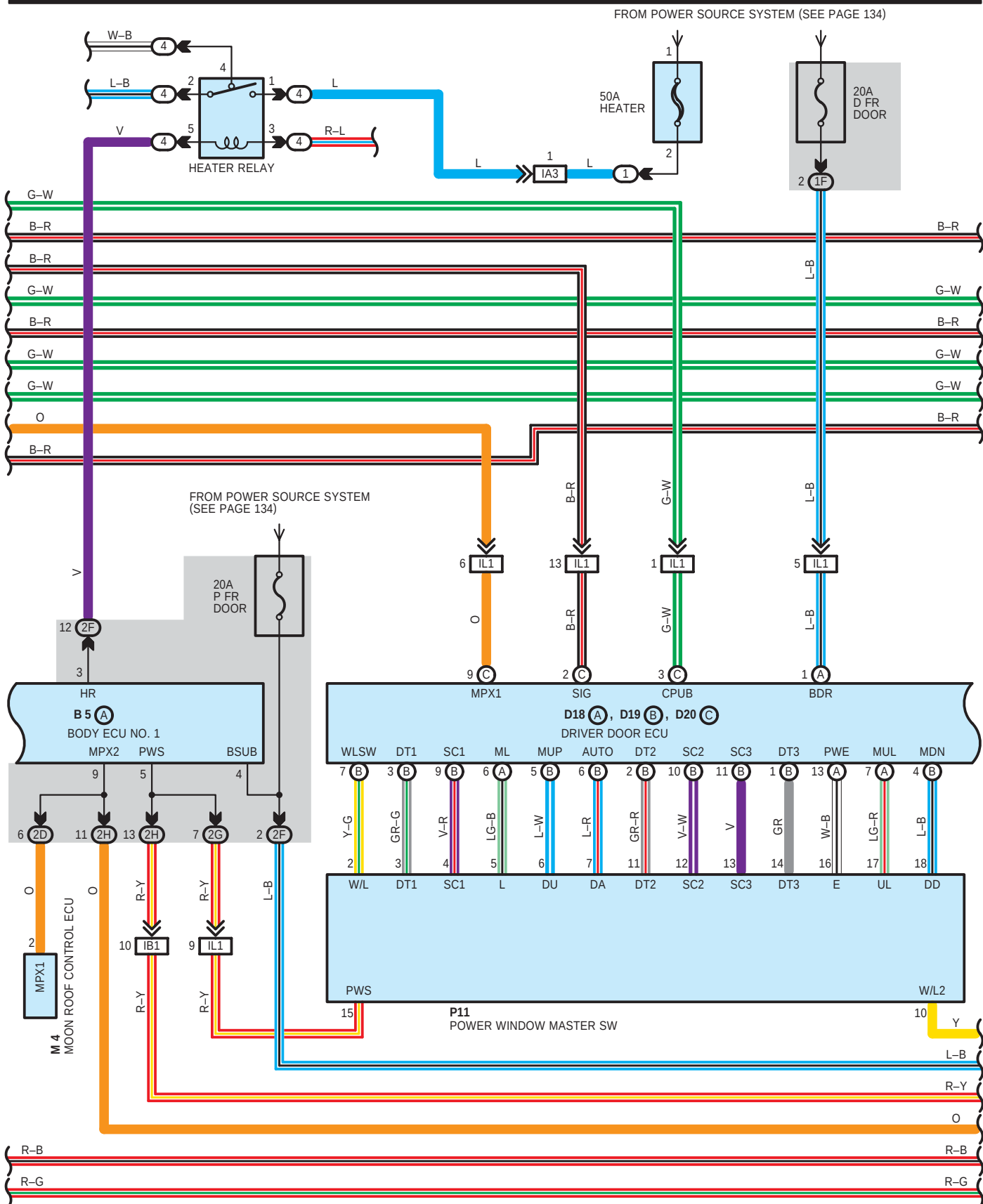




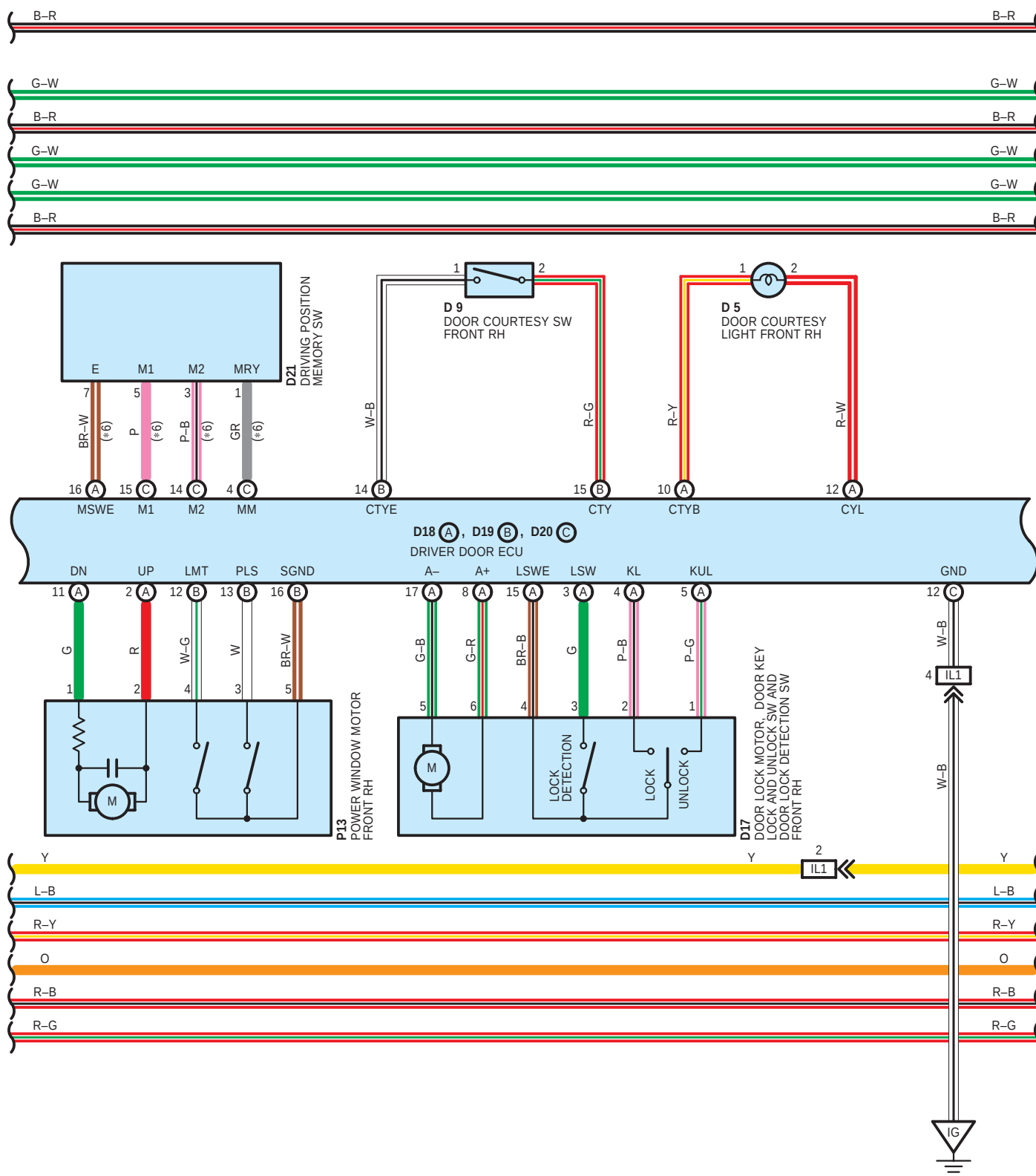
# MULTIPLEX COMMUNICATION SYSTEM (RHD)

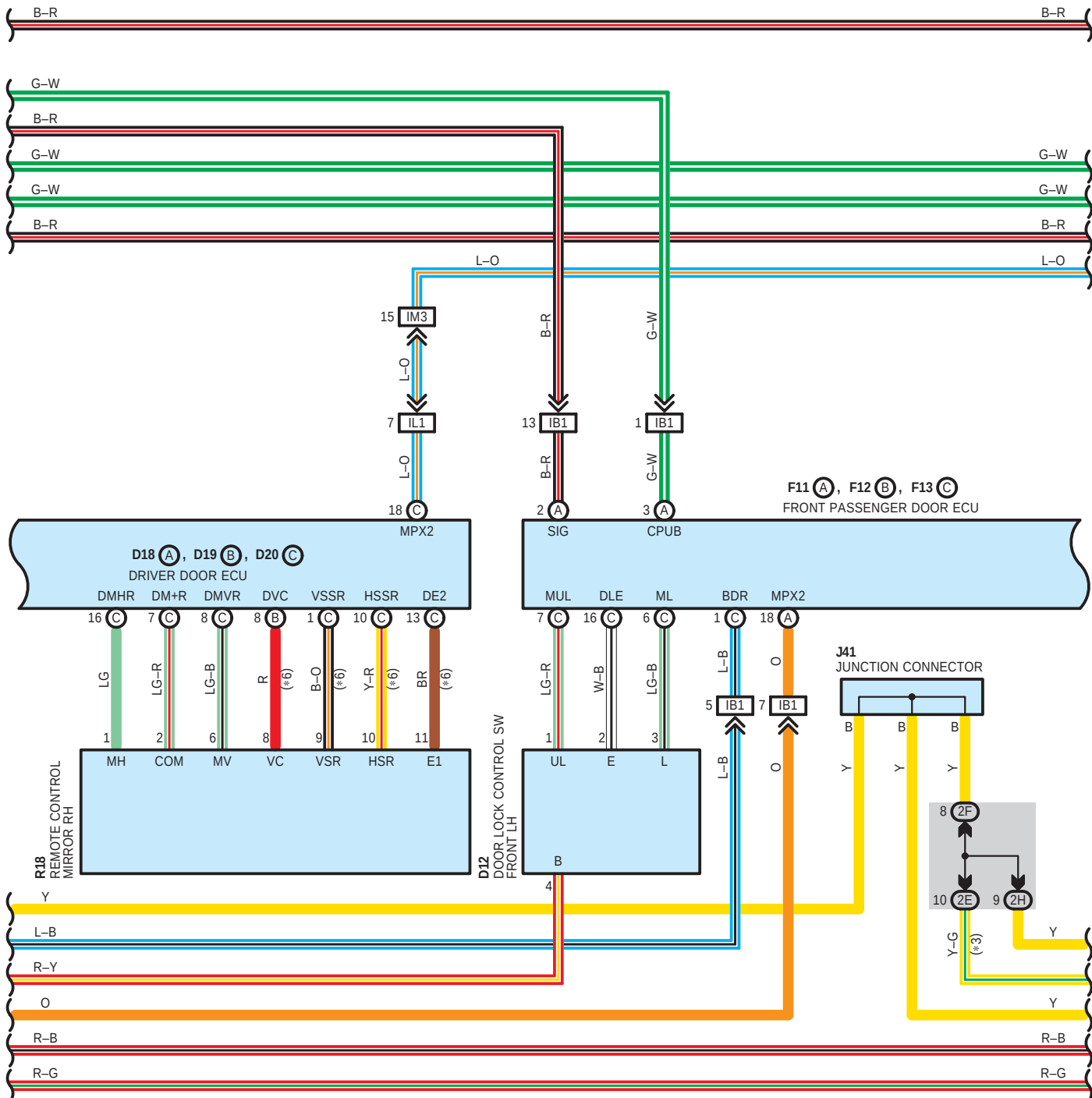
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



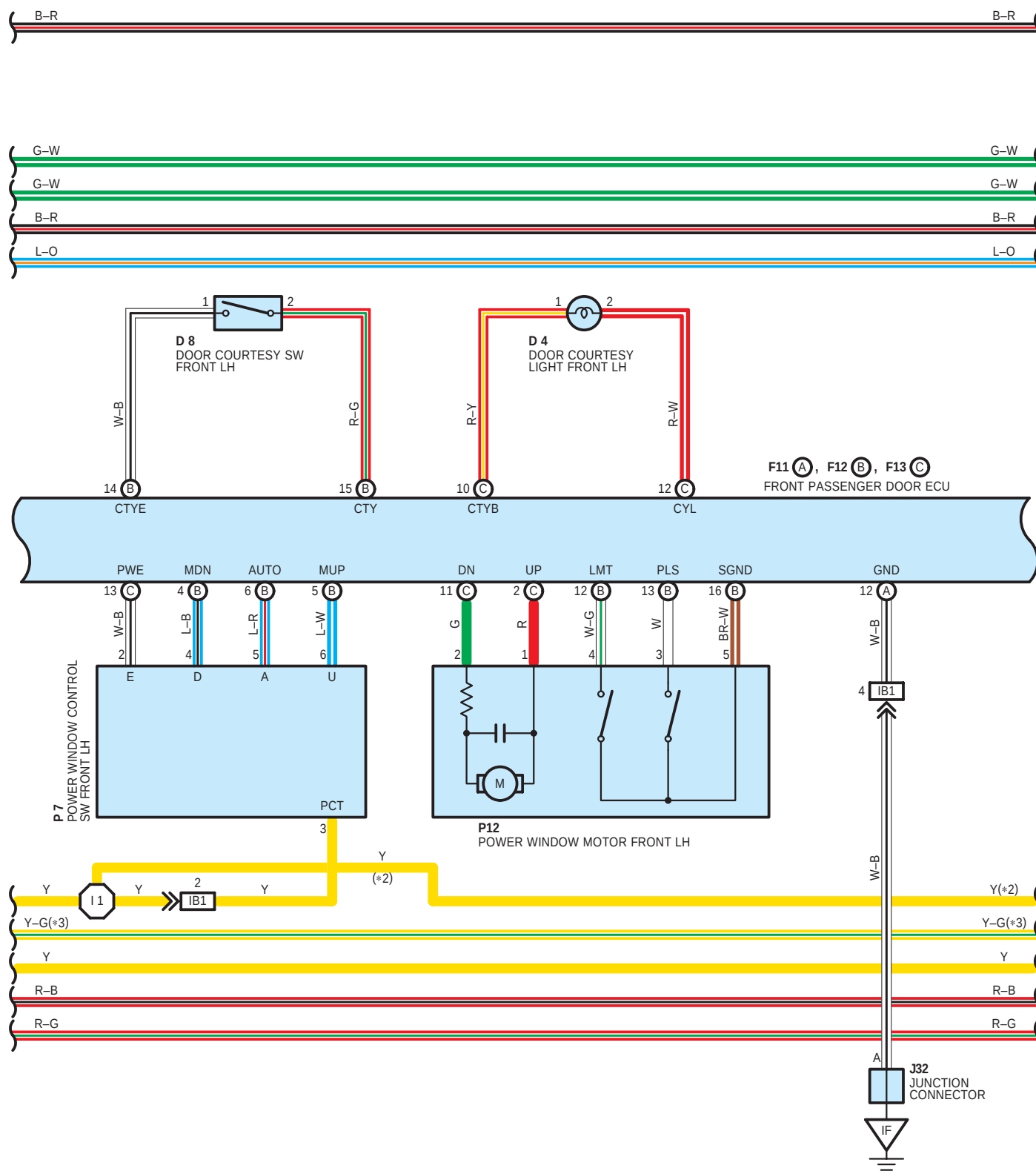


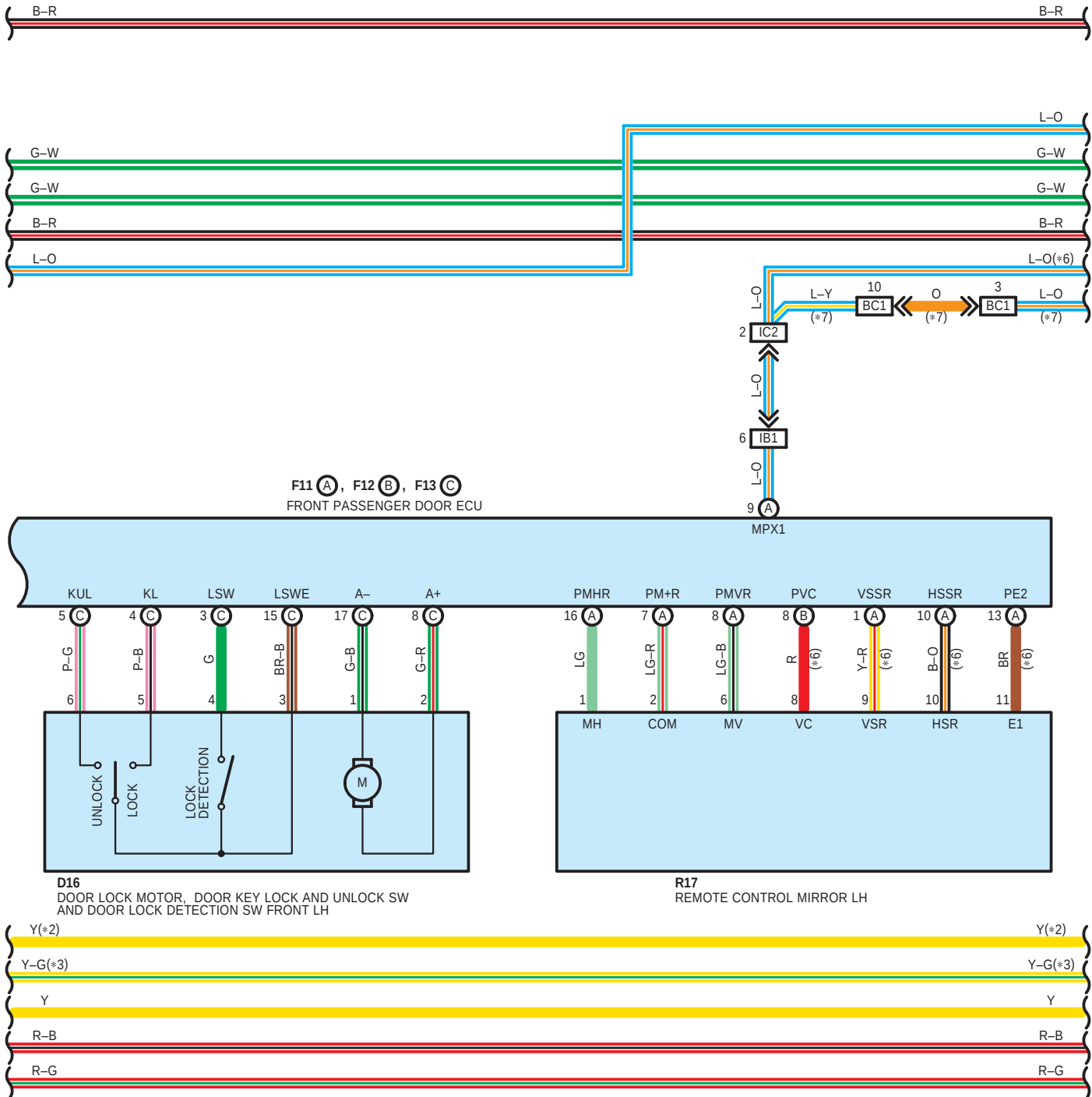
# MULTIPLEX COMMUNICATION SYSTEM (RHD)





# MULTIPLEX COMMUNICATION SYSTEM (RHD)

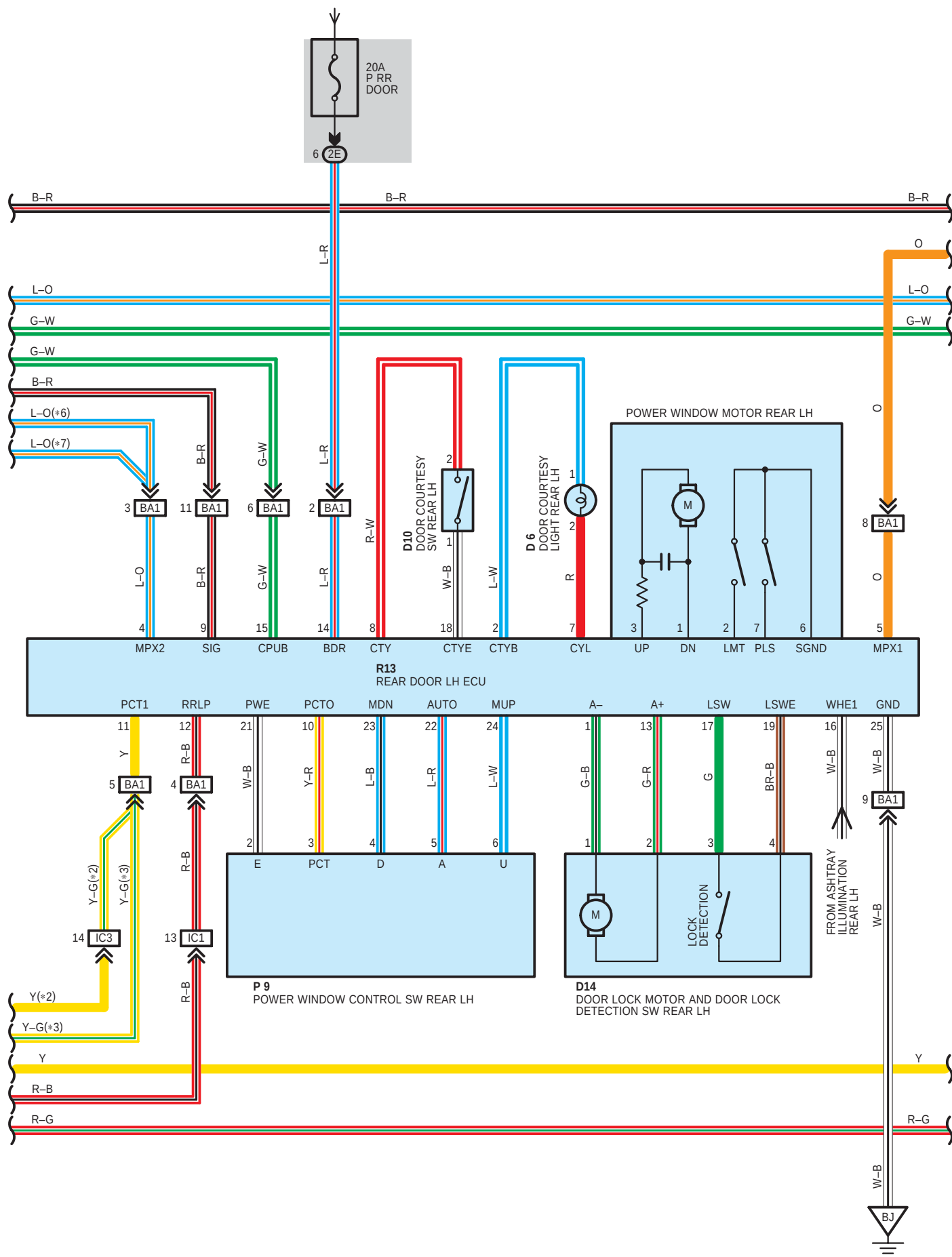




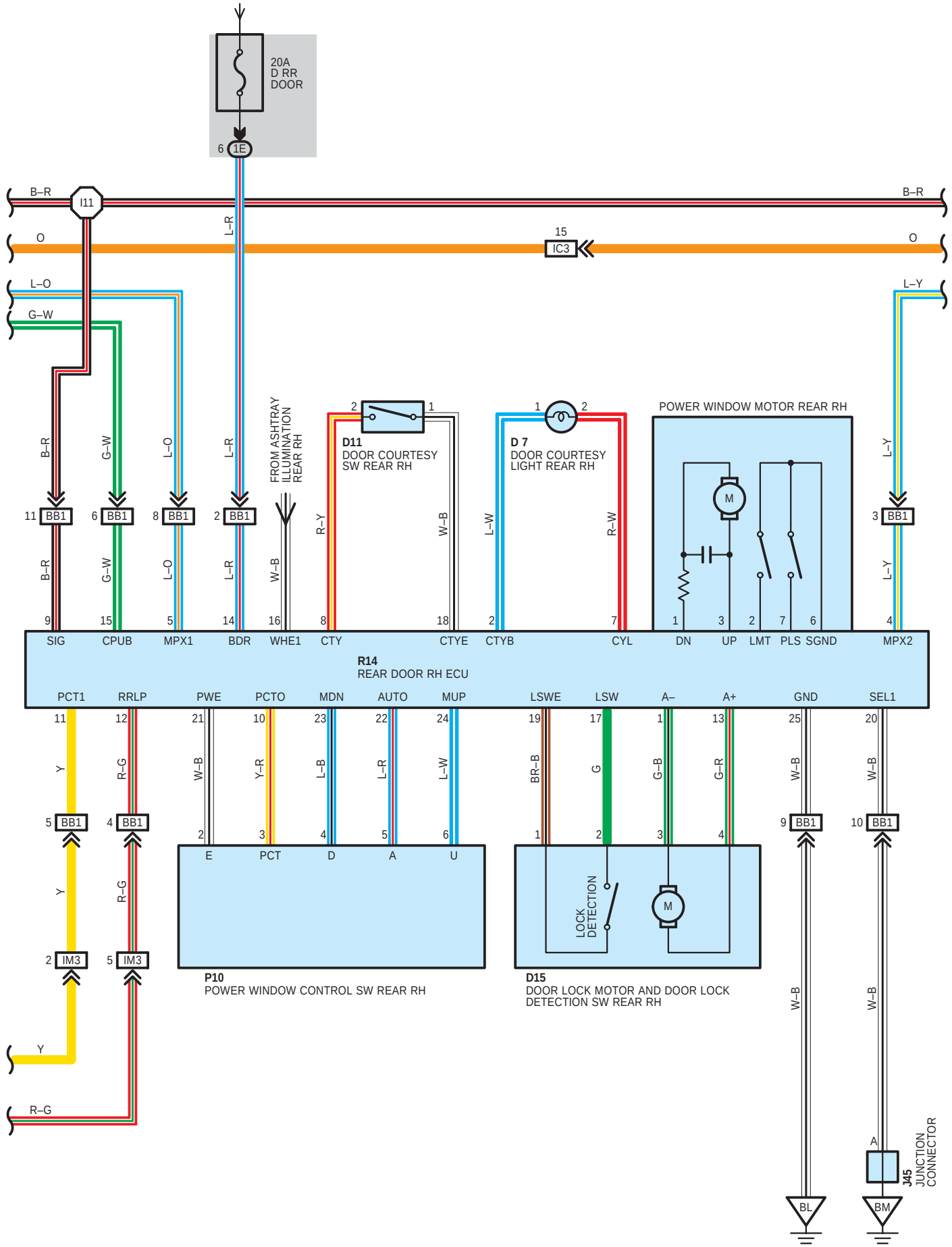


# MULTIPLEX COMMUNICATION SYSTEM (RHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)

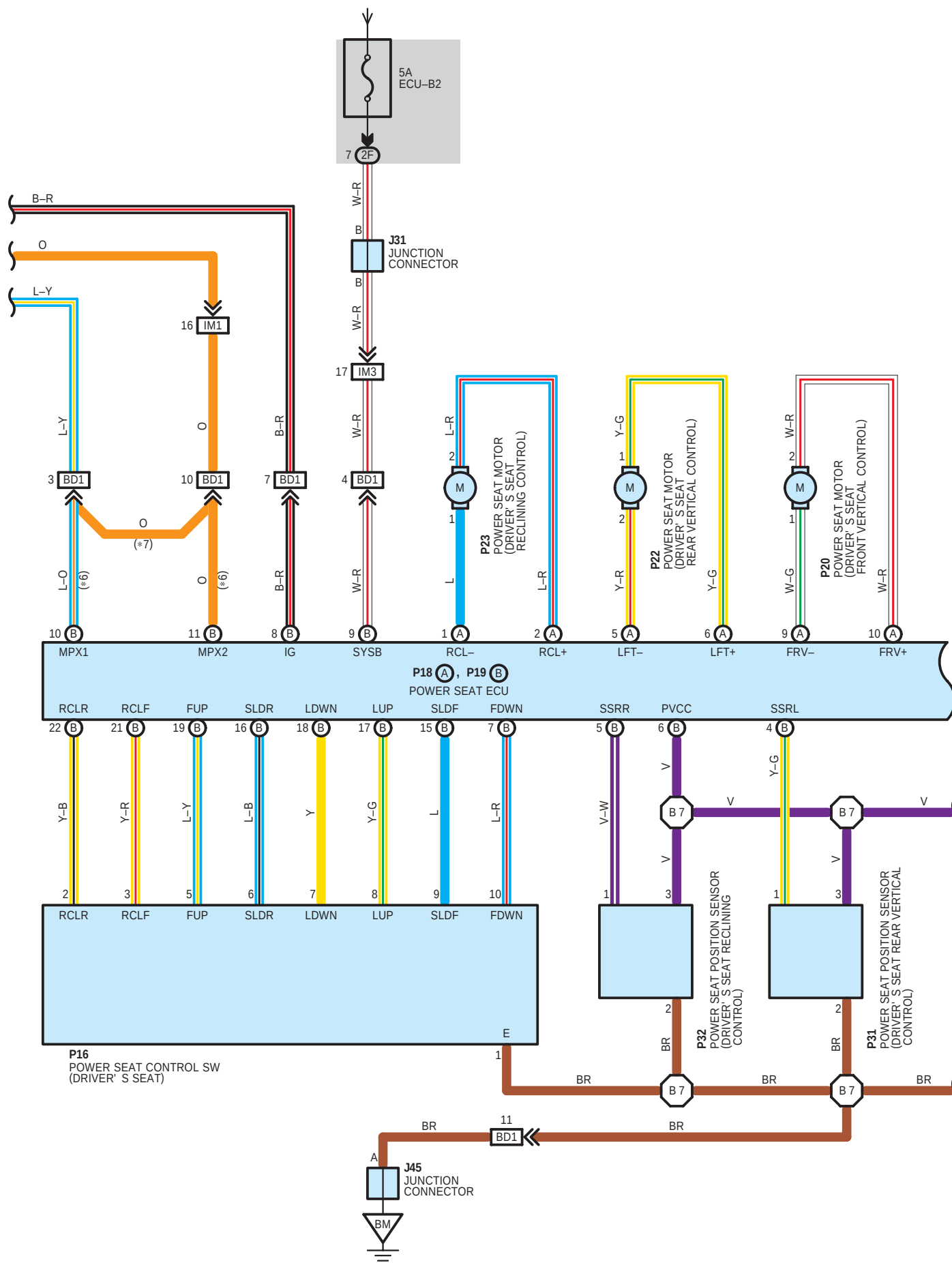


FROM POWER SOURCE SYSTEM (SEE PAGE 134)

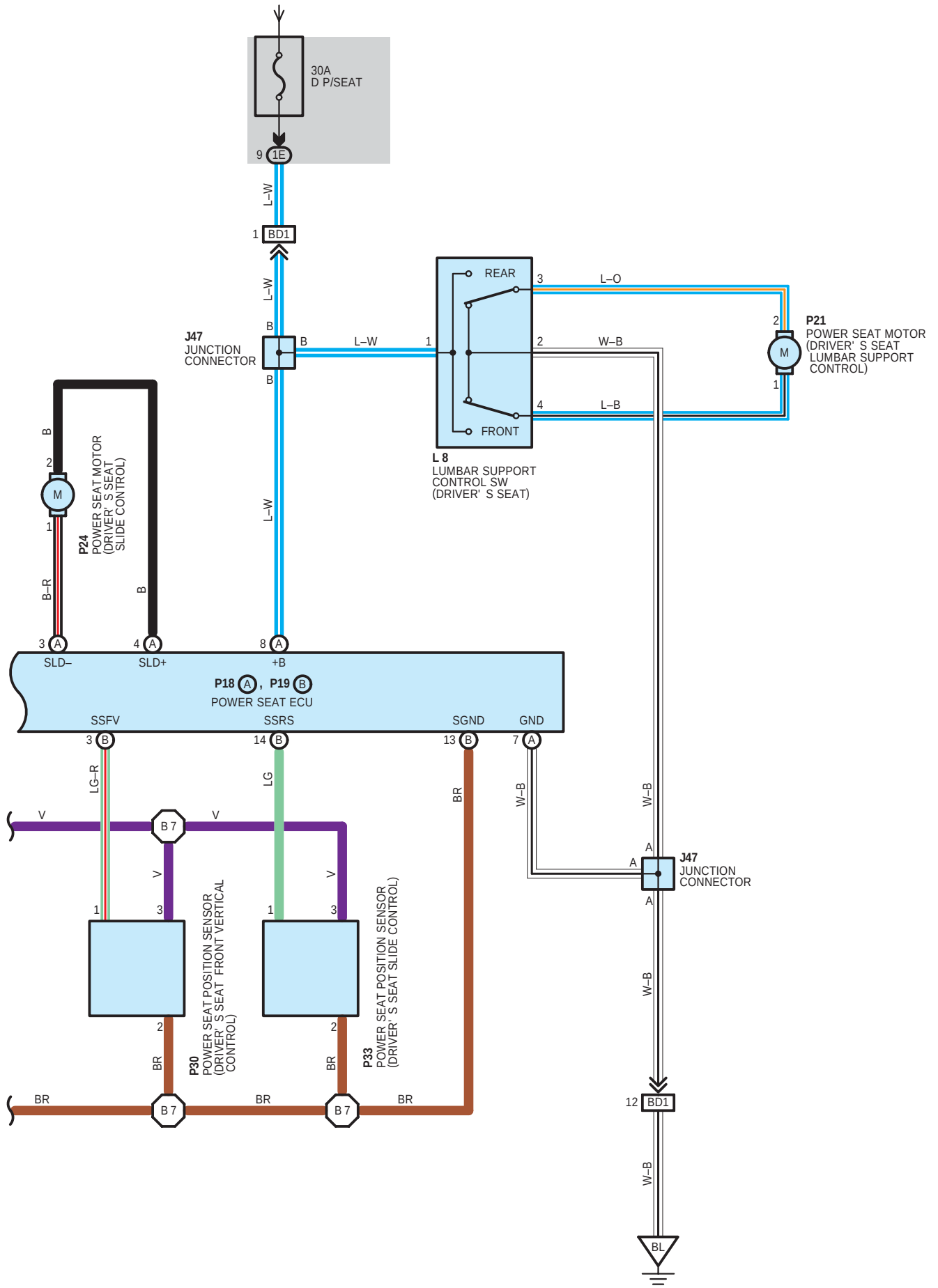


# MULTIPLEX COMMUNICATION SYSTEM (RHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)

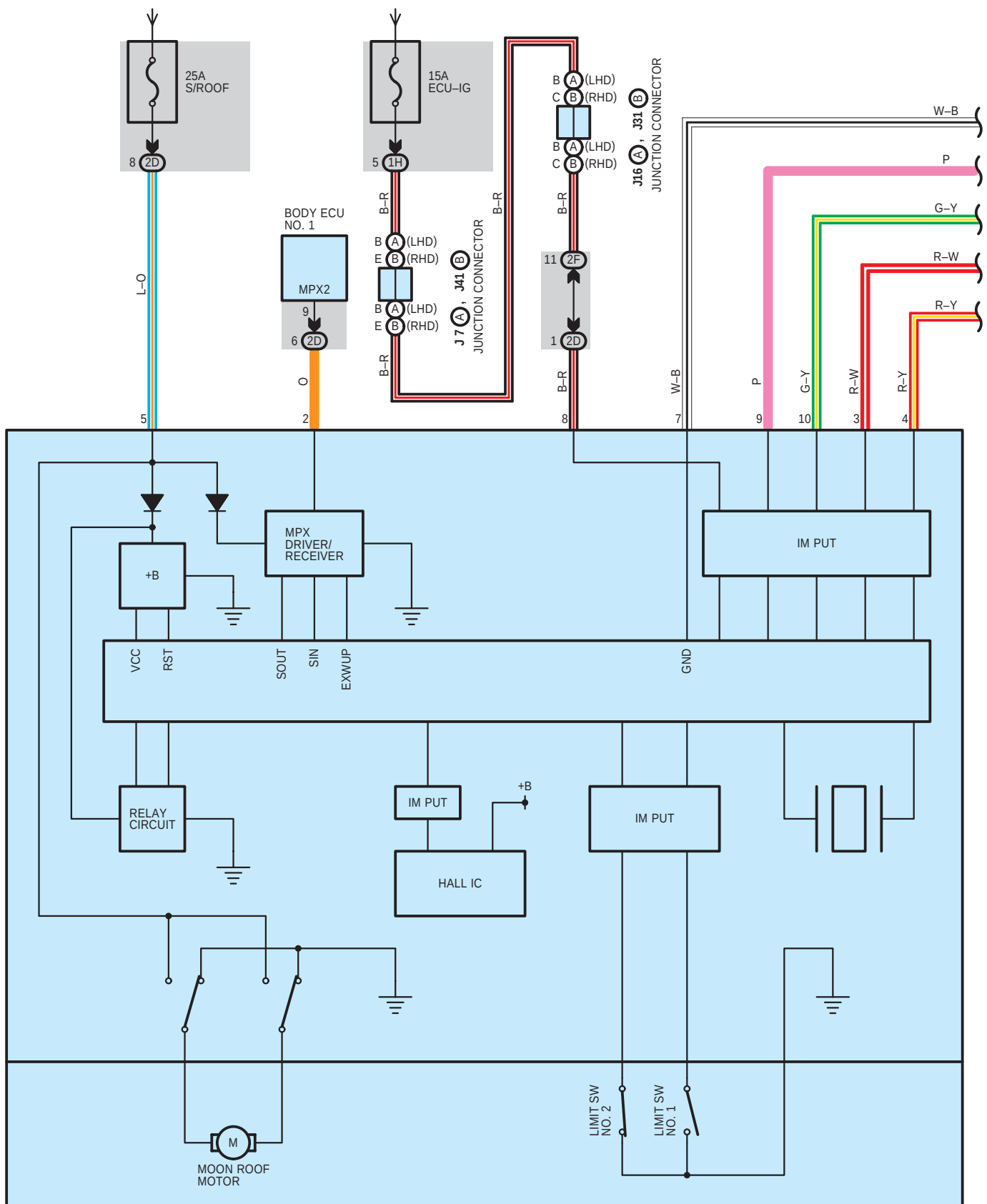


FROM POWER SOURCE SYSTEM (SEE PAGE 134)

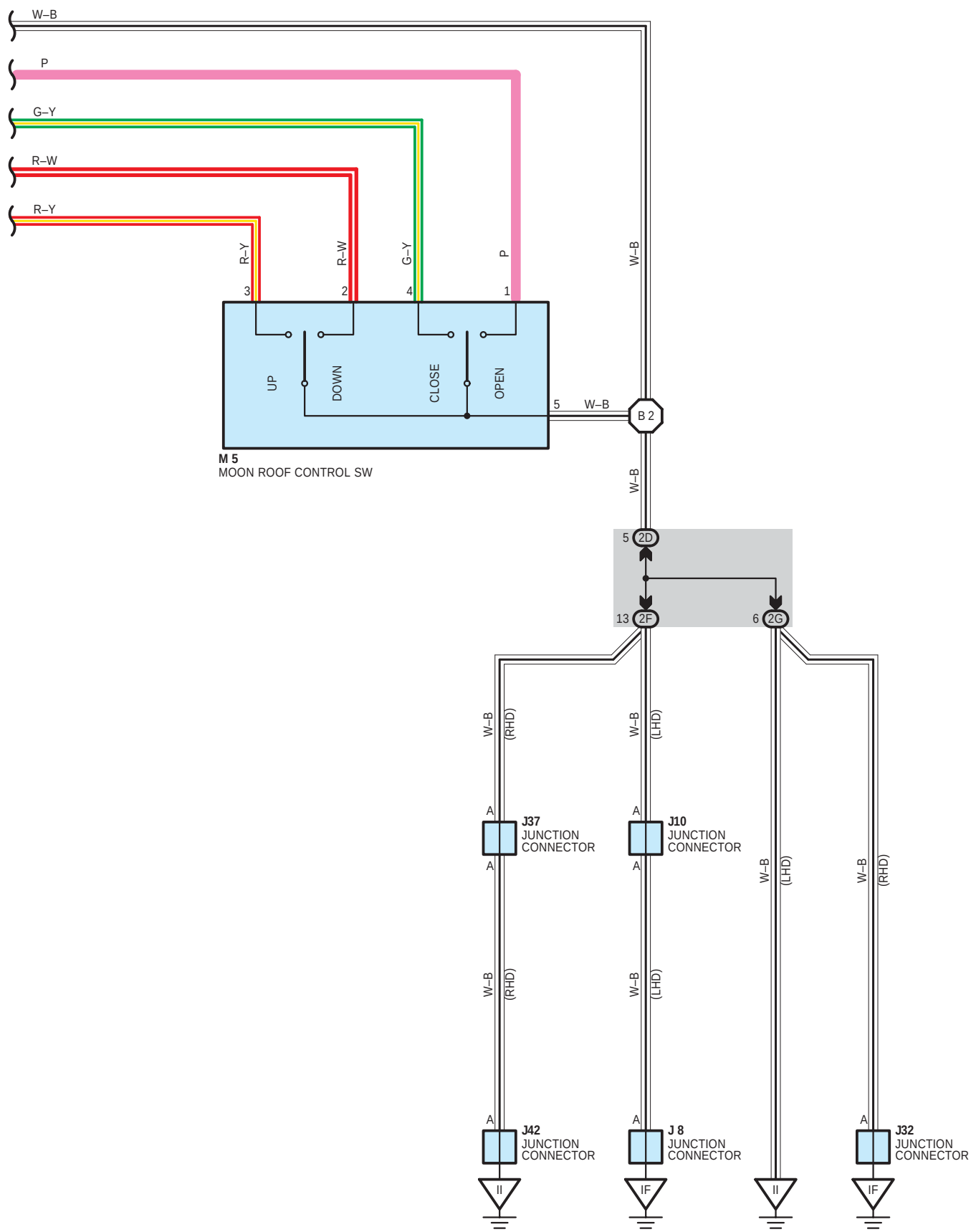


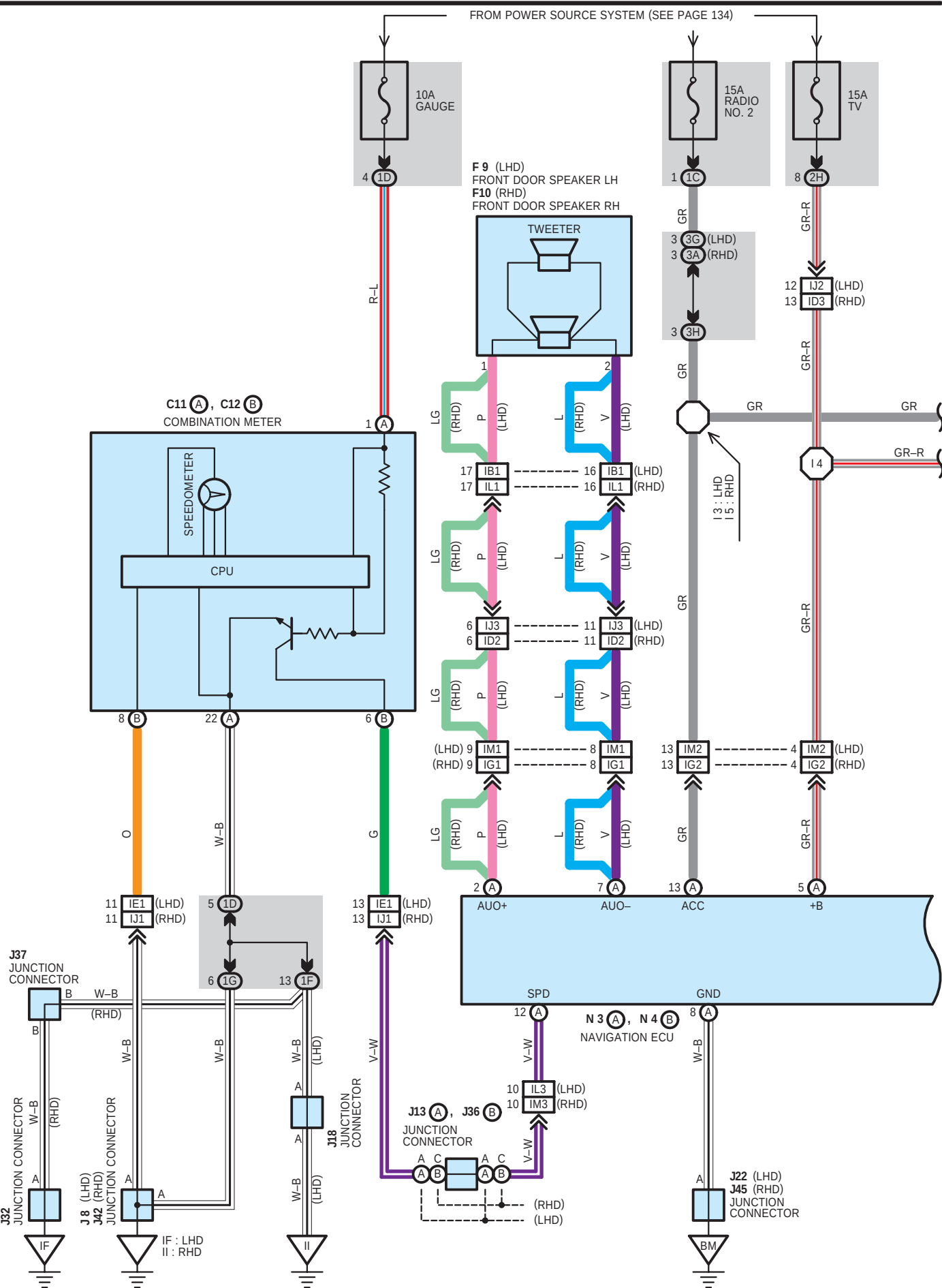
# MOON ROOF

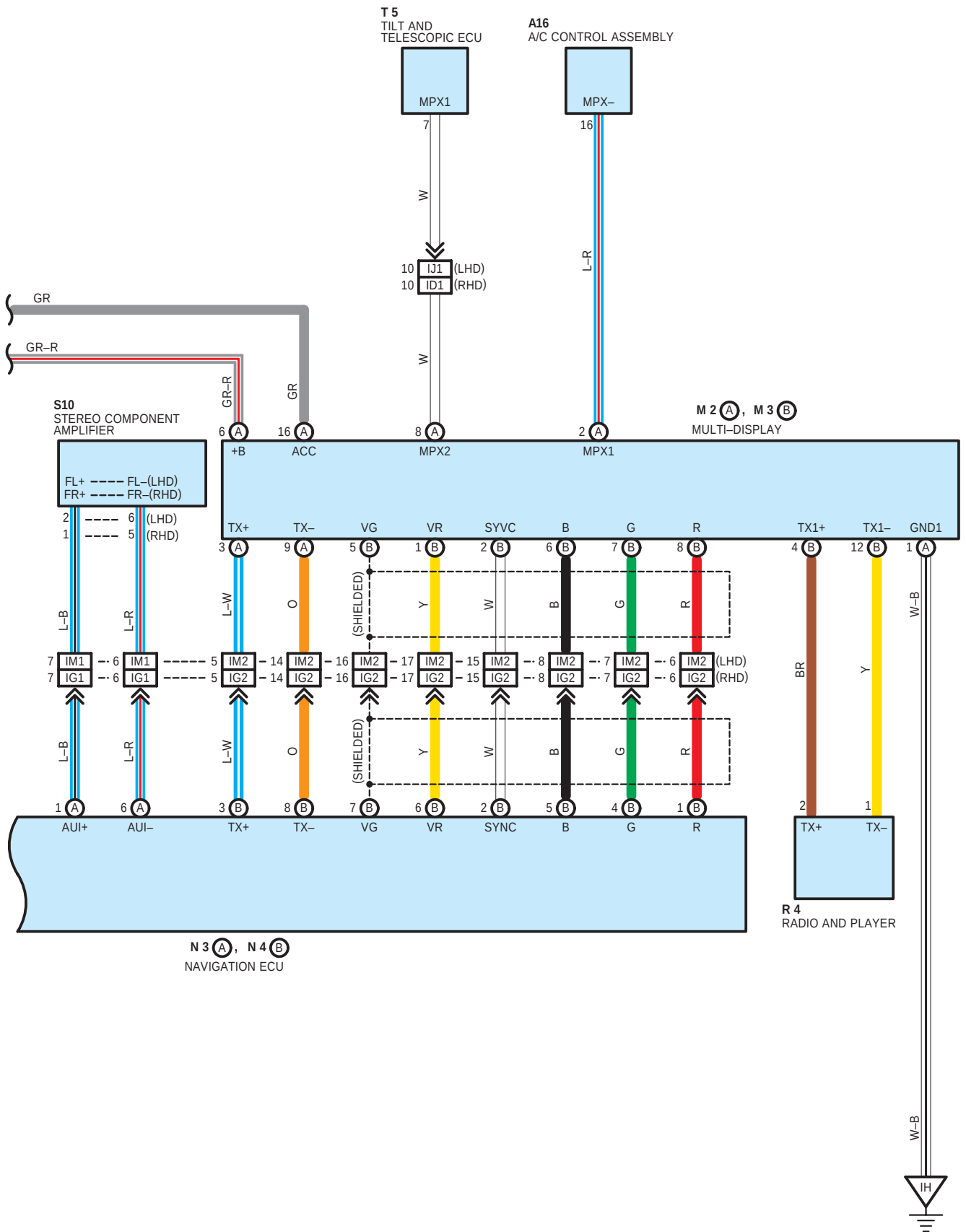
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



M 4  
MOON ROOF CONTROL ECU

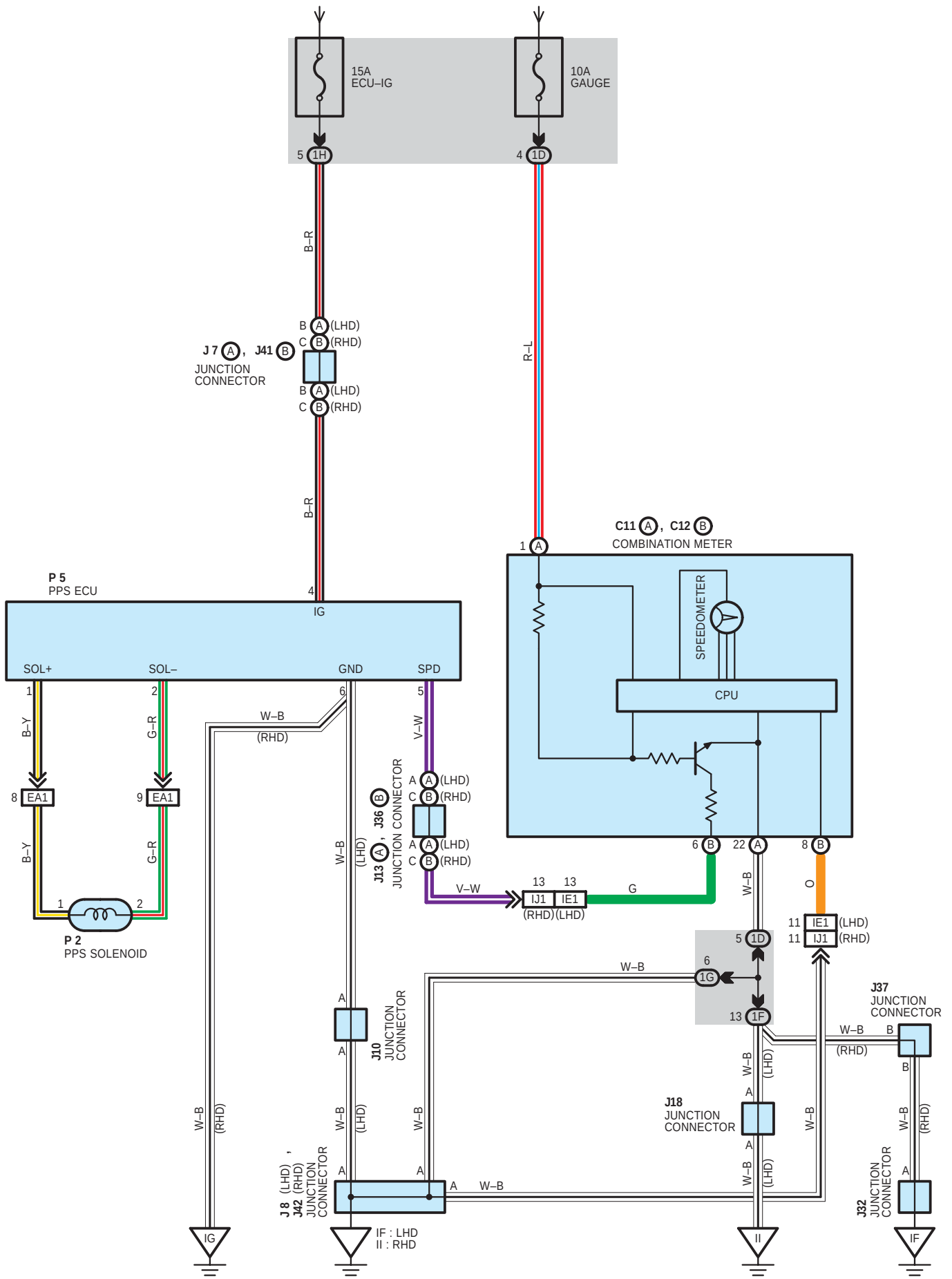




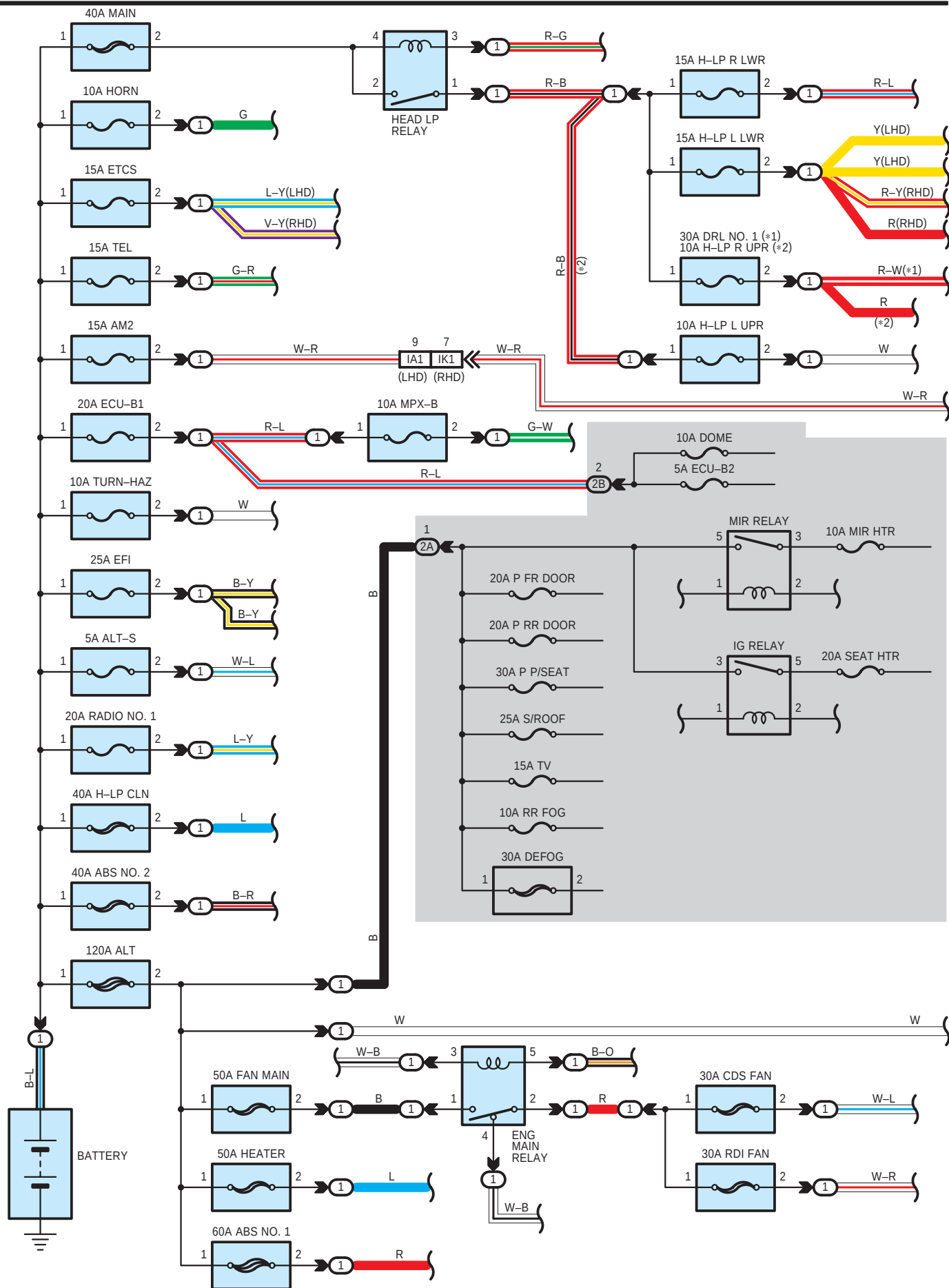


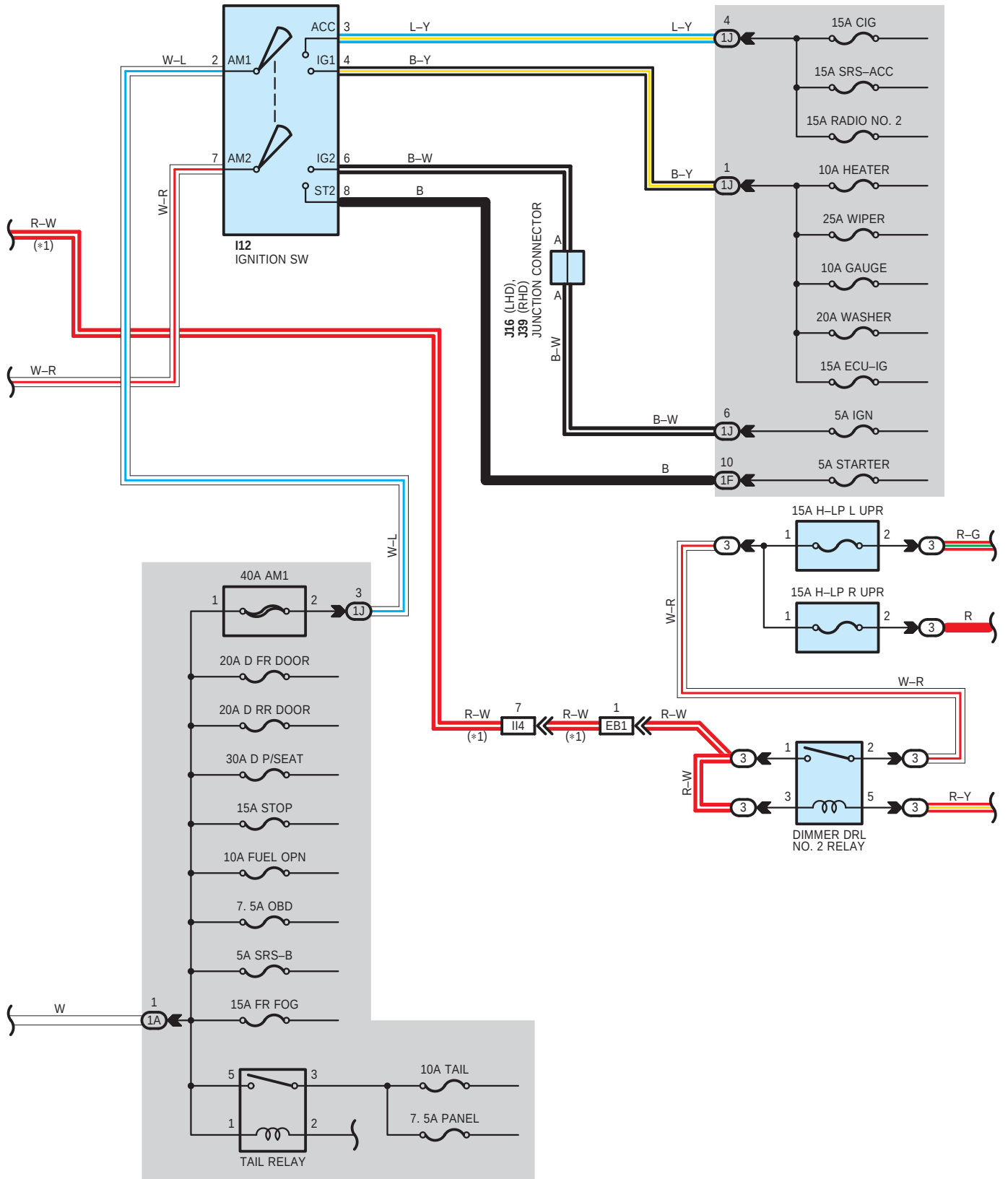


FROM POWER SOURCE SYSTEM (SEE PAGE 134)



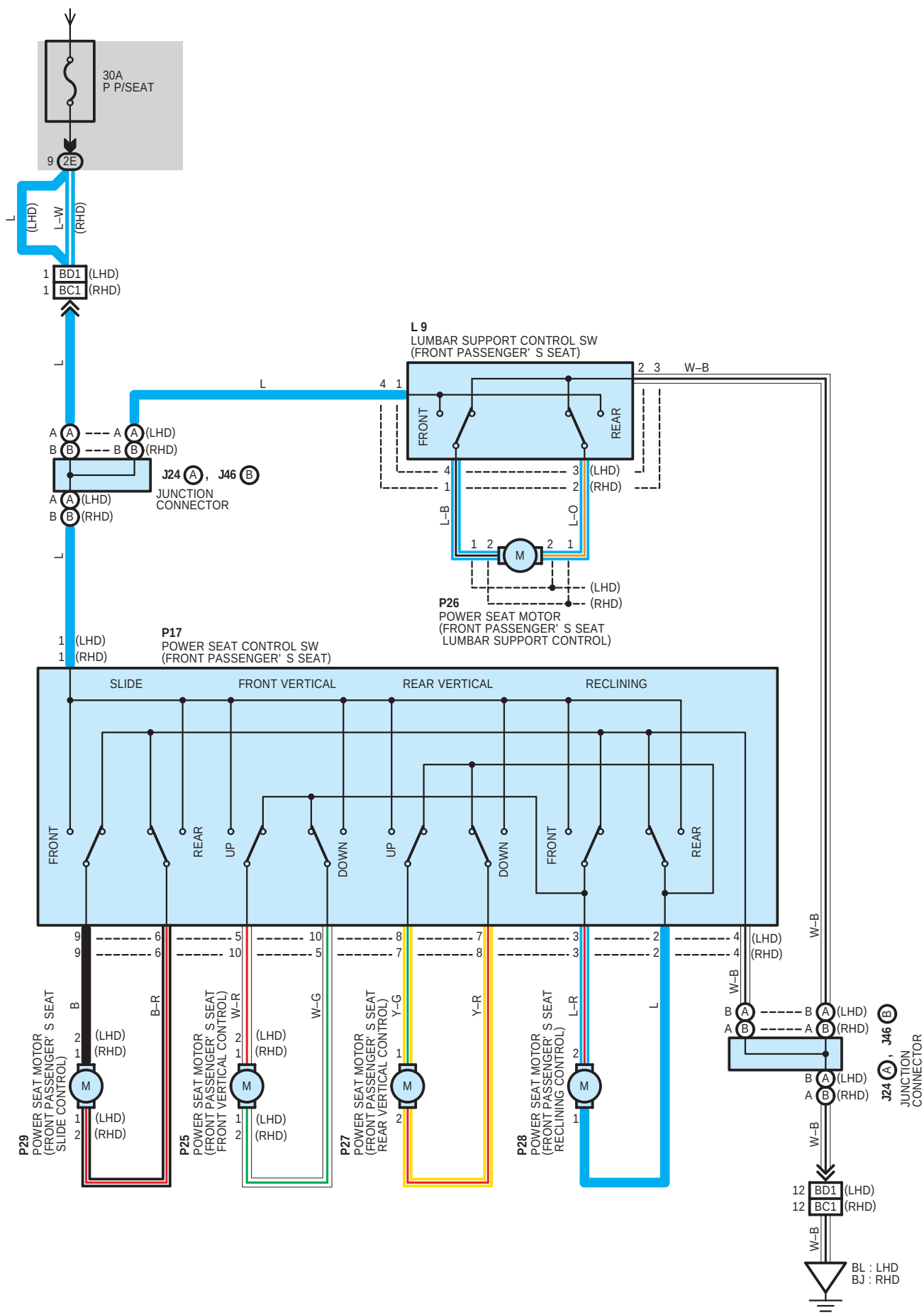
# POWER SOURCE





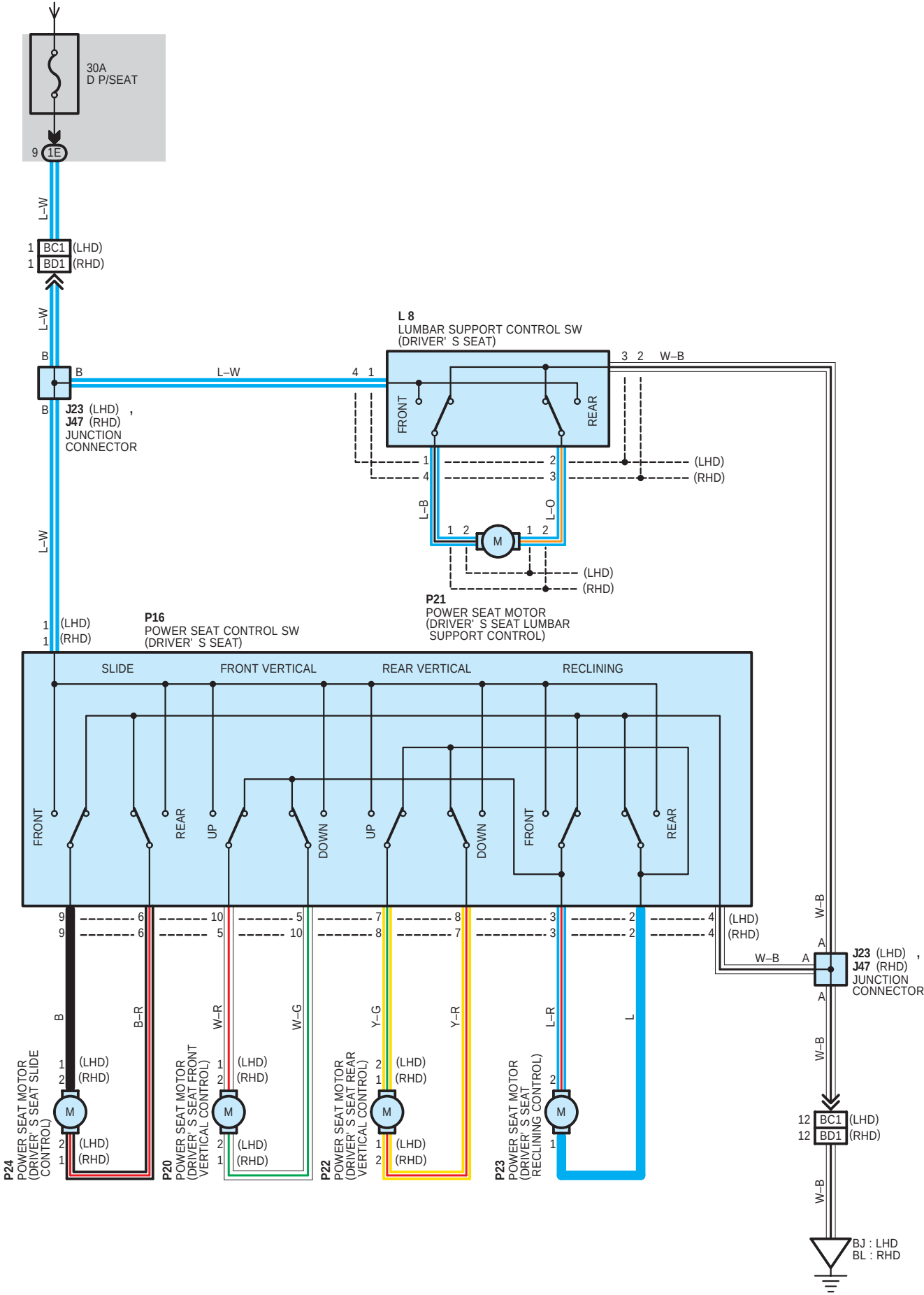
# POWER SEAT (FRONT PASSENGER'S SEAT)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



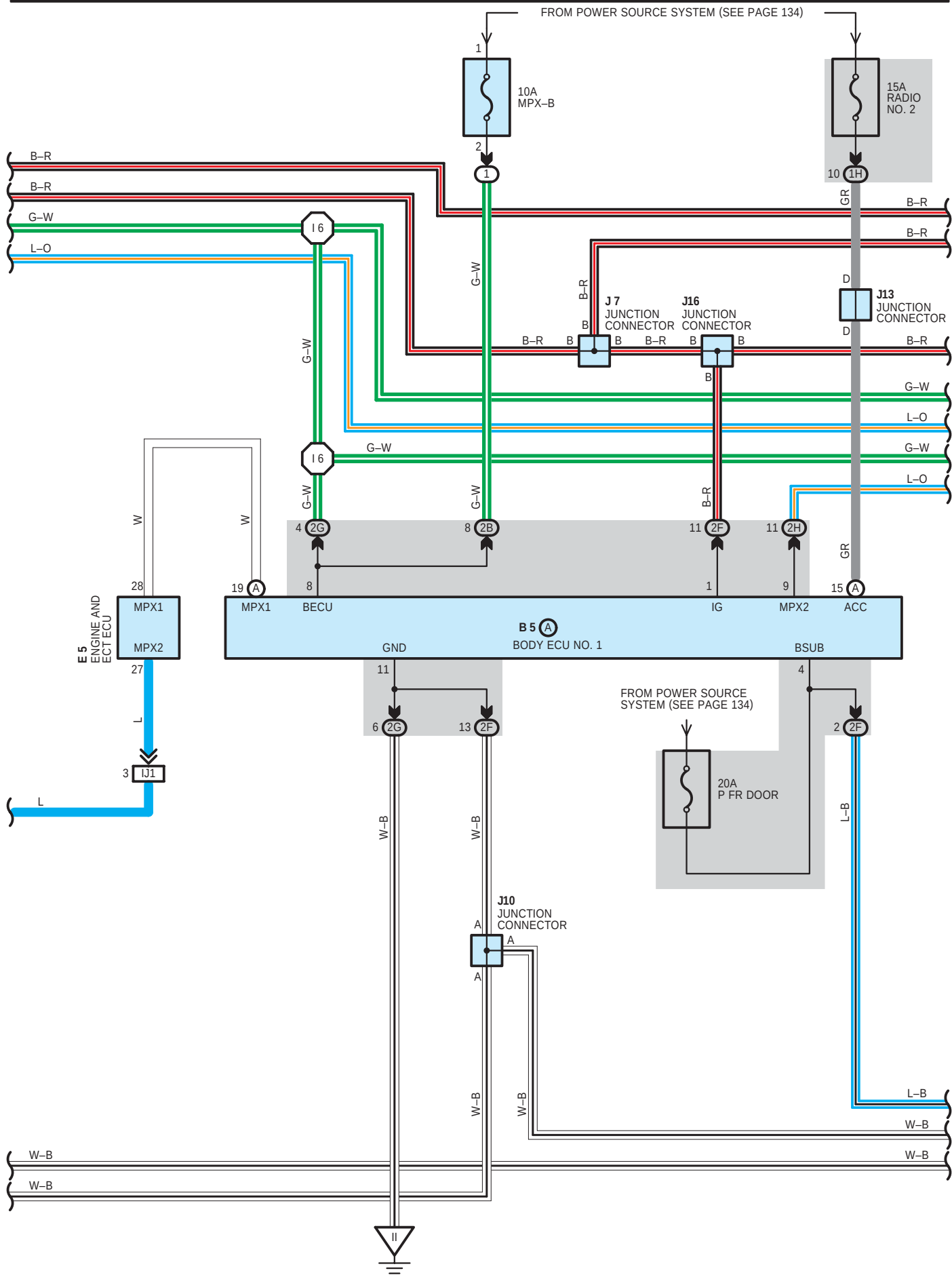
POWER SEAT (DRIVER’S SEAT w/o DRIVING POSITION MEMORY)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



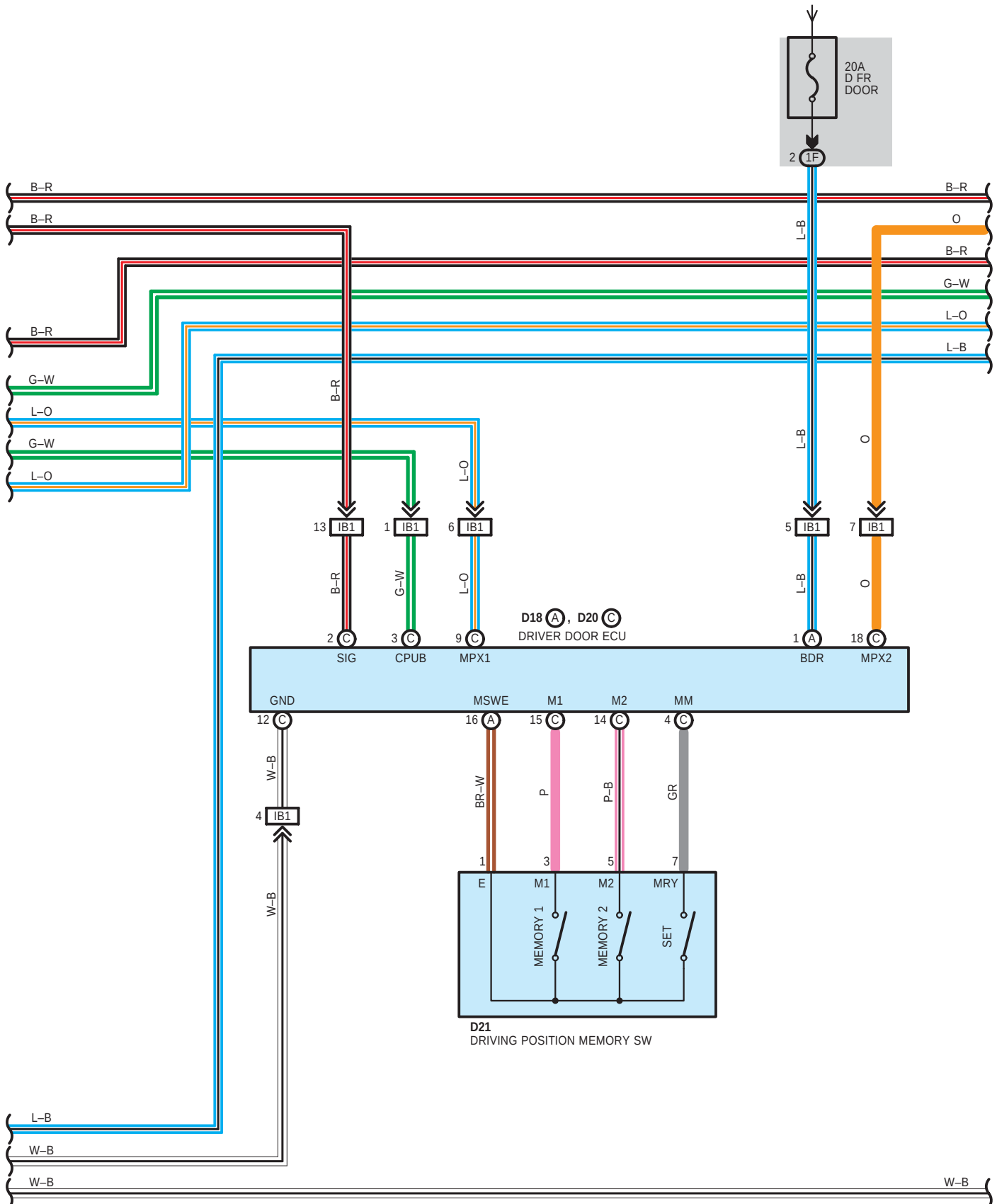
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



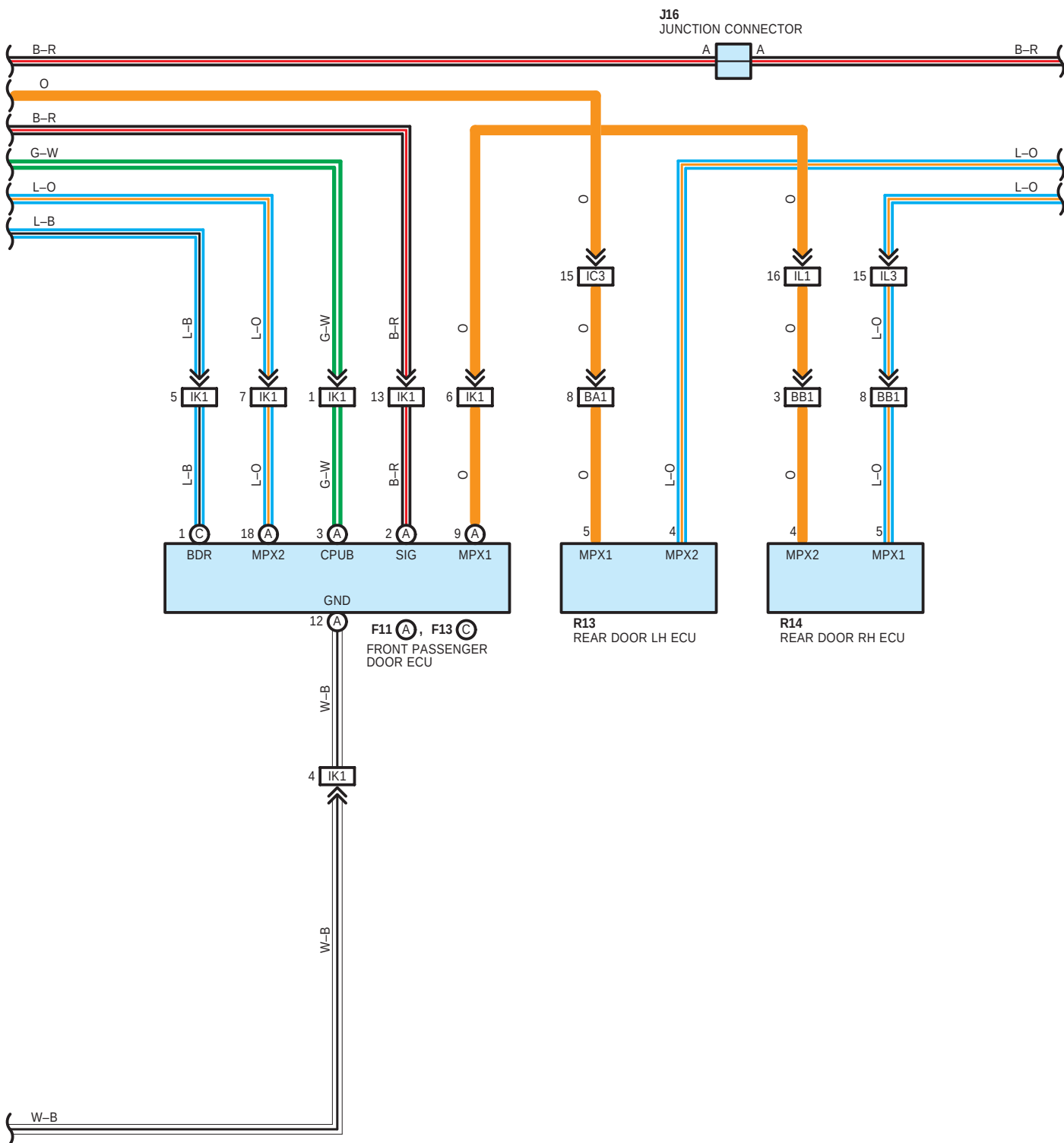


# POWER SEAT (DRIVER'S SEAT w/ DRIVING POSITION MEMORY) (LHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)

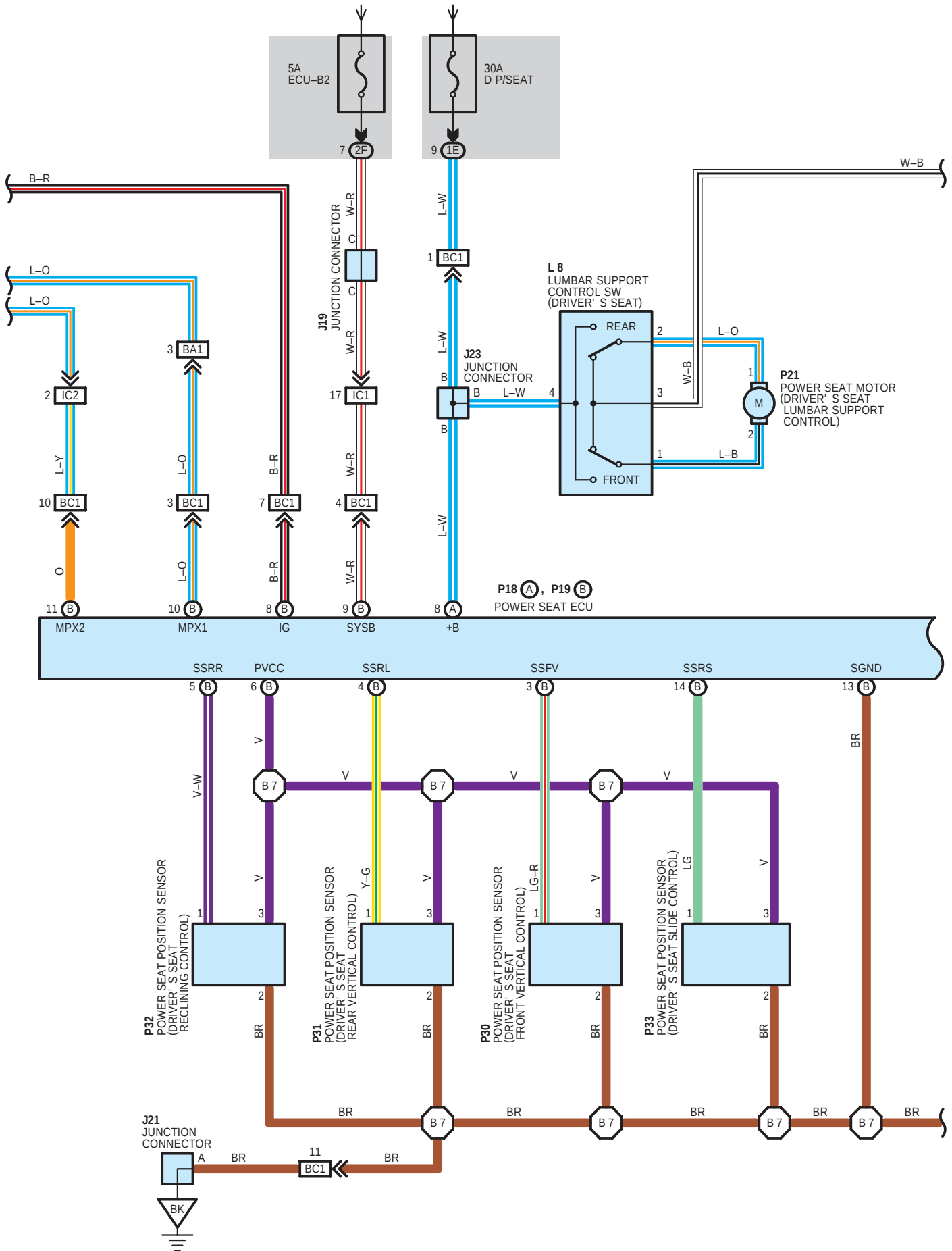


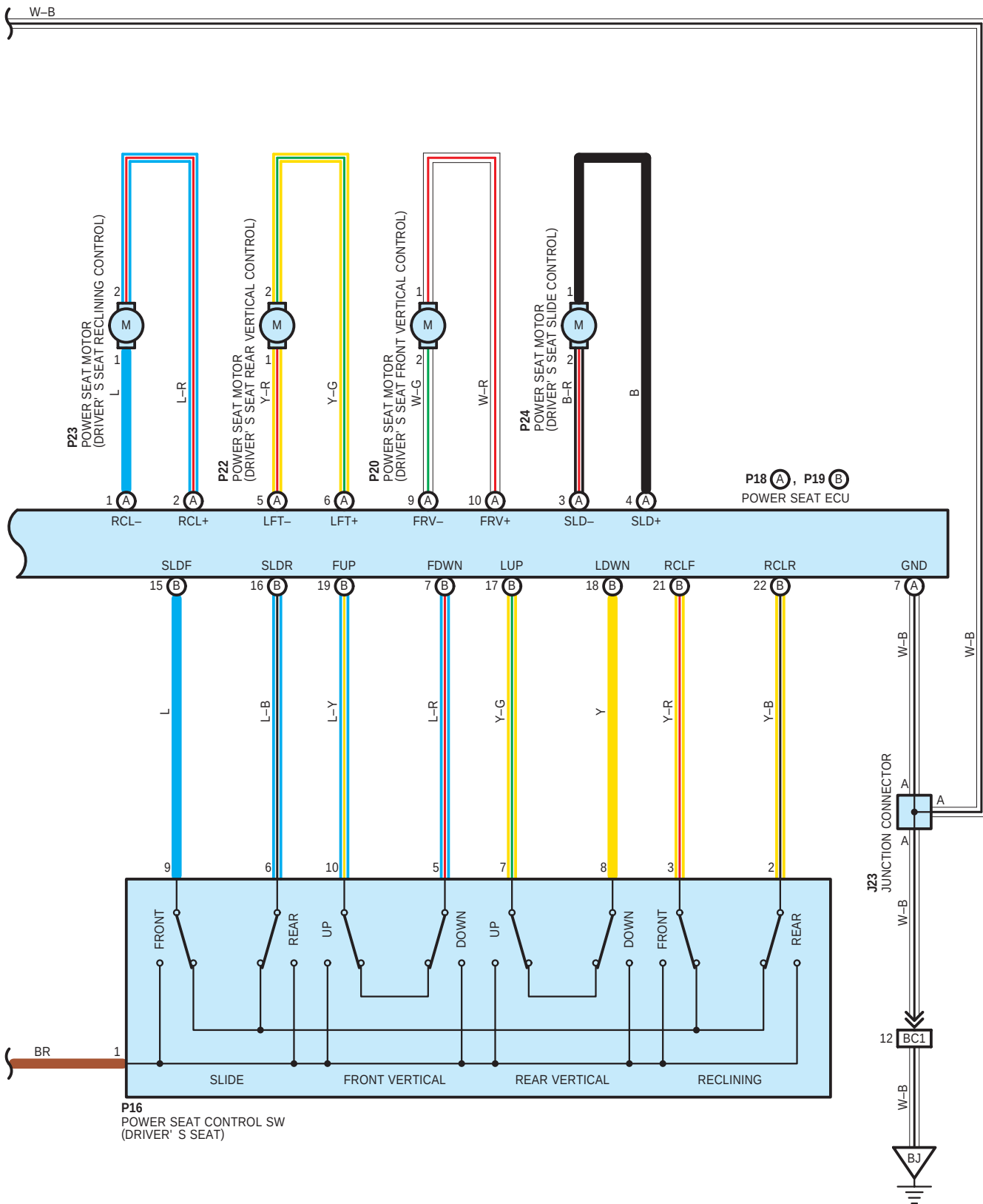




POWER SEAT (DRIVER'S SEAT w/ DRIVING POSITION MEMORY) (LHD)

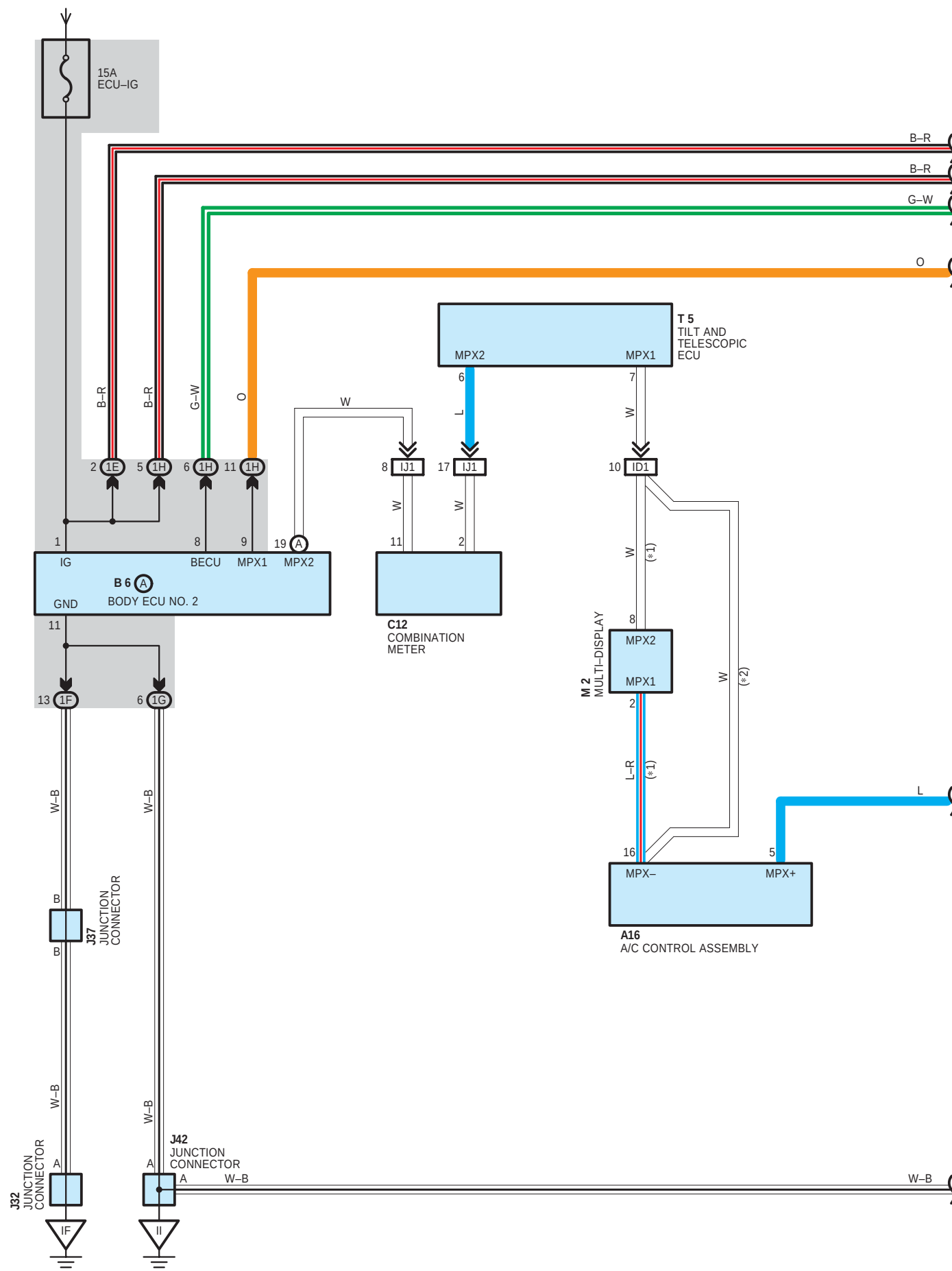
FROM POWER SOURCE SYSTEM (SEE PAGE 134)

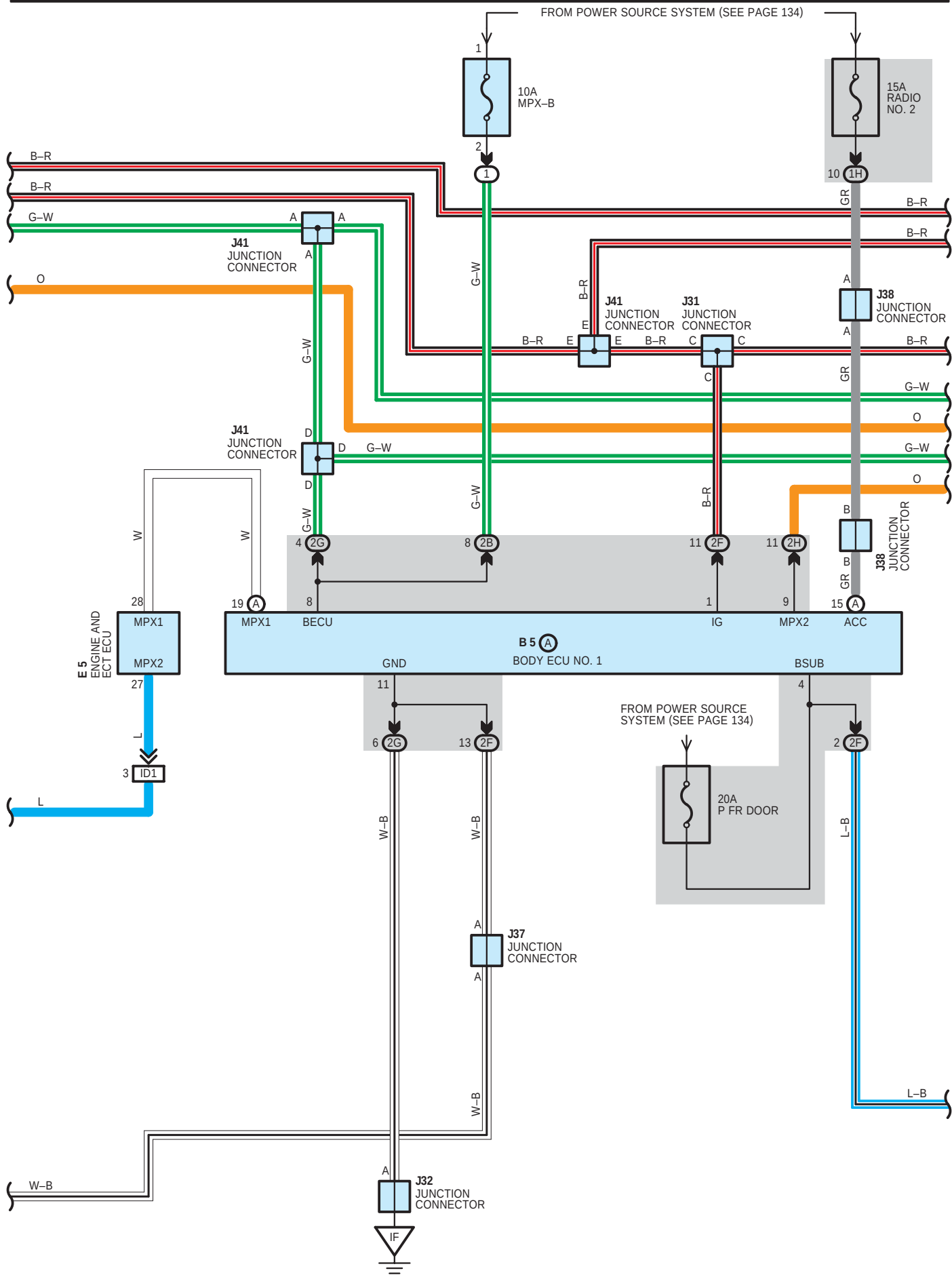




# POWER SEAT (DRIVER'S SEAT w/ DRIVING POSITION MEMORY) (RHD)

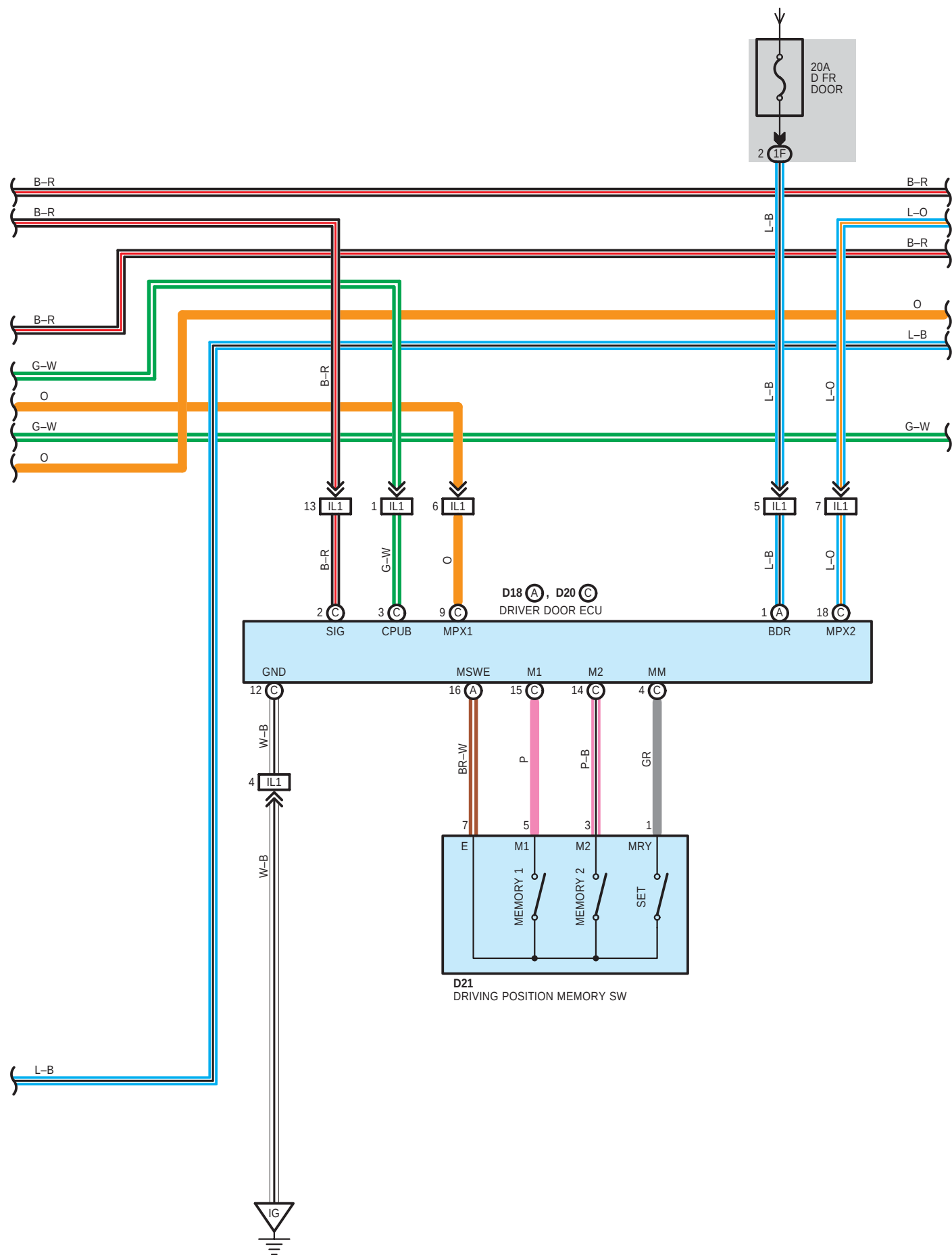
FROM POWER SOURCE SYSTEM (SEE PAGE 134)

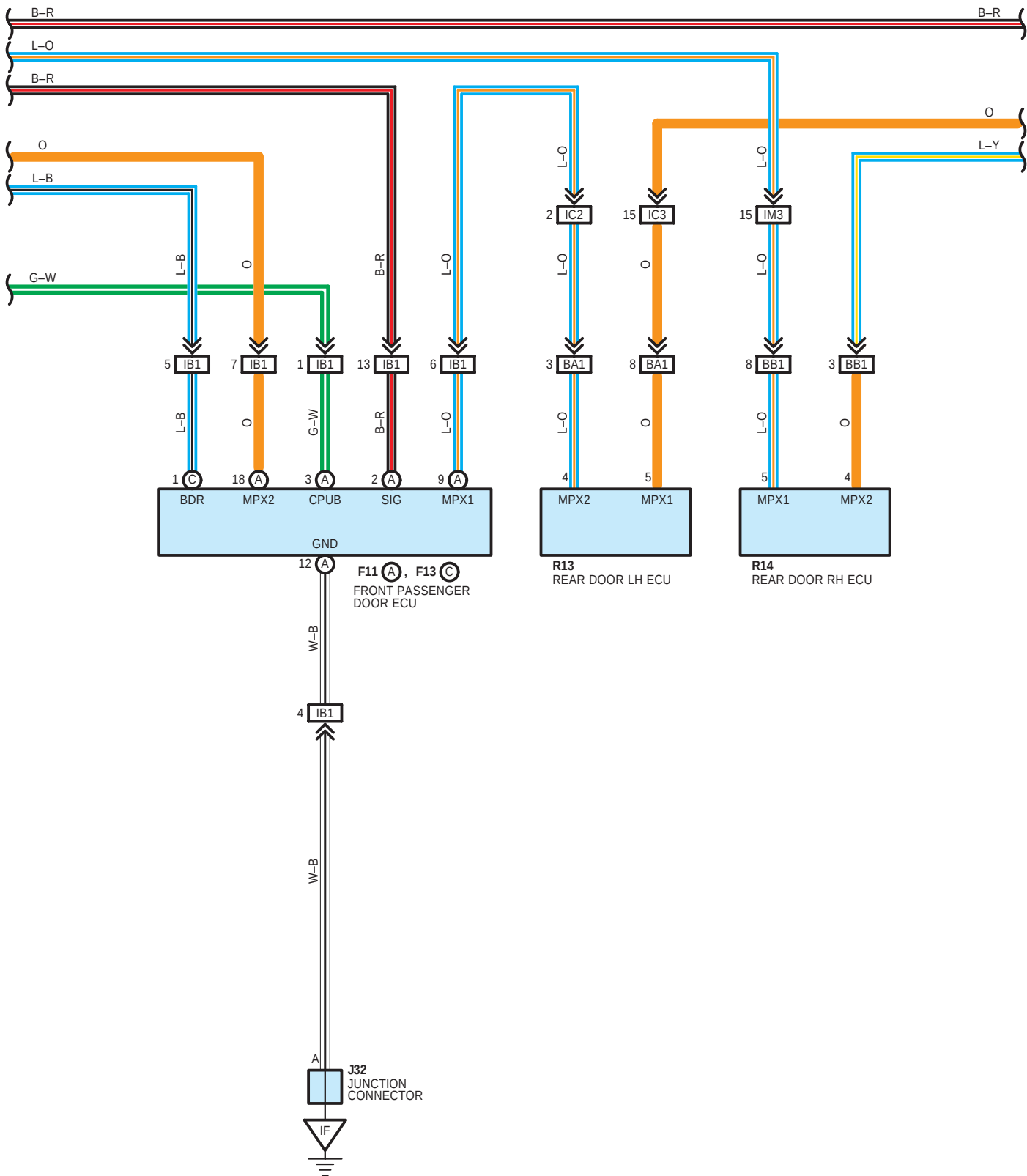




POWER SEAT (DRIVER'S SEAT w/ DRIVING POSITION MEMORY) (RHD)

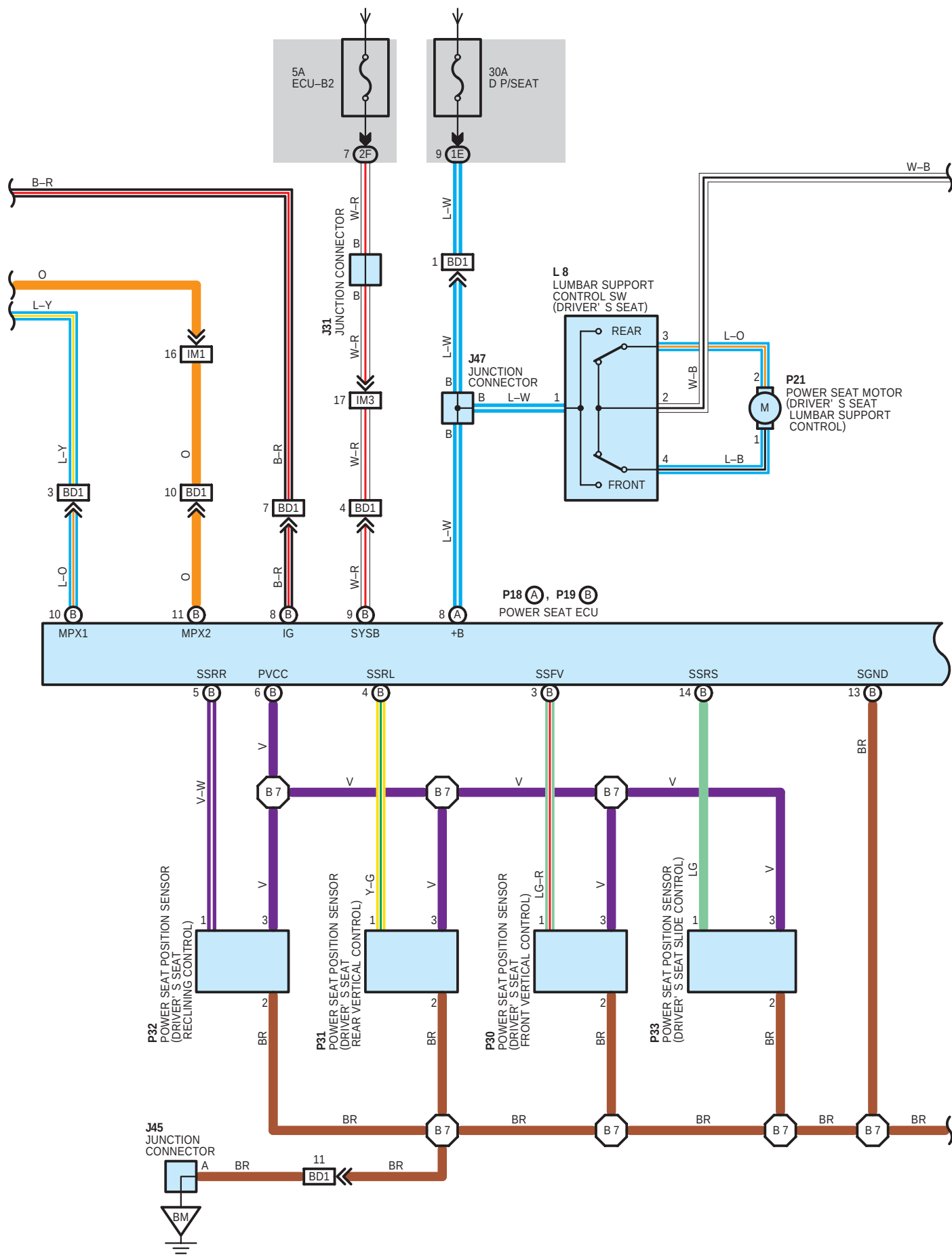
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



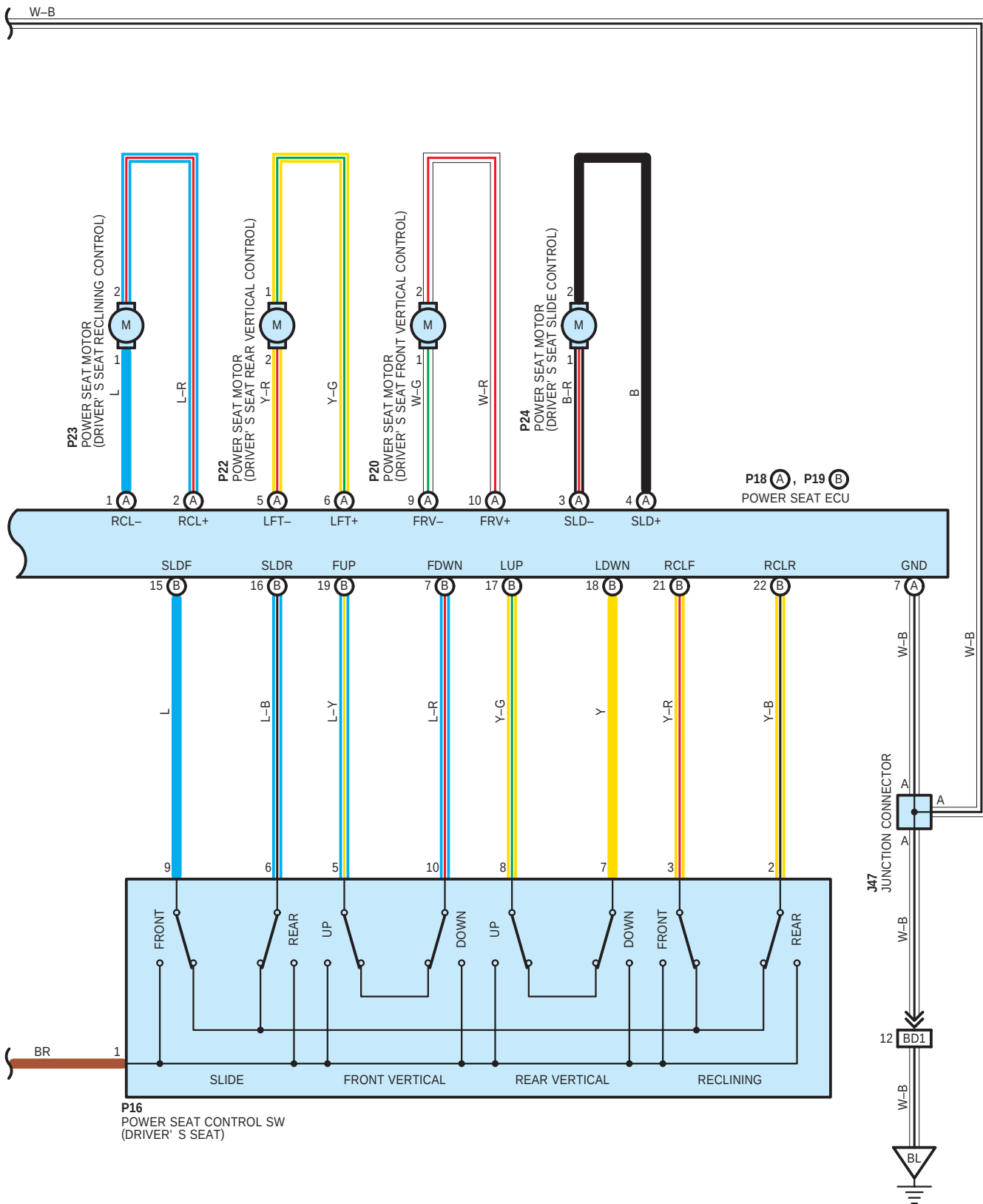


# POWER SEAT (DRIVER'S SEAT w/ DRIVING POSITION MEMORY) (RHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



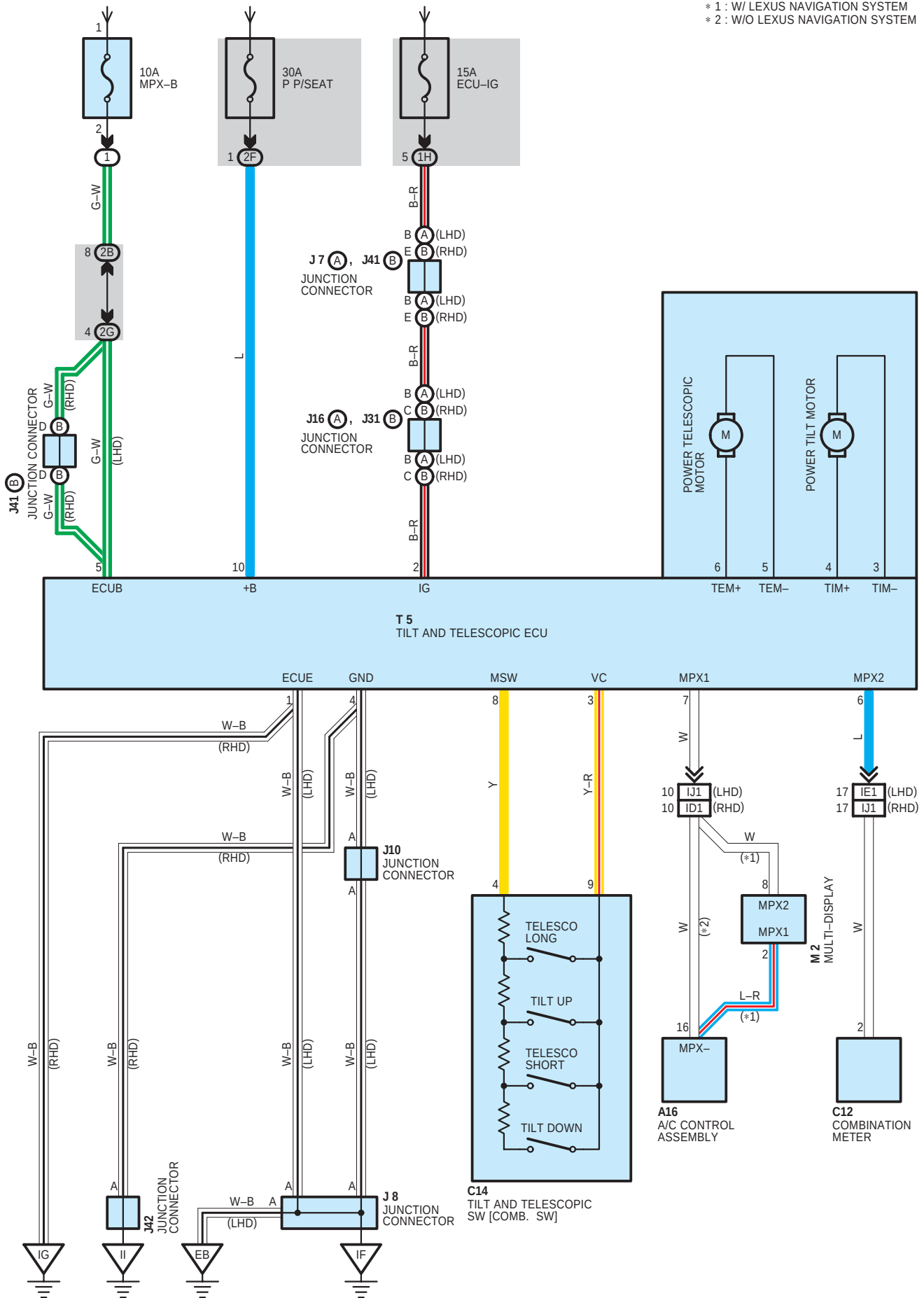


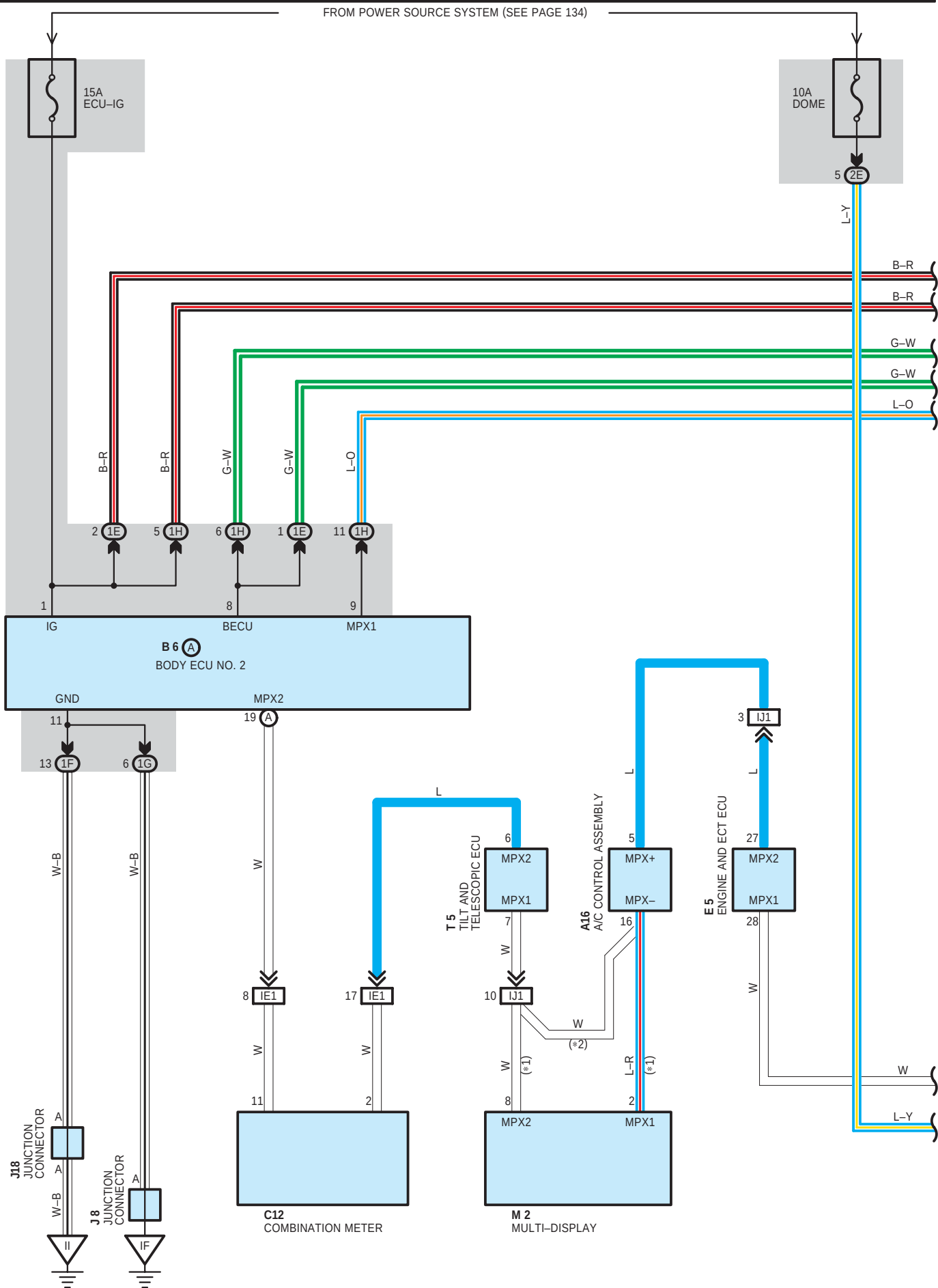


## POWER TILT AND POWER TELESCOPIC

FROM POWER SOURCE SYSTEM (SEE PAGE 134)

\* 1 : W/ LEXUS NAVIGATION SYSTEM  
\* 2 : W/O LEXUS NAVIGATION SYSTEM



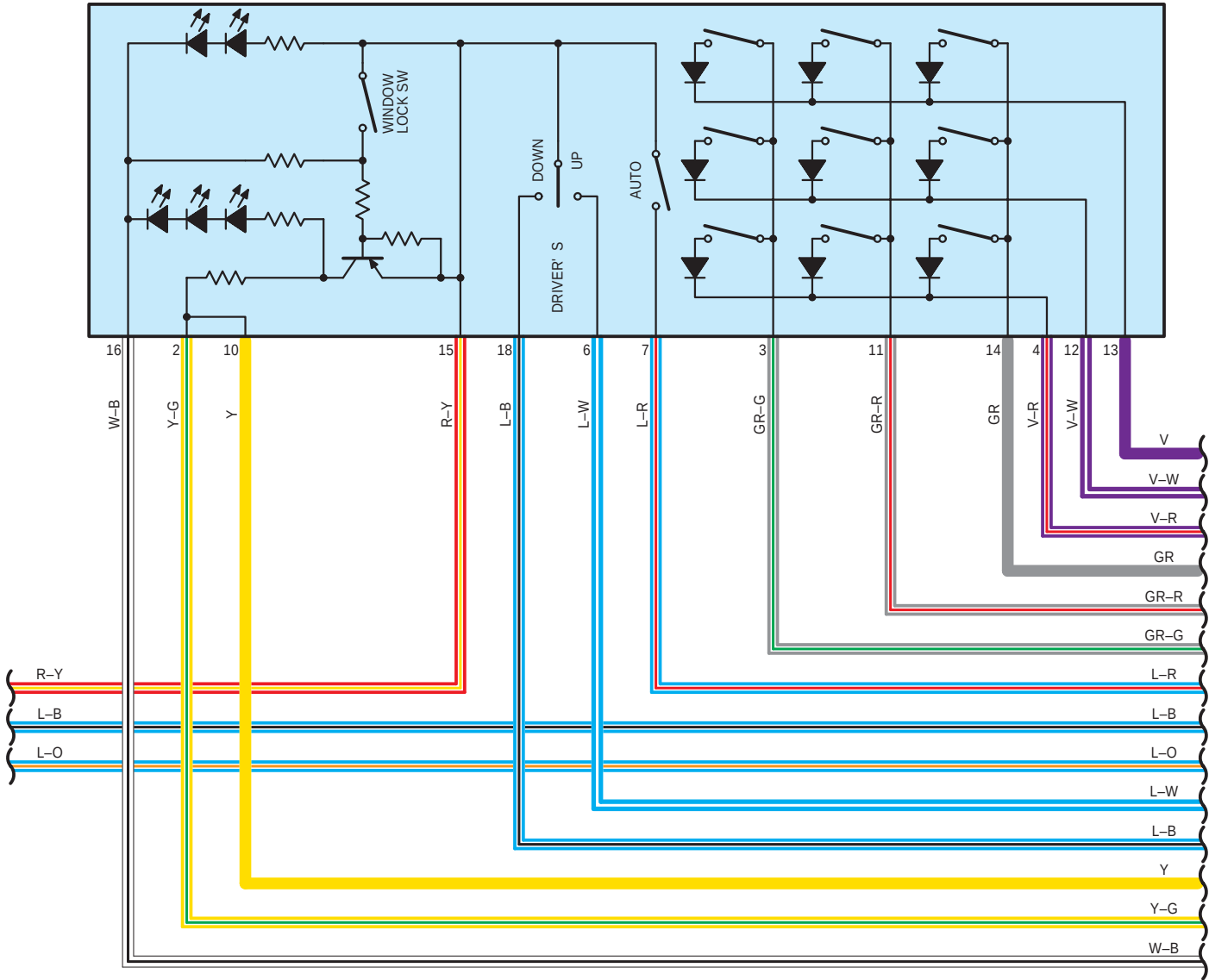


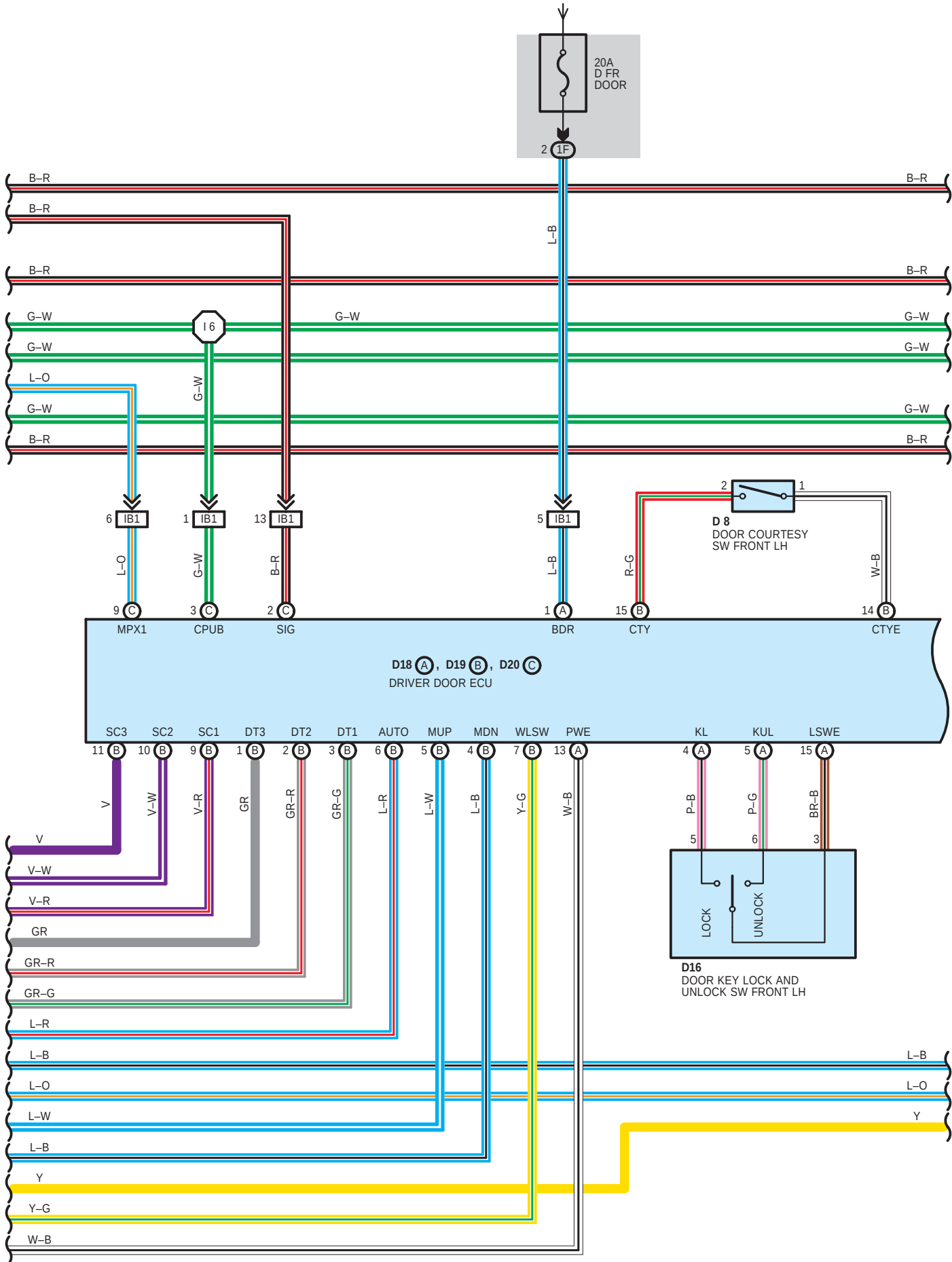


POWER WINDOW (LHD)

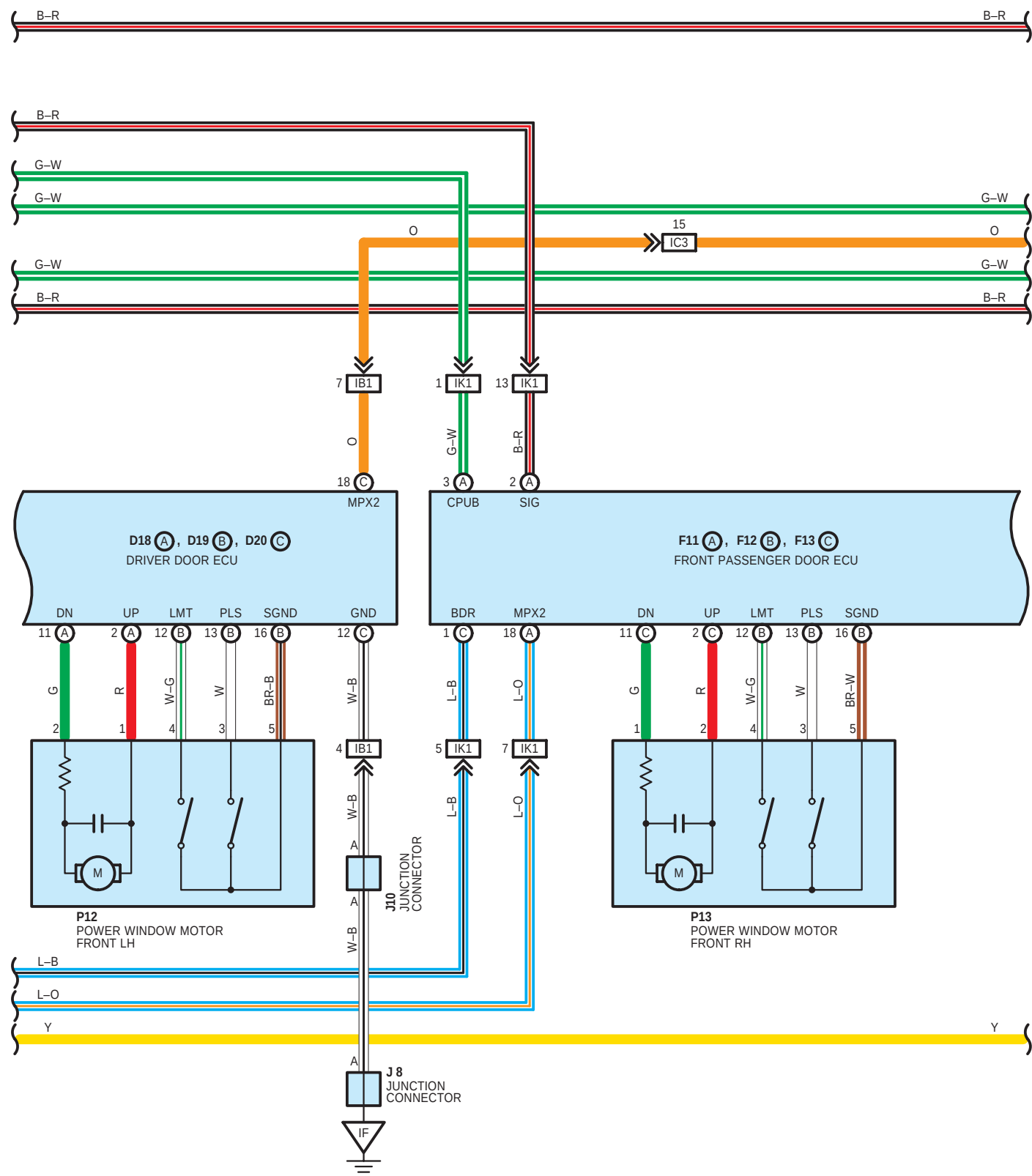


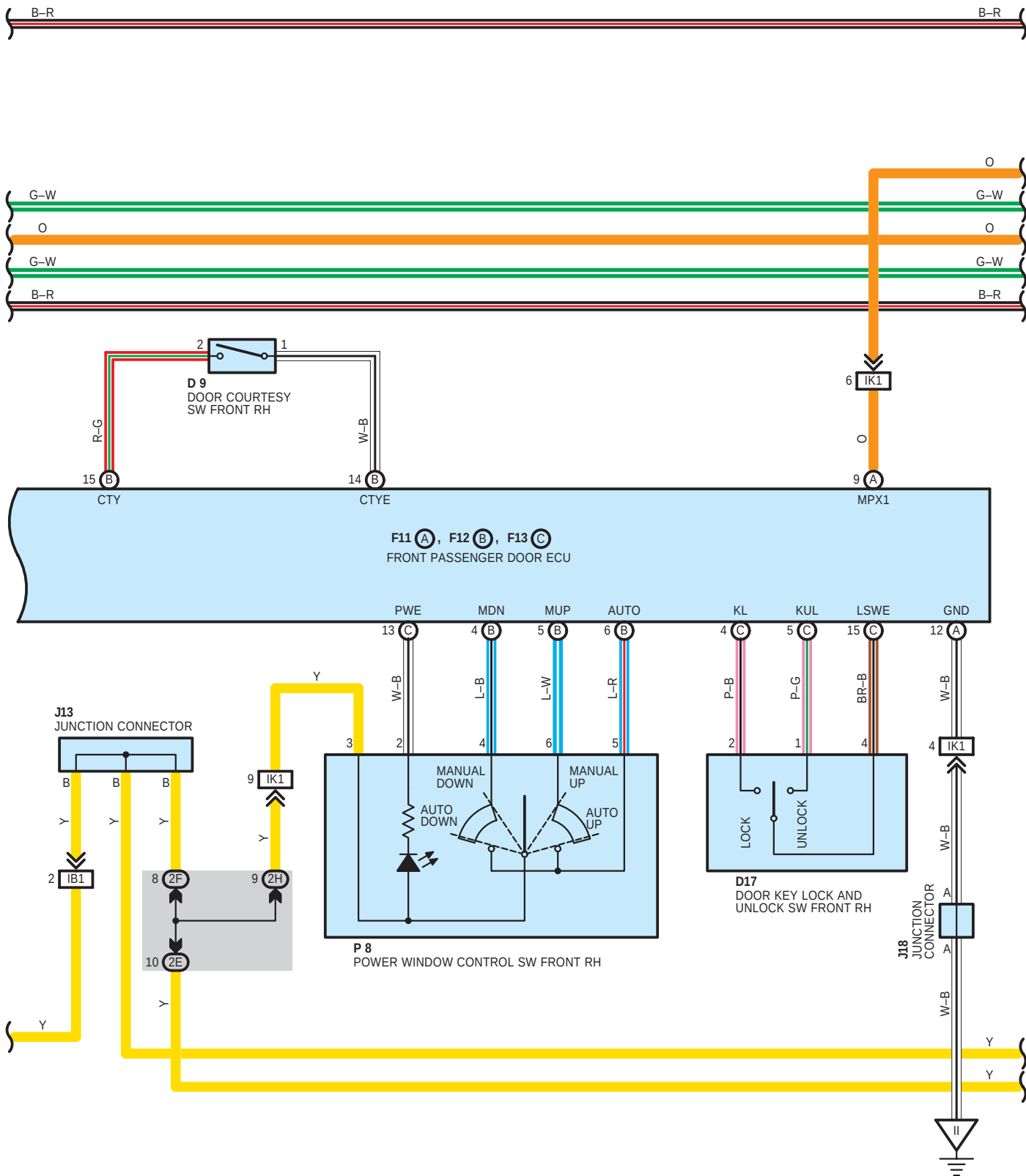
P11  
POWER WINDOW MASTER SW





POWER WINDOW (LHD)

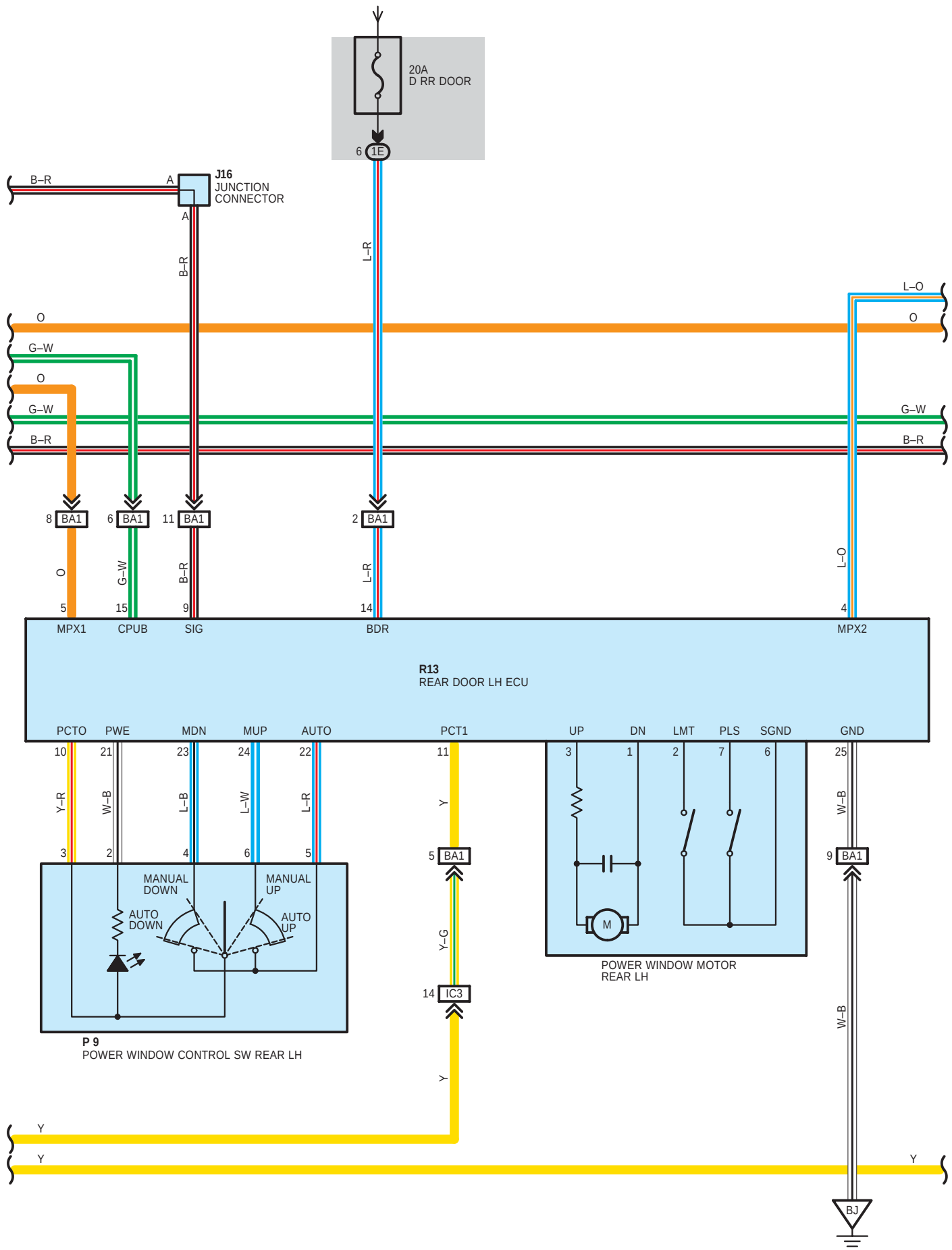




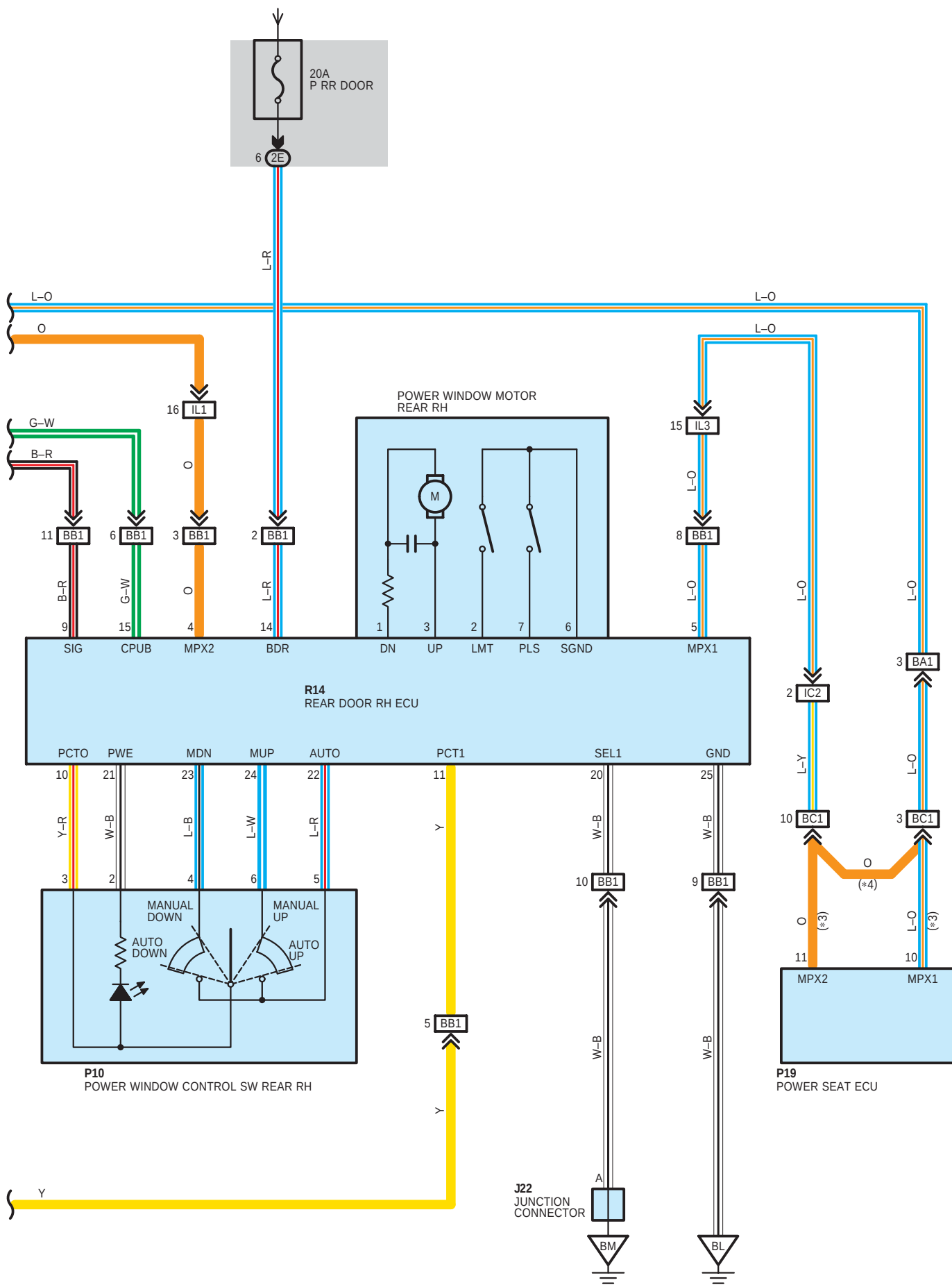


# POWER WINDOW (LHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)

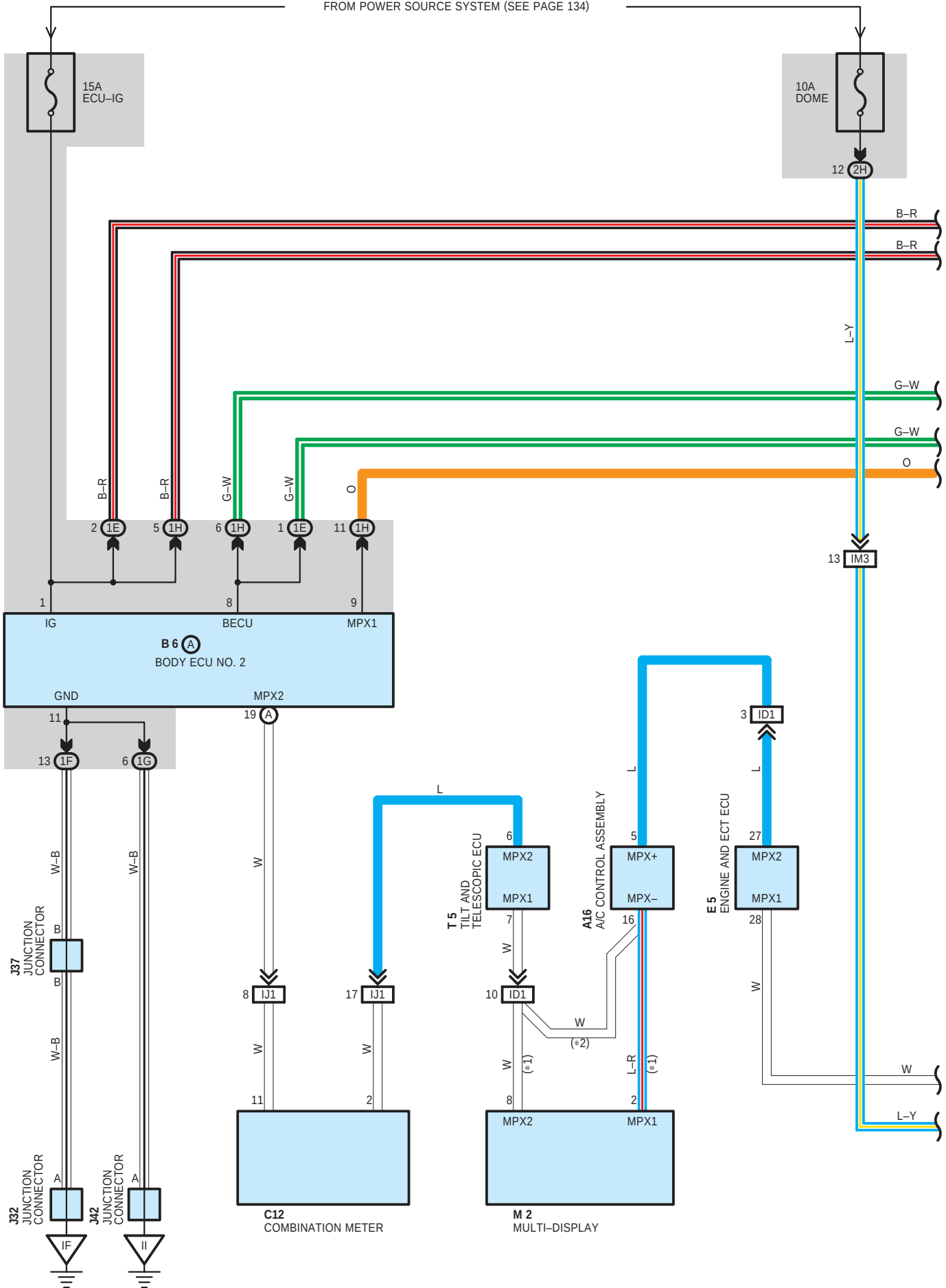


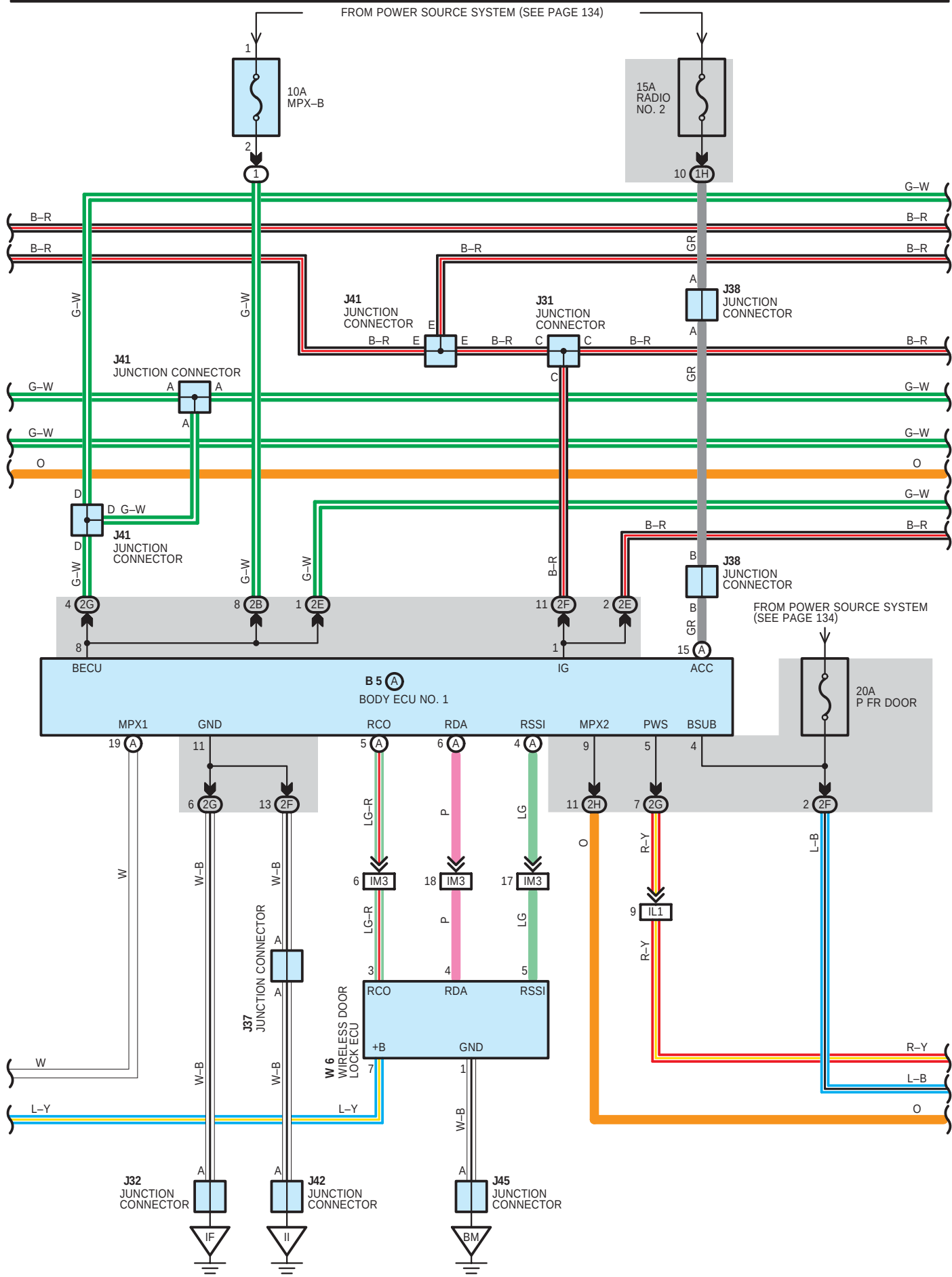
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



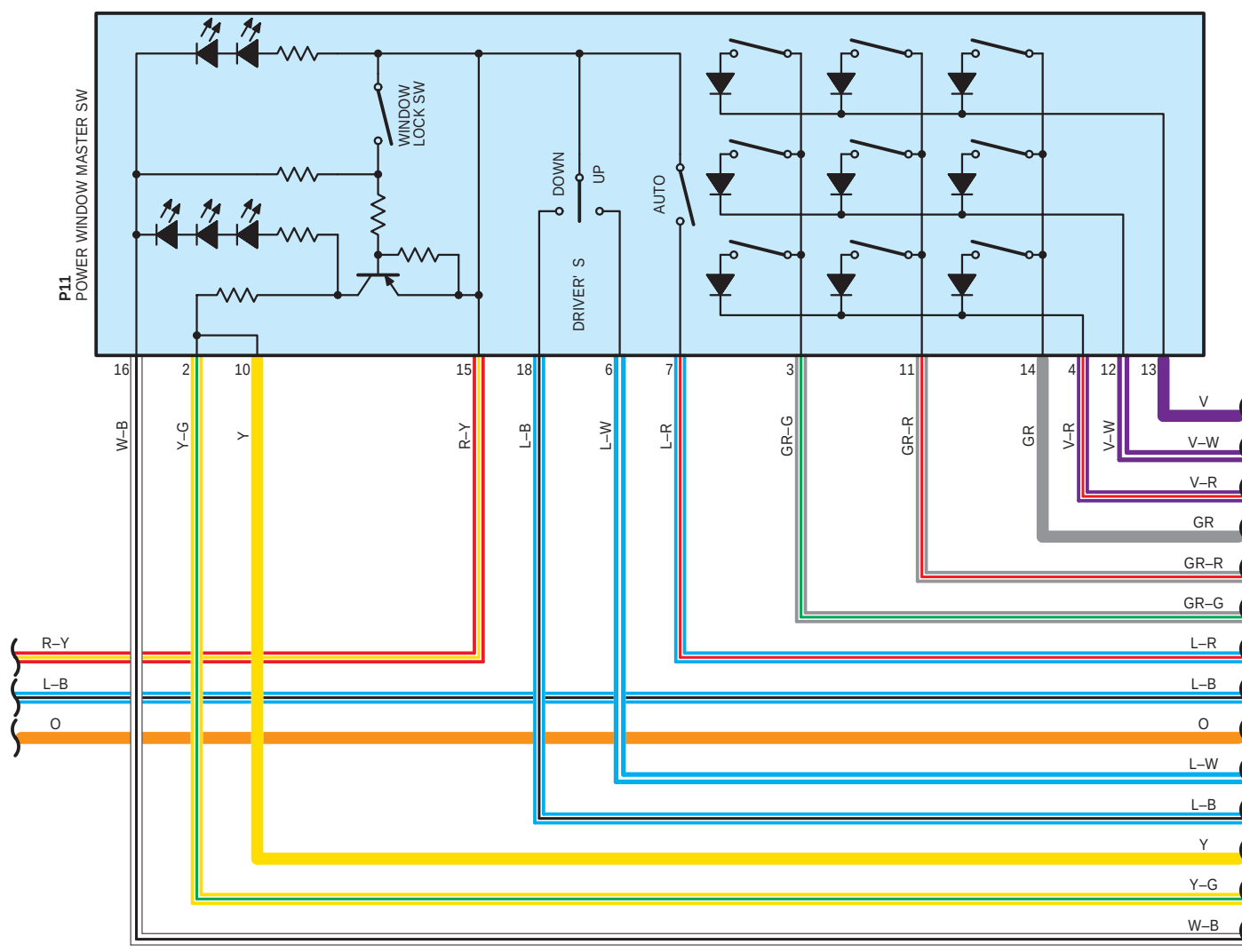
# POWER WINDOW (RHD)

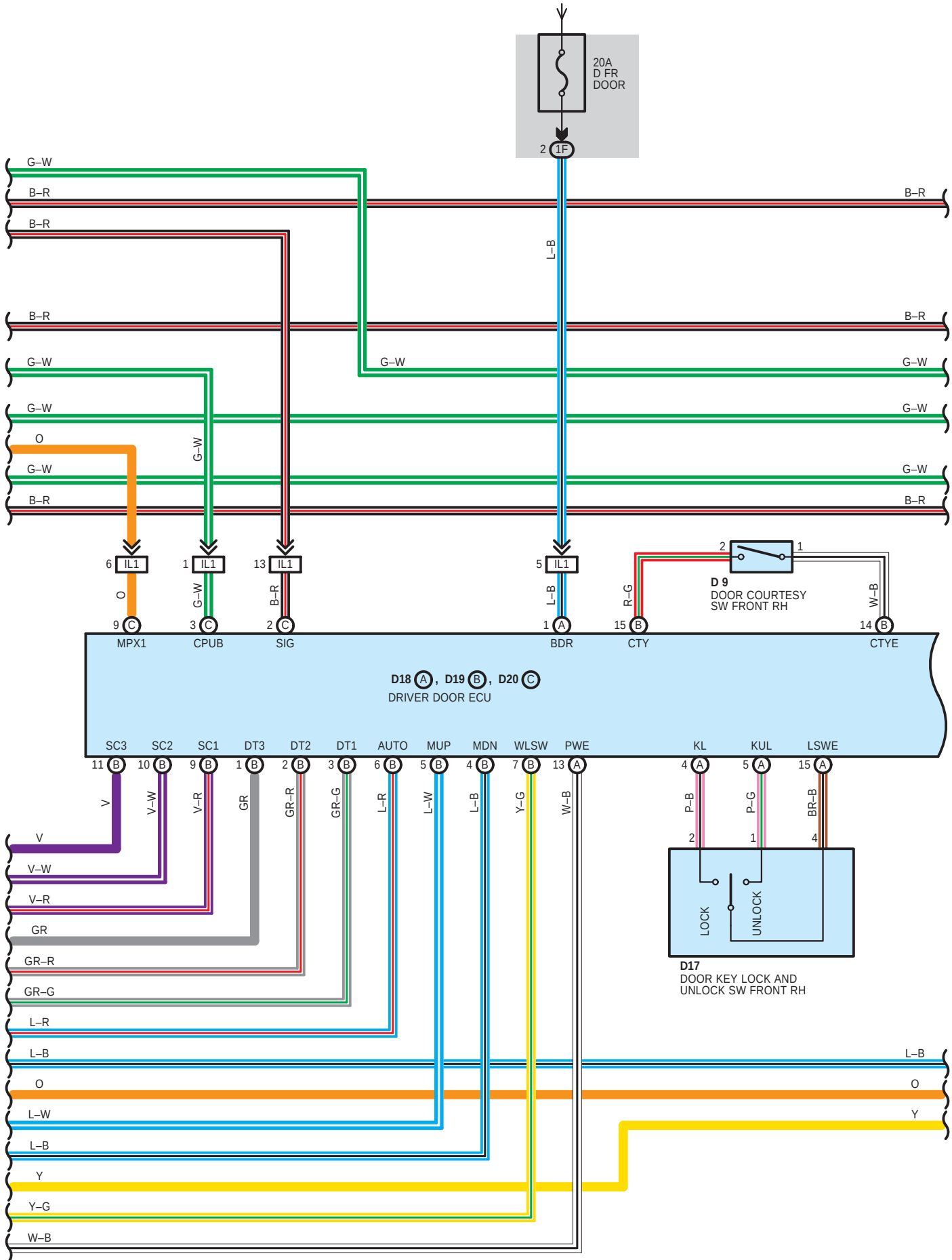
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



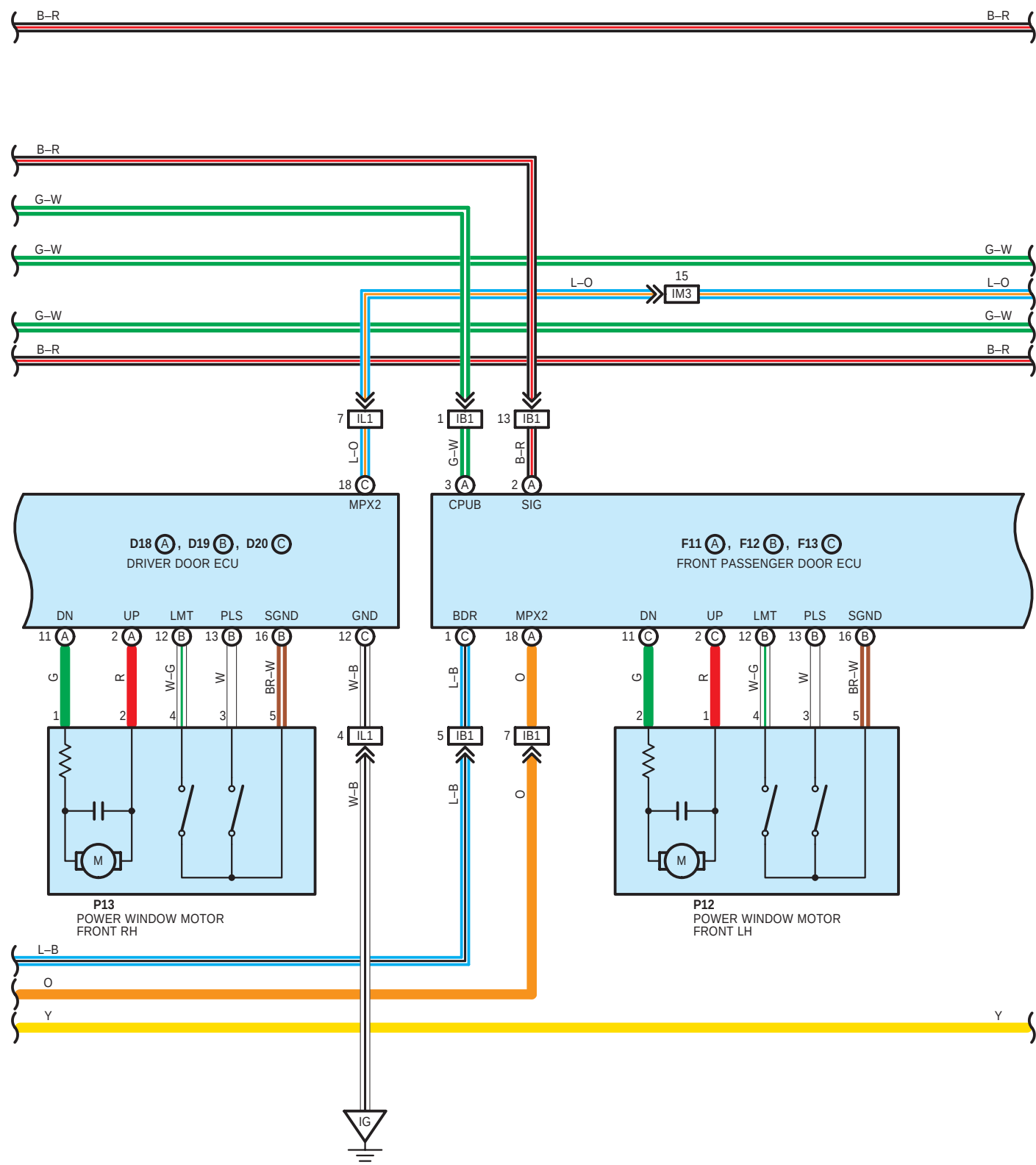


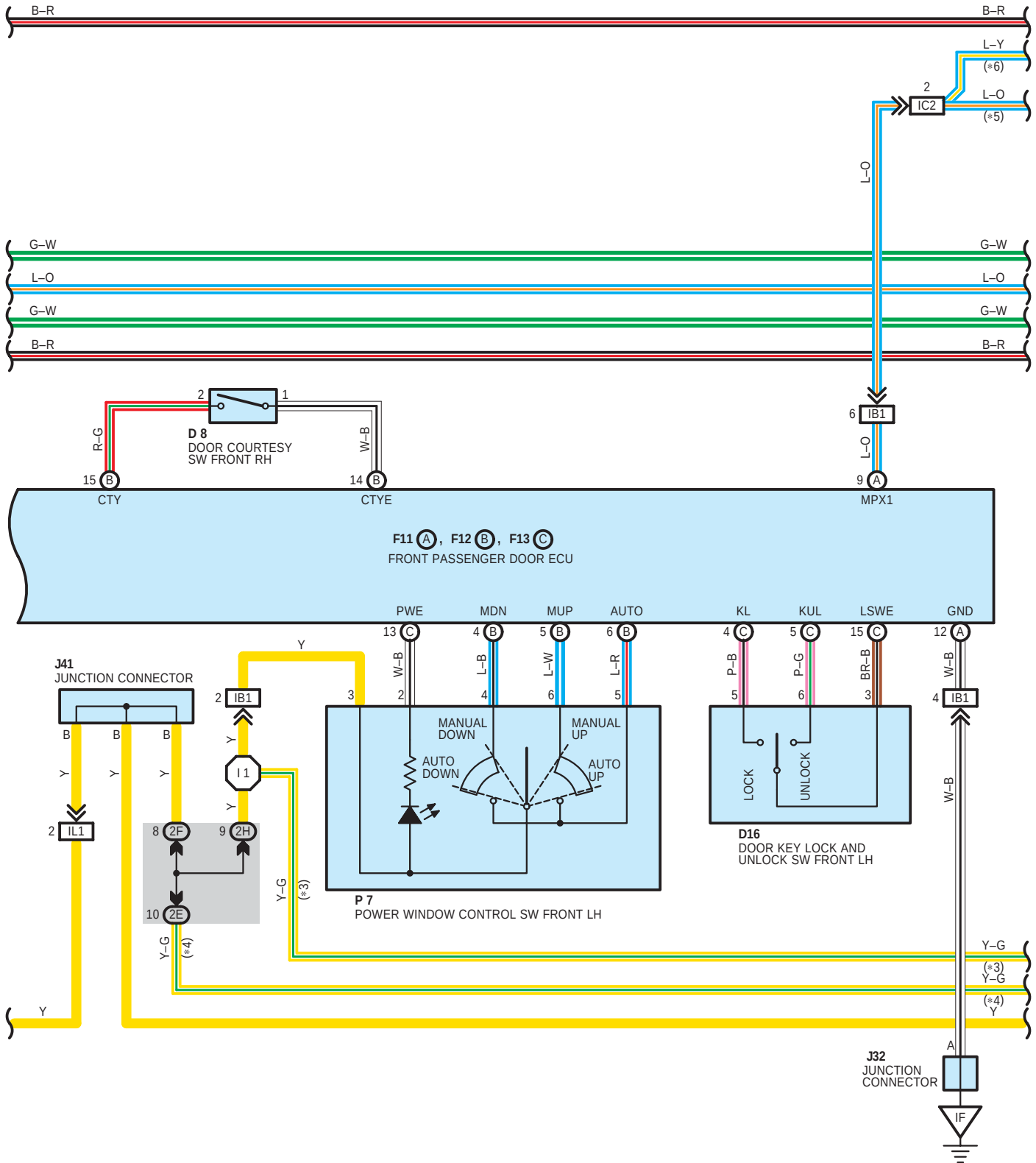
# POWER WINDOW (RHD)





POWER WINDOW (RHD)

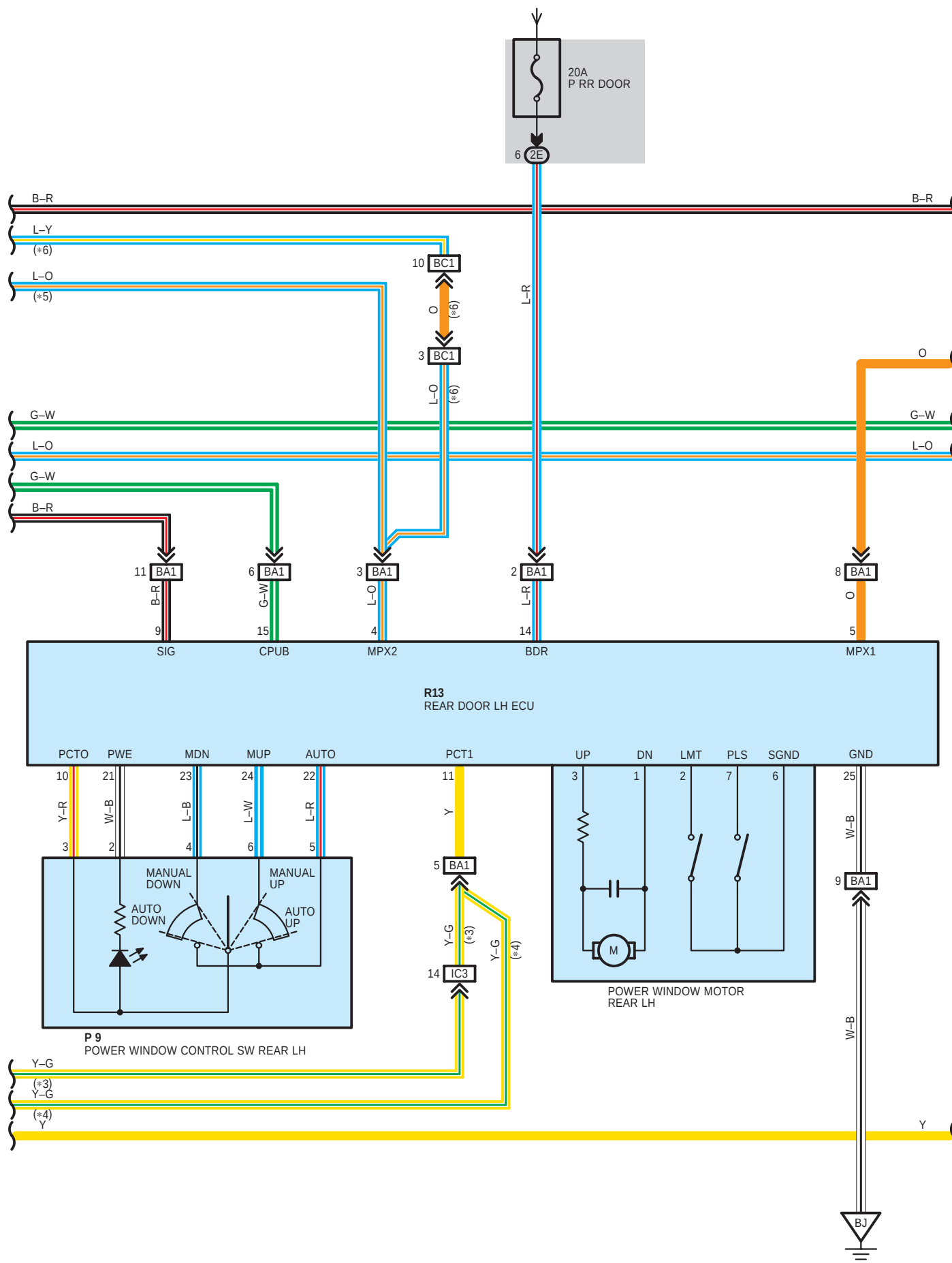




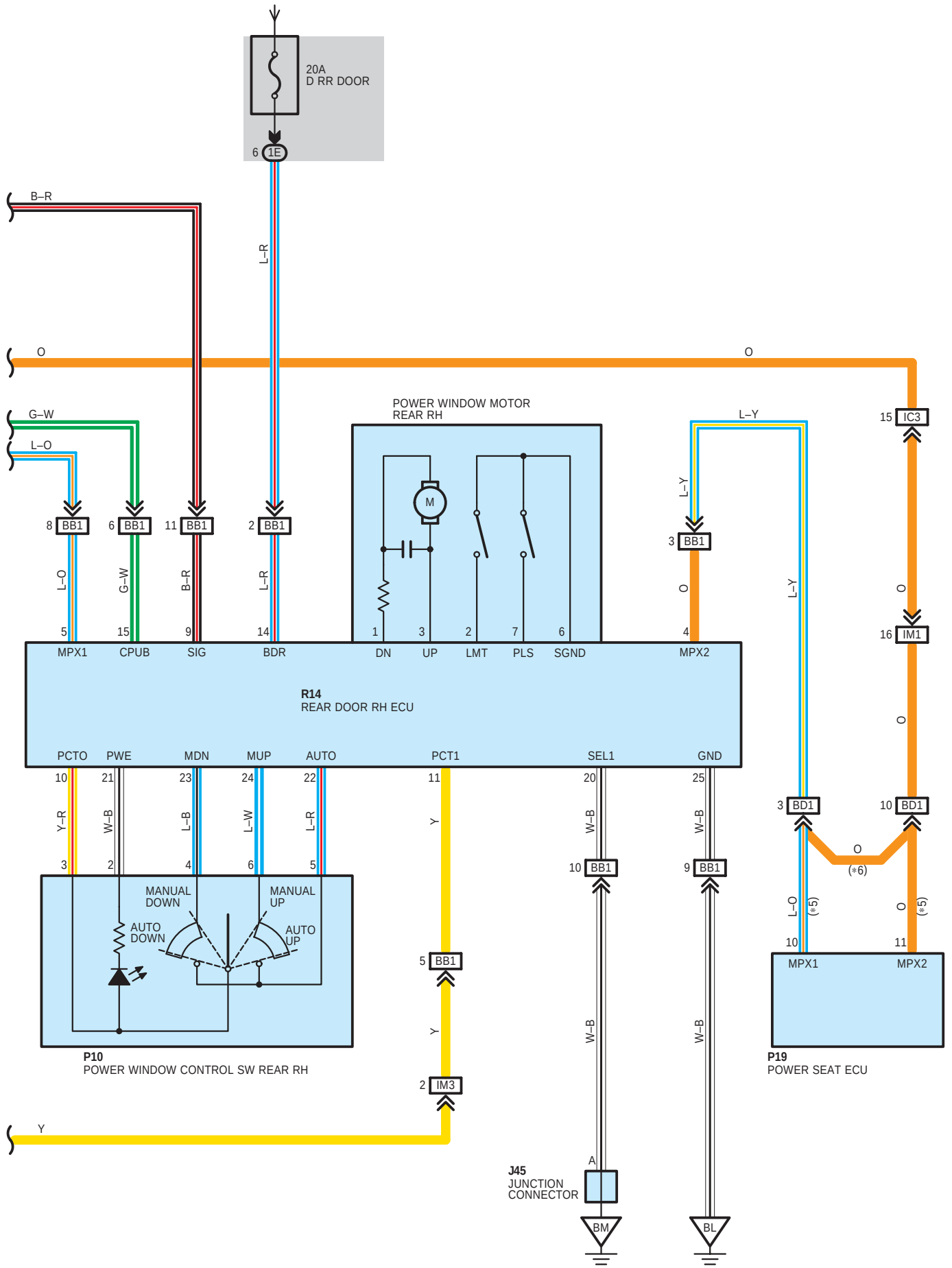


## POWER WINDOW (RHD)

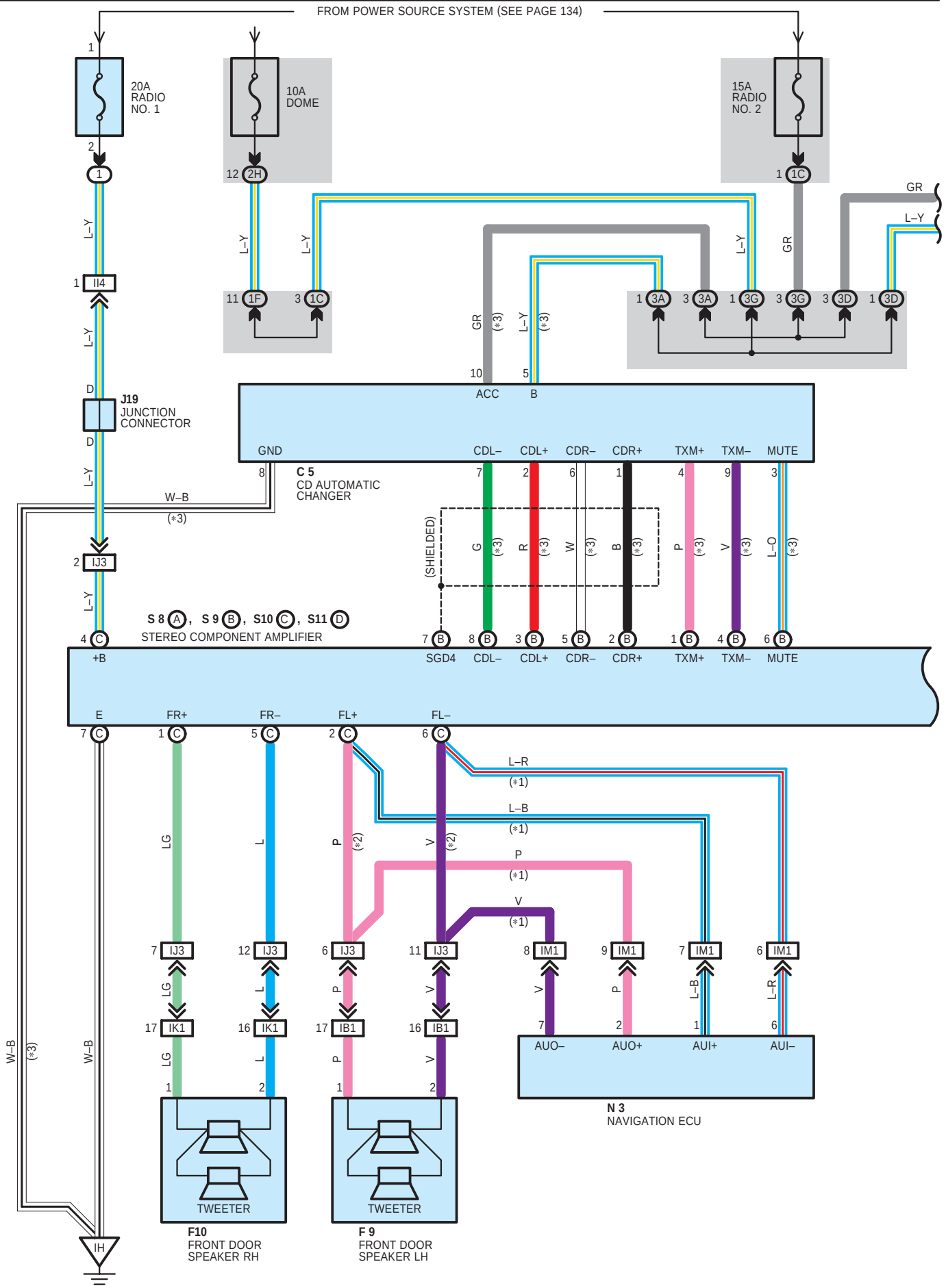
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



FROM POWER SOURCE SYSTEM (SEE PAGE 134)

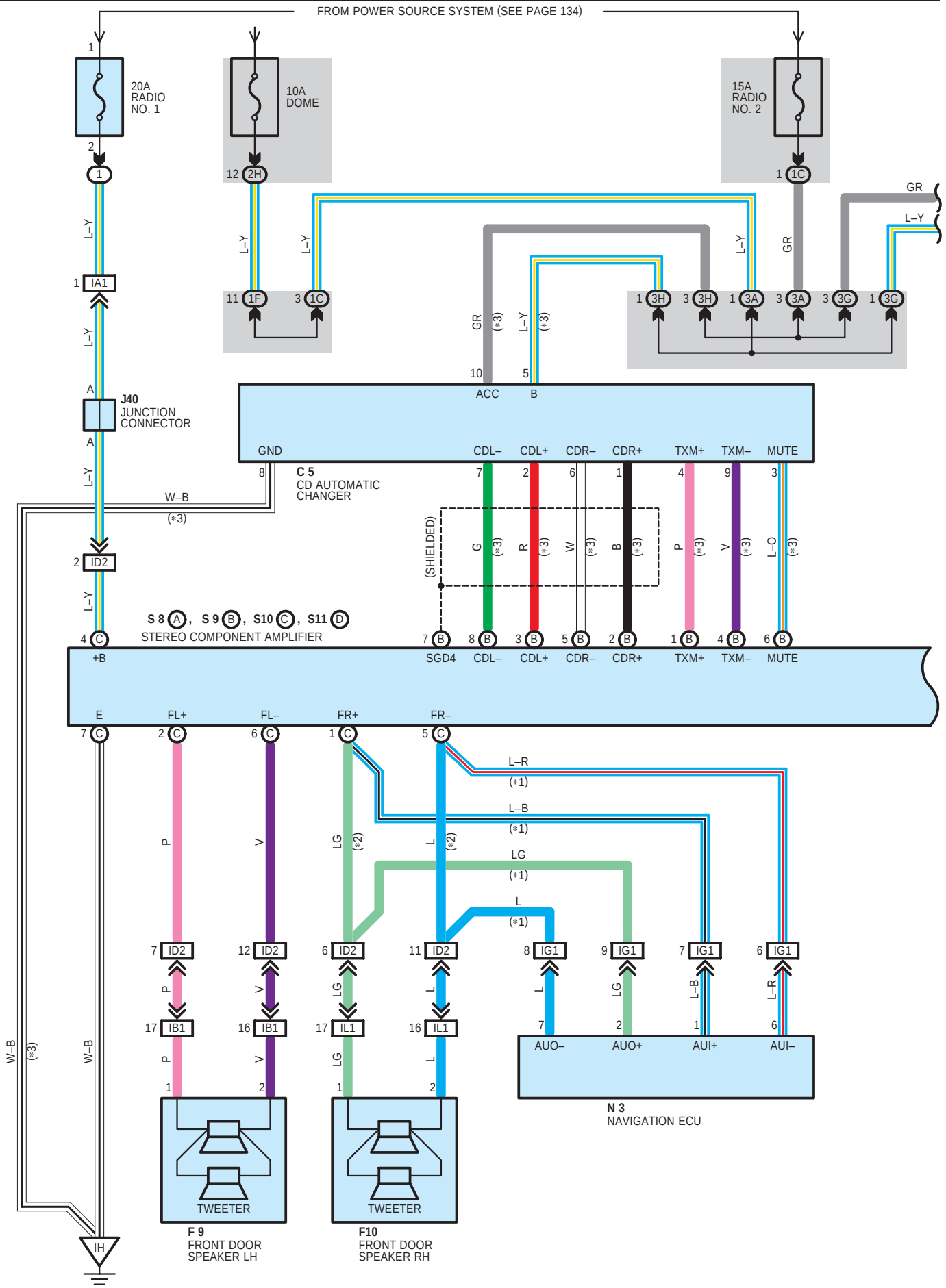


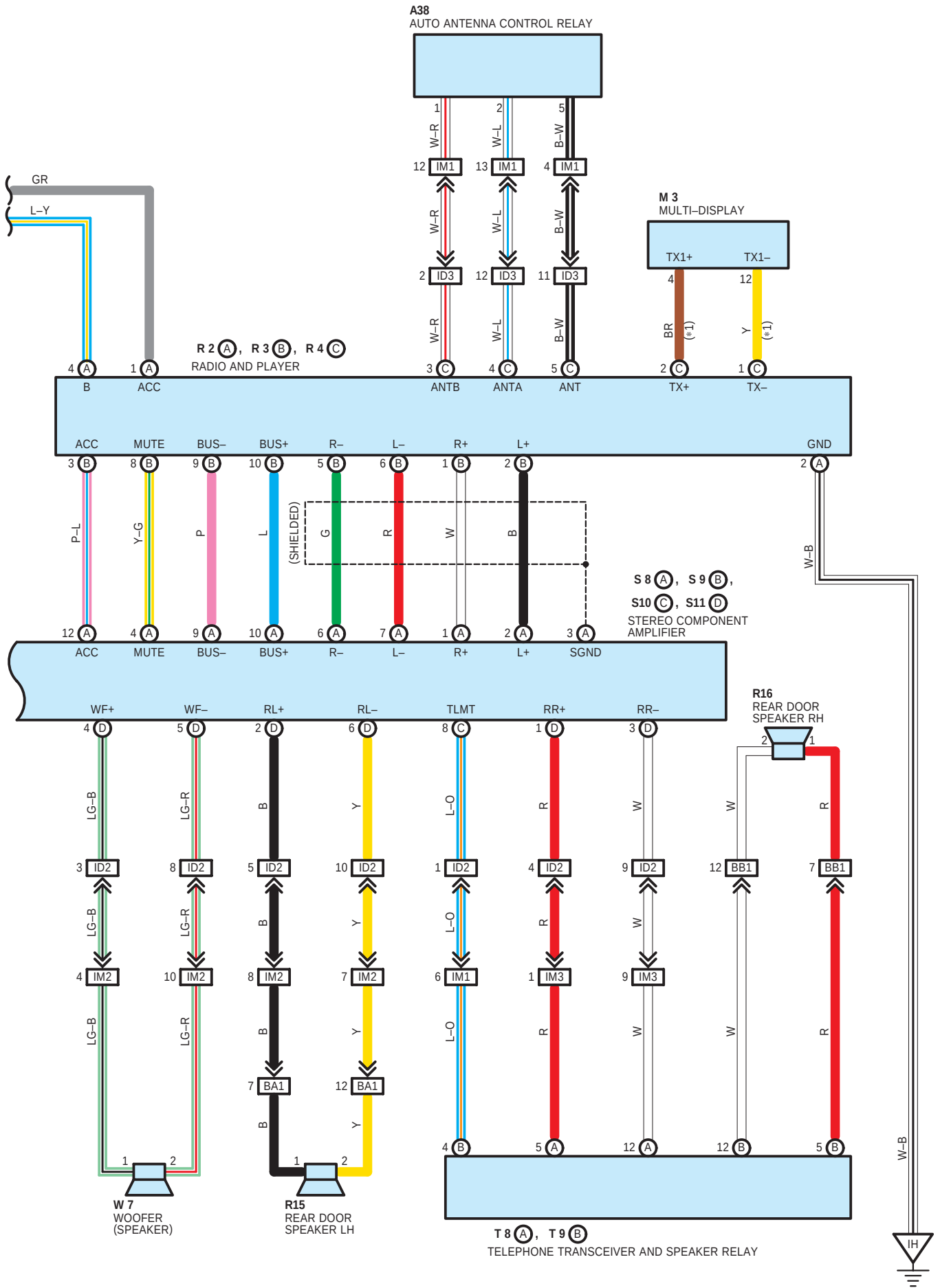
# RADIO AND PLAYER (LHD)





# RADIO AND PLAYER (RHD)

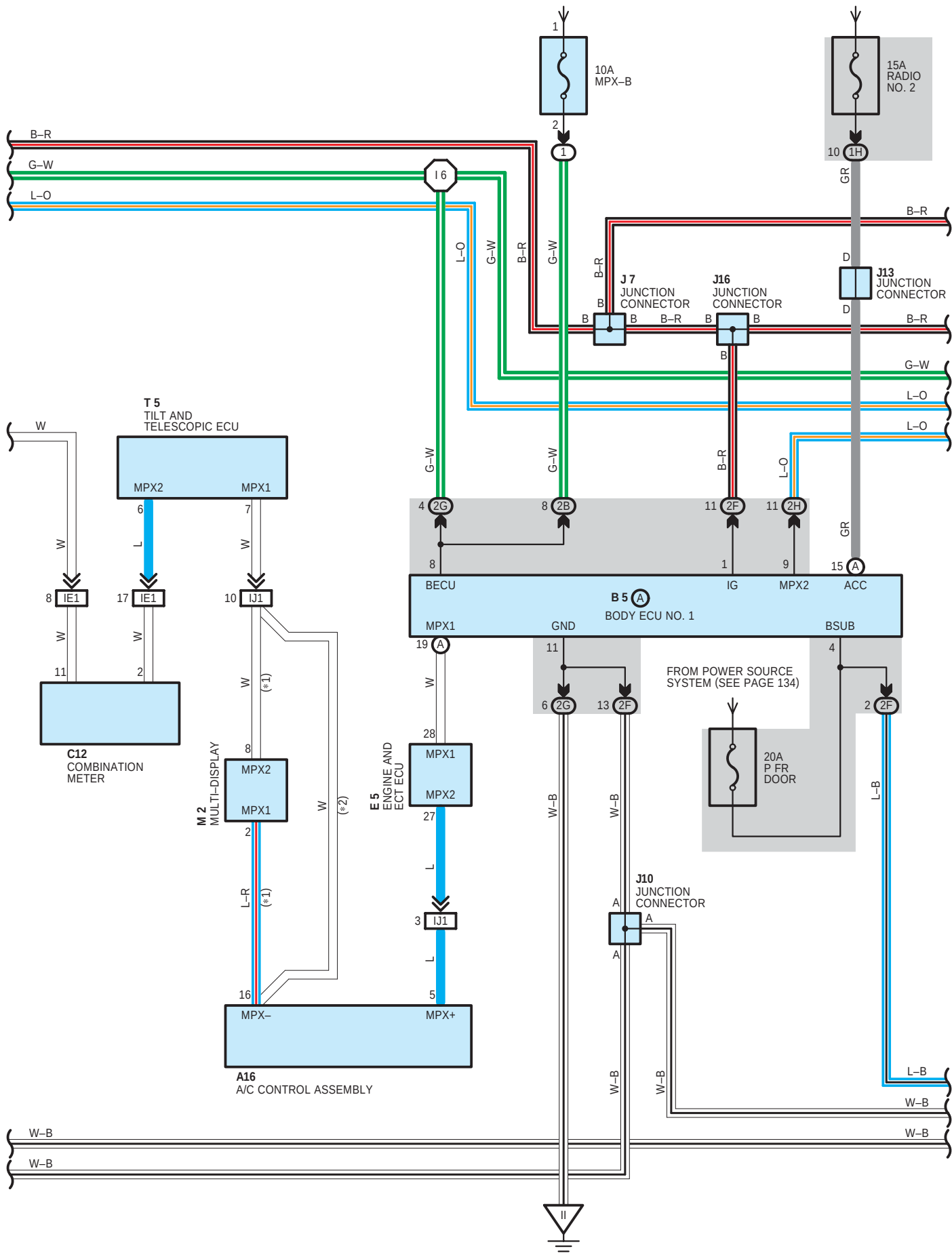




## FROM POWER SOURCE SYSTEM (SEE PAGE 134)



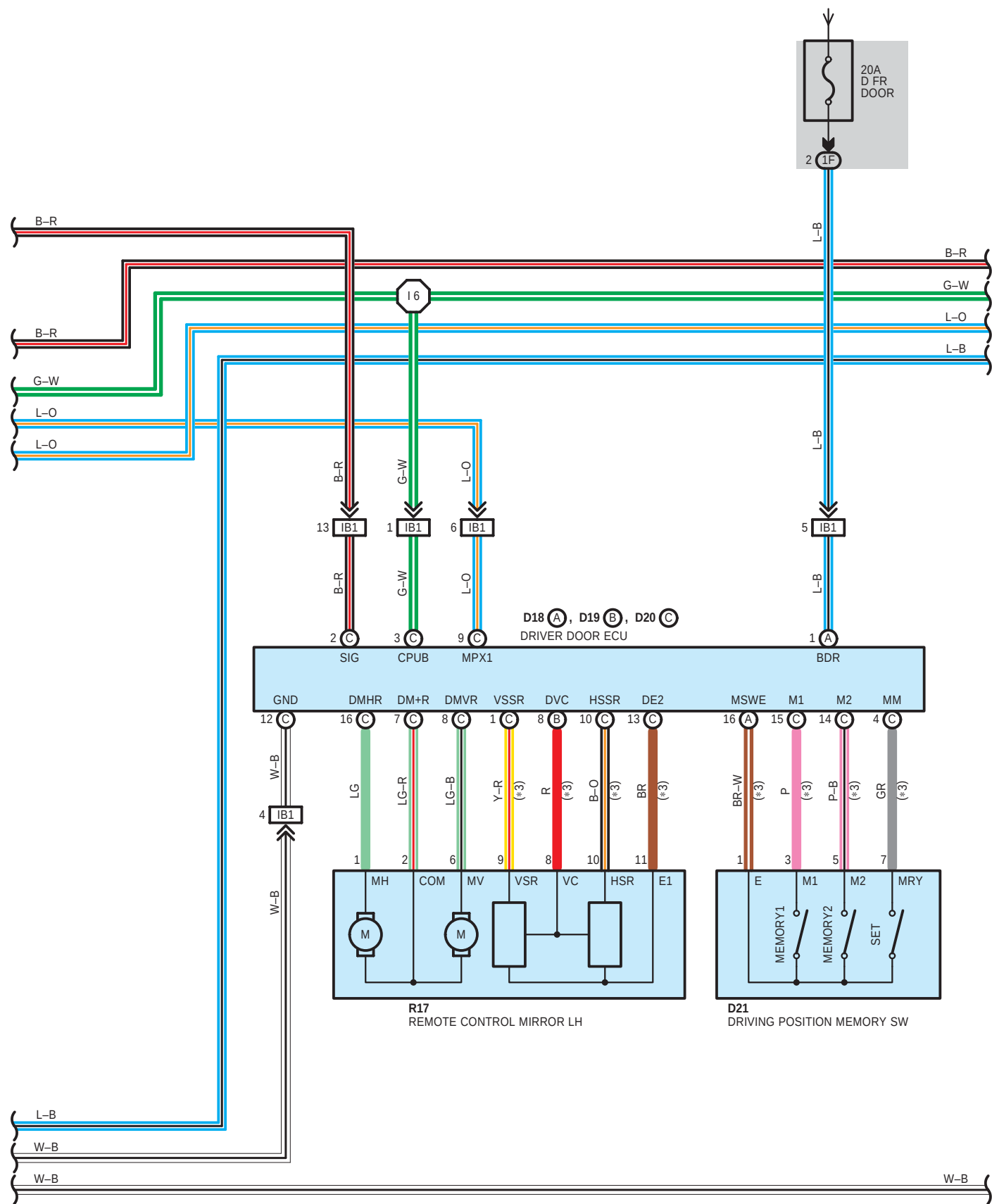
FROM POWER SOURCE SYSTEM (SEE PAGE 134)

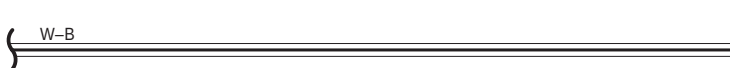




REMOTE CONTROL MIRROR (LHD)

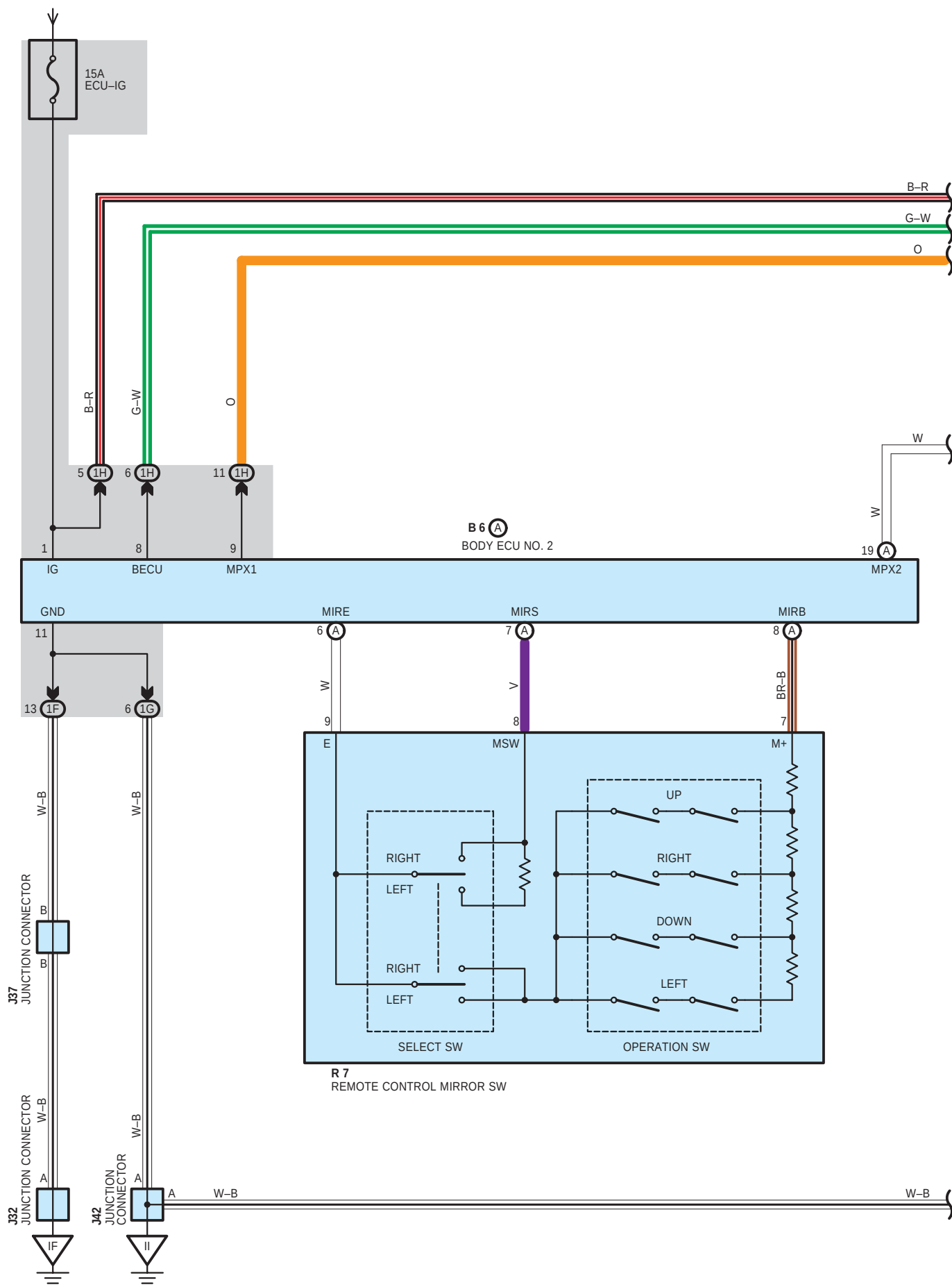
FROM POWER SOURCE SYSTEM (SEE PAGE 134)

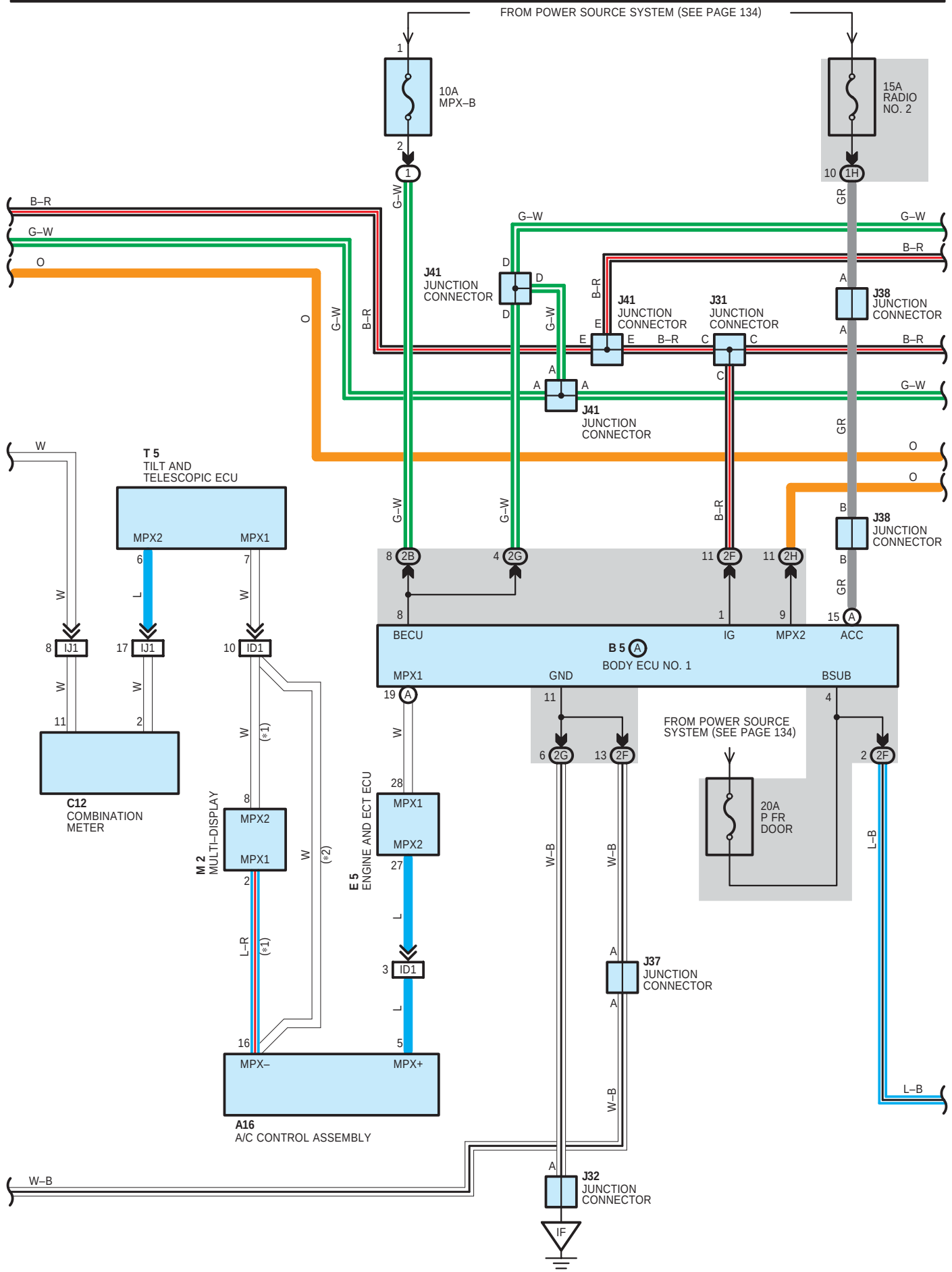




# REMOTE CONTROL MIRROR (RHD)

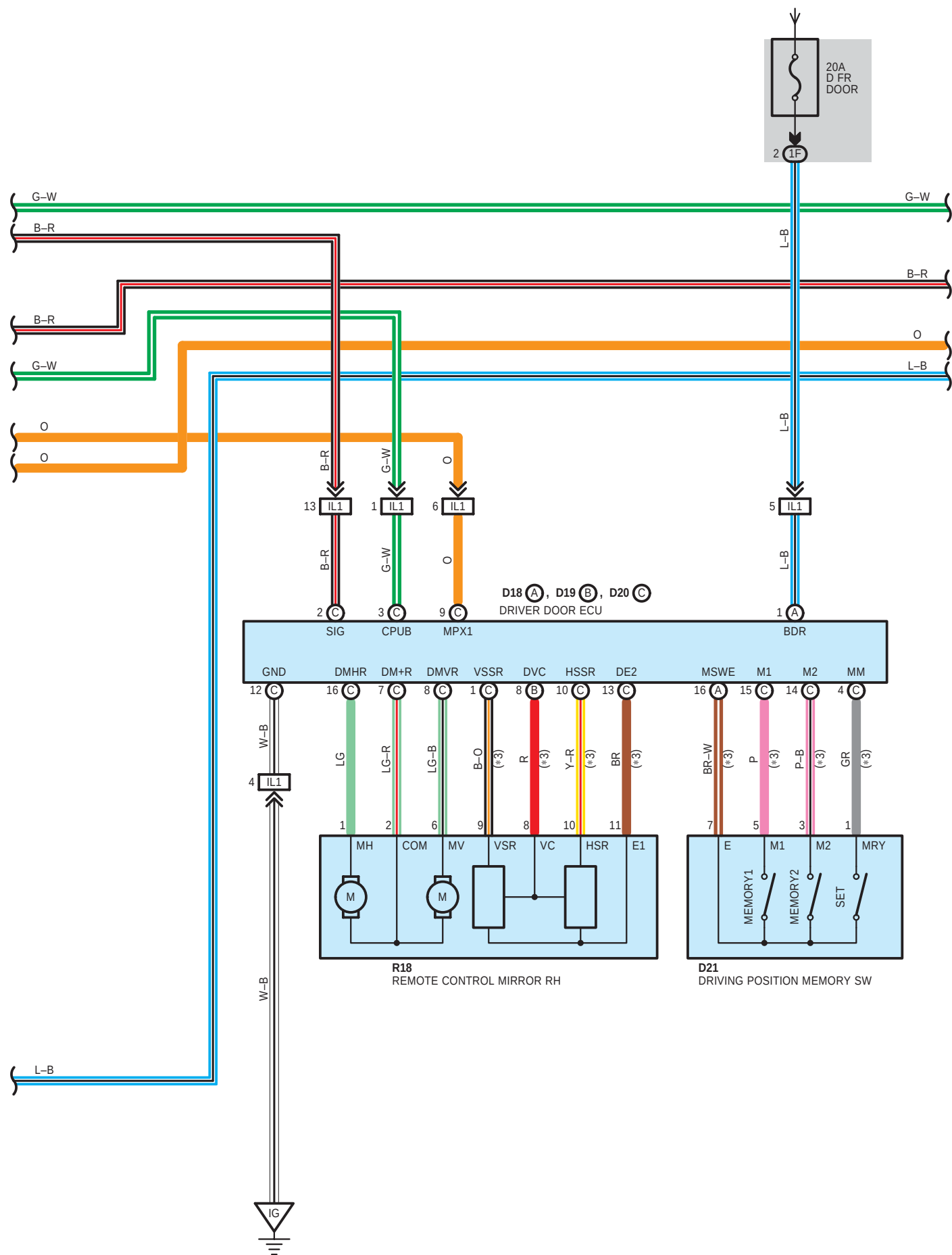
FROM POWER SOURCE SYSTEM (SEE PAGE 134)

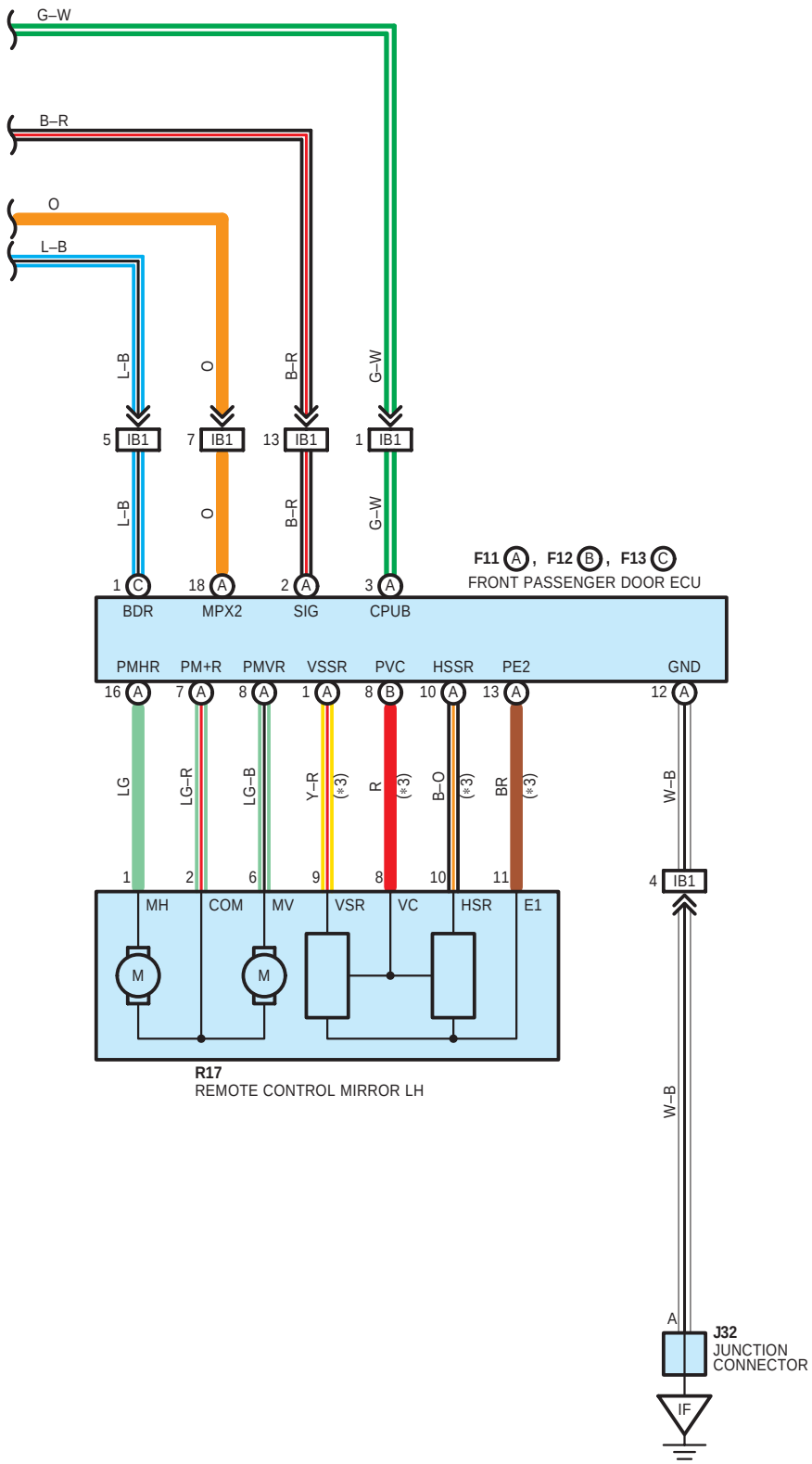




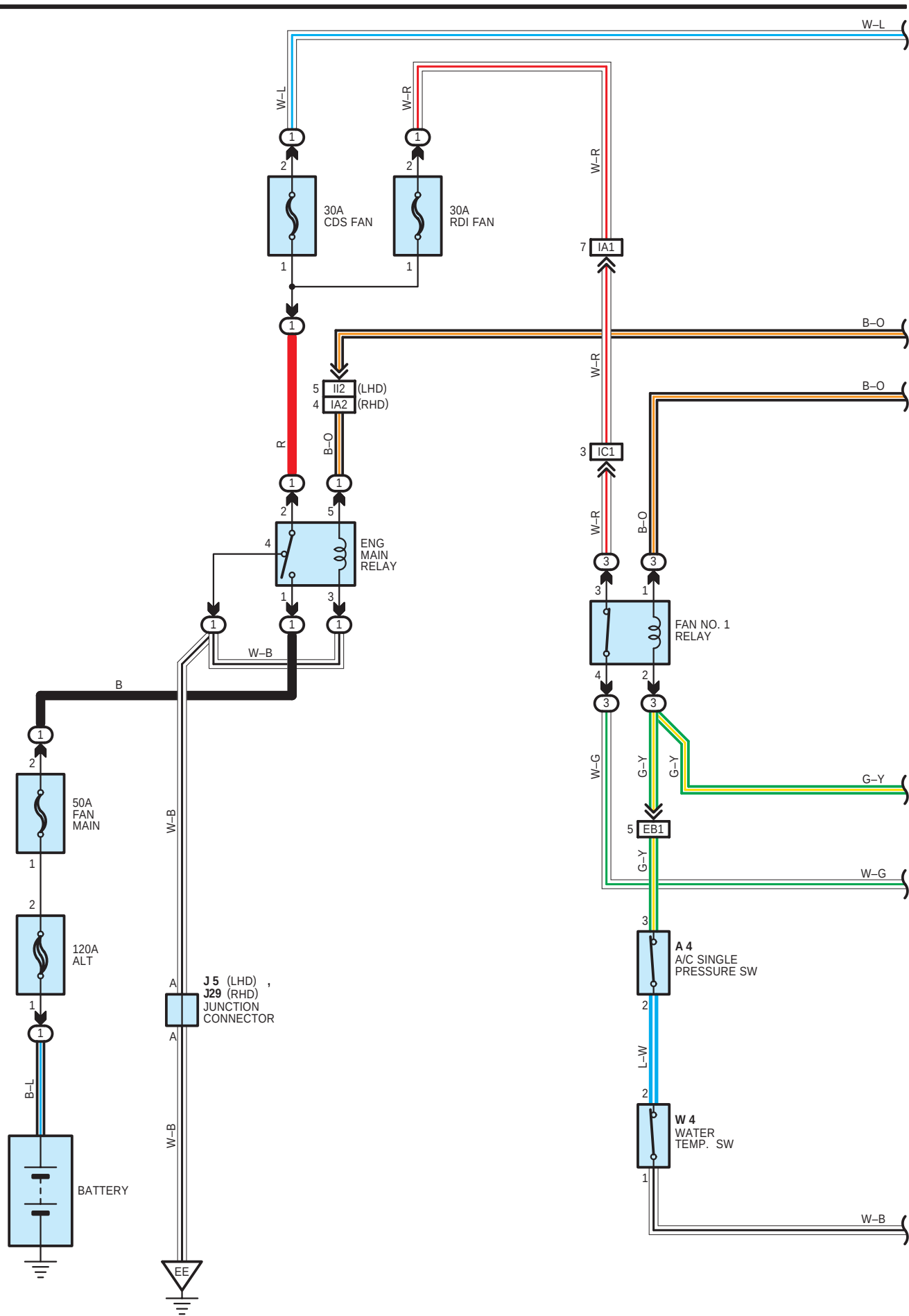
REMOTE CONTROL MIRROR (RHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)





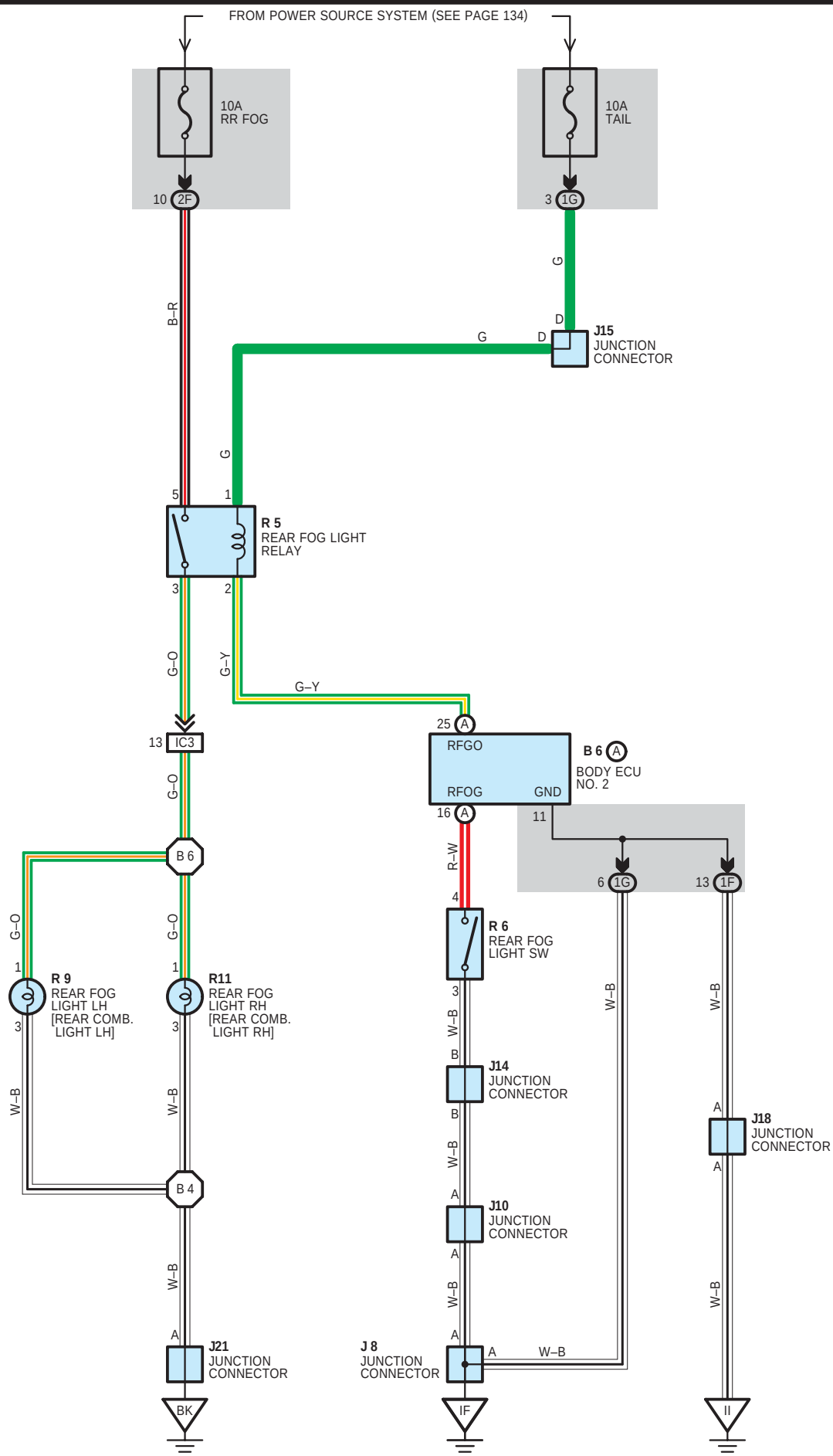
# RADIATOR FAN AND CONDENSER FAN



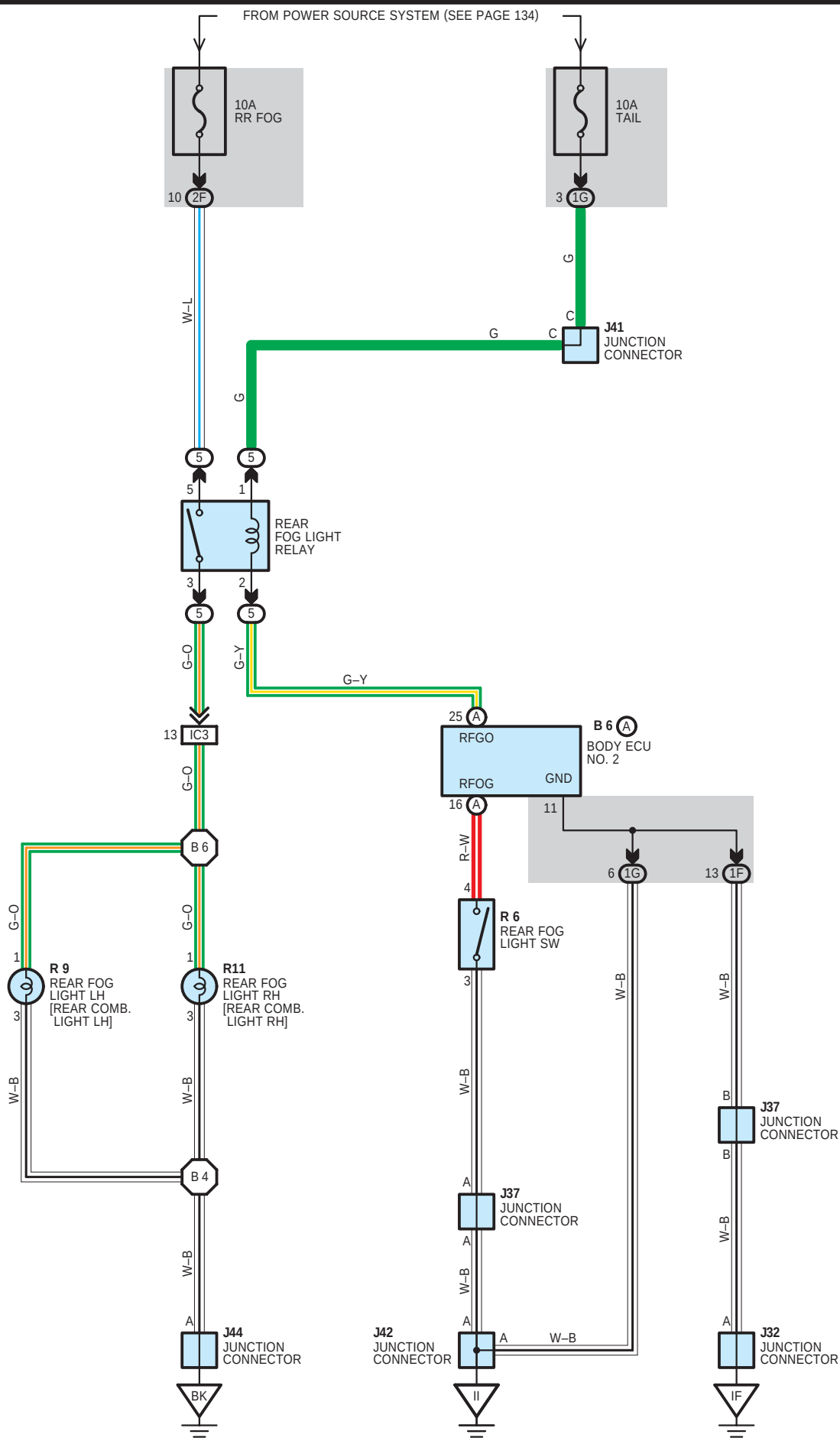




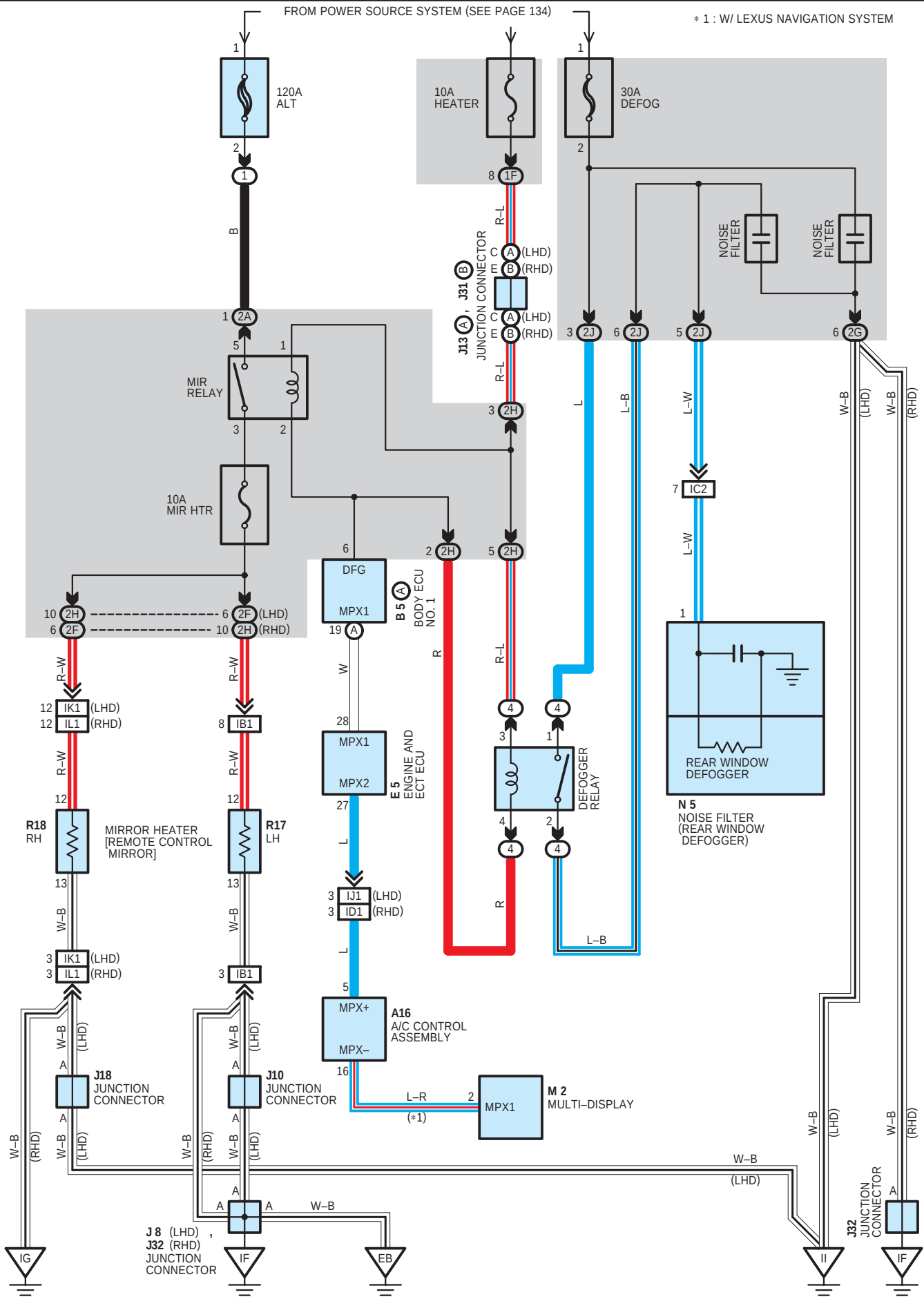
# REAR FOG LIGHT (LHD EUROPE)



# REAR FOG LIGHT (RHD)

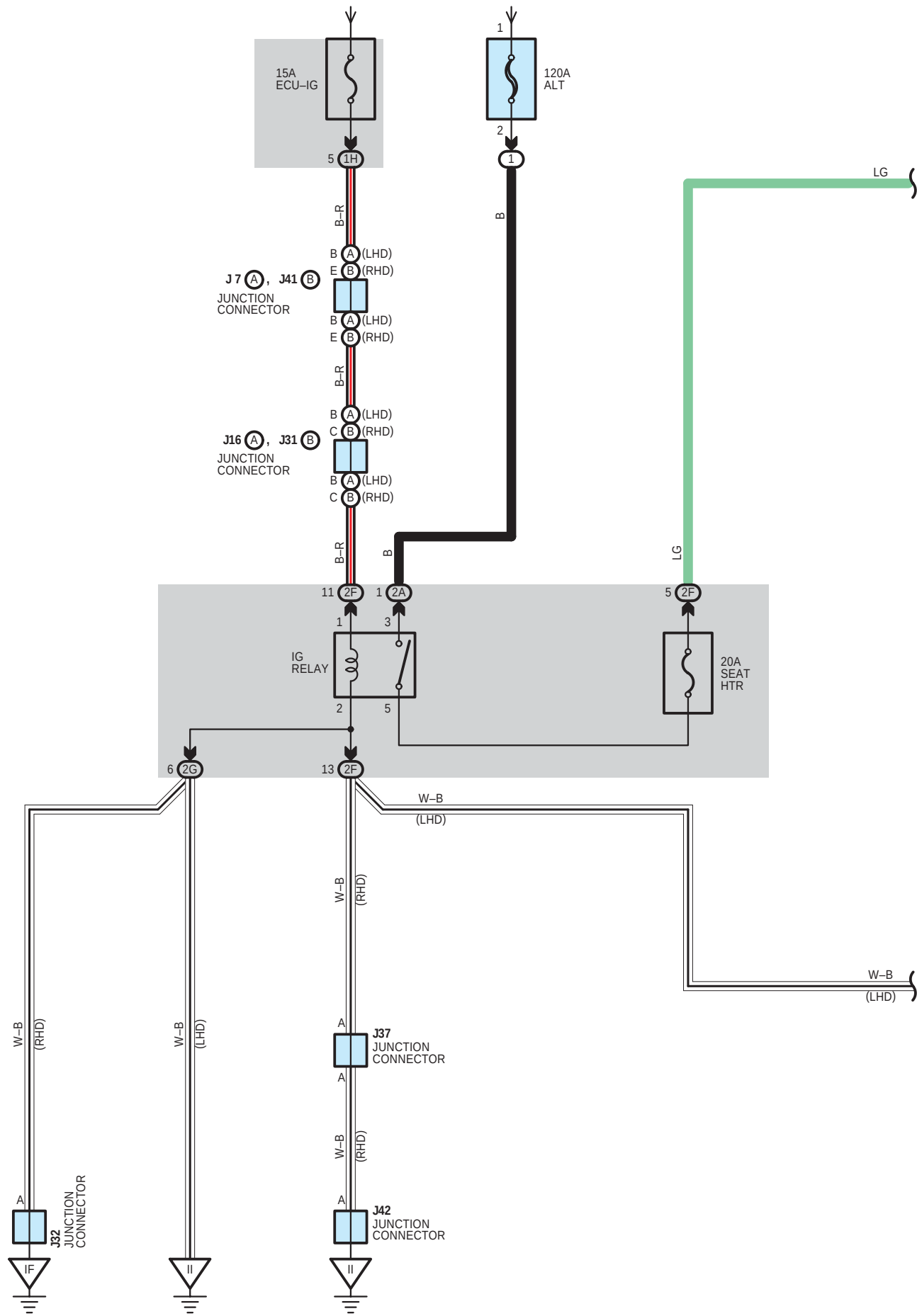


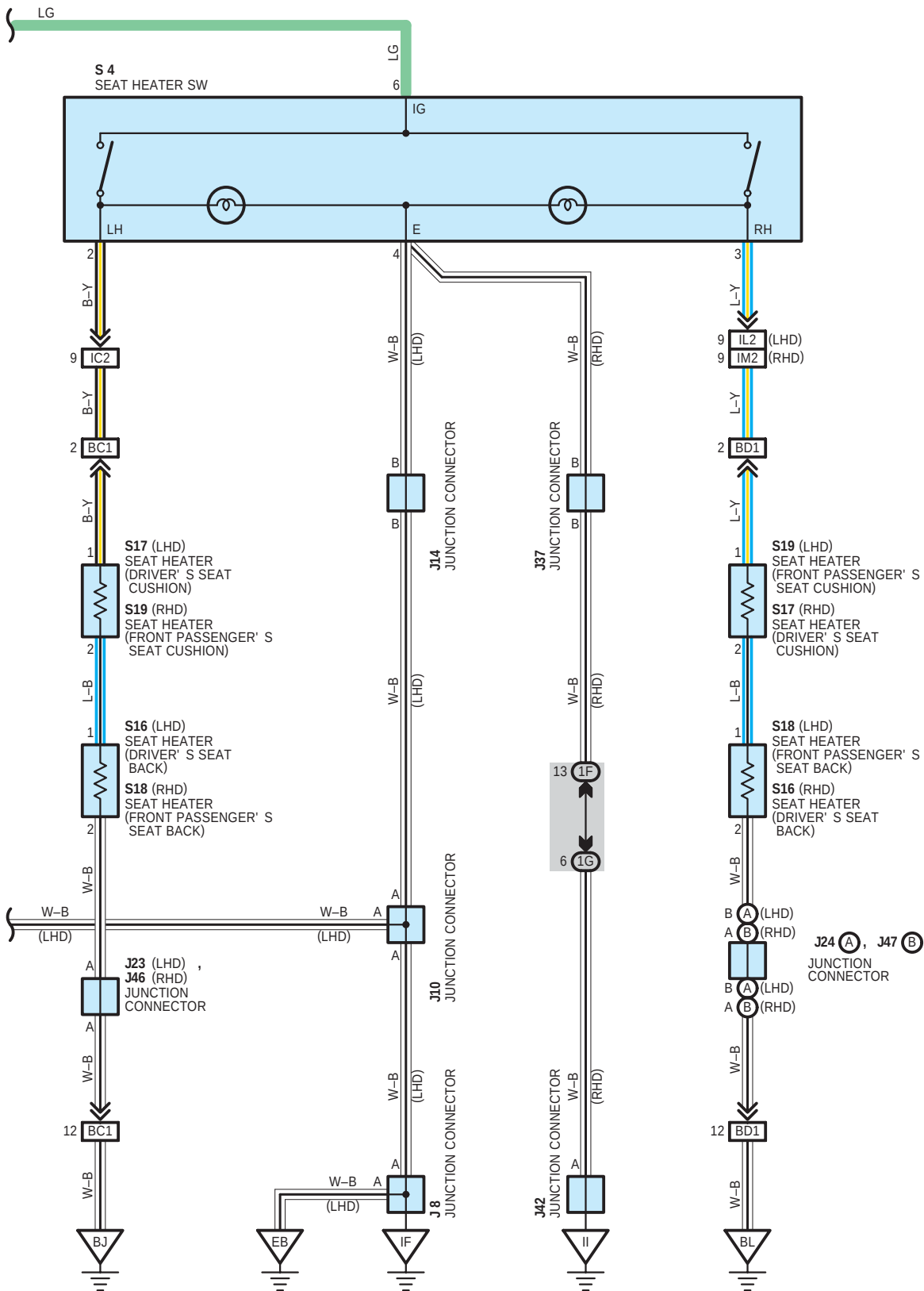
# REAR WINDOW DEFOGGER AND MIRROR HEATER



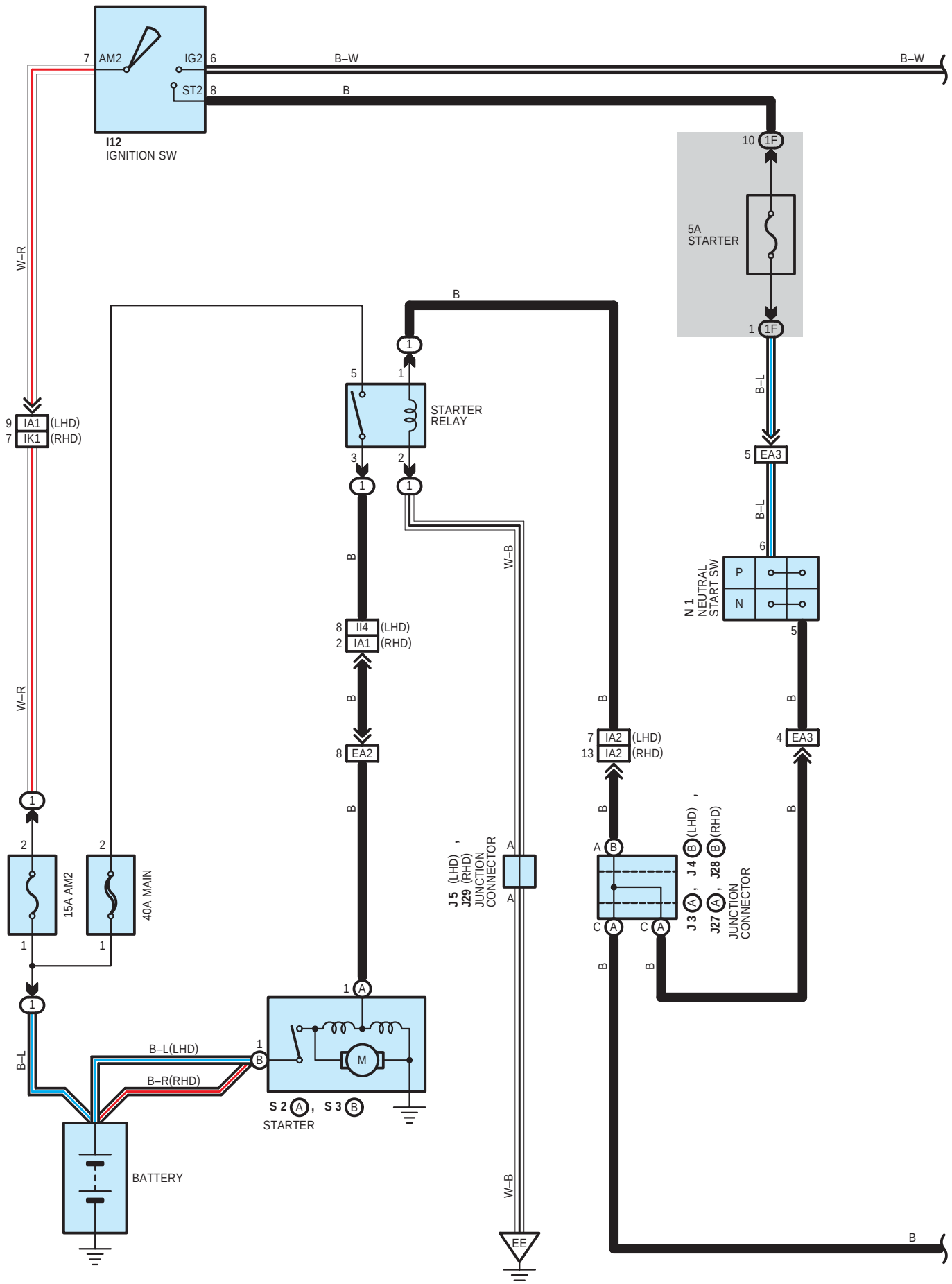
SEAT HEATER

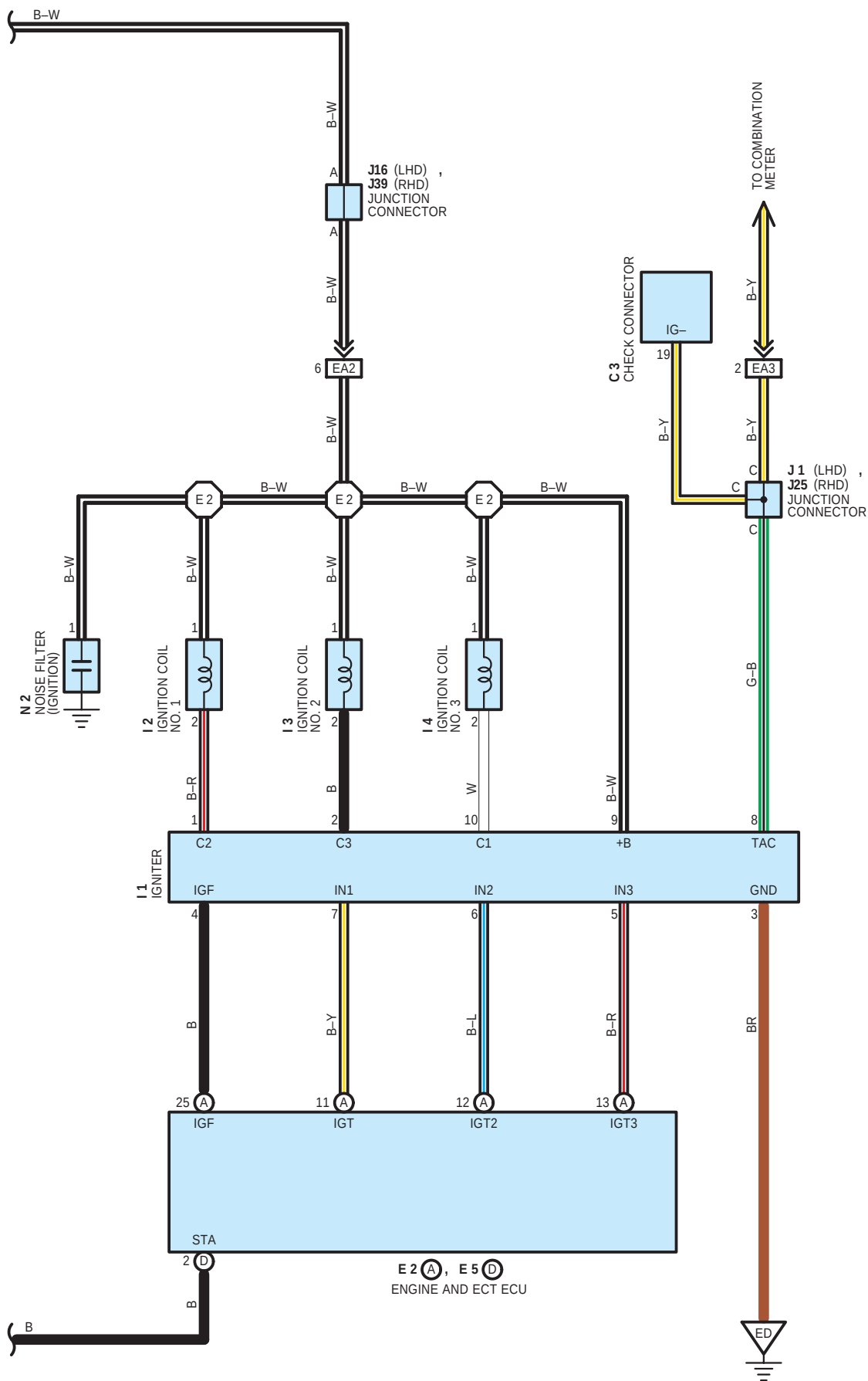
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



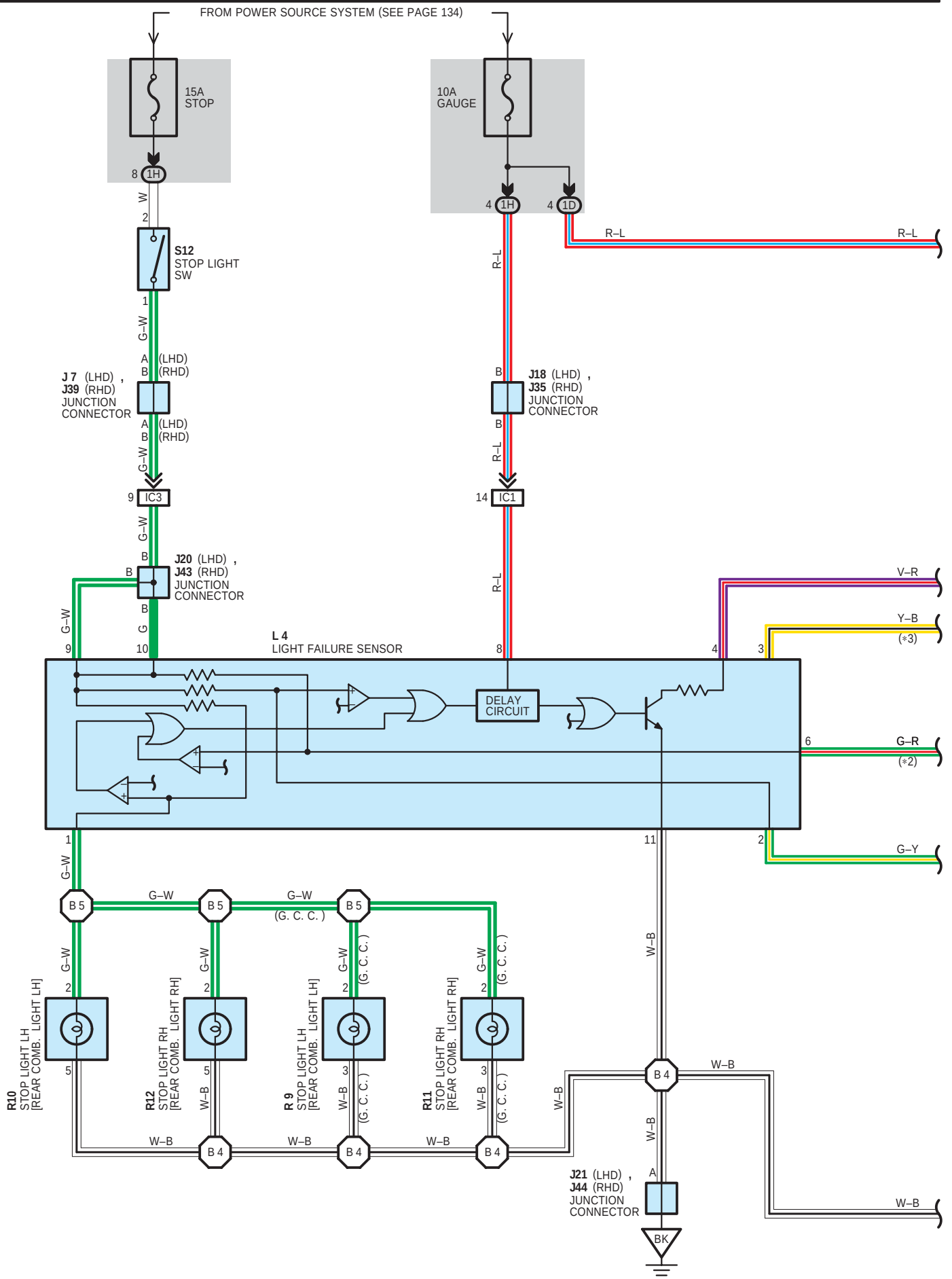


# STARTING AND IGNITION

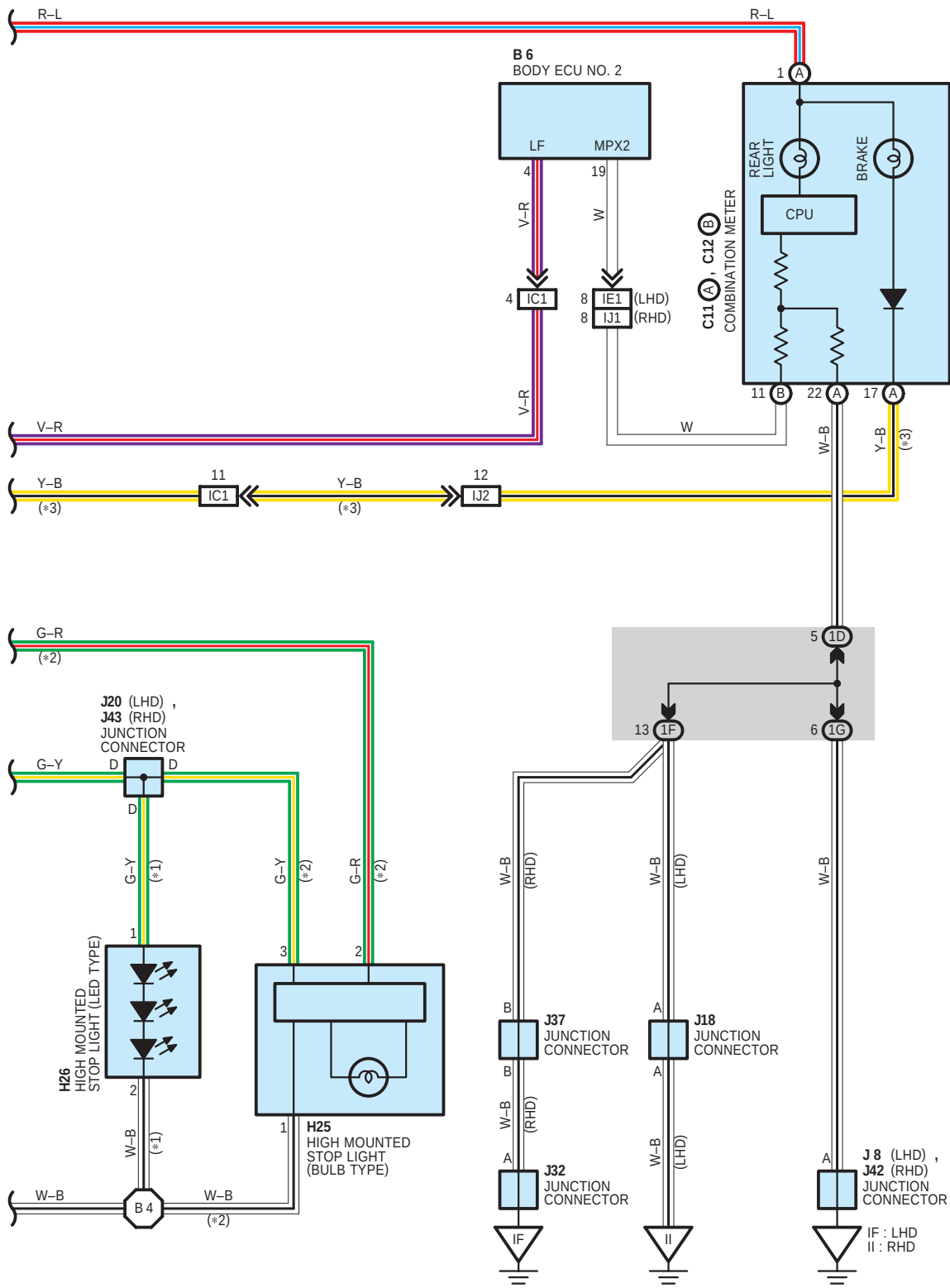




# STOP LIGHT



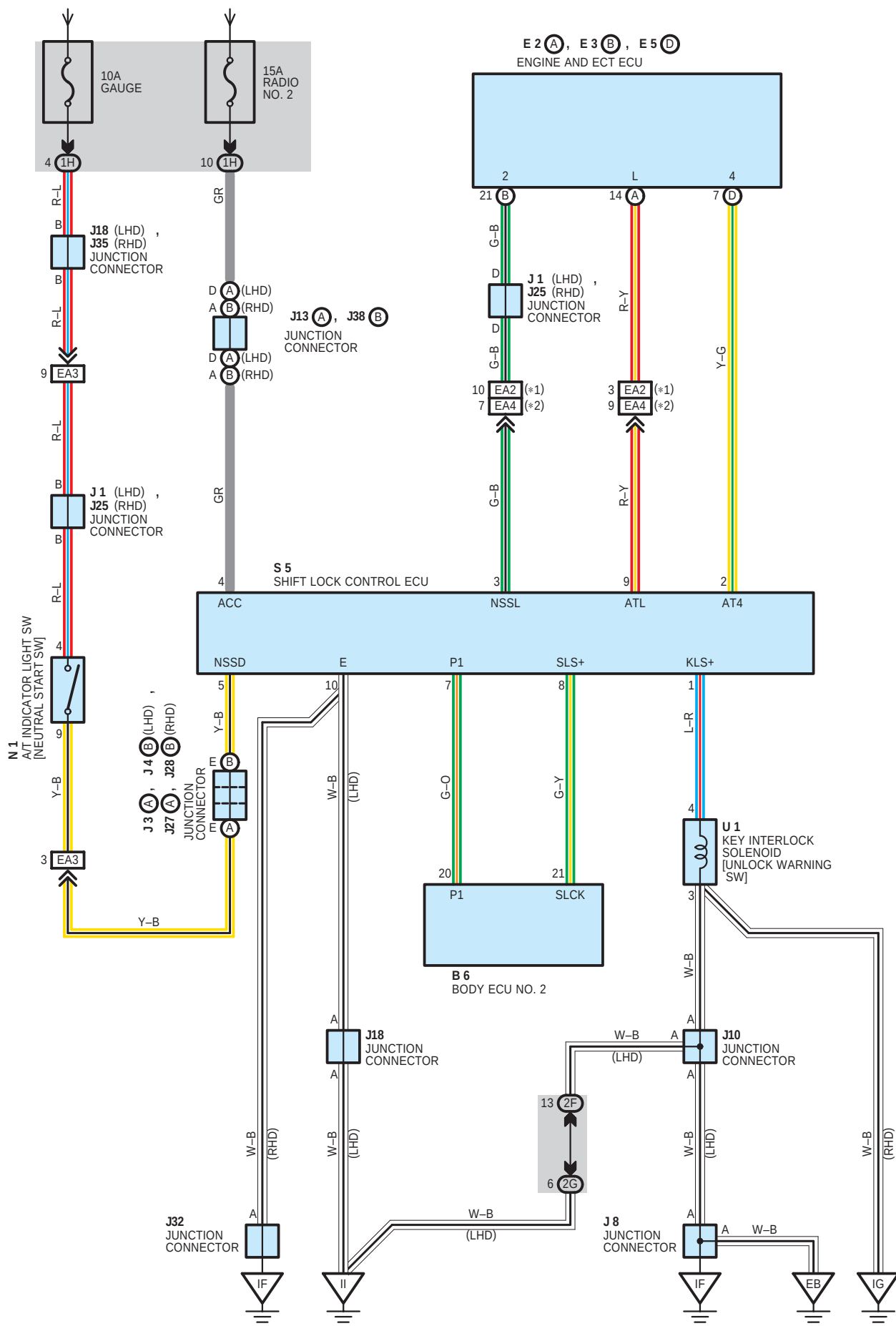




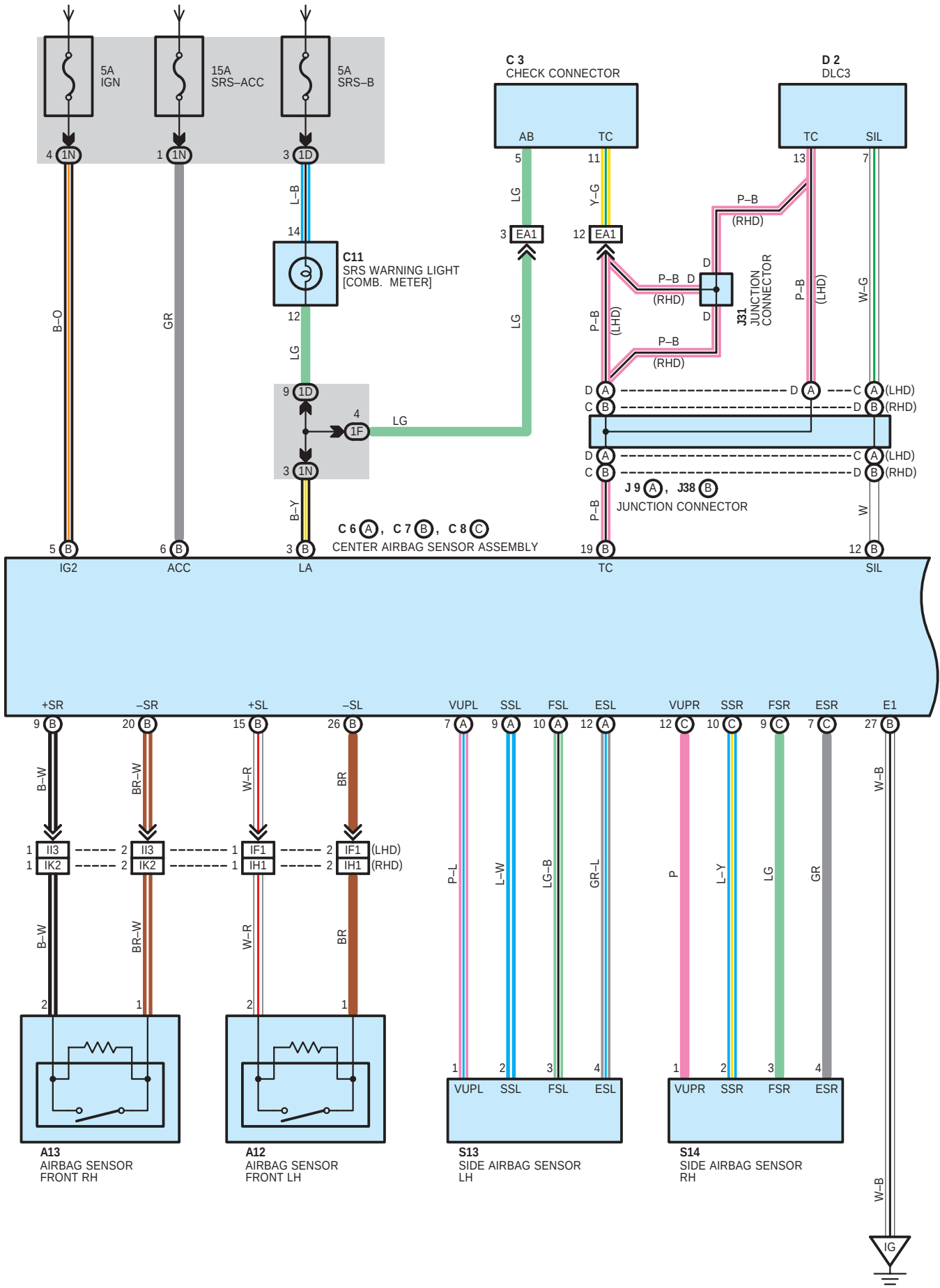
# SHIFT LOCK

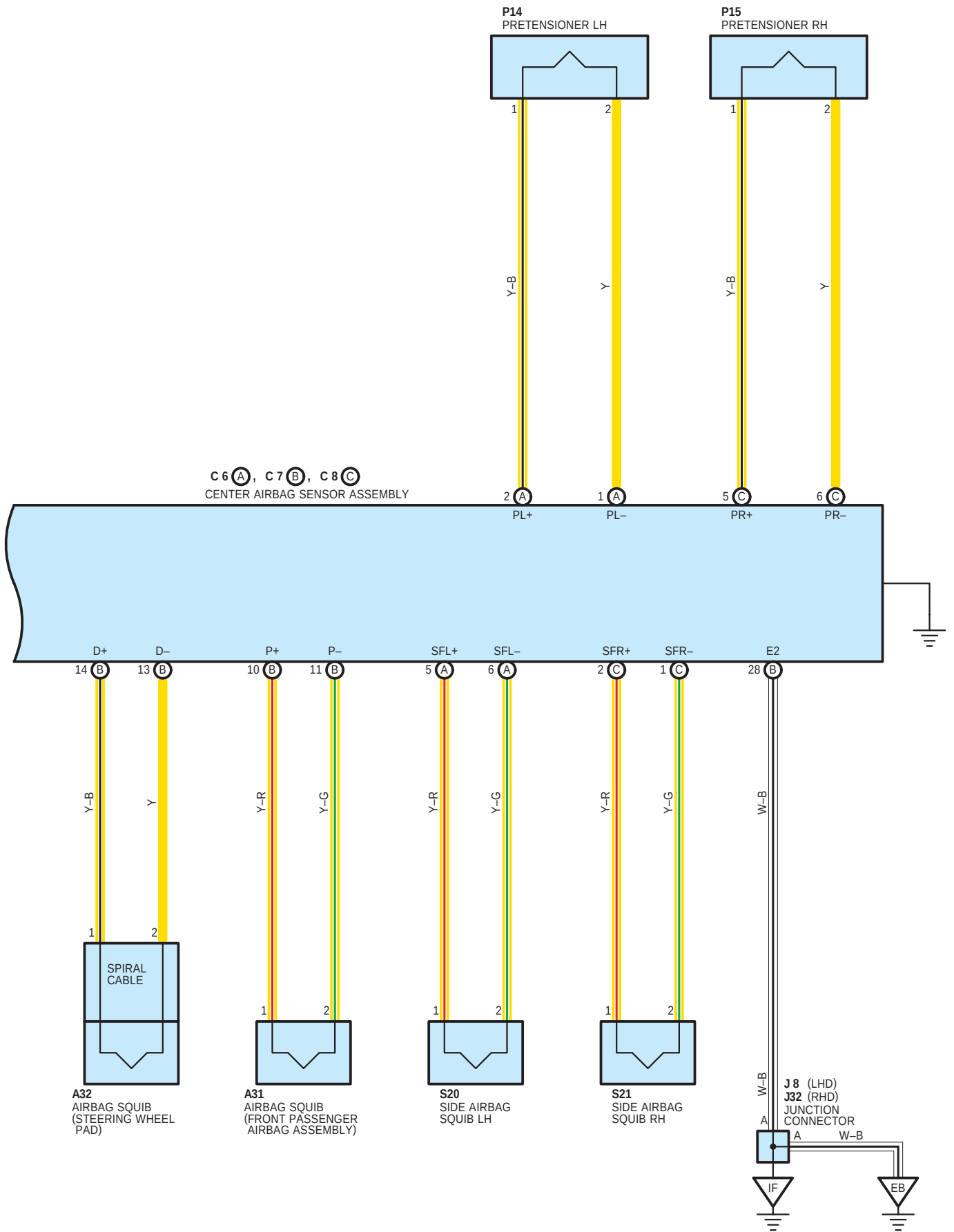
\* 1 : G. C. C.  
\* 2 : EXCEPT G. C. C.

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



FROM POWER SOURCE SYSTEM (SEE PAGE 134)





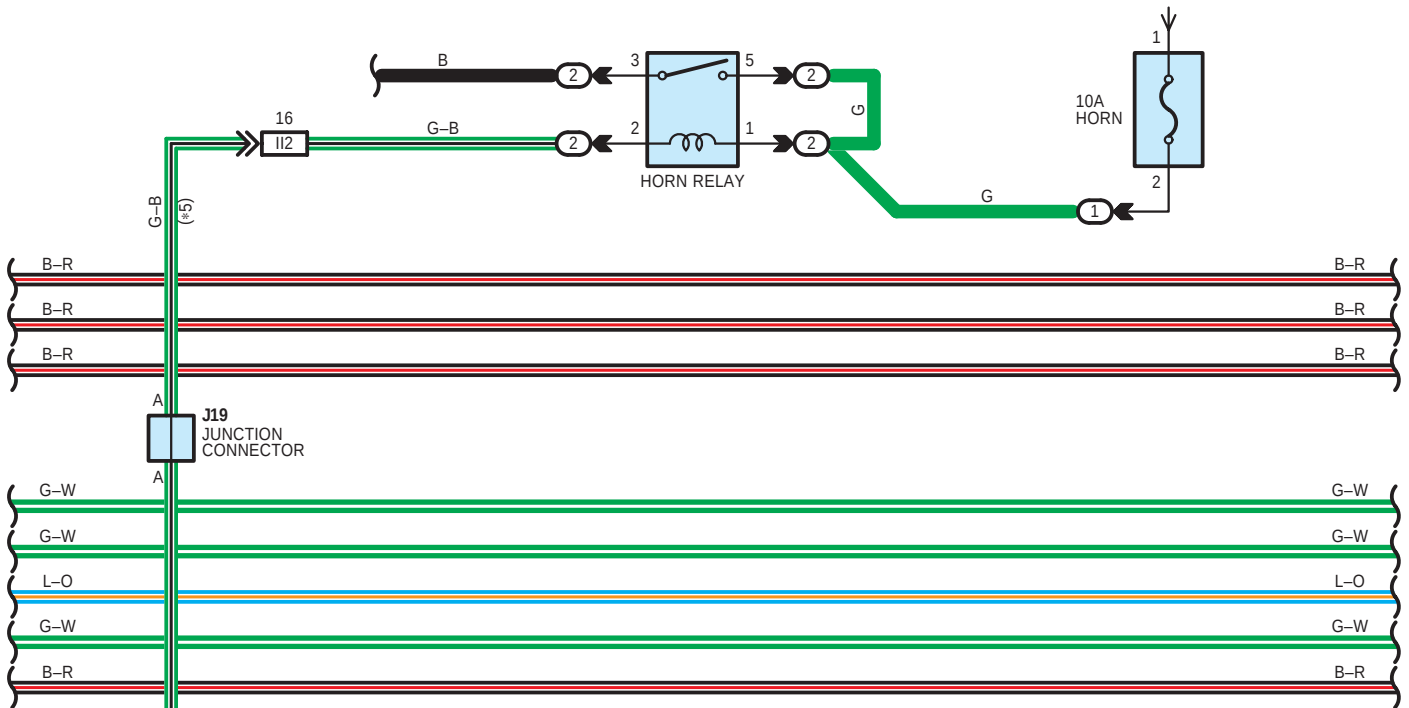


\* 3 : W/ DAYTIME RUNNING LIGHT  
\* 4 : W/O DAYTIME RUNNING LIGHT

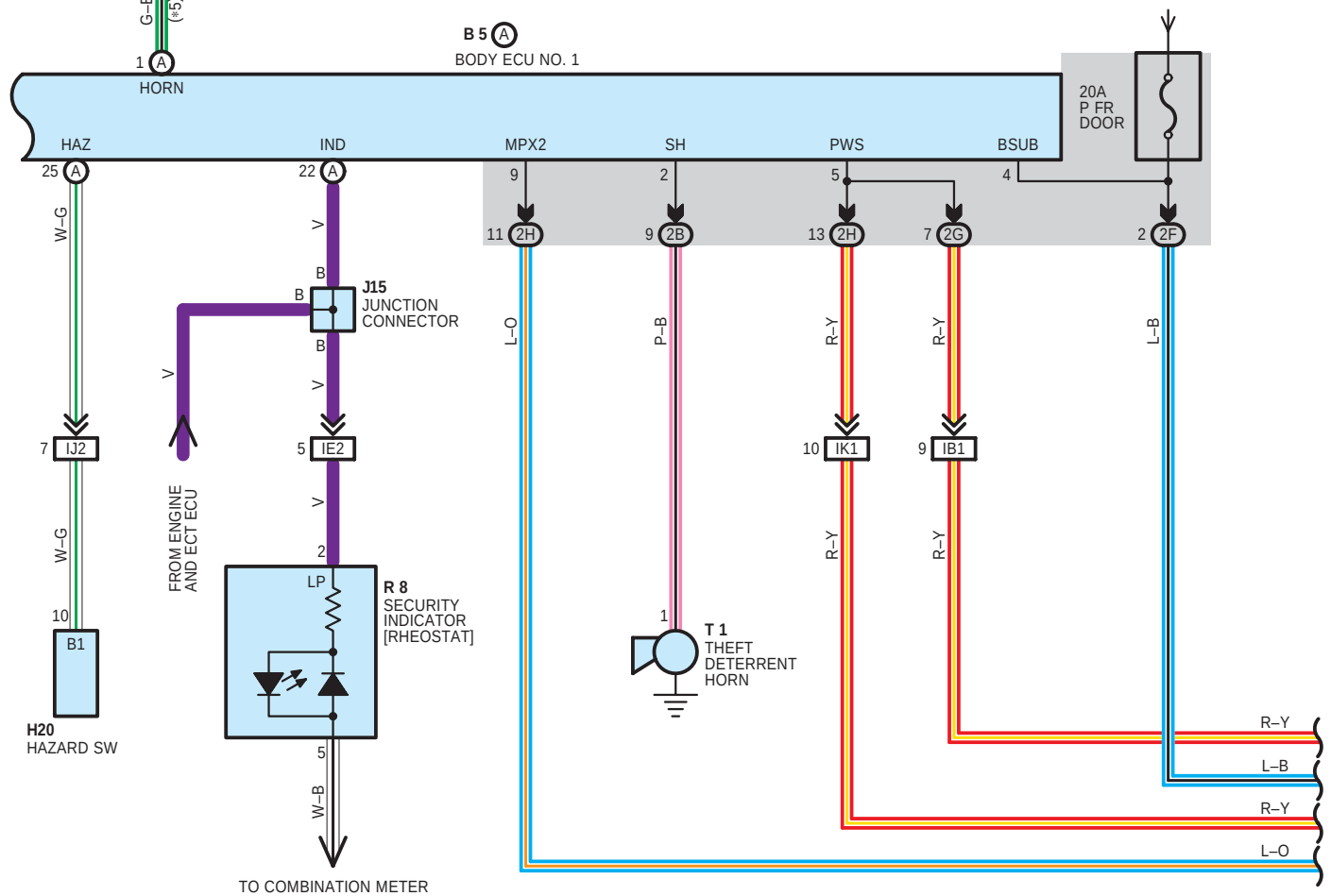


## THEFT DETERRENT AND DOOR LOCK CONTROL (LHD)

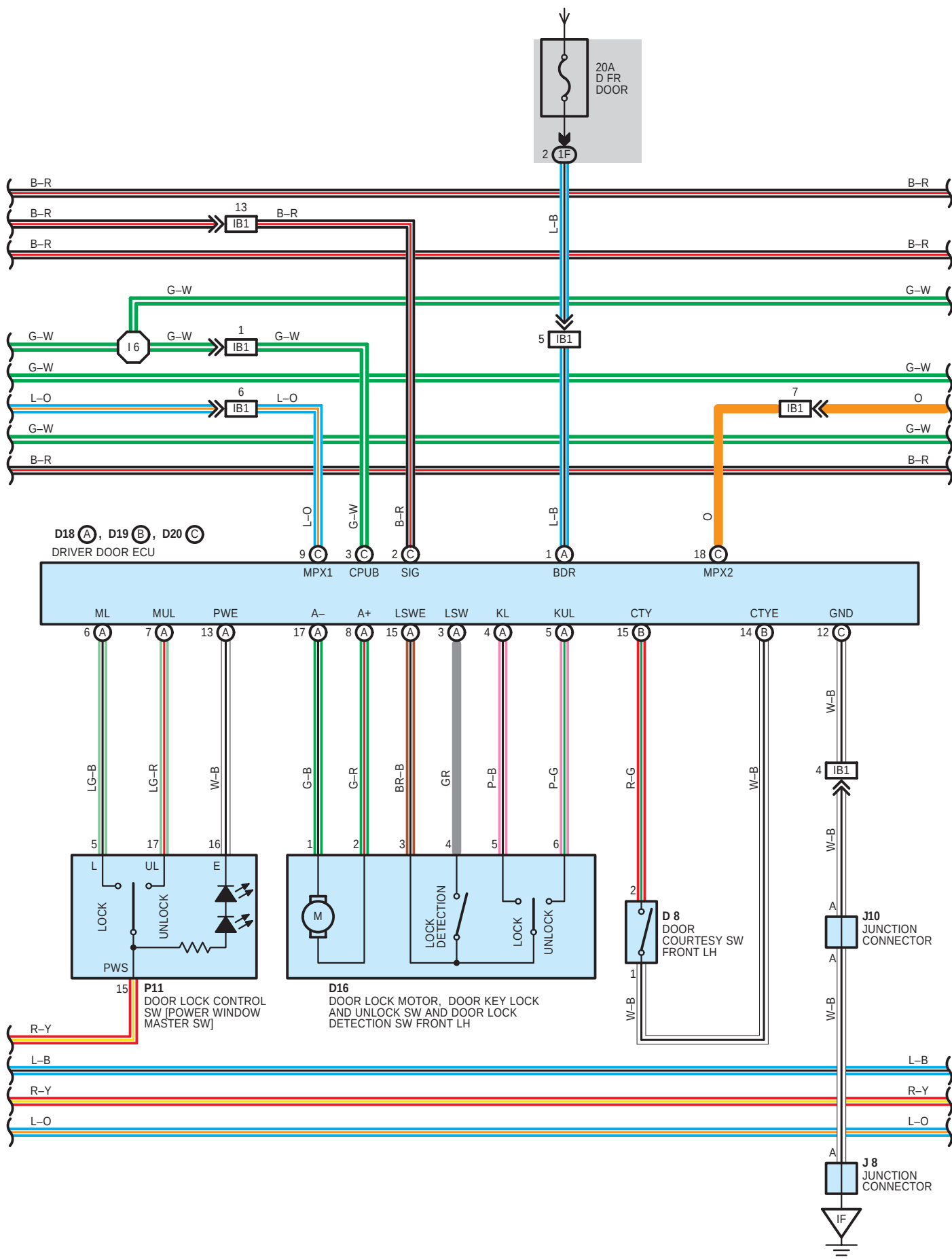
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



FROM POWER SOURCE SYSTEM (SEE PAGE 134)

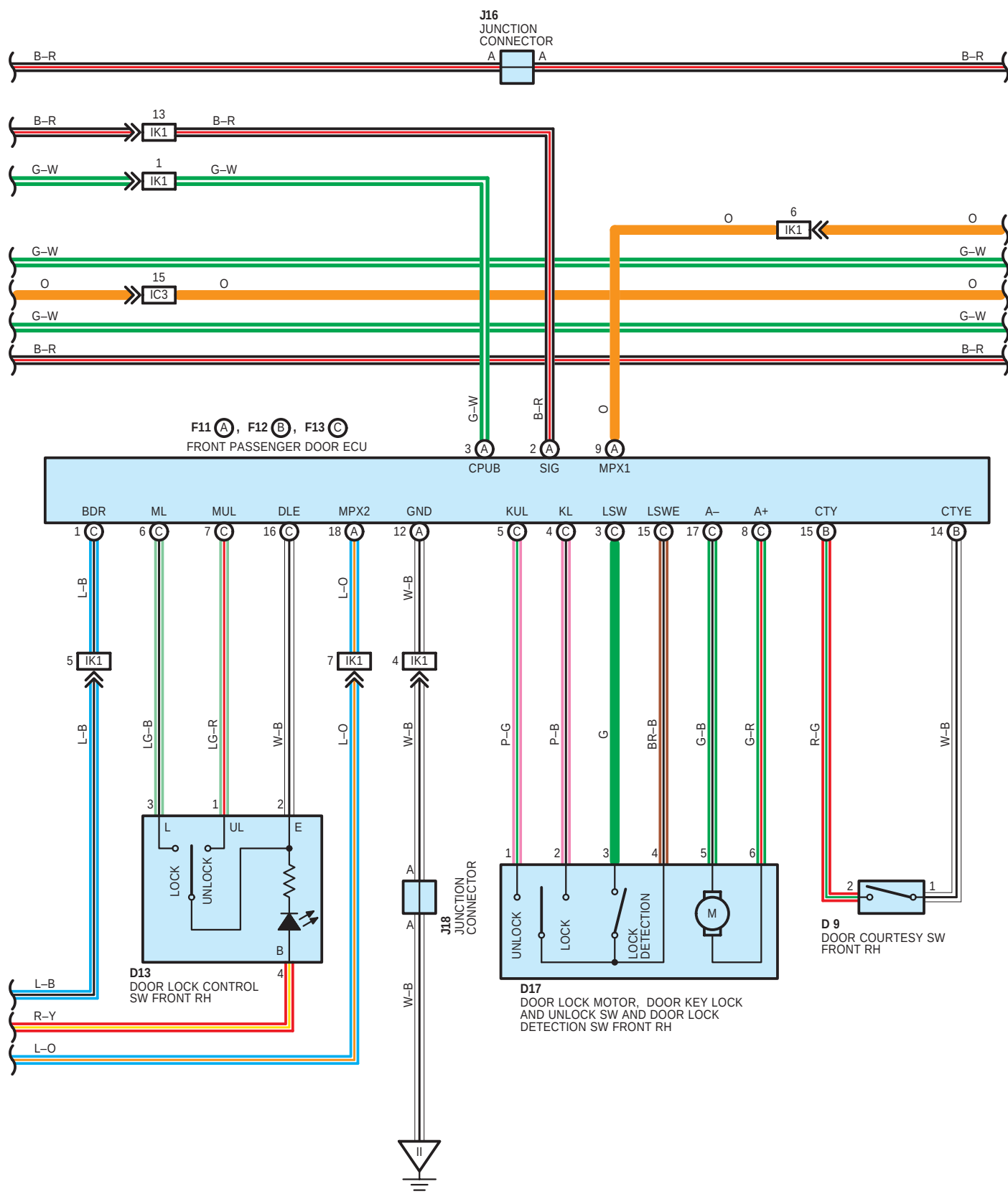


FROM POWER SOURCE SYSTEM (SEE PAGE 134)

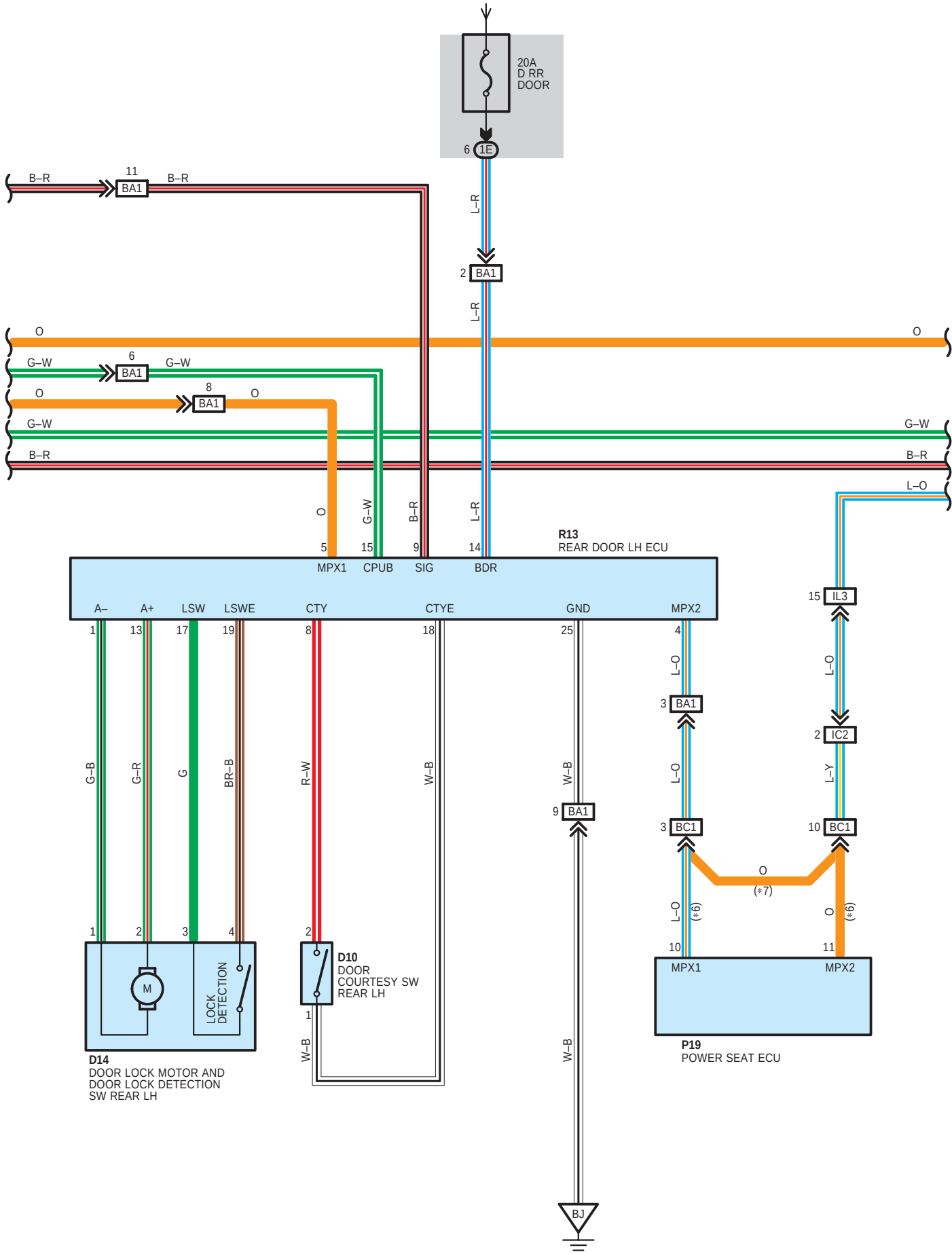




# THEFT DETERRENT AND DOOR LOCK CONTROL (LHD)

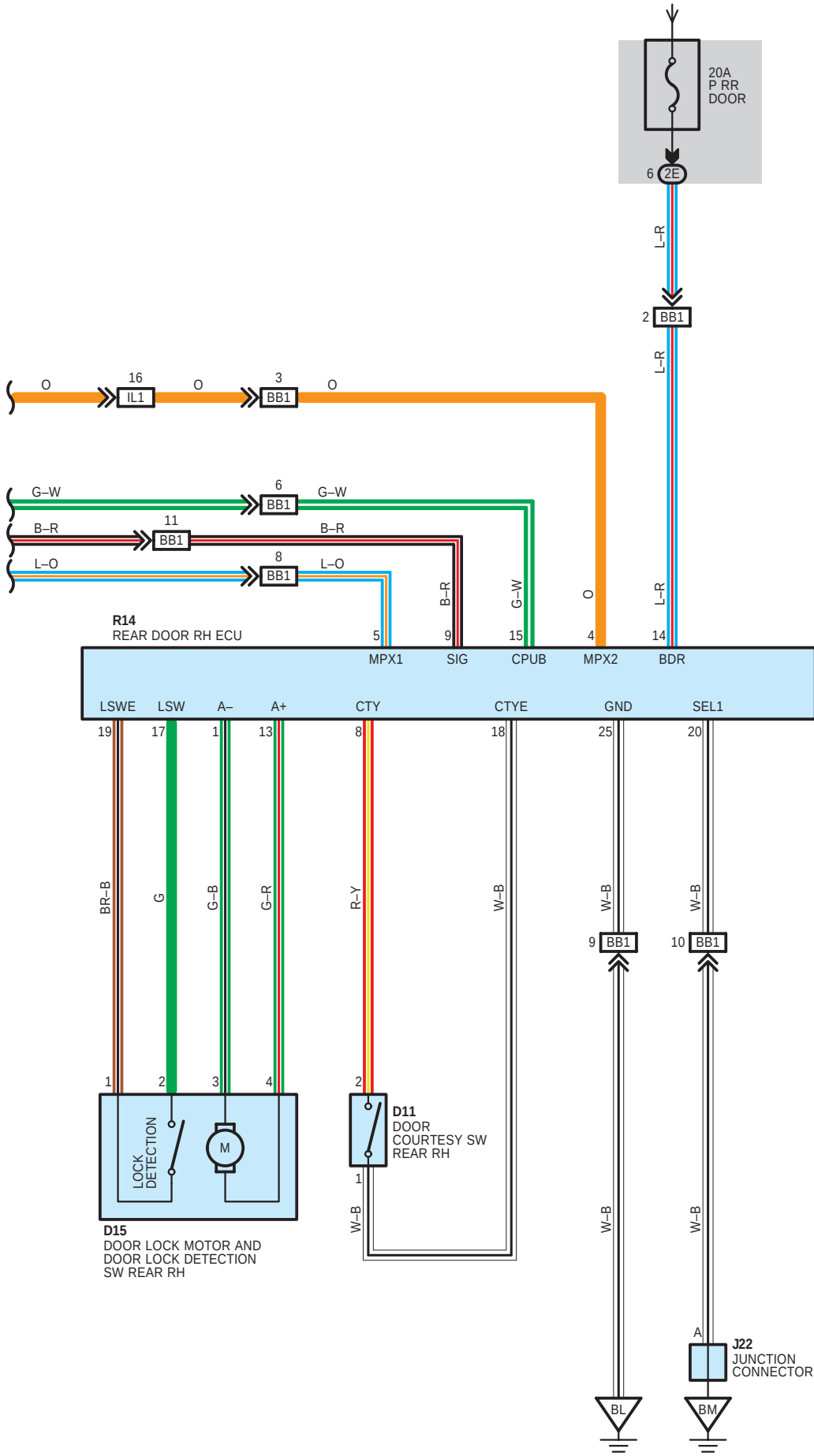


FROM POWER SOURCE SYSTEM (SEE PAGE 134)

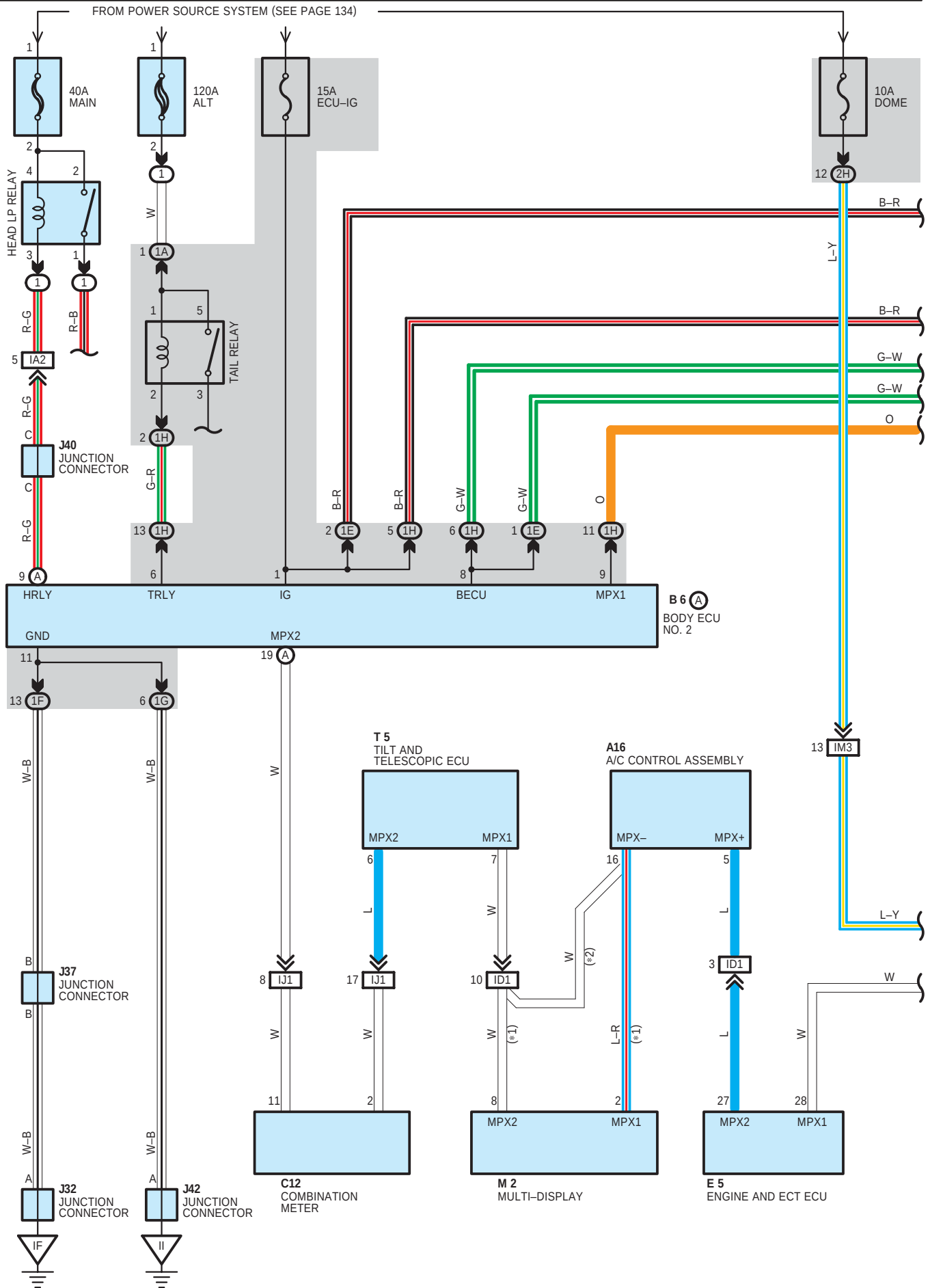


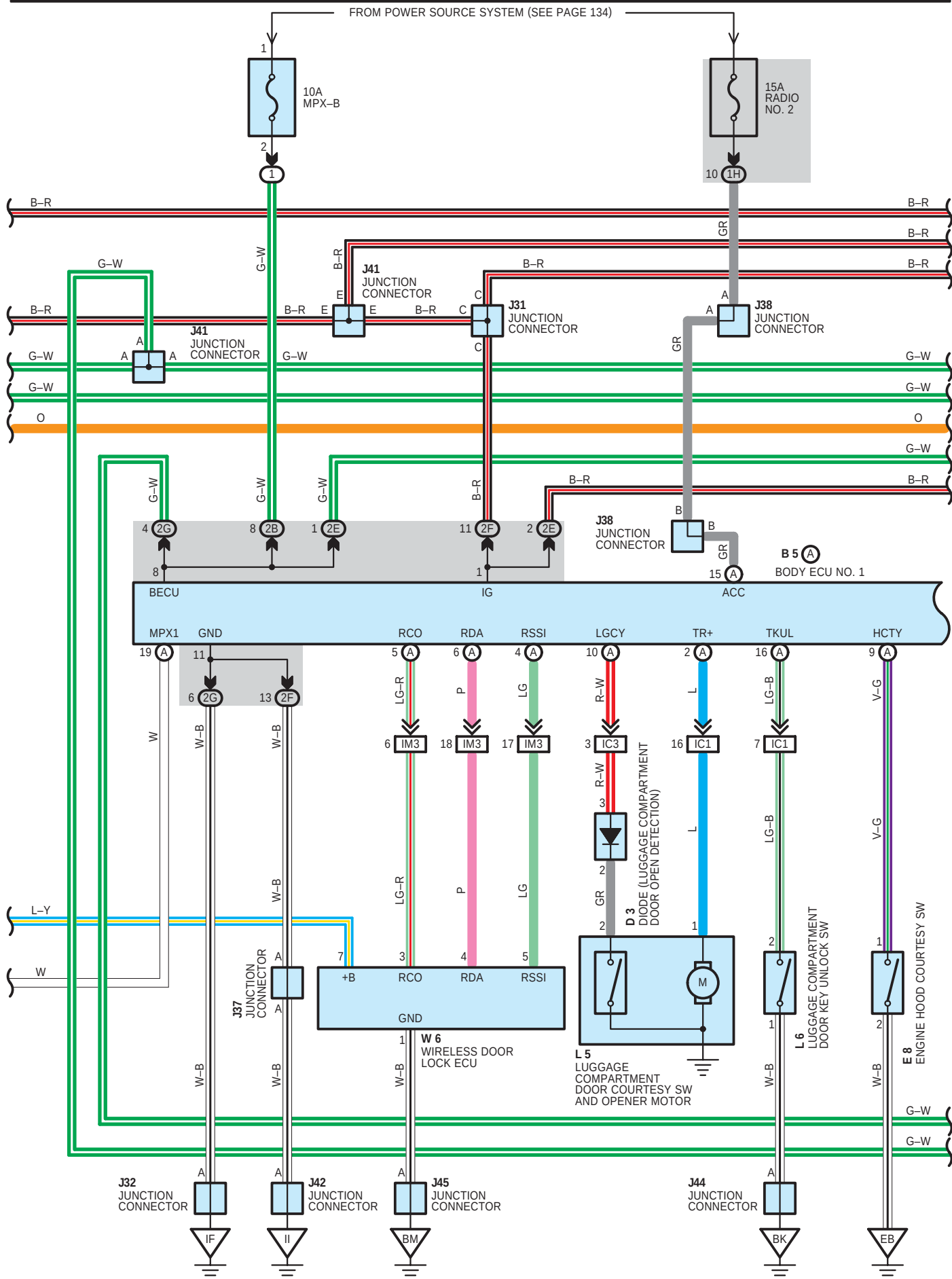
# THEFT DETERRENT AND DOOR LOCK CONTROL (LHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



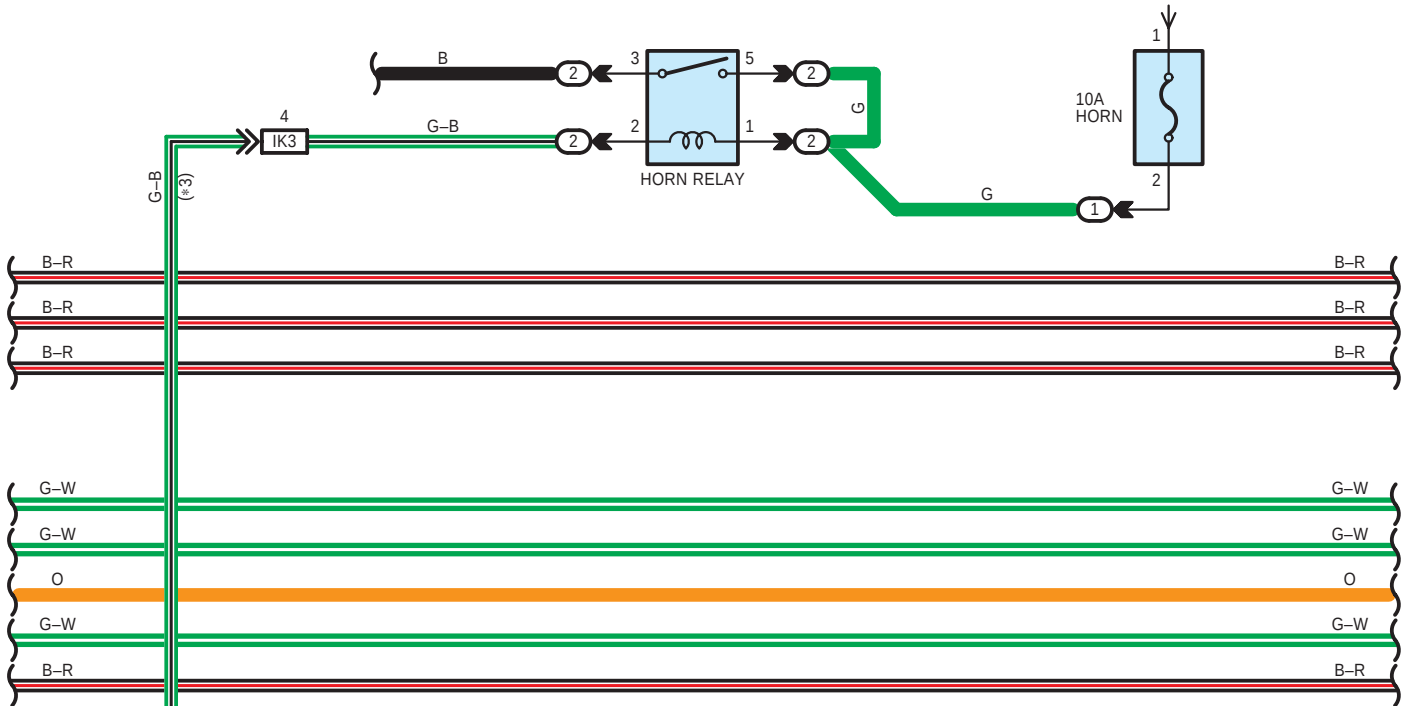
# THEFT DETERRENT AND DOOR LOCK CONTROL (RHD)



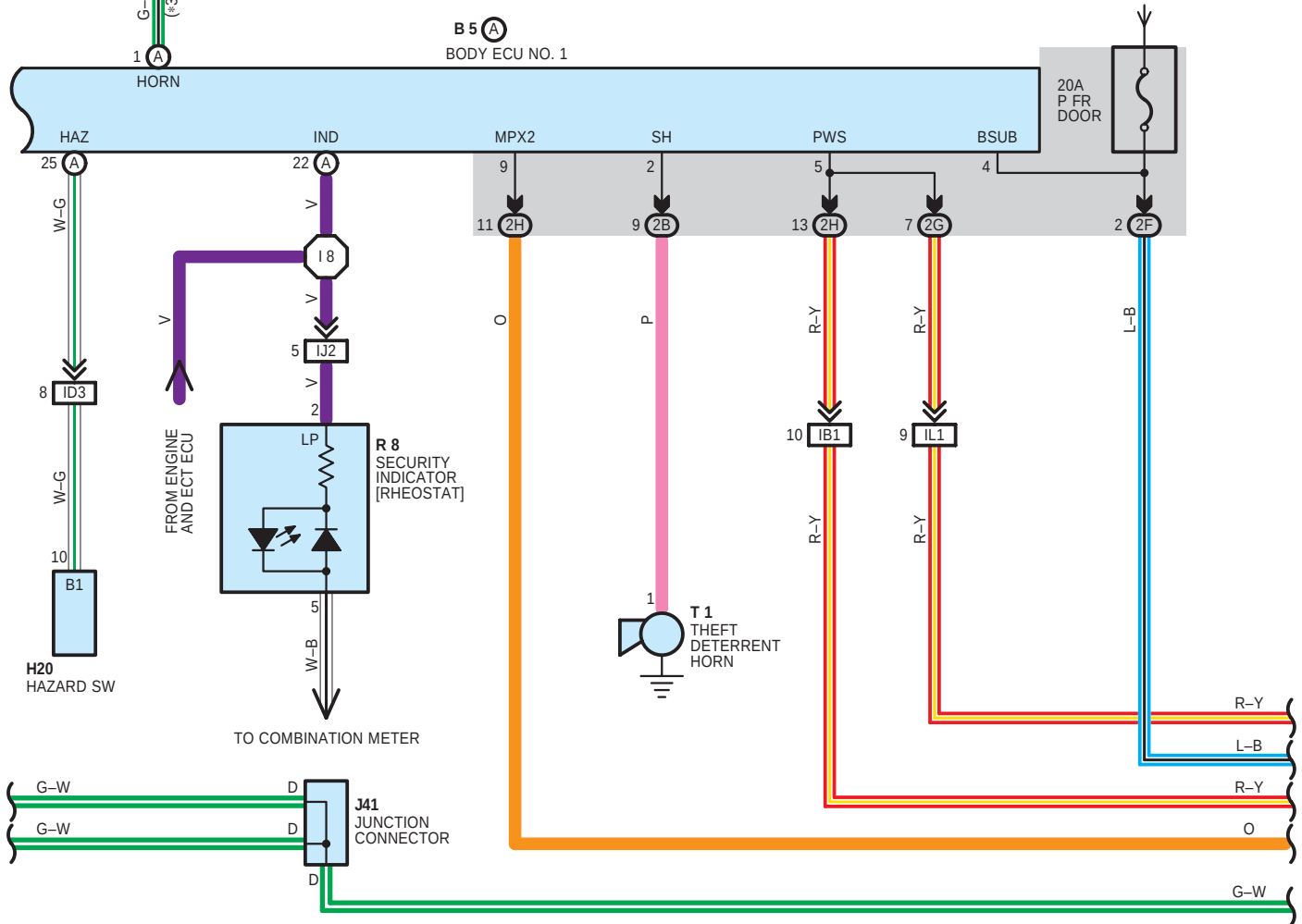


# THEFT DETERRENT AND DOOR LOCK CONTROL (RHD)

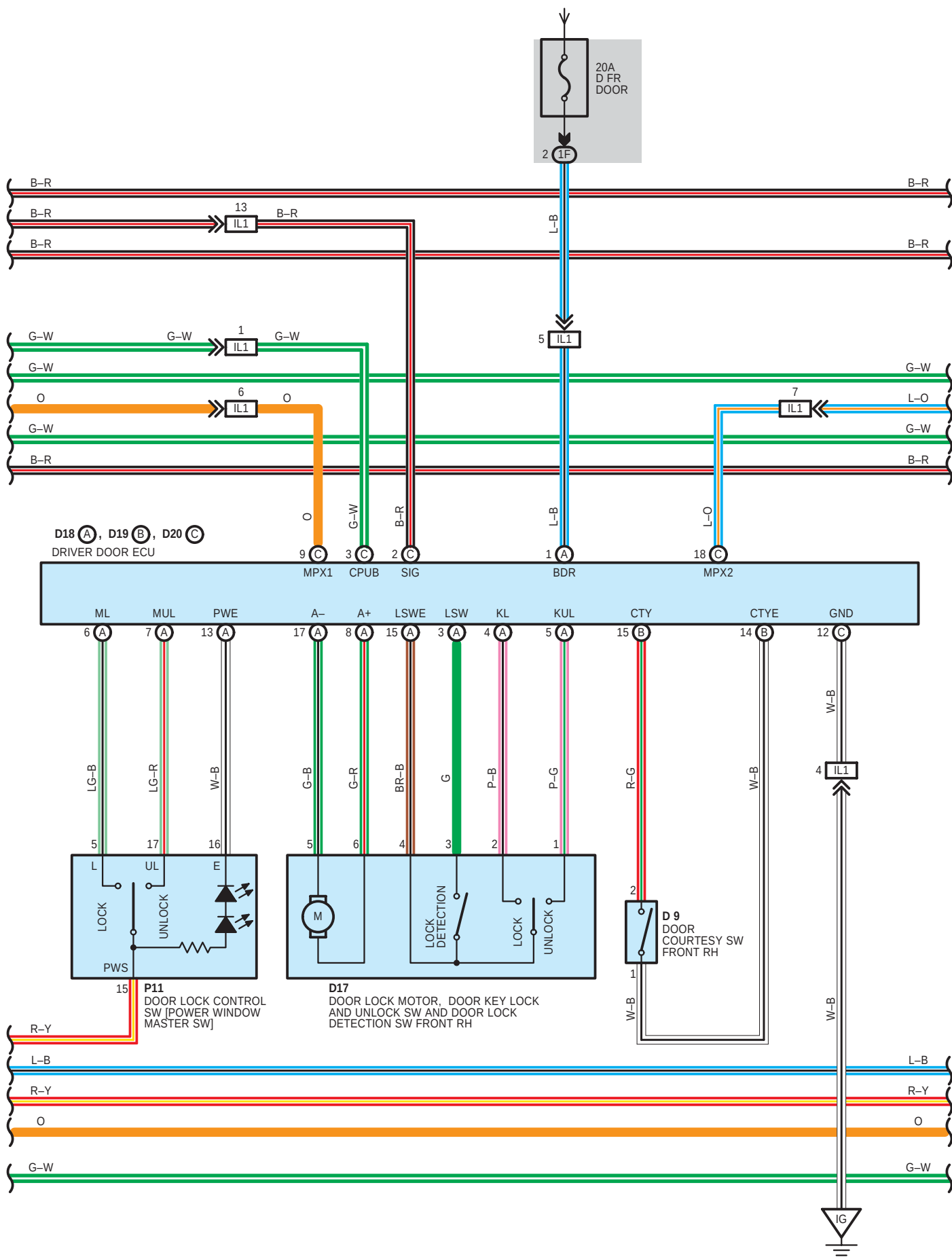
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



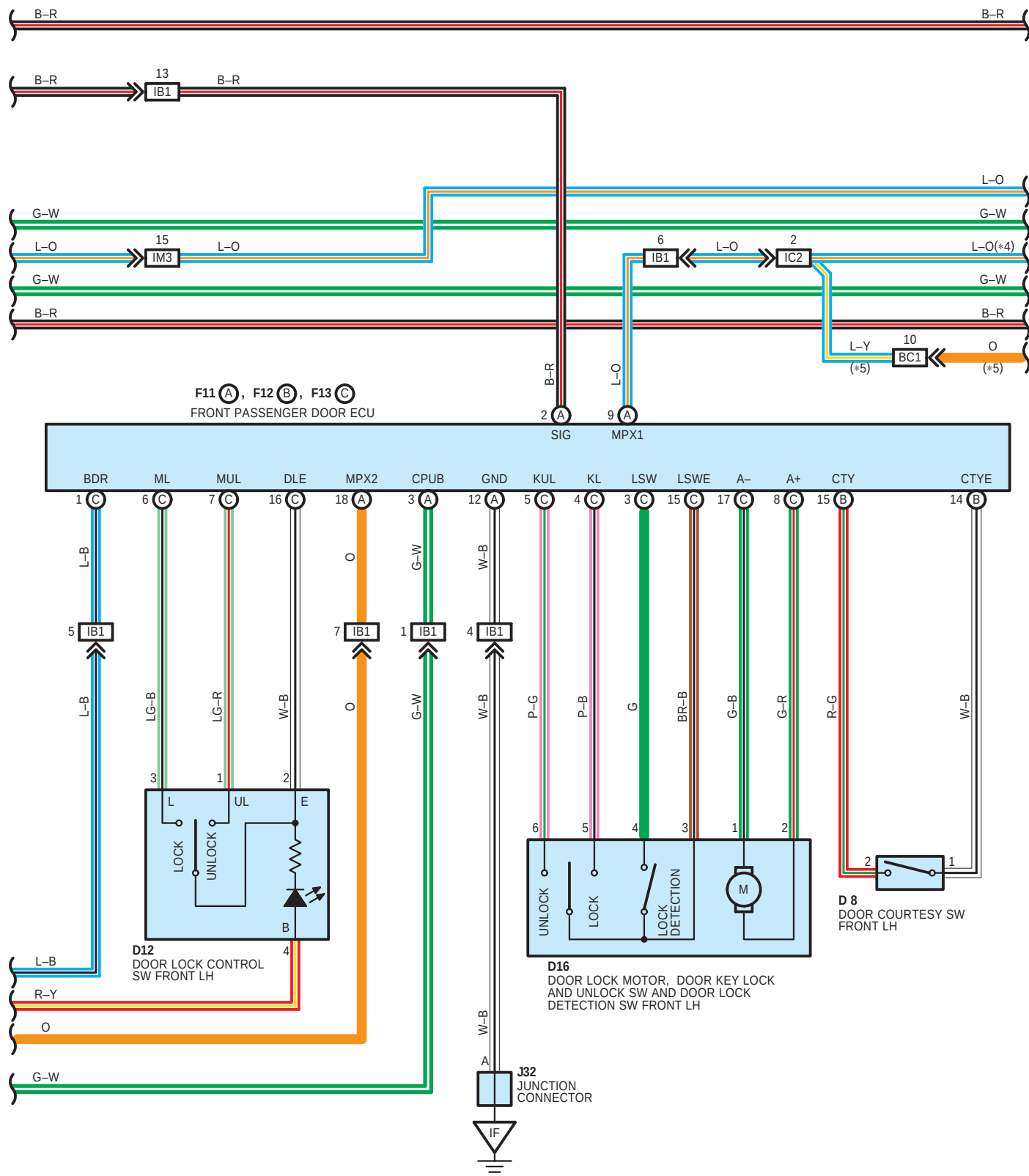
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



FROM POWER SOURCE SYSTEM (SEE PAGE 134)



# THEFT DETERRENT AND DOOR LOCK CONTROL (RHD)

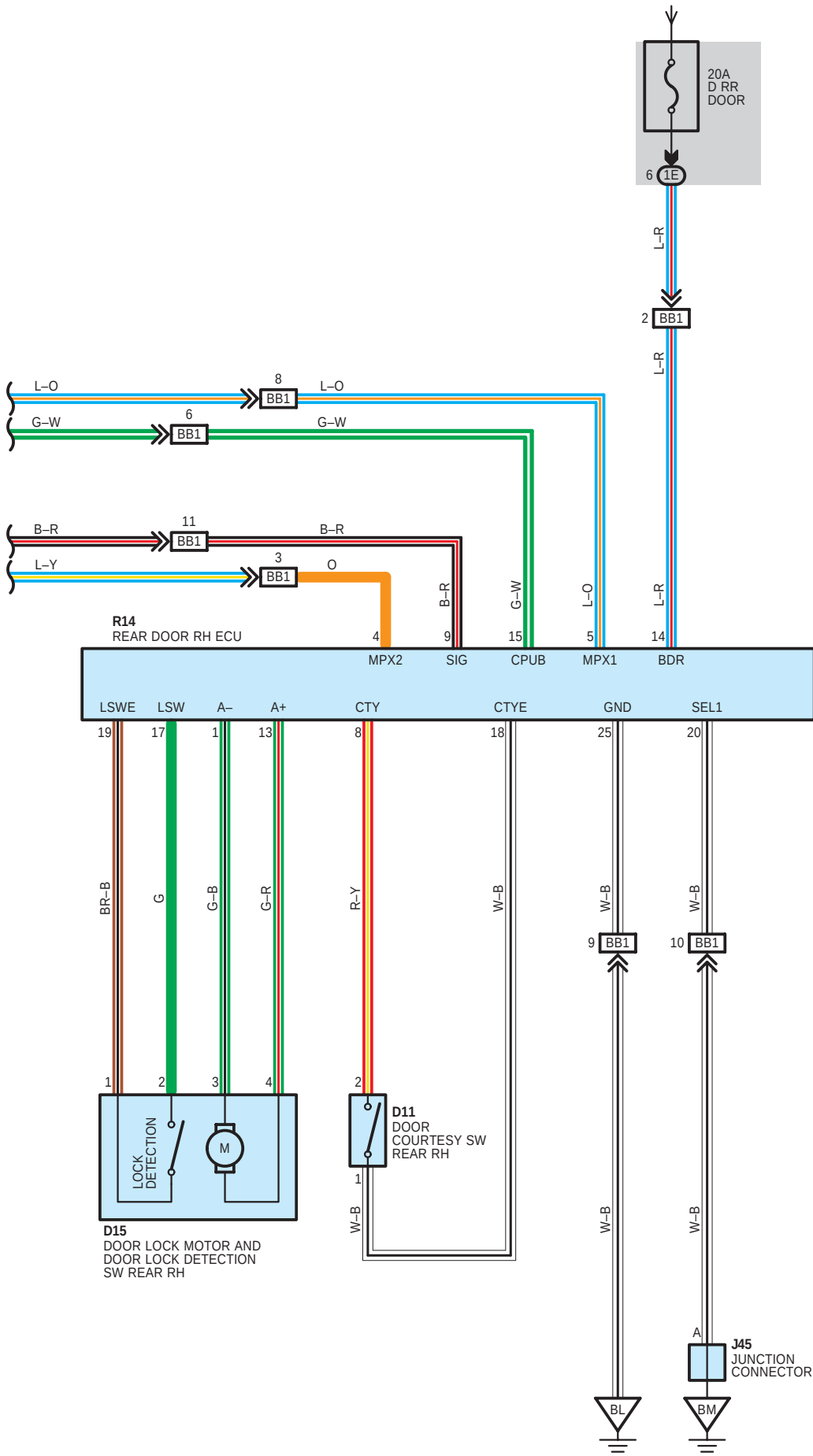




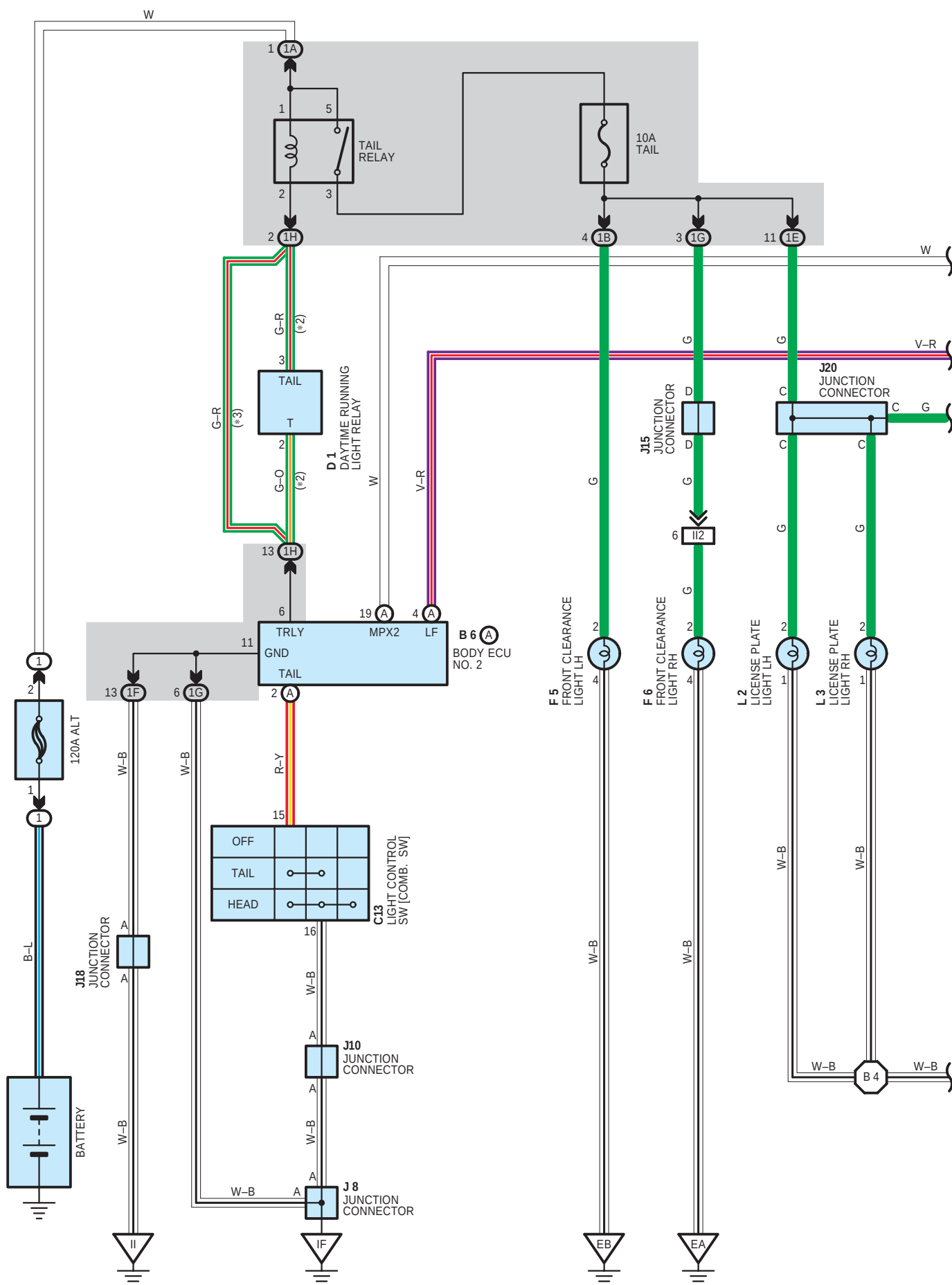


# THEFT DETERRENT AND DOOR LOCK CONTROL (RHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)

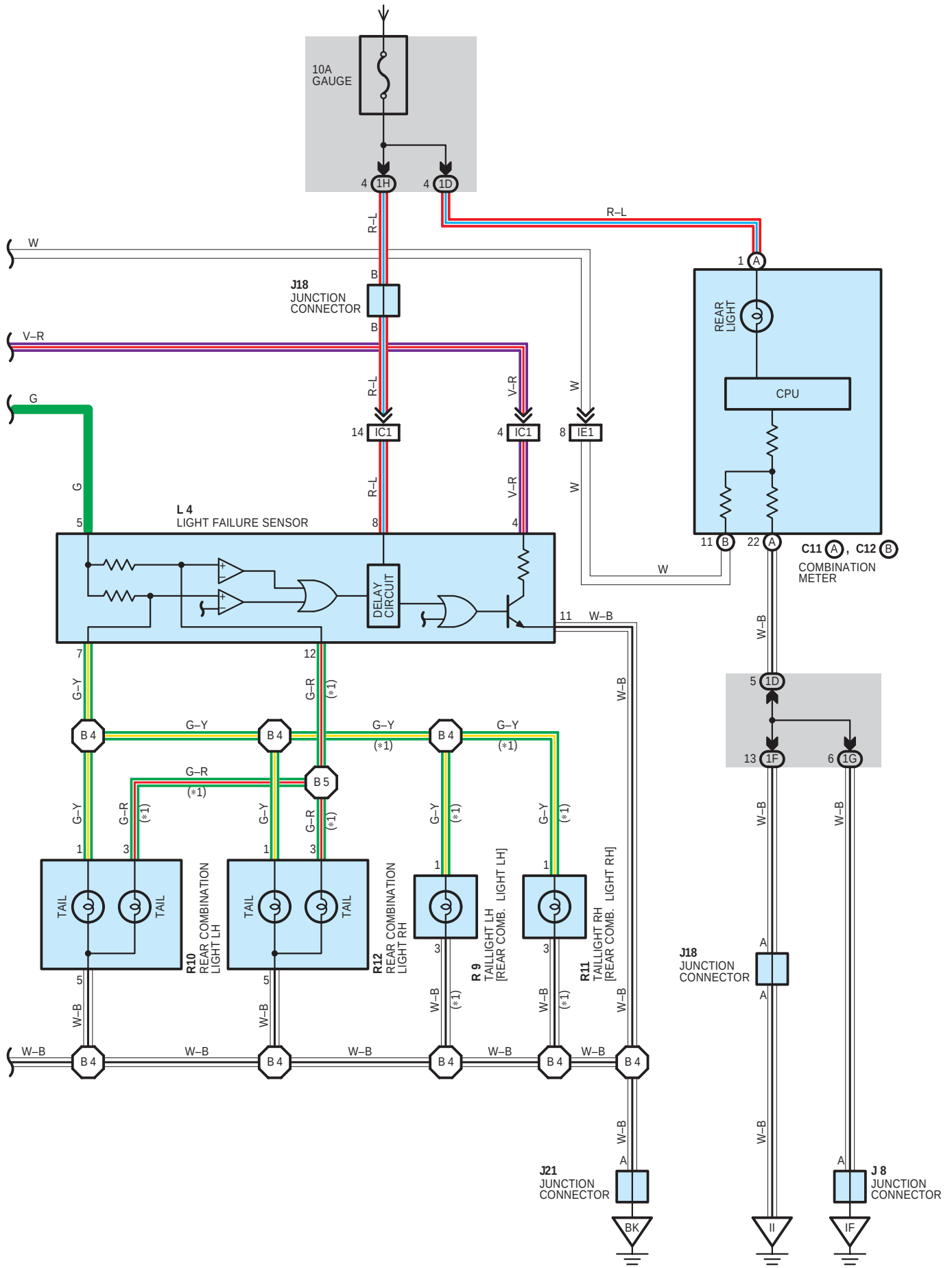


# TAILLIGHT (LHD)

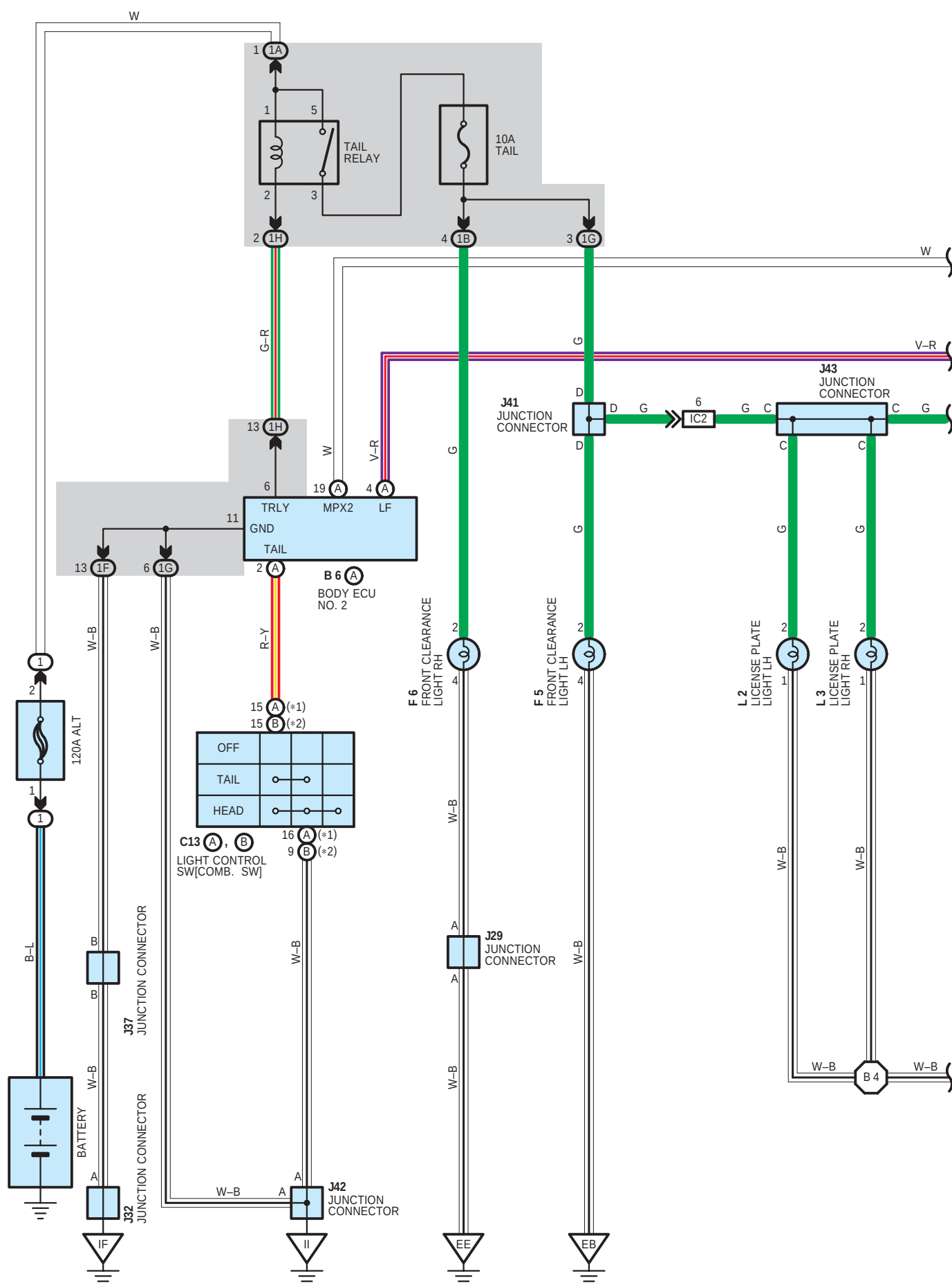


- \* 1 : G. C. C.
- \* 2 : W/ DAYTIME RUNNING LIGHT
- \* 3 : W/O DAYTIME RUNNING LIGHT

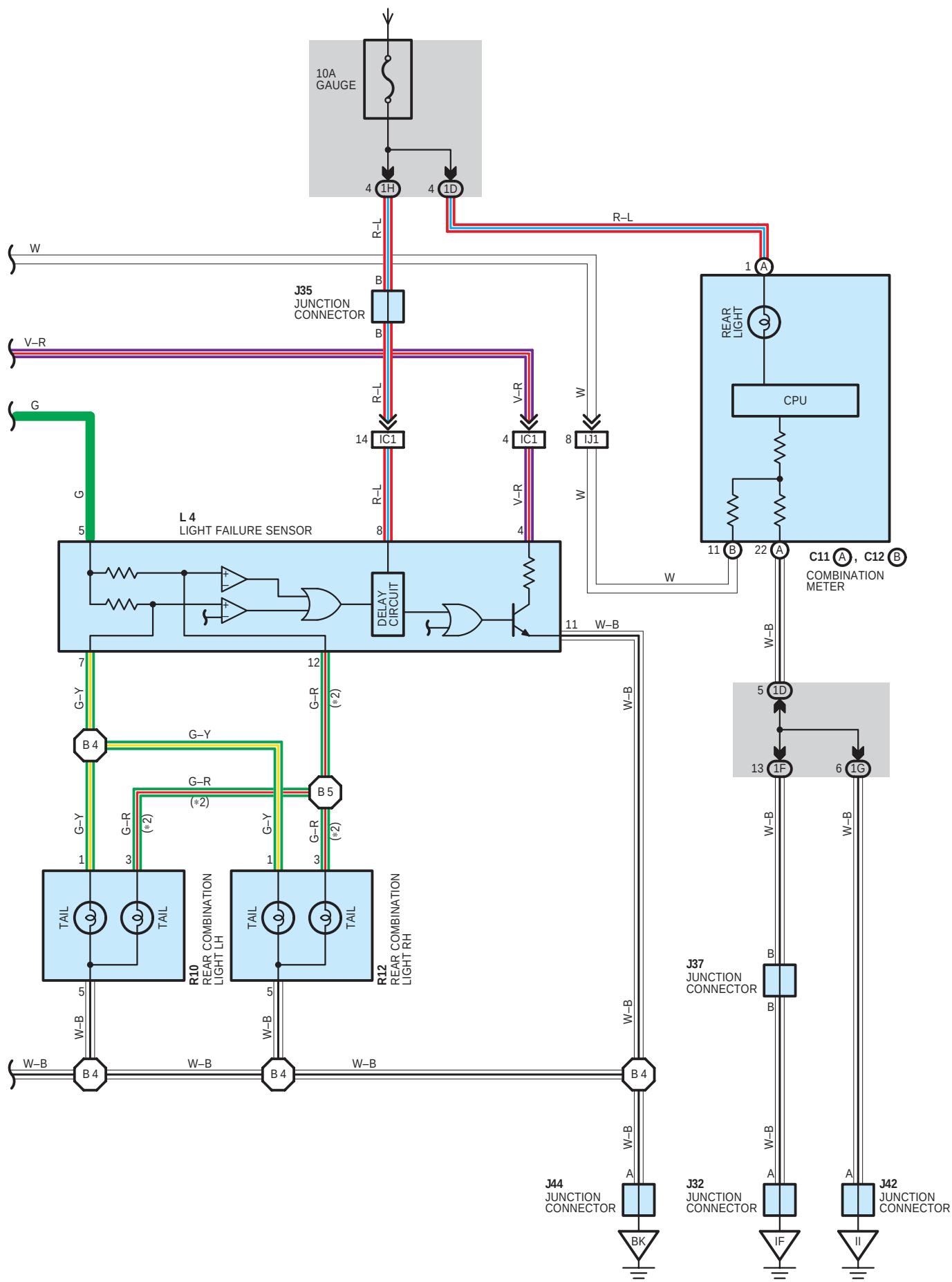
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



# TAILLIGHT (RHD)

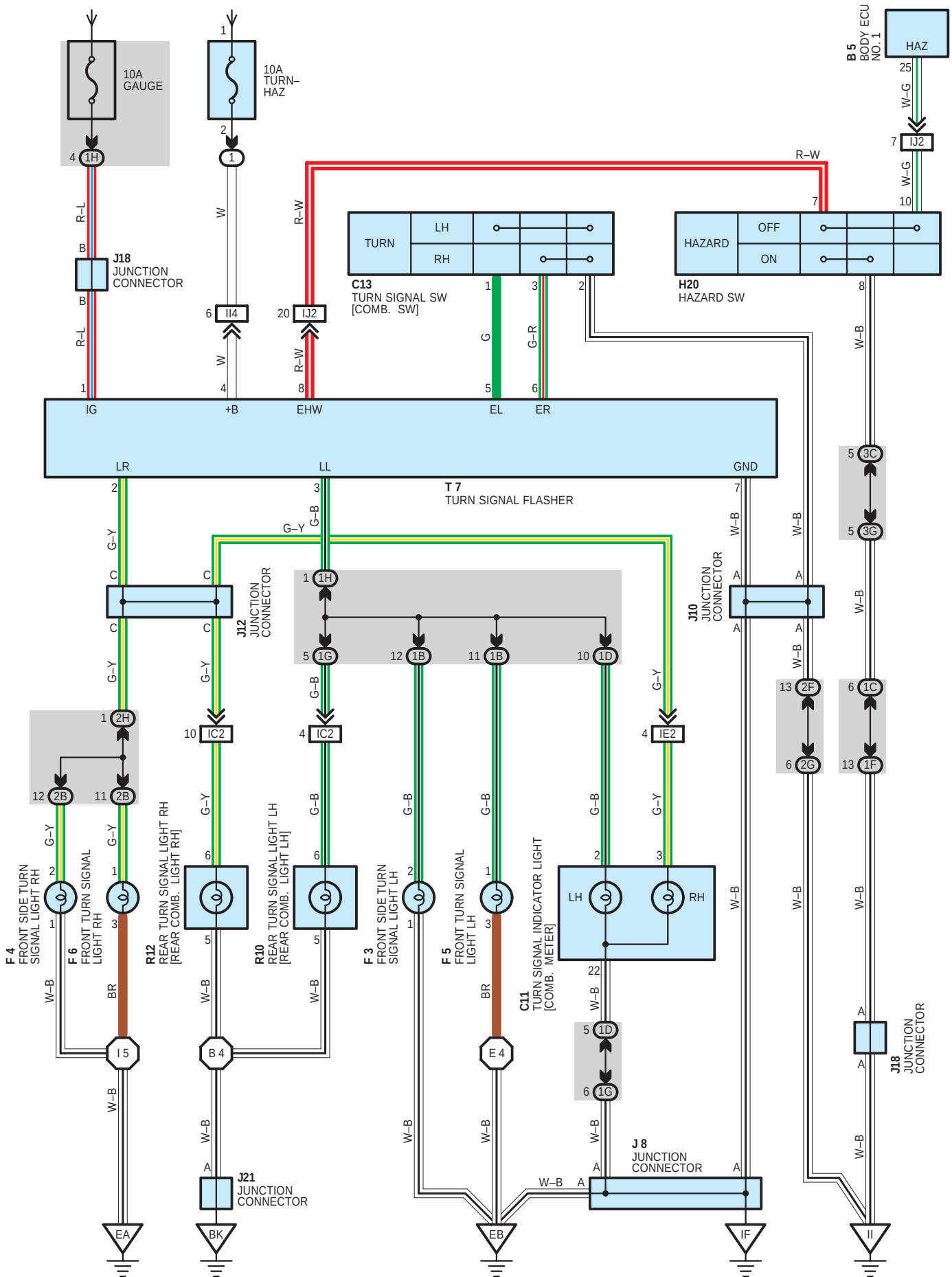


FROM POWER SOURCE SYSTEM (SEE PAGE 134)



## TURN SIGNAL AND HAZARD WARNING LIGHT (LHD)

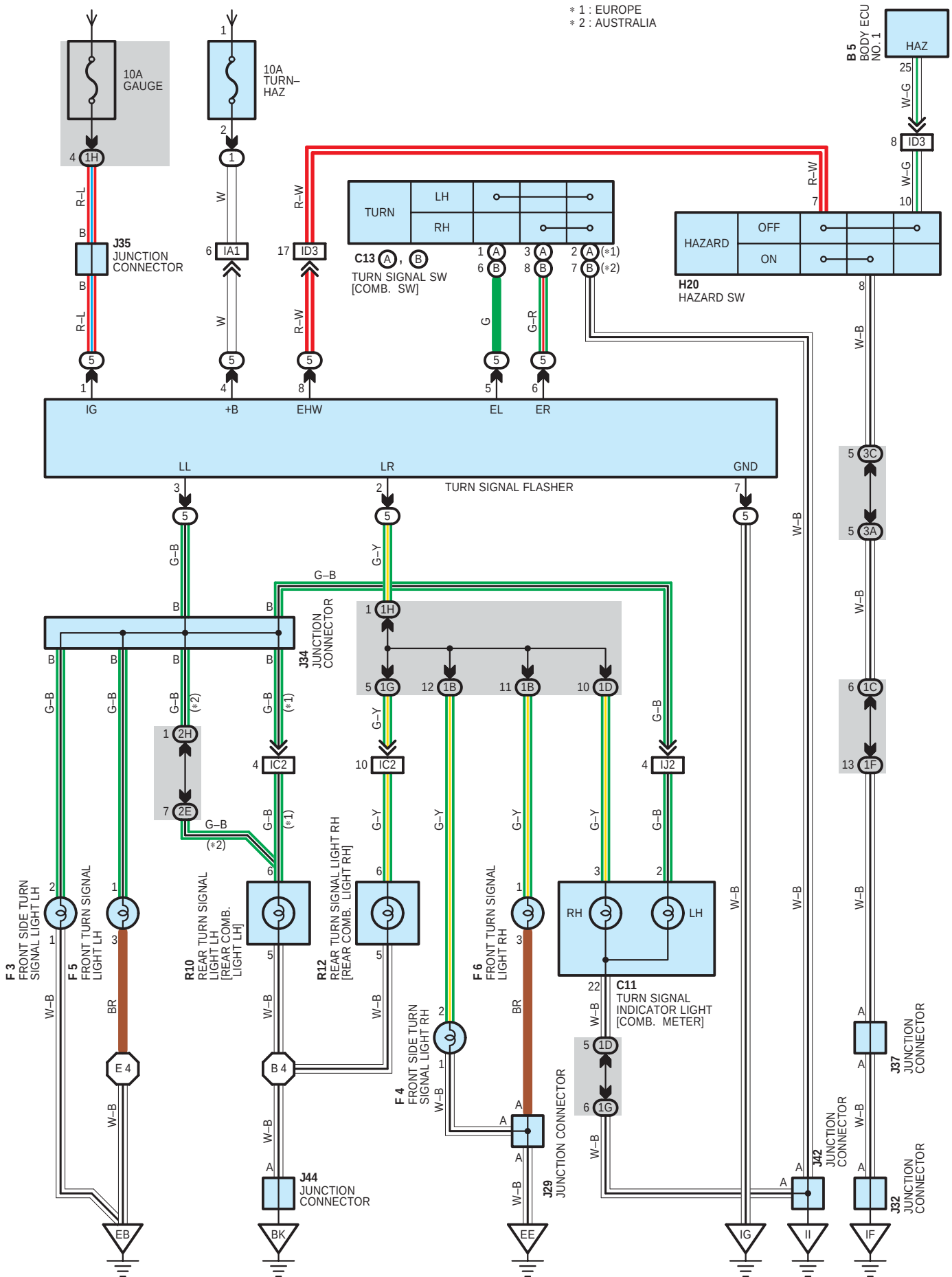
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



## TURN SIGNAL AND HAZARD WARNING LIGHT (RHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)

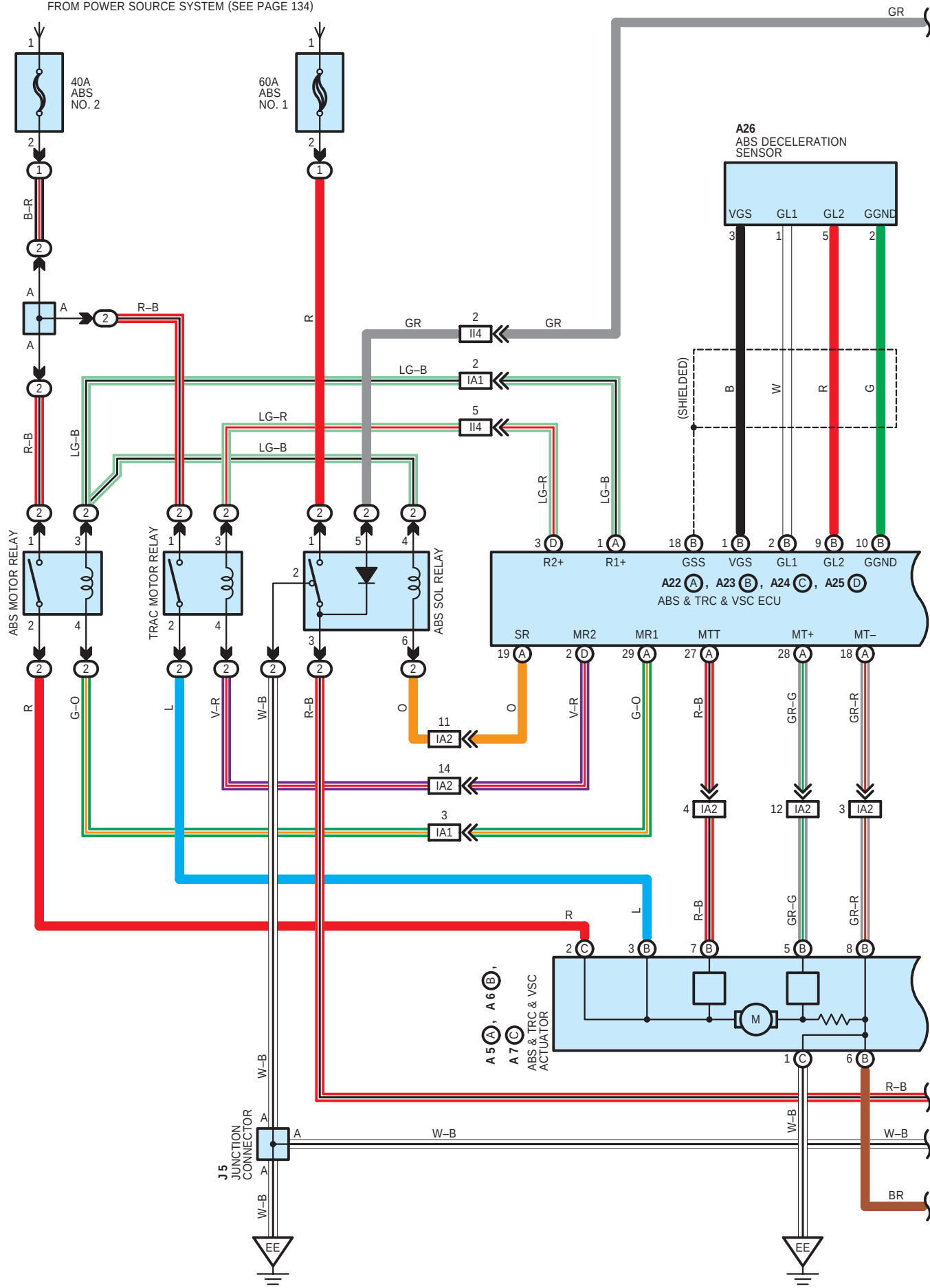
- \* 1 : EUROPE
- \* 2 : AUSTRALIA

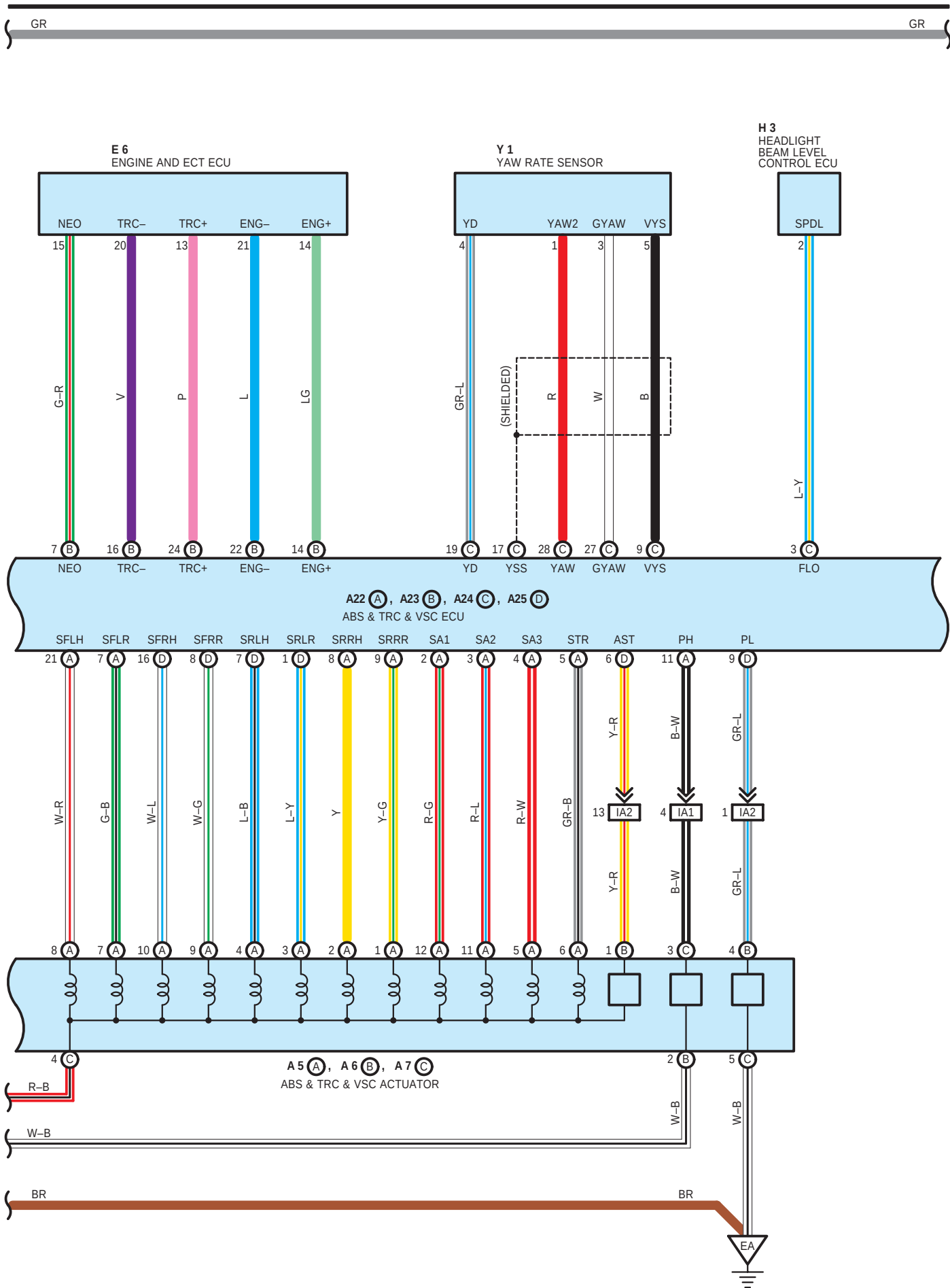




# VSC (LHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



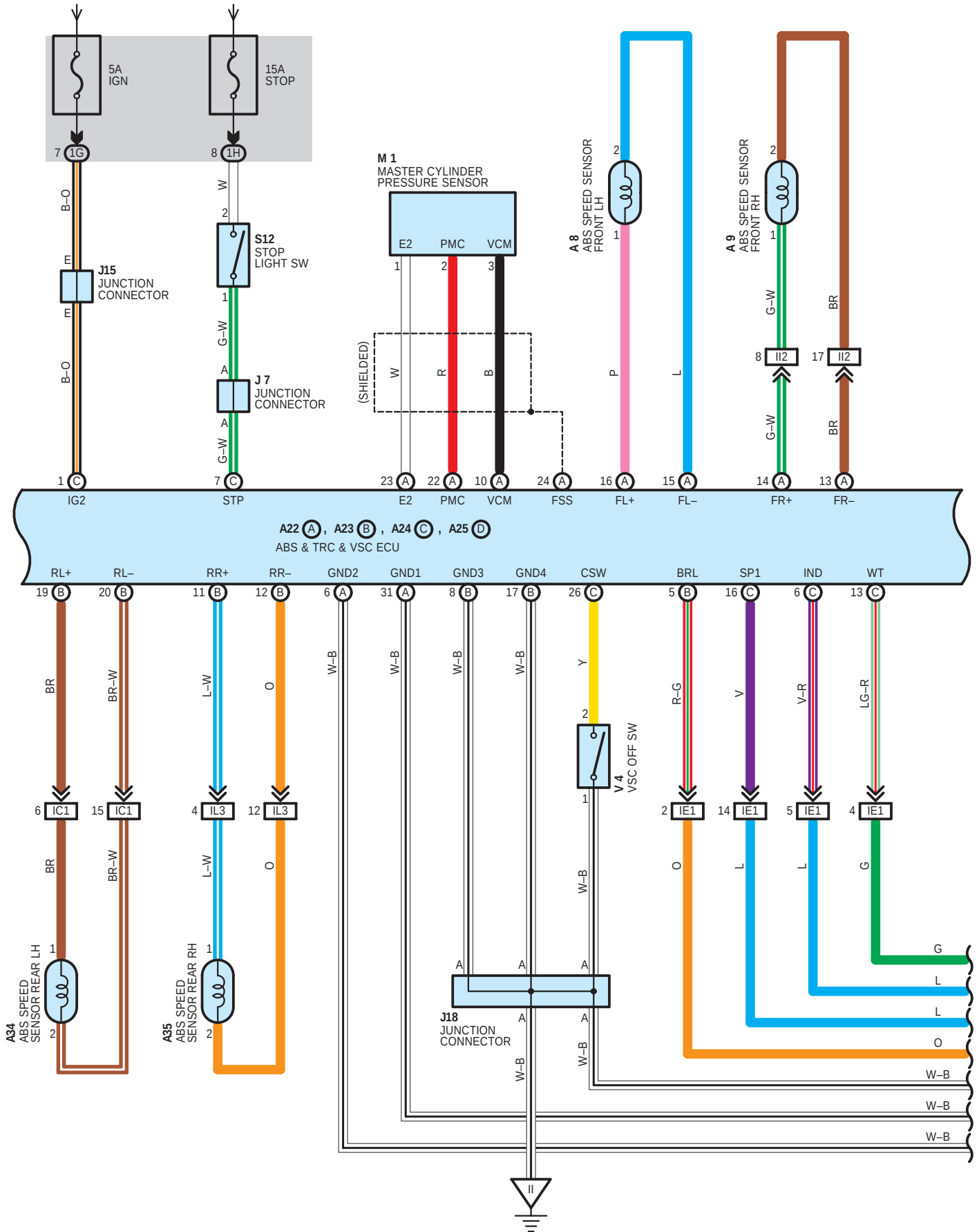


## VSC (LHD)

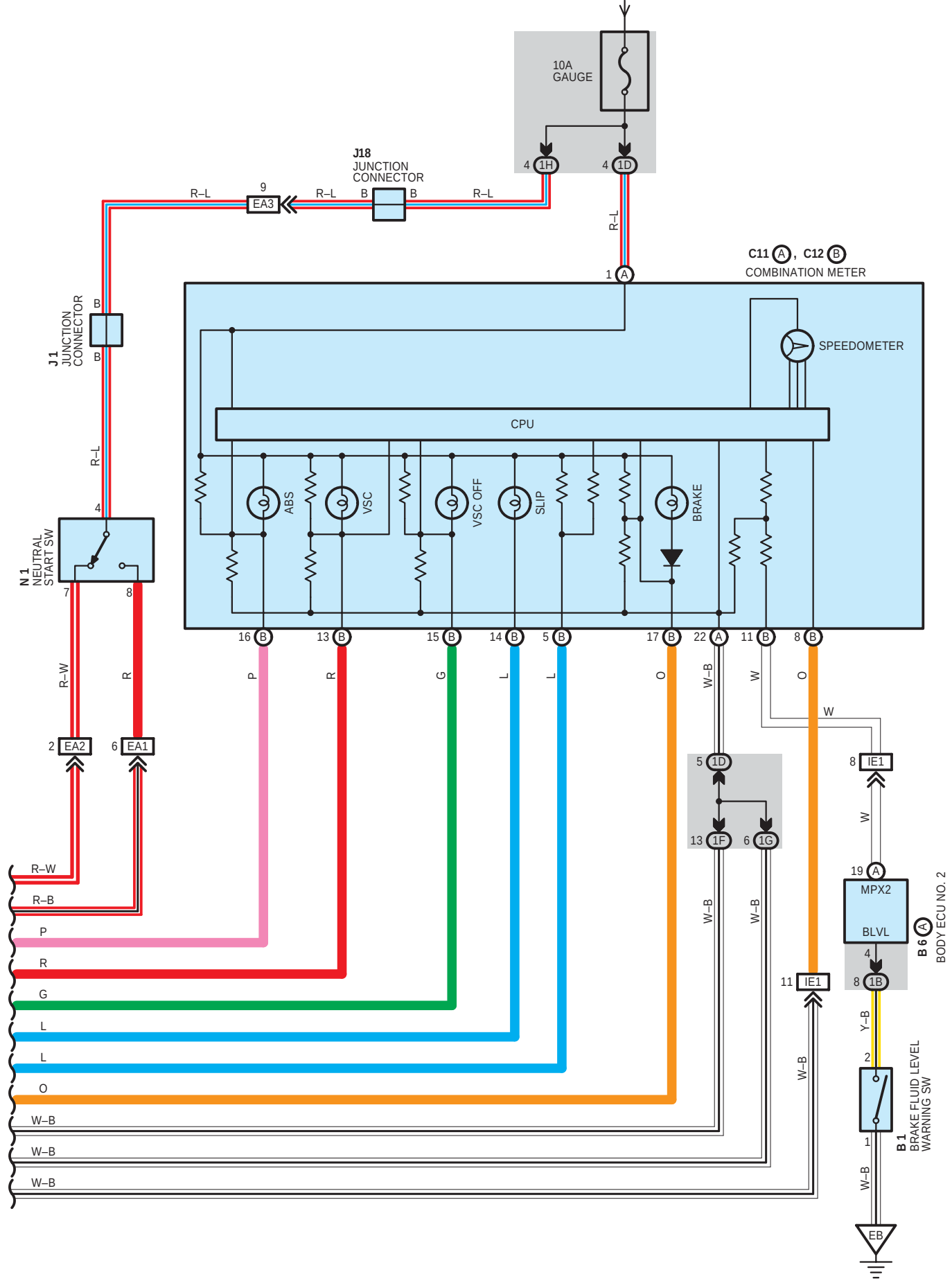
GR

GR

FROM POWER SOURCE SYSTEM (SEE PAGE 134)

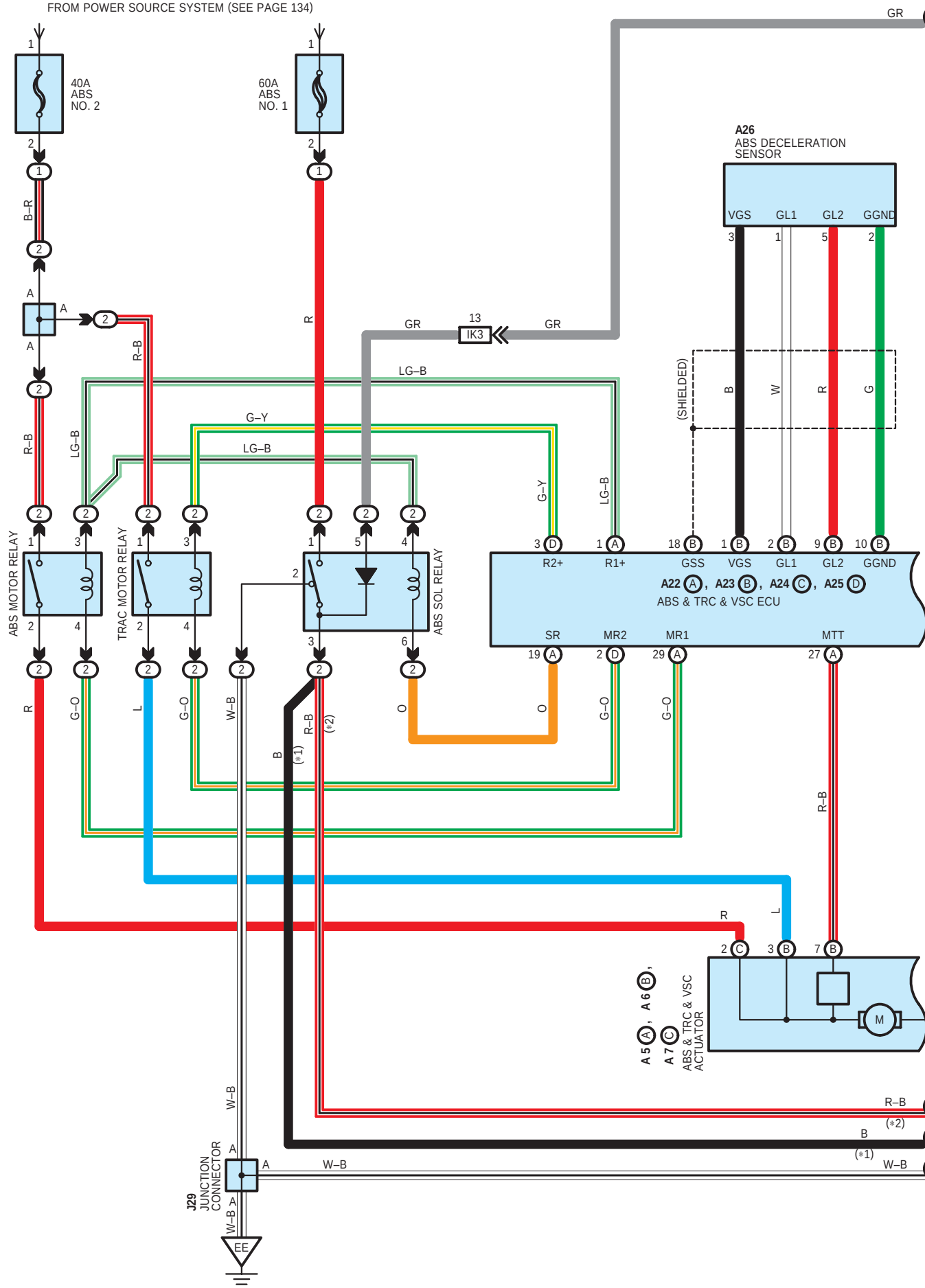


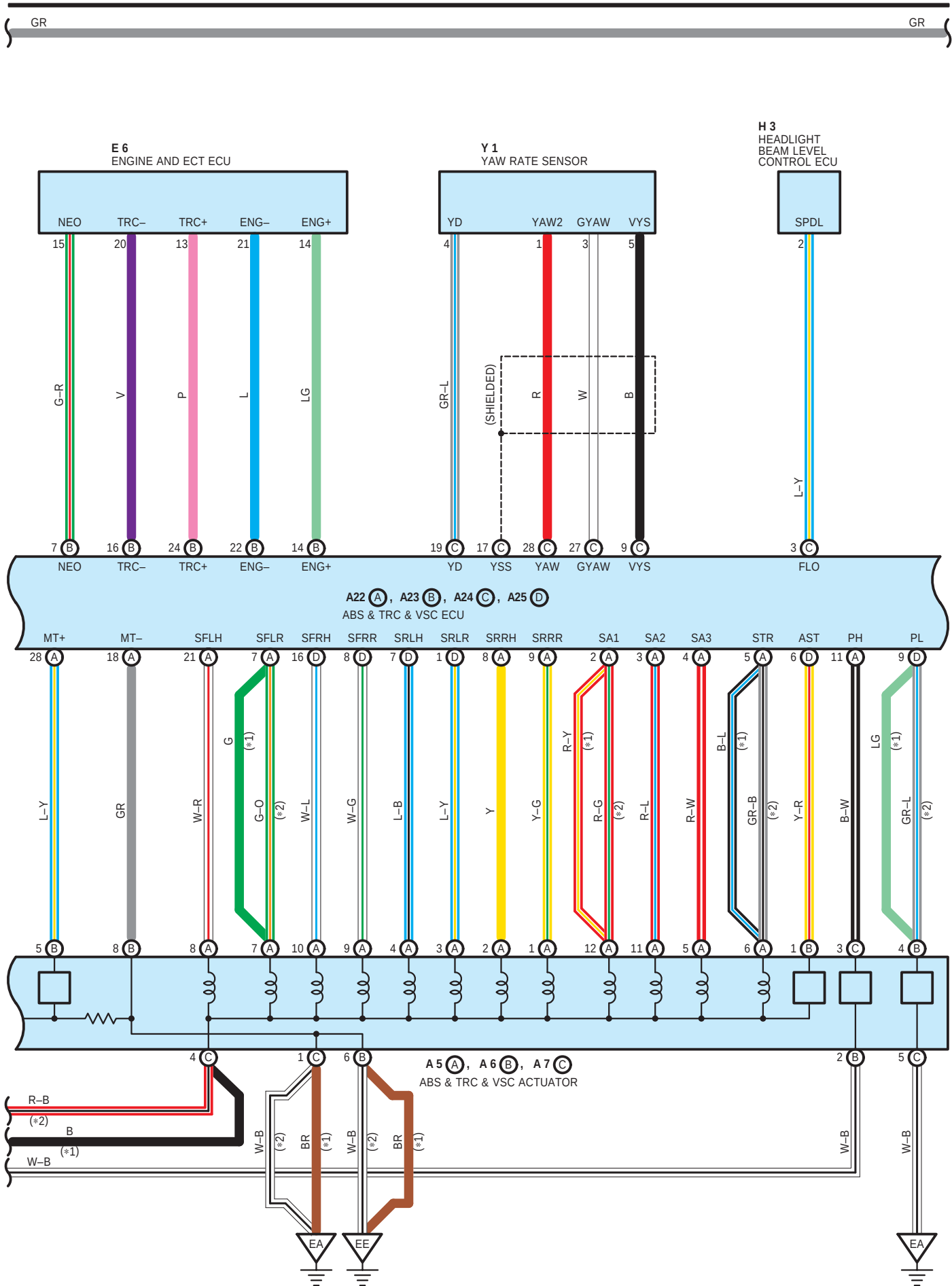




# VSC (RHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)



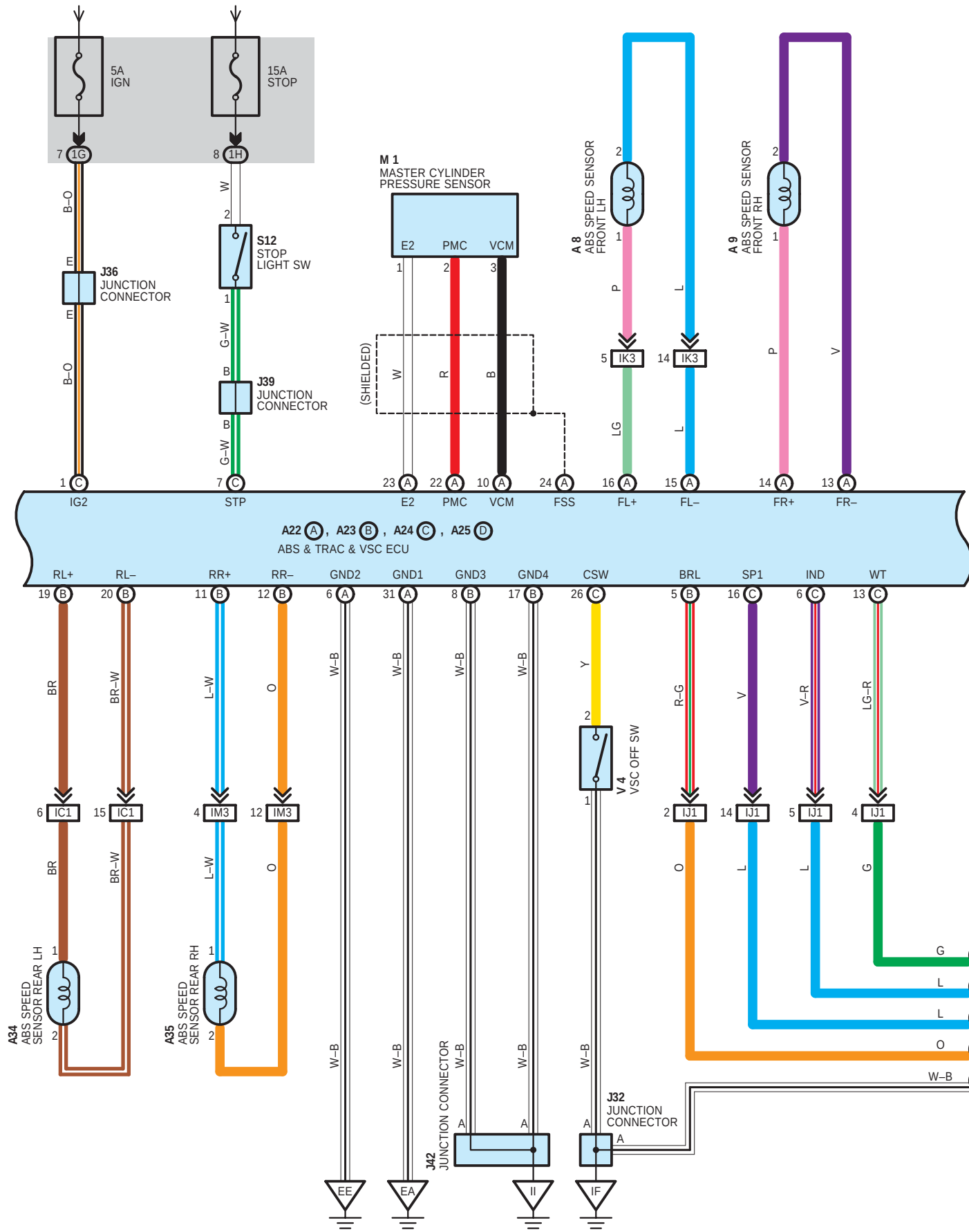


# VSC (RHD)

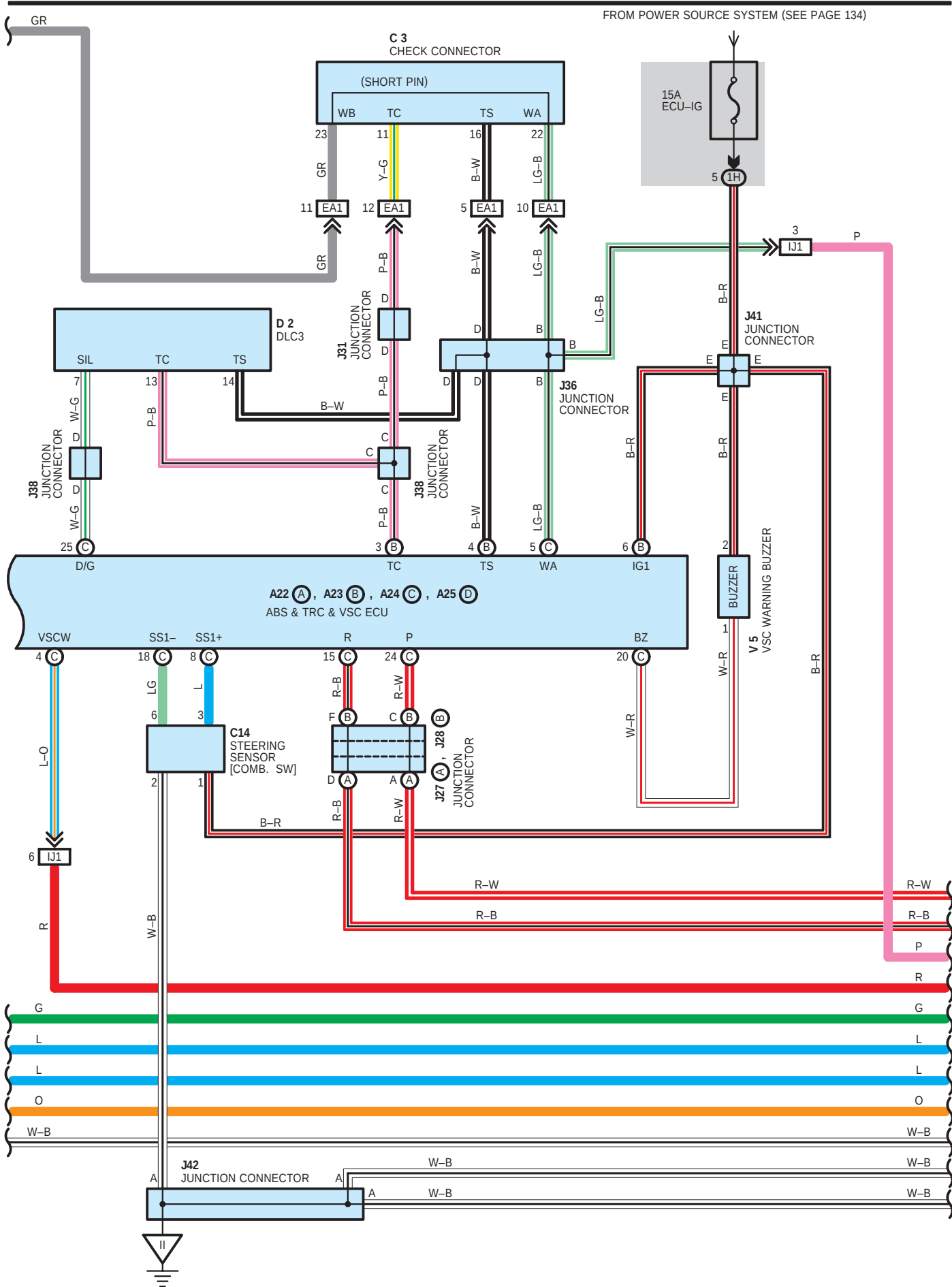
GR

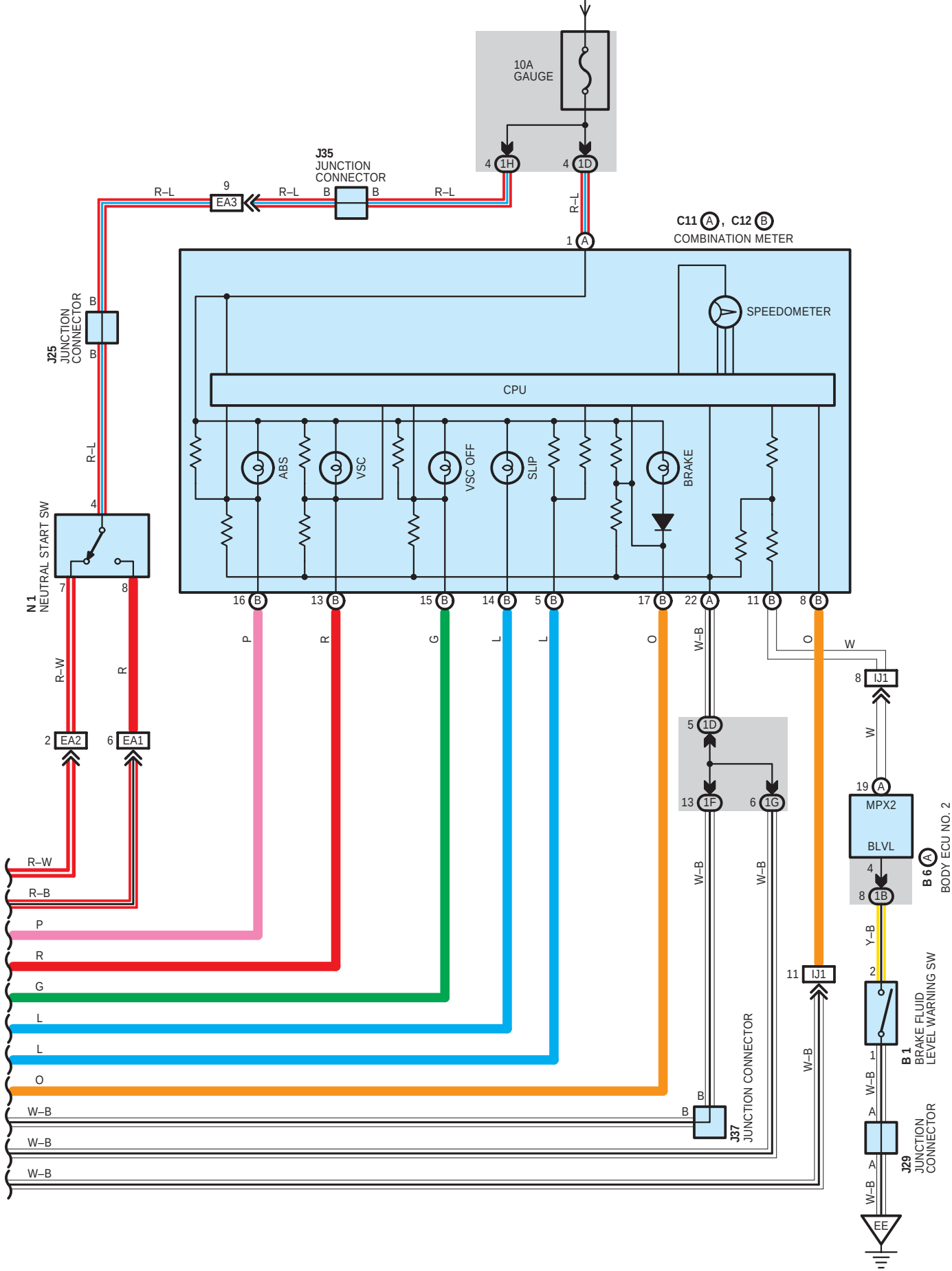
GR

FROM POWER SOURCE SYSTEM (SEE PAGE 134)

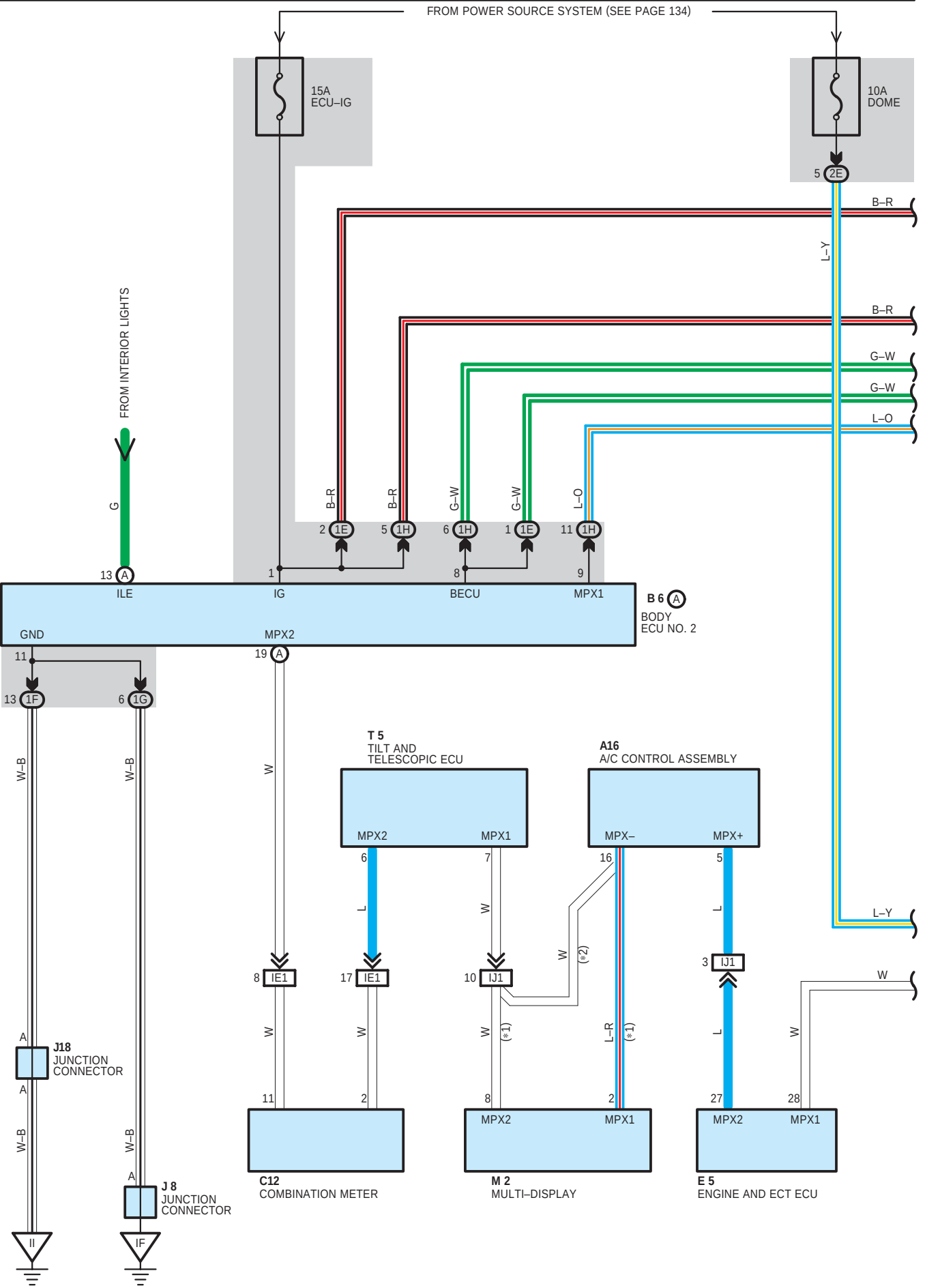


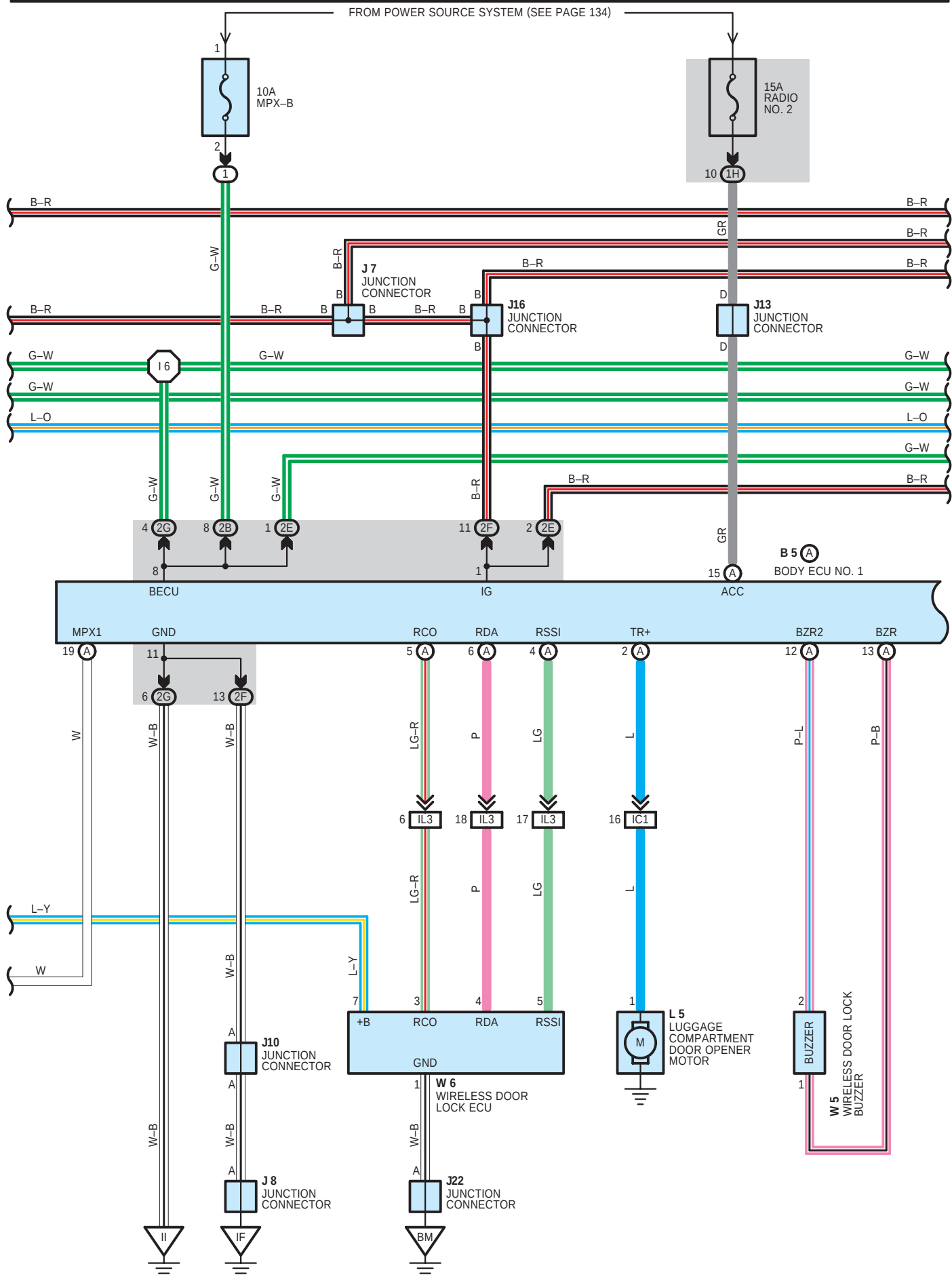




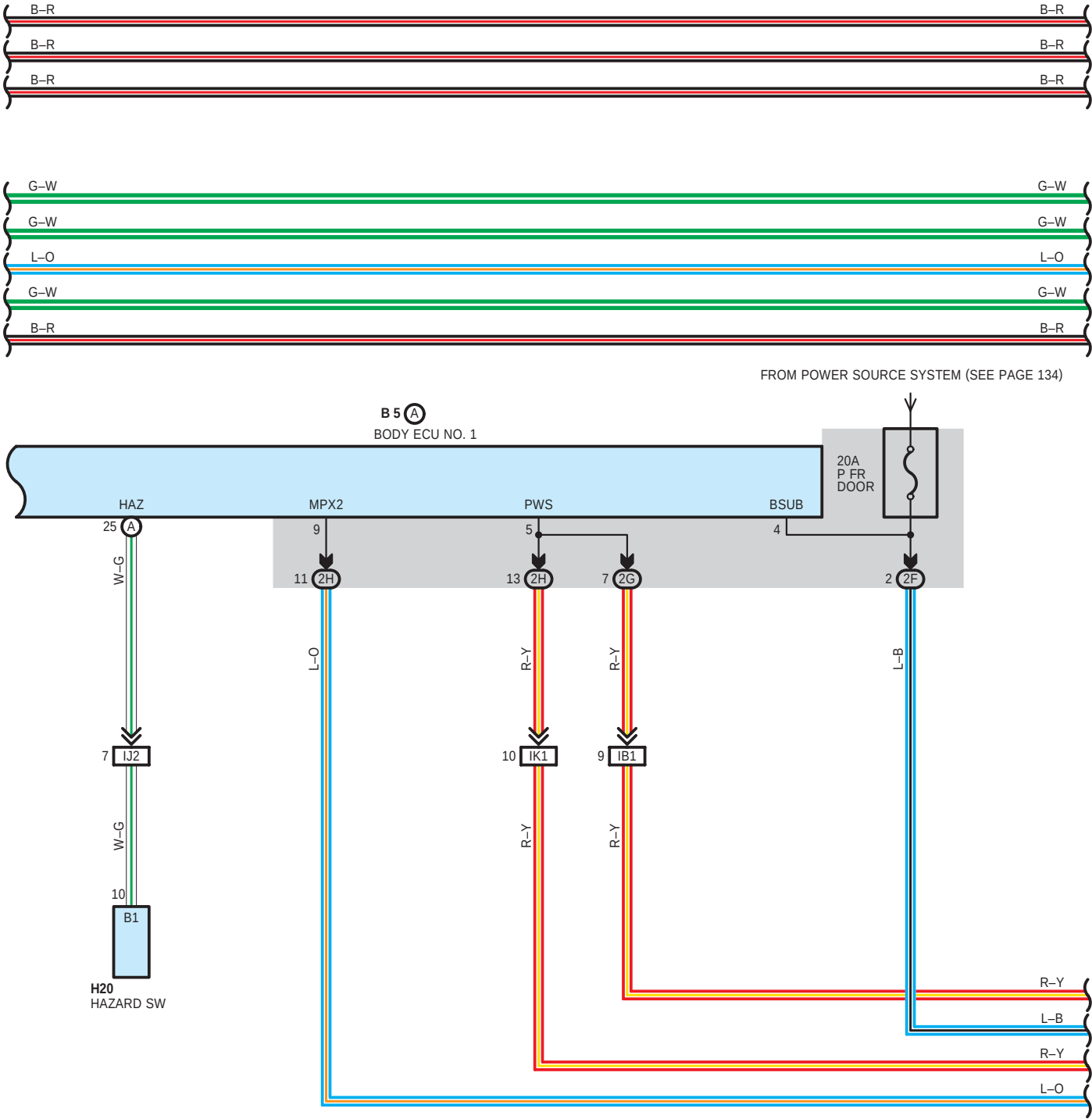


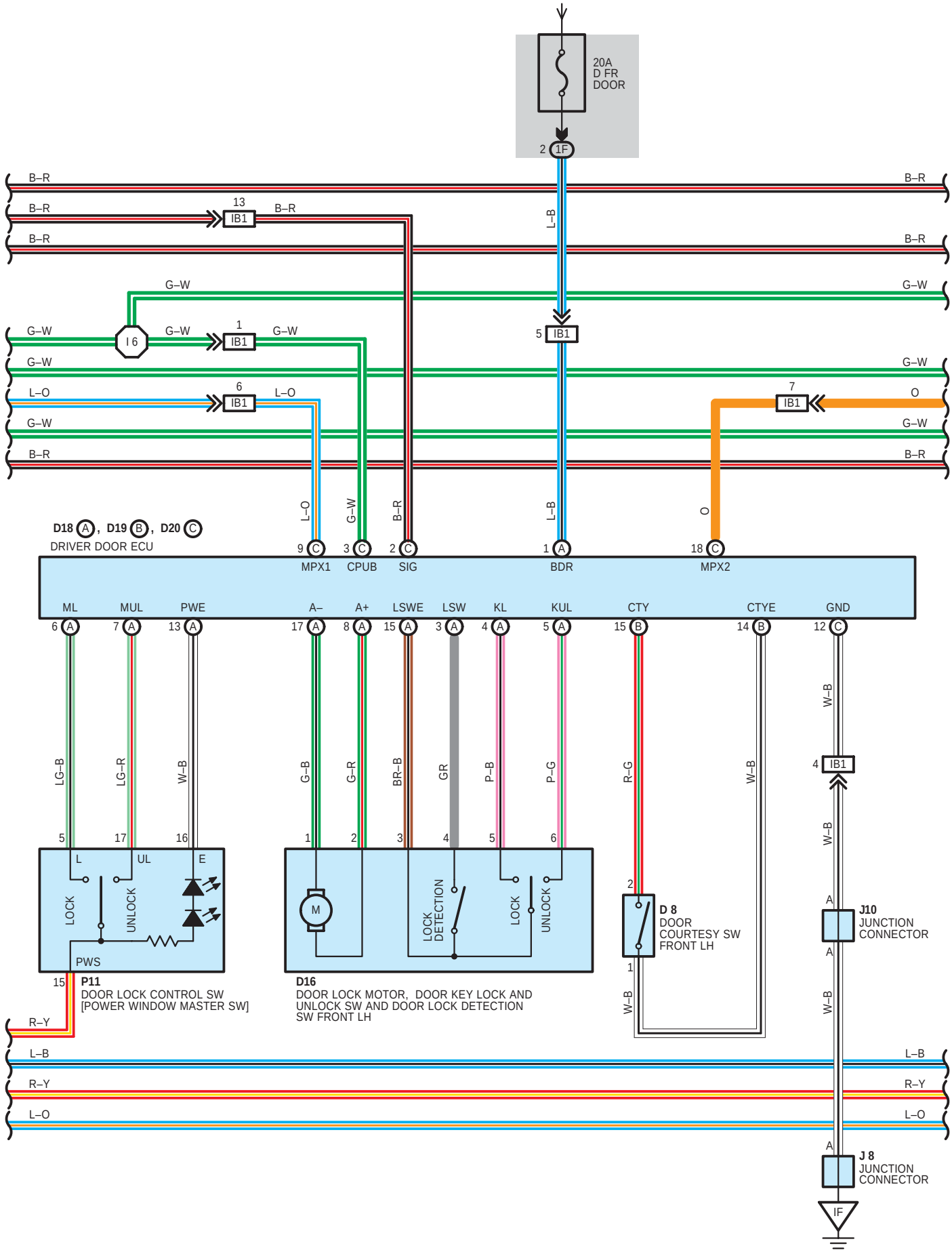
WIRELESS DOOR LOCK CONTROL (LHD)



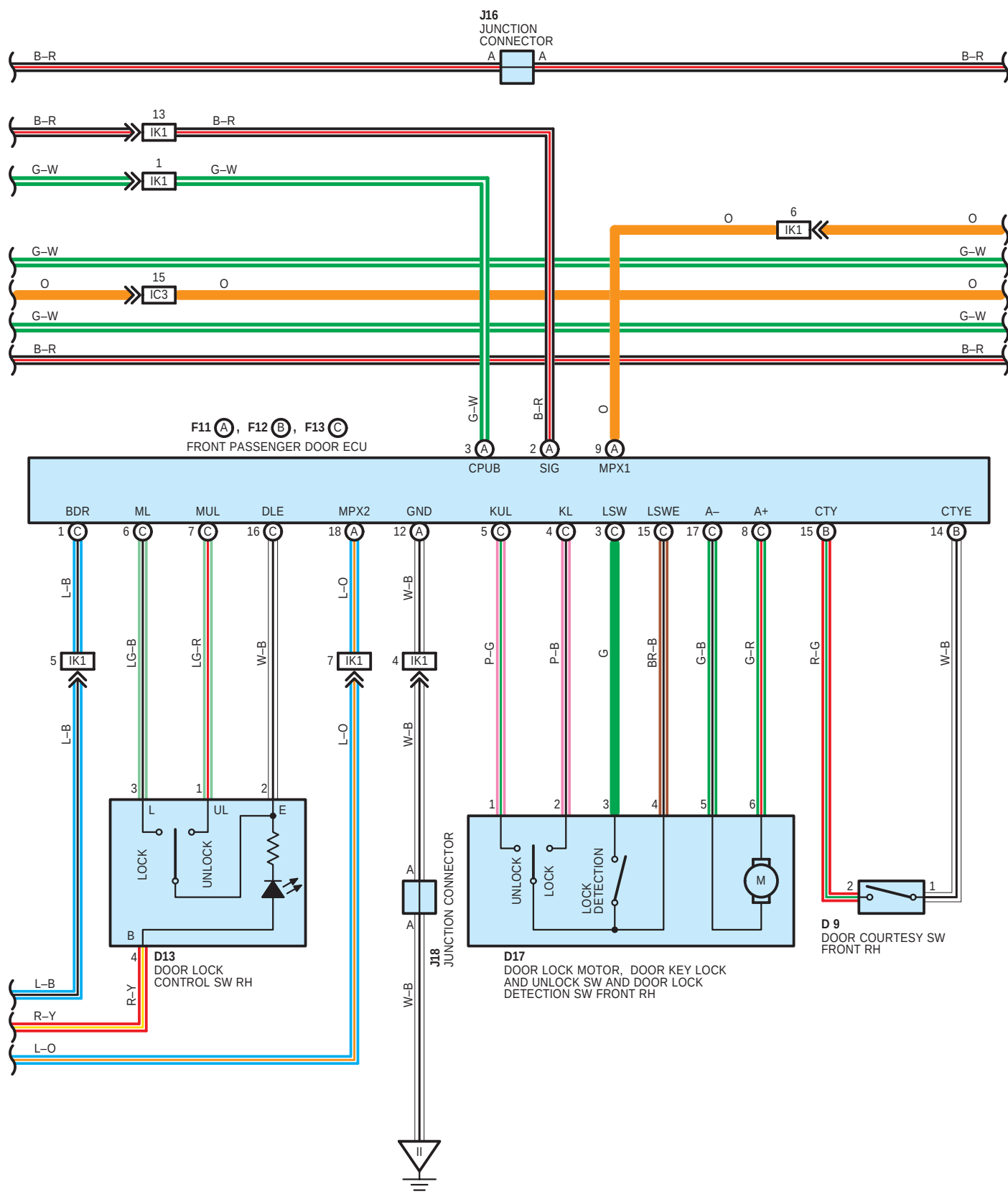


WIRELESS DOOR LOCK CONTROL (LHD)

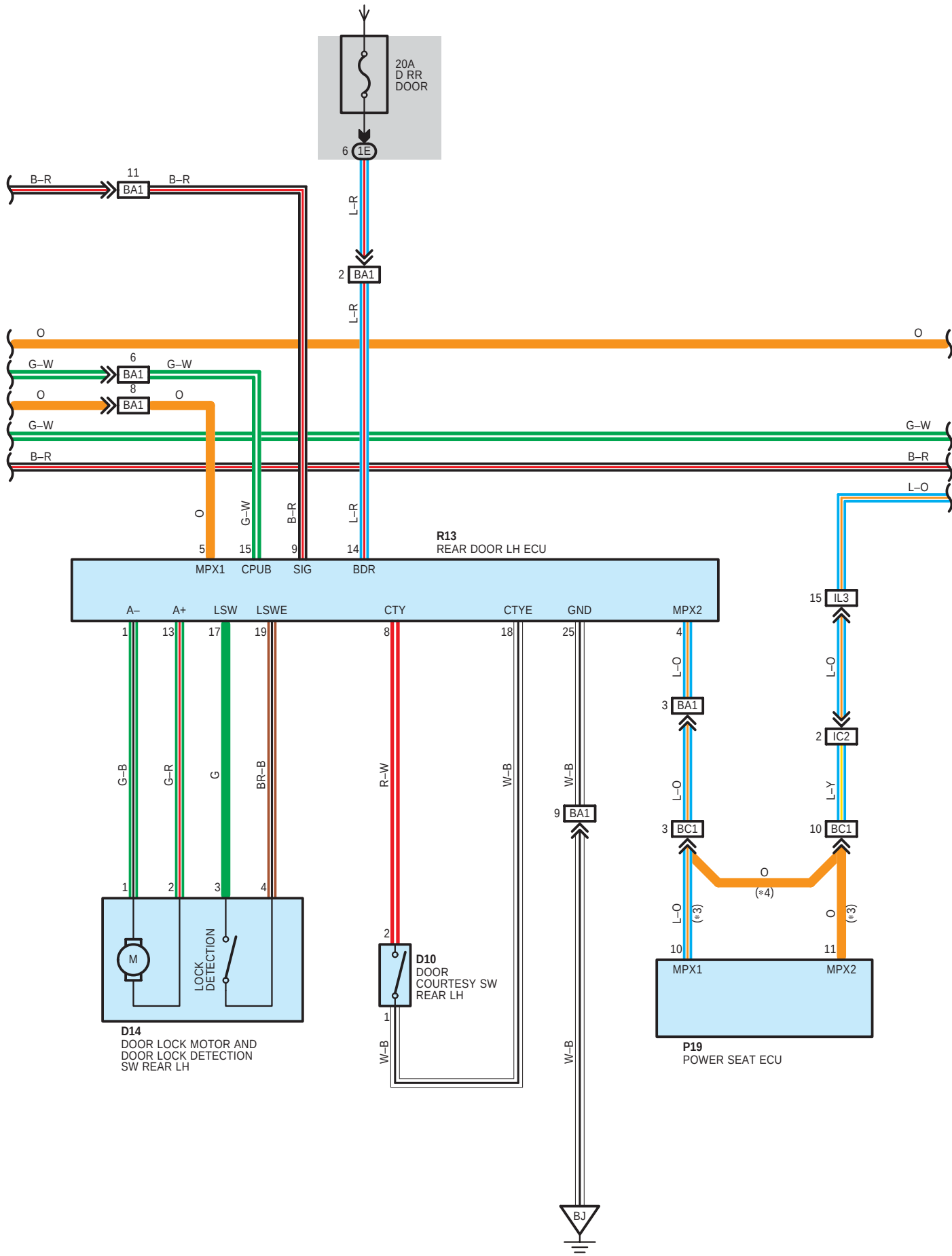




# WIRELESS DOOR LOCK CONTROL (LHD)



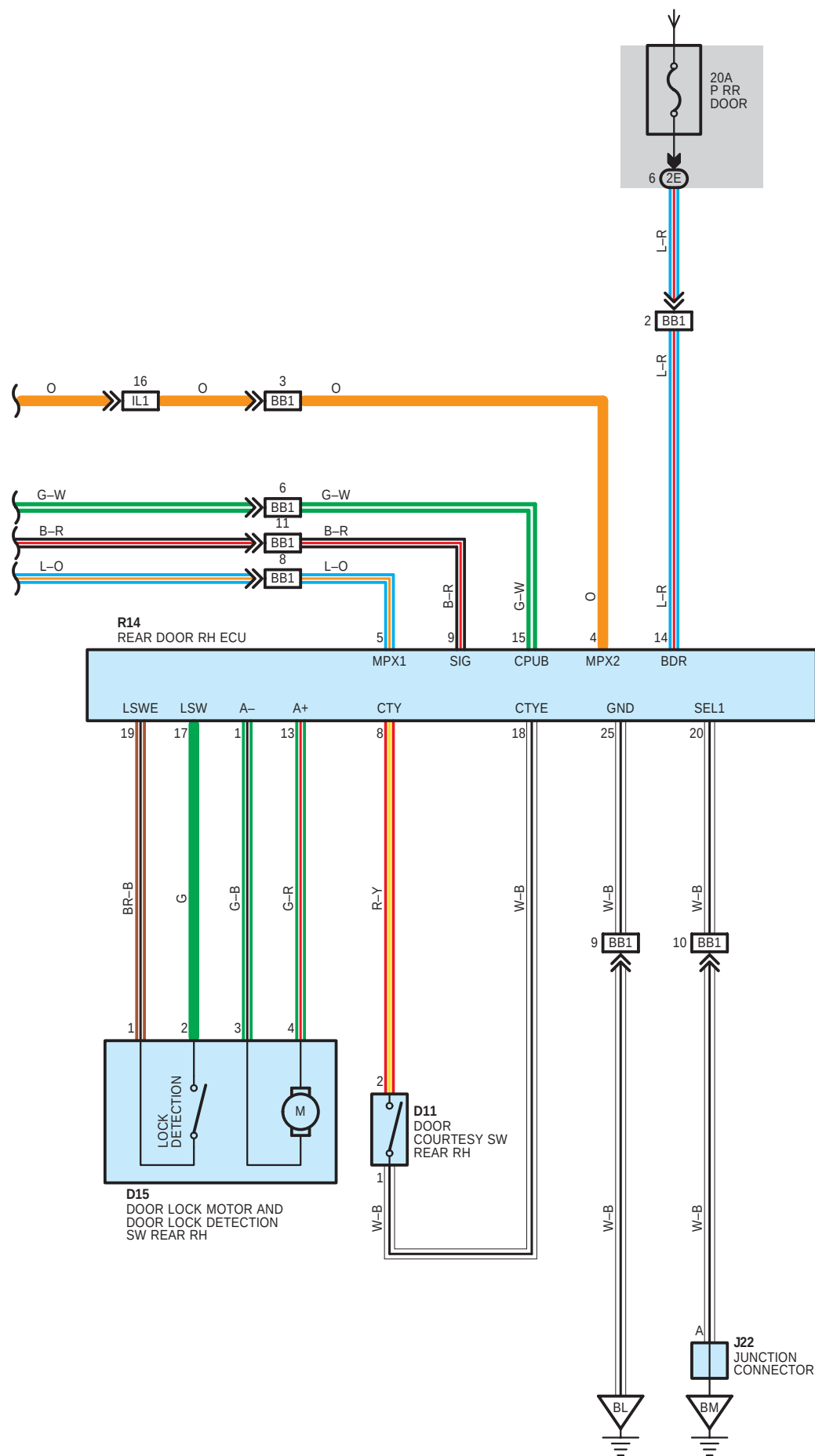
FROM POWER SOURCE SYSTEM (SEE PAGE 134)



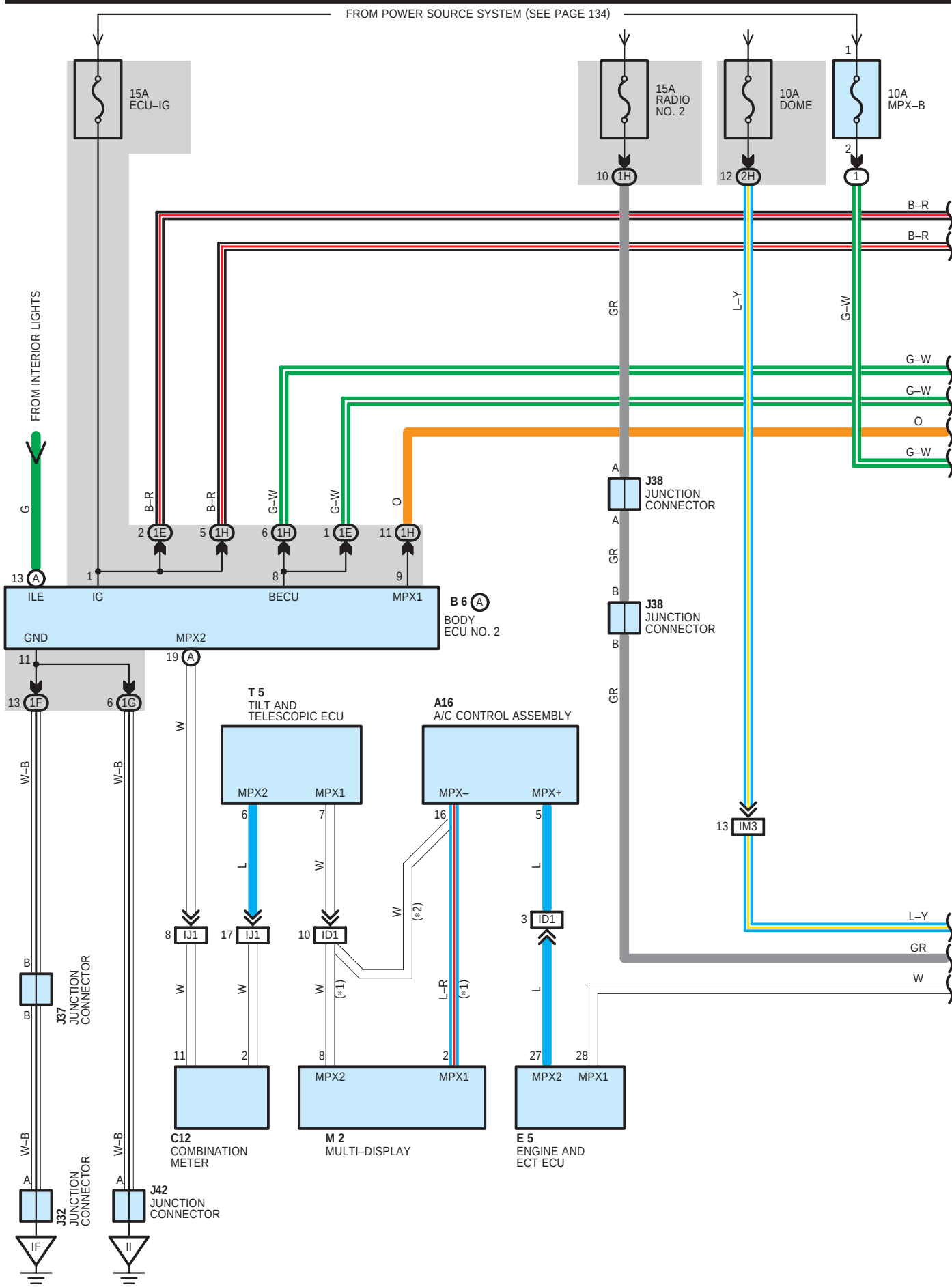


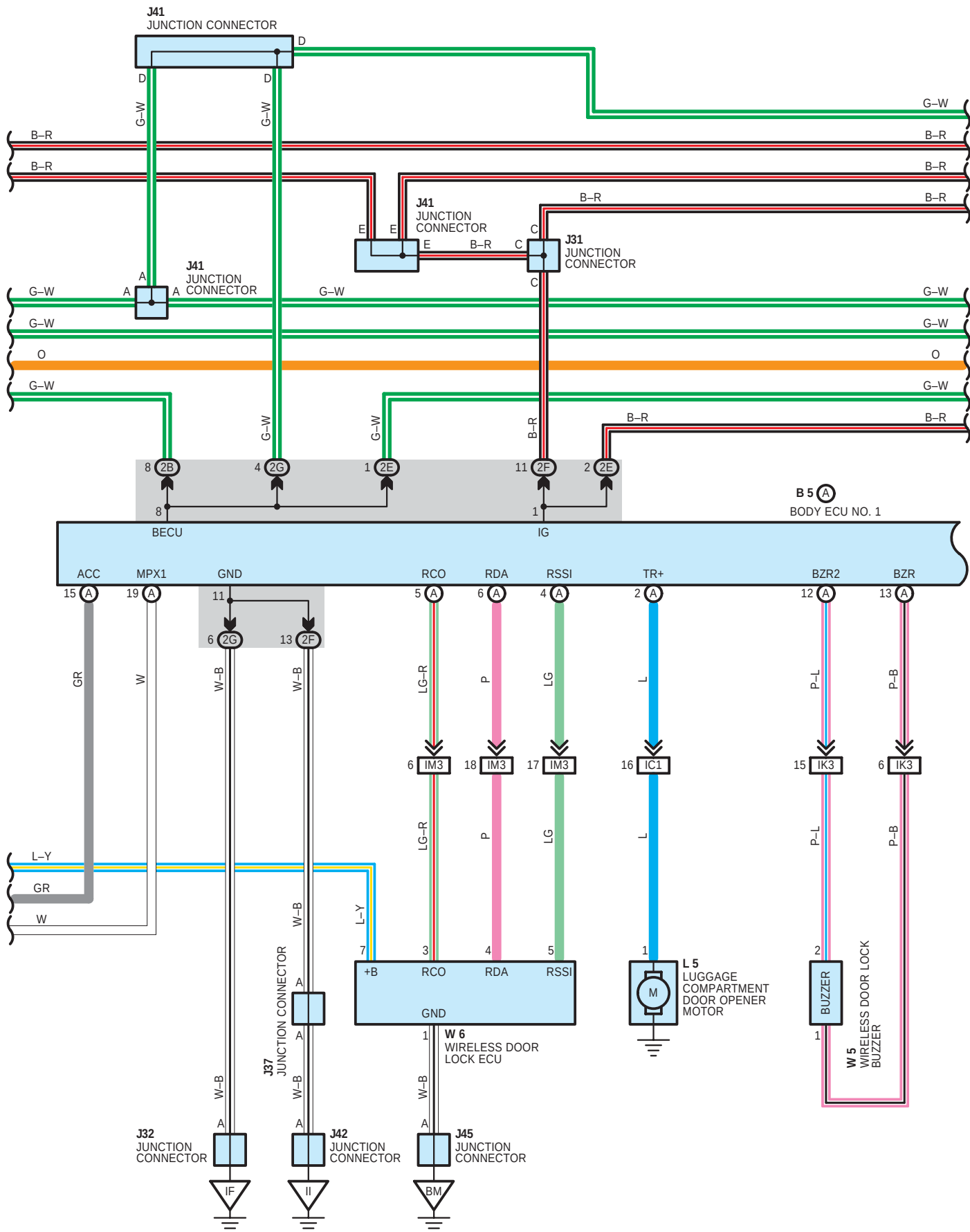
# WIRELESS DOOR LOCK CONTROL (LHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)

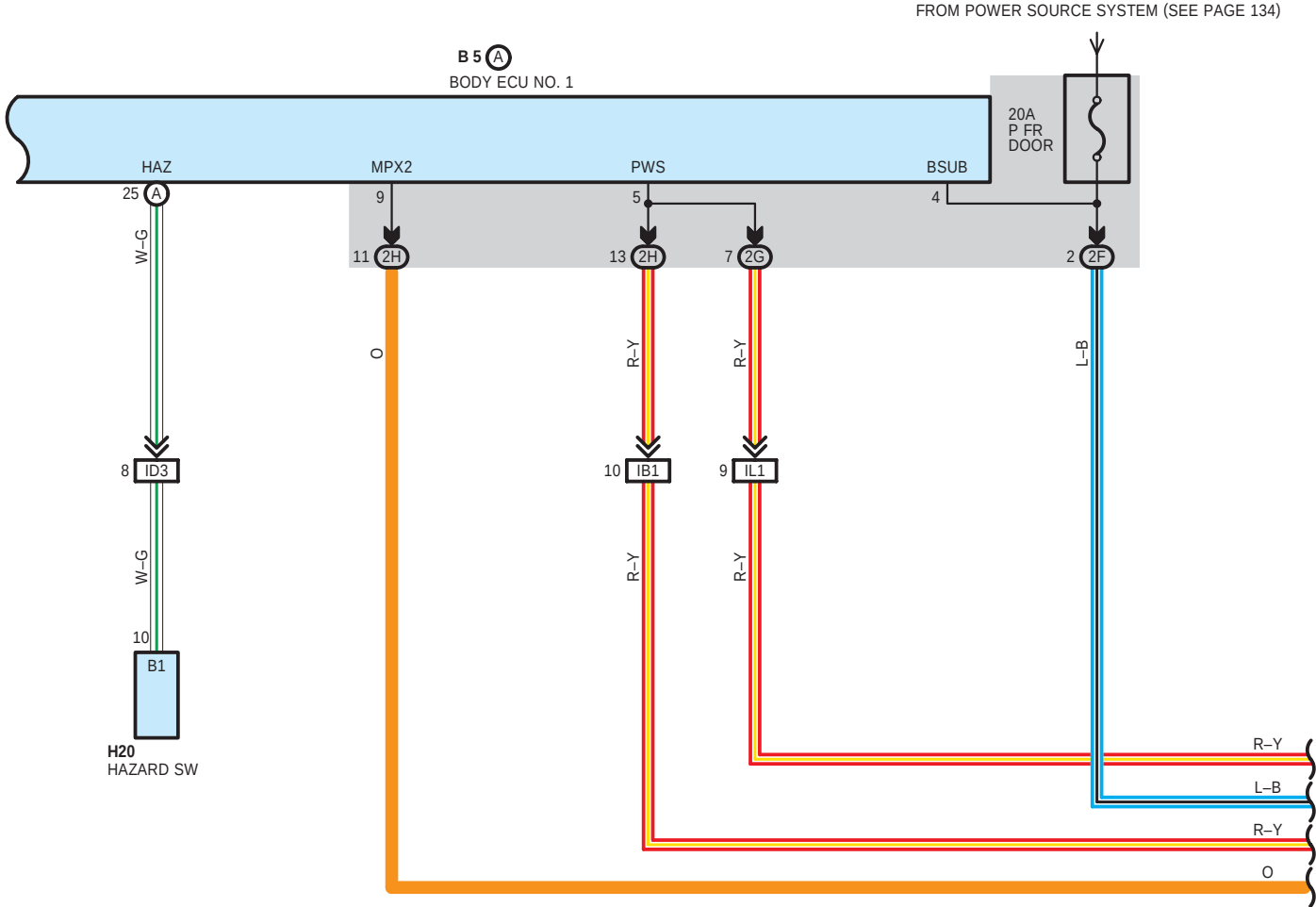


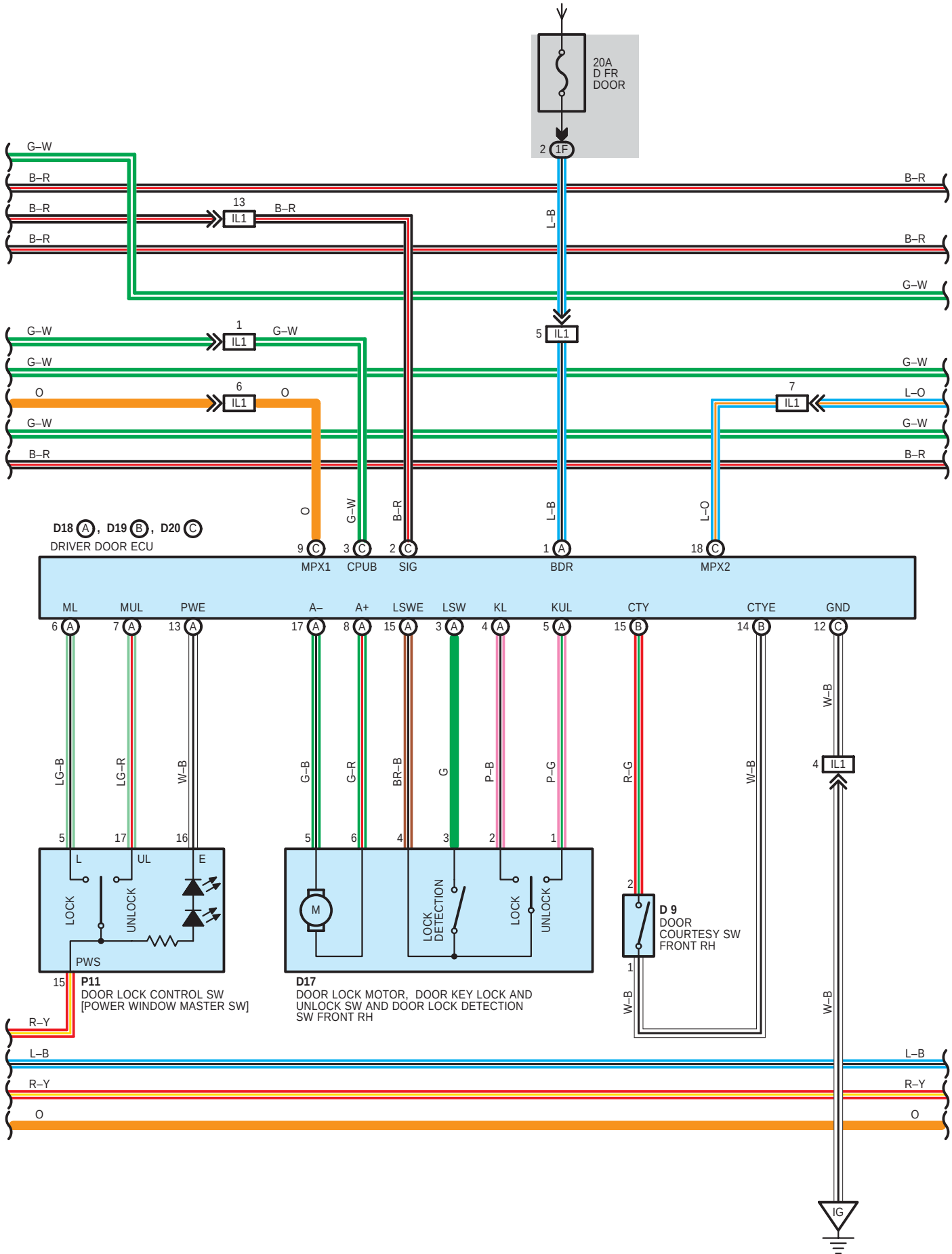
# WIRELESS DOOR LOCK CONTROL (RHD)



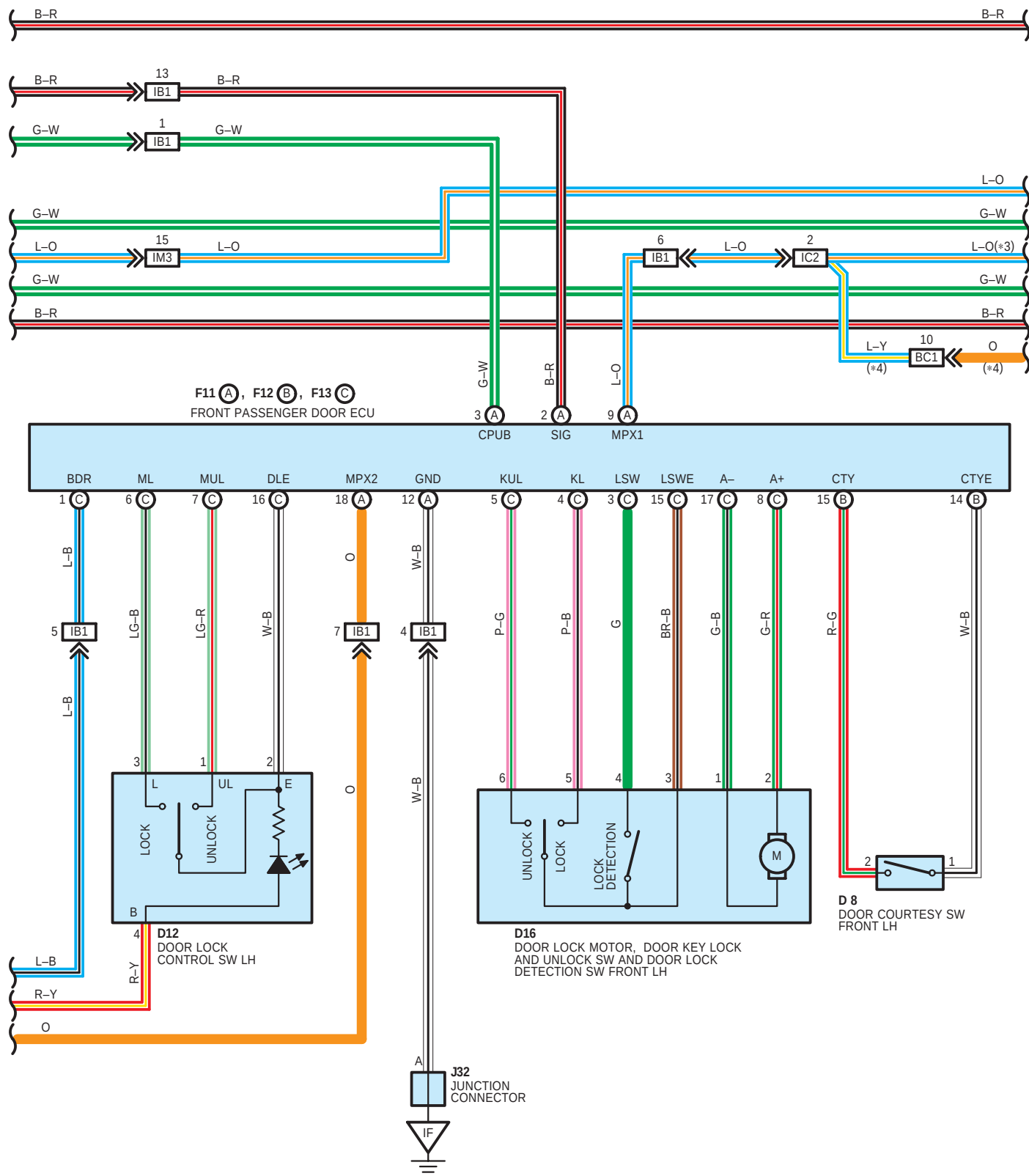


WIRELESS DOOR LOCK CONTROL (RHD)

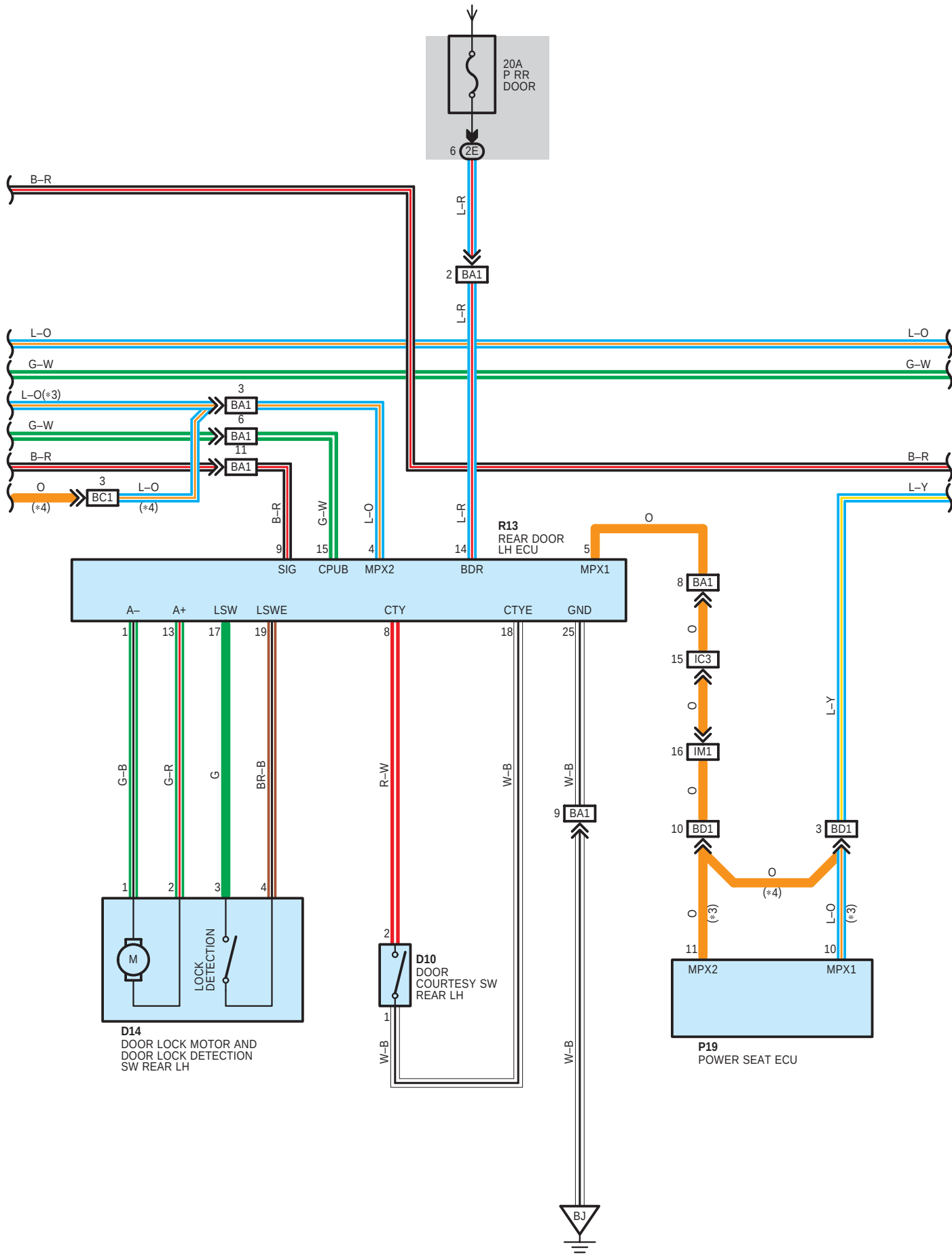




# WIRELESS DOOR LOCK CONTROL (RHD)

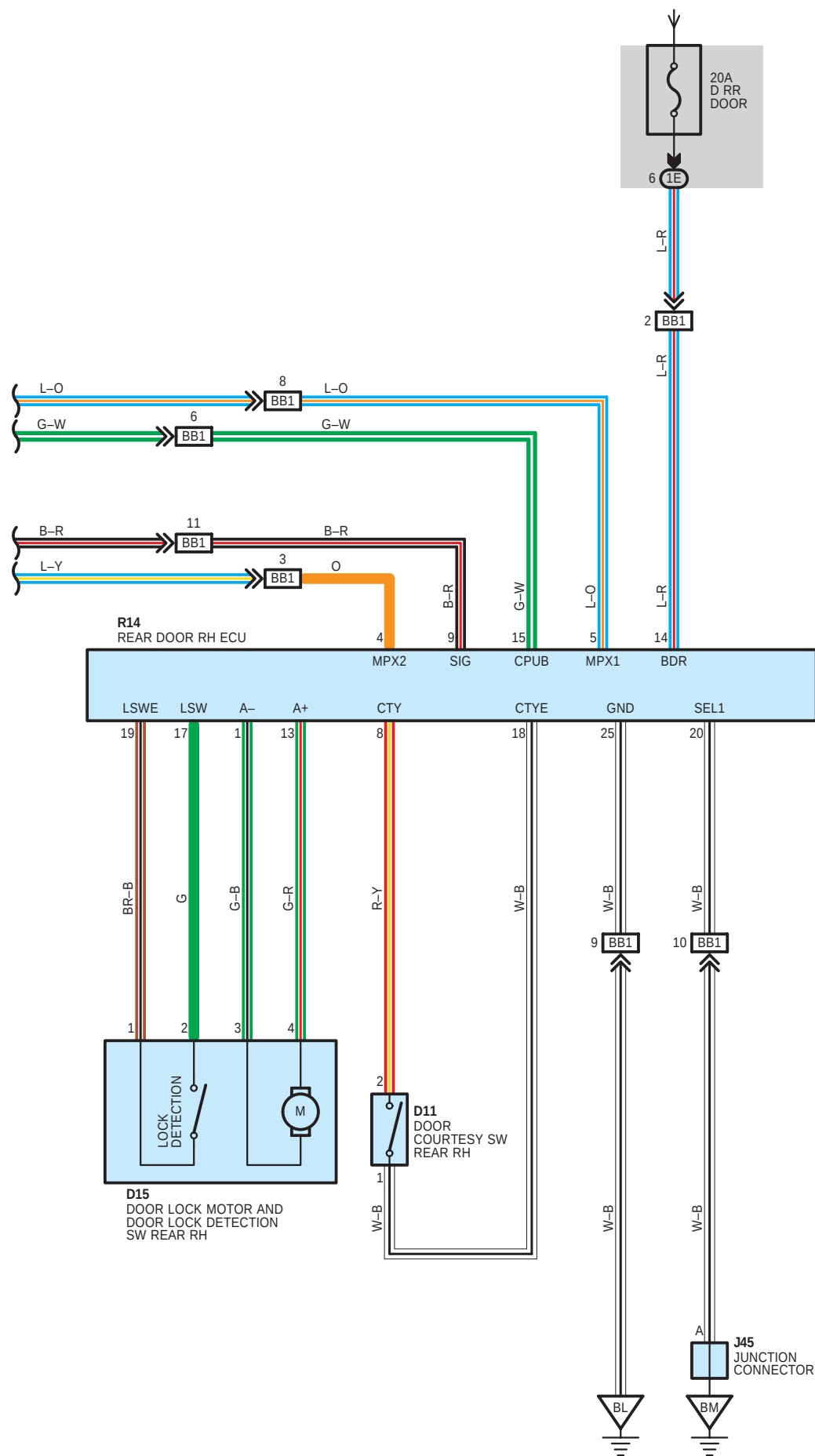


FROM POWER SOURCE SYSTEM (SEE PAGE 134)



# WIRELESS DOOR LOCK CONTROL (RHD)

FROM POWER SOURCE SYSTEM (SEE PAGE 134)





- \* 1 : EXCEPT AUSTRALIA
- \* 2 : AUSTRALIA



## SERVICE HINTS

### A38 AUTO ANTENNA CONTROL RELAY AND MOTOR

- 3-GROUND : Always approx. **12** volts
- 6-GROUND : Approx. **12** volts with ignition SW at **ON** position
- 8-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position
- 7-GROUND : Always continuity

## ○ : PARTS LOCATION

| Code  | See Page | Code  | See Page | Code | See Page |
|-------|----------|-------|----------|------|----------|
| A38   | 76 (LHD) | J22   | 78 (LHD) | R4   | 74 (LHD) |
|       | 90 (RHD) | J38 B | 88 (RHD) |      | 88 (RHD) |
| J13 A | 74 (LHD) | J45   | 90 (RHD) |      |          |

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

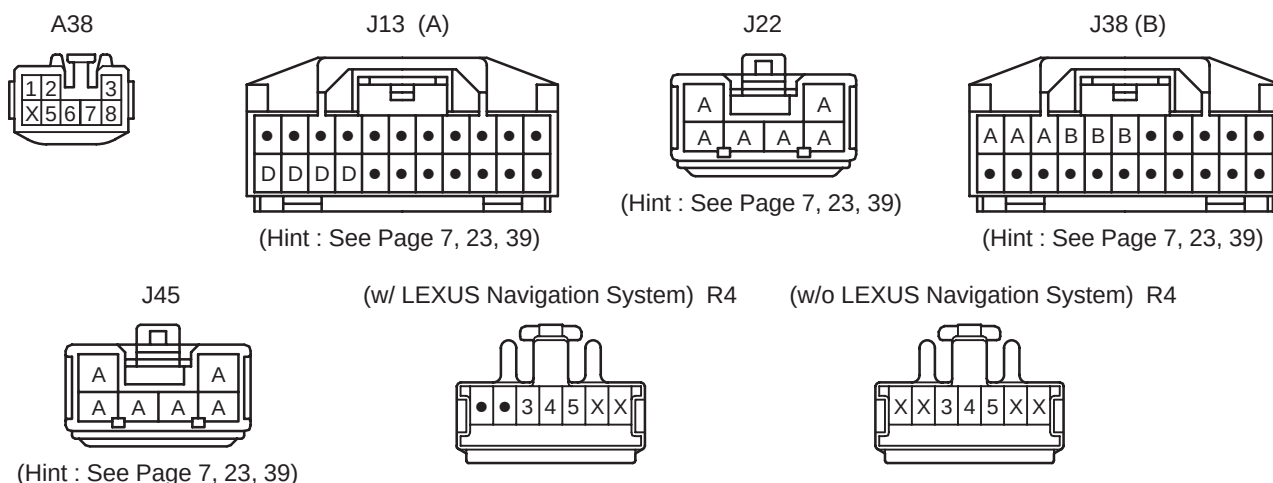
| Code | See Page | Junction Block and Wire Harness (Connector Location)      |
|------|----------|-----------------------------------------------------------|
| 1E   | 58 (LHD) | Floor No.2 Wire and Driver Side J/B (Left Kick Panel)     |
|      | 58 (RHD) | Floor No.1 Wire and Driver Side J/B (Right Kick Panel)    |
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)           |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)          |
| 2E   | 60 (LHD) | Floor No.1 Wire and Passenger Side J/B (Right Kick Panel) |
|      | 60 (RHD) | Floor No.2 Wire and Passenger Side J/B (Left Kick Panel)  |
| 2H   | 61 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)       |
|      | 61 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)        |

## □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)          |
|------|-----------|---------------------------------------------------------------------|
| ID3  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit) |
| IJ2  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)  |
| IL1  | 100 (LHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                    |
| IM1  | 110 (RHD) |                                                                     |
| IM3  |           |                                                                     |

## ▽ : GROUND POINTS

| Code | See Page  | Ground Points Location |
|------|-----------|------------------------|
| BM   | 102 (LHD) | Quarter Panel RH       |
|      | 112 (RHD) |                        |



## SYSTEM OUTLINE

### 1. HEATER BLOWER OPERATION

#### Manual operation

When the blower speed is set to a certain level using the blower control SW, the A/C control assembly sends the signals to the blower control to control the blower motor speed.

#### Auto operation

When the auto SW is turned on, the A/C control assembly sends the signals from various sensors and temperature SW to the blower control to automatically control the blower motor speed.

### 2. AIR INLET CONTROL SERVO MOTOR CONTROL

When the FRESH/RECIRC select SW is set to RECIRC, the motor in the air inlet control servo motor starts rotating to move the damper toward the RECIRC side. Since the damper position is detected by the **TERMINAL TP1** of the A/C control assembly, the motor is continuously rotated until the damper reaches its stop position. When the FRESH/RECIRC select SW is set to FRESH, the motor in the air inlet control servo motor starts rotating to move the damper toward the FRESH side. Since the damper position is detected by the **TERMINAL TP1** of the A/C control assembly, the motor is continuously rotated until the damper reaches its stop position. When the FRESH/RECIRC select SW is set to AUTO, the exhaust gas sensor installed in the engine room monitors contents in the exhaust gas and FRESH or RECIRC is automatically switched.

### 3. AIR VENT MODE CONTROL SERVO MOTOR CONTROL

When the mode select SW is pushed, the ECU in the A/C control assembly activates the air vent mode control servo motor. This causes the servo motor to rotate to the position (FACE, BI-LEVEL, FOOT, FOOT/DEF, DEF) selected using the mode select SW, and moves the film damper.

### 4. AIR MIX CONTROL SERVO MOTOR CONTROL

When the temperature control SW on the driver's side is pressed, the ECU in the A/C control assembly sends a signal to the air mix control servo motor on the driver's side. This signal drives the motor to reach the temperature set by the temperature control SW on the driver's side, and moves the film damper. Passenger's side is operated as same as the driver's side.

### 5. AIR CONDITIONER OPERATION

The A/C control assembly receives various signals, I.E., the engine RPM from the crankshaft position sensor, outlet temperature signal from the A/C ambient temp. sensor, coolant temperature from the water temp. sensor and the lock signal from the A/C compressor, etc. When the engine is started and the A/C SW is on, a signal is input to the ECU (Built into the A/C control assembly). As a result, the ground circuit in A/C control assembly is closed and current flows from **HTR** fuse to **TERMINAL 1** of the A/C COMP relay to **TERMINAL 2** to **TERMINAL ACMG** of the engine and ECT ECU to **TERMINAL MPX2** to **TERMINAL MPX+** of the A/C control assembly to **TERMINAL GND** to **GROUND**, turning the relay on so that the A/C magnetic clutch is on and the A/C compressor operates. At the same time, the engine and ECT ECU detects the magnetic clutch is on and the A/C compressor operates and rotates the motor to the open direction to avoid lowering the engine RPM during A/C operation. When any of the following signals are input to the A/C control assembly, the control assembly operates to turn off the air conditioner.

- \* Coolant temp. signal is high.
- \* A signal that the temperature at the air outlet is low.
- \* A signal that there is a large difference between engine speed and compressor speed.
- \* A signal that the refrigerant pressure is abnormally high or low.

## SERVICE HINTS

### A4 A/C DUAL PRESSURE SW

- 1-4 : Open with the refrigerant pressure at less than approx. **216 kpa (2.2 kgf/cm<sup>2</sup>, 31 psi)** or more than approx. **3138 kpa (32 kgf/cm<sup>2</sup>, 455 psi)**

### A16 (A) A/C CONTROL ASSEMBLY

- +B-GROUND : Always approx. **12 volts**
- ACC-GROUND : Approx. **12 volts** with ignition SW at **ACC** or **ON** position
- AIF-GROUND : Approx. **12 volts** with FRESH SW on
- AIR-GROUND : Approx. **12 volts** with RECIRC SW on
- GND-GROUND : Always continuity

## ○ : PARTS LOCATION

| Code |   | See Page |  | Code |   | See Page |  | Code     |   | See Page |  |
|------|---|----------|--|------|---|----------|--|----------|---|----------|--|
| A1   |   | 68 (LHD) |  | A28  |   | 72 (LHD) |  | E10      |   | 68 (LHD) |  |
|      |   | 82 (RHD) |  |      |   | 86 (RHD) |  |          |   | 82 (RHD) |  |
| A3   |   | 68 (LHD) |  | A29  |   | 72 (LHD) |  | J2       |   | 70 (LHD) |  |
|      |   | 82 (RHD) |  |      |   | 86 (RHD) |  | J8       |   | 74 (LHD) |  |
| A4   |   | 68 (LHD) |  | A30  |   | 72 (LHD) |  | J13      | A | 74 (LHD) |  |
|      |   | 82 (RHD) |  |      |   | 86 (RHD) |  | J18      |   | 74 (LHD) |  |
| A16  | A | 72 (LHD) |  | B2   |   | 72 (LHD) |  | J19      | A | 74 (LHD) |  |
|      |   | 86 (RHD) |  |      |   | 86 (RHD) |  | J26      |   | 84 (RHD) |  |
| A17  | B | 72 (LHD) |  | B3   | A | 72 (LHD) |  | J31      | B | 88 (RHD) |  |
|      |   | 86 (RHD) |  |      |   | 86 (RHD) |  | J32      |   | 88 (RHD) |  |
| A18  |   | 72 (LHD) |  | B4   | B | 72 (LHD) |  | J37      |   | 88 (RHD) |  |
|      |   | 86 (RHD) |  |      |   | 86 (RHD) |  | J41      | B | 88 (RHD) |  |
| A19  |   | 72 (LHD) |  | E2   | A | 68 (LHD) |  | J42      |   | 88 (RHD) |  |
|      |   | 86 (RHD) |  |      |   | 82 (RHD) |  | M2       |   | 74 (LHD) |  |
| A20  |   | 72 (LHD) |  | E3   | B | 68 (LHD) |  |          |   | T5       |  |
|      |   | 86 (RHD) |  |      |   | 82 (RHD) |  | 74 (LHD) |   |          |  |
| A27  |   | 72 (LHD) |  | E5   | D | 68 (LHD) |  |          |   | 88 (RHD) |  |
|      |   | 86 (RHD) |  |      |   | 82 (RHD) |  |          |   |          |  |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |
| 3    | 56       | Engine Room No.3 R/B (Engine Compartment Left)  |
| 4    | 57 (LHD) | Passenger Side R/B (Right Kick Panel)           |
|      | 57 (RHD) | Passenger Side R/B (Left Kick Panel)            |

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)                                   |
|------|----------|----------------------------------------------------------------------------------------|
| 1C   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)                            |
|      | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel)                           |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                                        |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                                       |
| 1G   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                                        |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                                       |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)                                    |
|      | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)                                     |
| 3A   | 62       | Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Reinforcement Center) |
| 3E   | 63       |                                                                                        |
| 3G   |          |                                                                                        |

# AUTOMATIC AIR CONDITIONER

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

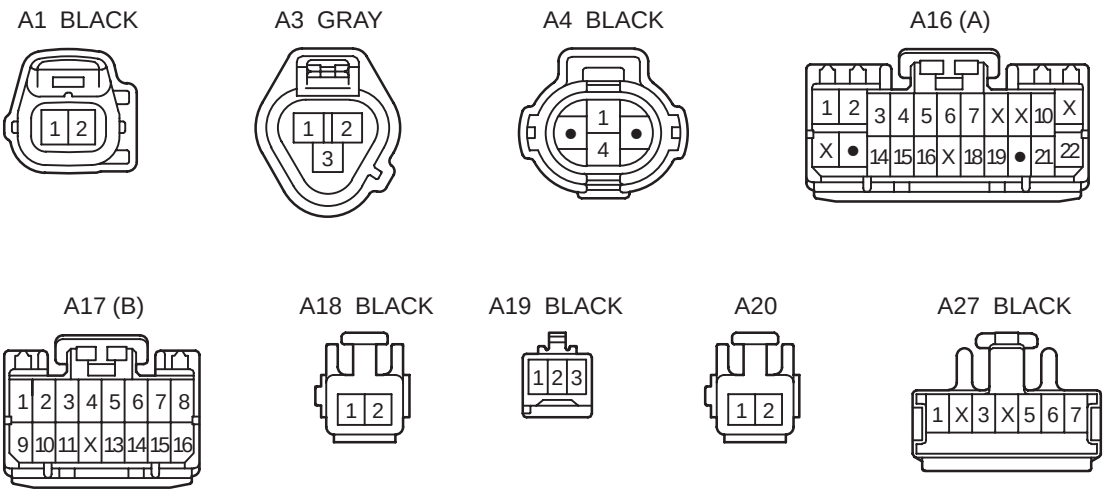
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)             |
|------|-----------|------------------------------------------------------------------------|
| EA1  | 96 (LHD)  | Engine Wire and Cowl Wire (Inside of the ECU Box)                      |
|      | 106 (RHD) |                                                                        |
| EA2  | 96 (LHD)  |                                                                        |
|      | 106 (RHD) |                                                                        |
| EB1  | 96 (LHD)  | Cowl Wire and Relay Block Wire (Inside of the Engine Room No.3 R/B)    |
|      | 106 (RHD) |                                                                        |
| IA3  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)      |
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)    |
| IE1  | 108 (RHD) | Cowl Wire and A/C Sub Wire (Right Side of the Blower Unit)             |
| IF1  | 108 (RHD) | Instrument Panel Wire and A/C Sub Wire (Right Side of the Blower Unit) |
| IG1  | 98 (LHD)  | Cowl Wire and A/C Sub Wire (Left Side of the Blower Unit)              |
| IH1  | 98 (LHD)  | Instrument Panel Wire and A/C Sub Wire (Left Side of the Blower Unit)  |
| II1  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)      |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)     |

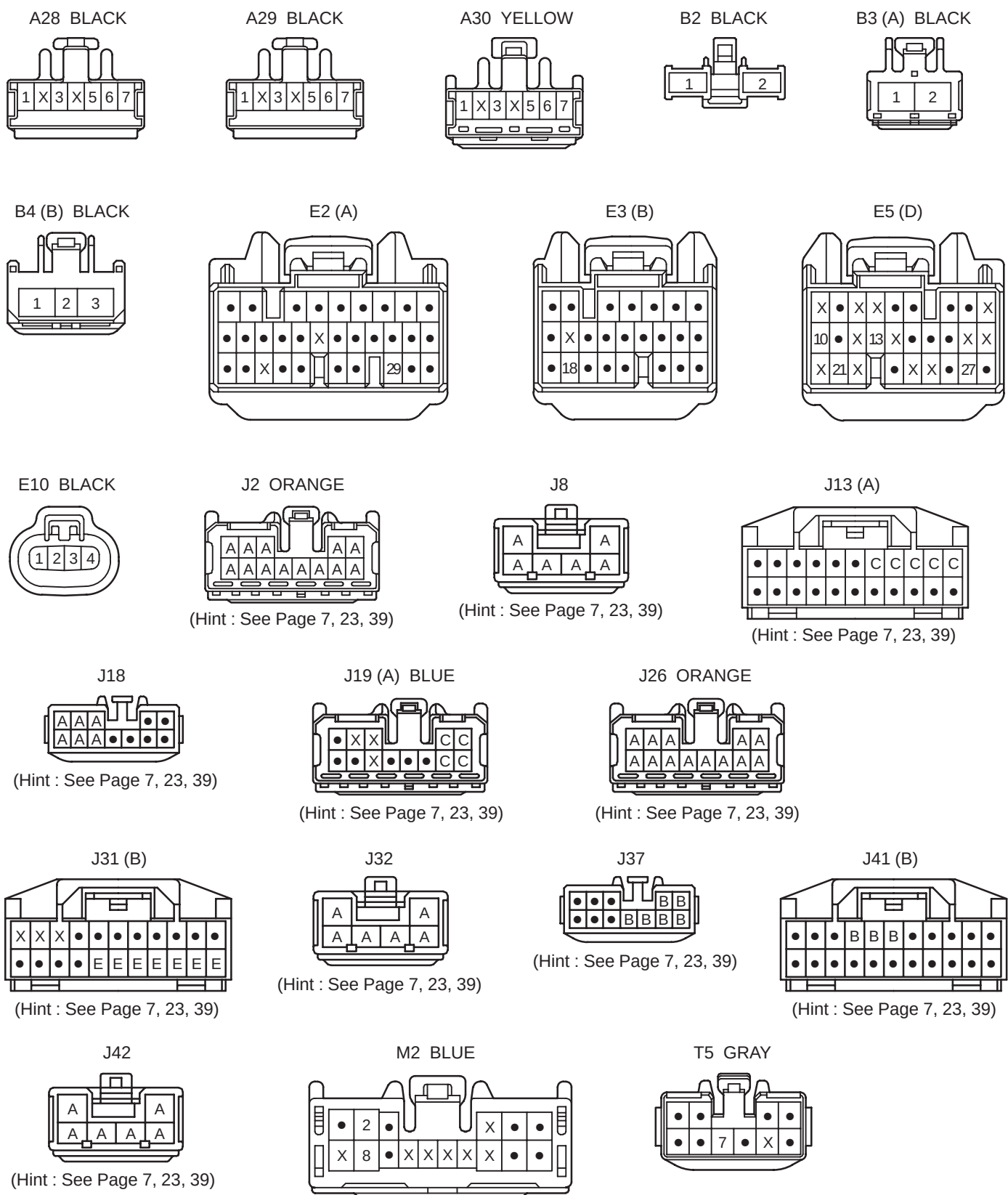
 : GROUND POINTS

| Code | See Page  | Ground Points Location            |
|------|-----------|-----------------------------------|
| EB   | 96 (LHD)  | Left Fender                       |
| EC   | 96 (LHD)  | Front Side of the Intake Manifold |
|      | 106 (RHD) |                                   |
| ED   | 96 (LHD)  | Rear Side of the Intake Manifold  |
|      | 106 (RHD) |                                   |
| IF   | 98 (LHD)  | Left Kick Panel                   |
|      | 108 (RHD) |                                   |
| IG   | 108 (RHD) | Behind the Combination Meter      |
| II   | 98 (LHD)  | Right Side of the Cowl Panel      |
|      | 108 (RHD) | Cowl Side Panel RH                |

 : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| E1   | 96 (LHD)  | Engine Wire                     | E4   | 106 (RHD) | Cowl Wire                       |
|      | 106 (RHD) |                                 | I2   | 100 (LHD) | A/C Sub Wire                    |
| E4   | 96 (LHD)  | Cowl Wire                       | I3   | 110 (RHD) |                                 |





## SERVICE HINTS

### I13 INNER MIRROR

1-GROUND : Approx. 12 volts with ignition SW at **ON** or **ST** position

4-GROUND : Always continuity

### : PARTS LOCATION

| Code |   | See Page |  | Code |   | See Page |  | Code |  | See Page |  |
|------|---|----------|--|------|---|----------|--|------|--|----------|--|
| I13  |   | 78 (LHD) |  | J16  | A | 74 (LHD) |  | J42  |  | 88 (RHD) |  |
|      |   | 90 (RHD) |  | J31  | B | 88 (RHD) |  | R17  |  | 78 (LHD) |  |
| J7   | A | 74 (LHD) |  | J32  |   | 88 (RHD) |  |      |  |          |  |
| J8   |   | 74 (LHD) |  | J37  |   | 88 (RHD) |  | R18  |  | 78 (LHD) |  |
| J10  |   | 74 (LHD) |  | J41  | B | 88 (RHD) |  |      |  | 92 (RHD) |  |

### : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|------------------------------------------------------|
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)      |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)     |
| 2D   | 60 (LHD) | Roof Wire and Passenger Side J/B (Right Kick Panel)  |
|      | 60 (RHD) | Roof Wire and Passenger Side J/B (Left Kick Panel)   |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)  |
|      | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)   |
| 2G   | 61 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)  |
|      | 61 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)   |
| 2H   | 61 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)  |
|      | 61 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)   |

### : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location) |
|------|-----------|------------------------------------------------------------|
| IB1  | 98 (LHD)  | Front Door LH Wire and Cowl Wire (Left Kick Panel)         |
|      | 108 (RHD) |                                                            |
| IK1  | 100 (LHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)        |
| IL1  | 110 (RHD) |                                                            |

### : GROUND POINTS

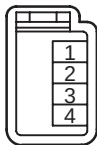
| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| EB   | 96 (LHD)  | Left Fender                  |
| IF   | 98 (LHD)  | Left Kick Panel              |
|      | 108 (RHD) |                              |
| II   | 98 (LHD)  | Right Side of the Cowl Panel |
|      | 108 (RHD) | Cowl Side Panel RH           |

### : SPLICE POINTS

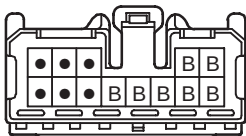
| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| I2   | 110 (RHD) | Cowl Wire                       | I6   | 100 (LHD) | Cowl Wire                       |

# AUTOMATIC GLARE-RESISTANT EC MIRROR

I13 ORANGE

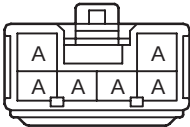


J7 (A) GRAY



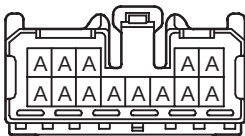
(Hint : See Page 7, 23, 39)

J8



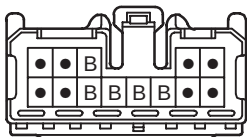
(Hint : See Page 7, 23, 39)

J10 ORANGE



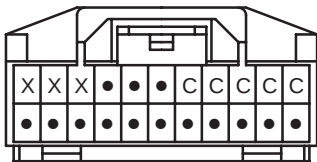
(Hint : See Page 7, 23, 39)

J16 (A)



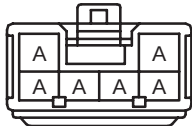
(Hint : See Page 7, 23, 39)

J31 (B)



(Hint : See Page 7, 23, 39)

J32



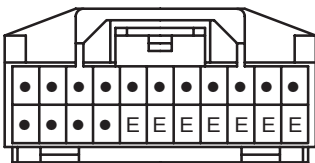
(Hint : See Page 7, 23, 39)

J37



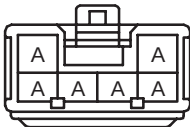
(Hint : See Page 7, 23, 39)

J41 (B)



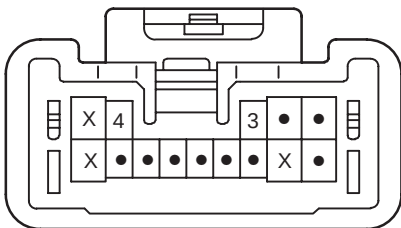
(Hint : See Page 7, 23, 39)

J42

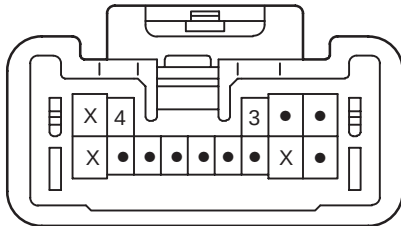


(Hint : See Page 7, 23, 39)

R17



R18





# AUTOMATIC LIGHT CONTROL (RHD)

## SYSTEM OUTLINE

When the light control SW is set at AUTO, the automatic light control system automatically turns on or off the taillights and headlights depending on the brightness around the vehicle.

### AUTOMATIC LIGHT CONTROL OPERATION

The automatic light control sensor converts the intensity of the illumination into frequency and inputs it to the body ECU No.2. When the light control SW is set at AUTO, the signal is input to **TERMINAL AUTO** of the body ECU No.2. Through communication control of the body ECU and door ECU etc. , the taillights and headlights are automatically turned on or off.

#### \* Turn on operation

When the body ECU No.2 receives the frequency signal from the automatic light control sensor and determines that the brightness around the vehicle has decreased below a specified level, **TERMINAL TRLY** and **HRLY** of the body ECU No.2 are controlled through communication control of the body ECU and door ECU etc. As a result, the taillights and headlights light up as the tail relay and HEAD LP relay are turned on.

#### \* Turn off operation

When the body ECU No.2 receives the frequency signal from the automatic light control sensor and determines that the brightness around the vehicle has exceeded a specified level, **TERMINAL TRLY** and **HRLY** of the body ECU No.2 are controlled through communication control of the body ECU and door ECU etc. As a result, the taillights and headlights go off as the tail relay and HEAD LP relay are turned off.

Additionally, when the ignition SW is changed from ON to OFF and any door is opened, and then closed with the taillights and headlights lit (The automatic light control is functioning), the taillights and headlights are turned off in the same manner as the light auto turn off operation.

## SERVICE HINTS

### C13 (A), (B) LIGHT CONTROL SW [COMB. SW]

(A) 15–(A) 16, (B) 15–(B) 9 : Closed with light control SW at **TAIL** or **HEAD** position

(A) 14–(A) 16, (B) 14–(B) 9 : Closed with light control SW at **HEAD** position

(A) 13–(A) 16, (B) 13–(B) 6 : Closed with light control SW at **AUTO** position

### D9 DOOR COURTESY SW FRONT RH

1–2 : Closed with driver door open

## : PARTS LOCATION

| Code | See Page   | Code | See Page   | Code | See Page |
|------|------------|------|------------|------|----------|
| A33  | 86 (RHD)   | D9   | 90 (RHD)   | J37  | 88 (RHD) |
| B6   | A 86 (RHD) | D18  | A 90 (RHD) | J40  | 88 (RHD) |
| C12  | 86 (RHD)   | D19  | B 90 (RHD) | J41  | 88 (RHD) |
| C13  | A 86 (RHD) | D20  | C 90 (RHD) | J42  | 88 (RHD) |
|      | B 86 (RHD) | J32  | 88 (RHD)   |      |          |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)            |
|------|----------|------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left) |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)           |
|------|----------|----------------------------------------------------------------|
| 1A   | 58 (RHD) | Engine Room Main Wire and Driver Side J/B (Right Kick Panel)   |
| 1D   | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel)   |
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)               |
| 1G   | 59 (RHD) |                                                                |
| 1H   |          |                                                                |
| 2B   | 60 (RHD) | Engine Room Main Wire and Passenger Side J/B (Left Kick Panel) |
| 2G   | 61 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)             |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

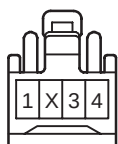
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)              |
|------|-----------|-------------------------------------------------------------------------|
| IA2  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |
| IL1  | 110 (RHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                     |



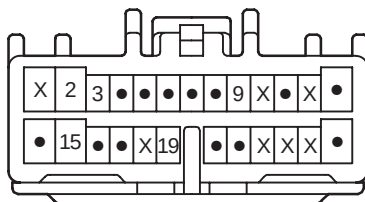
## : GROUND POINTS

| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| IF   | 108 (RHD) | Left Kick Panel              |
| IG   | 108 (RHD) | Behind the Combination Meter |
| II   | 108 (RHD) | Cowl Side Panel RH           |

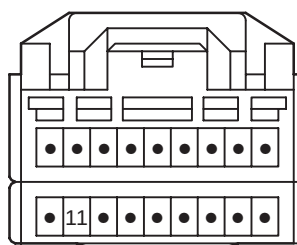
A33 BLACK



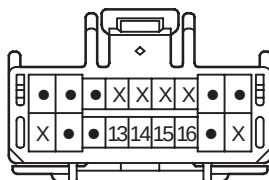
B6 (A)



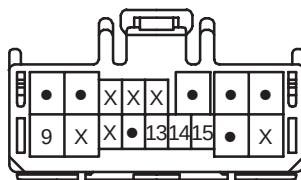
C12



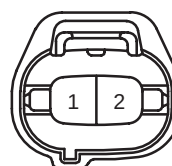
(Europe) C13 (A)



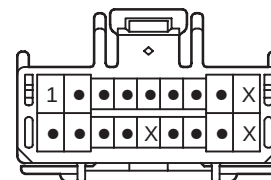
(Australia) C13 (B)



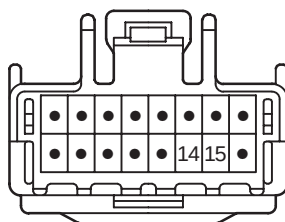
D9 GRAY



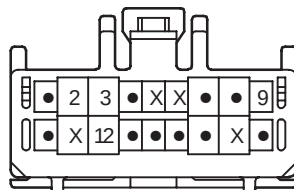
D18 (A) GRAY



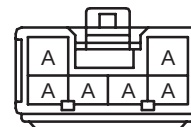
D19 (B) GRAY



D20 (C) GRAY

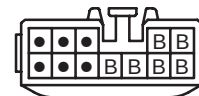


J32



(Hint : See Page 7, 23, 39)

J37



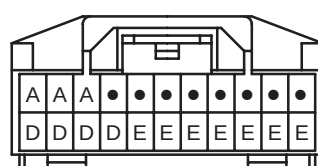
(Hint : See Page 7, 23, 39)

J40 GRAY



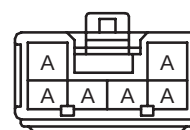
(Hint : See Page 7, 23, 39)

J41



(Hint : See Page 7, 23, 39)

J42



(Hint : See Page 7, 23, 39)

# AUTOMATIC LIGHT CONTROL (LHD)

## SYSTEM OUTLINE

When the light control SW is set at AUTO, the automatic light control system automatically turns on or off the taillights and headlights depending on the brightness around the vehicle.

### AUTOMATIC LIGHT CONTROL OPERATION

The automatic light control sensor converts the intensity of the illumination into frequency and inputs it to the body ECU No.2. When the light control SW is set at AUTO, the signal is input to **TERMINAL AUTO** of the body ECU No.2. Through communication control of the body ECU and door ECU etc., the taillights and headlights are automatically turned on or off.

#### \* Turn on operation

When the body ECU No.2 receives the frequency signal from the automatic light control sensor and determines that the brightness around the vehicle has decreased below a specified level, **TERMINAL TRLY** and **HRLY** of the body ECU No.2 are controlled through communication control of the body ECU and door ECU etc. As a result, the taillights and headlights light up as the tail relay and HEAD LP relay are turned on.

#### \* Turn off operation

When the body ECU No.2 receives the frequency signal from the automatic light control sensor and determines that the brightness around the vehicle has exceeded a specified level, **TERMINAL TRLY** and **HRLY** of the body ECU No.2 are controlled through communication control of the body ECU and door ECU etc. As a result, the taillights and headlights go off as the tail relay and HEAD LP relay are turned off.

Additionally, when the ignition SW is changed from ON to OFF and any door is opened, and then closed with the taillights and headlights lit (The automatic light control is functioning), the taillights and headlights are turned off in the same manner as the light auto turn off operation.

## SERVICE HINTS

### C13 LIGHT CONTROL SW [COMB. SW]

15-16 : Closed with light control SW at **TAIL** or **HEAD** position

14-16 : Closed with light control SW at **HEAD** position

13-16 : Closed with light control SW at **AUTO** position

### D8 DOOR COURTESY SW FRONT LH

1-2 : Closed with driver door open

## : PARTS LOCATION

| Code | See Page   | Code | See Page   | Code | See Page |
|------|------------|------|------------|------|----------|
| A33  | 72 (LHD)   | D8   | 76 (LHD)   | J8   | 74 (LHD) |
| B6   | A 72 (LHD) | D18  | A 76 (LHD) | J10  | 74 (LHD) |
| C12  | 72 (LHD)   | D19  | B 76 (LHD) | J15  | 74 (LHD) |
| C13  | 72 (LHD)   | D20  | C 76 (LHD) | J18  | 74 (LHD) |
| D1   | 72 (LHD)   | J7   | 74 (LHD)   |      |          |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)            |
|------|----------|-----------------------------------------------------------------|
| 1A   | 58 (LHD) | Engine Room Main Wire and Driver Side J/B (Left Kick Panel)     |
| 1D   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)     |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
| 1G   | 59 (LHD) |                                                                 |
| 1H   |          |                                                                 |
| 2B   | 60 (LHD) | Engine Room Main Wire and Passenger Side J/B (Right Kick Panel) |
| 2G   | 61 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)             |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)             |
|------|-----------|------------------------------------------------------------------------|
| IB1  | 98 (LHD)  | Front Door LH Wire and Cowl Wire (Left Kick Panel)                     |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column) |
| II2  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)      |



## : GROUND POINTS

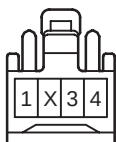
| Code | See Page | Ground Points Location       |
|------|----------|------------------------------|
| IF   | 98 (LHD) | Left Kick Panel              |
| II   | 98 (LHD) | Right Side of the Cowl Panel |



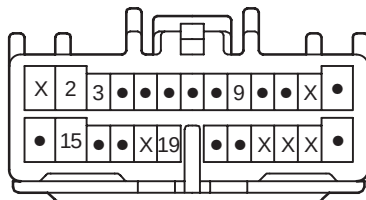
## : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|----------|---------------------------------|
| I6   | 100 (LHD) | Cowl Wire                       |      |          |                                 |

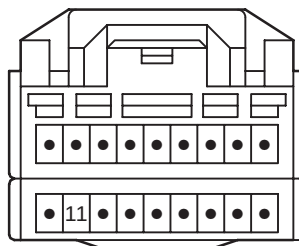
A33 BLACK



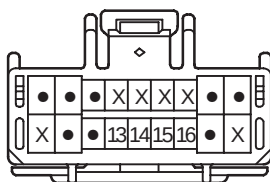
B6 (A)



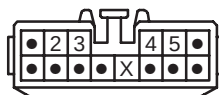
C12



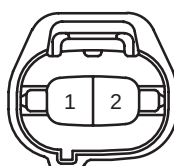
C13



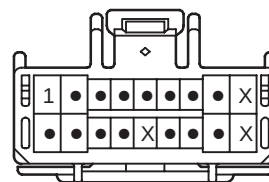
D1 BLUE



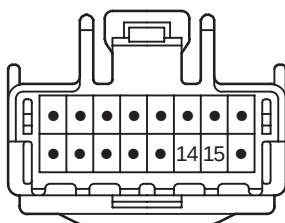
D8 GRAY



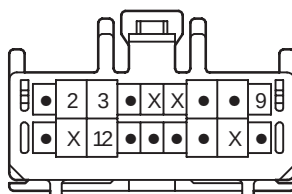
D18 (A) GRAY



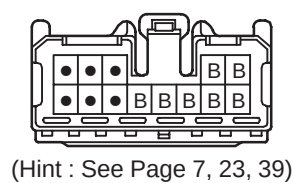
D19 (B) GRAY



D20 (C) GRAY

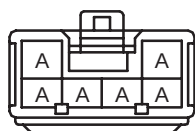


J7 GRAY



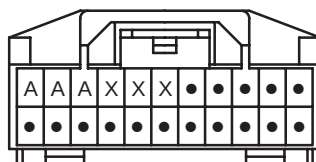
(Hint : See Page 7, 23, 39)

J8



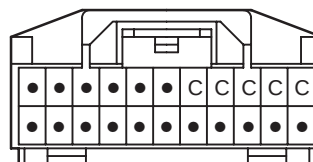
(Hint : See Page 7, 23, 39)

J10



(Hint : See Page 7, 23, 39)

J15



(Hint : See Page 7, 23, 39)

J18



(Hint : See Page 7, 23, 39)

## SERVICE HINTS

### N1 BACK-UP LIGHT SW [NEUTRAL START SW]

4-8 : Closed with shift lever in **R** position

## : PARTS LOCATION

| Code | See Page   | Code | See Page   | Code | See Page |
|------|------------|------|------------|------|----------|
| J1   | 70 (LHD)   | J25  | 84 (RHD)   | N1   | 70 (LHD) |
| J3   | A 70 (LHD) | J27  | A 84 (RHD) |      | 84 (RHD) |
| J4   | B 70 (LHD) | J28  | B 84 (RHD) | R10  | 78 (LHD) |
| J18  | 74 (LHD)   | J35  | 88 (RHD)   |      | 92 (RHD) |
| J20  | 78 (LHD)   | J43  | 90 (RHD)   | R12  | 78 (LHD) |
| J21  | 78 (LHD)   | J44  | 90 (RHD)   |      | 92 (RHD) |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|------------------------------------------------------|
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)      |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)     |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location) |
|------|-----------|------------------------------------------------------------|
| EA1  | 96 (LHD)  | Engine Wire and Cowl Wire (Inside of the ECU Box)          |
|      | 106 (RHD) |                                                            |
| EA3  | 96 (LHD)  |                                                            |
|      | 106 (RHD) |                                                            |
| IC3  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)            |
|      | 108 (RHD) |                                                            |

## : GROUND POINTS

| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| BJ   | 102 (LHD) | Rear Floor Partition Panel LH |
|      | 112 (RHD) |                               |
| BK   | 102 (LHD) | Quarter Panel LH              |
|      | 112 (RHD) |                               |

## : SPLICE POINTS

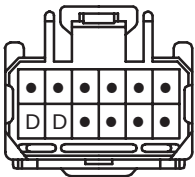
| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| B4   | 102 (LHD) | Floor No.2 Wire                 | B4   | 112 (RHD) | Floor No.2 Wire                 |

J1 BLACK



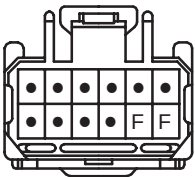
(Hint : See Page 7, 23, 39)

J3 (A)



(Hint : See Page 7, 23, 39)

J4 (B)



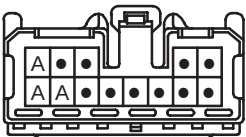
(Hint : See Page 7, 23, 39)

J18



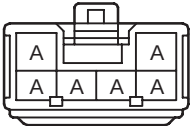
(Hint : See Page 7, 23, 39)

J20 BLUE



(Hint : See Page 7, 23, 39)

J21



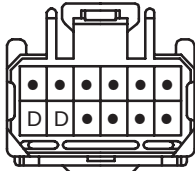
(Hint : See Page 7, 23, 39)

J25 BLACK



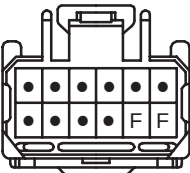
(Hint : See Page 7, 23, 39)

J27 (A)



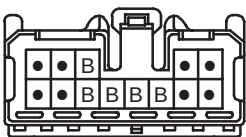
(Hint : See Page 7, 23, 39)

J28 (B)



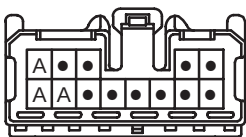
(Hint : See Page 7, 23, 39)

J35



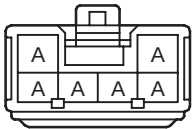
(Hint : See Page 7, 23, 39)

J43 BLUE



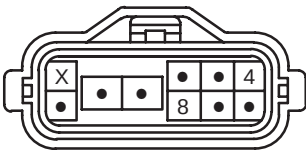
(Hint : See Page 7, 23, 39)

J44

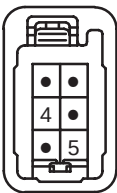


(Hint : See Page 7, 23, 39)

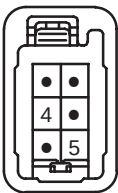
N1 GRAY



R10



R12



## SYSTEM OUTLINE

The cruise control system is a constant vehicle speed controller in which control of the switch on the instrument panel makes it possible to automatically adjust the opening of the engine throttle valve without depressing of the accel. pedal.

### 1. SET OPERATION

When the cruise control main SW is turned on, the system starts preparations necessary for the cruise control and turns on the indicator light in the combination meter.

### 2. SET SPEED CONTROL

When the SET/COAST SW is operated with the cruise control main SW turned on during travelling, the constant vehicle speed is controlled.

### 3. COAST CONTROL

When the SET/COAST SW is kept turned on during cruise control travelling, the engine and ECT ECU controls the throttle valve to decelerate the vehicle. Every time the SET/COAST SW is turned on instantaneously, the vehicle speed is decelerated approximately **1.5 km/h**.

### 4. ACCEL CONTROL

When the RES/ACC SW is kept turned on during cruise control travelling, the engine and ECT ECU controls the throttle valve to accelerate the vehicle. Every time the RES/ACC SW is turned on instantaneously, the vehicle speed is accelerated approximately **1.5 km/h**.

### 5. RESUME CONTROL

When the vehicle speed is within the low speed limit (Approximately **40 km/h, 25 mph**) if the cruise control is cancelled, use of the RES/ACC SW accelerates the vehicle to the speed level used before canceling the cruise control.

### 6. MANUAL CANCEL MECHANISM

If any of the following signals is input during cruise control travelling, the cruise control is cancelled.

- \* The stop light SW is turned on.
- \* The CANCEL SW is turned on.
- \* The cruise control main SW is turned off.
- \* The VSC is activated.

### 7. AUTO CANCEL FUNCTION

If any of the following conditions is encountered, the cruise control is automatically cancelled.

- \* The stop light SW wiring is faulty or short-circuited.
- \* The vehicle speed signal is faulty.
- \* The electronically controlled throttle malfunctions.

### 8. OVERDRIVE CONTROL FUNCTION

The overdrive control may be cancelled if the vehicle travels on the slope during cruise control travelling. After the overdrive control has been cancelled, if the vehicle speed exceeds the overdrive return speed (The set speed is **2 km/h, 1.2 mph**) and it is decided that the slope is finished, the vehicle returns to the overdrive control mode again.

## SERVICE HINTS

### E2 (A), E3 (B), E5 (D), E6 (E), E7 (F) ENGINE AND ECT ECU

- (E) 9-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- (E) 1-GROUND : Always approx. **12** volts
- (A) 9, (A) 21, (A) 31, (B) 1, (B) 17, (E) 22, (F) 9-GROUND : Always continuity
- (D) 6-GROUND : Approx. **12** volts with stop light SW at on
- (D)23-GROUND : Continuity with cruise control main SW at on
  - Approx. **1540 Ω** with CANCEL SW on in cruise control SW
  - Approx. **240 Ω** with RES/ACC SW on in cruise control SW
  - Approx. **630 Ω** with SET/COAST SW on in cruise control SW

### C15 CRUISE CONTROL SW [COMB. SW]

- 5-4 : Approx. **1540 Ω** with CANCEL SW on
- Approx. **240 Ω** with RES/ACC SW on
- Approx. **630 Ω** with SET/COAST SW on

# CRUISE CONTROL

## : PARTS LOCATION

| Code |   | See Page |  | Code |   | See Page |  | Code     |   | See Page |  |
|------|---|----------|--|------|---|----------|--|----------|---|----------|--|
| A10  |   | 68 (LHD) |  | E7   | F | 68 (LHD) |  | J34      |   | 88 (RHD) |  |
|      |   | 82 (RHD) |  |      |   | 82 (RHD) |  | J35      |   | 88 (RHD) |  |
| A16  |   | 72 (LHD) |  | J1   |   | 70 (LHD) |  | J36      | B | 88 (RHD) |  |
|      |   | 86 (RHD) |  | J2   |   | 70 (LHD) |  | J37      |   | 88 (RHD) |  |
| C3   |   | 68 (LHD) |  | J3   | A | 70 (LHD) |  | J38      | B | 88 (RHD) |  |
|      |   | 82 (RHD) |  | J4   | B | 70 (LHD) |  | J39      | B | 88 (RHD) |  |
| C11  | A | 72 (LHD) |  | J5   |   | 70 (LHD) |  | J42      |   | 88 (RHD) |  |
|      |   | 86 (RHD) |  | J7   | A | 74 (LHD) |  | M2       |   | 74 (LHD) |  |
| C12  | B | 72 (LHD) |  | J8   |   | 74 (LHD) |  |          |   | N1       |  |
|      |   | 86 (RHD) |  | J9   | A | 74 (LHD) |  | 70 (LHD) |   |          |  |
| C15  |   | 72 (LHD) |  | J14  |   | 74 (LHD) |  | S12      |   | 84 (RHD) |  |
|      |   | 86 (RHD) |  | J15  | B | 74 (LHD) |  |          |   | 74 (LHD) |  |
| E2   | A | 68 (LHD) |  | J18  |   | 74 (LHD) |  | T2       |   | 88 (RHD) |  |
|      |   | 82 (RHD) |  | J25  |   | 84 (RHD) |  |          |   | 70 (LHD) |  |
| E3   | B | 68 (LHD) |  | J26  |   | 84 (RHD) |  | T3       |   | 84 (RHD) |  |
|      |   | 82 (RHD) |  | J27  | A | 84 (RHD) |  |          |   | 70 (LHD) |  |
| E5   | D | 68 (LHD) |  | J28  | B | 84 (RHD) |  | T5       |   | 84 (RHD) |  |
|      |   | 82 (RHD) |  | J29  |   | 84 (RHD) |  |          |   | 74 (LHD) |  |
| E6   | E | 68 (LHD) |  | J31  |   | 88 (RHD) |  |          |   | 88 (RHD) |  |
|      |   | 82 (RHD) |  | J32  |   | 88 (RHD) |  |          |   |          |  |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)         |
|------|----------|--------------------------------------------------------------|
| 1D   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)  |
|      | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel) |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1G   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |



 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|-----------|---------------------------------------------------------------------------|
| EA1  | 96 (LHD)  | Engine Wire and Cowl Wire (Inside of the ECU Box)                         |
|      | 106 (RHD) |                                                                           |
| EA2  | 96 (LHD)  |                                                                           |
|      | 106 (RHD) |                                                                           |
| EA3  | 96 (LHD)  |                                                                           |
|      | 106 (RHD) |                                                                           |
| IA1  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)         |
| IA2  | 98 (LHD)  | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)            |
|      | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)         |
| ID1  | 98 (LHD)  | Cowl Wire and Cowl Wire (Left Side of the Instrument Panel Reinforcement) |
|      | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)       |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column)    |
| II1  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)         |
|      | 110 (RHD) | Cowl Wire and Cowl Wire (Left Side of the Steering Column)                |
| II4  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)         |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)        |
|      | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column)   |

 : GROUND POINTS

| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EB   | 96 (LHD)  | Left Fender                        |
|      | 106 (RHD) |                                    |
| EC   | 96 (LHD)  | Front Side of the Intake Manifold  |
|      | 106 (RHD) |                                    |
| ED   | 96 (LHD)  | Rear Side of the Intake Manifold   |
|      | 106 (RHD) |                                    |
| EE   | 96 (LHD)  | Under the ABS & TRC & VSC Actuator |
|      | 106 (RHD) |                                    |
| IF   | 98 (LHD)  | Left Kick Panel                    |
|      | 108 (RHD) |                                    |
| II   | 98 (LHD)  | Right Side of the Cowl Panel       |
|      | 108 (RHD) | Cowl Side Panel RH                 |

 : SPLICE POINTS

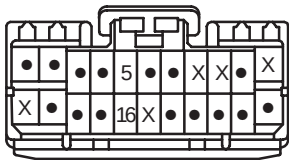
| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| E1   | 96 (LHD)  | Engine Wire                     | E2   | 106 (RHD) | Engine Wire                     |
|      | 106 (RHD) |                                 | E4   | 96 (LHD)  | Cowl Wire                       |
| E2   | 96 (LHD)  |                                 |      | 106 (RHD) |                                 |

CRUISE CONTROL

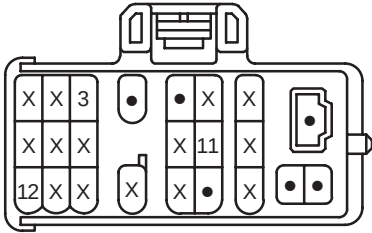
A10 BLACK



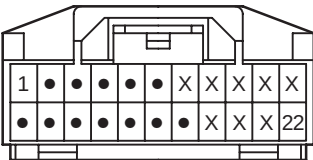
A16



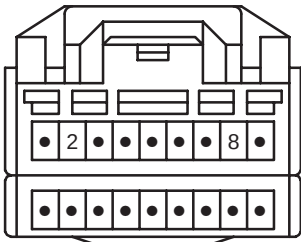
C3 BLACK



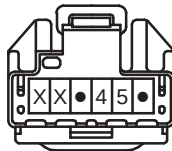
C11 (A)



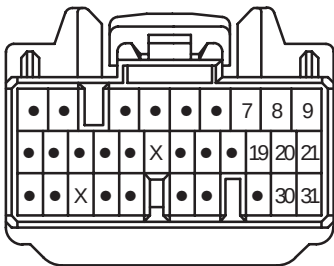
C12 (B)



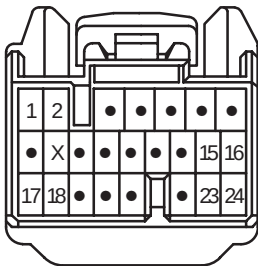
C15 BLACK



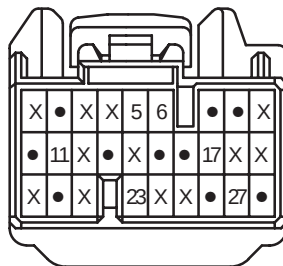
E2 (A)



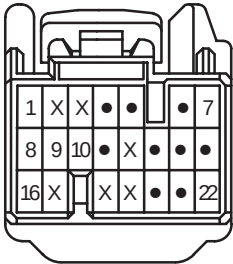
E3 (B)



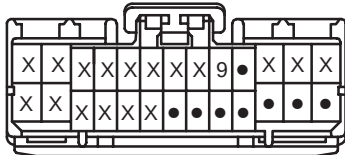
E5 (D)



E6 (E)



E7 (F)

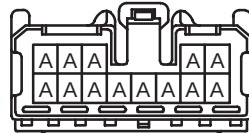


J1 BLACK



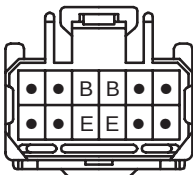
(Hint : See Page 7, 23, 39)

J2 ORANGE



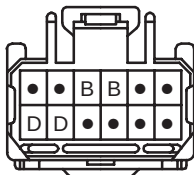
(Hint : See Page 7, 23, 39)

J3 (A)



(Hint : See Page 7, 23, 39)

J4 (B)



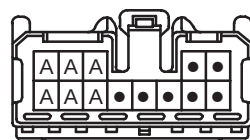
(Hint : See Page 7, 23, 39)

J5 BLUE

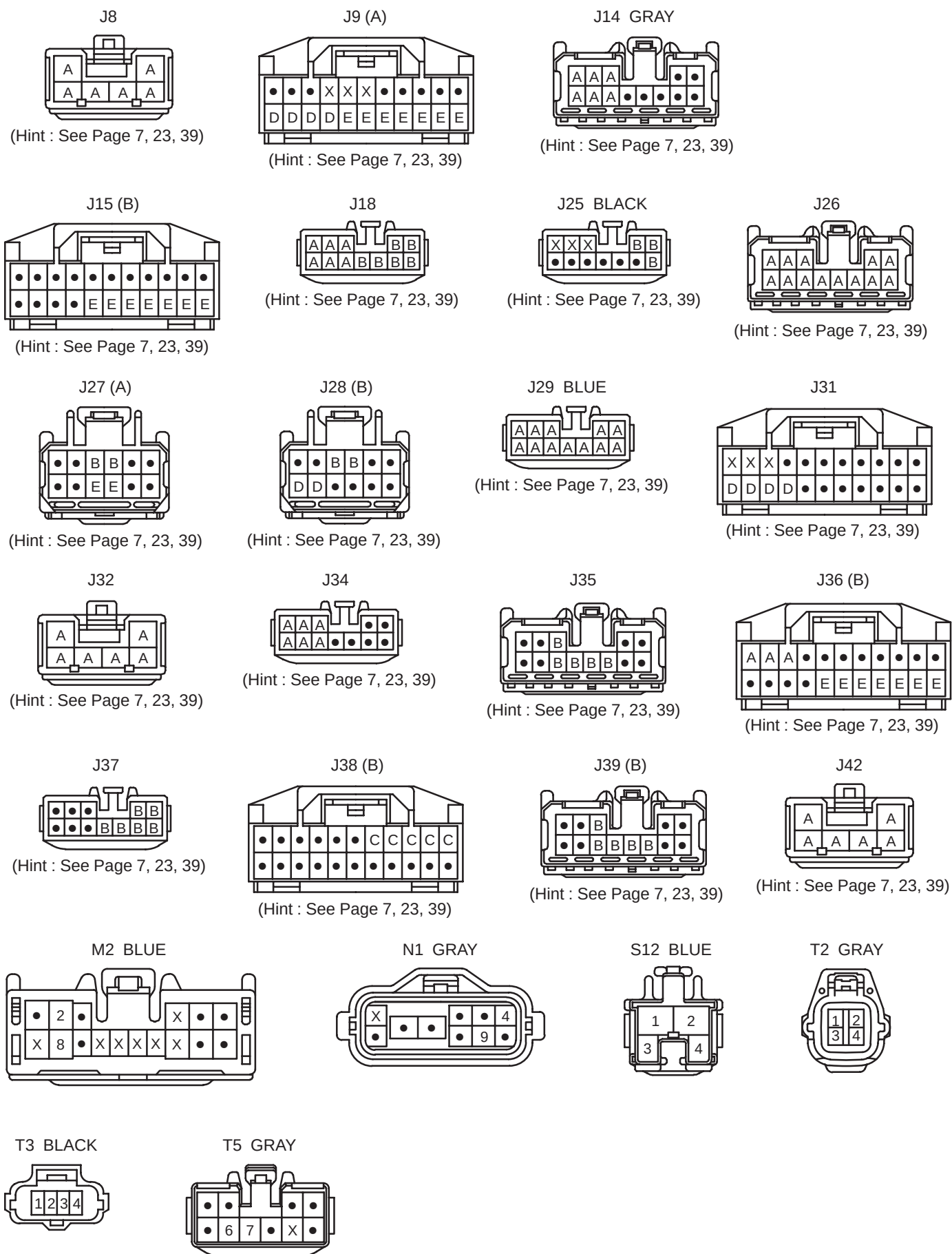


(Hint : See Page 7, 23, 39)

J7 (A) GRAY



(Hint : See Page 7, 23, 39)



## SERVICE HINTS

### C10 CLOCK

- 4-GROUND : Always approx. **12** volts (Power for clock)
- 5-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position (Power for indication)
- 1-GROUND : Always continuity

### ○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| B6   | 72 (LHD) | C10  | 86 (RHD) | J37  | 88 (RHD) |
|      | 86 (RHD) | J18  | 74 (LHD) |      |          |
| C10  | 72 (LHD) | J32  | 88 (RHD) |      |          |

### □ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

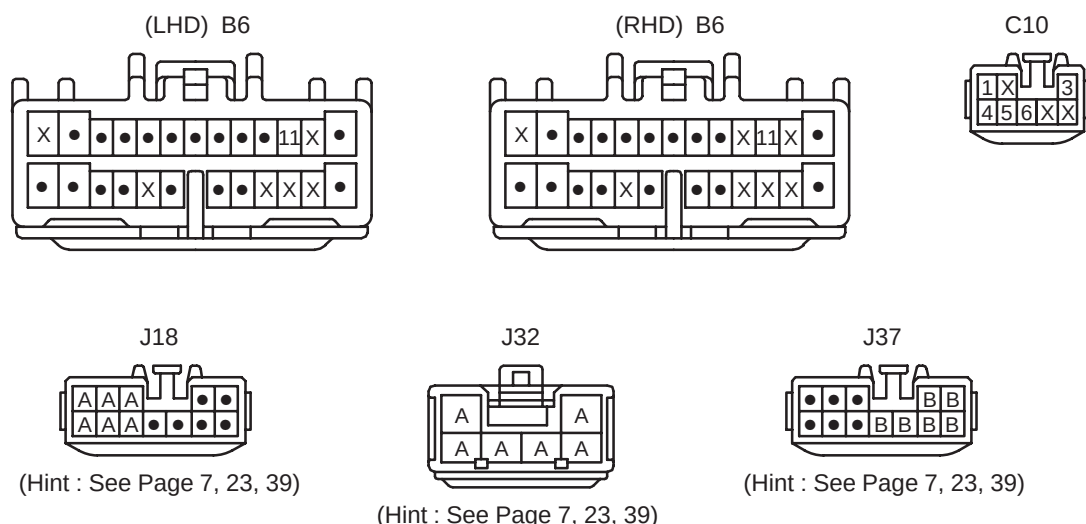
| Code | See Page | Junction Block and Wire Harness (Connector Location)                                   |
|------|----------|----------------------------------------------------------------------------------------|
| 1C   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)                            |
|      | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel)                           |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                                        |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                                       |
| 2H   | 61 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)                                    |
|      | 61 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)                                     |
| 3A   | 62       | Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Reinforcement Center) |
| 3B   |          |                                                                                        |
| 3G   | 63       |                                                                                        |

### □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)          |
|------|-----------|---------------------------------------------------------------------|
| ID3  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit) |
| IJ2  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)  |

### ▽ : GROUND POINTS

| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| IF   | 108 (RHD) | Left Kick Panel              |
| II   | 98 (LHD)  | Right Side of the Cowl Panel |



## SERVICE HINTS

### C9 CIGARETTE LIGHTER

1-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position

3-GROUND : Always continuity

### P4 POWER OUTLET

2-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position

1-GROUND : Always continuity



## : PARTS LOCATION

| Code | See Page | Code     | See Page | Code | See Page |
|------|----------|----------|----------|------|----------|
| C9   | 72 (LHD) | J18      | 74 (LHD) | P4   | 74 (LHD) |
|      | 86 (RHD) | J32      | 88 (RHD) |      | 88 (RHD) |
| J12  | A        | 74 (LHD) | J36      | B    | 88 (RHD) |



## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|------------------------------------------------------|
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)      |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)     |



## : GROUND POINTS

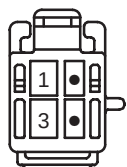
| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| IF   | 108 (RHD) | Left Kick Panel              |
| II   | 98 (LHD)  | Right Side of the Cowl Panel |



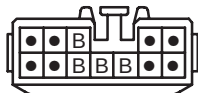
## : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| I2   | 110 (RHD) | Cowl Wire                       | I6   | 100 (LHD) | Cowl Wire                       |

C9 BLACK



J12 (A) GRAY



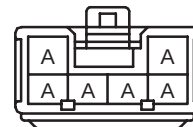
(Hint : See Page 7, 23, 39)

J18



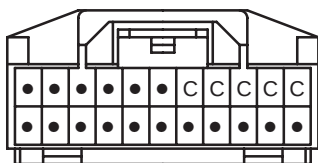
(Hint : See Page 7, 23, 39)

J32



(Hint : See Page 7, 23, 39)

J36 (B)



(Hint : See Page 7, 23, 39)

P4



# COMBINATION METER

## SERVICE HINTS

### B1 BRAKE FLUID LEVEL WARNING SW

1-2 : Closed with float down

### P3 PARKING BRAKE SW

1-GROUND : Closed with parking brake pedal depressed

### O2 OIL PRESSURE SW

1-GROUND : Closed with oil pressure below approx. **0.2 kgf/cm<sup>2</sup> (2.8 psi, 20 kpa)**

### E9 ENGINE OIL LEVEL SENSOR

1-2 : Closed with float up and engine oil temp. at below approx. **50°C (122°F)**  
Open with float down and engine oil temp. at above approx. **60°C (140°F)**

### F15 FUEL SENDER

2-3 : Approx. **2.0 Ω** at fuel full  
Approx. **48.7 Ω** at fuel empty

### C11 (A), C12 (B) COMBINATION METER

(A) 1-GROUND : Approx. **12 volts** with ignition SW at **ON** or **ST** position  
(A) 22-GROUND : Always continuity  
(B) 8-GROUND : Always continuity  
(A) 13-GROUND : Always approx. **12 volts**  
(A) 14-GROUND : Always approx. **12 volts**

## ○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| A16  | 72 (LHD) | E6   | E        | J37  | 88 (RHD) |
|      | 86 (RHD) |      |          |      | 88 (RHD) |
| A23  | 72 (LHD) | E9   | 82 (RHD) | J41  | 88 (RHD) |
|      | 86 (RHD) |      |          | J42  | 88 (RHD) |
| A24  | 72 (LHD) | F15  | 76 (LHD) | M2   | 74 (LHD) |
|      | 86 (RHD) |      | 90 (RHD) |      | 88 (RHD) |
| B1   | 68 (LHD) | F17  | 76 (LHD) | N3   | 78 (LHD) |
|      | 82 (RHD) |      | 90 (RHD) |      | 92 (RHD) |
| B5   | 72 (LHD) | I1   | 70 (LHD) | O2   | 70 (LHD) |
|      | 86 (RHD) |      | 84 (RHD) |      | 84 (RHD) |
| B6   | 72 (LHD) | J1   | 70 (LHD) | P3   | 74 (LHD) |
|      | 86 (RHD) | J2   | 70 (LHD) |      | 88 (RHD) |
| C11  | 72 (LHD) | J8   | 74 (LHD) | P5   | 74 (LHD) |
|      | 86 (RHD) | J10  | 74 (LHD) |      | 88 (RHD) |
| C12  | 72 (LHD) | J13  | A        | R8   | 74 (LHD) |
|      | 86 (RHD) | J15  | A        |      | 88 (RHD) |
| E2   | 68 (LHD) | J8   | 74 (LHD) | T5   | 74 (LHD) |
|      | 82 (RHD) | J18  | 74 (LHD) |      | 88 (RHD) |
| E3   | 68 (LHD) | J25  | 84 (RHD) | W1   | 70 (LHD) |
|      | 82 (RHD) | J29  | 84 (RHD) |      | 84 (RHD) |
| E5   | 68 (LHD) | J32  | 88 (RHD) |      |          |
|      | 82 (RHD) | J36  | B        |      |          |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)            |
|------|----------|-----------------------------------------------------------------|
| 1B   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
|      | 58 (RHD) | Engine Room Main Wire and Driver Side J/B (Right Kick Panel)    |
| 1D   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)     |
|      | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel)    |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                |
| 1G   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                |
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                |
| 2B   | 60 (LHD) | Engine Room Main Wire and Passenger Side J/B (Right Kick Panel) |
|      | 60 (RHD) | Engine Room Main Wire and Passenger Side J/B (Left Kick Panel)  |
| 2G   | 61 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)             |
|      | 61 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)              |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)              |
|------|-----------|-------------------------------------------------------------------------|
| EA3  | 96 (LHD)  | Engine Wire and Cowl Wire (Inside of the ECU Box)                       |
|      | 106 (RHD) |                                                                         |
| IC1  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                         |
|      | 108 (RHD) |                                                                         |
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)     |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column)  |
| IE2  |           |                                                                         |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)      |
|      | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |
| IJ2  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |
| IL3  | 100 (LHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                        |
| IM3  | 110 (RHD) |                                                                         |

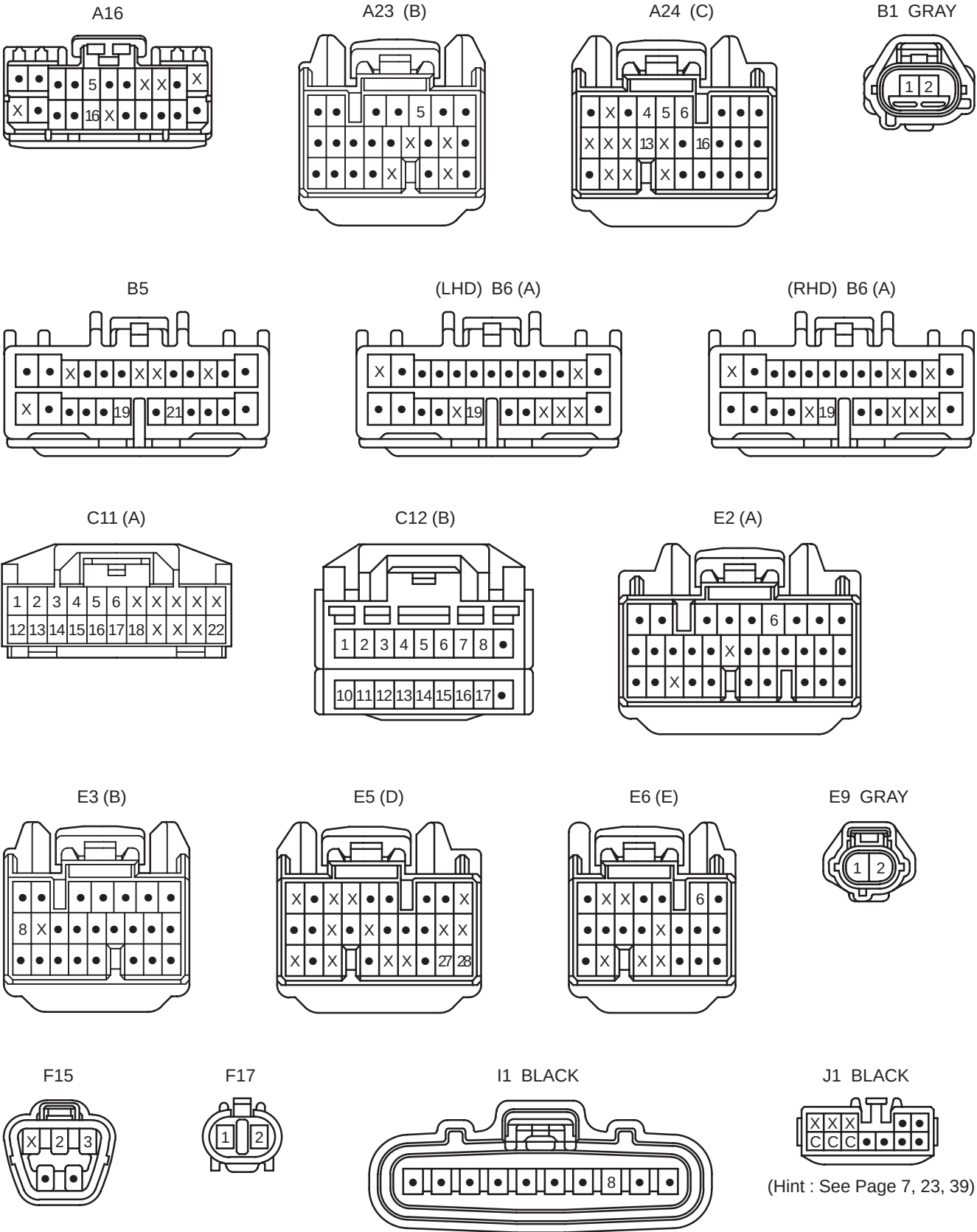
## : GROUND POINTS

| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EB   | 96 (LHD)  | Left Fender                        |
|      | 106 (RHD) |                                    |
| EC   | 96 (LHD)  | Front Side of the Intake Manifold  |
|      | 106 (RHD) |                                    |
| ED   | 96 (LHD)  | Rear Side of the Intake Manifold   |
|      | 106 (RHD) |                                    |
| EE   | 106 (RHD) | Under the ABS & TRC & VSC Actuator |
| IF   | 98 (LHD)  | Left Kick Panel                    |
|      | 108 (RHD) |                                    |
| II   | 98 (LHD)  | Right Side of the Cowl Panel       |
|      | 108 (RHD) | Cowl Side Panel RH                 |

## : SPLICE POINTS

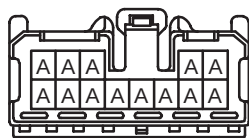
| Code | See Page | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|----------|---------------------------------|------|-----------|---------------------------------|
| E1   | 96 (LHD) | Engine Wire                     | E1   | 106 (RHD) | Engine Wire                     |

COMBINATION METER



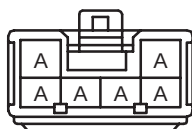


J2 ORANGE



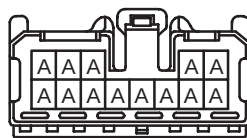
(Hint : See Page 7, 23, 39)

J8



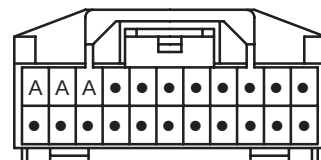
(Hint : See Page 7, 23, 39)

J10 ORANGE



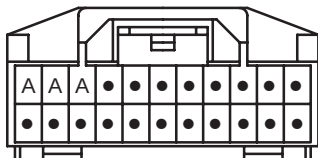
(Hint : See Page 7, 23, 39)

J13 (A)



(Hint : See Page 7, 23, 39)

J15 (A)



(Hint : See Page 7, 23, 39)

J18



(Hint : See Page 7, 23, 39)

J25 BLACK



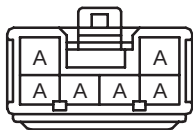
(Hint : See Page 7, 23, 39)

J29 BLUE



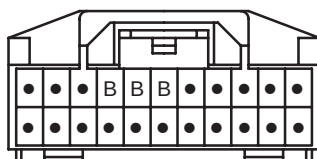
(Hint : See Page 7, 23, 39)

J32



(Hint : See Page 7, 23, 39)

J36 (B)



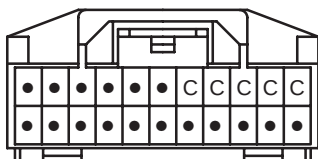
(Hint : See Page 7, 23, 39)

J37



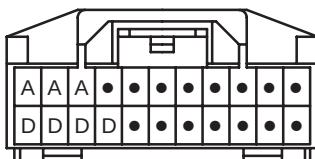
(Hint : See Page 7, 23, 39)

J38 (B)



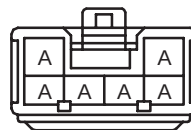
(Hint : See Page 7, 23, 39)

J41



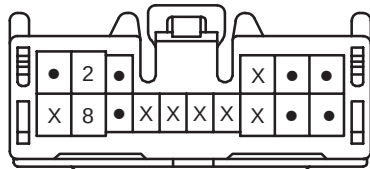
(Hint : See Page 7, 23, 39)

J42

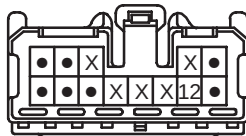


(Hint : See Page 7, 23, 39)

M2 BLUE



N3



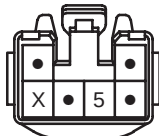
O2 GRAY



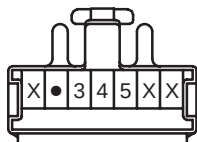
P3



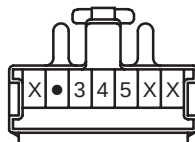
P5 BLUE



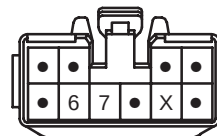
(LHD) R8



(RHD) R8 ORANGE



T5 GRAY



W1 BLACK



# CELLULAR MOBILE TELEPHONE

## SERVICE HINTS

### T8 (A) TELEPHONE TRANSCEIVER AND SPEAKER RELAY

(A) 9-GROUND : Always approx. **12** volts

(A)10-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

(A)11-GROUND : Always continuity

## ○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| C15  | 72 (LHD) | J22  | 78 (LHD) | T4   | 74 (LHD) |
|      | 86 (RHD) | J45  | 90 (RHD) |      | 88 (RHD) |
| C17  | A        | R15  | 78 (LHD) | T8   | A        |
|      | 90 (RHD) | R16  | 92 (RHD) |      | 92 (RHD) |
| C18  | B        | S10  | C        | T9   | B        |
|      | 90 (RHD) |      | 74 (LHD) |      | 78 (LHD) |
| J7   | 74 (LHD) | S11  | D        |      |          |
| J16  | 74 (LHD) |      | 88 (RHD) |      |          |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)      |
|------|----------|-----------------------------------------------------------|
| 1E   | 58 (RHD) | Floor No.1 Wire and Driver Side J/B (Right Kick Panel)    |
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)           |
| 2E   | 60 (LHD) | Floor No.1 Wire and Passenger Side J/B (Right Kick Panel) |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)       |

## □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)          |
|------|-----------|---------------------------------------------------------------------|
| IA1  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)   |
| IC2  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                     |
| ID2  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit) |
| II4  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)   |
| IJ3  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)  |
| IL1  | 100 (LHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                    |
| IL2  |           |                                                                     |
| IL3  |           |                                                                     |
| IM1  | 110 (RHD) |                                                                     |
| IM2  |           |                                                                     |
| IM3  |           |                                                                     |
| BA1  | 102 (LHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)  |
| BB1  | 112 (RHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)  |

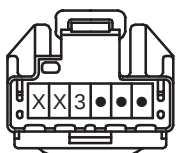
## ▽ : GROUND POINTS

| Code | See Page  | Ground Points Location |
|------|-----------|------------------------|
| BM   | 102 (LHD) | Quarter Panel RH       |
|      | 112 (RHD) |                        |

## ○ : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| I8   | 100 (LHD) | Floor No.1 Wire                 | I11  | 110 (RHD) | Floor No.1 Wire                 |

C15 BLACK



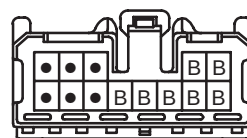
C17 (A)



C18 (B)

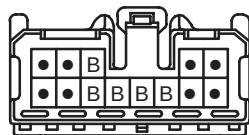


J7 GRAY



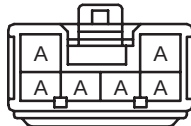
(Hint : See Page 7, 23, 39)

J16



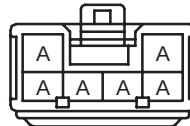
(Hint : See Page 7, 23, 39)

J22



(Hint : See Page 7, 23, 39)

J45



(Hint : See Page 7, 23, 39)

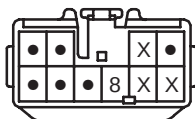
R15



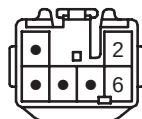
R16



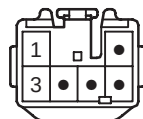
S10 (C)



(LHD) S11 (D)



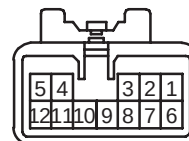
(RHD) S11 (D)



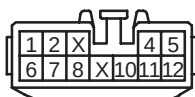
T4



T8 (A)



T9 (B)



## SERVICE HINTS

### A14 (A), A15 (B) ALTERNATOR

- (A) 1-GROUND : **13.9–15.1** volts with engine running at **2000** rpm and **25°C (77°F)**  
**13.5–14.3** volts with engine running at **5000** rpm and **115°C (239°F)**  
 (B) 3-GROUND : **0–4** volts with ignition SW at **ON** position and engine not running

## : PARTS LOCATION

| Code | See Page | Code     | See Page | Code | See Page |
|------|----------|----------|----------|------|----------|
| A14  | A        | 68 (LHD) | C12      | B    | 86 (RHD) |
|      |          | 82 (RHD) | E2       | A    | 68 (LHD) |
| A15  | B        | 68 (LHD) |          |      | 82 (RHD) |
|      |          | 82 (RHD) | E5       | D    | 68 (LHD) |
| A16  |          | 72 (LHD) |          |      | 82 (RHD) |
|      |          | 86 (RHD) | J1       |      | 70 (LHD) |
| C11  | A        | 72 (LHD) | J8       |      | 74 (LHD) |
|      |          | 86 (RHD) | J18      | A    | 74 (LHD) |
| C12  | B        | 72 (LHD) | J25      |      | 84 (RHD) |
|      |          |          |          | J32  | 88 (RHD) |
|      |          |          |          | J35  | B        |
|      |          |          |          | J37  | 88 (RHD) |
|      |          |          |          | J42  | 88 (RHD) |
|      |          |          |          | M2   | 74 (LHD) |
|      |          |          |          |      | 88 (RHD) |
|      |          |          |          | T5   | 74 (LHD) |
|      |          |          |          |      | 88 (RHD) |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)         |
|------|----------|--------------------------------------------------------------|
| 1D   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)  |
|      | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel) |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1G   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |

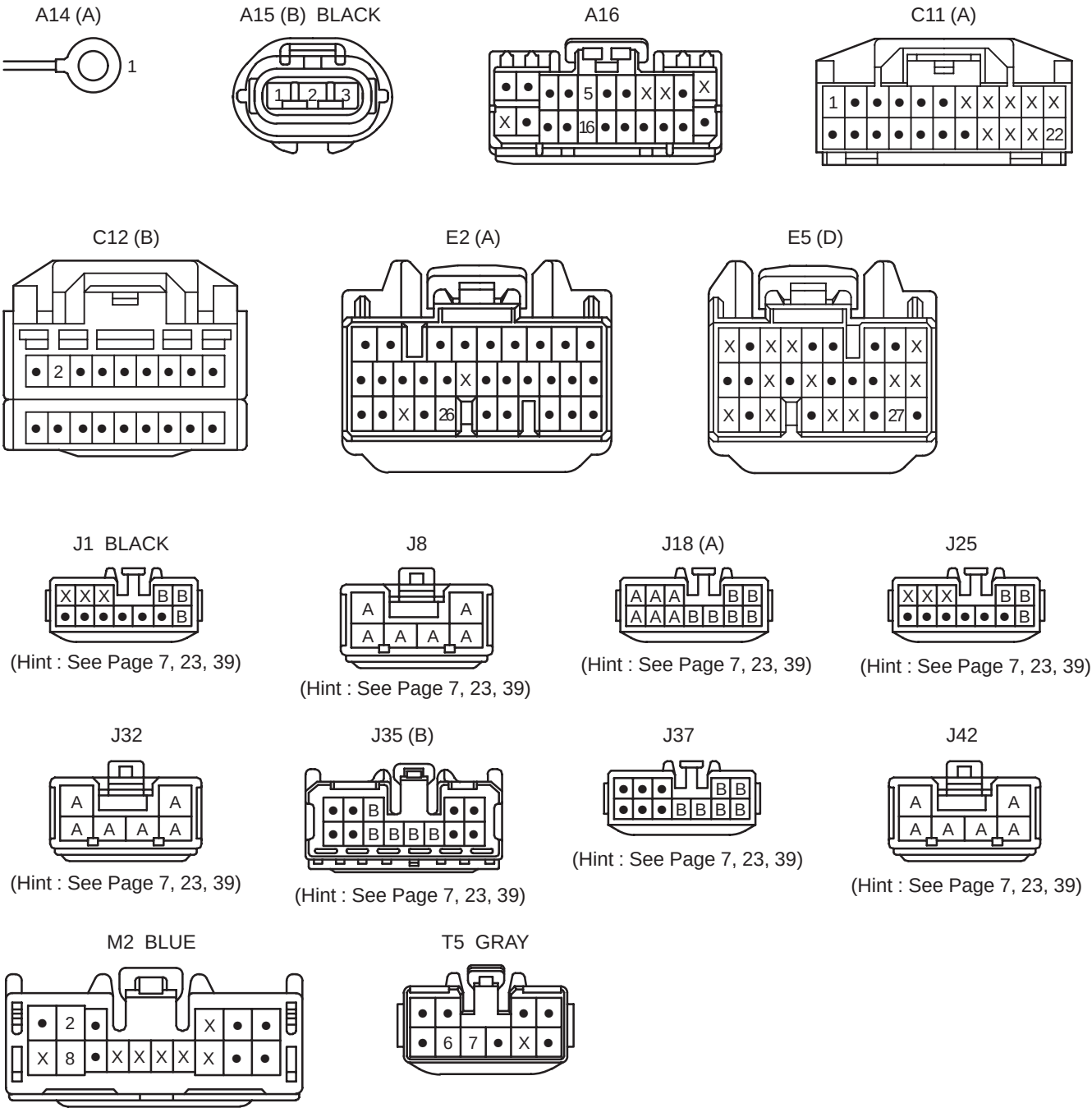
## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)              |
|------|-----------|-------------------------------------------------------------------------|
| EA1  | 96 (LHD)  | Engine Wire and Cowl Wire (Inside of the ECU Box)                       |
|      | 106 (RHD) |                                                                         |
| EA3  | 96 (LHD)  |                                                                         |
|      | 106 (RHD) |                                                                         |
| IA2  | 98 (LHD)  | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)          |
|      | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)     |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column)  |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)      |
|      | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |

## : GROUND POINTS

| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| IF   | 98 (LHD)  | Left Kick Panel              |
|      | 108 (RHD) |                              |
| II   | 98 (LHD)  | Right Side of the Cowl Panel |
|      | 108 (RHD) | Cowl Side Panel RH           |

CHARGING



## SYSTEM OUTLINE

Previous automatic transmissions have selected each gear shift using mechanically controlled throttle hydraulic pressure, governor hydraulic pressure and lock-up hydraulic pressure. The electronically controlled transmission, however, electrically controls the line pressure, throttle pressure, lock-up pressure and accumulator pressure etc. through the solenoid valve. The ECT is a system which precisely controls gear shift timing and lock-up timing in response to the vehicle's driving conditions and the engine condition detected by various sensors. It makes smooth driving possible by shift selection for each gear which is the most appropriate to the driving conditions at that time, and by preventing downing, squat and gear shift shock when starting off.

### 1. GEAR SHIFT OPERATION

When driving, the engine warm up condition is input as a signal to **TERMINAL THW** of the engine and ECT ECU from the water temp. sensor and the vehicle speed signal from speed sensor (ECT) is input to **TERMINAL SP2+** of the engine and ECT ECU. At the same time, the throttle valve opening signal from the throttle position sensor is input to **TERMINALS VTA** and **VTA2** of the engine and ECT ECU as throttle angle signal.

Based on these signals, the engine and ECT ECU selects the best shift position for the driving conditions and sends current to the ECT solenoid.

### 2. LOCK-UP OPERATION

When the engine and ECT ECU decides based on each signal that the lock-up condition has been met, the current flows through **TERMINAL SLU+** of the engine and ECT ECU to **TERMINAL 4** of the ECT solenoid to **TERMINAL 10** to **TERMINAL SLU-** of the engine and ECT ECU to **GROUND**.

### 3. STOP LIGHT SW CIRCUIT

If the brake pedal is depressed (Stop light SW on) when driving in lock-up condition, a signal is input to **TERMINAL STP** of the engine and ECT ECU. The engine and ECT ECU operates and cuts the current to the solenoid to release lock-up.

### 4. ECT PATTERN SELECT SW CIRCUIT

When the ECT pattern select SW is switched to **PWR**, a signal is input to **TERMINAL PWR** of the body ECU No.2, and control signals are distributed to the engine and ECT ECU through communication control of the body ECU. This enables shift-up and shift-down at a higher speed range.

# ECT AND A/T INDICATOR

## SERVICE HINTS

### E1 ECT SOLENOID

2-8 : **5.1-5.5** Ω

3-9 : **3.5-3.9** Ω

4-10 : **5.1-5.5** Ω

5, 6, 11, 12-GROUND : **11-15** Ω

### E11 ECT PATTERN SELECT SW

7-3 : Closed with select SW at **PWR** position

1-3 : Only closed with select SW at **SNOW** position

### S1 SPEED SENSOR (ECT)

1-2 : **560-680** Ω

### O1 O/D DIRECT CLUTCH SPEED SENSOR

1-2 : **560-680** Ω

### E3 (B), E5 (D), E6 (E) ENGINE AND ECT ECU

BATT-E1 : Always approx. **12** volts

+B-E1 : Approx. **12** volts with ignition SW **ON** or **ST** position

B2-E1 : Approx. **12** volts with ignition SW **ON** or **ST** position

MREL-E1 : Approx. **12** volts with ignition SW **ON** or **ST** position

STA-E1 : Approx. **12** volts with ignition SW **ST** position and shift lever other than **P** or **N** position

### N1 A/T INDICATOR LIGHT SW [NEUTRAL START SW]

4-7 : Closed with shift lever in **P** position

4-8 : Closed with shift lever in **R** position

4-10 : Closed with shift lever in **N** position

4-9 : Closed with shift lever in **D** position or **4** position

4-2 : Closed with shift lever in **3** position

4-3 : Closed with shift lever in **2** position or **L** position

## ○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code     | See Page |
|------|----------|------|----------|----------|----------|
| A10  | 68 (LHD) | E7   | F        | 82 (RHD) | J37      |
|      | 82 (RHD) | E11  |          | 72 (LHD) | J38      |
| A16  | 72 (LHD) |      |          | 86 (RHD) | J39      |
|      | 86 (RHD) | J1   |          | 70 (LHD) | J42      |
| B5   | A        | J2   |          | 70 (LHD) | K3       |
|      |          | J3   | A        | 70 (LHD) |          |
| C3   |          | J4   | B        | 70 (LHD) | M2       |
|      |          | J5   |          | 70 (LHD) |          |
| C11  | A        | J7   | A        | 74 (LHD) | N1       |
|      |          | J8   |          | 74 (LHD) |          |
| C12  | B        | J9   |          | 74 (LHD) | O1       |
|      |          | J10  |          | 74 (LHD) |          |
| E1   |          | J14  |          | 74 (LHD) | S1       |
|      |          | J15  |          | 74 (LHD) |          |
| E2   | A        | J18  |          | 74 (LHD) | S5       |
|      |          | J25  |          | 84 (RHD) |          |
| E3   | B        | J26  |          | 84 (RHD) | S12      |
|      |          | J27  | A        | 84 (RHD) |          |
| E4   | C        | J28  | B        | 84 (RHD) | T3       |
|      |          | J29  |          | 84 (RHD) |          |
| E5   | D        | J31  |          | 88 (RHD) | T5       |
|      |          | J32  |          | 88 (RHD) |          |
| E6   | E        | J34  |          | 88 (RHD) | W3       |
|      |          | J35  |          | 88 (RHD) |          |
| E7   | F        | J36  |          | 88 (RHD) |          |

 : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)         |
|------|----------|--------------------------------------------------------------|
| 1D   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)  |
|      | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel) |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1G   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)              |
|------|-----------|-------------------------------------------------------------------------|
| EA1  | 96 (LHD)  | Engine Wire and Cowl Wire (Inside of the ECU Box)                       |
|      | 106 (RHD) |                                                                         |
| EA2  | 96 (LHD)  |                                                                         |
|      | 106 (RHD) |                                                                         |
| EA3  | 96 (LHD)  |                                                                         |
|      | 106 (RHD) |                                                                         |
| EA4  | 96 (LHD)  |                                                                         |
|      | 106 (RHD) |                                                                         |
| IA1  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
| IA2  | 98 (LHD)  | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)          |
|      | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
| IA3  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)     |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column)  |
| II1  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
|      |           |                                                                         |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)      |
|      | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |

 : GROUND POINTS

| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EB   | 96 (LHD)  | Left Fender                        |
|      | 106 (RHD) |                                    |
| EC   | 96 (LHD)  | Front Side of the Intake Manifold  |
|      | 106 (RHD) |                                    |
| ED   | 96 (LHD)  | Rear Side of the Intake Manifold   |
|      | 106 (RHD) |                                    |
| EE   | 96 (LHD)  | Under the ABS & TRC & VSC Actuator |
|      | 106 (RHD) |                                    |
| IF   | 98 (LHD)  | Left Kick Panel                    |
|      | 108 (RHD) |                                    |
| II   | 98 (LHD)  | Right Side of the Cowl Panel       |
|      | 108 (RHD) | Cowl Side Panel RH                 |



ECT AND A/T INDICATOR

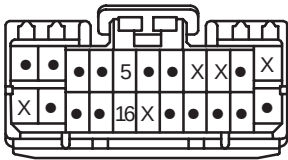
 : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| E1   | 96 (LHD)  | Engine Wire                     | E2   | 106 (RHD) | Engine Wire                     |
|      | 106 (RHD) |                                 | E4   | 96 (LHD)  | Cowl Wire                       |
| E2   | 96 (LHD)  |                                 |      | 106 (RHD) |                                 |

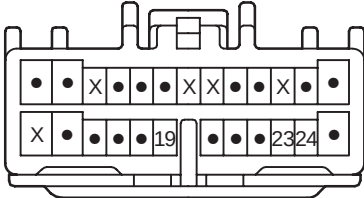
A10 BLACK



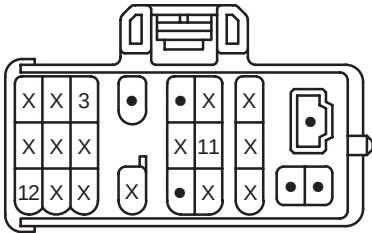
A16



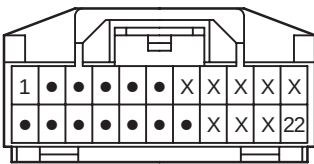
B5 (A)



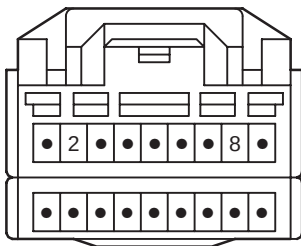
C3 BLACK



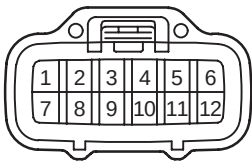
C11 (A)



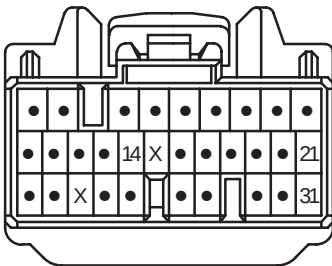
C12 (B)



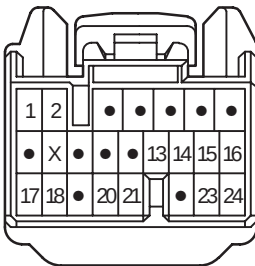
E1 GRAY



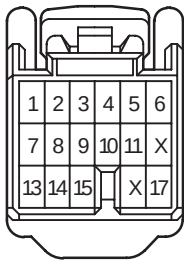
E2 (A)



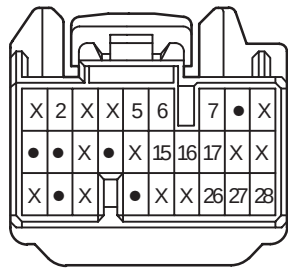
E3 (B)



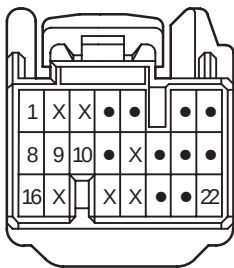
E4 (C)



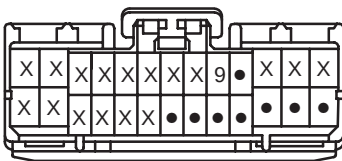
E5 (D)



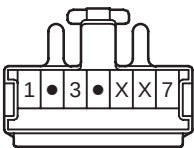
E6 (E)



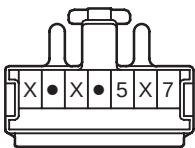
E7 (F)



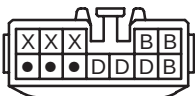
(Except G.C.C.) E11 BLACK



(G.C.C.) E11

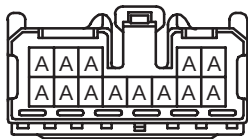


J1 BLACK

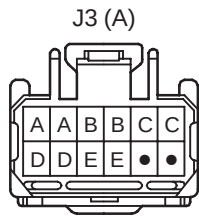


(Hint : See Page 7, 23, 39)

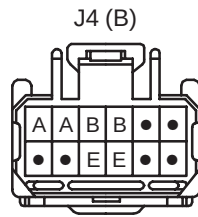
J2 ORANGE



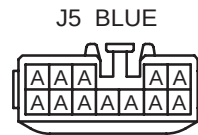
(Hint : See Page 7, 23, 39)



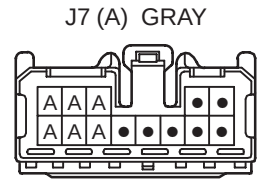
(Hint : See Page 7, 23, 39)



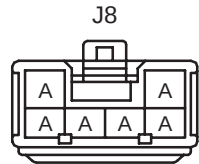
(Hint : See Page 7, 23, 39)



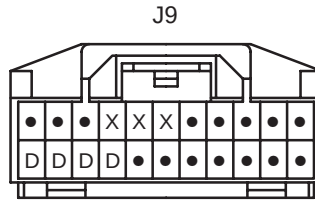
(Hint : See Page 7, 23, 39)



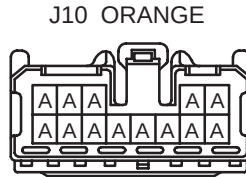
(Hint : See Page 7, 23, 39)



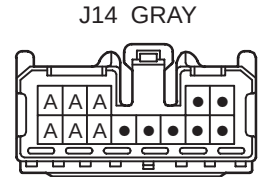
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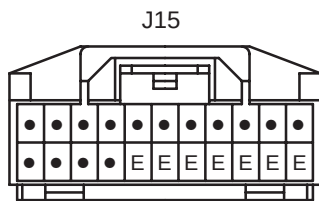
(Hint : See Page 7, 23, 39)



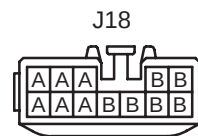
(Hint : See Page 7, 23, 39)



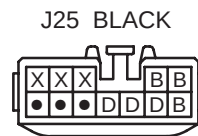
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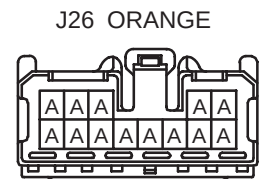
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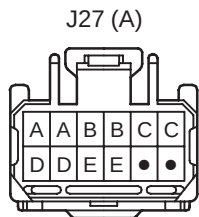
(Hint : See Page 7, 23, 39)



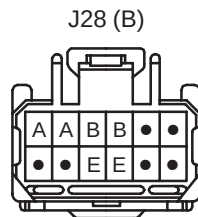
(Hint : See Page 7, 23, 39)



(Hint : See Page 7, 23, 39)



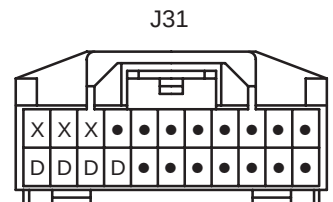
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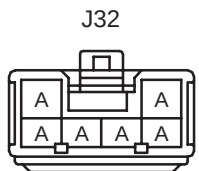
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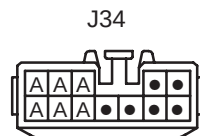
(Hint : See Page 7, 23, 39)



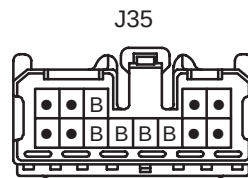
(Hint : See Page 7, 23, 39)



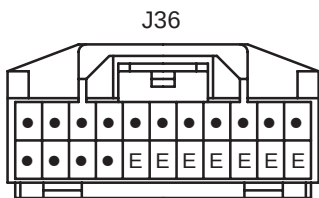
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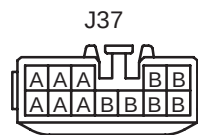
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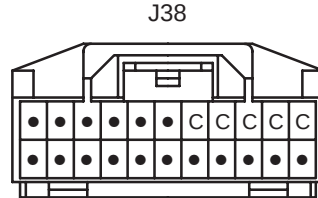
(Hint : See Page 7, 23, 39)



(Hint : See Page 7, 23, 39)



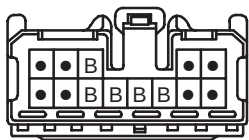
(Hint : See Page 7, 23, 39)



(Hint : See Page 7, 23, 39)

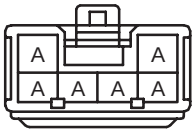
# ECT AND A/T INDICATOR

J39 (B)



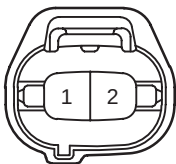
(Hint : See Page 7, 23, 39)

J42

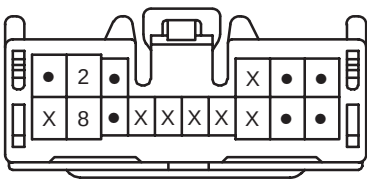


(Hint : See Page 7, 23, 39)

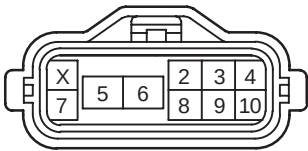
K3 BLACK



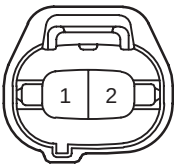
M2 BLUE



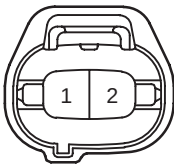
N1 GRAY



O1 BLACK



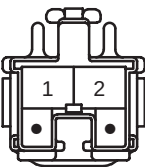
S1 BLACK



S5



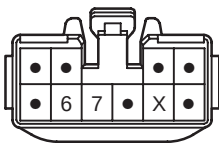
S12 BLUE



T3 BLACK



T5 GRAY



W3 BLACK



## SYSTEM OUTLINE

The engine control system utilizes a microcomputer and maintains overall control of the engine, transmission etc. An outline of the engine control is given here.

### 1. INPUT SIGNALS

- (1) Engine coolant temp. signal circuit  
The water temp. sensor detects the engine coolant temp. and has a built-in thermister with a resistance, which varies according to the engine coolant temp.. The engine coolant temp. which is input into **TERMINAL THW** of the engine and ECT ECU as a control signal.
- (2) Intake air temp. signal circuit  
The intake air temp. sensor is installed in the air flow meter and detects the intake air temp. which is input as a control signal to **TERMINAL THA** of the engine and ECT ECU.
- (3) Oxygen density signal circuit  
The oxygen density in the exhaust emission is detected by the heated oxygen sensors and input as a control signal to **TERMINALS OX1A, OX2A, OX1B** and **OX2B** of the engine and ECT ECU.
- (4) RPM signal circuit  
Camshaft position is detected by the camshaft position sensor and its signal is input to **TERMINAL G2** of the engine and ECT ECU as a control signal.  
Also, engine RPM is detected by the crankshaft position sensor and is input as a control signal to **TERMINAL NE+**.
- (5) Throttle position signal circuit  
The throttle position sensor detects the throttle valve opening angle as a control signal, which is input into **TERMINAL VTA** of the engine and ECT ECU.
- (6) Vehicle speed circuit  
The speed sensor (ECT) detects the vehicle speed and inputs a control signal to **TERMINAL SP2+** of the engine and ECT ECU.
- (7) Battery signal circuit  
Voltage is constantly applied to **TERMINAL BATT** of the engine and ECT ECU. With the ignition SW turned on, the voltage for engine and ECT ECU start-up power supply is applied to **TERMINALS +B, B2** of the engine and ECT ECU via the EFI relay.  
The current flowing through the **IGN** fuse flows to **TERMINAL IGSW** of the engine and ECT ECU.  
Voltage is constantly applied to **TERMINAL BM** of the engine and ECT ECU.
- (8) Intake air volume signal circuit  
Intake air volume is detected by the air flow meter and the signal is input to **TERMINAL VG** of the engine and ECT ECU as a control signal.
- (9) Stop light SW signal circuit  
The stop light SW is used to detect whether the vehicle is braking or not and the signal is input into **TERMINAL STP** of the engine and ECT ECU as a control signal.
- (10) Starter signal circuit  
To confirm whether the engine is cranking, the voltage is applied to the starter motor during cranking is detected and the signal is input into **TERMINAL STA** of the engine and ECT ECU as a control signal.
- (11) Engine knock signal circuit  
Engine knocking is detected by knock sensors and the signal is input into **TERMINALS KNK1** and **KNK2** as a control signal.

## 2. CONTROL SYSTEM

- \* EFI system

The EFI system monitors the engine condition through the signals input from each sensor (Input signals from (1) to (11) etc.) to the engine and ECT ECU. And the control signal is output to **TERMINALS #10, #20, #30, #40, #50 and #60** of the engine and ECT ECU to operate the injector (Inject the fuel). The EFI system controls the fuel injection operation by the engine and ECT ECU in response to the driving conditions.

- \* ESA system

The ESA system monitors the engine condition through the signals input to the engine and ECT ECU from each sensor (Input signals from (1), (2), (4), to (11) etc.). The best ignition timing is decided according to this data and the memorized data in the engine and ECT ECU and the control signal is output to **TERMINALS IGT, IGT2, IGT3**. This signal controls the igniter to provide the best ignition timing for the driving conditions.

- \* Heated oxygen sensor heater control system

The heated oxygen sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emissions is low), and warms up the oxygen sensors to improve detection performance of the sensors. The engine and ECT ECU evaluates the signals from each sensor (Input signals from (1), (2), (4), (7), to (9) etc.), and outputs current to **TERMINALS HT1A, HT2A, HT1B and HT2B** to control the heater.

- \* Fuel pump control system

The engine and ECT ECU outputs current to **TERMINAL FPC** and controls the fuel pump control ECU and fuel pump drive speed in response to the driving conditions.

- \* ACIS

ACIS includes a valve in the bulkhead separating the surge tank into two parts. This valve is opened and closed in accordance with the driving conditions to control the intake manifold length in two stages for increased engine output in all ranges from low to high speeds.

- \* ETCS-i

The ETCS-i controls the engine output at its optimal level corresponding to the opening of the accel. pedal under all driving conditions.

- \* MPX

The MPX communicates with the combination meter, A/C control assembly, as well as body ECU of the multiplex communication system

## 3. DIAGNOSIS SYSTEM

With the diagnosis system, when there is a malfunction in the engine and ECT ECU signal system, the malfunctioning system is recorded in the memory. The malfunctioning system can be found by reading the code displayed by the check engine warning light.

## 4. FAIL-SAFE SYSTEM

When a malfunction has occurred in any system, if there is a possibility of engine trouble being caused by continued control based on the signals from that system, the fail-safe system either controls the system by using data (Standard values) recorded in the engine and ECT ECU memory or else stops the engine.

## SERVICE HINTS

### EFI RELAY

5-3 : Closed with ignition SW at **ON** or **ST** position

### W3 WATER TEMP. SENSOR

1-2 : Approx. **15.0 kΩ** (**-20°C**, **-4°F**)  
 Approx. **2.45 kΩ** (**20°C**, **68°F**)  
 Approx. **0.32 kΩ** (**80°C**, **176°F**)  
 Approx. **0.14 kΩ** (**110°C**, **230°F**)

### E2 (A), E3 (B), E5 (D), E6 (E) ENGINE AND ECT ECU

BATT-GROUND : Always approx. **12** volts  
 BM-GROUND : Always approx. **12** volts  
 IGSW-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position  
 +B, B2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position  
 VC-GROUND : **4.5-5.5** volts with ignition SW on  
 VTA2-GROUND : **2.0-2.9** volts with ignition SW on and throttle valve fully closed  
                   **4.6-5.0** volts with ignition SW on and throttle valve fully opened  
 VTA-GROUND : **0.4-1.0** volts with ignition SW on and throttle valve fully closed  
                   **3.2-4.8** volts with ignition SW on and throttle valve fully opened  
 VPA-GROUND : **0.25-0.9** volts with ignition SW at on and accelerator fully closed  
                   **3.2-4.8** volts with ignition SW at on and accelerator fully opened  
 VPA2-GROUND : **1.8-2.7** volts with ignition SW at on and accelerator fully closed  
                   **4.7-5.0** volts with ignition SW at on and accelerator fully opened  
 THA-GROUND : **0.5-3.4** volts with idling, intake air temp. **20°C (68°F)**  
 THW-GROUND : **0.2-1.0** volts with idling, coolant temp. **80°C (176°F)**  
 STA-GROUND : **6.0** volts or more with cranking  
 TC-GROUND : **9.0-14.0** volts with ignition SW on  
 W-GROUND : **9.0-14.0** volts with idling  
                   **0-3.0** volts with ignition SW on  
 ACMG-GROUND : **0-1.5** volts with A/C SW on (at idling)  
                   **7.5-14.0** volts with A/C SW off and throttle valve fully open  
 #10, #20, #30, #40, #50, #60-GROUND : **9.0-14.0** volts with ignition SW on pulse generation with idling

### I5, I6, I7, I8, I9, I10 INJECTOR NO.1, NO.2, NO.3, NO.4, NO.5, NO.6

1-2 : **13.4-14.2 Ω**

## ○ : PARTS LOCATION

| Code | See Page   | Code | See Page   | Code | See Page |
|------|------------|------|------------|------|----------|
| A10  | 68 (LHD)   | H14  | 68 (LHD)   | J14  | 74 (LHD) |
| A11  | 68 (LHD)   | H15  | 68 (LHD)   | J15  | 74 (LHD) |
| A16  | 72 (LHD)   | H16  | 68 (LHD)   | J16  | 74 (LHD) |
| A23  | 72 (LHD)   | H23  | 72 (LHD)   | J18  | 74 (LHD) |
| B5   | 72 (LHD)   | I1   | 70 (LHD)   | J21  | 78 (LHD) |
| C1   | 68 (LHD)   | I5   | 70 (LHD)   | K1   | 70 (LHD) |
| C2   | 68 (LHD)   | I6   | 70 (LHD)   | K2   | 70 (LHD) |
| C3   | 68 (LHD)   | I7   | 70 (LHD)   | M2   | 74 (LHD) |
| C4   | 68 (LHD)   | I8   | 70 (LHD)   | N1   | 70 (LHD) |
| C11  | A 72 (LHD) | I9   | 70 (LHD)   | P1   | 70 (LHD) |
| C12  | B 72 (LHD) | I10  | 70 (LHD)   | S1   | 70 (LHD) |
| D2   | 72 (LHD)   | I12  | 72 (LHD)   | S12  | 74 (LHD) |
| E2   | A 68 (LHD) | J2   | 70 (LHD)   | T2   | 70 (LHD) |
| E3   | B 68 (LHD) | J3   | A 70 (LHD) | T3   | 70 (LHD) |
| E4   | C 68 (LHD) | J4   | B 70 (LHD) | T5   | 74 (LHD) |
| E5   | D 68 (LHD) | J5   | 70 (LHD)   | T6   | 74 (LHD) |
| E6   | E 68 (LHD) | J7   | 74 (LHD)   | V1   | 70 (LHD) |
| E7   | F 68 (LHD) | J8   | 74 (LHD)   | V2   | 70 (LHD) |
| F15  | 76 (LHD)   | J9   | 74 (LHD)   | V3   | 70 (LHD) |
| F16  | 76 (LHD)   | J10  | 74 (LHD)   | W3   | 70 (LHD) |

## ENGINE CONTROL (LHD)

### : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |

### : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)        |
|------|----------|-------------------------------------------------------------|
| 1A   | 58 (LHD) | Engine Room Main Wire and Driver Side J/B (Left Kick Panel) |
| 1D   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel) |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)             |
| 1G   | 59 (LHD) |                                                             |
| 1H   |          |                                                             |
| 1J   |          |                                                             |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)         |
| 2G   | 61 (LHD) |                                                             |

### : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

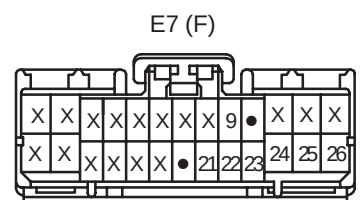
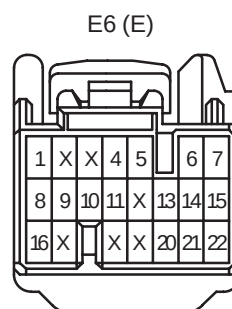
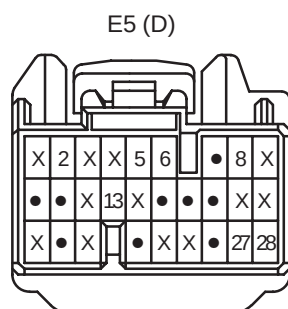
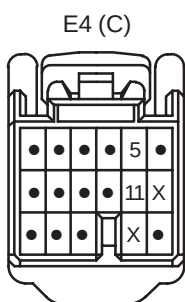
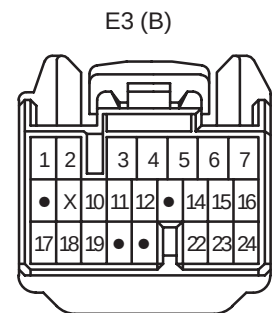
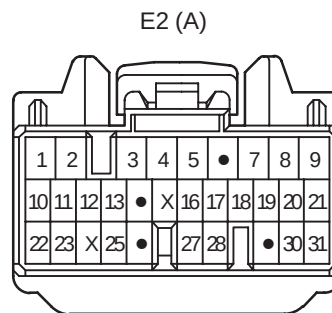
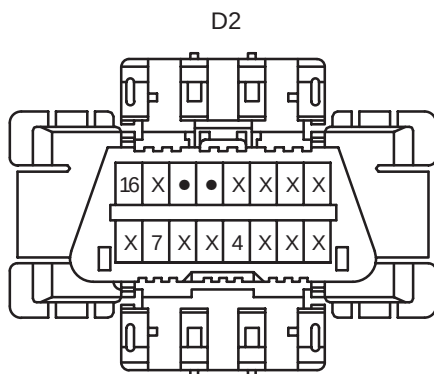
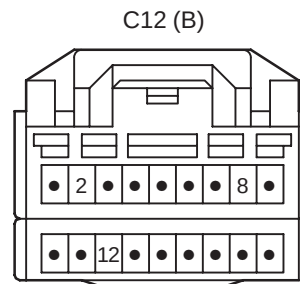
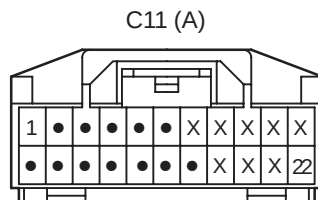
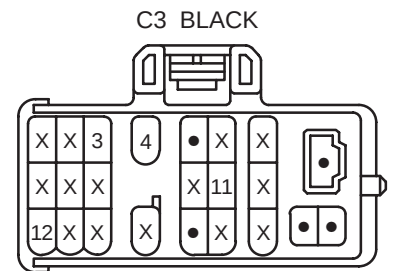
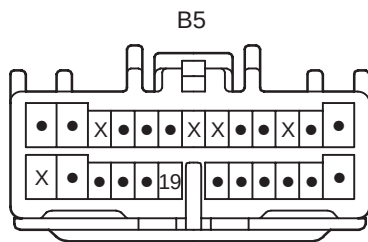
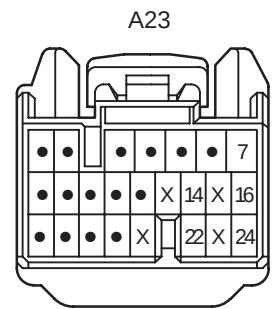
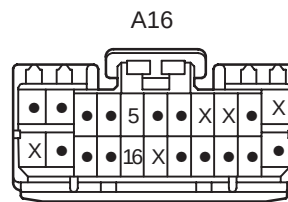
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)             |
|------|-----------|------------------------------------------------------------------------|
| EA1  | 96 (LHD)  | Engine Wire and Cowl Wire (Inside of the ECU Box)                      |
| EA2  |           |                                                                        |
| EA3  |           |                                                                        |
| EA4  |           |                                                                        |
| IA1  | 98 (LHD)  | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)         |
| IA2  |           |                                                                        |
| IC2  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                        |
| IC3  |           |                                                                        |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column) |
| II1  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)      |
| II4  |           |                                                                        |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)     |

### : GROUND POINTS

| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EB   | 96 (LHD)  | Left Fender                        |
| EC   | 96 (LHD)  | Front Side of the Intake Manifold  |
| ED   | 96 (LHD)  | Rear Side of the Intake Manifold   |
| EE   | 96 (LHD)  | Under the ABS & TRC & VSC Actuator |
| IF   | 98 (LHD)  | Left Kick Panel                    |
| II   | 98 (LHD)  | Right Side of the Cowl Panel       |
| BJ   | 102 (LHD) | Rear Floor Partition Panel LH      |
| BK   | 102 (LHD) | Quarter Panel LH                   |

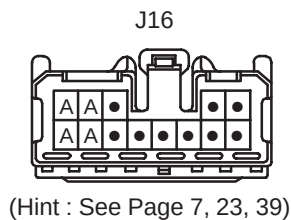
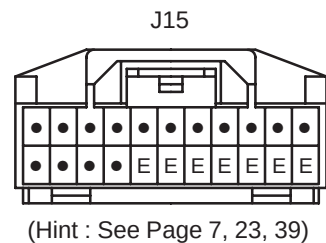
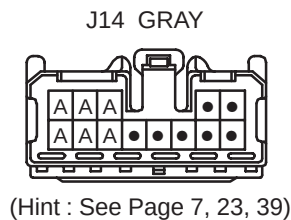
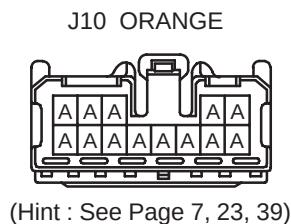
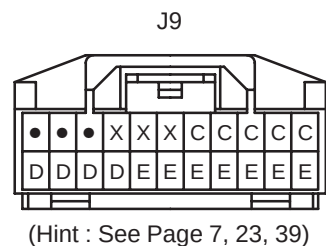
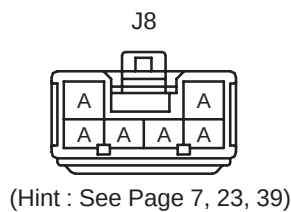
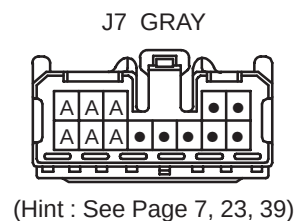
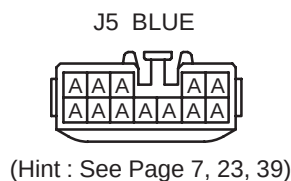
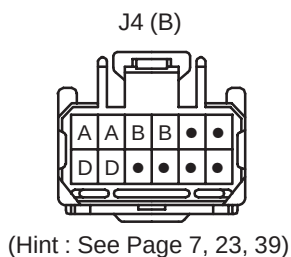
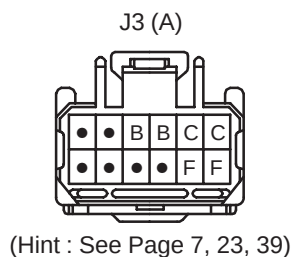
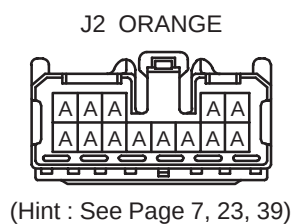
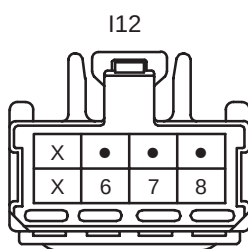
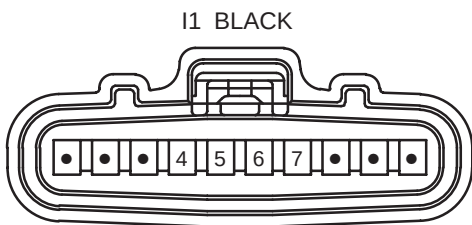
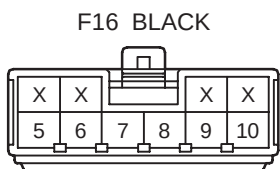
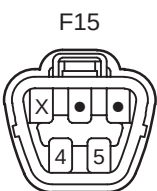
### : SPLICE POINTS

| Code | See Page | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|----------|---------------------------------|------|----------|---------------------------------|
| E1   | 96 (LHD) | Engine Wire                     | E3   | 96 (LHD) | Engine Wire                     |
| E2   |          |                                 | E4   | 96 (LHD) | Cowl Wire                       |





# ENGINE CONTROL (LHD)

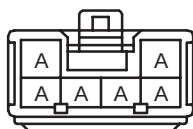


J18



(Hint : See Page 7, 23, 39)

J21



(Hint : See Page 7, 23, 39)

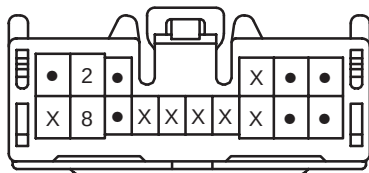
K1 DARK GRAY



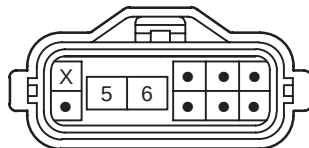
K2 DARK GRAY



M2 BLUE



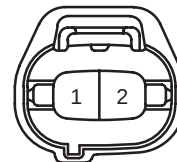
N1 GRAY



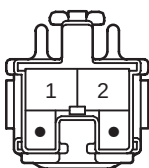
P1 DARK GRAY



S1 BLACK



S12 BLUE



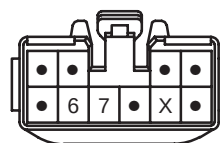
T2 GRAY



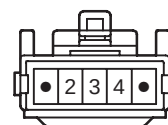
T3 BLACK



T5 GRAY



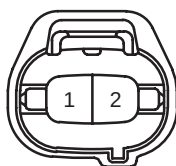
T6



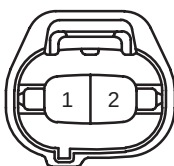
V1 BLACK



V2 BROWN



V3 BLUE



W3 BLACK



## SYSTEM OUTLINE

The engine control system utilizes a microcomputer and maintains overall control of the engine, transmission etc. An outline of the engine control is given here.

### 1. INPUT SIGNALS

- (1) Engine coolant temp. signal circuit  
The water temp. sensor detects the engine coolant temp. and has a built-in thermister with a resistance, which varies according to the engine coolant temp.. The engine coolant temp. which is input into **TERMINAL THW** of the engine and ECT ECU as a control signal.
- (2) Intake air temp. signal circuit  
The intake air temp. sensor is installed in the air flow meter and detects the intake air temp. which is input as a control signal to **TERMINAL THA** of the engine and ECT ECU.
- (3) Oxygen density signal circuit  
The oxygen density in the exhaust emission is detected by the heated oxygen sensors and input as a control signal to **TERMINALS OX1A, OX2A, OX1B** and **OX2B** of the engine and ECT ECU.
- (4) RPM signal circuit  
Camshaft position is detected by the camshaft position sensor and its signal is input to **TERMINAL G2** of the engine and ECT ECU as a control signal.  
Also, engine RPM is detected by the crankshaft position sensor and is input as a control signal to **TERMINAL NE+**.
- (5) Throttle position signal circuit  
The throttle position sensor detects the throttle valve opening angle as a control signal, which is input into **TERMINAL VTA** of the engine and ECT ECU.
- (6) Vehicle speed circuit  
The speed sensor (ECT) detects the vehicle speed and inputs a control signal to **TERMINAL SP2+** of the engine and ECT ECU.
- (7) Battery signal circuit  
Voltage is constantly applied to **TERMINAL BATT** of the engine and ECT ECU. With the ignition SW turned on, the voltage for engine and ECT ECU start-up power supply is applied to **TERMINALS +B, B2** of the engine and ECT ECU via the EFI relay.  
The current flowing through the **IGN** fuse flows to **TERMINAL IGSW** of the engine and ECT ECU.  
Voltage is constantly applied to **TERMINAL BM** of the engine and ECT ECU.
- (8) Intake air volume signal circuit  
Intake air volume is detected by the air flow meter and the signal is input to **TERMINAL VG** of the engine and ECT ECU as a control signal.
- (9) Stop light SW signal circuit  
The stop light SW is used to detect whether the vehicle is braking or not and the signal is input into **TERMINAL STP** of the engine and ECT ECU as a control signal.
- (10) Starter signal circuit  
To confirm whether the engine is cranking, the voltage is applied to the starter motor during cranking is detected and the signal is input into **TERMINAL STA** of the engine and ECT ECU as a control signal.
- (11) Engine knock signal circuit  
Engine knocking is detected by knock sensors and the signal is input into **TERMINALS KNK1** and **KNK2** as a control signal.

## 2. CONTROL SYSTEM

- \* EFI system

The EFI system monitors the engine condition through the signals input from each sensor (Input signals from (1) to (11) etc.) to the engine and ECT ECU. And the control signal is output to **TERMINALS #10, #20, #30, #40, #50 and #60** of the engine and ECT ECU to operate the injector (Inject the fuel). The EFI system controls the fuel injection operation by the engine and ECT ECU in response to the driving conditions.

- \* ESA system

The ESA system monitors the engine condition through the signals input to the engine and ECT ECU from each sensor (Input signals from (1), (2), (4), to (11) etc.). The best ignition timing is decided according to this data and the memorized data in the engine and ECT ECU and the control signal is output to **TERMINALS IGT, IGT2, IGT3**. This signal controls the igniter to provide the best ignition timing for the driving conditions.

- \* Heated oxygen sensor heater control system

The heated oxygen sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emissions is low), and warms up the oxygen sensors to improve detection performance of the sensors. The engine and ECT ECU evaluates the signals from each sensor (Input signals from (1), (2), (4), (7), to (9) etc.), and outputs current to **TERMINALS HT1A, HT2A, HT1B and HT2B** to control the heater.

- \* Fuel pump control system

The engine and ECT ECU outputs current to **TERMINAL FPC** and controls the fuel pump control ECU and fuel pump drive speed in response to the driving conditions.

- \* ACIS

ACIS includes a valve in the bulkhead separating the surge tank into two parts. This valve is opened and closed in accordance with the driving conditions to control the intake manifold length in two stages for increased engine output in all ranges from low to high speeds.

- \* ETCS-i

The ETCS-i controls the engine output at its optimal level corresponding to the opening of the accel. pedal under all driving conditions.

- \* MPX

The MPX communicates with the combination meter, A/C control assembly, as well as body ECU of the multiplex communication system

## 3. DIAGNOSIS SYSTEM

With the diagnosis system, when there is a malfunction in the engine and ECT ECU signal system, the malfunctioning system is recorded in the memory. The malfunctioning system can be found by reading the code displayed by the check engine warning light.

## 4. FAIL-SAFE SYSTEM

When a malfunction has occurred in any system, if there is a possibility of engine trouble being caused by continued control based on the signals from that system, the fail-safe system either controls the system by using data (Standard values) recorded in the engine and ECT ECU memory or else stops the engine.

## SERVICE HINTS

### EFI RELAY

5-3 : Closed with ignition SW at **ON** or **ST** position

### W3 WATER TEMP. SENSOR

1-2 : Approx. **15.0 kΩ** (**-20°C**, **-4°F**)  
 Approx. **2.45 kΩ** (**20°C**, **68°F**)  
 Approx. **0.32 kΩ** (**80°C**, **176°F**)  
 Approx. **0.14 kΩ** (**110°C**, **230°F**)

### E2 (A), E3 (B), E5 (D), E6 (E) ENGINE AND ECT ECU

BATT-GROUND : Always approx. **12** volts  
 BM-GROUND : Always approx. **12** volts  
 IGSW-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position  
 +B, B2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position  
 VC-GROUND : **4.5-5.5** volts with ignition SW on  
 VTA2-GROUND : **2.0-2.9** volts with ignition SW on and throttle valve fully closed  
                   **4.6-5.0** volts with ignition SW on and throttle valve fully opened  
 VTA-GROUND : **0.4-1.0** volts with ignition SW on and throttle valve fully closed  
                   **3.2-4.8** volts with ignition SW on and throttle valve fully opened  
 VPA-GROUND : **0.25-0.9** volts with ignition SW at on and accelerator fully closed  
                   **3.2-4.8** volts with ignition SW at on and accelerator fully opened  
 VPA2-GROUND : **1.8-2.7** volts with ignition SW at on and accelerator fully closed  
                   **4.7-5.0** volts with ignition SW at on and accelerator fully opened  
 THA-GROUND : **0.5-3.4** volts with idling, intake air temp. **20°C (68°F)**  
 THW-GROUND : **0.2-1.0** volts with idling, coolant temp. **80°C (176°F)**  
 STA-GROUND : **6.0** volts or more with cranking  
 TC-GROUND : **9.0-14.0** volts with ignition SW on  
 W-GROUND : **9.0-14.0** volts with idling  
                   **0-3.0** volts with ignition SW on  
 ACMG-GROUND : **0-1.5** volts with A/C SW on (at idling)  
                   **7.5-14.0** volts with A/C SW off and throttle valve fully open  
 #10, #20, #30, #40, #50, #60-GROUND : **9.0-14.0** volts with ignition SW on pulse generation with idling

### I5, I6, I7, I8, I9, I10 INJECTOR NO.1, NO.2, NO.3, NO.4, NO.5, NO.6

1-2 : **13.4-14.2 Ω**

## ○ : PARTS LOCATION

| Code | See Page   | Code | See Page   | Code | See Page |
|------|------------|------|------------|------|----------|
| A10  | 82 (RHD)   | H14  | 82 (RHD)   | J37  | 88 (RHD) |
| A11  | 82 (RHD)   | H15  | 82 (RHD)   | J38  | 88 (RHD) |
| A16  | 86 (RHD)   | H16  | 82 (RHD)   | J39  | 88 (RHD) |
| A23  | 86 (RHD)   | H23  | 86 (RHD)   | J42  | 88 (RHD) |
| B5   | 86 (RHD)   | I1   | 84 (RHD)   | J44  | 90 (RHD) |
| C1   | 82 (RHD)   | I5   | 84 (RHD)   | K1   | 84 (RHD) |
| C2   | 82 (RHD)   | I6   | 84 (RHD)   | K2   | 84 (RHD) |
| C3   | 82 (RHD)   | I7   | 84 (RHD)   | M2   | 88 (RHD) |
| C4   | 82 (RHD)   | I8   | 84 (RHD)   | N1   | 84 (RHD) |
| C11  | A 86 (RHD) | I9   | 84 (RHD)   | P1   | 84 (RHD) |
| C12  | B 86 (RHD) | I10  | 84 (RHD)   | S1   | 84 (RHD) |
| D2   | 86 (RHD)   | I12  | 86 (RHD)   | S12  | 88 (RHD) |
| E2   | A 82 (RHD) | J26  | 84 (RHD)   | T2   | 84 (RHD) |
| E3   | B 82 (RHD) | J27  | A 84 (RHD) | T3   | 84 (RHD) |
| E4   | C 82 (RHD) | J28  | B 84 (RHD) | T5   | 88 (RHD) |
| E5   | D 82 (RHD) | J29  | 84 (RHD)   | T6   | 88 (RHD) |
| E6   | E 82 (RHD) | J31  | 88 (RHD)   | V2   | 84 (RHD) |
| E7   | F 82 (RHD) | J32  | 88 (RHD)   | V3   | 84 (RHD) |
| F15  | 90 (RHD)   | J34  | 88 (RHD)   | W3   | 84 (RHD) |
| F16  | 90 (RHD)   | J36  | 88 (RHD)   |      |          |

## ENGINE CONTROL (RHD)

### : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)            |
|------|----------|------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left) |

### : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)         |
|------|----------|--------------------------------------------------------------|
| 1A   | 58 (RHD) | Engine Room Main Wire and Driver Side J/B (Right Kick Panel) |
| 1D   | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel) |
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1G   | 59 (RHD) |                                                              |
| 1H   |          |                                                              |
| 1J   |          |                                                              |

### : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

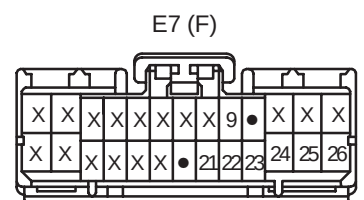
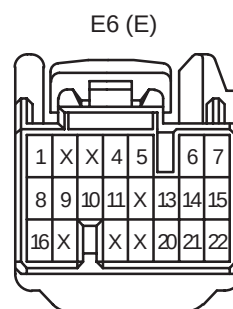
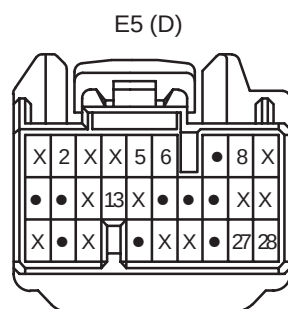
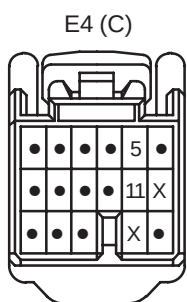
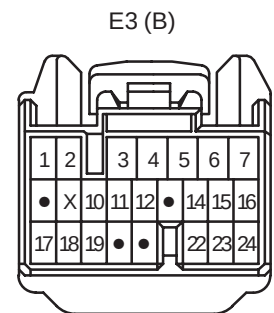
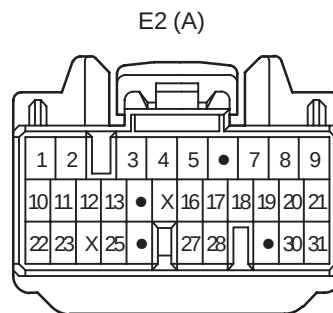
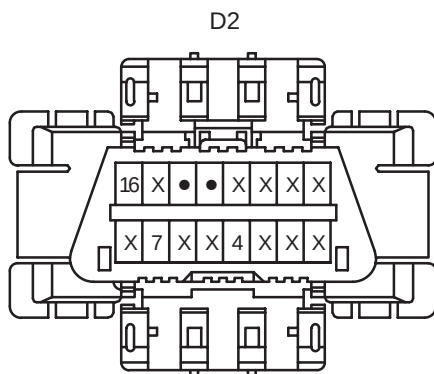
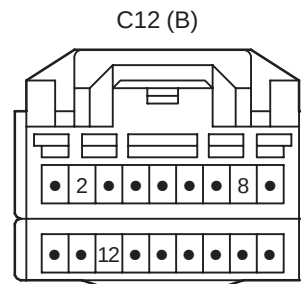
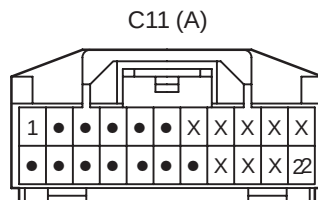
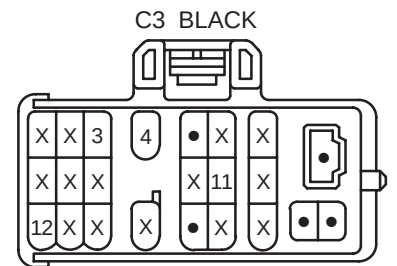
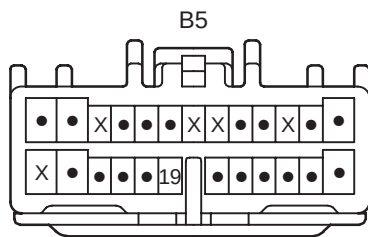
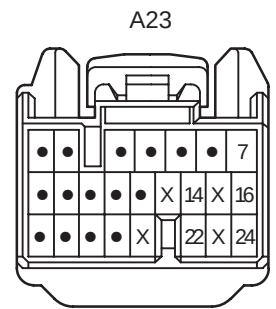
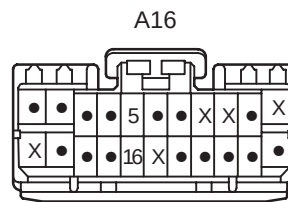
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)              |
|------|-----------|-------------------------------------------------------------------------|
| EA1  | 106 (RHD) | Engine Wire and Cowl Wire (Inside of the ECU Box)                       |
| EA2  |           |                                                                         |
| EA3  |           |                                                                         |
| EA4  |           |                                                                         |
| EB1  | 106 (RHD) | Cowl Wire and Relay Block Wire (Inside of the ECU Box)                  |
| IA1  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
| IA2  |           |                                                                         |
| IA3  |           |                                                                         |
| IC2  | 108 (RHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                         |
| IC3  |           |                                                                         |
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)     |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |
| IK1  | 110 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)          |

### : GROUND POINTS

| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EB   | 106 (RHD) | Left Fender                        |
| EC   | 106 (RHD) | Front Side of the Intake Manifold  |
| ED   | 106 (RHD) | Rear Side of the Intake Manifold   |
| EE   | 106 (RHD) | Under the ABS & TRC & VSC Actuator |
| IF   | 108 (RHD) | Left Kick Panel                    |
| IG   | 108 (RHD) | Behind the Combination Meter       |
| II   | 108 (RHD) | Cowl Side Panel RH                 |
| BJ   | 112 (RHD) | Rear Floor Partition Panel LH      |
| BK   | 112 (RHD) | Quarter Panel LH                   |

### : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| E1   | 106 (RHD) | Engine Wire                     | E3   | 106 (RHD) | Engine Wire                     |
| E2   |           |                                 | E4   | 106 (RHD) | Cowl Wire                       |

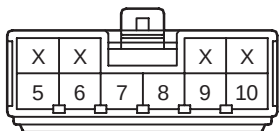


# ENGINE CONTROL (RHD)

F15



F16 BLACK



H14 DARK GRAY



H15 DARK GRAY



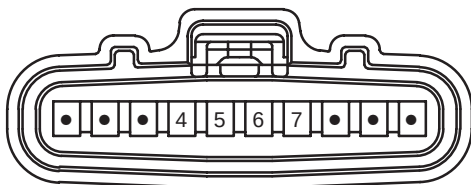
H16 DARK GRAY



H23 DARK GRAY



I1 BLACK



I5 DARK GRAY



I6 BROWN



I7 DARK GRAY



I8 BROWN



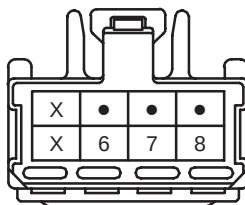
I9 DARK GRAY



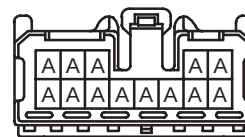
I10 BROWN



I12

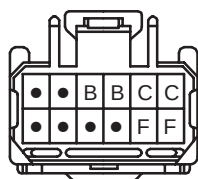


J26 ORANGE



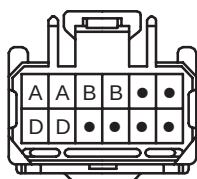
(Hint : See Page 7, 23, 39)

J27 (A)



(Hint : See Page 7, 23, 39)

J28 (B)



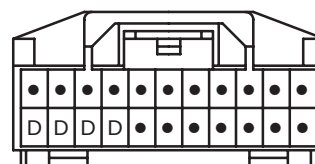
(Hint : See Page 7, 23, 39)

J29 BLUE



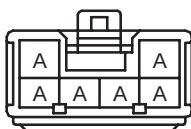
(Hint : See Page 7, 23, 39)

J31



(Hint : See Page 7, 23, 39)

J32



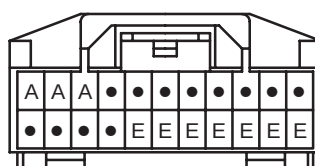
(Hint : See Page 7, 23, 39)

J34



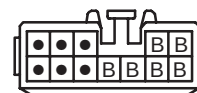
(Hint : See Page 7, 23, 39)

J36



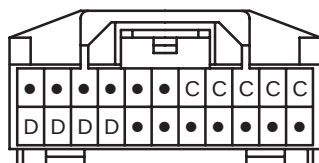
(Hint : See Page 7, 23, 39)

J37



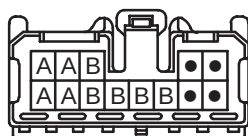
(Hint : See Page 7, 23, 39)

J38



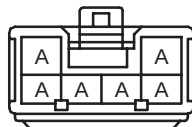
(Hint : See Page 7, 23, 39)

J39



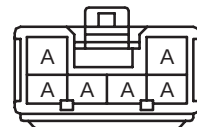
(Hint : See Page 7, 23, 39)

J42



(Hint : See Page 7, 23, 39)

J44



(Hint : See Page 7, 23, 39)



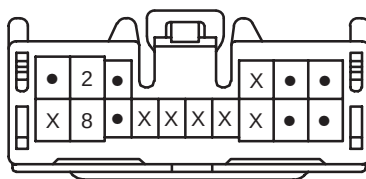
K1 DARK GRAY



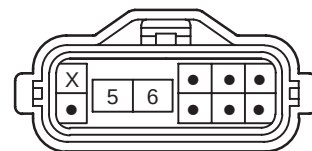
K2 DARK GRAY



M2 BLUE



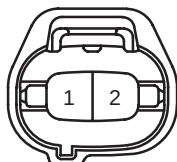
N1 GRAY



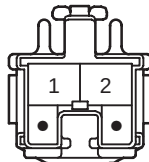
P1 DARK GRAY



S1 BLACK



S12 BLUE



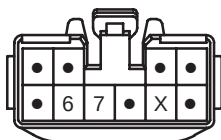
T2 GRAY



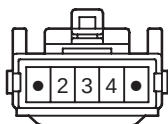
T3 BLACK



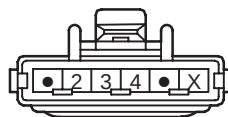
T5 GRAY



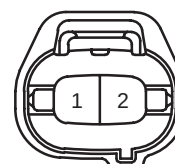
(Europe) T6



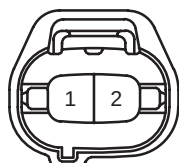
(Australia) T6 BLACK



V2 BROWN



V3 BLUE



W3 BLACK



## SERVICE HINTS

### EFI RELAY

5-3 : Closed with the ignition SW at **ON** position

### U1 UNLOCK WARNING SW

1-2 : Closed with ignition key in cylinder

## : PARTS LOCATION

| Code |   | See Page | Code |   | See Page | Code |  | See Page |
|------|---|----------|------|---|----------|------|--|----------|
| E6   | E | 68 (LHD) | J10  |   | 74 (LHD) | J42  |  | 88 (RHD) |
|      |   | 82 (RHD) | J14  |   | 74 (LHD) | R8   |  | 74 (LHD) |
| E7   | F | 68 (LHD) | J15  |   | 74 (LHD) |      |  | 88 (RHD) |
|      |   | 82 (RHD) | J29  |   | 84 (RHD) | T6   |  | 74 (LHD) |
| J5   |   | 70 (LHD) | J34  |   | 88 (RHD) |      |  | 88 (RHD) |
| J8   |   | 74 (LHD) | J37  |   | 88 (RHD) | U1   |  | 74 (LHD) |
| J9   | A | 74 (LHD) | J40  | B | 88 (RHD) |      |  | 88 (RHD) |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|------------------------------------------------------|
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)  |
| 2G   | 61 (LHD) |                                                      |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)              |
|------|-----------|-------------------------------------------------------------------------|
| IA1  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
| IA2  | 98 (LHD)  | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)          |
|      | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
| IA3  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
| IE2  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column)  |
| II1  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
| II4  |           |                                                                         |
| IJ2  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |

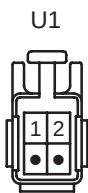
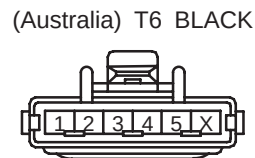
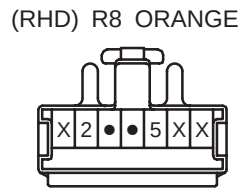
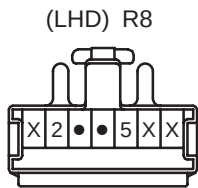
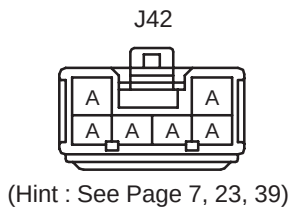
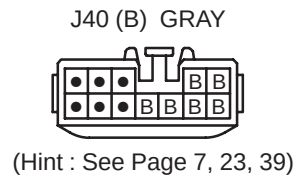
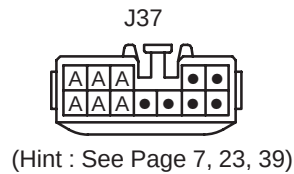
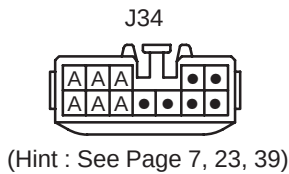
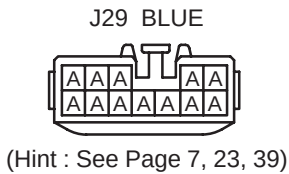
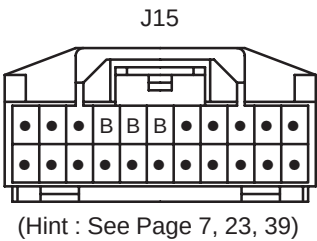
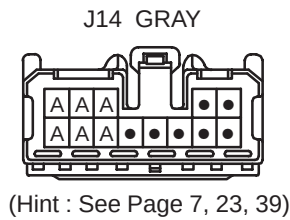
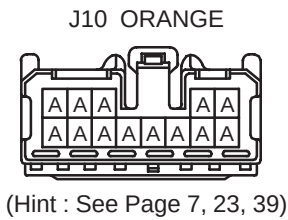
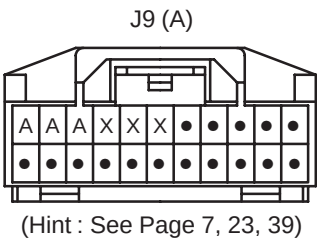
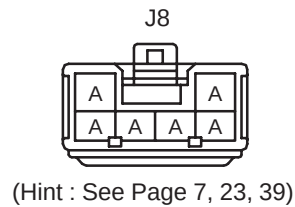
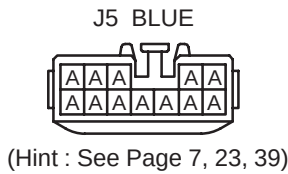
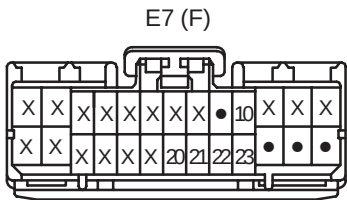
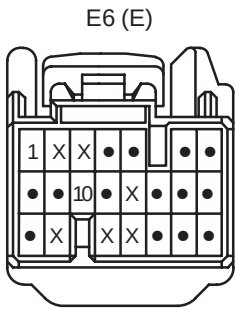
## : GROUND POINTS

| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EE   | 96 (LHD)  | Under the ABS & TRC & VSC Actuator |
|      | 106 (RHD) |                                    |
| IF   | 98 (LHD)  | Left Kick Panel                    |
| IG   | 108 (RHD) | Behind the Combination Meter       |
| II   | 98 (LHD)  | Right Side of the Cowl Panel       |
|      | 108 (RHD) | Cowl Side Panel RH                 |

## : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|----------|---------------------------------|
| I1   | 100 (LHD) | Cowl Wire                       |      |          |                                 |

ENGINE IMMOBILISER SYSTEM



## SERVICE HINTS

### FOG RELAY

3-5 : Closed with light control SW at **TAIL** or **HEAD** position and front fog light SW at **ON** position



### : PARTS LOCATION

| Code | See Page | Code     | See Page | Code     | See Page |
|------|----------|----------|----------|----------|----------|
| B6   | A        | 72 (LHD) | F1       | 82 (RHD) | J18      |
|      |          | 86 (RHD) | F2       | 68 (LHD) | J29      |
| C13  | A        | 72 (LHD) |          | 82 (RHD) | J32      |
|      |          | 86 (RHD) | J8       | 74 (LHD) | J37      |
|      | B        | 86 (RHD) | J10      | 74 (LHD) | J41      |
| F1   |          | 68 (LHD) | J15      | A        | 74 (LHD) |
|      |          |          |          | J42      | 88 (RHD) |



### : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)         |
|------|----------|--------------------------------------------------------------|
| 1B   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 58 (RHD) | Engine Room Main Wire and Driver Side J/B (Right Kick Panel) |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1G   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |



### : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)        |
|------|-----------|-------------------------------------------------------------------|
| II4  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B) |

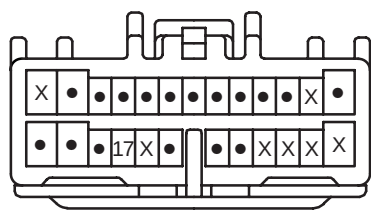


### : GROUND POINTS

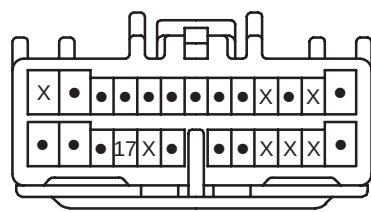
| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EA   | 96 (LHD)  | Right Fender                       |
| EB   | 96 (LHD)  | Left Fender                        |
|      | 106 (RHD) |                                    |
| EE   | 106 (RHD) | Under the ABS & TRC & VSC Actuator |
| IF   | 98 (LHD)  | Left Kick Panel                    |
|      | 108 (RHD) |                                    |
| II   | 98 (LHD)  | Right Side of the Cowl Panel       |
|      | 108 (RHD) | Cowl Side Panel RH                 |

FRONT FOG LIGHT

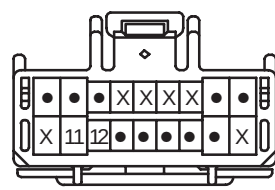
(LHD) B6 (A)



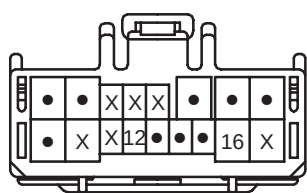
(RHD) B6 (A)



(Except Australia) C13 (A)



(Australia) C13 (B)



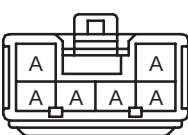
F1 BROWN



F2 BROWN

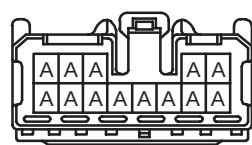


J8



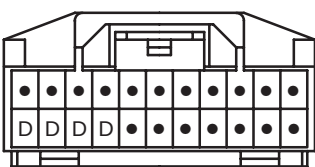
(Hint : See Page 7, 23, 39)

J10 ORANGE



(Hint : See Page 7, 23, 39)

J15 (A)



(Hint : See Page 7, 23, 39)

J18



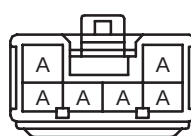
(Hint : See Page 7, 23, 39)

J29 BLUE



(Hint : See Page 7, 23, 39)

J32



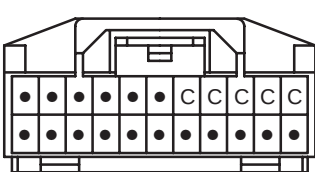
(Hint : See Page 7, 23, 39)

J37



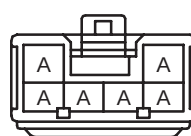
(Hint : See Page 7, 23, 39)

J41 (B)



(Hint : See Page 7, 23, 39)

J42



(Hint : See Page 7, 23, 39)

## SERVICE HINTS

### F8 FUEL LID OPENER SW

2-1 : Closed with fuel lid opener SW on

## ○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| F8   | 72 (LHD) | F14  | 76 (LHD) | J21  | 78 (LHD) |
|      | 86 (RHD) |      | 90 (RHD) | J44  | 90 (RHD) |

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|------------------------------------------------------|
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)      |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)     |

## □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location) |
|------|-----------|------------------------------------------------------------|
| IC3  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)            |
|      | 108 (RHD) |                                                            |

## ▽ : GROUND POINTS

| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| BJ   | 102 (LHD) | Rear Floor Partition Panel LH |
|      | 112 (RHD) |                               |
| BK   | 102 (LHD) | Quarter Panel LH              |
|      | 112 (RHD) |                               |

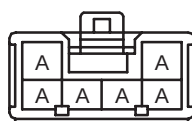
F8 GREEN



F14 BLACK



J21



(Hint : See Page 7, 23, 39)

J44



(Hint : See Page 7, 23, 39)

 : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| J2   | 70 (LHD) | J10  | 74 (LHD) | J22  | 78 (LHD) |
| J4   | 70 (LHD) | J14  | 74 (LHD) | J23  | 80 (LHD) |
| J5   | 70 (LHD) | J17  | 74 (LHD) | J24  | 80 (LHD) |
| J8   | 74 (LHD) | J18  | 74 (LHD) |      |          |
| J9   | 74 (LHD) | J21  | 78 (LHD) |      |          |

 : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
| 2    | 55 (LHD) | Engine Room No.2 R/B (Engine Compartment Left)  |
| 3    | 56       | Engine Room No.3 R/B (Engine Compartment Left)  |
| 4    | 57 (LHD) | Passenger Side R/B (Right Kick Panel)           |

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)                                   |
|------|----------|----------------------------------------------------------------------------------------|
| 1C   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)                            |
| 1D   |          |                                                                                        |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                                        |
| 1G   | 59 (LHD) |                                                                                        |
| 2D   | 60 (LHD) | Roof Wire and Passenger Side J/B (Right Kick Panel)                                    |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)                                    |
| 2G   | 61 (LHD) |                                                                                        |
| 3B   | 62       | Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Reinforcement Center) |
| 3C   |          |                                                                                        |
| 3E   | 63       |                                                                                        |
| 3F   |          |                                                                                        |
| 3G   |          |                                                                                        |
| 3H   |          |                                                                                        |

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|-----------|---------------------------------------------------------------------------|
| EA1  | 96 (LHD)  | Engine Wire and Cowl Wire (Inside of the ECU Box)                         |
| EA3  |           |                                                                           |
| EB1  | 96 (LHD)  | Cowl Wire and Relay Block Wire (Inside of the Engine Room No.3 R/B)       |
| EB2  |           |                                                                           |
| IB1  | 98 (LHD)  | Front Door LH Wire and Cowl Wire (Left Kick Panel)                        |
| ID1  | 98 (LHD)  | Cowl Wire and Cowl Wire (Left Side of the Instrument Panel Reinforcement) |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column)    |
| IG1  | 98 (LHD)  | Cowl Wire and A/C Sub Wire (Left Side of the Blower Unit)                 |
| IK1  | 100 (LHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                       |
| BA1  | 102 (LHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)        |
| BB1  | 102 (LHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)        |
| BC1  | 104 (LHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)          |
| BD1  | 104 (LHD) | Floor No.1 Wire and Front Seat RH Wire (Under the Front Passenger's Seat) |

## J GROUND POINT (LHD)

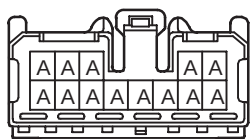
### ▽ : GROUND POINTS

| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EA   | 96 (LHD)  | Right Fender                       |
| EB   | 96 (LHD)  | Left Fender                        |
| EC   | 96 (LHD)  | Front Side of the Intake Manifold  |
| ED   | 96 (LHD)  | Rear Side of the Intake Manifold   |
| EE   | 96 (LHD)  | Under the ABS & TRC & VSC Actuator |
| IF   | 98 (LHD)  | Left Kick Panel                    |
| IG   | 98 (LHD)  | Behind the Combination Meter       |
| IH   | 98 (LHD)  | Instrument Panel Brace RH          |
| II   | 98 (LHD)  | Right Side of the Cowl Panel       |
| BJ   | 102 (LHD) | Rear Floor Partition Panel LH      |
| BK   | 102 (LHD) | Quarter Panel LH                   |
| BL   | 102 (LHD) | Rear Floor Partition Panel RH      |
| BM   | 102 (LHD) | Quarter Panel RH                   |

### ○ : SPLICE POINTS

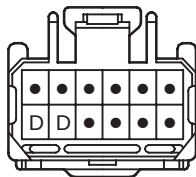
| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| E1   | 96 (LHD)  | Engine Wire                     | I6   | 100 (LHD) | Cowl Wire                       |
| E4   | 96 (LHD)  | Cowl Wire                       | B2   | 102 (LHD) | Roof Wire                       |
| I1   | 100 (LHD) |                                 | B4   | 102 (LHD) | Floor No.2 Wire                 |
| I5   | 100 (LHD) | Engine Room Main Wire           | B7   | 104 (LHD) | Front Seat LH Wire              |

J2 ORANGE



(Hint : See Page 7, 23, 39)

J4



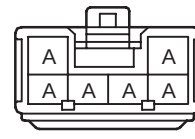
(Hint : See Page 7, 23, 39)

J5 BLUE



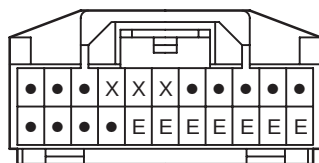
(Hint : See Page 7, 23, 39)

J8



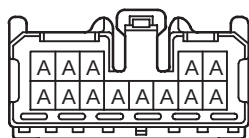
(Hint : See Page 7, 23, 39)

J9



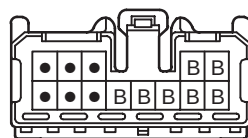
(Hint : See Page 7, 23, 39)

J10 ORANGE



(Hint : See Page 7, 23, 39)

J14 GRAY



(Hint : See Page 7, 23, 39)

J17



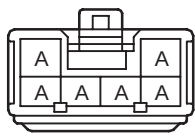
(Hint : See Page 7, 23, 39)

J18



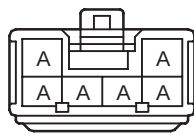
(Hint : See Page 7, 23, 39)

J21



(Hint : See Page 7, 23, 39)

J22



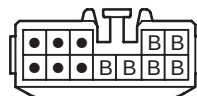
(Hint : See Page 7, 23, 39)

J23



(Hint : See Page 7, 23, 39)

J24



(Hint : See Page 7, 23, 39)



 : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| J26  | 84 (RHD) | J36  | 88 (RHD) | J45  | 90 (RHD) |
| J28  | 84 (RHD) | J37  | 88 (RHD) | J46  | 94 (RHD) |
| J29  | 84 (RHD) | J42  | 88 (RHD) | J47  | 94 (RHD) |
| J32  | 88 (RHD) | J44  | 90 (RHD) |      |          |

 : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |
| 2    | 55 (RHD) | Engine Room No.2 R/B (Engine Compartment Right) |
| 3    | 56       | Engine Room No.3 R/B (Engine Compartment Left)  |
| 4    | 57 (RHD) | Passenger Side R/B (Left Kick Panel)            |
| 5    | 57 (RHD) | Driver Side R/B (Right Kick Panel)              |

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)                                   |
|------|----------|----------------------------------------------------------------------------------------|
| 1C   | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel)                           |
| 1D   |          |                                                                                        |
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                                       |
| 1G   | 59 (RHD) |                                                                                        |
| 2D   | 60 (RHD) | Roof Wire and Passenger Side J/B (Left Kick Panel)                                     |
| 2F   | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)                                     |
| 2G   | 61 (RHD) |                                                                                        |
| 3A   | 62       | Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Reinforcement Center) |
| 3B   |          |                                                                                        |
| 3C   |          |                                                                                        |
| 3E   | 63       |                                                                                        |
| 3F   |          |                                                                                        |
| 3H   |          |                                                                                        |

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|-----------|---------------------------------------------------------------------------|
| EA1  | 106 (RHD) | Engine Wire and Cowl Wire (Inside of the ECU Box)                         |
| EA3  |           |                                                                           |
| EB1  | 106 (RHD) | Cowl Wire and Relay Block Wire (Inside of the Engine Room No.3 R/B)       |
| EB2  |           |                                                                           |
| IB1  | 108 (RHD) | Front Door LH Wire and Cowl Wire (Left Kick Panel)                        |
| IE1  | 108 (RHD) | Cowl Wire and A/C Sub Wire (Right Side of the Blower Unit)                |
| II1  | 110 (RHD) | Cowl Wire and Cowl Wire (Left Side of the Steering Column)                |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column)   |
| IL1  | 110 (RHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                       |
| BA1  | 112 (RHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)        |
| BB1  | 112 (RHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)        |
| BC1  | 114 (RHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Front Passenger's Seat) |
| BD1  | 114 (RHD) | Floor No.1 Wire and Front Seat RH Wire (Under the Driver's Seat)          |

## J GROUND POINT (RHD)

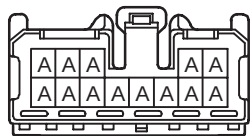
### ▽ : GROUND POINTS

| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EA   | 106 (RHD) | Right Fender                       |
| EB   | 106 (RHD) | Left Fender                        |
| EC   | 106 (RHD) | Front Side of the Intake Manifold  |
| ED   | 106 (RHD) | Rear Side of the Intake Manifold   |
| EE   | 106 (RHD) | Under the ABS & TRC & VSC Actuator |
| IF   | 108 (RHD) | Left Kick Panel                    |
| IG   | 108 (RHD) | Behind the Combination Meter       |
| IH   | 108 (RHD) | Instrument Panel Brace LH          |
| II   | 108 (RHD) | Cowl Side Panel RH                 |
| BJ   | 112 (RHD) | Rear Floor Partition Panel LH      |
| BK   | 112 (RHD) | Quarter Panel LH                   |
| BL   | 112 (RHD) | Rear Floor Partition Panel RH      |
| BM   | 112 (RHD) | Quarter Panel RH                   |

### ○ : SPLICE POINTS

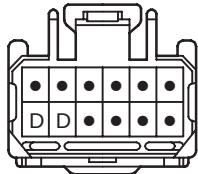
| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| E1   | 106 (RHD) | Engine Wire                     | I10  | 110 (RHD) | Cowl Wire                       |
| E4   | 106 (RHD) | Cowl Wire                       | B1   | 112 (RHD) | Roof Wire                       |
| I2   | 110 (RHD) | Cowl Wire                       | B4   | 112 (RHD) | Floor No.2 Wire                 |
| I8   |           |                                 | B7   | 114 (RHD) | Front Seat RH Wire              |
| I9   |           |                                 |      |           |                                 |

J26 ORANGE



(Hint : See Page 7, 23, 39)

J28



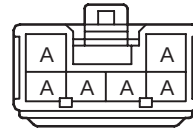
(Hint : See Page 7, 23, 39)

J29 BLUE



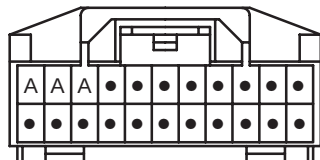
(Hint : See Page 7, 23, 39)

J32



(Hint : See Page 7, 23, 39)

J36



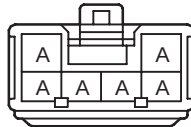
(Hint : See Page 7, 23, 39)

J37



(Hint : See Page 7, 23, 39)

J42



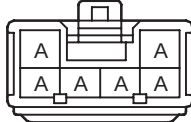
(Hint : See Page 7, 23, 39)

J44



(Hint : See Page 7, 23, 39)

J45



(Hint : See Page 7, 23, 39)

J46



(Hint : See Page 7, 23, 39)

J47



(Hint : See Page 7, 23, 39)

# HEADLIGHT BEAM LEVEL CONTROL (AUTOMATIC)

## SYSTEM OUTLINE

This system calculates changes in the illuminating angle from changes in the vehicle height and axle distance based on the information on the vehicle height detected by the height sensors installed at the front and rear of the vehicle and information on the vehicle speed and acceleration output from the VSC system to reversely operate the reflector by the obtained illuminating angle through motor in order to always keep the beam axis constant.  
If an error occurs in this system, the headlight beam level control warning light in the combination meter lights up to warn the driver.

## SERVICE HINTS

### H3 (A), H4 (B) HEADLIGHT BEAM LEVEL CONTROL ECU

- (A) 1, (B) 8-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position  
(A) 4-GROUND : Always continuity  
(B) 4-GROUND : Approx. **12** volts with light control SW at **HEAD** position

### C13 (A), (B) LIGHT CONTROL SW [COMB. SW]

- (A) 14-(A) 16 : Closed with light control SW at **HEAD** position (Except Australia)  
(B) 14-(B) 9 : Closed with light control SW at **HEAD** position (Australia)

## : PARTS LOCATION

| Code | See Page | Code | See Page | Code     | See Page |
|------|----------|------|----------|----------|----------|
| A24  | 72 (LHD) | H3   | A        | 82 (RHD) | J8       |
|      | 86 (RHD) | H4   | B        | 68 (LHD) | J10      |
| B6   | 72 (LHD) |      |          | 82 (RHD) | J15      |
|      | 86 (RHD) | H5   |          | 68 (LHD) | J18      |
| C11  | 72 (LHD) |      |          | 82 (RHD) | J31      |
|      | 86 (RHD) | H17  |          | 68 (LHD) | J32      |
| C13  | 72 (LHD) |      |          | 82 (RHD) | J37      |
|      | 86 (RHD) | H24  |          | 76 (LHD) | J40      |
|      | 86 (RHD) |      |          | 90 (RHD) | J41      |
| H3   | 68 (LHD) | J7   |          | 74 (LHD) | J42      |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)         |
|------|----------|--------------------------------------------------------------|
| 1D   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)  |
|      | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel) |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1G   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)              |
|------|-----------|-------------------------------------------------------------------------|
| IA2  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
| IC3  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                         |
|      | 108 (RHD) |                                                                         |
| IE2  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column)  |
| II2  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
| IJ2  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |
| IK3  | 110 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)          |

 : GROUND POINTS

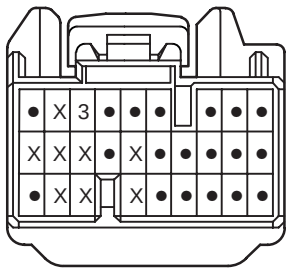
| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| EB   | 96 (LHD)  | Left Fender                  |
|      | 106 (RHD) |                              |
| IF   | 98 (LHD)  | Left Kick Panel              |
|      | 108 (RHD) |                              |
| II   | 98 (LHD)  | Right Side of the Cowl Panel |
|      | 108 (RHD) | Cowl Side Panel RH           |

 : SPLICE POINTS

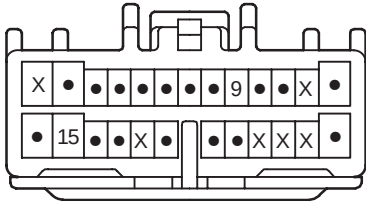
| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| I1   | 100 (LHD) | Cowl Wire                       | I8   | 110 (RHD) | Cowl Wire                       |

HEADLIGHT BEAM LEVEL CONTROL (AUTOMATIC)

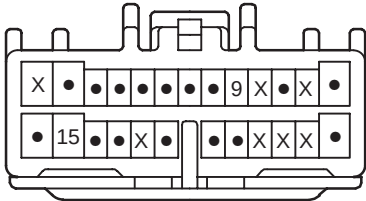
A24



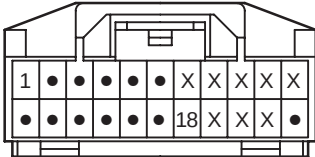
(LHD) B6 (A)



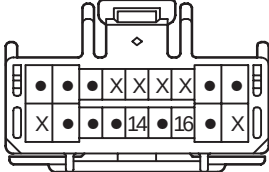
(RHD) B6 (A)



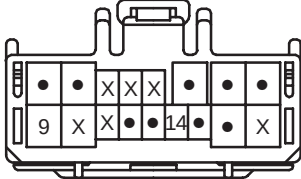
C11



(Except Australia) C13 (A)



(Australia) C13 (B)



H3 (A) GRAY



H4 (B) BLACK



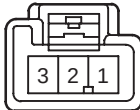
H5 BLACK



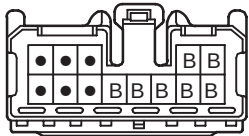
H17 DARK GRAY



H24

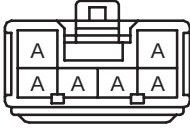


J7 GRAY



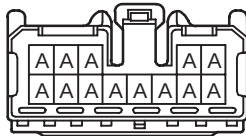
(Hint : See Page 7, 23, 39)

J8



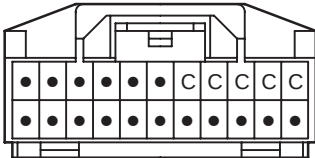
(Hint : See Page 7, 23, 39)

J10 ORANGE



(Hint : See Page 7, 23, 39)

J15



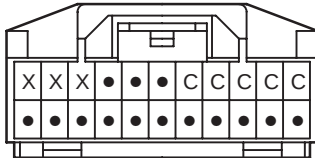
(Hint : See Page 7, 23, 39)

J18



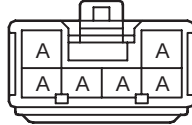
(Hint : See Page 7, 23, 39)

J31



(Hint : See Page 7, 23, 39)

J32



(Hint : See Page 7, 23, 39)

J37



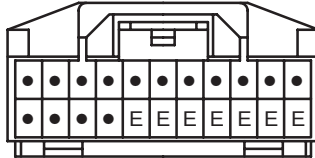
(Hint : See Page 7, 23, 39)

J40 GRAY



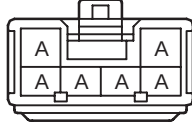
(Hint : See Page 7, 23, 39)

J41



(Hint : See Page 7, 23, 39)

J42



(Hint : See Page 7, 23, 39)

## SERVICE HINTS

### H1, H2 HEADLIGHT BEAM LEVEL CONTROL ACTUATOR

6-GROUND : Approx. 12 volts with dimmer SW at **FLASH** position

5-GROUND : Always continuity

## ○ : PARTS LOCATION

| Code | See Page | Code | See Page   | Code | See Page   |
|------|----------|------|------------|------|------------|
| H1   | 68 (LHD) | H21  | 86 (RHD)   | J29  | 84 (RHD)   |
|      | 82 (RHD) | J8   | 74 (LHD)   | J32  | 88 (RHD)   |
| H2   | 68 (LHD) | J10  | 74 (LHD)   | J33  | B 88 (RHD) |
|      | 82 (RHD) | J11  | A 74 (LHD) | J37  | 88 (RHD)   |
| H21  | 72 (LHD) | J14  | 74 (LHD)   |      |            |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |

## □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)        |
|------|-----------|-------------------------------------------------------------------|
| IA1  | 98 (LHD)  | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)    |
|      | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B) |
| II2  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B) |
| IK3  | 110 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)    |

## ▽ : GROUND POINTS

| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EA   | 96 (LHD)  | Right Fender                       |
| EB   | 96 (LHD)  | Left Fender                        |
|      | 106 (RHD) |                                    |
| EE   | 106 (RHD) | Under the ABS & TRC & VSC Actuator |
| IF   | 98 (LHD)  | Left Kick Panel                    |
|      | 108 (RHD) |                                    |

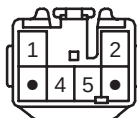
H1 GRAY



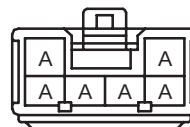
H2 GRAY



H21 GRAY

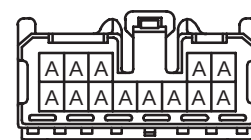


J8



(Hint : See Page 7, 23, 39)

J10 GRANGE



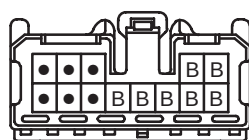
(Hint : See Page 7, 23, 39)

J11 (A) BLACK



(Hint : See Page 7, 23, 39)

J14 GRAY



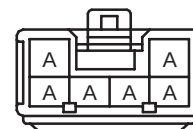
(Hint : See Page 7, 23, 39)

J29 BLUE



(Hint : See Page 7, 23, 39)

J32



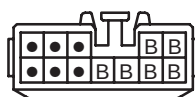
(Hint : See Page 7, 23, 39)

J33 (B) BLACK



(Hint : See Page 7, 23, 39)

J37



(Hint : See Page 7, 23, 39)

# HEADLIGHT CLEANER

## SERVICE HINTS

### H6 HEADLIGHT CLEANER CONTROL RELAY

5-2 : Closed with ignition SW at **ON** position, light control SW at **HEAD** position and headlight cleaner SW on

## : PARTS LOCATION

| Code | See Page | Code     | See Page | Code     | See Page |
|------|----------|----------|----------|----------|----------|
| B6   | A        | 72 (LHD) | H7       | 68 (LHD) | J18      |
|      |          | 86 (RHD) |          | 82 (RHD) | J32      |
| C13  | A        | 72 (LHD) | H22      | A        | 72 (LHD) |
|      |          | 86 (RHD) |          |          | J35      |
|      | B        | 86 (RHD) | J8       | B        | 86 (RHD) |
| D1   |          | 72 (LHD) |          |          | J37      |
|      |          | 86 (RHD) | J10      |          | J40      |
| H6   |          | 68 (LHD) |          |          | J42      |
|      |          | 82 (RHD) | J12      |          | 88 (RHD) |
|      |          |          | J15      |          |          |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|------------------------------------------------------|
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)      |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)     |
| 1G   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)      |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)     |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

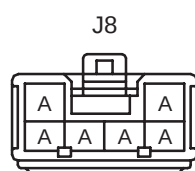
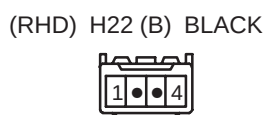
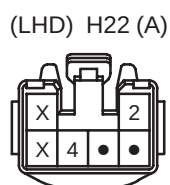
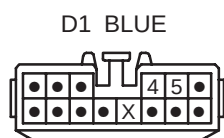
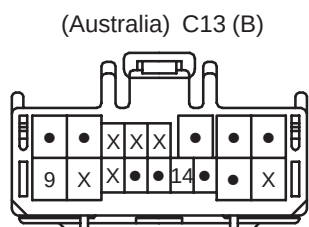
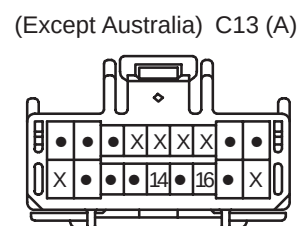
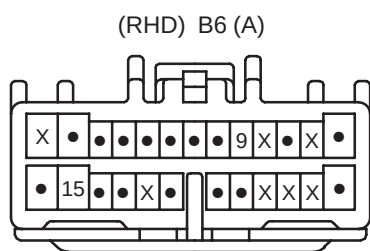
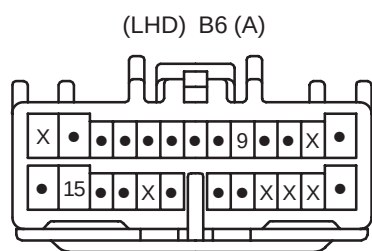
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)        |
|------|-----------|-------------------------------------------------------------------|
| IA1  | 98 (LHD)  | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)    |
|      | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B) |
| IA2  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B) |
| II2  | 100 (LHD) |                                                                   |

## : GROUND POINTS

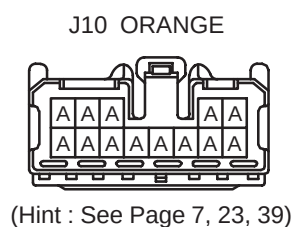
| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| EB   | 96 (LHD)  | Left Fender                  |
|      | 106 (RHD) |                              |
| IF   | 98 (LHD)  | Left Kick Panel              |
|      | 108 (RHD) |                              |
| II   | 98 (LHD)  | Right Side of the Cowl Panel |
|      | 108 (RHD) | Cowl Side Panel RH           |

## : SPLICE POINTS

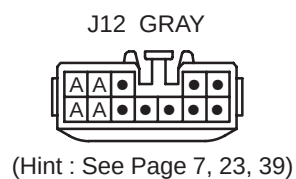
| Code | See Page | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|----------|---------------------------------|------|-----------|---------------------------------|
| E4   | 96 (LHD) | Cowl Wire                       | E4   | 106 (RHD) | Cowl Wire                       |



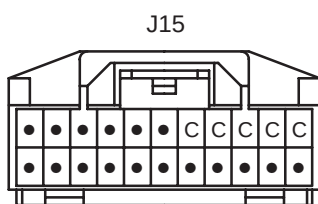
(Hint : See Page 7, 23, 39)



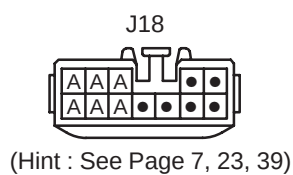
(Hint : See Page 7, 23, 39)



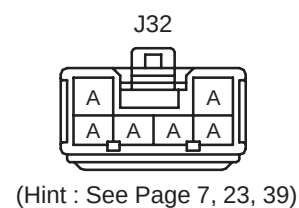
(Hint : See Page 7, 23, 39)



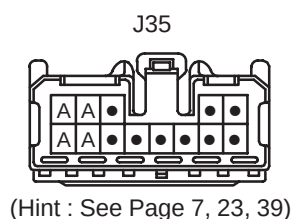
(Hint : See Page 7, 23, 39)



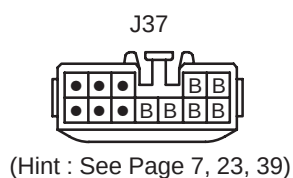
(Hint : See Page 7, 23, 39)



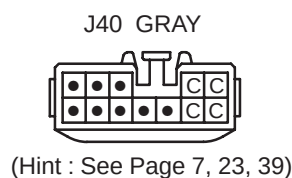
(Hint : See Page 7, 23, 39)



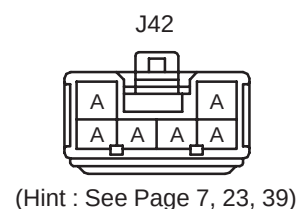
(Hint : See Page 7, 23, 39)



(Hint : See Page 7, 23, 39)



(Hint : See Page 7, 23, 39)



(Hint : See Page 7, 23, 39)



# HEADLIGHT (w/ DAYTIME RUNNING LIGHT)

## SYSTEM OUTLINE

Current is constantly applied from the battery as follows :

**ALT** fuse to tail relay (Coil side) to **TERMINAL 3** of the daytime running light relay. **MAIN** fuse to HEAD LP relay (Coil side) to **TERMINAL 5** of the daytime running light relay. **ECU-B2** fuse to **TERMINAL 12** of the daytime running light relay. When the ignition SW is turned to ON, the current flows from **GAUGE** fuse to **TERMINAL 1** of the daytime running light relay.

### 1. DAYTIME RUNNING LIGHT OPERATION

When the engine is started, a signal from the alternator is input to **TERMINAL 5** of the daytime running light relay, from the body ECU No.2. This activates the daytime running light relay, allowing the current to flow as follows, and light up the related lights :

Tail relay (Point side) to **TAIL** fuse, **PANEL** fuse to taillight, front clearance light, license plate light, illumination. As the same time, the current also flows from HEAD LP relay (Point side) to **H-LP L LWR** fuse, **H-LP R LWR** fuse to headlight control ECU LH,RH, or headlight LH, RH (Low), and light up the headlights.

### 2. TAILLIGHT OPERATION

When the light control SW is turned to **TAIL** position, a signal is input to **TERMINAL (A) 2** of the body ECU No.2, and the current flows as follows, and turns the tail relay ON :

**ALT** fuse to tail relay (Coil side) to **TERMINAL 3** of the daytime running light relay to **TERMINAL 2** to **TERMINAL 6** of the body ECU No.2 to **GROUND**. At this time, the current also flows from the tail relay (Point side) to **TAIL** fuse, **PANEL** fuse to taillight, front clearance light, license plate light, illumination, and light up the related lights.

### 3. HEADLIGHT OPERATION

\* When the light control SW is turned to **HEAD** position

The signal input to **TERMINAL (A) 5** of the body ECU No.2 allows the current to flow as follows, and turns the HEAD LP relay ON :

**MAIN** fuse to HEAD LP relay (Coil side) to **TERMINAL 5** of the daytime running light relay to **TERMINAL 4** to **TERMINAL (A) 9** of the body ECU No.2 to **GROUND**. At the same time, the current flows from HEAD LP relay (Point side) to **H-LP L LWR** fuse, **H-LP R LWR** fuse to headlight control ECU LH,RH, or head light LH,RH (Low), and light up the lights.

\* When the Dimmer SW is turned to **HIGH** position

The current flows as follows, and turns the DIMMER DRL NO.2 relay ON :

**DRL NO.1** fuse to DIMMER DRL NO.2 relay (Coil side) to **TERMINAL 14** of the daytime running light relay to **TERMINAL 13** to **TERMINAL 8** of the comb. SW to **TERMINAL 17** to **GROUND**. At the same time, the current flows from DIMMER DRL NO.2 relay (Point side) to **H-LP L UPR** fuse, **H-LP R UPR** fuse to headlight LH,RH (High), and light up the lights.

\* When the Dimmer SW is turned to **FLASH** position

The current flows as follows, and turns the HEAD LP relay ON :

**MAIN** fuse to HEAD LP relay (Coil side) to **TERMINAL 5** of the daytime running light relay to **TERMINAL 6** to **TERMINAL 9** of the comb. SW to **TERMINAL 17** to **GROUND**. At the same time, the current flows as follows, and turns the DIMMER DRL NO.2 relay ON :

**DRL NO.1** fuse to DIMMER DRL NO.2 relay (Coil side) to **TERMINAL 14** of the daytime running light relay to **TERMINAL 6** to **TERMINAL 9** of the comb. SW to **TERMINAL 17** to **GROUND**. This lights up the headlight LH,RH (High) and headlight control ECU LH,RH or headlight LH,RH (Low), as when the dimmer SW is turned to **HIGH** position.

## SERVICE HINTS

### HEAD LP RELAY

1-2 : Closed with light control SW at **HEAD** position or dimmer SW at **FLASH** position

### DIMMER DRL NO.2 RELAY

1-2 : Closed with daytime running light operation

Closed with light control SW at **HEAD** position and dimmer SW at **HIGH** position

Closed with dimmer SW at **FLASH** position

### C13 COMBINATION SW

14-16 : Closed with light control SW at **HEAD** position

9-17 : Closed with dimmer SW at **FLASH** position

8-17 : Closed with dimmer SW at **HIGH** or **FLASH** position

### B6 (A) BODY ECU NO.2

(A)15-GROUND : Continuity with light control SW at **HEAD** position

 : PARTS LOCATION

| Code |   | See Page | Code | See Page | Code | See Page |
|------|---|----------|------|----------|------|----------|
| B6   | A | 72 (LHD) | H9   | 68 (LHD) | J10  | 74 (LHD) |
| C11  | A | 72 (LHD) | H10  | 68 (LHD) | J11  | 74 (LHD) |
| C12  | B | 72 (LHD) | H11  | 68 (LHD) | J14  | 74 (LHD) |
| C13  |   | 72 (LHD) | H12  | 68 (LHD) | J15  | 74 (LHD) |
| D1   |   | 72 (LHD) | H13  | 68 (LHD) | J18  | 74 (LHD) |
| H8   |   | 68 (LHD) | J8   | 74 (LHD) | J19  | 74 (LHD) |

 : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
| 3    | 56       | Engine Room No.3 R/B (Engine Compartment Left)  |

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)        |
|------|----------|-------------------------------------------------------------|
| 1A   | 58 (LHD) | Engine Room Main Wire and Driver Side J/B (Left Kick Panel) |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)             |
| 1G   | 59 (LHD) |                                                             |
| 1H   |          |                                                             |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)         |

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)             |
|------|-----------|------------------------------------------------------------------------|
| EB1  | 96 (LHD)  | Cowl Wire and Relay Block Wire (Inside of the Engine Room No.3 R/B)    |
| IA1  | 98 (LHD)  | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)         |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column) |
| IE2  |           |                                                                        |
| II2  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)      |
| II4  |           |                                                                        |

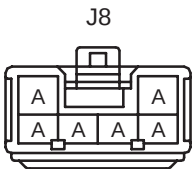
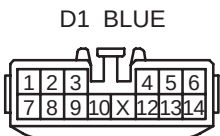
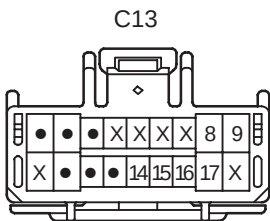
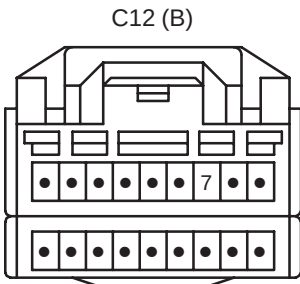
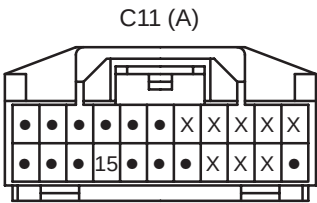
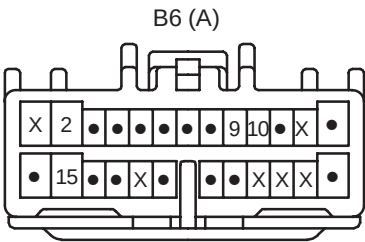
 : GROUND POINTS

| Code | See Page | Ground Points Location             |
|------|----------|------------------------------------|
| EA   | 96 (LHD) | Right Fender                       |
| EB   | 96 (LHD) | Left Fender                        |
| EE   | 96 (LHD) | Under the ABS & TRC & VSC Actuator |
| IF   | 98 (LHD) | Left Kick Panel                    |
| II   | 98 (LHD) | Right Side of the Cowl Panel       |

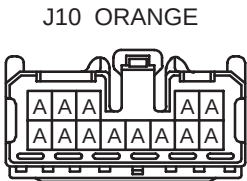
 : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|----------|---------------------------------|
| I1   | 100 (LHD) | Cowl Wire                       |      |          |                                 |

HEADLIGHT (w/ DAYTIME RUNNING LIGHT)



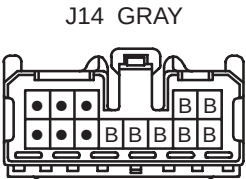
(Hint : See Page 7, 23, 39)



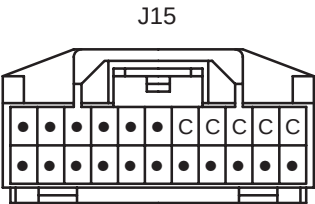
(Hint : See Page 7, 23, 39)



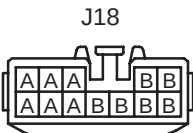
(Hint : See Page 7, 23, 39)



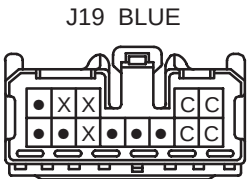
(Hint : See Page 7, 23, 39)



(Hint : See Page 7, 23, 39)



(Hint : See Page 7, 23, 39)



(Hint : See Page 7, 23, 39)

# HEADLIGHT (w/o DAYTIME RUNNING LIGHT)

## SERVICE HINTS

### HEAD LP RELAY

1-2 : Closed with light control SW at **HEAD** position or dimmer SW at **FLASH** position

### C13 (A), (B) COMBINATION SW

(A) 14-(A) 16, (B) 14-(B) 9 : Closed with light control SW at **HEAD** position

(A) 8-(A) 17, (B) 2-(B) 9 : Closed with dimmer SW at **HIGH** or **FLASH** position

(A) 9-(A) 17, (B) 1-(B) 9 : Closed with dimmer SW at **FLASH** position

## ○ : PARTS LOCATION

| Code | See Page | Code     | See Page | Code     | See Page |
|------|----------|----------|----------|----------|----------|
| B6   | A        | 72 (LHD) | H9       | 82 (RHD) | J15      |
|      |          | 86 (RHD) | H10      | 68 (LHD) | J16      |
| C11  | A        | 72 (LHD) |          | 82 (RHD) | J18      |
|      |          | 86 (RHD) | H11      | 68 (LHD) | J29      |
| C12  | B        | 72 (LHD) |          | 82 (RHD) | J32      |
|      |          | 86 (RHD) | H12      | 68 (LHD) | J33   B  |
| C13  | A        | 72 (LHD) |          | 82 (RHD) | J37      |
|      |          | 86 (RHD) | H13      | 68 (LHD) | J39      |
|      | B        | 86 (RHD) |          | 82 (RHD) | J40      |
| H8   |          | 68 (LHD) | J8       | 74 (LHD) | J42      |
|      |          | 82 (RHD) | J10      | 74 (LHD) |          |
| H9   |          | 68 (LHD) | J11   A  | 74 (LHD) |          |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|------------------------------------------------------|
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)      |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)     |
| 1G   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)      |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)     |

## □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)              |
|------|-----------|-------------------------------------------------------------------------|
| IA1  | 98 (LHD)  | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)          |
|      | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
| IA2  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column)  |
| IE2  |           |                                                                         |
| II2  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
| II4  |           |                                                                         |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |
| IJ2  |           |                                                                         |
| IK1  | 110 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)          |

**: GROUND POINTS**

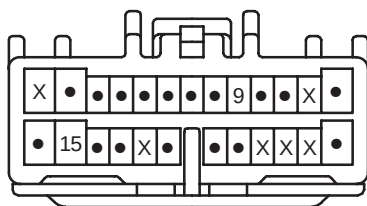
| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EB   | 96 (LHD)  | Left Fender                        |
|      | 106 (RHD) |                                    |
| EE   | 96 (LHD)  | Under the ABS & TRC & VSC Actuator |
|      | 106 (RHD) |                                    |
| IF   | 98 (LHD)  | Left Kick Panel                    |
|      | 108 (RHD) |                                    |
| II   | 98 (LHD)  | Right Side of the Cowl Panel       |
|      | 108 (RHD) | Cowl Side Panel RH                 |

**: SPLICE POINTS**

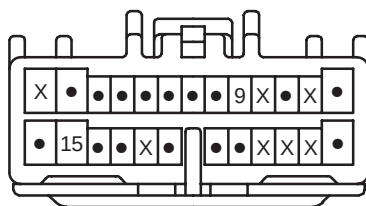
| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| I1   | 100 (LHD) | Cowl Wire                       | I8   | 110 (RHD) | Cowl Wire                       |

# HEADLIGHT (w/o DAYTIME RUNNING LIGHT)

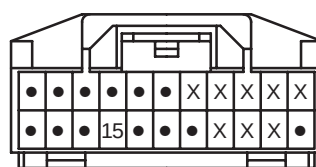
(LHD) B6 (A)



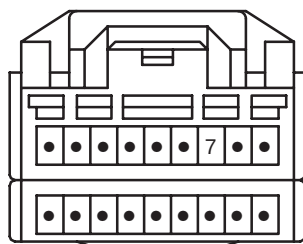
(RHD) B6 (A)



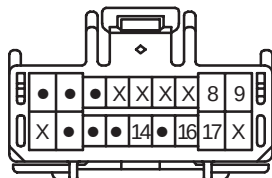
C11 (A)



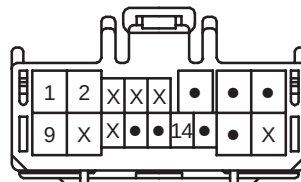
C12 (B)



(Except Australia) C13 (A)



(Australia) C13 (B)



H8



H9



H10 BLACK



H11 BROWN



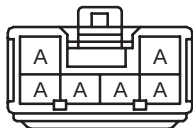
H12 BLACK



H13 BROWN

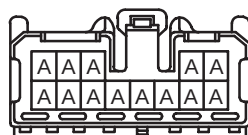


J8



(Hint : See Page 7, 23, 39)

J10 ORANGE



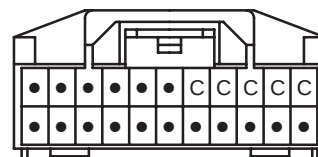
(Hint : See Page 7, 23, 39)

J11 (A) BLACK



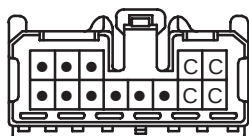
(Hint : See Page 7, 23, 39)

J15



(Hint : See Page 7, 23, 39)

J16



(Hint : See Page 7, 23, 39)

J18



(Hint : See Page 7, 23, 39)

J29 BLUE



(Hint : See Page 7, 23, 39)

J32



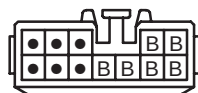
(Hint : See Page 7, 23, 39)

J33 (B) BLACK



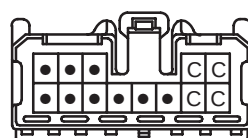
(Hint : See Page 7, 23, 39)

J37



(Hint : See Page 7, 23, 39)

J39



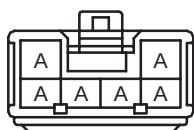
(Hint : See Page 7, 23, 39)

J40 GRAY



(Hint : See Page 7, 23, 39)

J42



(Hint : See Page 7, 23, 39)

## SERVICE HINTS

### HORN RELAY

5-3 : Closed horn SW on

### ○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| B5   | 72 (LHD) | C15  | 86 (RHD) | H19  | 68 (LHD) |
|      | 86 (RHD) | H18  | 68 (LHD) |      | 82 (RHD) |
| C15  | 72 (LHD) |      | 82 (RHD) | J19  | 74 (LHD) |

### ○ : RELAY BLOCKS

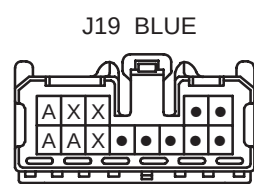
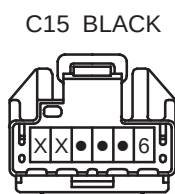
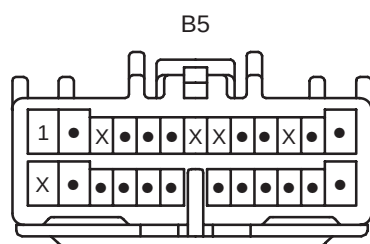
| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |
| 2    | 55 (LHD) | Engine Room No.2 R/B (Engine Compartment Left)  |
|      | 55 (RHD) | Engine Room No.2 R/B (Engine Compartment Right) |

### □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)        |
|------|-----------|-------------------------------------------------------------------|
| II2  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B) |
| IK3  | 110 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)    |

### ○ : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|----------|---------------------------------|
| I8   | 110 (RHD) | Cowl Wire                       |      |          |                                 |



(Hint : See Page 7, 23, 39)

# INTERIOR LIGHT (LHD)

## SYSTEM OUTLINE

### ILLUMINATED ENTRY SYSTEM

This system provides various functions listed below through communication control of the body ECU and door ECU etc.

- \* Each relevant light lights up if any door is opened.
- \* If all the doors are closed with the ignition SW set at OFF after any door is opened, each light lights up for **15 sec.**, and then fades out when the time set on the timer has elapsed.
- \* If any door is unlocked from the driver or passenger side or if any door is unlocked with the unlock SW on the transmitter after all the doors are closed and locked, each light lights up for **15 sec.**, and then fades out when the time set on the timer has elapsed.
- \* If the ignition SW is turned to the **ACC** or **ON** position while each light is being lit by the timer, the timer lighting is cancelled and the light fades out.
- \* If all the doors are closed and locked from the driver or passenger side or with the lock SW on the transmitter while each light is being lit, the timer lighting is cancelled and the light fades out.
- \* If all the doors are closed with the ignition SW set at **ACC** or **ON** after any door is opened, the timer lighting is cancelled and the light fades out.
- \* Each light above is the interior light, ignition key cylinder light, and step lights LH and RH.

## SERVICE HINTS

### D8, D9, D10, D11 DOOR COURTESY SW FRONT LH, RH, REAR LH, RH

1-2 : Closed with door open

### L5 LUGGAGE COMPARTMENT DOOR COURTESY SW

2-GROUND : Luggage compartment door open

### W6 WIRELESS DOOR LOCK ECU

7-GROUND : Always approx. **12** volts

1-GROUND : Always continuity

### D19 (B) DRIVER DOOR ECU

15-14 : Continuity with driver door open

### F12 (B) FRONT PASSENGER DOOR ECU

15-14 : Continuity with front passenger door open

### R13 REAR DOOR LH ECU

8-18 : Continuity with rear LH door open

### R14 REAR DOOR RH ECU

8-18 : Continuity with rear RH door open

## ○ : PARTS LOCATION

| Code |   | See Page | Code |   | See Page | Code | See Page |
|------|---|----------|------|---|----------|------|----------|
| A16  |   | 72 (LHD) | D20  | C | 76 (LHD) | L5   | 78 (LHD) |
| B5   | A | 72 (LHD) | E5   |   | 68 (LHD) | L7   | 78 (LHD) |
| B6   | A | 72 (LHD) | F11  | A | 76 (LHD) | M2   | 74 (LHD) |
| C12  |   | 72 (LHD) | F12  | B | 76 (LHD) | P6   | 78 (LHD) |
| D3   |   | 76 (LHD) | F13  | C | 76 (LHD) | P19  | 80 (LHD) |
| D4   |   | 76 (LHD) | I11  |   | 72 (LHD) | R13  | 78 (LHD) |
| D5   |   | 76 (LHD) | I14  |   | 78 (LHD) | R14  | 78 (LHD) |
| D6   |   | 76 (LHD) | I15  |   | 78 (LHD) | S6   | 74 (LHD) |
| D7   |   | 76 (LHD) | J7   |   | 74 (LHD) | S7   | 74 (LHD) |
| D8   |   | 76 (LHD) | J8   |   | 74 (LHD) | T5   | 74 (LHD) |
| D9   |   | 76 (LHD) | J10  |   | 74 (LHD) | V6   | 78 (LHD) |
| D10  |   | 76 (LHD) | J13  |   | 74 (LHD) | V7   | 78 (LHD) |
| D11  |   | 76 (LHD) | J16  |   | 74 (LHD) | W6   | 78 (LHD) |
| D18  | A | 76 (LHD) | J18  |   | 74 (LHD) |      |          |
| D19  | B | 76 (LHD) | J22  |   | 78 (LHD) |      |          |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |



 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)            |
|------|----------|-----------------------------------------------------------------|
| 1E   | 58 (LHD) | Floor No.2 Wire and Driver Side J/B (Left Kick Panel)           |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
| 1G   | 59 (LHD) |                                                                 |
| 1H   |          |                                                                 |
| 2B   | 60 (LHD) | Engine Room Main Wire and Passenger Side J/B (Right Kick Panel) |
| 2D   | 60 (LHD) | Roof Wire and Passenger Side J/B (Right Kick Panel)             |
| 2E   | 60 (LHD) | Floor No.1 Wire and Passenger Side J/B (Right Kick Panel)       |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)             |
| 2G   | 61 (LHD) |                                                                 |
| 2H   |          |                                                                 |

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)             |
|------|-----------|------------------------------------------------------------------------|
| IB1  | 98 (LHD)  | Front Door LH Wire and Cowl Wire (Left Kick Panel)                     |
| IC1  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                        |
| IC2  |           |                                                                        |
| IC3  |           |                                                                        |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column) |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)     |
| IJ2  |           |                                                                        |
| IK1  | 100 (LHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                    |
| IL1  | 100 (LHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                       |
| IL3  |           |                                                                        |
| BA1  | 102 (LHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)     |
| BB1  | 102 (LHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)     |
| BC1  | 104 (LHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)       |

 : GROUND POINTS

| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| IF   | 98 (LHD)  | Left Kick Panel               |
| II   | 98 (LHD)  | Right Side of the Cowl Panel  |
| BJ   | 102 (LHD) | Rear Floor Partition Panel LH |
| BL   | 102 (LHD) | Rear Floor Partition Panel RH |
| BM   | 102 (LHD) | Quarter Panel RH              |

 : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| I1   | 100 (LHD) | Cowl Wire                       | B2   | 102 (LHD) | Roof Wire                       |
| I6   |           |                                 |      |           |                                 |

\_\_\_\_\_

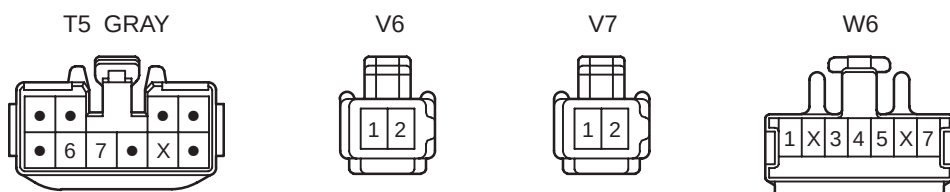
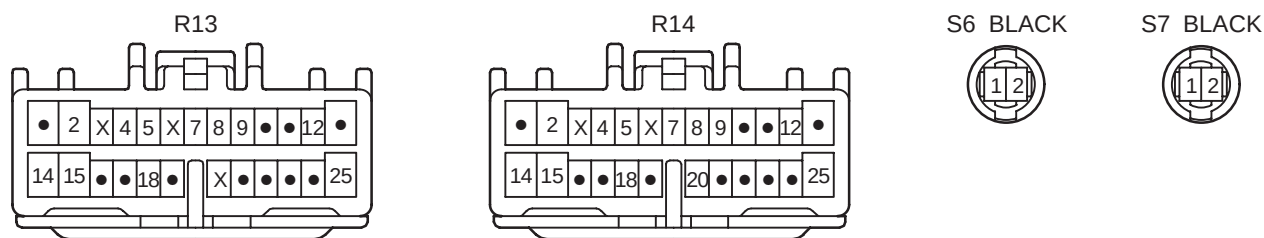
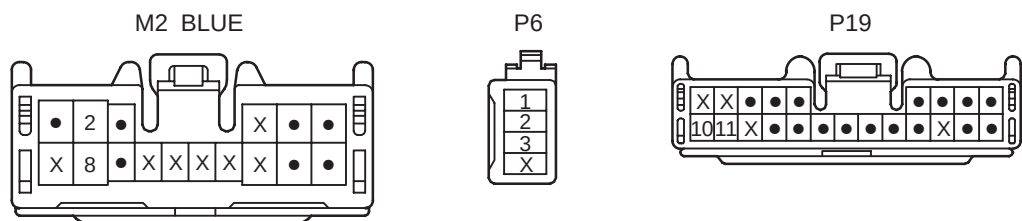
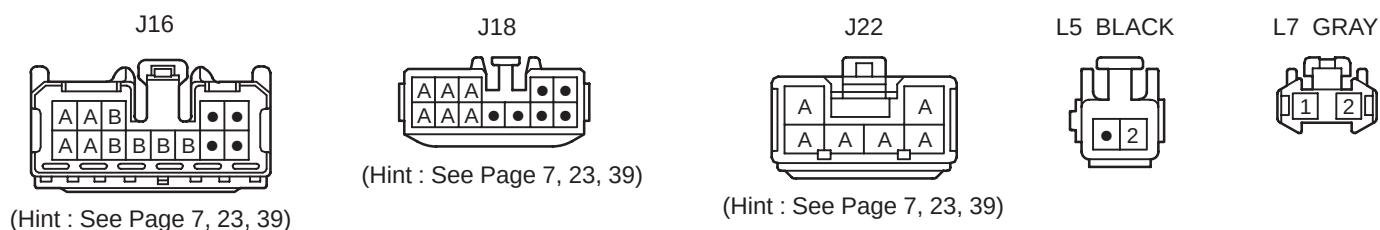
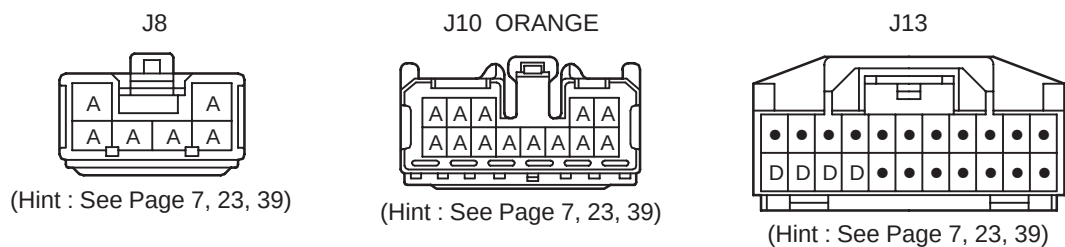
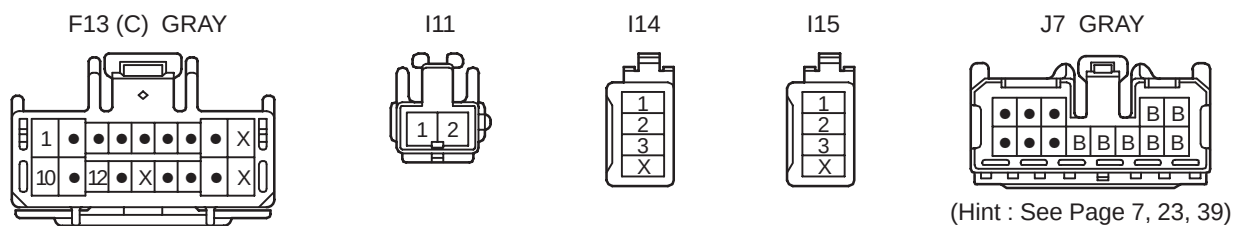
A diagram of a two-part connector, likely a cable or hose fitting. It consists of a central rectangular body divided into two equal halves, labeled '1' and '2'. This central body is flanked by two circular end fittings. The entire assembly is enclosed within a larger, irregular outer frame that has a top handle-like structure and a bottom flange.

A diagram of a two-part connector, likely a battery terminal or a similar electrical component. It consists of a central rectangular body divided into two equal halves, labeled '1' and '2'. This central body is flanked by two smaller rectangular sections. The entire assembly is enclosed within a larger, irregular frame that has a top handle-like structure and a bottom protrusion.

A diagram of a two-part connector. It consists of a central rectangular body divided into two equal halves, labeled '1' on the left and '2' on the right. This central body is flanked by two smaller rectangular sections on either side. The entire assembly is enclosed within a larger, irregular frame that has a top handle-like structure and a bottom protrusion.

A diagram of a two-chambered heart, showing two chambers labeled 1 and 2. Chamber 1 is on the left and chamber 2 is on the right. The heart is shown in cross-section, with a central ventricle and two atria. The chambers are labeled 1 and 2, corresponding to the labels in the text.

|   |   |   |   |   |   |   |    |    |   |
|---|---|---|---|---|---|---|----|----|---|
| X | X | X | • | • | • | • | •  | •  | X |
| • | • | X | • | X | • | • | •  | X  | X |
| X | • | X | • | X | X | • | 27 | 28 |   |



# INTERIOR LIGHT (RHD)

## SYSTEM OUTLINE

### ILLUMINATED ENTRY SYSTEM

This system provides various functions listed below through communication control of the body ECU and door ECU etc.

- \* Each relevant light lights up if any door is opened.
- \* If all the doors are closed with the ignition SW set at OFF after any door is opened, each light lights up for **15 sec.**, and then fades out when the time set on the timer has elapsed.
- \* If any door is unlocked from the driver or passenger side or if any door is unlocked with the unlock SW on the transmitter after all the doors are closed and locked, each light lights up for **15 sec.**, and then fades out when the time set on the timer has elapsed.
- \* If the ignition SW is turned to the **ACC** or **ON** position while each light is being lit by the timer, the timer lighting is cancelled and the light fades out.
- \* If all the doors are closed and locked from the driver or passenger side or with the lock SW on the transmitter while each light is being lit, the timer lighting is cancelled and the light fades out.
- \* If all the doors are closed with the ignition SW set at **ACC** or **ON** after any door is opened, the timer lighting is cancelled and the light fades out.
- \* Each light above is the interior light, ignition key cylinder light, and step lights LH and RH.

## SERVICE HINTS

### D8, D9, D10, D11 DOOR COURTESY SW FRONT LH, RH, REAR LH, RH

1-2 : Closed with door open

### L5 LUGGAGE COMPARTMENT DOOR COURTESY SW

2-GROUND : Luggage compartment door open

### W6 WIRELESS DOOR LOCK ECU

7-GROUND : Always approx. **12 volts**

1-GROUND : Always continuity

### D19 (B) DRIVER DOOR ECU

15-14 : Continuity with driver door open

### F12 (B) FRONT PASSENGER DOOR ECU

15-14 : Continuity with front passenger door open

### R13 REAR DOOR LH ECU

8-18 : Continuity with rear LH door open

### R14 REAR DOOR RH ECU

8-18 : Continuity with rear RH door open

## ○ : PARTS LOCATION

| Code |   | See Page | Code |   | See Page | Code | See Page |
|------|---|----------|------|---|----------|------|----------|
| A16  |   | 86 (RHD) | D20  | C | 90 (RHD) | L5   | 90 (RHD) |
| B5   | A | 86 (RHD) | E5   |   | 82 (RHD) | L7   | 90 (RHD) |
| B6   | A | 86 (RHD) | F11  | A | 90 (RHD) | M2   | 88 (RHD) |
| C12  |   | 86 (RHD) | F12  | B | 90 (RHD) | P6   | 92 (RHD) |
| D3   |   | 90 (RHD) | F13  | C | 90 (RHD) | P19  | 94 (RHD) |
| D4   |   | 90 (RHD) | I11  |   | 86 (RHD) | R13  | 92 (RHD) |
| D5   |   | 90 (RHD) | I14  |   | 90 (RHD) | R14  | 92 (RHD) |
| D6   |   | 90 (RHD) | I15  |   | 90 (RHD) | S6   | 88 (RHD) |
| D7   |   | 90 (RHD) | J31  |   | 88 (RHD) | S7   | 88 (RHD) |
| D8   |   | 90 (RHD) | J32  |   | 88 (RHD) | T5   | 88 (RHD) |
| D9   |   | 90 (RHD) | J37  |   | 88 (RHD) | V6   | 92 (RHD) |
| D10  |   | 90 (RHD) | J38  |   | 88 (RHD) | V7   | 92 (RHD) |
| D11  |   | 90 (RHD) | J41  |   | 88 (RHD) | W6   | 92 (RHD) |
| D18  | A | 90 (RHD) | J42  |   | 88 (RHD) |      |          |
| D19  | B | 90 (RHD) | J45  |   | 90 (RHD) |      |          |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)            |
|------|----------|------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left) |

**: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR**

| Code | See Page | Junction Block and Wire Harness (Connector Location)           |
|------|----------|----------------------------------------------------------------|
| 1E   | 58 (RHD) | Floor No.1 Wire and Driver Side J/B (Right Kick Panel)         |
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)               |
| 1G   | 59 (RHD) |                                                                |
| 1H   |          |                                                                |
| 2B   | 60 (RHD) | Engine Room Main Wire and Passenger Side J/B (Left Kick Panel) |
| 2D   | 60 (RHD) | Roof Wire and Passenger Side J/B (Left Kick Panel)             |
| 2E   | 60 (RHD) | Floor No.2 Wire and Passenger Side J/B (Left Kick Panel)       |
| 2F   | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)             |
| 2G   | 61 (RHD) |                                                                |
| 2H   |          |                                                                |

**: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS**

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|-----------|---------------------------------------------------------------------------|
| IB1  | 108 (RHD) | Front Door LH Wire and Cowl Wire (Left Kick Panel)                        |
| IC1  | 108 (RHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                           |
| IC2  |           |                                                                           |
| IC3  |           |                                                                           |
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)       |
| ID3  |           |                                                                           |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column)   |
| IL1  | 110 (RHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                       |
| IM1  | 110 (RHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                          |
| IM3  |           |                                                                           |
| BA1  | 112 (RHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)        |
| BB1  | 112 (RHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)        |
| BC1  | 114 (RHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Front Passenger's Seat) |
| BD1  | 114 (RHD) | Floor No.1 Wire and Front Seat RH Wire (Under the Driver's Seat)          |

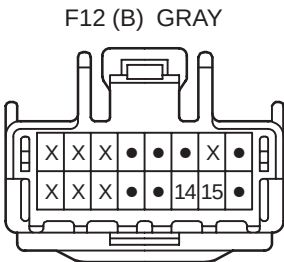
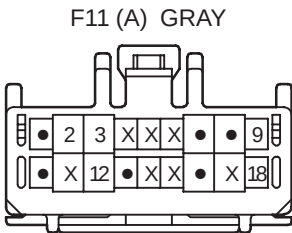
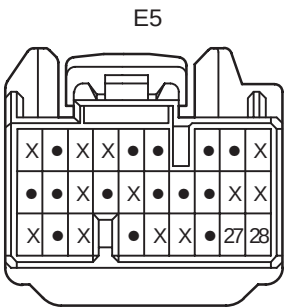
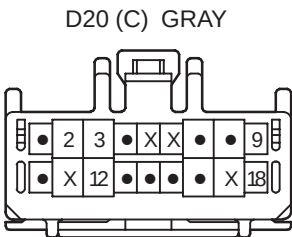
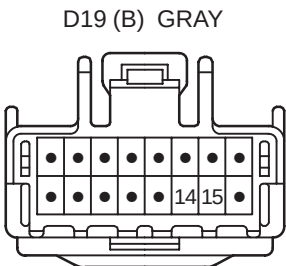
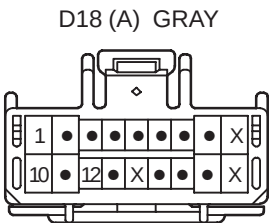
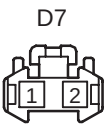
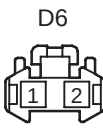
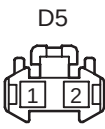
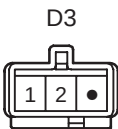
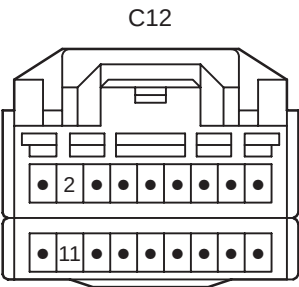
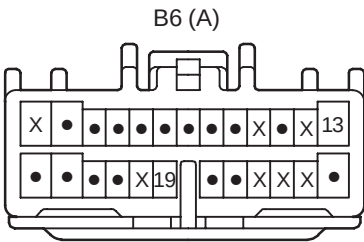
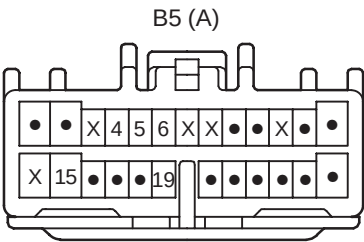
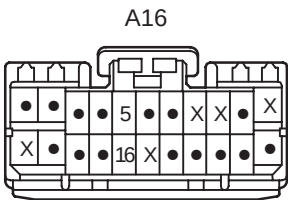
**: GROUND POINTS**

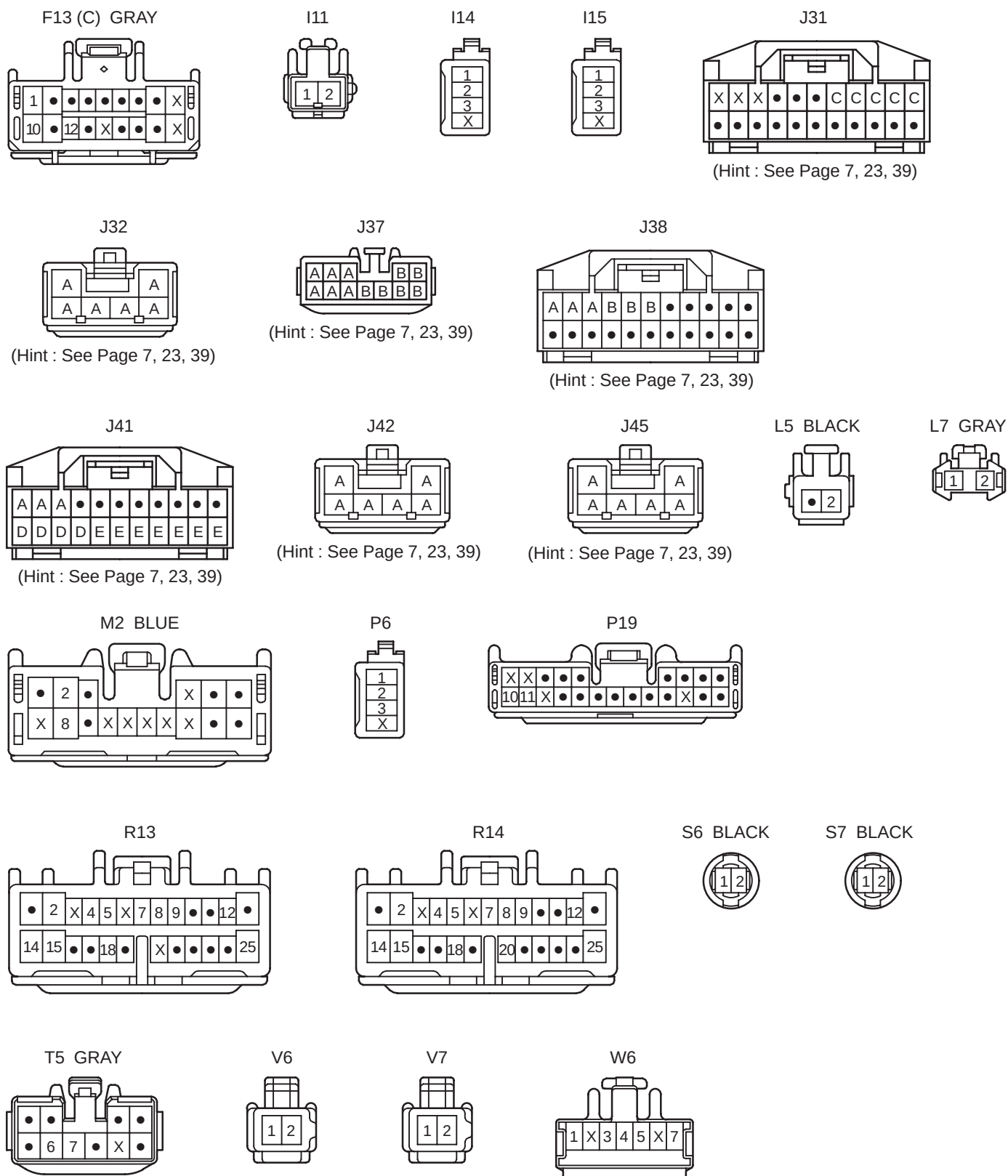
| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| IF   | 108 (RHD) | Left Kick Panel               |
| IG   | 108 (RHD) | Behind the Combination Meter  |
| II   | 108 (RHD) | Cowl Side Panel RH            |
| BJ   | 112 (RHD) | Rear Floor Partition Panel LH |
| BL   | 112 (RHD) | Rear Floor Partition Panel RH |
| BM   | 112 (RHD) | Quarter Panel RH              |

**: SPLICE POINTS**

| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| I7   | 110 (RHD) | Cowl Wire                       | B1   | 112 (RHD) | Roof Wire                       |
| I8   |           |                                 |      |           |                                 |

INTERIOR LIGHT (RHD)





# ILLUMINATION (LHD)

## SERVICE HINTS

### TAIL RELAY

5-3 : Closed with light control SW at **TAIL** or **HEAD** position

### C13 LIGHT CONTROL SW [COMB. SW]

15-16 : Closed with light control SW at **TAIL** or **HEAD** position

## : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| A16  | 72 (LHD) | G1   | 72 (LHD) | J18  | 74 (LHD) |
| A21  | 72 (LHD) | G2   | 72 (LHD) | M2   | 74 (LHD) |
| A36  | 76 (LHD) | H20  | 72 (LHD) | R2   | 74 (LHD) |
| A37  | 76 (LHD) | H21  | 72 (LHD) | R6   | 74 (LHD) |
| B6   | A        | H22  | 72 (LHD) | R7   | 74 (LHD) |
| C9   | 72 (LHD) | J8   | 74 (LHD) | R13  | 78 (LHD) |
| C13  | 72 (LHD) | J10  | 74 (LHD) | R14  | 78 (LHD) |
| D1   | 72 (LHD) | J13  | 74 (LHD) | S4   | 74 (LHD) |
| E11  | 72 (LHD) | J17  | 74 (LHD) | V4   | 74 (LHD) |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)                                   |
|------|----------|----------------------------------------------------------------------------------------|
| 1A   | 58 (LHD) | Engine Room Main Wire and Driver Side J/B (Left Kick Panel)                            |
| 1C   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)                            |
| 1E   | 58 (LHD) | Floor No.2 Wire and Driver Side J/B (Left Kick Panel)                                  |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                                        |
| 1G   | 59 (LHD) |                                                                                        |
| 1H   |          |                                                                                        |
| 3C   | 62       | Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Reinforcement Center) |
| 3D   |          |                                                                                        |
| 3E   | 63       |                                                                                        |
| 3F   |          |                                                                                        |
| 3G   |          |                                                                                        |
| 3H   |          |                                                                                        |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)         |
|------|-----------|--------------------------------------------------------------------|
| IC1  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                    |
| IJ2  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit) |
| IL1  | 100 (LHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                   |
| BA1  | 102 (LHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH) |
| BB1  | 102 (LHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH) |

## : GROUND POINTS

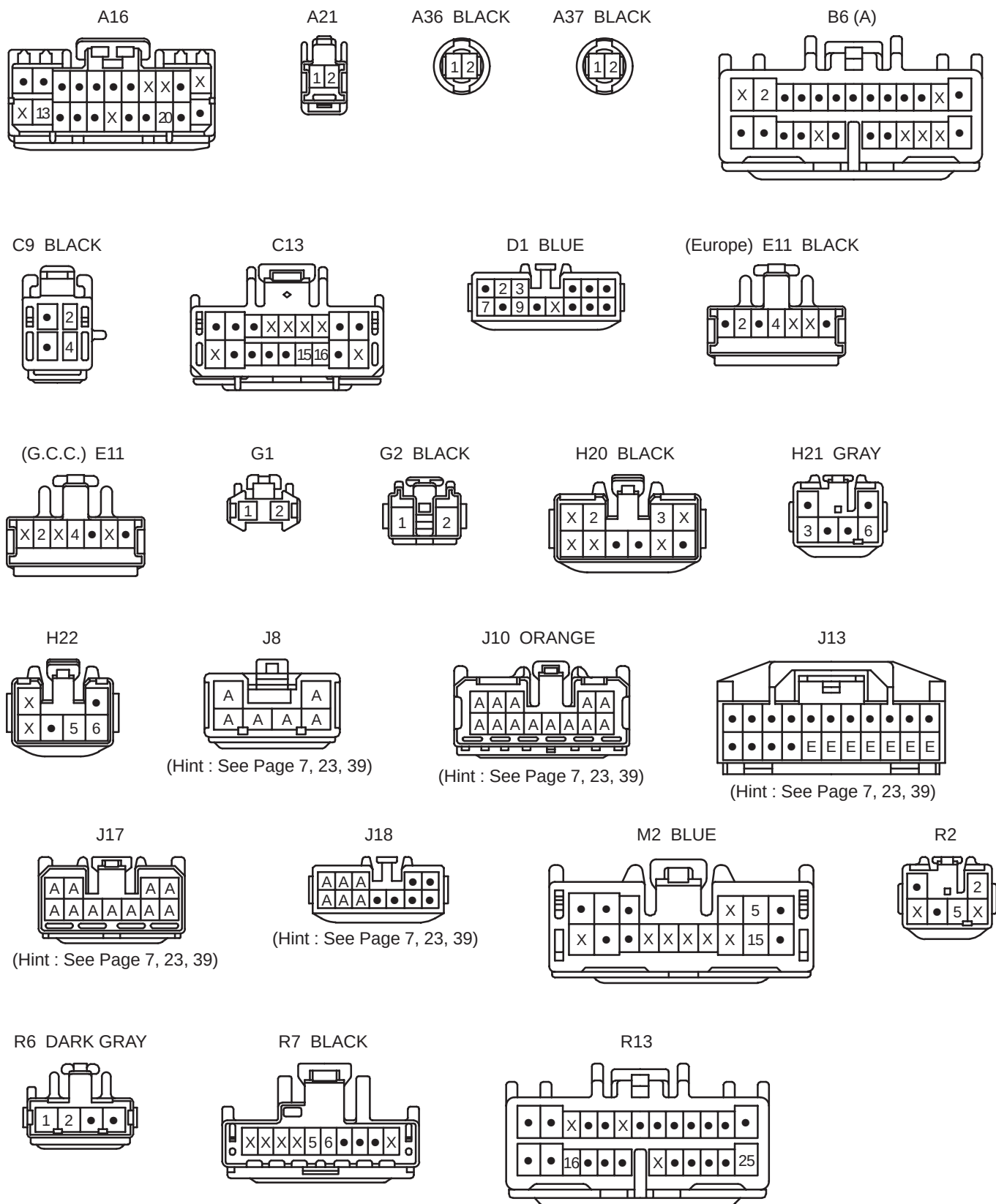
| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| IF   | 98 (LHD)  | Left Kick Panel               |
| IH   | 98 (LHD)  | Instrument Panel Brace RH     |
| II   | 98 (LHD)  | Right Side of the Cowl Panel  |
| BJ   | 102 (LHD) | Rear Floor Partition Panel LH |
| BL   | 102 (LHD) | Rear Floor Partition Panel RH |





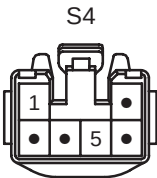
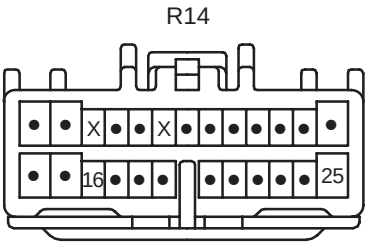
## : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|----------|---------------------------------|
| I1   | 100 (LHD) | Cowl Wire                       |      |          |                                 |



ILLUMINATION (LHD)

---



# ILLUMINATION (RHD)

## SERVICE HINTS

### TAIL RELAY

5-3 : Closed with light control SW at **TAIL** or **HEAD** position

### C13 (A), (B) LIGHT CONTROL SW [COMB. SW]

(A) 15-(A) 16, (B) 15-(B) 9 : Closed with light control SW at **TAIL** or **HEAD** position

## : PARTS LOCATION

| Code | See Page   | Code | See Page | Code | See Page |
|------|------------|------|----------|------|----------|
| A16  | 86 (RHD)   | G1   | 86 (RHD) | M2   | 88 (RHD) |
| A21  | 86 (RHD)   | G2   | 86 (RHD) | R2   | 88 (RHD) |
| A36  | 90 (RHD)   | H20  | 86 (RHD) | R6   | 88 (RHD) |
| A37  | 90 (RHD)   | H21  | 86 (RHD) | R7   | 88 (RHD) |
| B6   | A 86 (RHD) | H22  | 86 (RHD) | R13  | 92 (RHD) |
| C9   | 86 (RHD)   | J32  | 88 (RHD) | R14  | 92 (RHD) |
| C13  | A 86 (RHD) | J37  | 88 (RHD) | S4   | 88 (RHD) |
|      | B 86 (RHD) | J38  | 88 (RHD) | V4   | 88 (RHD) |
| E11  | 86 (RHD)   | J42  | 88 (RHD) |      |          |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)            |
|------|----------|------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left) |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)                                   |
|------|----------|----------------------------------------------------------------------------------------|
| 1A   | 58 (RHD) | Engine Room Main Wire and Driver Side J/B (Right Kick Panel)                           |
| 1C   | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel)                           |
| 1E   | 58 (RHD) | Floor No.1 Wire and Driver Side J/B (Right Kick Panel)                                 |
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                                       |
| 1G   | 59 (RHD) |                                                                                        |
| 1H   |          |                                                                                        |
| 3A   | 62       | Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Reinforcement Center) |
| 3C   |          |                                                                                        |
| 3E   | 63       |                                                                                        |
| 3F   |          |                                                                                        |
| 3G   |          |                                                                                        |
| 3H   |          |                                                                                        |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)         |
|------|-----------|--------------------------------------------------------------------|
| IC1  | 108 (RHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                    |
| BA1  | 112 (RHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH) |
| BB1  | 112 (RHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH) |

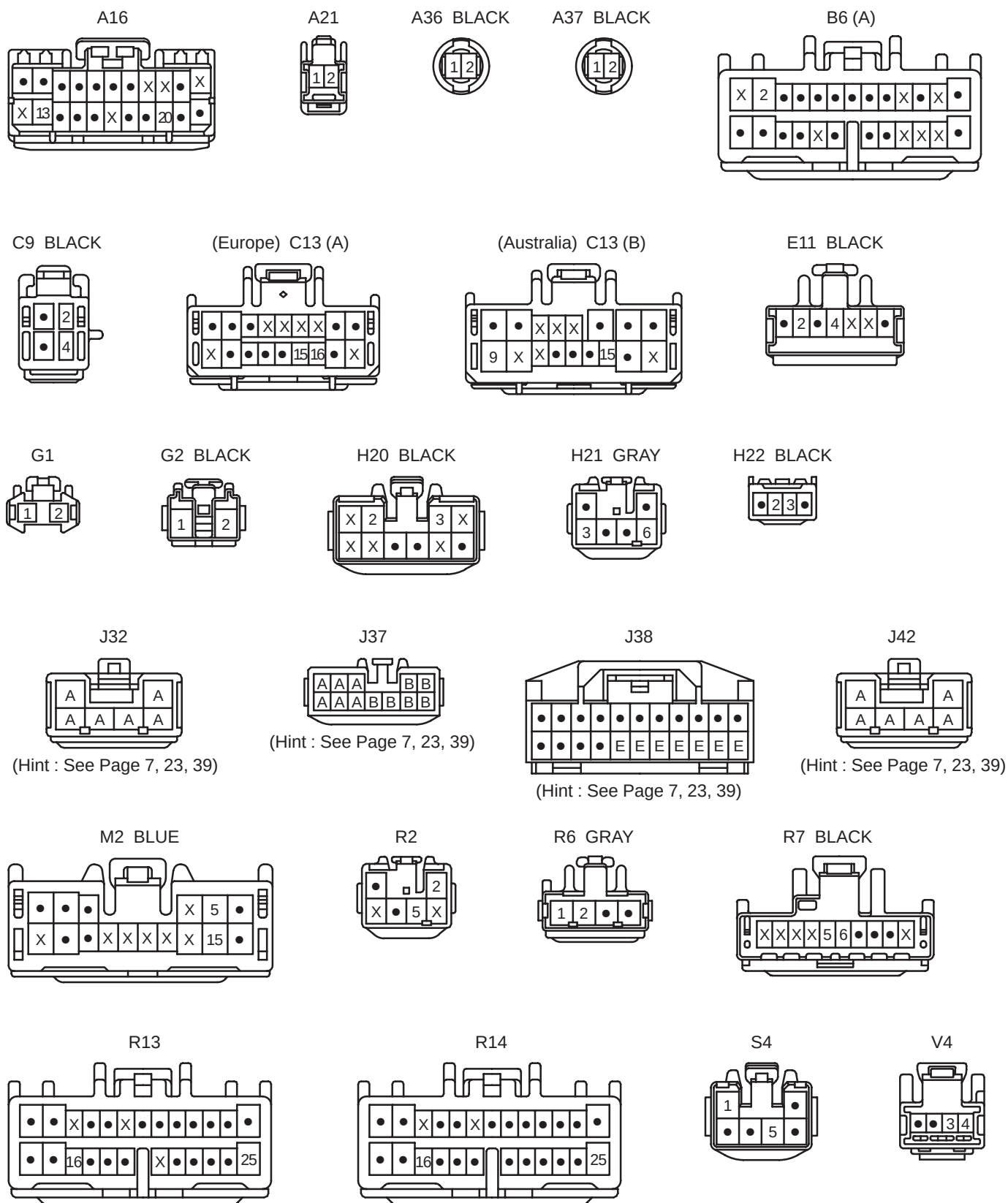
## : GROUND POINTS

| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| IF   | 108 (RHD) | Left Kick Panel               |
| IG   | 108 (RHD) | Behind the Combination Meter  |
| IH   | 108 (RHD) | Instrument Panel Brace LH     |
| II   | 108 (RHD) | Cowl Side Panel RH            |
| BJ   | 112 (RHD) | Rear Floor Partition Panel LH |
| BL   | 112 (RHD) | Rear Floor Partition Panel RH |



## : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| I2   | 110 (RHD) | Cowl Wire                       | I7   | 110 (RHD) | Cowl Wire                       |



## SYSTEM OUTLINE

### 1. SEAT BELT WARNING SYSTEM

When the ignition SW is turned to the ON position, the signal is input to the body ECU and door ECU. At this time, to determine whether or not the driver fastens the seat belt, the signal from the buckle SW LH is input to **TERMINAL DBKL** of the body ECU No.2. If the driver does not fasten the seat belt, the seat belt warning light in the combination meter flashes and the alarm buzzer goes on, in response to the communication control of the body ECU and door ECU etc.

Additionally, the sensor (Seat belt warning occupant detection sensor) installed on the front passenger seat detects the passenger and determines whether or not the passenger fastens the seat belt.

If the passenger does not fasten the seat belt, the signals from the seat belt warning occupant detection sensor and buckle SW RH are input to **TERMINAL PBKL** of the body ECU No.1 and through communication control of the body ECU and door ECU etc. the passenger seat belt warning light in the clock is flashed.

### 2. KEY REMINDER SYSTEM

If the driver door is opened with the ignition SW set at the **ACC** or **OFF** position and the ignition key remained inserted into the key cylinder (The unlock warning SW is on), the signal from the unlock warning SW is input to **TERMINAL KSW** of the body ECU No.2 and the signal from the door courtesy SW front LH is input to **TERMINAL CTY** of driver door ECU. As a result, through communication control of the body ECU and door ECU etc. the buzzer in the combination meter goes on to warn the driver that the ignition key is still inserted.

## SERVICE HINTS

### S17 SEAT BELT WARNING OCCUPANT DETECTION SENSOR

1-2 : Closed with passenger sit on the front passenger seat

## : PARTS LOCATION

| Code |   | See Page | Code |   | See Page | Code | See Page |
|------|---|----------|------|---|----------|------|----------|
| A16  |   | 72 (LHD) | D18  | A | 76 (LHD) | J16  | 74 (LHD) |
| B5   | A | 72 (LHD) | D19  | B | 76 (LHD) | J18  | 74 (LHD) |
| B6   | A | 72 (LHD) | D20  | C | 76 (LHD) | J23  | 80 (LHD) |
| B7   |   | 80 (LHD) | E5   |   | 68 (LHD) | J24  | 80 (LHD) |
| B8   |   | 80 (LHD) | J7   |   | 74 (LHD) | M2   | 74 (LHD) |
| C10  |   | 72 (LHD) | J8   |   | 74 (LHD) | S17  | 80 (LHD) |
| C11  | A | 72 (LHD) | J9   |   | 74 (LHD) | T5   | 74 (LHD) |
| C12  | B | 72 (LHD) | J10  |   | 74 (LHD) | U1   | 74 (LHD) |
| D8   |   | 76 (LHD) | J13  |   | 74 (LHD) |      |          |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)                                   |
|------|----------|----------------------------------------------------------------------------------------|
| 1C   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)                            |
| 1D   |          |                                                                                        |
| 1E   | 58 (LHD) | Floor No.2 Wire and Driver Side J/B (Left Kick Panel)                                  |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                                        |
| 1G   | 59 (LHD) |                                                                                        |
| 1H   |          |                                                                                        |
| 2B   | 60 (LHD) | Engine Room Main Wire and Passenger Side J/B (Right Kick Panel)                        |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)                                    |
| 2G   | 61 (LHD) |                                                                                        |
| 3B   | 62       | Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Reinforcement Center) |
| 3G   | 63       |                                                                                        |

# KEY REMINDER AND SEAT BELT WARNING (LHD)

 : **CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS**

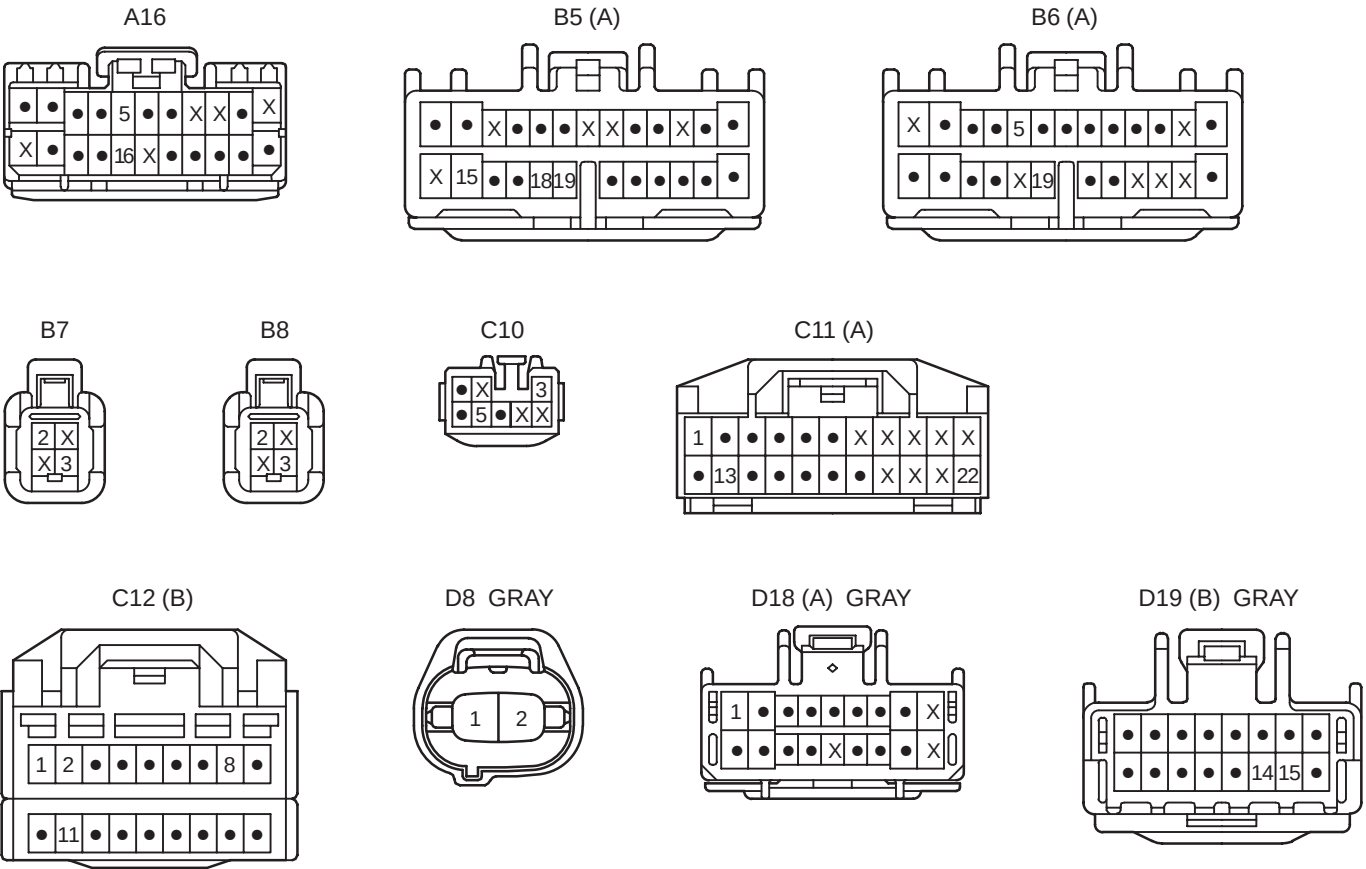
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|-----------|---------------------------------------------------------------------------|
| IB1  | 98 (LHD)  | Front Door LH Wire and Cowl Wire (Left Kick Panel)                        |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column)    |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)        |
| IJ2  |           |                                                                           |
| IL1  | 100 (LHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                          |
| BC1  | 104 (LHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)          |
| BD1  | 104 (LHD) | Floor No.1 Wire and Front Seat RH Wire (Under the Front Passenger's Seat) |

 : **GROUND POINTS**

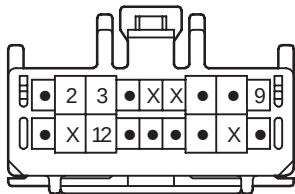
| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| IF   | 98 (LHD)  | Left Kick Panel               |
| II   | 98 (LHD)  | Right Side of the Cowl Panel  |
| BJ   | 102 (LHD) | Rear Floor Partition Panel LH |
| BL   | 102 (LHD) | Rear Floor Partition Panel RH |

 : **SPLICE POINTS**

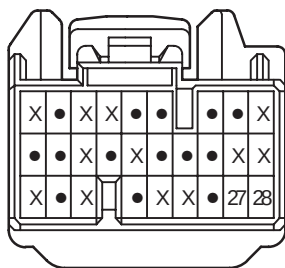
| Code | See Page  | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|----------|---------------------------------|
| I6   | 100 (LHD) | Cowl Wire                       |      |          |                                 |



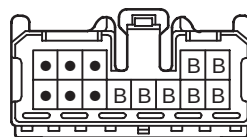
D20 (C) GRAY



E5

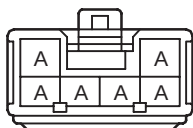


J7 GRAY



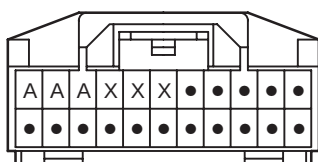
(Hint : See Page 7, 23, 39)

J8



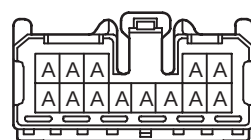
(Hint : See Page 7, 23, 39)

J9



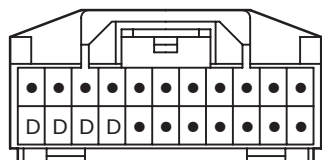
(Hint : See Page 7, 23, 39)

J10 ORANGE



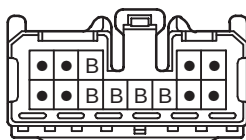
(Hint : See Page 7, 23, 39)

J13



(Hint : See Page 7, 23, 39)

J16



(Hint : See Page 7, 23, 39)

J18



(Hint : See Page 7, 23, 39)

J23



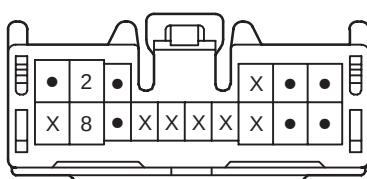
(Hint : See Page 7, 23, 39)

J24

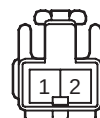


(Hint : See Page 7, 23, 39)

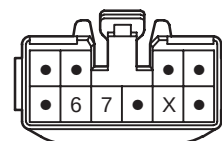
M2 BLUE



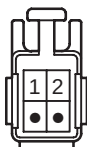
S17 GREEN



T5 GRAY



U1



## SYSTEM OUTLINE

### 1. SEAT BELT WARNING SYSTEM

When the ignition SW is turned to the ON position, the signal is input to the body ECU and door ECU. At this time, to determine whether or not the driver fastens the seat belt, the signal from the buckle SW RH is input to **TERMINAL DBKL** of the body ECU No.2. If the driver does not fasten the seat belt, the seat belt warning light in the combination meter flashes and the alarm buzzer goes on, in response to the communication control of the body ECU and door ECU etc.

Additionally, the sensor (Seat belt warning occupant detection sensor) installed on the front passenger seat detects the passenger and determines whether or not the passenger fastens the seat belt.

If the passenger does not fasten the seat belt, the signals from the seat belt warning occupant detection sensor and buckle SW LH are input to **TERMINAL PBKL** of the body ECU No.1 and through communication control of the body ECU and door ECU etc. the passenger seat belt warning light in the clock is flashed.

### 2. KEY REMINDER SYSTEM

If the driver door is opened with the ignition SW set at the **ACC** or **OFF** position and the ignition key remained inserted into the key cylinder (The unlock warning SW is on), the signal from the unlock warning SW is input to **TERMINAL KSW** of the body ECU No.2 and the signal from the door courtesy SW front RH is input to **TERMINAL CTY** of driver door ECU. As a result, through communication control of the body ECU and door ECU etc. the buzzer in the combination meter goes on to warn the driver that the ignition key is still inserted.

## SERVICE HINTS

### S17 SEAT BELT WARNING OCCUPANT DETECTION SENSOR

1-2 : Closed with passenger sit on the front passenger seat

## : PARTS LOCATION

| Code |   | See Page | Code |   | See Page | Code | See Page |
|------|---|----------|------|---|----------|------|----------|
| A16  |   | 86 (RHD) | D18  | A | 90 (RHD) | J41  | 88 (RHD) |
| B5   | A | 86 (RHD) | D19  | B | 90 (RHD) | J42  | 88 (RHD) |
| B6   | A | 86 (RHD) | D20  | C | 90 (RHD) | J46  | 94 (RHD) |
| B7   |   | 94 (RHD) | E5   |   | 82 (RHD) | J47  | 94 (RHD) |
| B8   |   | 94 (RHD) | J31  |   | 88 (RHD) | M2   | 88 (RHD) |
| C10  |   | 86 (RHD) | J32  |   | 88 (RHD) | S17  | 94 (RHD) |
| C11  | A | 86 (RHD) | J37  |   | 88 (RHD) | T5   | 88 (RHD) |
| C12  | A | 86 (RHD) | J38  |   | 88 (RHD) | U1   | 88 (RHD) |
| D9   |   | 90 (RHD) | J40  |   | 88 (RHD) |      |          |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)            |
|------|----------|------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left) |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)                                   |
|------|----------|----------------------------------------------------------------------------------------|
| 1C   | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel)                           |
| 1D   |          |                                                                                        |
| 1E   | 58 (RHD) | Floor No.1 Wire and Driver Side J/B (Right Kick Panel)                                 |
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                                       |
| 1G   | 59 (RHD) |                                                                                        |
| 1H   |          |                                                                                        |
| 2B   | 60 (RHD) | Engine Room Main Wire and Passenger Side J/B (Left Kick Panel)                         |
| 2F   | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)                                     |
| 2G   | 61 (RHD) |                                                                                        |
| 3A   | 62       | Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Reinforcement Center) |
| 3B   |          |                                                                                        |



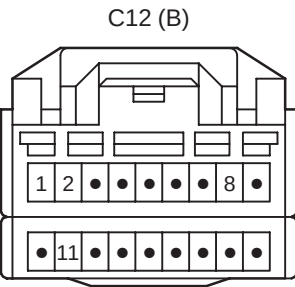
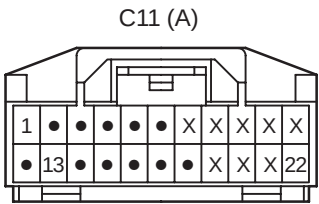
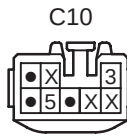
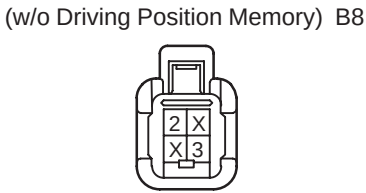
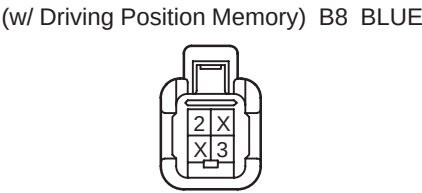
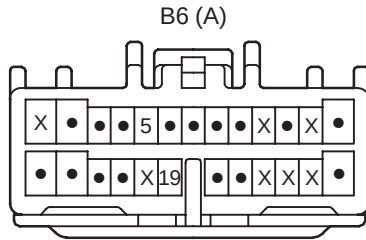
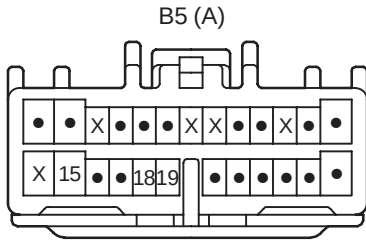
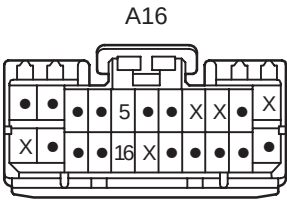
# KEY REMINDER AND SEAT BELT WARNING (RHD)

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

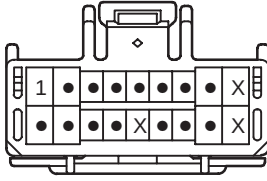
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|-----------|---------------------------------------------------------------------------|
| IC1  | 108 (RHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                           |
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)       |
| ID3  |           |                                                                           |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column)   |
| IL1  | 110 (RHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                       |
| BC1  | 114 (RHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Front Passenger's Seat) |
| BD1  | 114 (RHD) | Floor No.1 Wire and Front Seat RH Wire (Under the Driver's Seat)          |

 : GROUND POINTS

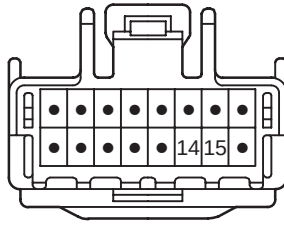
| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| IF   | 108 (RHD) | Left Kick Panel               |
| IG   | 108 (RHD) | Behind the Combination Meter  |
| II   | 108 (RHD) | Cowl Side Panel RH            |
| BJ   | 112 (RHD) | Rear Floor Partition Panel LH |
| BL   | 112 (RHD) | Rear Floor Partition Panel RH |



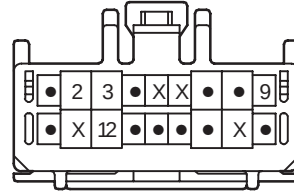
D18 (A) GRAY



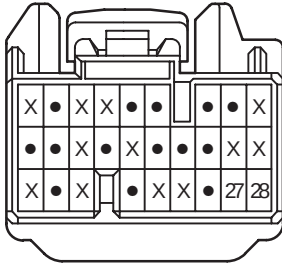
D19 (B) GRAY



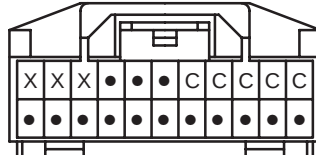
D20 (C) GRAY



E5

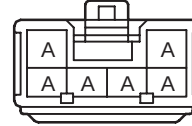


J31



(Hint : See Page 7, 23, 39)

J32



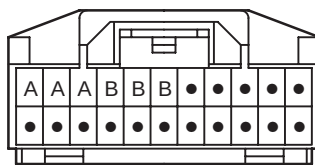
(Hint : See Page 7, 23, 39)

J37



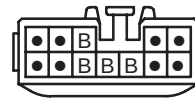
(Hint : See Page 7, 23, 39)

J38



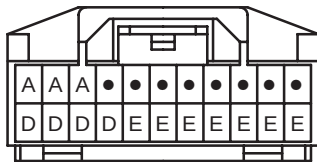
(Hint : See Page 7, 23, 39)

J40 GRAY



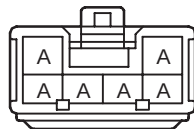
(Hint : See Page 7, 23, 39)

J41



(Hint : See Page 7, 23, 39)

J42



(Hint : See Page 7, 23, 39)

J46



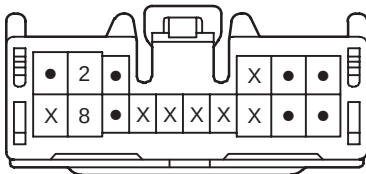
(Hint : See Page 7, 23, 39)

J47



(Hint : See Page 7, 23, 39)

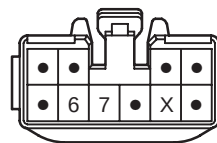
M2 BLUE



S17 GREEN



T5 GRAY



U1



## SYSTEM OUTLINE

This system automatically turns off the taillights and/or headlights when the driver door is opened and closed to prevent the lights from remaining lit.

### LIGHT AUTO TURN OFF OPERATION

#### \* Taillights ON

If the ignition SW is turned from ON to OFF with the taillights turned on (The light control SW is set at TAIL), the signal is input to **TERMINAL IG** of the body ECU No.2. At this time, if the driver door is opened, the signal is input from the door courtesy SW front LH to **TERMINAL CTY** of the driver door ECU. After that, **TERMINAL TRLY** of the body ECU No.2 is controlled through communication control of the body ECU and door ECU etc. to turn off the tail relay. As a result, the current flowing into the taillights is cut off to turn off the taillights.

#### \* Taillights and headlights ON

If the ignition SW is turned from ON to OFF with the taillights and headlights turned on (The light control SW is set at HEAD), the signal is input to **TERMINAL IG** of the body ECU No.2. At this time, if any door is opened, the signal is input from the door courtesy SW to **TERMINAL CTY** of the door ECU. During this operation, the taillights and headlights are remained lit. When all doors and the luggage door are closed, the taillights and headlights are turned on for **30 sec.** through communication control of the body ECU and door ECU. After the set time has elapsed, a signal is input to **TERMINAL TRLY** and **HRLY** of the body ECU No.2, to turn off the tail relay and HEAD LP relay. As a result, the current flowing into the taillights and headlights is cut off to turn off the taillights and headlights.

If any door is opened during above operation, the taillights and headlights light up for **30 sec.** again, and then go off after all the doors have been closed.

Additionally, if the vehicle is locked using the wireless door lock operation while the taillights and headlights are being turned on for **30 sec.**, the taillights and headlights go off immediately.

## SERVICE HINTS

### C13 COMBINATION SW

15-16 : Closed with light control SW at **TAIL** or **HEAD** position

14-16 : Closed with light control SW at **HEAD** position

13-16 : Closed with light control SW at **AUTO** position

### W6 WIRELESS DOOR LOCK ECU

7-GROUND : Always approx. **12** volts

1-GROUND : Always continuity

### D8, D9, D10, D11 DOOR COURTESY SW FRONT LH, RH, REAR LH, RH

1-2 : Closed with door open

### D19 (B) DRIVER DOOR ECU

15-14 : Continuity with driver door open

### F12 (B) FRONT PASSENGER DOOR ECU

15-14 : Continuity with front passenger door open

### R13 REAR DOOR LH ECU

8-18 : Continuity with rear LH door open

### R14 REAR DOOR RH ECU

8-18 : Continuity with rear RH door open

# LIGHT AUTO TURN OFF (LHD)

## : PARTS LOCATION

| Code |   | See Page |  | Code |   | See Page |  | Code |          | See Page |  |
|------|---|----------|--|------|---|----------|--|------|----------|----------|--|
| A16  |   | 72 (LHD) |  | D19  | B | 76 (LHD) |  | J16  | 74 (LHD) |          |  |
| B5   | A | 72 (LHD) |  | D20  | C | 76 (LHD) |  | J18  | 74 (LHD) |          |  |
| B6   | A | 72 (LHD) |  | E5   |   | 68 (LHD) |  | J22  | 78 (LHD) |          |  |
| C12  |   | 72 (LHD) |  | F11  | A | 76 (LHD) |  | M2   | 74 (LHD) |          |  |
| C13  |   | 72 (LHD) |  | F12  | B | 76 (LHD) |  | P19  | 80 (LHD) |          |  |
| D1   |   | 72 (LHD) |  | F13  | C | 76 (LHD) |  | R13  | 78 (LHD) |          |  |
| D8   |   | 76 (LHD) |  | J7   |   | 74 (LHD) |  | R14  | 78 (LHD) |          |  |
| D9   |   | 76 (LHD) |  | J8   |   | 74 (LHD) |  | T5   | 74 (LHD) |          |  |
| D10  |   | 76 (LHD) |  | J10  |   | 74 (LHD) |  | W6   | 78 (LHD) |          |  |
| D11  |   | 76 (LHD) |  | J13  |   | 74 (LHD) |  |      |          |          |  |
| D18  | A | 76 (LHD) |  | J15  |   | 74 (LHD) |  |      |          |          |  |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)        |
|------|----------|-------------------------------------------------------------|
| 1A   | 58 (LHD) | Engine Room Main Wire and Driver Side J/B (Left Kick Panel) |
| 1E   | 58 (LHD) | Floor No.2 Wire and Driver Side J/B (Left Kick Panel)       |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)             |
| 1G   | 59 (LHD) |                                                             |
| 1H   |          |                                                             |
| 2B   | 60 (LHD) |                                                             |
| 2E   | 60 (LHD) | Floor No.1 Wire and Passenger Side J/B (Right Kick Panel)   |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)         |
| 2G   | 61 (LHD) |                                                             |
| 2H   |          |                                                             |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)             |
|------|-----------|------------------------------------------------------------------------|
| IB1  | 98 (LHD)  | Front Door LH Wire and Cowl Wire (Left Kick Panel)                     |
| IC2  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                        |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column) |
| II2  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)      |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)     |
| IK1  | 100 (LHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                    |
| IL1  | 100 (LHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                       |
| IL3  |           |                                                                        |
| BA1  | 102 (LHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)     |
| BB1  | 102 (LHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)     |
| BC1  | 104 (LHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)       |

## : GROUND POINTS

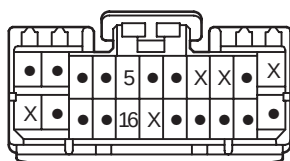
| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| IF   | 98 (LHD)  | Left Kick Panel               |
| II   | 98 (LHD)  | Right Side of the Cowl Panel  |
| BJ   | 102 (LHD) | Rear Floor Partition Panel LH |
| BL   | 102 (LHD) | Rear Floor Partition Panel RH |
| BM   | 102 (LHD) | Quarter Panel RH              |



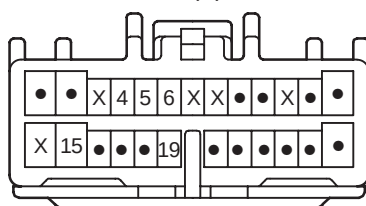
# : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|----------|---------------------------------|
| I6   | 100 (LHD) | Cowl Wire                       |      |          |                                 |

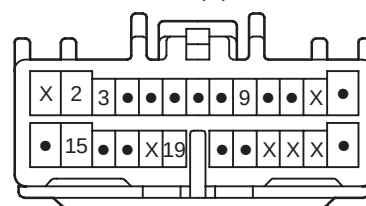
A16



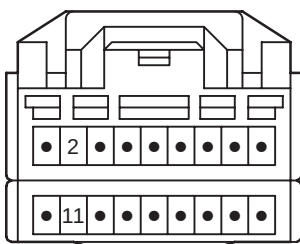
B5 (A)



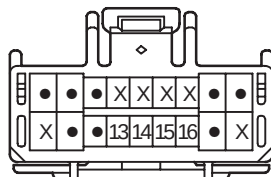
B6 (A)



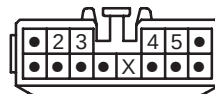
C12



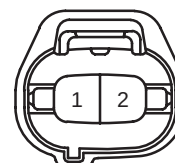
C13



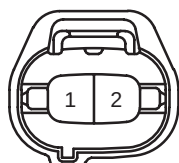
D1 BLUE



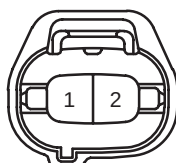
D8 GRAY



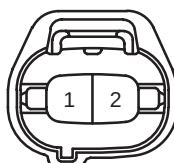
D9 GRAY



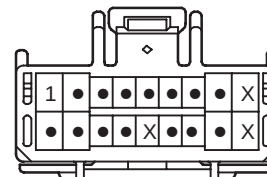
D10 GRAY



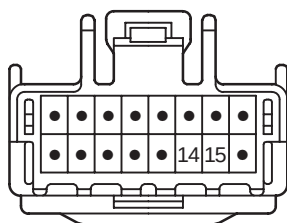
D11 GRAY



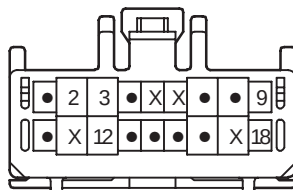
D18 (A) GRAY



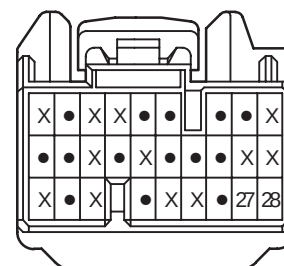
D19 (B) GRAY



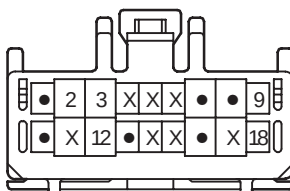
D20 (C) GRAY



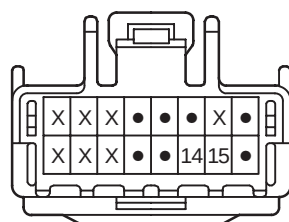
E5



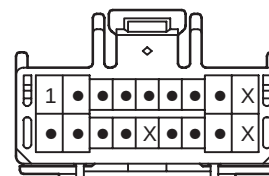
F11 (A) GRAY



F12 (B) GRAY

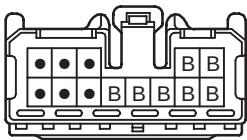


F13 (C) GRAY



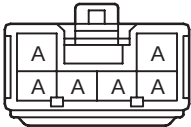
# LIGHT AUTO TURN OFF (LHD)

J7 GRAY



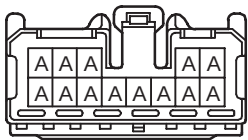
(Hint : See Page 7, 23, 39)

J8



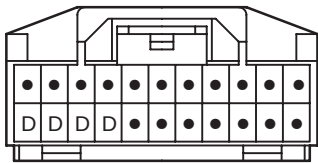
(Hint : See Page 7, 23, 39)

J10 ORANGE



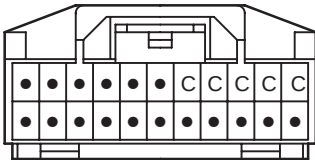
(Hint : See Page 7, 23, 39)

J13



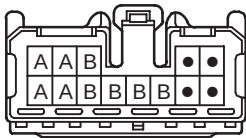
(Hint : See Page 7, 23, 39)

J15



(Hint : See Page 7, 23, 39)

J16



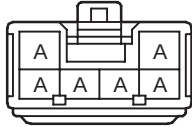
(Hint : See Page 7, 23, 39)

J18



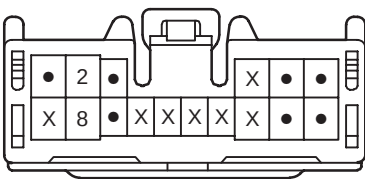
(Hint : See Page 7, 23, 39)

J22

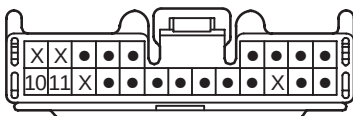


(Hint : See Page 7, 23, 39)

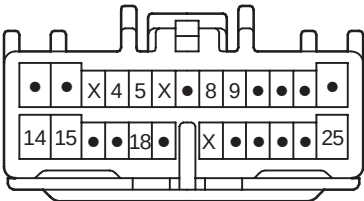
M2 BLUE



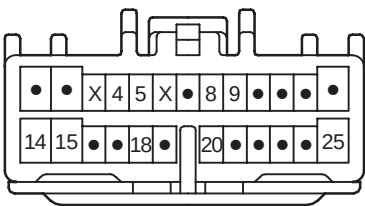
P19



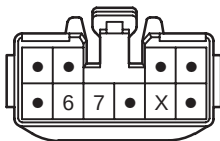
R13



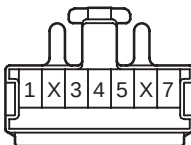
R14



T5 GRAY



W6



## SYSTEM OUTLINE

This system automatically turns off the taillights and/or headlights when the driver door is opened and closed to prevent the lights from remaining lit.

### LIGHT AUTO TURN OFF OPERATION

#### \* Taillights ON

If the ignition SW is turned from ON to OFF with the taillights turned on (The light control SW is set at TAIL), the signal is input to **TERMINAL IG** of the body ECU No.2. At this time, if the driver door is opened, the signal is input from the door courtesy SW front RH to **TERMINAL CTY** of the driver door ECU. After that, **TERMINAL TRLY** of the body ECU No.2 is controlled through communication control of the body ECU and door ECU etc. to turn off the tail relay. As a result, the current flowing into the taillights is cut off to turn off the taillights.

#### \* Taillights and headlights ON

If the ignition SW is turned from ON to OFF with the taillights and headlights turned on (The light control SW is set at HEAD), the signal is input to **TERMINAL IG** of the body ECU No.2. At this time, if any door is opened, the signal is input from the door courtesy SW to **TERMINAL CTY** of the door ECU. During this operation, the taillights and headlights are remained lit. When all doors and the luggage door are closed, the taillights and headlights are turned on for **30 sec.** through communication control of the body ECU and door ECU. After the set time has elapsed, a signal is input to **TERMINAL TRLY** and **HRLY** of the body ECU No.2, to turn off the tail relay and HEAD LP relay. As a result, the current flowing into the taillights and headlights is cut off to turn off the taillights and headlights.

If any door is opened during above operation, the taillights and headlights light up for **30 sec.** again, and then go off after all the doors have been closed.

Additionally, if the vehicle is locked using the wireless door lock operation while the taillights and headlights are being turned on for **30 sec.**, the taillights and headlights go off immediately.

## SERVICE HINTS

### C13 (A), (B) COMBINATION SW

(A) 15-(A) 16, (B) 15-(B) 9 : Closed with light control SW at **TAIL** or **HEAD** position

(A) 14-(A) 16, (B) 14-(B) 9 : Closed with light control SW at **HEAD** position

(A) 13-(A) 16, (B) 13-(B) 9 : Closed with light control SW at **AUTO** position

### W6 WIRELESS DOOR LOCK ECU

7-GROUND : Always approx. **12** volts

1-GROUND : Always continuity

### D8, D9, D10, D11 DOOR COURTESY SW FRONT LH, RH, REAR LH, RH

1-2 : Closed with door open

### D19 (B) DRIVER DOOR ECU

15-14 : Continuity with driver door open

### F12 (B) FRONT PASSENGER DOOR ECU

15-14 : Continuity with front passenger door open

### R13 REAR DOOR LH ECU

8-18 : Continuity with rear LH door open

### R14 REAR DOOR RH ECU

8-18 : Continuity with rear RH door open

# LIGHT AUTO TURN OFF (RHD)

## : PARTS LOCATION

| Code |   | See Page | Code |   | See Page | Code | See Page |
|------|---|----------|------|---|----------|------|----------|
| A16  |   | 86 (RHD) | D19  | B | 90 (RHD) | J41  | 88 (RHD) |
| B5   | A | 86 (RHD) | D20  | C | 90 (RHD) | J42  | 88 (RHD) |
| B6   | A | 86 (RHD) | E5   |   | 82 (RHD) | J45  | 90 (RHD) |
| C12  |   | 86 (RHD) | F11  | A | 90 (RHD) | M2   | 88 (RHD) |
| C13  | A | 86 (RHD) | F12  | B | 90 (RHD) | P19  | 94 (RHD) |
|      | B | 86 (RHD) | F13  | C | 90 (RHD) | R13  | 92 (RHD) |
| D8   |   | 90 (RHD) | J31  |   | 88 (RHD) | R14  | 92 (RHD) |
| D9   |   | 90 (RHD) | J32  |   | 88 (RHD) | T5   | 88 (RHD) |
| D10  |   | 90 (RHD) | J37  |   | 88 (RHD) | W6   | 92 (RHD) |
| D11  |   | 90 (RHD) | J38  |   | 88 (RHD) |      |          |
| D18  | A | 90 (RHD) | J40  |   | 88 (RHD) |      |          |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)            |
|------|----------|------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left) |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)         |
|------|----------|--------------------------------------------------------------|
| 1A   | 58 (RHD) | Engine Room Main Wire and Driver Side J/B (Right Kick Panel) |
| 1E   | 58 (RHD) | Floor No.1 Wire and Driver Side J/B (Right Kick Panel)       |
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1G   | 59 (RHD) |                                                              |
| 1H   |          |                                                              |
| 2B   | 60 (RHD) |                                                              |
| 2E   | 60 (RHD) | Floor No.2 Wire and Passenger Side J/B (Left Kick Panel)     |
| 2F   | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)           |
| 2G   | 61 (RHD) |                                                              |
| 2H   |          |                                                              |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|-----------|---------------------------------------------------------------------------|
| IA2  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)         |
| IB1  | 108 (RHD) | Front Door LH Wire and Cowl Wire (Left Kick Panel)                        |
| IC2  | 108 (RHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                           |
| IC3  |           |                                                                           |
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)       |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column)   |
| IL1  | 110 (RHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                       |
| IM1  | 110 (RHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                          |
| IM3  |           |                                                                           |
| BA1  | 112 (RHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)        |
| BB1  | 112 (RHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)        |
| BC1  | 114 (RHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Front Passenger's Seat) |
| BD1  | 114 (RHD) | Floor No.1 Wire and Front Seat RH Wire (Under the Driver's Seat)          |

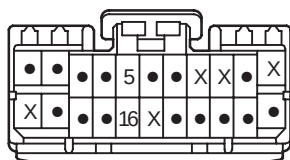




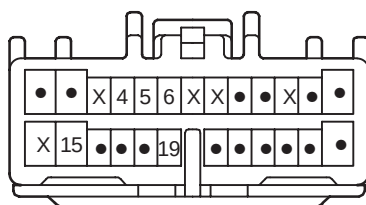
## : GROUND POINTS

| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| IF   | 108 (RHD) | Left Kick Panel               |
| IG   | 108 (RHD) | Behind the Combination Meter  |
| II   | 108 (RHD) | Cowl Side Panel RH            |
| BJ   | 112 (RHD) | Rear Floor Partition Panel LH |
| BL   | 112 (RHD) | Rear Floor Partition Panel RH |
| BM   | 112 (RHD) | Quarter Panel RH              |

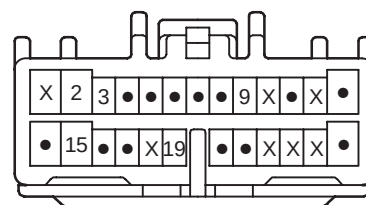
A16



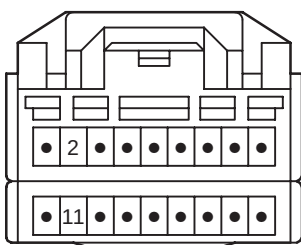
B5 (A)



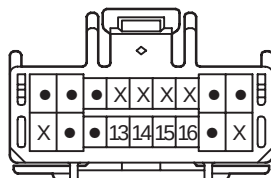
B6 (A)



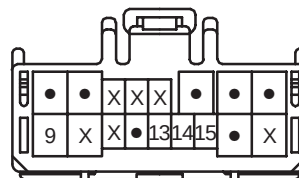
C12



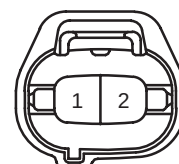
(Europe) C13 (A)



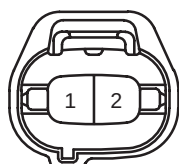
(Australia) C13 (B)



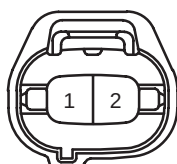
D8 GRAY



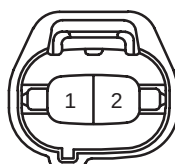
D9 GRAY



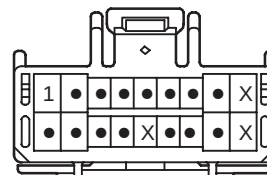
D10 GRAY



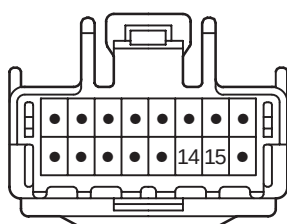
D11 GRAY



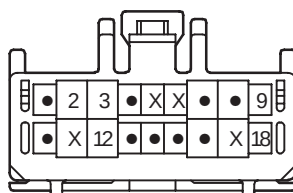
D18 (A) GRAY



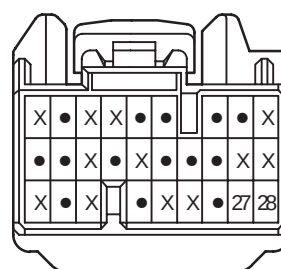
D19 (B) GRAY



D20 (C) GRAY

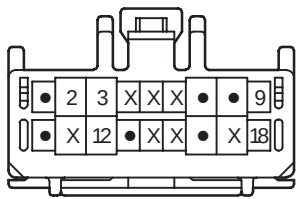


E5

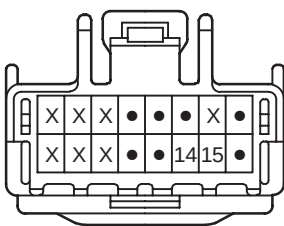


LIGHT AUTO TURN OFF (RHD)

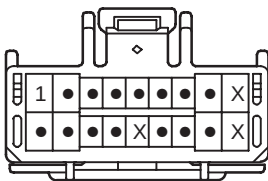
F11 (A) GRAY



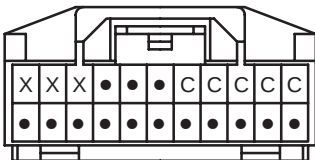
F12 (B) GRAY



F13 (C) GRAY

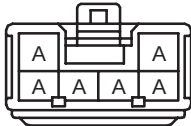


J31



(Hint : See Page 7, 23, 39)

J32



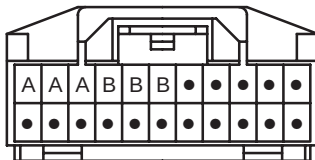
(Hint : See Page 7, 23, 39)

J37



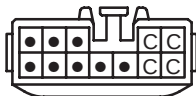
(Hint : See Page 7, 23, 39)

J38



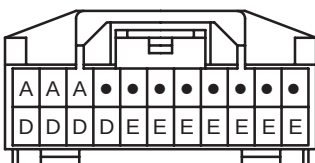
(Hint : See Page 7, 23, 39)

J40 GRAY



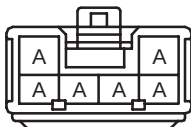
(Hint : See Page 7, 23, 39)

J41



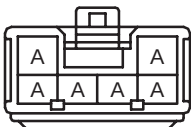
(Hint : See Page 7, 23, 39)

J42



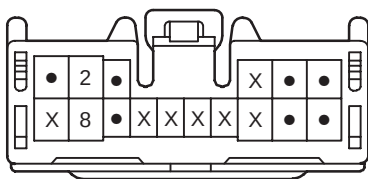
(Hint : See Page 7, 23, 39)

J45

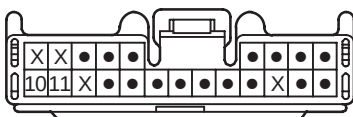


(Hint : See Page 7, 23, 39)

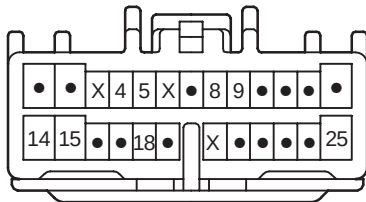
M2 BLUE



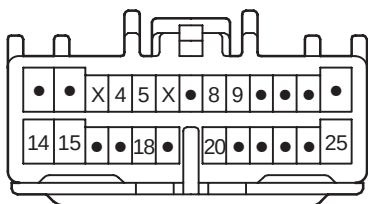
P19



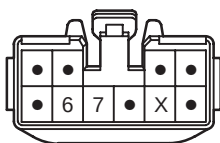
R13



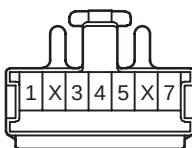
R14



T5 GRAY



W6



## SERVICE HINTS

### L1 LUGGAGE COMPARTMENT DOOR OPENER SW

1-2 : Closed with the luggage compartment door open

### B5 (A) BODY ECU NO.1

1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

4, 8-GROUND : Always approx. **12** volts

(A)15-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position

(A)17-GROUND : Continuity with luggage compartment door open

## ○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| B5   | A        | J10  | 74 (LHD) | L1   | 74 (LHD) |
| J7   | 74 (LHD) | J13  | 74 (LHD) | L5   | 78 (LHD) |
| J8   | 74 (LHD) | J16  | 74 (LHD) |      |          |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

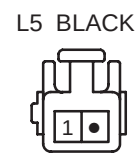
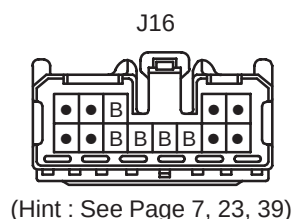
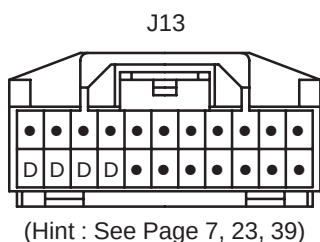
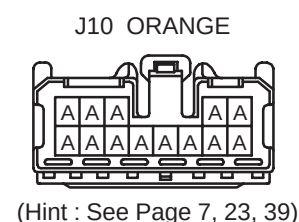
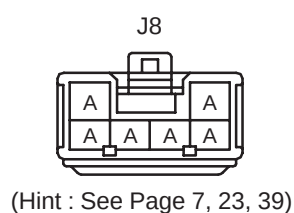
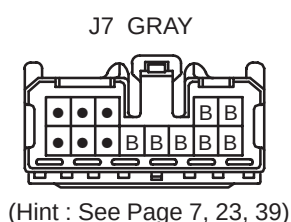
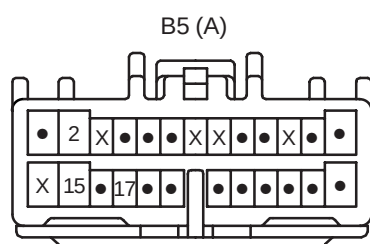
| Code | See Page | Junction Block and Wire Harness (Connector Location)            |
|------|----------|-----------------------------------------------------------------|
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
| 2B   | 60 (LHD) | Engine Room Main Wire and Passenger Side J/B (Right Kick Panel) |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)             |
| 2G   | 61 (LHD) |                                                                 |

## □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|------------------------------------------------------------|
| IC1  | 98 (LHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)            |

## ▽ : GROUND POINTS

| Code | See Page | Ground Points Location       |
|------|----------|------------------------------|
| IF   | 98 (LHD) | Left Kick Panel              |
| II   | 98 (LHD) | Right Side of the Cowl Panel |



## SERVICE HINTS

### L1 LUGGAGE COMPARTMENT DOOR OPENER SW

1-2 : Closed with the luggage compartment door open

### B5 (A) BODY ECU NO.1

1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

4, 8-GROUND : Always approx. **12** volts

(A)15-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position

(A)17-GROUND : Continuity with luggage compartment door open

## : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| B5 A | 86 (RHD) | J37  | 88 (RHD) | J42  | 88 (RHD) |
| J31  | 88 (RHD) | J38  | 88 (RHD) | L1   | 88 (RHD) |
| J32  | 88 (RHD) | J41  | 88 (RHD) | L5   | 90 (RHD) |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)            |
|------|----------|------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left) |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)           |
|------|----------|----------------------------------------------------------------|
| 1H   | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)               |
| 2B   | 60 (RHD) | Engine Room Main Wire and Passenger Side J/B (Left Kick Panel) |
| 2F   | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)             |
| 2G   | 61 (RHD) |                                                                |

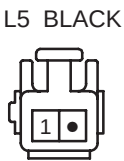
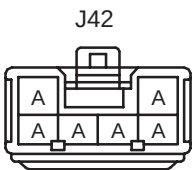
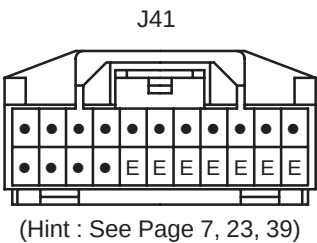
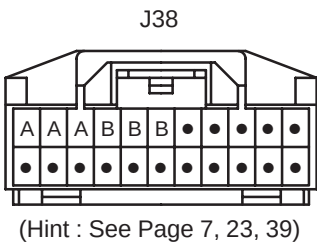
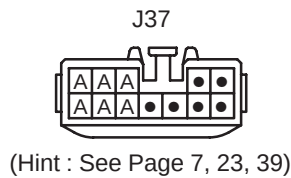
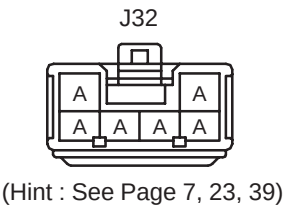
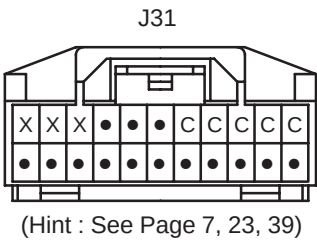
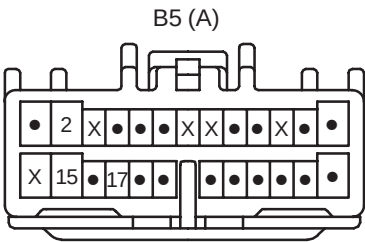
## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location) |
|------|-----------|------------------------------------------------------------|
| IC1  | 108 (RHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)            |

## : GROUND POINTS

| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| IF   | 108 (RHD) | Left Kick Panel              |
| IG   | 108 (RHD) | Behind the Combination Meter |
| II   | 108 (RHD) | Cowl Side Panel RH           |

LUGGAGE COMPARTMENT DOOR OPENER (RHD)



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**MULTIPLEX COMMUNICATION SYSTEM INCLUDES FOLLOWING SYSTEMS**

- \* **AUTOMATIC AIR CONDITIONER**
- \* **AUTOMATIC LIGHT CONTROL**
- \* **CHARGING**
- \* **COMBINATION METER**
- \* **CRUISE CONTROL**
- \* **ECT AND A/T INDICATOR**
- \* **ENGINE CONTROL**
- \* **HEADLIGHT**
- \* **INTERIOR LIGHT**
- \* **KEY REMINDER AND SEAT BELT WARNING**
- \* **LEXUS NAVIGATION SYSTEM**
- \* **LIGHT AUTO TURN OFF**
- \* **MOON ROOF**
- \* **POWER SEAT (DRIVER'S SEAT w/ DRIVING POSITION MEMORY)**
- \* **POWER TILT AND POWER TELESCOPIC**
- \* **POWER WINDOW**
- \* **REAR WINDOW DEFOGGER AND MIRROR HEATER**
- \* **REMOTE CONTROL MIRROR**
- \* **STOP LIGHT**
- \* **TAILLIGHT**
- \* **THEFT DETERRENT AND DOOR LOCK CONTROL**
- \* **VSC**
- \* **WIRELESS DOOR LOCK CONTROL**

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**MULTIPLEX COMMUNICATION SYSTEM INCLUDES FOLLOWING SYSTEMS**

- \* **AUTOMATIC AIR CONDITIONER**
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- \* **POWER WINDOW**
- \* **REAR WINDOW DEFOGGER AND MIRROR HEATER**
- \* **REMOTE CONTROL MIRROR**
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- \* **TAILLIGHT**
- \* **THEFT DETERRENT AND DOOR LOCK CONTROL**
- \* **VSC**
- \* **WIRELESS DOOR LOCK CONTROL**

# MULTIPLEX COMMUNICATION SYSTEM (LHD)

## SYSTEM OUTLINE

### MULTIPLEX COMMUNICATION SYSTEM

The system is comprised of the communication modes of the body ECU No.1, body ECU No.2, driver door ECU, front passenger door ECU, rear door LH ECU, rear door RH ECU, engine and ECT ECU, combination meter, A/C control assembly, navigation ECU, tilt and telescopic ECU, power seat ECU and moon roof control ECU. The body electrical systems are controlled by a serial communication in which each ECU is linked to another via a single communication line. This system is also equipped with a self-diagnosis function.

The table below shows the systems under the control of the MPX communication system and related ECUs (Communication nodes).

|                                       | Body ECU No.1 | Body ECU No.2 | Driver Door ECU | Front Passenger Door ECU | Rear Door LH ECU | Rear Door RH ECU | Engine and ECT ECU | Combination Meter | A/C Control Assembly | Navigation ECU | Tilt and Telescopic ECU | Power Seat ECU | Moon Roof Control ECU |
|---------------------------------------|---------------|---------------|-----------------|--------------------------|------------------|------------------|--------------------|-------------------|----------------------|----------------|-------------------------|----------------|-----------------------|
| Power Window                          | 2             | 2             | 1               | 2                        | 2                | 2                | —                  | —                 | —                    | —              | —                       | —              | 2                     |
| Theft Deterrent and Door Lock Control | 1             | 2             | 2               | 2                        | 2                | 2                | —                  | 2                 | —                    | —              | —                       | —              | —                     |
| Wireless Door Lock Control            | 1             | 2             | 2               | 2                        | 2                | 2                | —                  | —                 | —                    | —              | —                       | —              | 2                     |
| Light Auto Turn Off                   | —             | 1             | 2               | 2                        | 2                | 2                | —                  | —                 | —                    | —              | —                       | —              | —                     |
| Automatic Light Control               | —             | 1             | 2               | —                        | —                | —                | —                  | 1                 | —                    | —              | —                       | —              | —                     |
| Illuminated Entry                     | —             | 1             | 2               | 2                        | 2                | 2                | —                  | —                 | —                    | —              | —                       | —              | —                     |
| Key Reminder                          | —             | 1             | 2               | —                        | —                | —                | —                  | —                 | —                    | —              | —                       | —              | —                     |
| Luggage Compartment Door Opener       | 1             | —             | —               | —                        | —                | —                | —                  | —                 | —                    | —              | —                       | —              | —                     |
| Remote Control Mirror                 | 2             | 2             | 1               | 1                        | —                | —                | —                  | —                 | —                    | —              | —                       | —              | —                     |
| Shift Lock                            | —             | 1             | —               | —                        | —                | —                | 2                  | —                 | —                    | —              | —                       | —              | —                     |
| Fog Light                             | —             | 1             | —               | —                        | —                | —                | —                  | 2                 | —                    | —              | —                       | —              | —                     |
| Memory System                         | —             | —             | 2               | 2                        | —                | —                | —                  | —                 | —                    | —              | 2                       | 1              | —                     |
| Seat Belt Warning                     | 2             | 2             | —               | —                        | —                | —                | —                  | 1                 | —                    | —              | —                       | —              | —                     |

1 : Master control      2 : Sub control



## 1. COMMUNICATION OUTLINE

Communication is implemented among the body No.1, No.2, driver door, front passenger door, rear door LH, RH, combination meter, tilt and telescopic, navigation, A/C control assembly, moon roof, power seat, engine and ECT ECUs.

Upon receiving signals from applicable switches such as the door lock control switch or door courtesy light switch, each ECU determines the conditions of the switches as well as of the doors, and after converting this information into digital signals, outputs them to other ECUs via serial data communication. The ECU that receives these digital signals determines the conditions of the switches and doors so that it can implement various controls such as to activate a door lock motor.

However, if there are no changes in the input signals because no doors were opened and no switches were used within **30** seconds, the body ECU interrupts the communication to save electricity. Following this interruption, any changes in the input signals will cause the communication to resume.

For details please refer to the new car features and repair manuals.

## SERVICE HINTS

### BODY ECU NO.2

1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

8-GROUND : Always approx. **12** volts

11-GROUND : Always continuity

### B5 (A) BODY ECU NO.1

1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

4-GROUND : Always approx. **12** volts

8-GROUND : Always approx. **12** volts

11-GROUND : Always continuity

(A)15-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position

### D18 (A), D20 (C) DRIVER DOOR ECU

(C) 2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

(C) 3-GROUND : Always approx. **12** volts

(A) 1-GROUND : Always approx. **12** volts

(C)12-GROUND : Always continuity

### F11 (A), F13 (C) FRONT PASSENGER DOOR ECU

(A) 2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

(A) 3-GROUND : Always approx. **12** volts

(C) 1-GROUND : Always approx. **12** volts

(A)12-GROUND : Always continuity

### R13 REAR DOOR LH ECU

9-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

15-GROUND : Always approx. **12** volts

14-GROUND : Always approx. **12** volts

25-GROUND : Always continuity

### R14 REAR DOOR RH ECU

9-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

15-GROUND : Always approx. **12** volts

14-GROUND : Always approx. **12** volts

20-GROUND : Always continuity

25-GROUND : Always continuity

# MULTIPLEX COMMUNICATION SYSTEM (LHD)

## ○ : PARTS LOCATION

| Code |   | See Page |  | Code |   | See Page |  | Code |   | See Page |  |
|------|---|----------|--|------|---|----------|--|------|---|----------|--|
| A16  |   | 72 (LHD) |  | F12  | B | 76 (LHD) |  | P13  |   | 78 (LHD) |  |
| A33  |   | 72 (LHD) |  | F13  | C | 76 (LHD) |  | P16  |   | 80 (LHD) |  |
| B1   |   | 68 (LHD) |  | H20  |   | 72 (LHD) |  | P18  | A | 80 (LHD) |  |
| B5   | A | 72 (LHD) |  | I11  |   | 72 (LHD) |  | P19  | B | 80 (LHD) |  |
| B6   | A | 72 (LHD) |  | I14  |   | 78 (LHD) |  | P20  |   | 80 (LHD) |  |
| B7   |   | 80 (LHD) |  | I15  |   | 78 (LHD) |  | P21  |   | 80 (LHD) |  |
| B8   |   | 80 (LHD) |  | J7   |   | 74 (LHD) |  | P22  |   | 80 (LHD) |  |
| C10  |   | 72 (LHD) |  | J8   |   | 74 (LHD) |  | P23  |   | 80 (LHD) |  |
| C11  | A | 72 (LHD) |  | J9   |   | 74 (LHD) |  | P24  |   | 80 (LHD) |  |
| C12  | B | 72 (LHD) |  | J10  |   | 74 (LHD) |  | P30  |   | 80 (LHD) |  |
| C13  |   | 72 (LHD) |  | J13  |   | 74 (LHD) |  | P31  |   | 80 (LHD) |  |
| D1   |   | 72 (LHD) |  | J14  |   | 74 (LHD) |  | P32  |   | 80 (LHD) |  |
| D2   |   | 72 (LHD) |  | J15  |   | 74 (LHD) |  | P33  |   | 80 (LHD) |  |
| D3   |   | 76 (LHD) |  | J16  |   | 74 (LHD) |  | R5   |   | 74 (LHD) |  |
| D4   |   | 76 (LHD) |  | J18  |   | 74 (LHD) |  | R6   |   | 74 (LHD) |  |
| D5   |   | 76 (LHD) |  | J19  |   | 74 (LHD) |  | R7   |   | 74 (LHD) |  |
| D6   |   | 76 (LHD) |  | J21  |   | 78 (LHD) |  | R8   |   | 74 (LHD) |  |
| D7   |   | 76 (LHD) |  | J22  |   | 78 (LHD) |  | R13  |   | 78 (LHD) |  |
| D8   |   | 76 (LHD) |  | J23  |   | 80 (LHD) |  | R14  |   | 78 (LHD) |  |
| D9   |   | 76 (LHD) |  | J24  |   | 80 (LHD) |  | R17  |   | 78 (LHD) |  |
| D10  |   | 76 (LHD) |  | L1   |   | 74 (LHD) |  | R18  |   | 78 (LHD) |  |
| D11  |   | 76 (LHD) |  | L4   |   | 78 (LHD) |  | S5   |   | 74 (LHD) |  |
| D13  |   | 76 (LHD) |  | L5   |   | 78 (LHD) |  | S6   |   | 74 (LHD) |  |
| D14  |   | 76 (LHD) |  | L6   |   | 78 (LHD) |  | S7   |   | 74 (LHD) |  |
| D15  |   | 76 (LHD) |  | L7   |   | 78 (LHD) |  | S12  |   | 74 (LHD) |  |
| D16  |   | 76 (LHD) |  | L8   |   | 80 (LHD) |  | S17  |   | 80 (LHD) |  |
| D17  |   | 76 (LHD) |  | M2   |   | 74 (LHD) |  | T1   |   | 70 (LHD) |  |
| D18  | A | 76 (LHD) |  | M4   |   | 78 (LHD) |  | T5   |   | 74 (LHD) |  |
| D19  | B | 76 (LHD) |  | P3   |   | 74 (LHD) |  | U1   |   | 74 (LHD) |  |
| D20  | C | 76 (LHD) |  | P6   |   | 78 (LHD) |  | V6   |   | 78 (LHD) |  |
| D21  |   | 76 (LHD) |  | P8   |   | 78 (LHD) |  | V7   |   | 78 (LHD) |  |
| E5   |   | 68 (LHD) |  | P9   |   | 78 (LHD) |  | W5   |   | 70 (LHD) |  |
| E8   |   | 68 (LHD) |  | P10  |   | 78 (LHD) |  | W6   |   | 78 (LHD) |  |
| E11  |   | 72 (LHD) |  | P11  |   | 78 (LHD) |  |      |   |          |  |
| F11  | A | 76 (LHD) |  | P12  |   | 78 (LHD) |  |      |   |          |  |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
| 2    | 55 (LHD) | Engine Room No.2 R/B (Engine Compartment Left)  |
| 4    | 57 (LHD) | Passenger Side R/B (Right Kick Panel)           |

**: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR**

| Code | See Page | Junction Block and Wire Harness (Connector Location)            |
|------|----------|-----------------------------------------------------------------|
| 1A   | 58 (LHD) | Engine Room Main Wire and Driver Side J/B (Left Kick Panel)     |
| 1B   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
| 1D   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)     |
| 1E   | 58 (LHD) | Floor No.2 Wire and Driver Side J/B (Left Kick Panel)           |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
| 1G   | 59 (LHD) |                                                                 |
| 1H   |          |                                                                 |
| 2B   | 60 (LHD) | Engine Room Main Wire and Passenger Side J/B (Right Kick Panel) |
| 2D   | 60 (LHD) | Roof Wire and Passenger Side J/B (Right Kick Panel)             |
| 2E   | 60 (LHD) | Floor No.1 Wire and Passenger Side J/B (Right Kick Panel)       |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)             |
| 2G   | 61 (LHD) |                                                                 |
| 2H   |          |                                                                 |

**: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS**

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|-----------|---------------------------------------------------------------------------|
| IB1  | 98 (LHD)  | Front Door LH Wire and Cowl Wire (Left Kick Panel)                        |
| IC1  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                           |
| IC2  |           |                                                                           |
| IC3  |           |                                                                           |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column)    |
| IE2  |           |                                                                           |
| II1  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)         |
| II2  |           |                                                                           |
| II3  |           |                                                                           |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)        |
| IJ2  |           |                                                                           |
| IK1  | 100 (LHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                       |
| IL1  | 100 (LHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                          |
| IL3  |           |                                                                           |
| BA1  | 102 (LHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)        |
| BB1  | 102 (LHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)        |
| BC1  | 104 (LHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)          |
| BD1  | 104 (LHD) | Floor No.1 Wire and Front Seat RH Wire (Under the Front Passenger's Seat) |

**: GROUND POINTS**

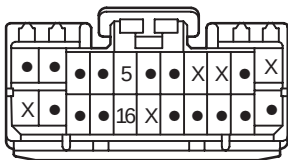
| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| EB   | 96 (LHD)  | Left Fender                   |
| IF   | 98 (LHD)  | Left Kick Panel               |
| II   | 98 (LHD)  | Right Side of the Cowl Panel  |
| BJ   | 102 (LHD) | Rear Floor Partition Panel LH |
| BK   | 102 (LHD) | Quarter Panel LH              |
| BL   | 102 (LHD) | Rear Floor Partition Panel RH |
| BM   | 102 (LHD) | Quarter Panel RH              |

**: SPLICE POINTS**

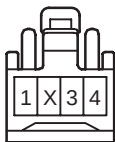
| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| I1   | 100 (LHD) | Cowl Wire                       | B2   | 102 (LHD) | Roof Wire                       |
| I6   |           |                                 | B7   | 104 (LHD) | Front Seat LH Wire              |

MULTIPLEX COMMUNICATION SYSTEM (LHD)

A16



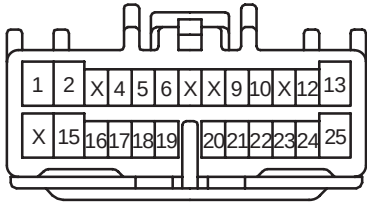
A33 BLACK



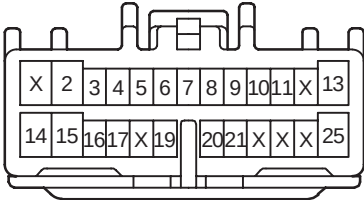
B1 GRAY



B5 (A)



B6 (A)



B7



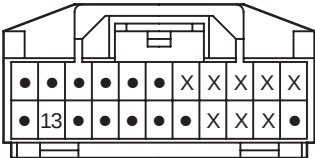
B8



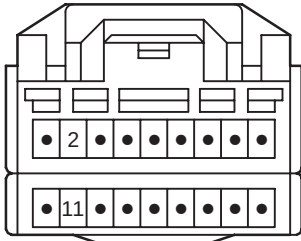
C10



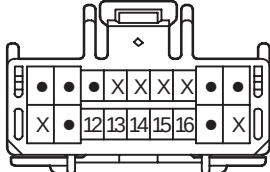
C11 (A)



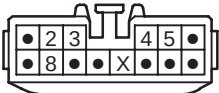
C12 (B)



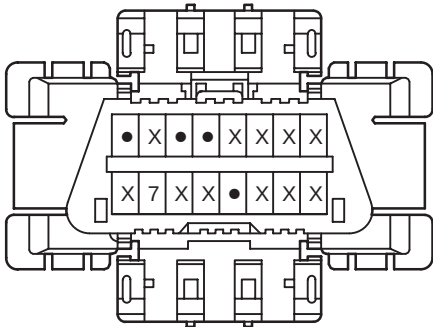
C13



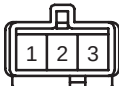
D1 BLUE



D2

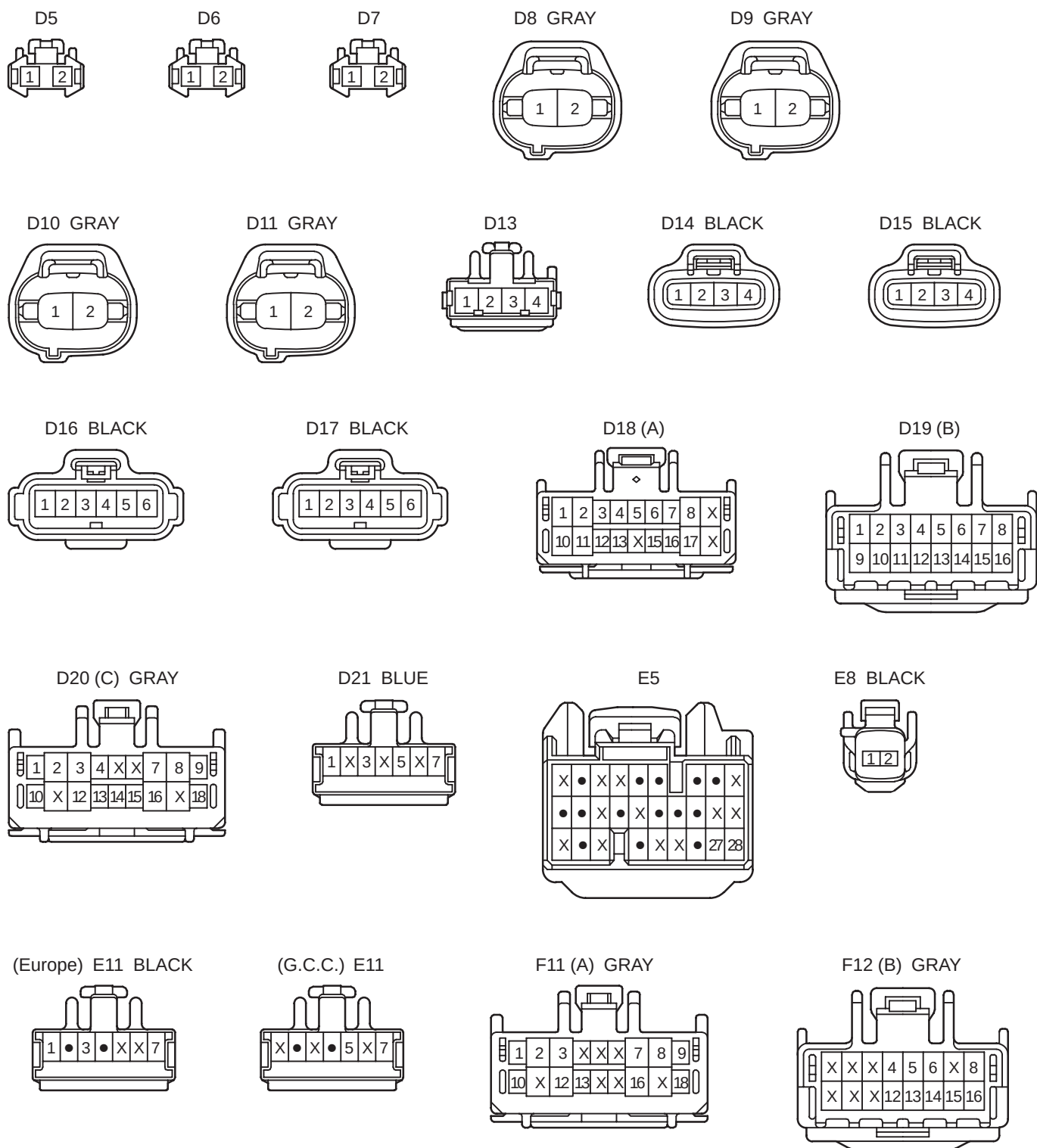


D3



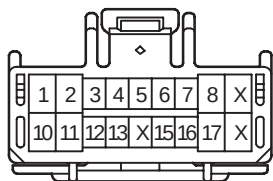
D4



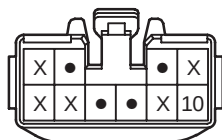


# MULTIPLEX COMMUNICATION SYSTEM (LHD)

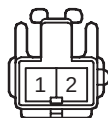
F13 (C) GRAY



H20 BLACK



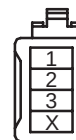
I11



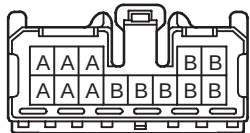
I14



I15

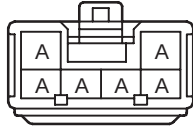


J7 GRAY



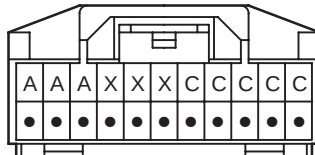
(Hint : See Page 7, 23, 39)

J8



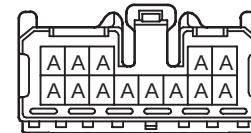
(Hint : See Page 7, 23, 39)

J9



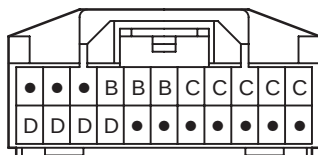
(Hint : See Page 7, 23, 39)

J10 ORANGE



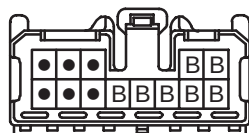
(Hint : See Page 7, 23, 39)

J13



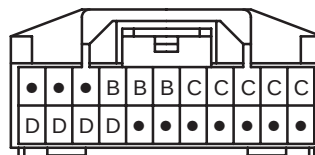
(Hint : See Page 7, 23, 39)

J14 GRAY



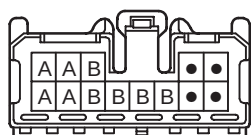
(Hint : See Page 7, 23, 39)

J15



(Hint : See Page 7, 23, 39)

J16



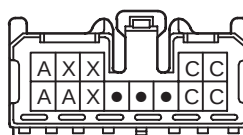
(Hint : See Page 7, 23, 39)

J18



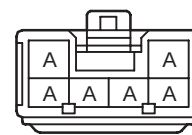
(Hint : See Page 7, 23, 39)

J19 BLUE



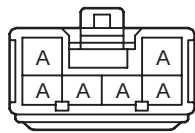
(Hint : See Page 7, 23, 39)

J21



(Hint : See Page 7, 23, 39)

J22



(Hint : See Page 7, 23, 39)

J23



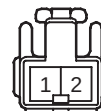
(Hint : See Page 7, 23, 39)

J24

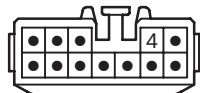


(Hint : See Page 7, 23, 39)

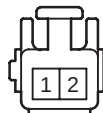
L1



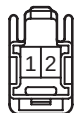
L4



L5 BLACK



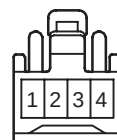
L6



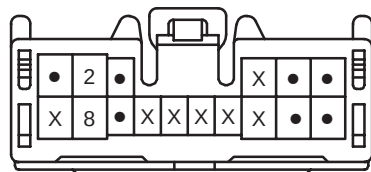
L7 GRAY



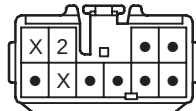
L8



M2 BLUE



M4



P3

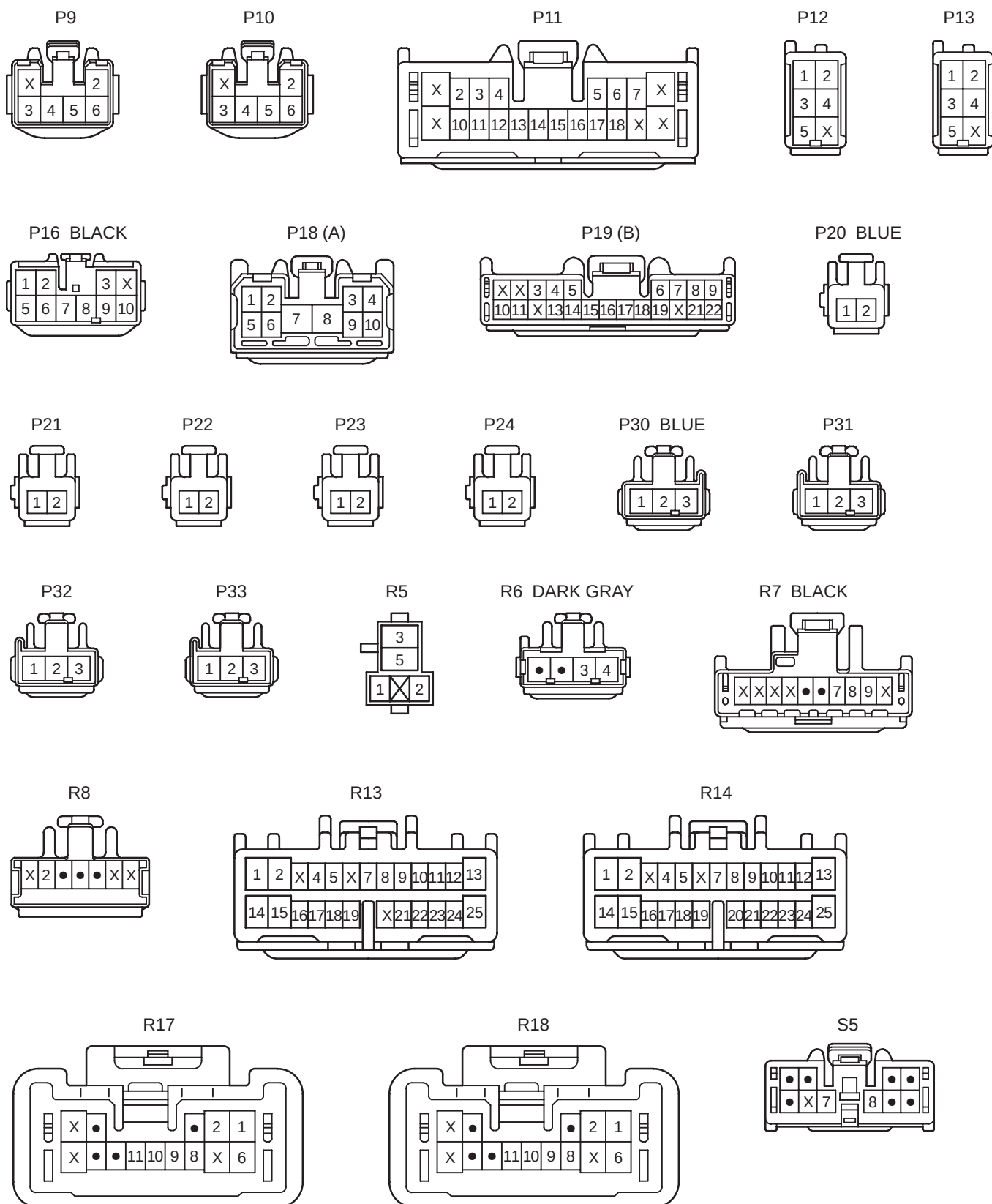


P6



P8





MULTIPLEX COMMUNICATION SYSTEM (LHD)

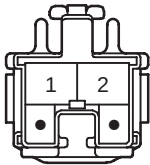
S6 BLACK



S7 BLACK



S12 BLUE



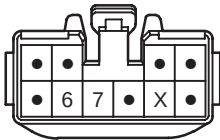
S17 GREEN



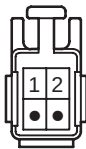
T1 BLACK



T5 GRAY



U1



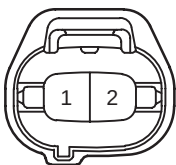
V6



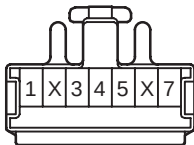
V7



W5 BLACK



W6





# MULTIPLEX COMMUNICATION SYSTEM (RHD)

## SYSTEM OUTLINE

### MULTIPLEX COMMUNICATION SYSTEM

The system is comprised of the communication modes of the body ECU No.1, body ECU No.2, driver door ECU, front passenger door ECU, rear door LH ECU, rear door RH ECU, engine and ECT ECU, combination meter, A/C control assembly, navigation ECU, tilt and telescopic ECU, power seat ECU and moon roof control ECU. The body electrical systems are controlled by a serial communication in which each ECU is linked to another via a single communication line. This system is also equipped with a self-diagnosis function.

The table below shows the systems under the control of the MPX communication system and related ECUs (Communication nodes).

|                                       | Body ECU No.1 | Body ECU No.2 | Driver Door ECU | Front Passenger Door ECU | Rear Door LH ECU | Rear Door RH ECU | Engine and ECT ECU | Combination Meter | A/C Control Assembly | Navigation ECU | Tilt and Telescopic ECU | Power Seat ECU | Moon Roof Control ECU |
|---------------------------------------|---------------|---------------|-----------------|--------------------------|------------------|------------------|--------------------|-------------------|----------------------|----------------|-------------------------|----------------|-----------------------|
| Power Window                          | 2             | 2             | 1               | 2                        | 2                | 2                | —                  | —                 | —                    | —              | —                       | —              | 2                     |
| Theft Deterrent and Door Lock Control | 1             | 2             | 2               | 2                        | 2                | 2                | —                  | 2                 | —                    | —              | —                       | —              | —                     |
| Wireless Door Lock Control            | 1             | 2             | 2               | 2                        | 2                | 2                | —                  | —                 | —                    | —              | —                       | —              | 2                     |
| Light Auto Turn Off                   | —             | 1             | 2               | 2                        | 2                | 2                | —                  | —                 | —                    | —              | —                       | —              | —                     |
| Automatic Light Control               | —             | 1             | 2               | —                        | —                | —                | —                  | 1                 | —                    | —              | —                       | —              | —                     |
| Illuminated Entry                     | —             | 1             | 2               | 2                        | 2                | 2                | —                  | —                 | —                    | —              | —                       | —              | —                     |
| Key Reminder                          | —             | 1             | 2               | —                        | —                | —                | —                  | —                 | —                    | —              | —                       | —              | —                     |
| Luggage Compartment Door Opener       | 1             | —             | —               | —                        | —                | —                | —                  | —                 | —                    | —              | —                       | —              | —                     |
| Remote Control Mirror                 | 2             | 2             | 1               | 1                        | —                | —                | —                  | —                 | —                    | —              | —                       | —              | —                     |
| Shift Lock                            | —             | 1             | —               | —                        | —                | —                | 2                  | —                 | —                    | —              | —                       | —              | —                     |
| Fog Light                             | —             | 1             | —               | —                        | —                | —                | —                  | 2                 | —                    | —              | —                       | —              | —                     |
| Memory System                         | —             | —             | 2               | 2                        | —                | —                | —                  | —                 | —                    | —              | 2                       | 1              | —                     |
| Seat Belt Warning                     | 2             | 2             | —               | —                        | —                | —                | —                  | 1                 | —                    | —              | —                       | —              | —                     |

1 : Master control      2 : Sub control

## 1. COMMUNICATION OUTLINE

Communication is implemented among the body No.1, No.2, driver door, front passenger door, rear door LH, RH, combination meter, tilt and telescopic, navigation, A/C control assembly, moon roof, power seat, engine and ECT ECUs.

Upon receiving signals from applicable switches such as the door lock control switch or door courtesy light switch, each ECU determines the conditions of the switches as well as of the doors, and after converting this information into digital signals, outputs them to other ECUs via serial data communication. The ECU that receives these digital signals determines the conditions of the switches and doors so that it can implement various controls such as to activate a door lock motor.

However, if there are no changes in the input signals because no doors were opened and no switches were used within **30** seconds, the body ECU interrupts the communication to save electricity. Following this interruption, any changes in the input signals will cause the communication to resume.

For details please refer to the new car features and repair manuals.

## SERVICE HINTS

### BODY ECU NO.2

1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

8-GROUND : Always approx. **12** volts

11-GROUND : Always continuity

### B5 (A) BODY ECU NO.1

1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

4-GROUND : Always approx. **12** volts

8-GROUND : Always approx. **12** volts

11-GROUND : Always continuity

(A)15-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position

### D18 (A), D20 (C) DRIVER DOOR ECU

(C) 2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

(C) 3-GROUND : Always approx. **12** volts

(A) 1-GROUND : Always approx. **12** volts

(C)12-GROUND : Always continuity

### F11 (A), F13 (C) FRONT PASSENGER DOOR ECU

(A) 2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

(A) 3-GROUND : Always approx. **12** volts

(C) 1-GROUND : Always approx. **12** volts

(A)12-GROUND : Always continuity

### R13 REAR DOOR LH ECU

9-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

15-GROUND : Always approx. **12** volts

14-GROUND : Always approx. **12** volts

25-GROUND : Always continuity

### R14 REAR DOOR RH ECU

9-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

15-GROUND : Always approx. **12** volts

14-GROUND : Always approx. **12** volts

20-GROUND : Always continuity

25-GROUND : Always continuity

# MULTIPLEX COMMUNICATION SYSTEM (RHD)

## ○ : PARTS LOCATION

| Code |   | See Page | Code |   | See Page | Code |   | See Page |
|------|---|----------|------|---|----------|------|---|----------|
| A16  |   | 86 (RHD) | F11  | A | 90 (RHD) | P12  |   | 92 (RHD) |
| A33  |   | 86 (RHD) | F12  | B | 90 (RHD) | P13  |   | 92 (RHD) |
| B1   |   | 82 (RHD) | F13  | C | 90 (RHD) | P16  |   | 94 (RHD) |
| B5   | A | 86 (RHD) | H20  |   | 86 (RHD) | P18  | A | 94 (RHD) |
| B6   | A | 86 (RHD) | I11  |   | 86 (RHD) | P19  | B | 94 (RHD) |
| B7   |   | 94 (RHD) | I14  |   | 90 (RHD) | P20  |   | 94 (RHD) |
| B8   |   | 94 (RHD) | I15  |   | 90 (RHD) | P21  |   | 94 (RHD) |
| C10  |   | 86 (RHD) | J29  |   | 84 (RHD) | P22  |   | 94 (RHD) |
| C11  | A | 86 (RHD) | J31  |   | 88 (RHD) | P23  |   | 94 (RHD) |
| C12  | B | 86 (RHD) | J32  |   | 88 (RHD) | P24  |   | 94 (RHD) |
| C13  | A | 86 (RHD) | J37  |   | 88 (RHD) | P30  |   | 94 (RHD) |
|      | B | 86 (RHD) | J38  |   | 88 (RHD) | P31  |   | 94 (RHD) |
| D2   |   | 86 (RHD) | J39  |   | 88 (RHD) | P32  |   | 94 (RHD) |
| D3   |   | 90 (RHD) | J40  |   | 88 (RHD) | P33  |   | 94 (RHD) |
| D4   |   | 90 (RHD) | J41  |   | 88 (RHD) | R6   |   | 88 (RHD) |
| D5   |   | 90 (RHD) | J42  |   | 88 (RHD) | R7   |   | 88 (RHD) |
| D6   |   | 90 (RHD) | J44  |   | 90 (RHD) | R8   |   | 88 (RHD) |
| D7   |   | 90 (RHD) | J45  |   | 90 (RHD) | R13  |   | 92 (RHD) |
| D8   |   | 90 (RHD) | J46  |   | 94 (RHD) | R14  |   | 92 (RHD) |
| D9   |   | 90 (RHD) | J47  |   | 94 (RHD) | R17  |   | 92 (RHD) |
| D10  |   | 90 (RHD) | L1   |   | 88 (RHD) | R18  |   | 92 (RHD) |
| D11  |   | 90 (RHD) | L4   |   | 90 (RHD) | S5   |   | 88 (RHD) |
| D12  |   | 90 (RHD) | L5   |   | 90 (RHD) | S6   |   | 88 (RHD) |
| D14  |   | 90 (RHD) | L6   |   | 90 (RHD) | S7   |   | 88 (RHD) |
| D15  |   | 90 (RHD) | L7   |   | 90 (RHD) | S12  |   | 88 (RHD) |
| D16  |   | 90 (RHD) | L8   |   | 94 (RHD) | S17  |   | 94 (RHD) |
| D17  |   | 90 (RHD) | M2   |   | 88 (RHD) | T1   |   | 84 (RHD) |
| D18  | A | 90 (RHD) | M4   |   | 92 (RHD) | T5   |   | 88 (RHD) |
| D19  | B | 90 (RHD) | P3   |   | 88 (RHD) | U1   |   | 88 (RHD) |
| D20  | C | 90 (RHD) | P6   |   | 92 (RHD) | V6   |   | 92 (RHD) |
| D21  |   | 90 (RHD) | P7   |   | 92 (RHD) | V7   |   | 92 (RHD) |
| E5   |   | 82 (RHD) | P9   |   | 92 (RHD) | W5   |   | 84 (RHD) |
| E8   |   | 82 (RHD) | P10  |   | 92 (RHD) | W6   |   | 92 (RHD) |
| E11  |   | 86 (RHD) | P11  |   | 92 (RHD) |      |   |          |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |
| 2    | 55 (RHD) | Engine Room No.2 R/B (Engine Compartment Right) |
| 4    | 57 (RHD) | Passenger Side R/B (Left Kick Panel)            |
| 5    | 57 (RHD) | Driver Side R/B (Right Kick Panel)              |

**: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR**

| Code | See Page | Junction Block and Wire Harness (Connector Location)           |
|------|----------|----------------------------------------------------------------|
| 1A   | 58 (RHD) | Engine Room Main Wire and Driver Side J/B (Right Kick Panel)   |
| 1B   |          |                                                                |
| 1D   | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel)   |
| 1E   | 58 (RHD) | Floor No.1 Wire and Driver Side J/B (Right Kick Panel)         |
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)               |
| 1G   | 59 (RHD) |                                                                |
| 1H   |          |                                                                |
| 2B   | 60 (RHD) | Engine Room Main Wire and Passenger Side J/B (Left Kick Panel) |
| 2D   | 60 (RHD) | Roof Wire and Passenger Side J/B (Left Kick Panel)             |
| 2E   | 60 (RHD) | Floor No.2 Wire and Passenger Side J/B (Left Kick Panel)       |
| 2F   | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)             |
| 2G   | 61 (RHD) |                                                                |
| 2H   |          |                                                                |

**: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS**

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|-----------|---------------------------------------------------------------------------|
| IA2  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)         |
| IA3  |           |                                                                           |
| IB1  | 108 (RHD) | Front Door LH Wire and Cowl Wire (Left Kick Panel)                        |
| IC1  | 108 (RHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                           |
| IC2  |           |                                                                           |
| IC3  |           |                                                                           |
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)       |
| ID3  |           |                                                                           |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column)   |
| IJ2  |           |                                                                           |
| IK3  | 110 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)            |
| IL1  | 110 (RHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                       |
| IM1  | 110 (RHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                          |
| IM3  |           |                                                                           |
| BA1  | 112 (RHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)        |
| BB1  | 112 (RHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)        |
| BC1  | 114 (RHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Front Passenger's Seat) |
| BD1  | 114 (RHD) | Floor No.1 Wire and Front Seat RH Wire (Under the Driver's Seat)          |

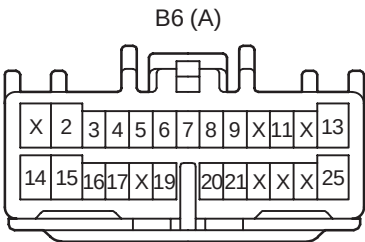
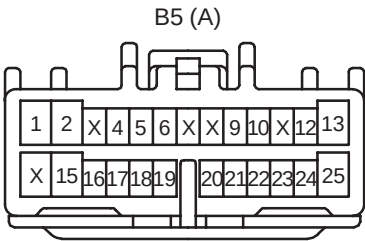
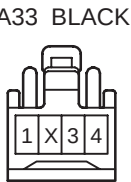
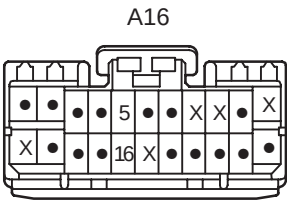
**: GROUND POINTS**

| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EB   | 106 (RHD) | Left Fender                        |
| EE   | 106 (RHD) | Under the ABS & TRC & VSC Actuator |
| IF   | 108 (RHD) | Left Kick Panel                    |
| IG   | 108 (RHD) | Behind the Combination Meter       |
| II   | 108 (RHD) | Cowl Side Panel RH                 |
| BJ   | 112 (RHD) | Rear Floor Partition Panel LH      |
|      | 112 (RHD) |                                    |
| BK   | 112 (RHD) | Quarter Panel LH                   |
| BL   | 112 (RHD) | Rear Floor Partition Panel RH      |
| BM   | 112 (RHD) | Quarter Panel RH                   |

MULTIPLEX COMMUNICATION SYSTEM (RHD)

 : SPLICE POINTS

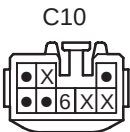
| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| I1   | 110 (RHD) | Cowl Wire                       | I11  | 110 (RHD) | Floor No.1 Wire                 |
| I7   |           |                                 | B1   | 112 (RHD) | Roof Wire                       |
| I8   |           |                                 | B7   | 114 (RHD) | Front Seat RH Wire              |



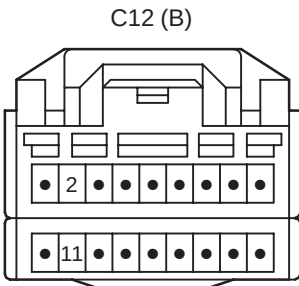
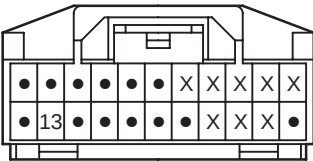
(w/ Driving Position Memory) B8 BLUE



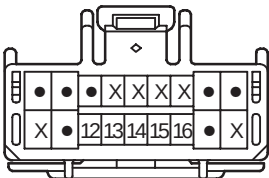
(w/o Driving Position Memory) B8



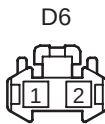
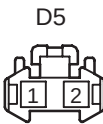
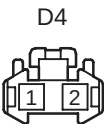
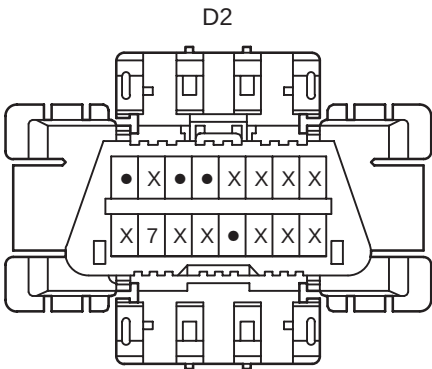
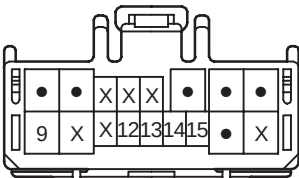
C11 (A)

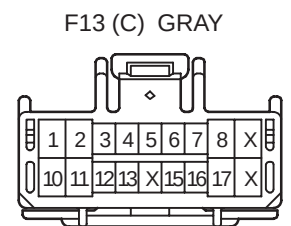
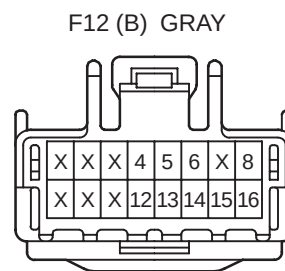
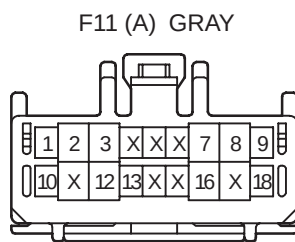
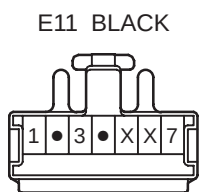
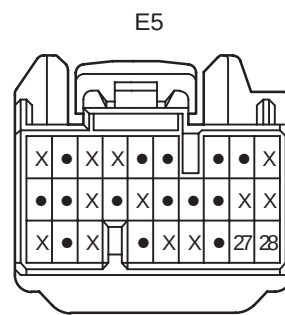
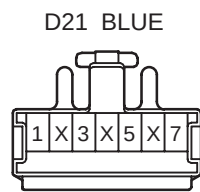
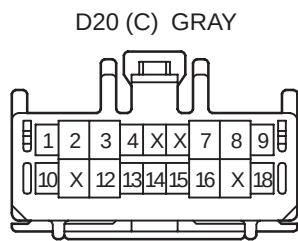
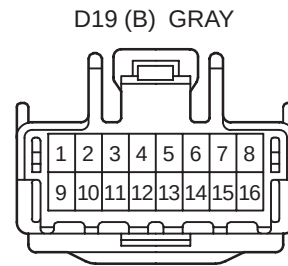
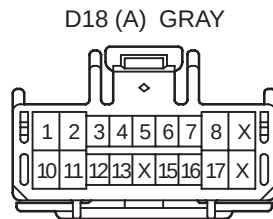
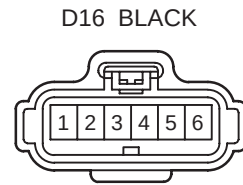
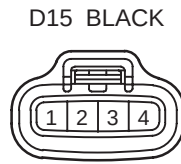
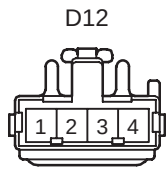
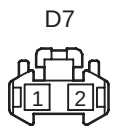


(Europe) C13 (A)



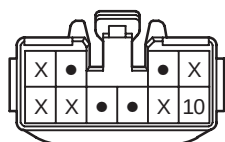
(Australia) C13 (B)





# MULTIPLEX COMMUNICATION SYSTEM (RHD)

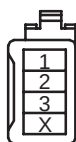
H20 BLACK



I11



I14



I15

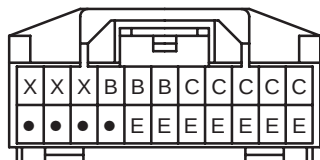


J29 BLUE



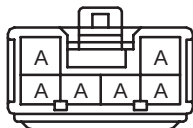
(Hint : See Page 7, 23, 39)

J31



(Hint : See Page 7, 23, 39)

J32



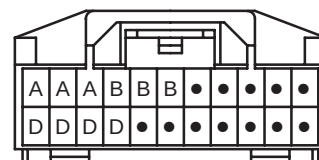
(Hint : See Page 7, 23, 39)

J37



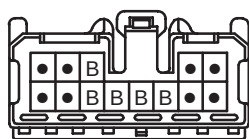
(Hint : See Page 7, 23, 39)

J38



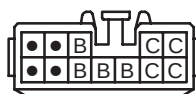
(Hint : See Page 7, 23, 39)

J39



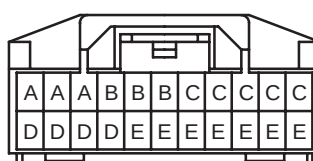
(Hint : See Page 7, 23, 39)

J40 GRAY



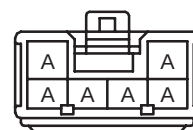
(Hint : See Page 7, 23, 39)

J41



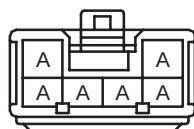
(Hint : See Page 7, 23, 39)

J42



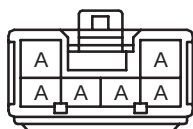
(Hint : See Page 7, 23, 39)

J44



(Hint : See Page 7, 23, 39)

J45



(Hint : See Page 7, 23, 39)

J46



(Hint : See Page 7, 23, 39)

J47

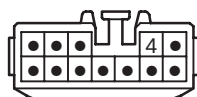


(Hint : See Page 7, 23, 39)

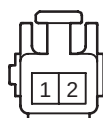
L1



L4



L5 BLACK



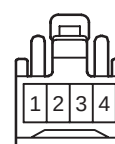
L6



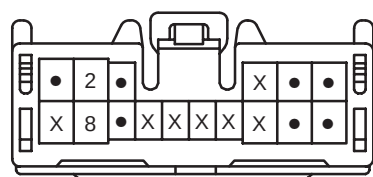
L7 GRAY



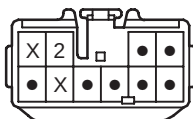
L8



M2 BLUE



M4



P3

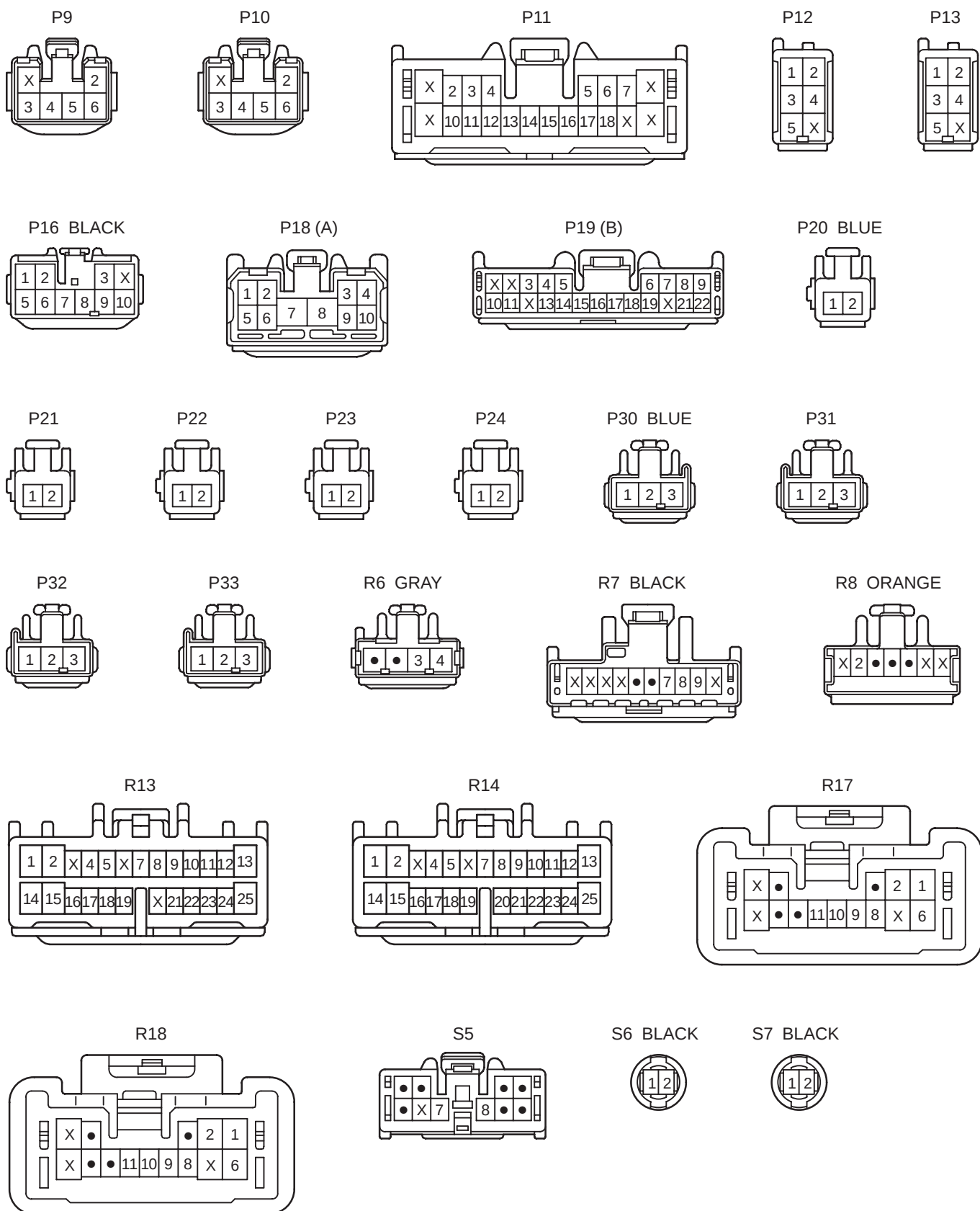


P6



P7

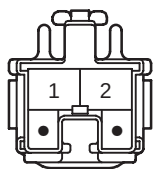






MULTIPLEX COMMUNICATION SYSTEM (RHD)

S12 BLUE



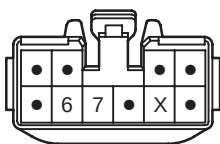
S17 GREEN



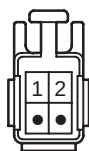
T1 BLACK



T5 GRAY



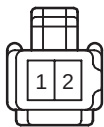
U1



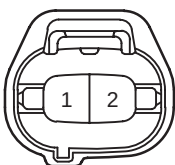
V6



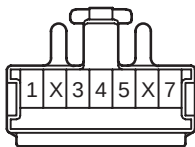
V7



W5 BLACK



W6



## SYSTEM OUTLINE

In this system, the HALL IC in the moon roof control ECU detects changes in the motor rotation to allow opening/closing and tilting up/down of the moon roof using one touch operation. Additionally, catching prevention mechanism during moon roof operation is also provided.

Voltage is always applied from the **S-ROOF** fuse to **TERMINAL 5** of the moon roof control ECU. When the ignition SW is turned to ON, the voltage is applied from the **EUG-IG** fuse to **TERMINAL 8** of the moon roof control ECU.

### 1. SLIDE OPEN OPERATION

When the moon roof control SW is kept pressed to **OPEN** position for approximately **0.3** sec. or longer (The limit SW No.1 is off and limit SW No.2 is on), the signal is input from **TERMINAL 1** of the moon roof control SW to **TERMINAL 9** of the moon roof control ECU. This activates the ECU and rotates the motor to open the moon roof. After that, when the limit SW No. 1 is turned on, and then turned off again, the pulse signal sent from the HALL IC activates the ECU, and it determines that the moon roof is fully opened, and stops the motor rotation. If other operation SW or open SW is operated while the moon roof is being opened, the ECU is activated to stop the moon roof operation. Additionally, when the moon roof is tilted up, the slide open operation does not function.

### 2. SLIDE CLOSE OPERATION

When the moon roof control SW is kept pressed to **CLOSE** position for approximately **0.3** sec. or longer (The limit SW No.1 is off and limit SW No.2 is off), the signal is input from **TERMINAL 4** of the moon roof control SW to **TERMINAL 10** of the moon roof control ECU. This activates the ECU and rotates the motor to automatically close the moon roof. After that, when the limit SW No.2 is turned on, the pulse signal sent from the HALL IC activates the ECU, and it determines that the moon roof is fully closed, and stops the motor rotation. If other operation SW or close SW is operated while the moon roof is being closed, the ECU is activated to stop the moon roof operation.

### 3. TILT UP OPERATION

When the moon roof control SW is kept pressed to **TILT UP** position for approximately **0.3** sec. or longer (The limit SW No.1 is off and limit SW No.2 is on), the signal is input from **TERMINAL 3** of the moon roof control SW to **TERMINAL 4** of the moon roof control ECU. This activates the ECU and rotates the motor to automatically tilt up the moon roof. If the pulse signal sent from the HALL IC is not input for **0.5** sec. or longer when the moon roof is fully tilted up, the ECU determines that the motor has stopped, and stops the current flowing into the motor.

If other operation SW or tilt up SW is operated while the moon roof is being tilted up, the ECU is activated to stop the moon roof operation. Additionally, when the moon roof is open, the tilt up operation does not function.

### 4. TILT DOWN OPERATION

When the moon roof control SW is kept pressed to **TILT DOWN** position for approximately **0.3** sec. or longer (The limit SW No.1 is on and limit SW No.2 is on), the signal is input from **TERMINAL 2** of the moon roof control SW to **TERMINAL 3** of the moon roof control ECU. This activates the ECU and rotates the motor to automatically tilt down the moon roof. When the limit SW No.1 is turned off, the pulse signal sent from the HALL IC activates the ECU, and it determines that the moon roof is fully closed, and stops the motor rotation.

If other operation SW or tilt down SW is operated while the moon roof is being tilted down, the ECU is activated to stop the moon roof operation.

### 5. CATCHING PREVENTION FUNCTION

If the moon roof control ECU detects a catching load from changes in the motor rotation during slide close or tilt down operation, the operation is stopped, and then the motor is rotated in the reverse direction.

Slide close operation

The moon roof is moved approximately **200** mm in the reverse direction (Slide open) after a catching load has been detected. However, if the full open position is detected before moving approximately **200** mm completely, the reverse movement is stopped.

Tilt down operation

If a catching load is detected during tilt down operation, the moon roof is fully tilted up.

## 6. KEY OFF MOON ROOF OPERATION

The moon roof can be operated for approximately **45** seconds, when the ignition SW is turned from ON to OFF with all doors closed. However, when the driver side door or front passenger side door is opened during this time, the operation is canceled.

## 7. MOON ROOF OPERATION LINKED WITH TRANSMITTER

When the unlock SW on the transmitter of the ignition key is kept pressed for **1.5** sec. or longer, the slide open operation of the moon roof functions through communication control of the body ECU and door ECU etc.

## 8. MOON ROOF OPERATION LINKED WITH DOOR KEY LOCK AND UNLOCK SW

When the ignition key is inserted into the driver door key cylinder and kept turned to the lock or unlock position for approximately **1.5** sec. or longer, the slide open or close operation of the moon roof functions through communication control of the body ECU and door ECU etc.

## 9. FAIL SAFE FUNCTION

If the moon roof is operated continuously in the same operating direction, the current flowing into the motor is cut off when the time shown below has elapsed after the motor operation has been started.

Slide open/close operation with the moon roof control SW Approximately **20** sec.

Tilt up/down operation with the moon roof control SW Approximately **2** sec.

Slide open operation for reverse movement in case of activation of the catching prevention function Approximately **20** sec.

Tilt open operation for reverse movement in case of activation of the catching prevention function Approximately **2** sec.

## SERVICE HINTS

### M4 MOON ROOF CONTROL ECU

5-GROUND : Always approx. **12** volts

8-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

7-GROUND : Always continuity

### M5 MOON ROOF CONTROL SW

3-5 : Closed with moon roof control SW at **TILT UP** position

2-5 : Closed with moon roof control SW at **TILT DOWN** position

1-5 : Closed with moon roof control SW at **OPEN** position

4-5 : Closed with moon roof control SW at **CLOSE** position

5-GROUND : Always continuity

## : PARTS LOCATION

| Code | See Page   | Code | See Page   | Code | See Page |
|------|------------|------|------------|------|----------|
| J7   | A 74 (LHD) | J32  | 88 (RHD)   | M4   | 92 (RHD) |
| J8   | 74 (LHD)   | J37  | 88 (RHD)   | M5   | 78 (LHD) |
| J10  | 74 (LHD)   | J41  | B 88 (RHD) |      | 92 (RHD) |
| J16  | A 74 (LHD) | J42  | 88 (RHD)   |      |          |
| J31  | B 88 (RHD) | M4   | 78 (LHD)   |      |          |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|------------------------------------------------------|
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)      |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)     |
| 2D   | 60 (LHD) | Roof Wire and Passenger Side J/B (Right Kick Panel)  |
|      | 60 (RHD) | Roof Wire and Passenger Side J/B (Left Kick Panel)   |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)  |
|      | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)   |
| 2G   | 61 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)  |
|      | 61 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)   |

MOON ROOF

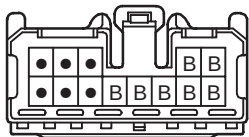
▽ : GROUND POINTS

| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| IF   | 98 (LHD)  | Left Kick Panel              |
|      | 108 (RHD) |                              |
| II   | 98 (LHD)  | Right Side of the Cowl Panel |
|      | 108 (RHD) | Cowl Side Panel RH           |

○ : SPLICE POINTS

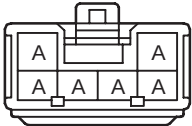
| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| B2   | 102 (LHD) | Roof Wire                       | B2   | 112 (RHD) | Roof Wire                       |

J7 (A) GRAY



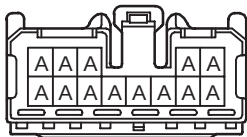
(Hint : See Page 7, 23, 39)

J8



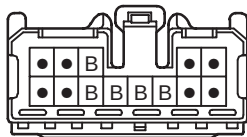
(Hint : See Page 7, 23, 39)

J10 ORANGE



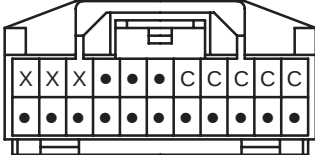
(Hint : See Page 7, 23, 39)

J16 (A)



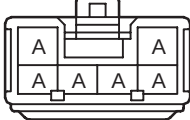
(Hint : See Page 7, 23, 39)

J31 (B)



(Hint : See Page 7, 23, 39)

J32



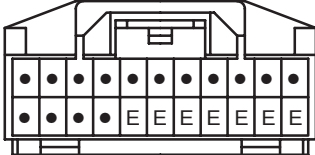
(Hint : See Page 7, 23, 39)

J37



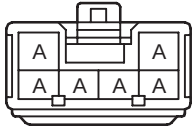
(Hint : See Page 7, 23, 39)

J41 (B)



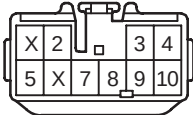
(Hint : See Page 7, 23, 39)

J42

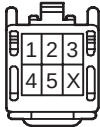


(Hint : See Page 7, 23, 39)

M4



M5



# LEXUS NAVIGATION SYSTEM

## SYSTEM OUTLINE

The LEXUS navigation system displays the operating status and instructions for the automatic air conditioner or radio and player, as well as trip information. Additionally, the navigation system precisely measures the current vehicle position, displays the map obtained from the map database on the screen, and informs the route to the destination shown on the map using voice guidance.

## SERVICE HINTS

### N3 (A) NAVIGATION ECU

- (A) 5-GROUND : Always approx. **12** volts
- (A)13-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position
- (A) 8-GROUND : Always continuity

### M2 (A) MULTI-DISPLAY

- (A) 6-GROUND : Always approx. **12** volts
- (A)16-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position
- (A) 1-GROUND : Always continuity

## ○ : PARTS LOCATION

| Code |   | See Page |  | Code |   | See Page |  | Code     |   | See Page |  |
|------|---|----------|--|------|---|----------|--|----------|---|----------|--|
| A16  |   | 68 (LHD) |  | J22  |   | 78 (LHD) |  | N3       | A | 92 (RHD) |  |
|      |   | 82 (RHD) |  | J32  |   | 88 (RHD) |  | N4       | B | 78 (LHD) |  |
| C11  | A | 72 (LHD) |  | J36  | B | 88 (RHD) |  |          |   | R4       |  |
|      |   | 86 (RHD) |  | J37  |   | 88 (RHD) |  | 74 (LHD) |   |          |  |
| C12  | B | 72 (LHD) |  | J42  |   | 88 (RHD) |  | 88 (RHD) |   |          |  |
|      |   | 86 (RHD) |  | J45  |   | 90 (RHD) |  | 74 (LHD) |   |          |  |
| F9   |   | 76 (LHD) |  | M2   | A | 74 (LHD) |  | S10      |   | 88 (RHD) |  |
| F10  |   | 90 (RHD) |  |      |   | 88 (RHD) |  |          |   | 74 (LHD) |  |
| J8   |   | 74 (LHD) |  | M3   | B | 74 (LHD) |  | T5       |   | 88 (RHD) |  |
| J13  | A | 74 (LHD) |  |      |   | 88 (RHD) |  |          |   |          |  |
| J18  |   | 74 (LHD) |  | N3   | A | 78 (LHD) |  |          |   |          |  |

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)                                   |
|------|----------|----------------------------------------------------------------------------------------|
| 1C   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)                            |
|      | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel)                           |
| 1D   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)                            |
|      | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel)                           |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                                        |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                                       |
| 1G   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                                        |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                                       |
| 2H   | 61 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)                                    |
|      | 61 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)                                     |
| 3A   | 62       | Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Reinforcement Center) |
| 3G   | 63       |                                                                                        |
| 3H   |          |                                                                                        |
|      |          |                                                                                        |

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                   |
|------|-----------|------------------------------------------------------------------------------|
| IB1  | 98 (LHD)  | Front Door LH Wire and Cowl Wire (Left Kick Panel)                           |
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)          |
| ID2  |           |                                                                              |
| ID3  |           |                                                                              |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column)       |
| IG1  | 108 (RHD) | Instrument Panel Wire and Floor No.1 Wire (Front LH Side of the Shift Lever) |
| IG2  |           |                                                                              |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)           |
|      | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column)      |
| IJ2  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)           |
| IJ3  |           |                                                                              |
| IL1  | 110 (RHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                          |
| IL3  | 100 (LHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                             |
| IM1  | 100 (LHD) | Instrument Panel Wire and Floor No.1 Wire (Front RH Side of the Shift Lever) |
| IM2  |           |                                                                              |
| IM3  | 110 (RHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                             |

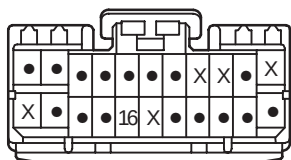
 : GROUND POINTS

| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| IF   | 98 (LHD)  | Left Kick Panel              |
|      | 108 (RHD) |                              |
| IH   | 98 (LHD)  | Instrument Panel Brace RH    |
|      | 108 (RHD) | Instrument Panel Brace LH    |
| II   | 98 (LHD)  | Right Side of the Cowl Panel |
|      | 108 (RHD) | Cowl Side Panel RH           |
| BM   | 102 (LHD) | Quarter Panel RH             |
|      | 112 (RHD) |                              |

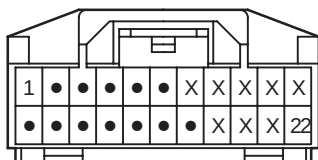
 : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| I3   | 100 (LHD) | Instrument Panel Wire           | I4   | 110 (RHD) | Instrument Panel Wire           |
| I4   |           |                                 | I5   |           |                                 |

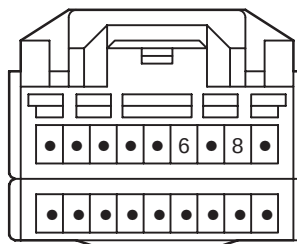
A16



C11 (A)



C12 (B)



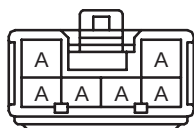
F9



F10

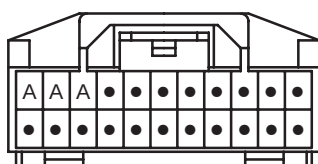


J8



(Hint : See Page 7, 23, 39)

J13 (A)



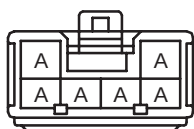
(Hint : See Page 7, 23, 39)

J18



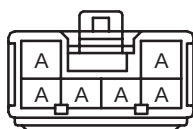
(Hint : See Page 7, 23, 39)

J22



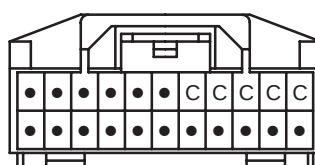
(Hint : See Page 7, 23, 39)

J32



(Hint : See Page 7, 23, 39)

J36 (B)



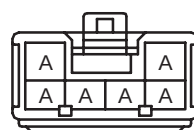
(Hint : See Page 7, 23, 39)

J37



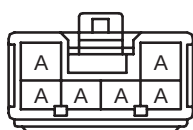
(Hint : See Page 7, 23, 39)

J42



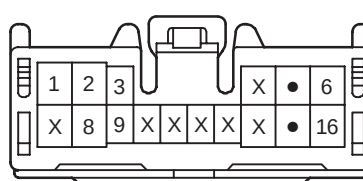
(Hint : See Page 7, 23, 39)

J45

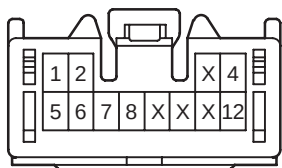


(Hint : See Page 7, 23, 39)

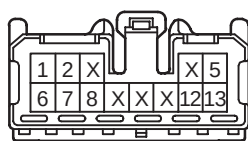
M2 (A) BLUE



M3 (B)



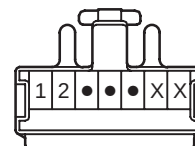
N3 (A)



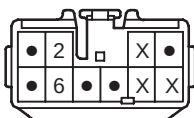
N4 (B)



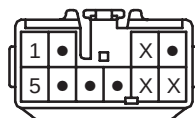
R4



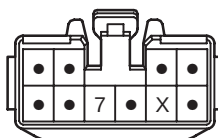
(LHD) S10



(RHD) S10



T5 GRAY



## SYSTEM OUTLINE

PPS ECU (Flow rate control system) controls the solenoid valves mounted in the pump to conduct direct control of the pump flow rate in response to the vehicle speed possible, ensuring natural and real steering feeling.

### 1. PPS OPERATION

When the ignition SW is turned on, the starting current flows from the **ECU-IG** fuse to **TERMINAL 4** of the PPS ECU. The vehicle speed signal from the ABS & TRC & VSC ECU is input PPS ECU **TERMINAL 5**, via the combination meter.

When the vehicle speed is low, the PPS ECU sends a higher-current from **TERMINAL 1** of the ECU to **TERMINAL 1** of the PPS solenoid to **TERMINAL 2** to **TERMINAL 2** of the ECU to **TERMINAL 6** to **GROUND**, increasing the solenoid valve opening angle to provide comfortable steering operation. When the vehicle speed is high, the PPS ECU decreases the solenoid valve opening angle by reducing the current to the valve to provide responsive steering feeling.

## SERVICE HINTS

### P2 PPS SOLENOID

1-2 : Approx. **7.8 Ω** (25°C, 77°F)

### P5 PPS ECU

4-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

6-GROUND : Always continuity

## ○ : PARTS LOCATION

| Code |   | See Page | Code |   | See Page | Code |   | See Page |
|------|---|----------|------|---|----------|------|---|----------|
| C11  | A | 72 (LHD) | J10  |   | 74 (LHD) | J41  | B | 88 (RHD) |
|      |   | 86 (RHD) | J13  | A | 74 (LHD) | J42  |   | 88 (RHD) |
| C12  | B | 72 (LHD) | J18  |   | 74 (LHD) | P2   |   | 70 (LHD) |
|      |   | 86 (RHD) | J32  |   | 88 (RHD) |      |   | 84 (RHD) |
| J7   | A | 74 (LHD) | J36  | B | 88 (RHD) | P5   |   | 74 (LHD) |
| J8   |   | 74 (LHD) | J37  |   | 88 (RHD) |      |   | 88 (RHD) |

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)         |
|------|----------|--------------------------------------------------------------|
| 1D   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)  |
|      | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel) |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1G   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |

## □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

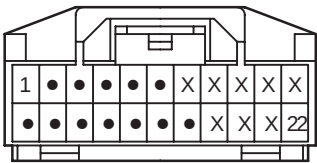
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)              |
|------|-----------|-------------------------------------------------------------------------|
| EA1  | 96 (LHD)  | Engine Wire and Cowl Wire (Inside of the ECU Box)                       |
|      | 106 (RHD) |                                                                         |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column)  |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |

## ▽ : GROUND POINTS

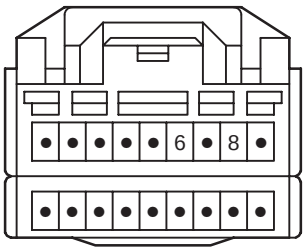
| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| IF   | 98 (LHD)  | Left Kick Panel              |
|      | 108 (RHD) |                              |
| IG   | 108 (RHD) | Behind the Combination Meter |
| II   | 98 (LHD)  | Right Side of the Cowl Panel |
|      | 108 (RHD) | Cowl Side Panel RH           |



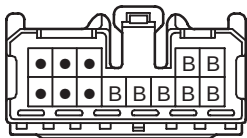
C11 (A)



C12 (B)

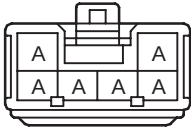


J7 (A) GRAY



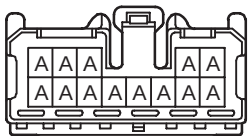
(Hint : See Page 7, 23, 39)

J8



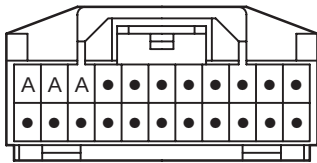
(Hint : See Page 7, 23, 39)

J10 ORANGE



(Hint : See Page 7, 23, 39)

J13 (A)



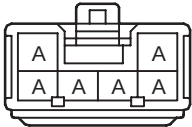
(Hint : See Page 7, 23, 39)

J18



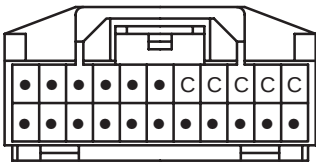
(Hint : See Page 7, 23, 39)

J32



(Hint : See Page 7, 23, 39)

J36 (B)



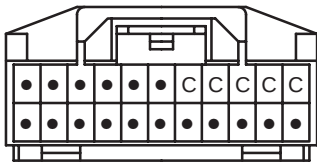
(Hint : See Page 7, 23, 39)

J37



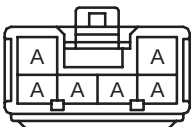
(Hint : See Page 7, 23, 39)

J41 (B)



(Hint : See Page 7, 23, 39)

J42



(Hint : See Page 7, 23, 39)

P2 GRAY



P5 BLUE



# POWER SOURCE

## SERVICE HINTS

### HEAD LP RELAY

2-1 : Closed with light control SW at **HEAD** position or dimmer SW at **FLASH** position

### TAIL RELAY

5-3 : Closed with light control SW at **TAIL** or **HEAD** position

### ENG MAIN RELAY

1-2 : Closed with ignition SW at **ON** or **ST** position

### I12 IGNITION SW

2-3 : Closed with ignition key at **ACC** or **ON** position

2-4 : Closed with ignition key at **ON** or **ST** position

7-6 : Closed with ignition key at **ON** or **ST** position

7-6 : Closed with ignition key at **ST** position

## : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| I12  | 72 (LHD) | J16  | 74 (LHD) |      |          |
|      | 86 (RHD) | J39  | 88 (RHD) |      |          |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |
| 3    | 56       | Engine Room No.3 R/B (Engine Compartment Left)  |

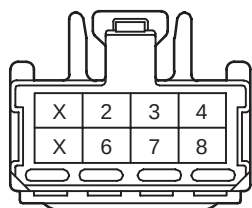
## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)            |
|------|----------|-----------------------------------------------------------------|
| 1A   | 58 (LHD) | Engine Room Main Wire and Driver Side J/B (Left Kick Panel)     |
|      | 58 (RHD) | Engine Room Main Wire and Driver Side J/B (Right Kick Panel)    |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                |
| 1J   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                |
| 2A   | 60 (LHD) | Engine Room Main Wire and Passenger Side J/B (Right Kick Panel) |
|      | 60 (RHD) | Engine Room Main Wire and Passenger Side J/B (Left Kick Panel)  |
| 2B   | 60 (LHD) | Engine Room Main Wire and Passenger Side J/B (Right Kick Panel) |
|      | 60 (RHD) | Engine Room Main Wire and Passenger Side J/B (Left Kick Panel)  |

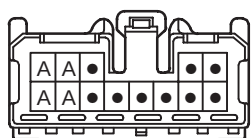
## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)          |
|------|-----------|---------------------------------------------------------------------|
| EB1  | 96 (LHD)  | Cowl Wire and Relay Block Wire (Inside of the Engine Room No.3 R/B) |
| IA1  | 98 (LHD)  | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)      |
| II4  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)   |
| IK1  | 110 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)      |

I12

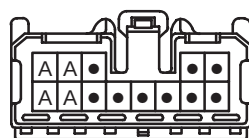


J16



(Hint : See Page 7, 23, 39)

J39



(Hint : See Page 7, 23, 39)

## SERVICE HINTS

### P17 POWER SEAT CONTROL SW (FRONT PASSENGER'S SEAT)

1-GROUND : Always approx. **12** volts

4-GROUND : Always continuity

### L9 LUMBAR SUPPORT CONTROL SW (FRONT PASSENGER'S SEAT)

1 (LHD), 4 (RHD)-GROUND : Always approx. **12** volts

2 (LHD), 3 (RHD)-GROUND : Always continuity



## : PARTS LOCATION

| Code | See Page | Code     | See Page | Code     | See Page |
|------|----------|----------|----------|----------|----------|
| J24  | A        | 80 (LHD) | P25      | 80 (LHD) | P28      |
| J46  | B        | 94 (RHD) |          | 94 (RHD) |          |
| L9   |          | 80 (LHD) | P26      | 80 (LHD) | P29      |
|      |          | 94 (RHD) |          | 94 (RHD) |          |
| P17  |          | 80 (LHD) | P27      | 80 (LHD) |          |
|      |          | 94 (RHD) |          | 94 (RHD) |          |



## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)      |
|------|----------|-----------------------------------------------------------|
| 2E   | 60 (LHD) | Floor No.1 Wire and Passenger Side J/B (Right Kick Panel) |
|      | 60 (RHD) | Floor No.2 Wire and Passenger Side J/B (Left Kick Panel)  |



## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|-----------|---------------------------------------------------------------------------|
| BC1  | 114 (RHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Front Passenger's Seat) |
| BD1  | 104 (LHD) | Floor No.1 Wire and Front Seat RH Wire (Under the Front Passenger's Seat) |



## : GROUND POINTS

| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| BJ   | 112 (RHD) | Rear Floor Partition Panel LH |
| BL   | 102 (LHD) | Rear Floor Partition Panel RH |

J24 (A)



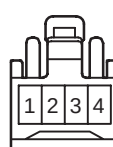
(Hint : See Page 7, 23, 39)

J46 (B)

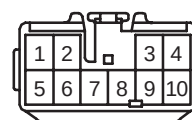


(Hint : See Page 7, 23, 39)

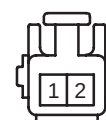
L9



P17 BLACK



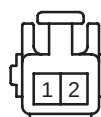
P25 BLUE



P26



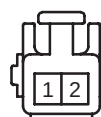
P27



P28



P29



## SERVICE HINTS

### P16 POWER SEAT CONTROL SW (DRIVER'S SEAT)

1-GROUND : Always approx. **12** volts

4-GROUND : Always continuity

### L8 LUMBAR SUPPORT CONTROL SW (DRIVER'S SEAT)

4 (LHD), 1 (RHD)-GROUND : Always approx. **12** volts

3 (LHD), 2 (RHD)-GROUND : Always continuity



## : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| J23  | 80 (LHD) | P20  | 80 (LHD) | P23  | 80 (LHD) |
| J47  | 94 (RHD) |      | 94 (RHD) |      | 94 (RHD) |
| L8   | 80 (LHD) | P21  | 80 (LHD) | P24  | 80 (LHD) |
|      | 94 (RHD) |      | 94 (RHD) |      | 94 (RHD) |
| P16  | 80 (LHD) | P22  | 80 (LHD) |      |          |
|      | 94 (RHD) |      | 94 (RHD) |      |          |



## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)   |
|------|----------|--------------------------------------------------------|
| 1E   | 58 (LHD) | Floor No.2 Wire and Driver Side J/B (Left Kick Panel)  |
|      | 58 (RHD) | Floor No.1 Wire and Driver Side J/B (Right Kick Panel) |



## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)       |
|------|-----------|------------------------------------------------------------------|
| BC1  | 104 (LHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat) |
| BD1  | 114 (RHD) | Floor No.1 Wire and Front Seat RH Wire (Under the Driver's Seat) |



## : GROUND POINTS

| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| BJ   | 102 (LHD) | Rear Floor Partition Panel LH |
| BL   | 112 (RHD) | Rear Floor Partition Panel RH |

J23



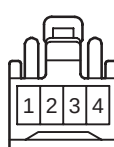
(Hint : See Page 7, 23, 39)

J47

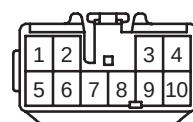


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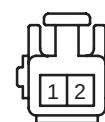
L8



P16 BLACK



P20 BLUE



P21



P22



P23



P24



# POWER SEAT (DRIVER'S SEAT w/ DRIVING POSITION MEMORY) (LHD)

## SYSTEM OUTLINE

### 1. MANUAL SLIDE OPERATION

When the slide SW of the power seat control SW is pressed to **FRONT** position, the signal is input to **TERMINAL (B) 15** of the power seat ECU. This activates the power seat ECU to flow the current into **TERMINAL (A) 3** of the power seat ECU to **TERMINAL 2** of the power seat motor (Slide control) to **TERMINAL 1** to **TERMINAL (A) 4** of the ECU to **(A) 7** to **GROUND**, to move the seat forward while the power seat control SW is kept pressed.

When the slide SW of the power seat control SW is pressed to the **REAR** position, the signal is input to **TERMINAL (B) 16** of the power seat ECU. This activates the ECU to flow the current into **TERMINAL (A) 4** of the power seat ECU, **TERMINAL 1** of the power seat motor (Slide control) to **TERMINAL 2** to **TERMINAL (A) 3** of the ECU to **(A) 7** to **GROUND**, to move the seat back backward.

At this time, the power seat position sensor (Slide control) detects the seat position and always inputs it to **TERMINAL (B) 14** of the power seat ECU.

### 2. MANUAL RECLINING CONTROL

When the reclining SW of the power seat control SW is pressed forward, the signal is input to **TERMINAL (B) 21** of the power seat ECU. This activates the power seat ECU to flow the current into **TERMINAL (A) 1** of the power seat ECU to **TERMINAL 1** of the power seat motor (Reclining control) to **TERMINAL 2** to **TERMINAL (A) 2** of the ECU to **(A) 7** to **GROUND**, to tilt the seat back forward while the power seat control SW is kept pressed.

When the reclining SW of the power seat control SW is pressed backward, the signal is input to **TERMINAL (B) 22** of the power seat ECU. This activates the ECU to flow the current into **TERMINAL (A) 2** of the power seat ECU, **TERMINAL 2** of the power seat motor (Reclining control) to **TERMINAL 1** to **TERMINAL (A) 1** of the ECU to **(A) 7** to **GROUND**, to tilt the seat backward.

At this time, the power seat position sensor (Reclining control) detects the seat back position and always inputs it to **TERMINAL (B) 5** of the power seat ECU.

### 3. MANUAL FRONT VERTICAL CONTROL

When the front part of the slide SW of the power seat control SW is pushed up, the signal is input to **TERMINAL (B) 19** of the power seat ECU. This activates the power seat ECU to flow the current into **TERMINAL (A) 10** of the power seat ECU to **TERMINAL 1** of the power seat motor (Front vertical control) to **TERMINAL 2** to **TERMINAL (A) 9** of the ECU to **(A) 7** to **GROUND**, to raise the front part of the seat cushion while the power seat control SW is kept pressed.

When the front part of the slide SW of the power seat control SW is pushed down, the signal is input to **TERMINAL (B) 7** of the power seat ECU. This activates the power seat ECU to flow the current into **TERMINAL (A) 9** of the power seat ECU, **TERMINAL 2** of the power seat motor (Front vertical control) to **TERMINAL 1** to **TERMINAL (A) 10** of the ECU to **(A) 7** to **GROUND**, to lower the front part of the seat cushion while the power seat control SW is kept pressed.

At this time, the power seat position sensor (Front vertical control) detects the seat cushion position (Front) and always inputs the signal to **TERMINAL (B) 3** of the power seat ECU.

### 4. MANUAL REAR VERTICAL OPERATION

When the rear part of the slide SW of the power seat control SW is pushed up, the signal is input to **TERMINAL (B) 17** of the power seat ECU. This activates the power seat ECU to flow the current into **TERMINAL (A) 6** of the power seat ECU to **TERMINAL 1** of the power seat motor (Rear vertical control) to **TERMINAL 2** to **TERMINAL (A) 5** of the ECU to **(A) 7** to **GROUND**, to raise the seat while the power seat control SW is kept pressed.

When the rear part of the slide SW of the power seat control SW is pushed down, the signal is input to **TERMINAL (B) 18** of the power seat ECU. This activates the ECU to flow the current into **TERMINAL (A) 5** of the power seat ECU to **TERMINAL 1** of the power seat motor (Rear vertical control) to **TERMINAL 2** to **TERMINAL (A) 6** of the ECU to **(A) 7** to **GROUND**, to lower the seat while the power seat control SW is kept pressed.

At this time, the power seat position sensor (Rear vertical control) detects the seat cushion position (Rear) and always inputs the signal to **TERMINAL (B) 4** of the power seat ECU.

### 5. MANUAL LUMBAR SUPPORT OPERATION

When the lumbar support control SW is pressed forward, the current flows from the **D P/SEAT** fuse into **TERMINAL 4** to **TERMINAL 1** of the lumbar support control SW to **TERMINAL 2** of the power seat motor (Lumbar support control) to **TERMINAL 1** to **TERMINAL 2** of the SW to **TERMINAL 3** to **GROUND**, to move the lumbar support forward.

When the SW is pressed backward, the current from the **D P/SEAT** fuse flows into **TERMINAL 4** to **TERMINAL 2** of the lumbar support control SW to **TERMINAL 1** of the power seat motor (Lumbar support control) to **TERMINAL 2** to **TERMINAL 1** of the SW to **TERMINAL 3** to **GROUND**, to move the lumbar support backward.

### 6. DRIVING POSITION MEMORY FUNCTION

Each position sensor in the seat detects the number of rotations of the relevant motor (Seat movement amount) and inputs it to the ECU. This makes it possible to store and recall the seat position by operating the position memory SW. The driving seat position is stored and recalled through communication control of the body ECU and door ECU etc.

## SERVICE HINTS

### P18 (A), P19 (B) POWER SEAT ECU

- (B) 9-GROUND : Always approx. **12** volts
- (A) 8-GROUND : Always approx. **12** volts
- (A) 7-GROUND : Always continuity
- (B) 13-GROUND : Always continuity
- (B) 8-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- (A) 1-GROUND : Approx. **12** volts with driver's seat at rear reclining operation
- (A) 2-GROUND : Approx. **12** volts with driver's seat at front reclining operation
- (A) 10-GROUND : Approx. **12** volts with driver's seat at front vertical up operation
- (A) 9-GROUND : Approx. **12** volts with driver's seat at front vertical down operation
- (A) 6-GROUND : Approx. **12** volts with driver's seat at rear vertical up operation
- (A) 5-GROUND : Approx. **12** volts with driver's seat at rear vertical down operation
- (A) 3-GROUND : Approx. **12** volts with driver's seat at rear slide operation
- (A) 4-GROUND : Approx. **12** volts with driver's seat at front slide operation

### P16 POWER SEAT CONTROL SW (DRIVER'S SEAT)

- 3-1 : Closed with driver's seat at front reclining operation
- 2-1 : Closed with driver's seat at rear reclining operation
- 10-1 : Closed with driver's seat at front vertical up operation
- 5-1 : Closed with driver's seat at front vertical down operation
- 7-1 : Closed with driver's seat at rear vertical up operation
- 8-1 : Closed with driver's seat at rear vertical down operation
- 9-1 : Closed with driver's seat at front slide operation
- 6-1 : Closed with driver's seat at rear slide operation

### L8 LUMBAR SUPPORT CONTROL SW (DRIVER'S SEAT)

- 4-GROUND : Always approx. **12** volts
- 3-GROUND : Always continuity



## : PARTS LOCATION

| Code | See Page   | Code | See Page   | Code | See Page |
|------|------------|------|------------|------|----------|
| A16  | 72 (LHD)   | J10  | 74 (LHD)   | P20  | 80 (LHD) |
| B5   | A 72 (LHD) | J13  | 74 (LHD)   | P21  | 80 (LHD) |
| B6   | A 72 (LHD) | J16  | 74 (LHD)   | P22  | 80 (LHD) |
| C12  | 72 (LHD)   | J18  | 74 (LHD)   | P23  | 80 (LHD) |
| D18  | A 76 (LHD) | J19  | 74 (LHD)   | P24  | 80 (LHD) |
| D20  | C 76 (LHD) | J21  | 78 (LHD)   | P30  | 80 (LHD) |
| D21  | 76 (LHD)   | J23  | 80 (LHD)   | P31  | 80 (LHD) |
| E5   | 68 (LHD)   | L8   | 80 (LHD)   | P32  | 80 (LHD) |
| F11  | A 76 (LHD) | M2   | 74 (LHD)   | P33  | 80 (LHD) |
| F13  | C 76 (LHD) | P16  | 80 (LHD)   | R13  | 78 (LHD) |
| J7   | 74 (LHD)   | P18  | A 80 (LHD) | R14  | 78 (LHD) |
| J8   | 74 (LHD)   | P19  | B 80 (LHD) | T5   | 74 (LHD) |



## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |

# POWER SEAT (DRIVER'S SEAT w/ DRIVING POSITION MEMORY) (LHD)

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)  |
|------|----------|-------------------------------------------------------|
| 1E   | 58 (LHD) | Floor No.2 Wire and Driver Side J/B (Left Kick Panel) |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)       |
| 1G   | 59 (LHD) |                                                       |
| 1H   |          |                                                       |
| 2B   | 60 (LHD) |                                                       |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)   |
| 2G   | 61 (LHD) |                                                       |
| 2H   |          |                                                       |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

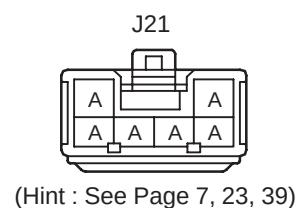
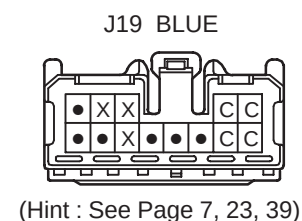
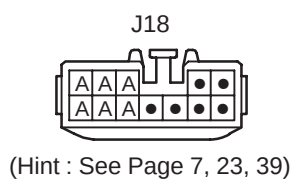
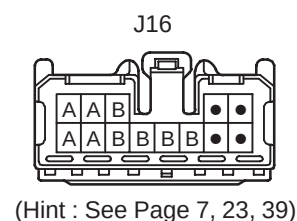
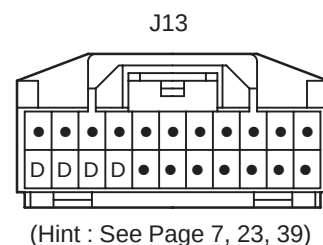
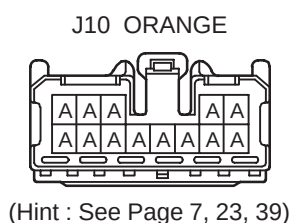
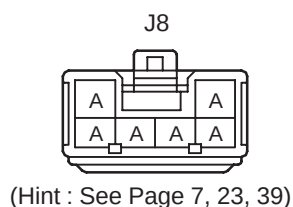
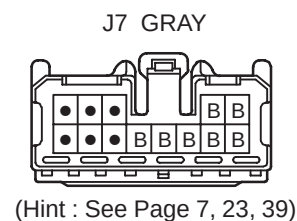
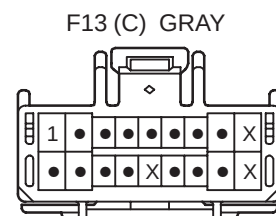
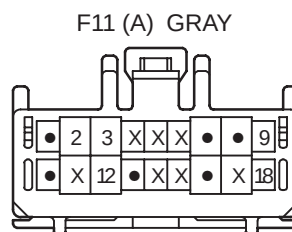
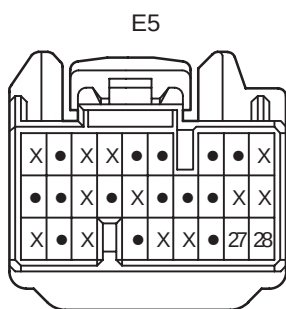
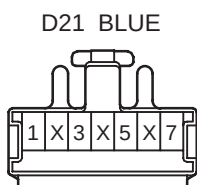
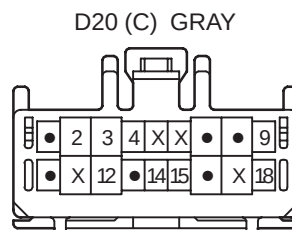
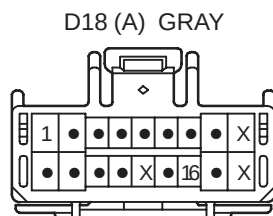
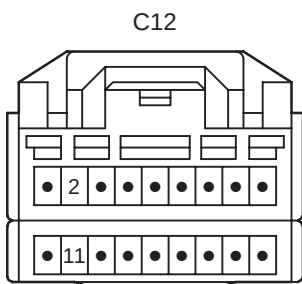
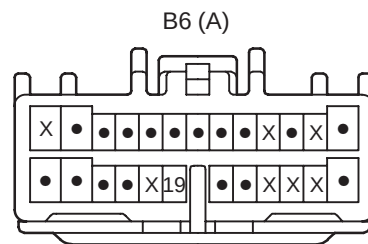
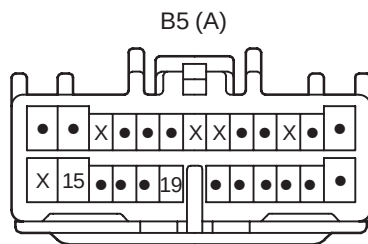
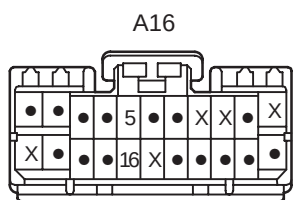
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)             |
|------|-----------|------------------------------------------------------------------------|
| IB1  | 98 (LHD)  | Front Door LH Wire and Cowl Wire (Left Kick Panel)                     |
| IC1  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                        |
| IC2  |           |                                                                        |
| IC3  |           |                                                                        |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column) |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)     |
| IK1  | 100 (LHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                    |
| IL1  | 100 (LHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                       |
| IL3  |           |                                                                        |
| BA1  | 102 (LHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)     |
| BB1  | 102 (LHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)     |
| BC1  | 104 (LHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)       |

## : GROUND POINTS

| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| IF   | 98 (LHD)  | Left Kick Panel               |
| II   | 98 (LHD)  | Right Side of the Cowl Panel  |
| BJ   | 102 (LHD) | Rear Floor Partition Panel LH |
| BK   | 102 (LHD) | Quarter Panel LH              |

## : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| I6   | 100 (LHD) | Cowl Wire                       | B7   | 104 (LHD) | Front Seat LH Wire              |





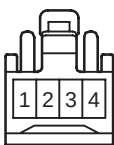
POWER SEAT (DRIVER'S SEAT w/ DRIVING POSITION MEMORY) (LHD)

J23

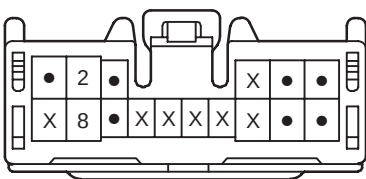


(Hint : See Page 7, 23, 39)

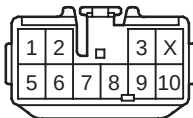
L8



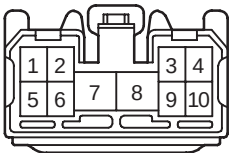
M2 BLUE



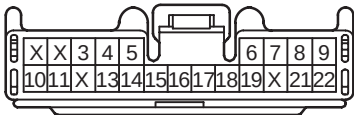
P16 BLACK



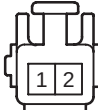
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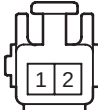
P19 (B)



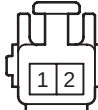
P20 BLUE



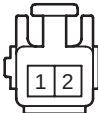
P21



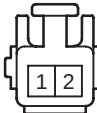
P22



P23



P24



P30 BLUE



P31



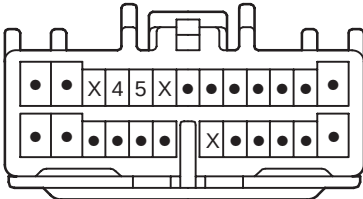
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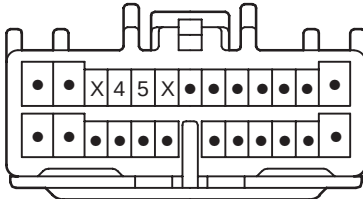
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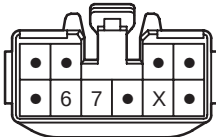
R13



R14



T5 GRAY



## SYSTEM OUTLINE

### 1. MANUAL SLIDE OPERATION

When the slide SW of the power seat control SW is pressed to the **FRONT** position, the signal is input to **TERMINAL (B) 15** of the power seat ECU. This activates the power seat ECU to flow the current into **TERMINAL (A) 3** of the power seat ECU to **TERMINAL 2** of the power seat motor (Slide control) to **TERMINAL 1** to **TERMINAL (A) 4** of the ECU to **(A) 7** to **GROUND**, to move the seat forward while the power seat control SW is kept pressed.

When the slide SW of the power seat control SW is pressed to the **REAR** position, the signal is input to **TERMINAL (B) 16** of the power seat ECU. This activates the ECU to flow the current into **TERMINAL (A) 4** of the power seat ECU, **TERMINAL 1** of the power seat motor (Slide control) to **TERMINAL 2** to **TERMINAL (A) 3** of the ECU to **(A) 7** to **GROUND**, to move the seat back backward.

At this time, the power seat position sensor (Slide control) detects the seat position and always inputs it to **TERMINAL (B) 14** of the power seat ECU.

### 2. MANUAL RECLINING CONTROL

When the reclining SW of the power seat control SW is pressed forward, the signal is input to **TERMINAL (B) 21** of the power seat ECU. This activates the power seat ECU to flow the current into **TERMINAL (A) 1** of the power seat ECU to **TERMINAL 1** of the power seat motor (Reclining control) to **TERMINAL 2** to **TERMINAL (A) 2** of the ECU to **(A) 7** to **GROUND**, to tilt the seat back forward while the power seat control SW is kept pressed.

When the reclining SW of the power seat control SW is pressed backward, the signal is input to **TERMINAL (B) 22** of the power seat ECU. This activates the ECU to flow the current into **TERMINAL (A) 2** of the power seat ECU, **TERMINAL 2** of the power seat motor (Reclining control) to **TERMINAL 1** to **TERMINAL (A) 1** of the ECU to **(A) 7** to **GROUND**, to tilt the seat backward.

At this time, the power seat position sensor (Reclining control) detects the seat back position and always inputs it to **TERMINAL (B) 5** of the power seat ECU.

### 3. MANUAL FRONT VERTICAL CONTROL

When the front part of the slide SW of the power seat control SW is pushed up, the signal is input to **TERMINAL (B) 19** of the power seat ECU. This activates the power seat ECU to flow the current into **TERMINAL (A) 10** of the power seat ECU to **TERMINAL 1** of the power seat motor (Front vertical control) to **TERMINAL 2** to **TERMINAL (A) 9** of the ECU to **(A) 7** to **GROUND**, to raise the front part of the seat cushion while the power seat control SW is kept pressed.

When the front part of the slide SW of the power seat control SW is pushed down, the signal is input to **TERMINAL (B) 7** of the power seat ECU. This activates the power seat ECU to flow the current into **TERMINAL (A) 9** of the power seat ECU, **TERMINAL 2** of the power seat motor (Front vertical control) to **TERMINAL 1** to **TERMINAL (A) 10** of the ECU to **(A) 7** to **GROUND**, to lower the front part of the seat cushion while the power seat control SW is kept pressed.

At this time, the power seat position sensor (Front vertical control) detects the seat cushion position (Front) and always inputs the signal to **TERMINAL (B) 3** of the power seat ECU.

### 4. MANUAL REAR VERTICAL OPERATION

When the rear part of the slide SW of the power seat control SW is pushed up, the signal is input to **TERMINAL (B) 17** of the power seat ECU. This activates the power seat ECU to flow the current into **TERMINAL (A) 6** of the power seat ECU to **TERMINAL 1** of the power seat motor (Rear vertical control) to **TERMINAL 2** to **TERMINAL (A) 5** of the ECU to **(A) 7** to **GROUND**, to raise the seat while the power seat control SW is kept pressed.

When the rear part of the slide SW of the power seat control SW is pushed down, the signal is input to **TERMINAL (B) 18** of the power seat ECU. This activates the ECU to flow the current into **TERMINAL (A) 5** of the power seat ECU to **TERMINAL 1** of the power seat motor (Rear vertical control) to **TERMINAL 2** to **TERMINAL (A) 6** of the ECU to **(A) 7** to **GROUND**, to lower the seat while the power seat control SW is kept pressed.

At this time, the power seat position sensor (Rear vertical control) detects the seat cushion position (Rear) and always inputs the signal to **TERMINAL (B) 4** of the power seat ECU.

### 5. MANUAL LUMBAR SUPPORT OPERATION

When the lumbar support control SW is pressed forward, the current flows from the **D P/SEAT** fuse into **TERMINAL 4** to **TERMINAL 1** of the lumbar support control SW to **TERMINAL 2** of the power seat motor (Lumbar support control) to **TERMINAL 1** to **TERMINAL 2** of the SW to **TERMINAL 3** to **GROUND**, to move the lumbar support forward.

When the SW is pressed backward, the current from the **D P/SEAT** fuse flows into **TERMINAL 4** to **TERMINAL 2** of the lumbar support control SW to **TERMINAL 1** of the power seat motor (Lumbar support control) to **TERMINAL 2** to **TERMINAL 1** of the SW to **TERMINAL 3** to **GROUND**, to move the lumbar support backward.

### 6. DRIVING POSITION MEMORY FUNCTION

Each position sensor in the seat detects the number of rotations of the relevant motor (Seat movement amount) and inputs it to the ECU. This makes it possible to store and recall the seat position by operating the position memory SW. The driving seat position is stored and recalled through communication control of the body ECU and door ECU etc.

## SERVICE HINTS

### P18 (A), P19 (B) POWER SEAT ECU

- (B) 9-GROUND : Always approx. **12** volts
- (A) 8-GROUND : Always approx. **12** volts
- (A) 7-GROUND : Always continuity
- (B) 13-GROUND : Always continuity
- (B) 8-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- (A) 1-GROUND : Approx. **12** volts with driver's seat at rear reclining operation
- (A) 2-GROUND : Approx. **12** volts with driver's seat at front reclining operation
- (A) 10-GROUND : Approx. **12** volts with driver's seat at front vertical up operation
- (A) 9-GROUND : Approx. **12** volts with driver's seat at front vertical down operation
- (A) 6-GROUND : Approx. **12** volts with driver's seat at rear vertical up operation
- (A) 5-GROUND : Approx. **12** volts with driver's seat at rear vertical down operation
- (A) 3-GROUND : Approx. **12** volts with driver's seat at rear slide operation
- (A) 4-GROUND : Approx. **12** volts with driver's seat at front slide operation

### P16 POWER SEAT CONTROL SW (DRIVER'S SEAT)

- 3-1 : Closed with driver's seat at front reclining operation
- 2-1 : Closed with driver's seat at rear reclining operation
- 10-1 : Closed with driver's seat at front vertical down operation
- 5-1 : Closed with driver's seat at front vertical up operation
- 7-1 : Closed with driver's seat at rear vertical down operation
- 8-1 : Closed with driver's seat at rear vertical up operation
- 9-1 : Closed with driver's seat at front slide operation
- 6-1 : Closed with driver's seat at rear slide operation

### L8 LUMBAR SUPPORT CONTROL SW (DRIVER'S SEAT)

- 1-GROUND : Always approx. **12** volts
- 2-GROUND : Always continuity

## : PARTS LOCATION

| Code | See Page   | Code | See Page   | Code | See Page |
|------|------------|------|------------|------|----------|
| A16  | 86 (RHD)   | J37  | 88 (RHD)   | P21  | 94 (RHD) |
| B5   | A 86 (RHD) | J38  | 88 (RHD)   | P22  | 94 (RHD) |
| B6   | A 86 (RHD) | J41  | 88 (RHD)   | P23  | 94 (RHD) |
| C12  | 86 (RHD)   | J42  | 88 (RHD)   | P24  | 94 (RHD) |
| D18  | A 90 (RHD) | J45  | 90 (RHD)   | P30  | 94 (RHD) |
| D20  | C 90 (RHD) | J47  | 94 (RHD)   | P31  | 94 (RHD) |
| D21  | 90 (RHD)   | L8   | 94 (RHD)   | P32  | 94 (RHD) |
| E5   | 82 (RHD)   | M2   | 88 (RHD)   | P33  | 94 (RHD) |
| F11  | A 90 (RHD) | P16  | 94 (RHD)   | R13  | 92 (RHD) |
| F13  | C 90 (RHD) | P18  | A 94 (RHD) | R14  | 92 (RHD) |
| J31  | 88 (RHD)   | P19  | B 94 (RHD) | T5   | 88 (RHD) |
| J32  | 88 (RHD)   | P20  | 94 (RHD)   |      |          |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)            |
|------|----------|------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left) |

# POWER SEAT (DRIVER'S SEAT w/ DRIVING POSITION MEMORY) (RHD)

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)   |
|------|----------|--------------------------------------------------------|
| 1E   | 58 (RHD) | Floor No.1 Wire and Driver Side J/B (Right Kick Panel) |
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)       |
| 1G   | 59 (RHD) |                                                        |
| 1H   |          |                                                        |
| 2B   | 60 (RHD) |                                                        |
| 2F   | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)     |
| 2G   | 61 (RHD) |                                                        |
| 2H   |          |                                                        |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

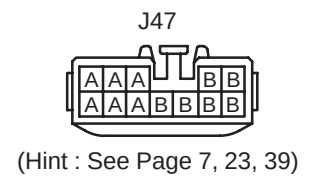
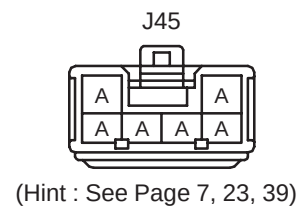
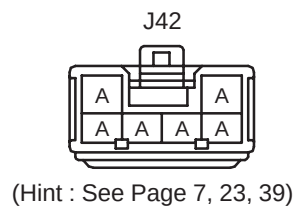
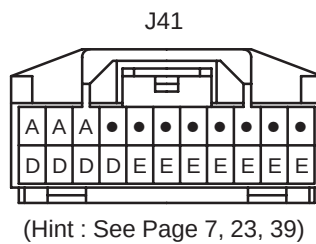
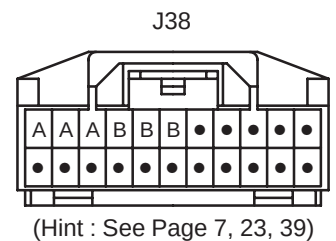
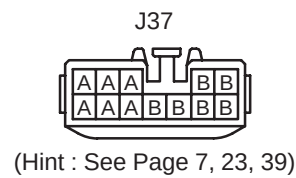
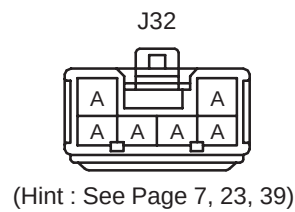
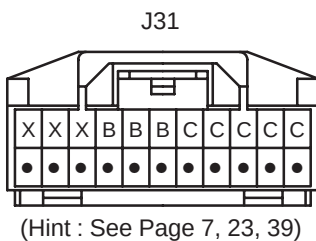
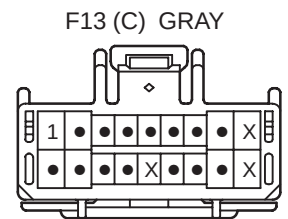
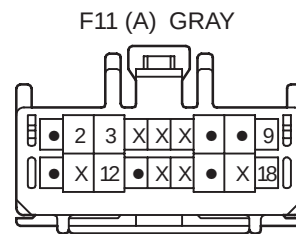
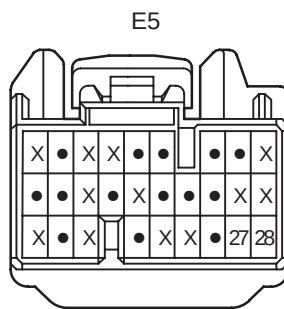
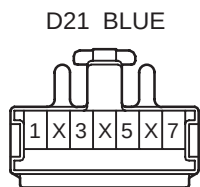
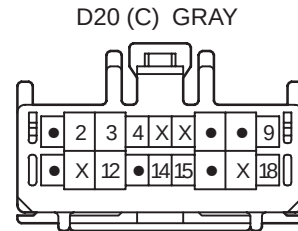
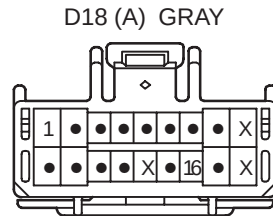
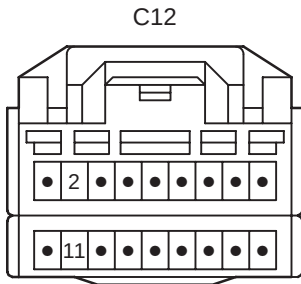
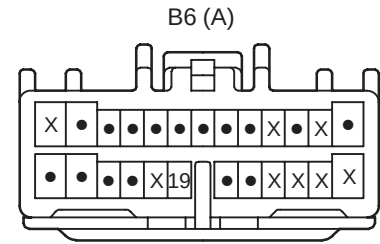
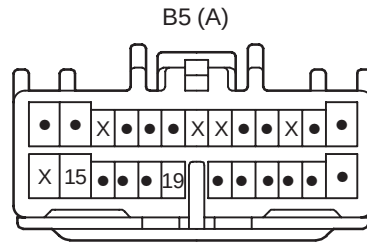
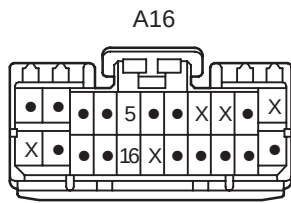
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)              |
|------|-----------|-------------------------------------------------------------------------|
| IB1  | 108 (RHD) | Front Door LH Wire and Cowl Wire (Left Kick Panel)                      |
| IC2  | 108 (RHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                         |
| IC3  |           |                                                                         |
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)     |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |
| IL1  | 110 (RHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                     |
| IM1  | 110 (RHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                        |
| IM3  |           |                                                                         |
| BA1  | 112 (RHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)      |
| BB1  | 112 (RHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)      |
| BD1  | 114 (RHD) | Floor No.1 Wire and Front Seat RH Wire (Under the Driver's Seat)        |

## : GROUND POINTS

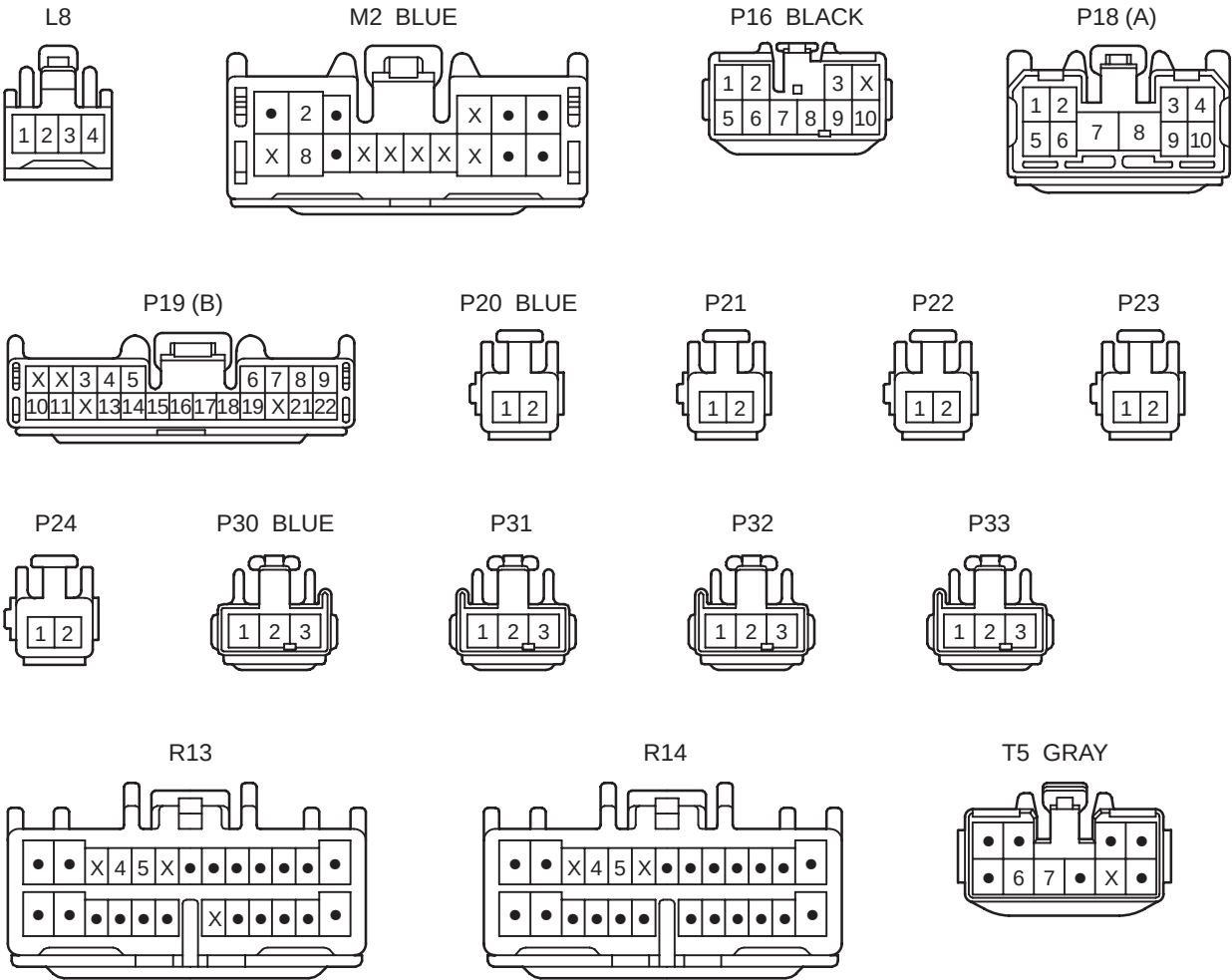
| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| IF   | 108 (RHD) | Left Kick Panel               |
| IG   | 108 (RHD) | Behind the Combination Meter  |
| II   | 108 (RHD) | Cowl Side Panel RH            |
| BL   | 112 (RHD) | Rear Floor Partition Panel RH |
| BM   | 112 (RHD) | Quarter Panel RH              |

## : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|----------|---------------------------------|
| B7   | 114 (RHD) | Front Seat RH Wire              |      |          |                                 |



POWER SEAT (DRIVER'S SEAT w/ DRIVING POSITION MEMORY) (RHD)



## SYSTEM OUTLINE

This system provides the automatic tilt and telescopic mechanisms using the motor drive and ECU control, allowing variable steering movement in the back and forth, and vertical directions. This makes it possible to set the steering to the desired steering position and move the steering to a position where the driver can easily get off the vehicle, allowing easier seating. Additionally, by linking the power seat and remote control mirror, an optimal driving position corresponding to the driver's needs can be stored into the memory.

### 1. AUTO RETURN OPERATION

When the ignition key is inserted into the key cylinder (The unlock warning SW is on), the signal is input to the tilt and telescopic ECU through communication control of the body ECU and door ECU etc. This activates the ECU to automatically return the steering to the position set before the ignition key has been removed.

### 2. AUTO AWAY OPERATION

When the ignition key is turned from ON to OFF and removed from the key cylinder (The unlock warning SW is off), the signal is input to the tilt and telescopic ECU through communication control of the body ECU and door ECU etc. This activates the ECU to automatically move the steering to the top tilt step position and maximum telescopic retract position.

### 3. MANUAL TILT OPERATION

When the ignition key is inserted into the key cylinder, the tilt and telescopic can be adjusted.

Tilt operation

When the tilt and telescopic SW is pressed to **TILT DOWN** position, the current flows from **TERMINAL 3** of the tilt and telescopic ECU into **TERMINAL 9** of the tilt and telescopic SW to **TERMINAL 4** to **TERMINAL 8** of the ECU, and the signal is input to the ECU. This activates the ECU and starts the tilt control motor to lower the steering while the SW is kept pressed to **TILT DOWN** position.

When the tilt and telescopic SW is pressed to **TILT UP** position, the current flows from **TERMINAL 3** of the tilt and telescopic ECU into **TERMINAL 9** of the tilt and telescopic SW to **TERMINAL 4** to **TERMINAL 8** of the ECU, and the signal is input to the ECU. This activates the ECU and starts the tilt control motor to raise the steering while the SW is kept pressed to **TILT UP** position.

Telescopic operation

When the tilt and telescopic SW is pressed to **TELESCO LONG** position, the current flows from **TERMINAL 3** of the tilt and telescopic ECU into **TERMINAL 9** of the tilt and telescopic SW to **TERMINAL 4** to **TERMINAL 8** of the ECU, and the signal is input to the ECU. This activates the ECU and starts the telescopic control motor to extend the telescopic while the SW is kept pressed to **TELESCO LONG** position.

When the tilt and telescopic SW is pressed to **TELESCO SHORT** side, the current flows from **TERMINAL 3** of the tilt and telescopic ECU into **TERMINAL 9** of the tilt and telescopic SW to **TERMINAL 4** to **TERMINAL 8** of the ECU, and the signal is input to the ECU. This activates the ECU and starts the telescopic control motor to retract the telescopic while the SW is kept pressed to **TELESCO SHORT** position.

### 4. DRIVING POSITION MEMORY FUNCTION

The pulse signals detected by the tilt and telescopic sensors are input to the ECU. This makes it possible to store and recall the desired driving position through communication control of the body ECU and door ECU etc.

## SERVICE HINTS

### T5 TILT AND TELESCOPIC ECU

5-GROUND : Always approx. **12** volts

10-GROUND : Always approx. **12** volts

2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

1-GROUND : Always continuity

4-GROUND : Always continuity

### C14 TILT AND TELESCOPIC SW [COMB. SW]

4-9 : Approx. **160**  $\Omega$  with telesco long operation

: Approx. **360**  $\Omega$  with tilt up operation

: Approx. **790**  $\Omega$  with telesco short operation

: Approx. **1.99** k $\Omega$  with tilt down operation

# POWER TILT AND POWER TELESCOPIC

## : PARTS LOCATION

| Code | See Page | Code |   | See Page | Code | See Page |
|------|----------|------|---|----------|------|----------|
| A16  | 72 (LHD) | J7   | A | 74 (LHD) | J42  | 88 (RHD) |
|      | 86 (RHD) | J8   |   | 74 (LHD) | M2   | 74 (LHD) |
| C12  | 72 (LHD) | J10  |   | 74 (LHD) |      | 88 (RHD) |
|      | 86 (RHD) | J16  | A | 74 (LHD) | T5   | 74 (LHD) |
| C14  | 72 (LHD) | J31  | B | 88 (RHD) |      | 88 (RHD) |
|      | 86 (RHD) | J41  | B | 88 (RHD) |      |          |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)            |
|------|----------|-----------------------------------------------------------------|
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                |
| 2B   | 60 (LHD) | Engine Room Main Wire and Passenger Side J/B (Right Kick Panel) |
|      | 60 (RHD) | Engine Room Main Wire and Passenger Side J/B (Left Kick Panel)  |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)             |
|      | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)              |
| 2G   | 61 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)             |
|      | 61 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)              |

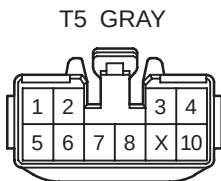
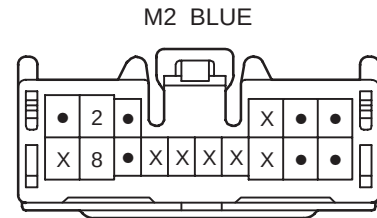
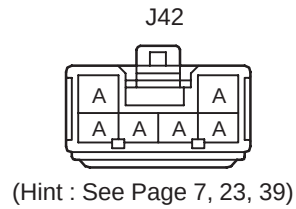
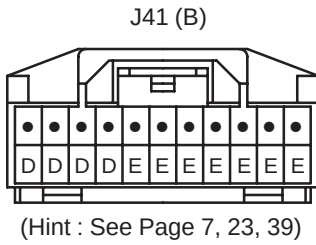
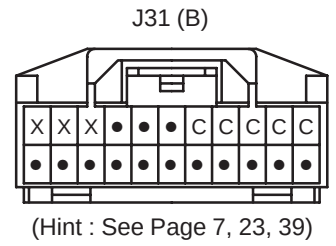
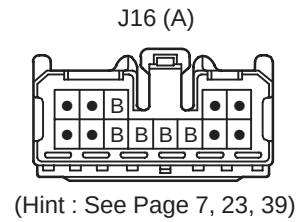
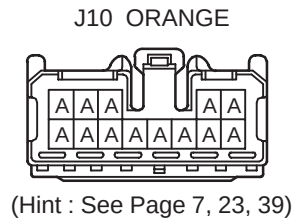
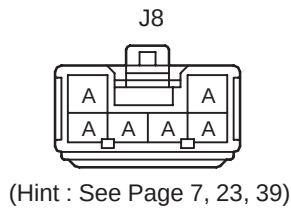
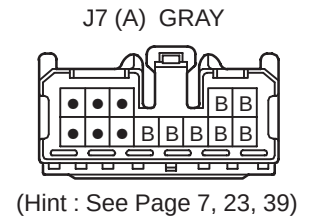
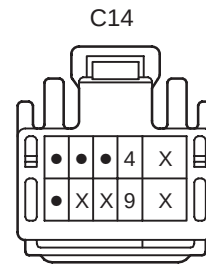
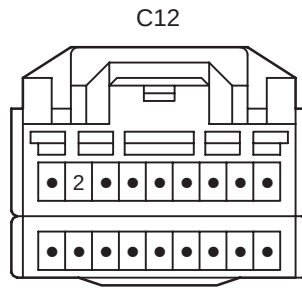
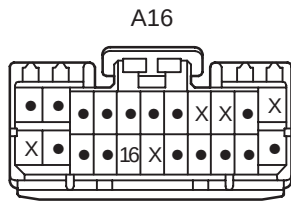
## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)              |
|------|-----------|-------------------------------------------------------------------------|
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)     |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column)  |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)      |
|      | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |

## : GROUND POINTS

| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| EB   | 96 (LHD)  | Left Fender                  |
| IF   | 98 (LHD)  | Left Kick Panel              |
| IG   | 108 (RHD) | Behind the Combination Meter |
| II   | 108 (RHD) | Cowl Side Panel RH           |





## SYSTEM OUTLINE

### 1. MANUAL DOWN OR UP OPERATION

The signal is input to **TERMINAL MDN** of the driver door ECU while the power window master SW is kept pressed one step. This activates the driver door ECU to flow the current from **TERMINAL DN** into the power window motor front LH to **TERMINAL UP** of the driver door ECU to **GROUND**, to rotate the motor and open the window.

The signal is input to **TERMINAL MUP** of the driver door ECU while the power window master SW is kept pulled one step. This activates the driver door ECU to flow the current from **TERMINAL UP** into the power window motor front LH to **TERMINAL DN** of the driver door ECU to **GROUND**, to reversely rotate the motor and close the window. For other windows, as the power window master SW or each power window SW is operated, the window of the relevant door is opened or closed.

### 2. AUTO DOWN OR UP OPERATION

The signals are input to **TERMINALS MDN** and **AUTO** of the driver door ECU when the power window master SW is pressed two steps. According to these signals, it is determined that the driver door ECU is in the auto mode. The current flows from **TERMINAL DN** into the power window motor front LH to **TERMINAL UP** of the driver door ECU to **GROUND**, to rotate the motor and automatically open the window. Accordingly, when each window switch of the power window master SW is pressed, the window of the relevant door is automatically opened through communication control of the body ECU and door ECU etc.

The signals are input to **TERMINALS MUP** and **AUTO** of the driver door ECU when the power window master SW is pulled two steps. According to these signals, it is determined that the driver door ECU is in the auto mode. The current flows from **TERMINAL UP** into the power window motor front LH to **TERMINAL DN** of the driver door ECU to **GROUND**, to rotate the motor and automatically close the window. Accordingly, when each window switch of the power window master SW is pressed, the window of the relevant door is automatically closed through communication control of the body ECU and door ECU etc.

For other windows, as each power window control SW is operated, the window of the relevant door is automatically opened or closed.

### 3. POWER WINDOW OPERATION LINKED WITH DOOR KEY LOCK AND UNLOCK SW

When the ignition key is inserted into the door key cylinder on the driver or passenger side and kept turned to the lock or unlock position for approximately **1.5 sec.** or longer, all the door windows can be opened or closed.

#### \* Power window close operation

When the ignition key is inserted into the door key cylinder and kept turned to the lock position for **1.5 sec.** or longer, the signal from the door key lock and unlock SW is input to **TERMINAL KL** of the driver door ECU or front passenger door ECU. Through communication control of the body ECU and door ECU etc. , the current flows from **TERMINAL UP** of each door ECU into the power window motor to **TERMINAL DN** of the each door ECU to **GROUND**, to close all the door windows.

#### \* Power window open operation

When the ignition key is inserted into the door key cylinder and kept turned to the unlock position for **1.5 sec.** or longer, the signal from the door key lock and unlock SW is input to **TERMINAL KUL** of the driver door ECU or front passenger door ECU. Through communication control of the body ECU and door ECU etc. , the current flows from **TERMINAL DN** of each door ECU into the power window motor to **TERMINAL UP** of the each door ECU to **GROUND**, to close all the door windows.

If any of the following conditions is detected, the power window operation is stopped.

Approximately **10 sec.** or longer has elapsed after starting open/close operation. Catching prevention function is activated.

#### 4. POWER WINDOW OPERATION LINKED WITH TRANSMITTER

(Europe)

When the lock or unlock SW on the transmitter of the ignition key is kept pressed for **1 sec.** or longer, all the door windows can be opened or closed.

\* Power window close operation

When the lock SW of the ignition key is kept pressed for **1 sec.** or longer, the frequency received from the wireless door lock control ECU is input to the body ECU No.1. Through communication control of the body ECU and door ECU etc. , the current flows from **TERMINAL UP** of each door ECU into the power window motor to **TERMINAL DN** of the each door ECU to **GROUND**, to close all the door windows.

\* Power window open operation

When the unlock SW of the ignition key is kept pressed for **1 sec.** or longer, the frequency received from the wireless door lock control ECU is input to the body ECU No.1. Through communication control of the body ECU and door ECU etc. , the current flows from **TERMINAL DN** of each door ECU into the power window motor to **TERMINAL UP** of the each door ECU to **GROUND**, to open all the door windows.

If any of the following conditions is detected, the power window operation is stopped.

Approximately **10 sec.** or longer have elapsed after starting open/close operation.

The lock or unlock switch on the transmitter is released.

Catching prevention function is activated.

(G.C.C.)

When the unlock SW on the transmitter of the ignition key is kept pressed for **1 sec.** or longer, all the door windows can be opened.

\* Power window open operation

When the unlock SW of the ignition key is kept pressed for **1 sec.** or longer, the frequency received from the wireless door lock control ECU is input to the body ECU No.1. Through communication control of the body ECU and door ECU etc. , the current flows from **TERMINAL DN** of each door ECU into the power window motor to **TERMINAL UP** of the each door ECU to **GROUND**, to open all the door windows.

If any of the following conditions is detected, the power window operation is stopped.

Approximately **10 sec.** or longer have elapsed after starting open/close operation.

The lock or unlock SW on the transmitter is released.

Catching prevention function is activated.

#### 5. CATCHING PREVENTION FUNCTION

If any foreign matter is caught in the window while it is rising, the pulse sensor installed in the power window motor detects changes in the number of motor rotations, forcibly lowers the door window **50 mm** or if the door window opening amount is **200 mm** or less, the window is lowered so that the opening amount is **200 mm**.

#### 6. KEY OFF POWER WINDOW OPERATION

The power window can be operated for approximately **45 seconds**, when the ignition SW is turned from ON to OFF with all doors closed. However, when the driver side door or front passenger side door is opened during this time, the operation is canceled. (If the door is opened during auto operation, the operation will stop after it is completed.)

# POWER WINDOW (LHD)

## SERVICE HINTS

### B6 BODY ECU NO.2

- 1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- 8-GROUND : Always approx. **12** volts
- 11-GROUND : Always continuity

### B5 (A) BODY ECU NO.1

- 1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- 8-GROUND : Always approx. **12** volts
- 11-GROUND : Always continuity
- 4-GROUND : Always approx. **12** volts
- (A)15-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position

### D18 (A), D20 (C) DRIVER DOOR ECU

- (A) 1-GROUND : Always approx. **12** volts
- (C) 3-GROUND : Always approx. **12** volts
- (C) 2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- (C)12-GROUND : Always continuity

### F11 (A), F13 (C) FRONT PASSENGER DOOR ECU

- (A) 2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- (A) 3-GROUND : Always approx. **12** volts
- (A)12-GROUND : Always continuity
- (C) 1-GROUND : Always approx. **12** volts

### R13 REAR DOOR LH ECU

- 9-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- 14-GROUND : Always approx. **12** volts
- 15-GROUND : Always approx. **12** volts
- 25-GROUND : Always continuity

### R14 REAR DOOR RH ECU

- 9-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- 15-GROUND : Always approx. **12** volts
- 14-GROUND : Always approx. **12** volts
- 20-GROUND : Always continuity
- 25-GROUND : Always continuity

### P11 POWER WINDOW MASTER SW

- 15-6 : Closed with power window master SW at **MANUAL UP** position
- 15-18 : Closed with power window master SW at **MANUAL DOWN** position
- 15-6, 7 : Closed with power window master SW at **AUTO UP** position
- 15-18, 7 : Closed with power window master SW at **AUTO DOWN** position

### P8, P9, P10 POWER WINDOW CONTROL SW FRONT RH, REAR LH, REAR RH

- 3-6 : Closed with power window SW at **MANUAL UP** operation
- 3-4 : Closed with power window SW at **MANUAL DOWN** operation
- 3-6, 5 : Closed with power window SW at **AUTO UP** operation
- 3-4, 5 : Closed with power window SW at **AUTO DOWN** operation

### WINDOW LOCK SW

- Closed with window lock SW at **LOCK** position

## ○ : PARTS LOCATION

| Code |   | See Page | Code |   | See Page | Code | See Page |
|------|---|----------|------|---|----------|------|----------|
| A16  |   | 72 (LHD) | F11  | A | 76 (LHD) | P9   | 78 (LHD) |
| B5   | A | 72 (LHD) | F12  | B | 76 (LHD) | P10  | 78 (LHD) |
| B6   | A | 72 (LHD) | F13  | C | 76 (LHD) | P11  | 78 (LHD) |
| C12  |   | 72 (LHD) | J7   |   | 74 (LHD) | P12  | 78 (LHD) |
| D8   |   | 76 (LHD) | J8   |   | 74 (LHD) | P13  | 78 (LHD) |
| D9   |   | 76 (LHD) | J10  |   | 74 (LHD) | P19  | 80 (LHD) |
| D16  |   | 76 (LHD) | J13  |   | 74 (LHD) | R13  | 78 (LHD) |
| D17  |   | 76 (LHD) | J16  |   | 74 (LHD) | R14  | 78 (LHD) |
| D18  | A | 76 (LHD) | J18  |   | 74 (LHD) | T5   | 74 (LHD) |
| D19  | B | 76 (LHD) | J22  |   | 78 (LHD) | W6   | 78 (LHD) |
| D20  | C | 76 (LHD) | M2   |   | 74 (LHD) |      |          |
| E5   |   | 68 (LHD) | P8   |   | 78 (LHD) |      |          |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)            |
|------|----------|-----------------------------------------------------------------|
| 1E   | 58 (LHD) | Floor No.2 Wire and Driver Side J/B (Left Kick Panel)           |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
| 1G   | 59 (LHD) |                                                                 |
| 1H   |          |                                                                 |
| 2B   | 60 (LHD) | Engine Room Main Wire and Passenger Side J/B (Right Kick Panel) |
| 2E   | 60 (LHD) | Floor No.1 Wire and Passenger Side J/B (Right Kick Panel)       |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)             |
| 2G   | 61 (LHD) |                                                                 |
| 2H   |          |                                                                 |

## □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)             |
|------|-----------|------------------------------------------------------------------------|
| IB1  | 98 (LHD)  | Front Door LH Wire and Cowl Wire (Left Kick Panel)                     |
| IC2  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                        |
| IC3  |           |                                                                        |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column) |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)     |
| IK1  | 100 (LHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                    |
| IL1  | 100 (LHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                       |
| IL3  |           |                                                                        |
| BA1  | 102 (LHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)     |
| BB1  | 102 (LHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)     |
| BC1  | 104 (LHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)       |

## ▽ : GROUND POINTS

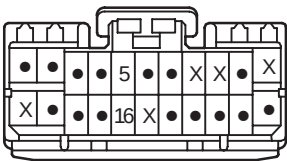
| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| IF   | 98 (LHD)  | Left Kick Panel               |
| II   | 98 (LHD)  | Right Side of the Cowl Panel  |
| BJ   | 102 (LHD) | Rear Floor Partition Panel LH |
| BL   | 102 (LHD) | Rear Floor Partition Panel RH |
| BM   | 102 (LHD) | Quarter Panel RH              |

POWER WINDOW (LHD)

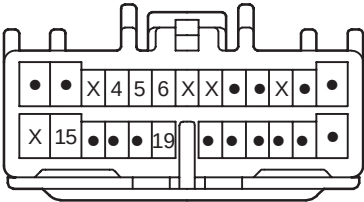
 : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|----------|---------------------------------|
| I6   | 100 (LHD) | Cowl Wire                       |      |          |                                 |

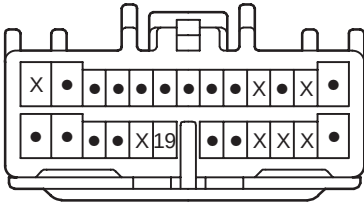
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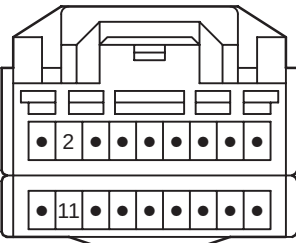
B5 (A)



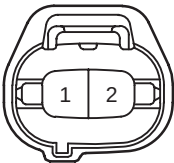
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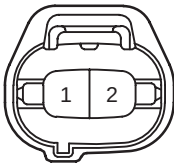
C12



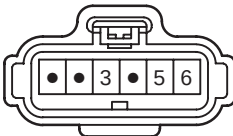
D8 GRAY



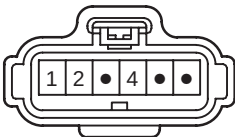
D9 GRAY



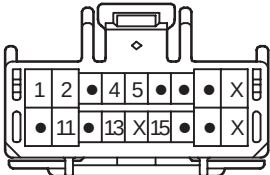
D16 BLACK



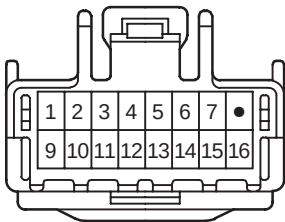
D17 BLACK



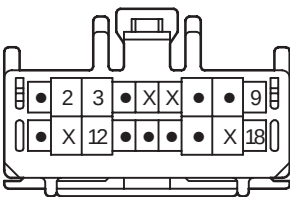
D18 (A) GRAY



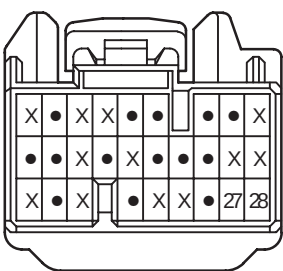
D19 (B) GRAY



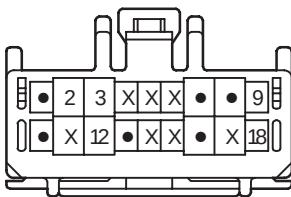
D20 (C) GRAY



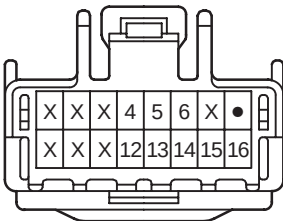
E5



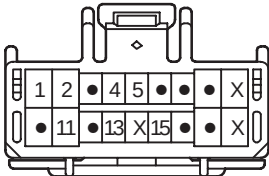
F11 (A) GRAY



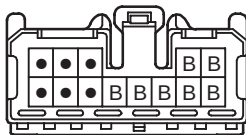
F12 (B) GRAY



F13 (C) GRAY

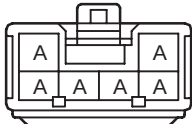


J7 GRAY



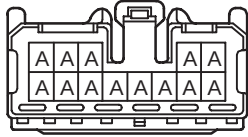
(Hint : See Page 7, 23, 39)

J8



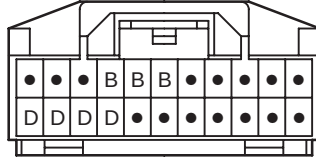
(Hint : See Page 7, 23, 39)

J10 ORANGE



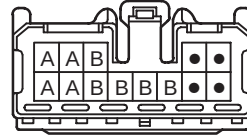
(Hint : See Page 7, 23, 39)

J13



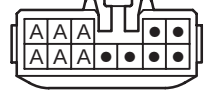
(Hint : See Page 7, 23, 39)

J16



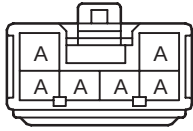
(Hint : See Page 7, 23, 39)

J18



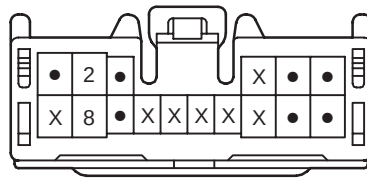
(Hint : See Page 7, 23, 39)

J22

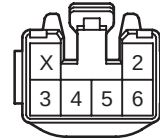


(Hint : See Page 7, 23, 39)

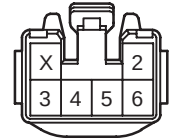
M2 BLUE



P8



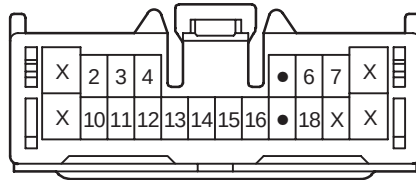
P9



P10



P11



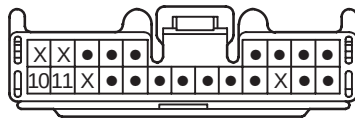
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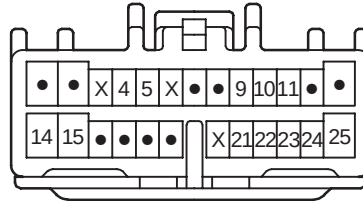
P13



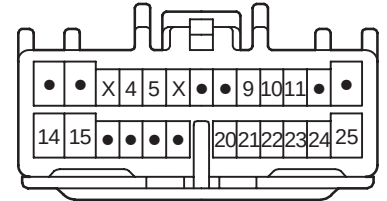
P19



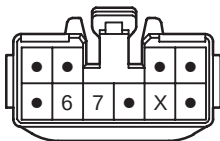
R13



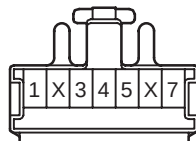
R14



T5 GRAY



W6



## SYSTEM OUTLINE

### 1. MANUAL DOWN OR UP OPERATION

The signal is input to **TERMINAL MDN** of the driver door ECU while the power window master SW is kept pressed one step. This activates the driver door ECU to flow the current from **TERMINAL DN** into the power window motor front LH to **TERMINAL UP** of the driver door ECU to **GROUND**, to rotate the motor and open the window.

The signal is input to **TERMINAL MUP** of the driver door ECU while the power window master SW is kept pulled one step. This activates the driver door ECU to flow the current from **TERMINAL UP** into the power window motor front LH to **TERMINAL DN** of the driver door ECU to **GROUND**, to reversely rotate the motor and close the window. For other windows, as the power window master SW or each power window SW is operated, the window of the relevant door is opened or closed.

### 2. AUTO DOWN OR UP OPERATION

The signals are input to **TERMINALS MDN** and **AUTO** of the driver door ECU when the power window master SW is pressed two steps. According to these signals, it is determined that the driver door ECU is in the auto mode. The current flows from **TERMINAL DN** into the power window motor front LH to **TERMINAL UP** of the driver door ECU to **GROUND**, to rotate the motor and automatically open the window. Accordingly, when each window switch of the power window master SW is pressed, the window of the relevant door is automatically opened through communication control of the body ECU and door ECU etc.

The signals are input to **TERMINALS MUP** and **AUTO** of the driver door ECU when the power window master SW is pulled two steps. According to these signals, it is determined that the driver door ECU is in the auto mode. The current flows from **TERMINAL UP** into the power window motor front LH to **TERMINAL DN** of the driver door ECU to **GROUND**, to rotate the motor and automatically close the window. Accordingly, when each window switch of the power window master SW is pressed, the window of the relevant door is automatically closed through communication control of the body ECU and door ECU etc.

For other windows, as each power window control SW is operated, the window of the relevant door is automatically opened or closed.

### 3. POWER WINDOW OPERATION LINKED WITH DOOR KEY LOCK AND UNLOCK SW

When the ignition key is inserted into the door key cylinder on the driver or passenger side and kept turned to the lock or unlock position for approximately **1.5 sec.** or longer, all the door windows can be opened or closed.

#### \* Power window close operation

When the ignition key is inserted into the door key cylinder and kept turned to the lock position for **1.5 sec.** or longer, the signal from the door key lock and unlock SW is input to **TERMINAL KL** of the driver door ECU or front passenger door ECU. Through communication control of the body ECU and door ECU etc. , the current flows from **TERMINAL UP** of each door ECU into the power window motor to **TERMINAL DN** of the each door ECU to **GROUND**, to close all the door windows.

#### \* Power window open operation

When the ignition key is inserted into the door key cylinder and kept turned to the unlock position for **1.5 sec.** or longer, the signal from the door key lock and unlock SW is input to **TERMINAL KUL** of the driver door ECU or front passenger door ECU. Through communication control of the body ECU and door ECU etc. , the current flows from **TERMINAL DN** of each door ECU into the power window motor to **TERMINAL UP** of the each door ECU to **GROUND**, to close all the door windows.

If any of the following conditions is detected, the power window operation is stopped.

Approximately **10 sec.** or longer has elapsed after starting open/close operation. Catching prevention function is activated.



#### 4. POWER WINDOW OPERATION LINKED WITH TRANSMITTER

(Europe)

When the lock or unlock SW on the transmitter of the ignition key is kept pressed for **1 sec.** or longer, all the door windows can be opened or closed.

\* Power window close operation

When the lock SW of the ignition key is kept pressed for **1 sec.** or longer, the frequency received from the wireless door lock control ECU is input to the body ECU No.1. Through communication control of the body ECU and door ECU etc. , the current flows from **TERMINAL UP** of each door ECU into the power window motor to **TERMINAL DN** of the each door ECU to **GROUND**, to close all the door windows.

\* Power window open operation

When the unlock SW of the ignition key is kept pressed for **1 sec.** or longer, the frequency received from the wireless door lock control ECU is input to the body ECU No.1. Through communication control of the body ECU and door ECU etc. , the current flows from **TERMINAL DN** of each door ECU into the power window motor to **TERMINAL UP** of the each door ECU to **GROUND**, to open all the door windows.

If any of the following conditions is detected, the power window operation is stopped.

Approximately **10 sec.** or longer have elapsed after starting open/close operation.

The lock or unlock switch on the transmitter is released.

Catching prevention function is activated.

(Australia)

When the unlock SW on the transmitter of the ignition key is kept pressed for **1 sec.** or longer, all the door windows can be opened.

\* Power window open operation

When the unlock SW of the ignition key is kept pressed for **1 sec.** or longer, the frequency received from the wireless door lock control ECU is input to the body ECU No.1. Through communication control of the body ECU and door ECU etc. , the current flows from **TERMINAL DN** of each door ECU into the power window motor to **TERMINAL UP** of the each door ECU to **GROUND**, to open all the door windows.

If any of the following conditions is detected, the power window operation is stopped.

Approximately **10 sec.** or longer have elapsed after starting open/close operation.

The lock or unlock SW on the transmitter is released.

Catching prevention function is activated.

#### 5. CATCHING PREVENTION FUNCTION

If any foreign matter is caught in the window while it is rising, the pulse sensor installed in the power window motor detects changes in the number of motor rotations, forcibly lowers the door window **50 mm** or if the door window opening amount is **200 mm** or less, the window is lowered so that the opening amount is **200 mm**.

#### 6. KEY OFF POWER WINDOW OPERATION

The power window can be operated for approximately **45 seconds**, when the ignition SW is turned from ON to OFF with all doors closed. However, when the driver side door or front passenger side door is opened during this time, the operation is canceled. (If the door is opened during auto operation, the operation will stop after it is completed.)

# POWER WINDOW (RHD)

## SERVICE HINTS

### B6 BODY ECU NO.2

- 1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- 8-GROUND : Always approx. **12** volts
- 11-GROUND : Always continuity

### B5 (A) BODY ECU NO.1

- 1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- 8-GROUND : Always approx. **12** volts
- 11-GROUND : Always continuity
- 4-GROUND : Always approx. **12** volts
- (A)15-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position

### D18 (A), D20 (C) DRIVER DOOR ECU

- (A) 1-GROUND : Always approx. **12** volts
- (C) 3-GROUND : Always approx. **12** volts
- (C) 2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- (C)12-GROUND : Always continuity

### F11 (A), F13 (C) FRONT PASSENGER DOOR ECU

- (A) 2-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- (A) 3-GROUND : Always approx. **12** volts
- (A)12-GROUND : Always continuity
- (C) 1-GROUND : Always approx. **12** volts

### R13 REAR DOOR LH ECU

- 9-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- 14-GROUND : Always approx. **12** volts
- 15-GROUND : Always approx. **12** volts
- 25-GROUND : Always continuity

### R14 REAR DOOR RH ECU

- 9-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- 15-GROUND : Always approx. **12** volts
- 14-GROUND : Always approx. **12** volts
- 20-GROUND : Always continuity
- 25-GROUND : Always continuity

### P11 POWER WINDOW MASTER SW

- 15-6 : Closed with power window master SW at **MANUAL UP** position
- 15-18 : Closed with power window master SW at **MANUAL DOWN** position
- 15-6, 7 : Closed with power window master SW at **AUTO UP** position
- 15-18, 7 : Closed with power window master SW at **AUTO DOWN** position

### P7, P9, P10 POWER WINDOW CONTROL SW FRONT LH, REAR LH, REAR RH

- 3-6 : Closed with power window SW at **MANUAL UP** operation
- 3-4 : Closed with power window SW at **MANUAL DOWN** operation
- 3-6, 5 : Closed with power window SW at **AUTO UP** operation
- 3-4, 5 : Closed with power window SW at **AUTO DOWN** operation

### WINDOW LOCK SW

- Closed with window lock SW at **LOCK** position

 : PARTS LOCATION

| Code |   | See Page | Code |   | See Page | Code | See Page |
|------|---|----------|------|---|----------|------|----------|
| A16  |   | 86 (RHD) | F11  | A | 90 (RHD) | P9   | 92 (RHD) |
| B5   | A | 86 (RHD) | F12  | B | 90 (RHD) | P10  | 92 (RHD) |
| B6   | A | 86 (RHD) | F13  | C | 90 (RHD) | P11  | 92 (RHD) |
| C12  |   | 86 (RHD) | J31  |   | 88 (RHD) | P12  | 92 (RHD) |
| D8   |   | 90 (RHD) | J32  |   | 88 (RHD) | P13  | 92 (RHD) |
| D9   |   | 90 (RHD) | J37  |   | 88 (RHD) | P19  | 94 (RHD) |
| D16  |   | 90 (RHD) | J38  |   | 88 (RHD) | R13  | 92 (RHD) |
| D17  |   | 90 (RHD) | J41  |   | 88 (RHD) | R14  | 92 (RHD) |
| D18  | A | 90 (RHD) | J42  |   | 88 (RHD) | T5   | 88 (RHD) |
| D19  | B | 90 (RHD) | J45  |   | 90 (RHD) | W6   | 92 (RHD) |
| D20  | C | 90 (RHD) | M2   |   | 88 (RHD) |      |          |
| E5   |   | 82 (RHD) | P7   |   | 92 (RHD) |      |          |

 : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)            |
|------|----------|------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left) |

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)     |
|------|----------|----------------------------------------------------------|
| 1E   | 58 (RHD) | Floor No.1 Wire and Driver Side J/B (Right Kick Panel)   |
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)         |
| 1G   | 59 (RHD) |                                                          |
| 1H   |          |                                                          |
| 2B   | 60 (RHD) |                                                          |
| 2E   | 60 (RHD) | Floor No.2 Wire and Passenger Side J/B (Left Kick Panel) |
| 2F   | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)       |
| 2G   | 61 (RHD) |                                                          |
| 2H   |          |                                                          |

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|-----------|---------------------------------------------------------------------------|
| IB1  | 108 (RHD) | Front Door LH Wire and Cowl Wire (Left Kick Panel)                        |
| IC2  | 108 (RHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                           |
| IC3  |           |                                                                           |
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)       |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column)   |
| IL1  | 110 (RHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                       |
| IM1  | 110 (RHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                          |
| IM3  |           |                                                                           |
| BA1  | 112 (RHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)        |
| BB1  | 112 (RHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)        |
| BC1  | 114 (RHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Front Passenger's Seat) |
| BD1  | 114 (RHD) | Floor No.1 Wire and Front Seat RH Wire (Under the Driver's Seat)          |

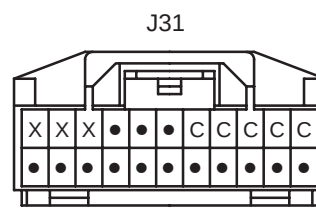
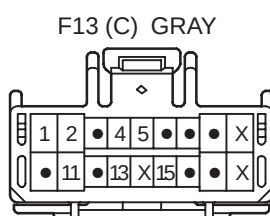
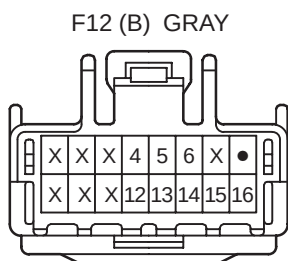
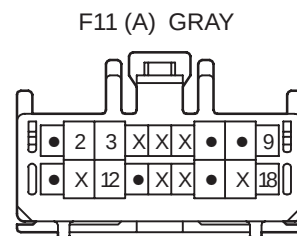
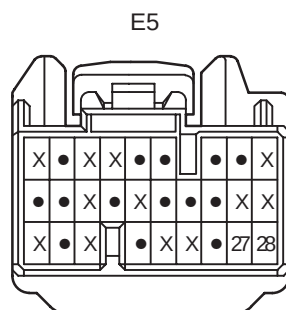
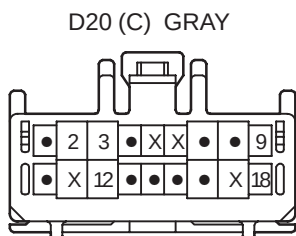
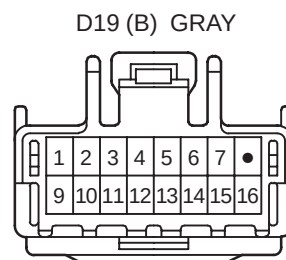
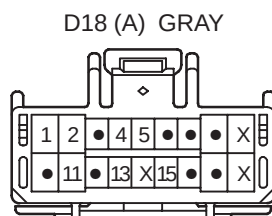
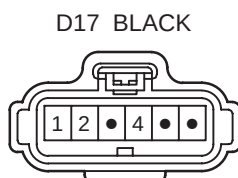
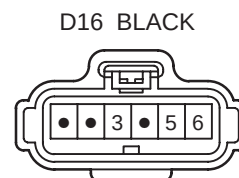
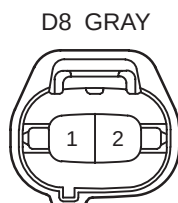
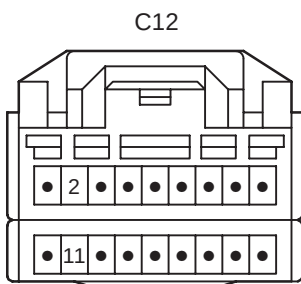
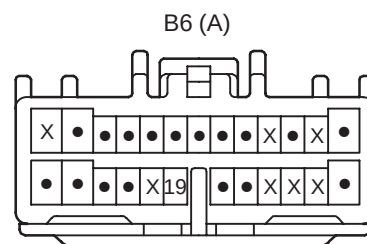
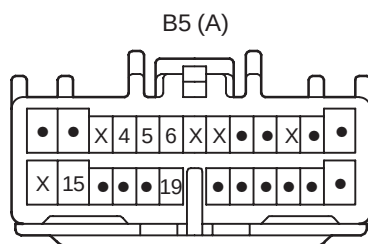
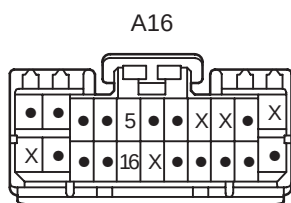
# POWER WINDOW (RHD)

 : GROUND POINTS

| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| IF   | 108 (RHD) | Left Kick Panel               |
| IG   | 108 (RHD) | Behind the Combination Meter  |
| II   | 108 (RHD) | Cowl Side Panel RH            |
| BJ   | 112 (RHD) | Rear Floor Partition Panel LH |
| BL   | 112 (RHD) | Rear Floor Partition Panel RH |
| BM   | 112 (RHD) | Quarter Panel RH              |

 : SPLICE POINTS

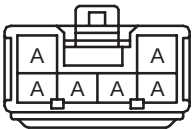
| Code | See Page  | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|----------|---------------------------------|
| I1   | 110 (RHD) | Cowl Wire                       |      |          |                                 |



(Hint : See Page 7, 23, 39)

POWER WINDOW (RHD)

J32



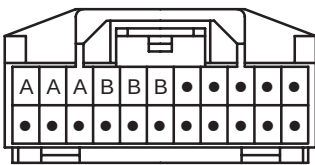
(Hint : See Page 7, 23, 39)

J37



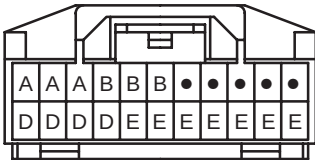
(Hint : See Page 7, 23, 39)

J38



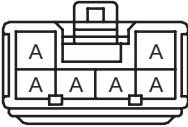
(Hint : See Page 7, 23, 39)

J41



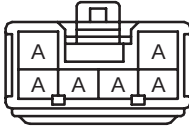
(Hint : See Page 7, 23, 39)

J42



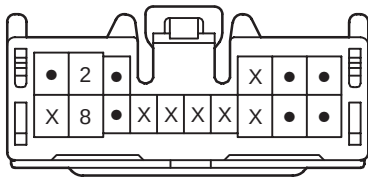
(Hint : See Page 7, 23, 39)

J45

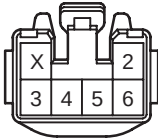


(Hint : See Page 7, 23, 39)

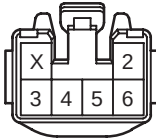
M2 BLUE



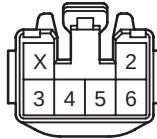
P7



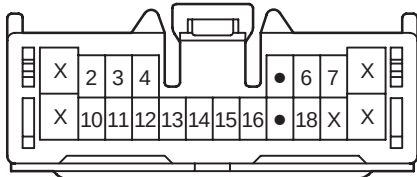
P9



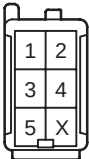
P10



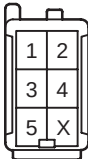
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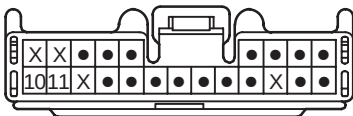
P12



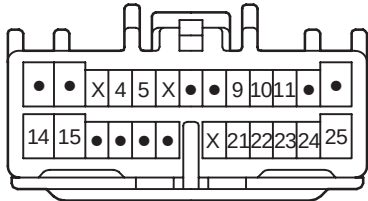
P13



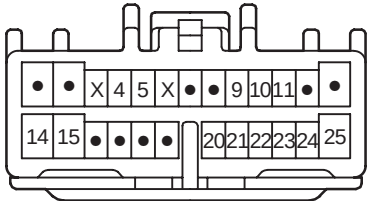
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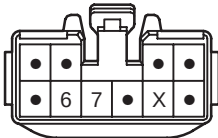
R13



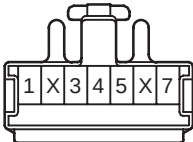
R14



T5 GRAY



W6



# RADIO AND PLAYER (LHD)

## SERVICE HINTS

### R2 (A) RADIO AND PLAYER

- (A) 1-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position
- (A) 4-GROUND : Always approx. **12** volts
- (A) 2-GROUND : Always continuity

### S10 (C) STEREO COMPONENT AMPLIFIER

- (C) 4-GROUND : Always approx. **12** volts
- (C) 7-GROUND : Always continuity

## ○ : PARTS LOCATION

| Code | See Page | Code |   | See Page | Code |   | See Page |
|------|----------|------|---|----------|------|---|----------|
| A38  | 76 (LHD) | R2   | A | 74 (LHD) | S10  | C | 74 (LHD) |
| C5   | 72 (LHD) | R3   | B | 74 (LHD) | S11  | D | 74 (LHD) |
| F9   | 76 (LHD) | R4   | C | 74 (LHD) | T8   | A | 78 (LHD) |
| F10  | 76 (LHD) | R15  |   | 78 (LHD) | T9   | B | 78 (LHD) |
| J19  | 74 (LHD) | R16  |   | 78 (LHD) | W7   |   | 78 (LHD) |
| M3   | 74 (LHD) | S8   | A | 74 (LHD) |      |   |          |
| N3   | 78 (LHD) | S9   | B | 74 (LHD) |      |   |          |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

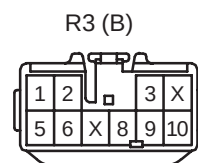
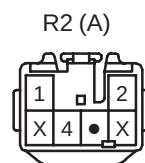
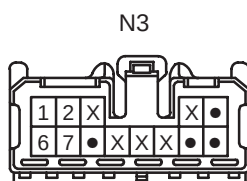
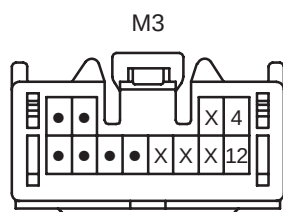
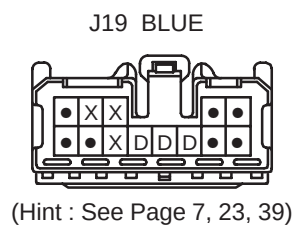
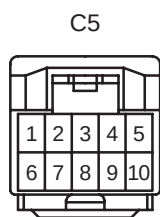
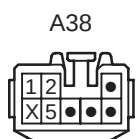
| Code | See Page | Junction Block and Wire Harness (Connector Location)                                   |
|------|----------|----------------------------------------------------------------------------------------|
| 1C   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)                            |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                                        |
| 2H   | 61 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)                                    |
| 3A   | 62       | Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Reinforcement Center) |
| 3D   |          |                                                                                        |
| 3G   | 63       |                                                                                        |

## □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

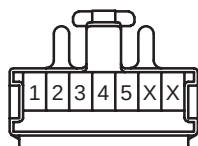
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                   |
|------|-----------|------------------------------------------------------------------------------|
| IB1  | 98 (LHD)  | Front Door LH Wire and Cowl Wire (Left Kick Panel)                           |
| IC2  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                              |
| II4  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)            |
| IJ2  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)           |
| IJ3  |           |                                                                              |
| IK1  | 100 (LHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                          |
| IL1  | 100 (LHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                             |
| IL2  |           |                                                                              |
| IL3  |           |                                                                              |
| IM1  | 100 (LHD) | Instrument Panel Wire and Floor No.1 Wire (Front RH Side of the Shift Lever) |
| BA1  | 102 (LHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)           |
| BB1  | 102 (LHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)           |

## ▽ : GROUND POINTS

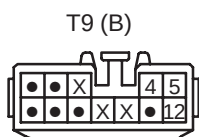
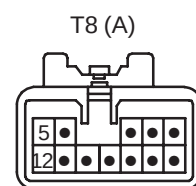
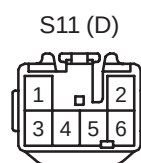
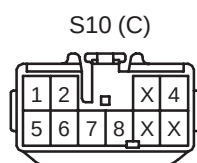
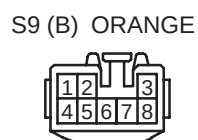
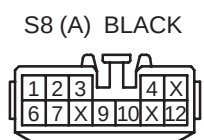
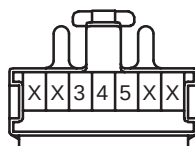
| Code | See Page | Ground Points Location    |
|------|----------|---------------------------|
| IH   | 98 (LHD) | Instrument Panel Brace RH |



(w/ LEXUS Navigation System) R4 (C)



(w/o LEXUS Navigation System) R4 (C)





# RADIO AND PLAYER (RHD)

## SERVICE HINTS

### R2 (A) RADIO AND PLAYER

- (A) 1-GROUND : Approx. **12** volts with ignition SW at **ACC** or **ON** position
- (A) 4-GROUND : Always approx. **12** volts
- (A) 2-GROUND : Always continuity

### S10 (C) STEREO COMPONENT AMPLIFIER

- (C) 4-GROUND : Always approx. **12** volts
- (C) 7-GROUND : Always continuity

## ○ : PARTS LOCATION

| Code | See Page | Code |   | See Page | Code |   | See Page |
|------|----------|------|---|----------|------|---|----------|
| A38  | 90 (RHD) | R2   | A | 88 (RHD) | S10  | C | 88 (RHD) |
| C5   | 86 (RHD) | R3   | B | 88 (RHD) | S11  | D | 88 (RHD) |
| F9   | 90 (RHD) | R4   | C | 88 (RHD) | T8   | A | 92 (RHD) |
| F10  | 90 (RHD) | R15  |   | 92 (RHD) | T9   | B | 92 (RHD) |
| J40  | 88 (RHD) | R16  |   | 92 (RHD) | W7   |   | 92 (RHD) |
| M3   | 88 (RHD) | S8   | A | 88 (RHD) |      |   |          |
| N3   | 92 (RHD) | S9   | B | 88 (RHD) |      |   |          |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)            |
|------|----------|------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left) |

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

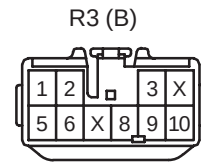
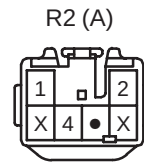
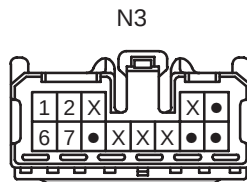
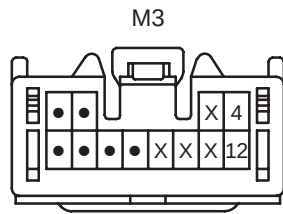
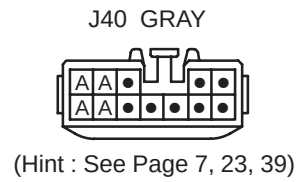
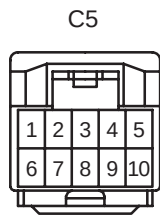
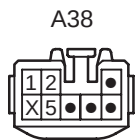
| Code | See Page | Junction Block and Wire Harness (Connector Location)                                   |
|------|----------|----------------------------------------------------------------------------------------|
| 1C   | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel)                           |
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                                       |
| 2H   | 61 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)                                     |
| 3A   | 62       | Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Reinforcement Center) |
| 3G   | 63       |                                                                                        |
| 3H   |          |                                                                                        |

## □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

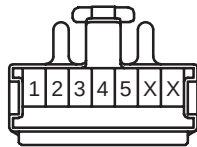
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                   |
|------|-----------|------------------------------------------------------------------------------|
| IA1  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)            |
| IB1  | 108 (RHD) | Front Door LH Wire and Cowl Wire (Left Kick Panel)                           |
| ID2  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)          |
| ID3  |           |                                                                              |
| IG1  | 108 (RHD) | Instrument Panel Wire and Floor No.1 Wire (Front LH Side of the Shift Lever) |
| IL1  | 110 (RHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                          |
| IM1  | 110 (RHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                             |
| IM2  |           |                                                                              |
| IM3  |           |                                                                              |
| BA1  | 112 (RHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)           |
| BB1  | 112 (RHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)           |

## ▽ : GROUND POINTS

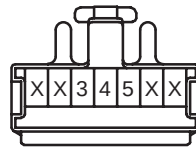
| Code | See Page  | Ground Points Location    |
|------|-----------|---------------------------|
| IH   | 108 (RHD) | Instrument Panel Brace LH |



(w/ LEXUS Navigation System) R4 (C)



(w/o LEXUS Navigation System) R4 (C)



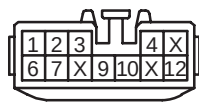
R15



R16



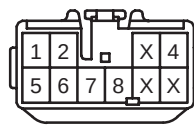
S8 (A) BLACK



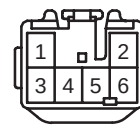
S9 (B) ORANGE



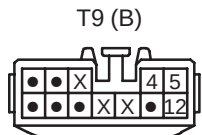
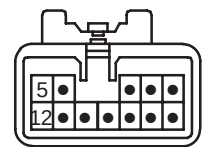
S10 (C)



S11 (D)



T8 (A)



# REMOTE CONTROL MIRROR (LHD)

## SYSTEM OUTLINE

### REMOTE CONTROL MIRROR OPERATION

When the ignition SW is turned to the **ACC** or **ON** position, the outer mirrors can be operated. When the remote control mirror SW is operated, the signal is input to body ECU No.2 and the outer mirror is adjusted to the desired position through communication control of the body ECU and door ECU etc.

In the remote control mirror system, the position sensor detects the number of rotations of each motor (Movement amount of each mirror) and inputs it to the ECU. This makes it possible to store and recall the outer mirror position using the position memory SW. The outer mirror position is stored and recalled through communication control of the body ECU and door ECU etc.

## SERVICE HINTS

### R7 REMOTE CONTROL MIRROR SW

- 8-9 : Continuity with select SW at right side
  - : Approx. **100**  $\Omega$  with select SW at left side
- 7-9 : Approx. **100**  $\Omega$  with operation SW at up side
  - : Approx. **250**  $\Omega$  with operation SW at right side
  - : Approx. **470**  $\Omega$  with operation SW at down side
  - : Approx. **800**  $\Omega$  with operation SW at left side



## : PARTS LOCATION

| Code | See Page   | Code | See Page   | Code | See Page |
|------|------------|------|------------|------|----------|
| A16  | 72 (LHD)   | E5   | 68 (LHD)   | J16  | 74 (LHD) |
| B5   | A 72 (LHD) | F11  | A 76 (LHD) | J18  | 74 (LHD) |
| B6   | A 72 (LHD) | F12  | B 76 (LHD) | M2   | 74 (LHD) |
| C12  | 72 (LHD)   | F13  | C 76 (LHD) | R7   | 74 (LHD) |
| D18  | A 76 (LHD) | J7   | 74 (LHD)   | R17  | 78 (LHD) |
| D19  | B 76 (LHD) | J8   | 74 (LHD)   | R18  | 78 (LHD) |
| D20  | C 76 (LHD) | J10  | 74 (LHD)   | T5   | 74 (LHD) |
| D21  | 76 (LHD)   | J13  | 74 (LHD)   |      |          |



## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |



## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)            |
|------|----------|-----------------------------------------------------------------|
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
| 1G   | 59 (LHD) |                                                                 |
| 1H   |          |                                                                 |
| 2B   | 60 (LHD) | Engine Room Main Wire and Passenger Side J/B (Right Kick Panel) |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)             |
| 2G   | 61 (LHD) |                                                                 |
| 2H   |          |                                                                 |



## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)             |
|------|-----------|------------------------------------------------------------------------|
| IB1  | 98 (LHD)  | Front Door LH Wire and Cowl Wire (Left Kick Panel)                     |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column) |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)     |
| IK1  | 100 (LHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                    |



## : GROUND POINTS

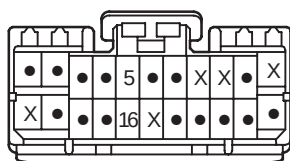
| Code | See Page | Ground Points Location       |
|------|----------|------------------------------|
| IF   | 98 (LHD) | Left Kick Panel              |
| II   | 98 (LHD) | Right Side of the Cowl Panel |



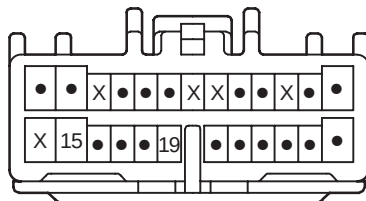
## : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|----------|---------------------------------|
| I6   | 100 (LHD) | Cowl Wire                       |      |          |                                 |

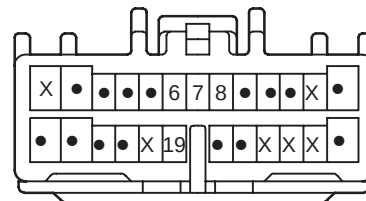
A16



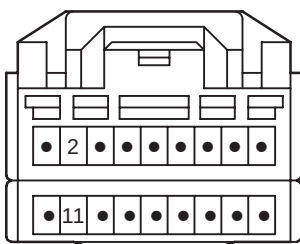
B5 (A)



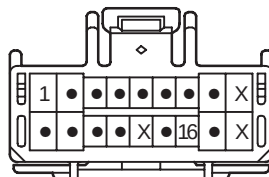
B6 (A)



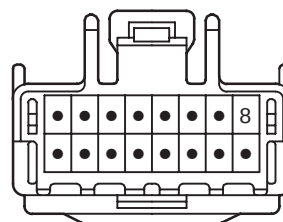
C12



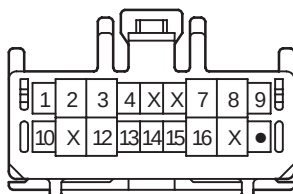
D18 (A) GRAY



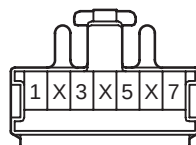
D19 (B) GRAY



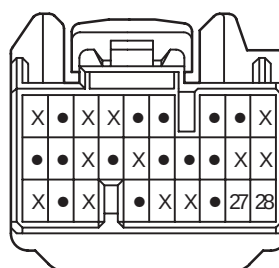
D20 (C) GRAY



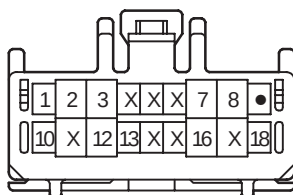
D21 BLUE



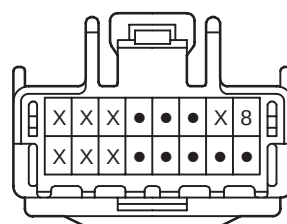
E5



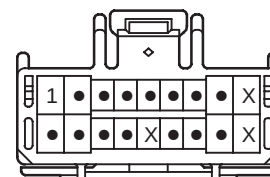
F11 (A) GRAY



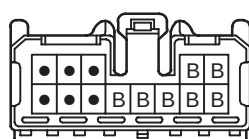
F12 (B) GRAY



F13 (C) GRAY

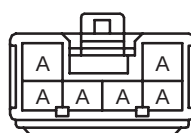


J7 GRAY



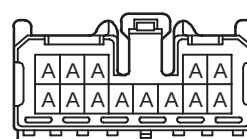
(Hint : See Page 7, 23, 39)

J8



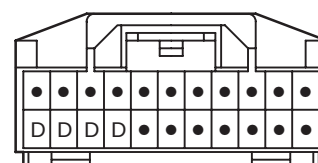
(Hint : See Page 7, 23, 39)

J10 ORANGE



(Hint : See Page 7, 23, 39)

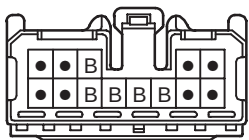
J13



(Hint : See Page 7, 23, 39)

# REMOTE CONTROL MIRROR (LHD)

J16



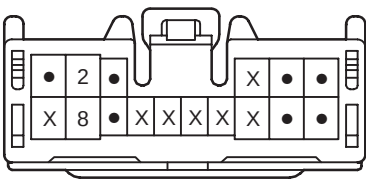
(Hint : See Page 7, 23, 39)

J18

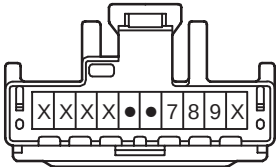


(Hint : See Page 7, 23, 39)

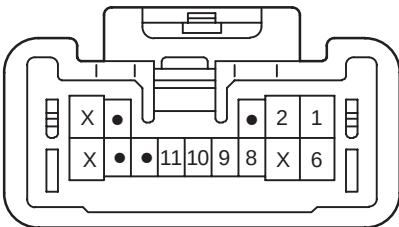
M2 BLUE



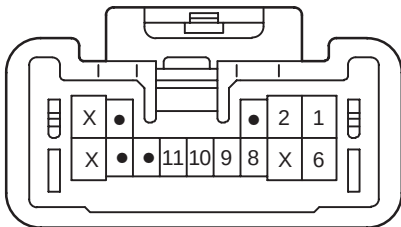
R7 BLACK



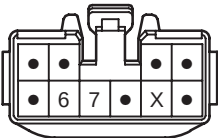
R17



R18



T5 GRAY



# REMOTE CONTROL MIRROR (RHD)

## SYSTEM OUTLINE

### REMOTE CONTROL MIRROR OPERATION

When the ignition SW is turned to the **ACC** or **ON** position, the outer mirrors can be operated. When the remote control mirror SW is operated, the signal is input to body ECU No.2 and the outer mirror is adjusted to the desired position through communication control of the body ECU and door ECU etc.

In the remote control mirror system, the position sensor detects the number of rotations of each motor (Movement amount of each mirror) and inputs it to the ECU. This makes it possible to store and recall the outer mirror position using the position memory SW. The outer mirror position is stored and recalled through communication control of the body ECU and door ECU etc.

## SERVICE HINTS

### R7 REMOTE CONTROL MIRROR SW

- 8-9 : Continuity with select SW at right side
  - : Approx. **100**  $\Omega$  with select SW at left side
- 7-9 : Approx. **100**  $\Omega$  with operation SW at up side
  - : Approx. **250**  $\Omega$  with operation SW at right side
  - : Approx. **470**  $\Omega$  with operation SW at down side
  - : Approx. **800**  $\Omega$  with operation SW at left side

## : PARTS LOCATION

| Code | See Page   | Code | See Page   | Code | See Page |
|------|------------|------|------------|------|----------|
| A16  | 86 (RHD)   | E5   | 82 (RHD)   | J41  | 88 (RHD) |
| B5   | A 86 (RHD) | F11  | A 90 (RHD) | J42  | 88 (RHD) |
| B6   | A 86 (RHD) | F12  | B 90 (RHD) | M2   | 88 (RHD) |
| C12  | 86 (RHD)   | F13  | C 90 (RHD) | R7   | 88 (RHD) |
| D18  | A 90 (RHD) | J31  | 88 (RHD)   | R17  | 92 (RHD) |
| D19  | B 90 (RHD) | J32  | 88 (RHD)   | R18  | 92 (RHD) |
| D20  | C 90 (RHD) | J37  | 88 (RHD)   | T5   | 88 (RHD) |
| D21  | 90 (RHD)   | J38  | 88 (RHD)   |      |          |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)            |
|------|----------|------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left) |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)           |
|------|----------|----------------------------------------------------------------|
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)               |
| 1G   | 59 (RHD) |                                                                |
| 1H   |          |                                                                |
| 2B   | 60 (RHD) | Engine Room Main Wire and Passenger Side J/B (Left Kick Panel) |
| 2F   | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)             |
| 2G   | 61 (RHD) |                                                                |
| 2H   |          |                                                                |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

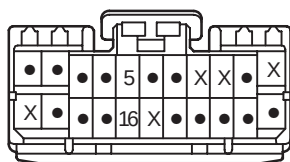
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)              |
|------|-----------|-------------------------------------------------------------------------|
| IB1  | 108 (RHD) | Front Door LH Wire and Cowl Wire (Left Kick Panel)                      |
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)     |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |
| IL1  | 110 (RHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                     |



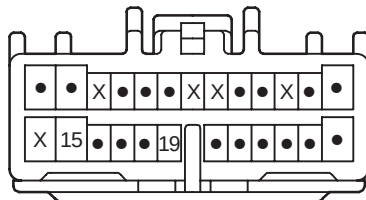
## : GROUND POINTS

| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| IF   | 108 (RHD) | Left Kick Panel              |
| IG   | 108 (RHD) | Behind the Combination Meter |
| II   | 108 (RHD) | Cowl Side Panel RH           |

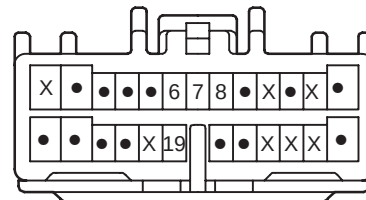
A16



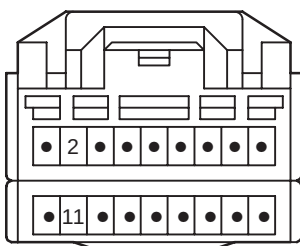
B5 (A)



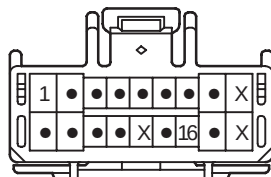
B6 (A)



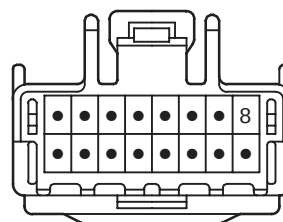
C12



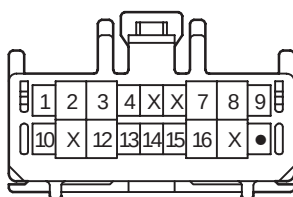
D18 (A) GRAY



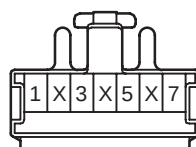
D19 (B) GRAY



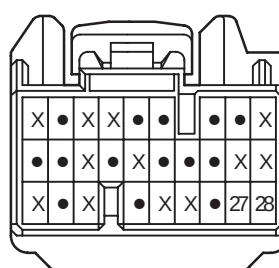
D20 (C) GRAY



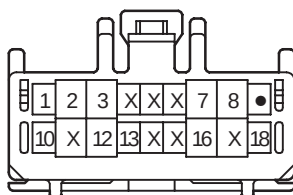
D21 BLUE



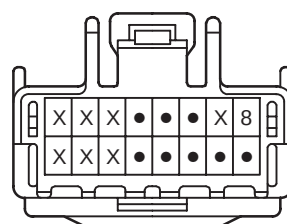
E5



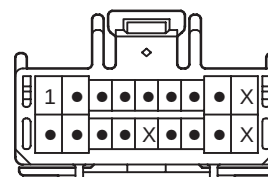
F11 (A) GRAY



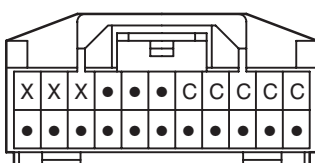
F12 (B) GRAY



F13 (C) GRAY

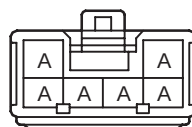


J31



(Hint : See Page 7, 23, 39)

J32



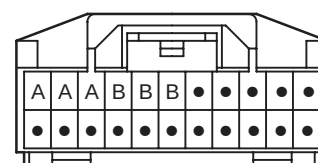
(Hint : See Page 7, 23, 39)

J37



(Hint : See Page 7, 23, 39)

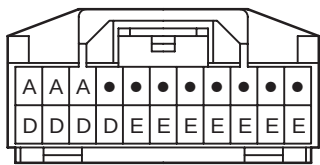
J38



(Hint : See Page 7, 23, 39)

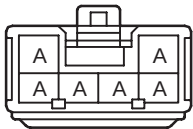
# REMOTE CONTROL MIRROR (RHD)

J41



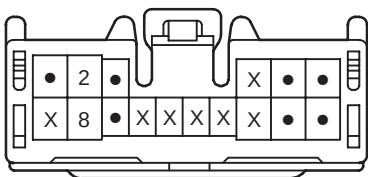
(Hint : See Page 7, 23, 39)

J42

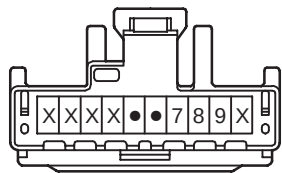


(Hint : See Page 7, 23, 39)

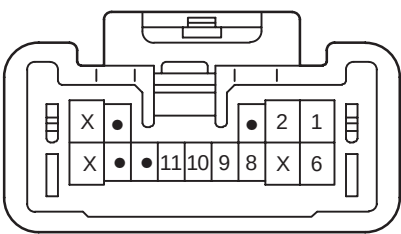
M2 BLUE



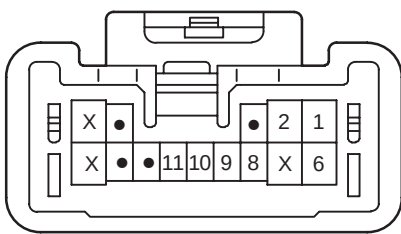
R7 BLACK



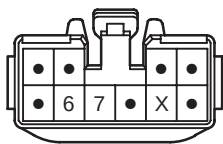
R17



R18



T5 GRAY





# RADIATOR FAN AND CONDENSER FAN

## SYSTEM OUTLINE

### FAN MOTOR OPERATION

When the ignition SW is turned on, the current from the **IGN** fuse flows to the FAN NO.1 relay (Coil side) and the FAN NO.2 relay (Coil side) to **TERMINAL 3** of the A/C single pressure SW to **TERMINAL 2** to **TERMINAL 2** of the water temp. SW to **TERMINAL 1** to **GROUND**, and the FAN NO.1 relay is turned off and the FAN NO.2 relay is turned on.

#### \* Low speed operation

When the ignition SW is turned on and the A/C is activated, current flows from the A/C COMP relay (Point side) to the FAN NO.3 relay (Coil side) to **GROUND**, and the FAN NO.3 relay is turned on. As a result, current from the **CDS FAN** fuse flows to **TERMINAL 2** of the A/C condenser fan motor to **TERMINAL 1** to the FAN NO.2 relay (Point side) to the FAN NO.3 relay (Point side) to **TERMINAL 2** of the radiator fan motor to **TERMINAL 1** to **GROUND**, rotating both of the fan motors at low speed.

If the engine coolant temperature is approx. **90°C (194°F)** or less, and the refrigerant pressure is approx. **15.5 kgf/cm<sup>2</sup> (1520 kpa, 220.4 psi)** or less, both the water temp. SW and the A/C signal pressure SW are closed, so that the FAN NO.1 relay is turned off and the FAN NO.2 relay is turned on. As a result, both of the fan motor operate at low speed.

#### \* High speed operation

When, during A/C operation, the refrigerant pressure becomes higher than ordinary level (Approx. **15.5 kgf/cm<sup>2</sup> (220.4 psi, 1520 kpa)**), the A/C single pressure SW is turned off. As a result, the FAN NO.1 relay is turned on and FAN NO.2 relay is turned off, and the current flows from the **RDI FAN** fuse to FAN NO.1 relay (Point side) to **TERMINAL 2** of the radiator fan motor to **TERMINAL 1** to **GROUND**, and current from the **CDS FAN** fuse flows to **TERMINAL 2** of the A/C condenser fan motor to **TERMINAL 1** to the FAN NO.2 relay (Point side) to **GROUND**, rotating both of the fan motors in parallel, thus causing the fan motors to operate at high speed.

Note that, because the current flows in the same manner even if the coolant temperature is approx. **90°C (194°F)** or higher, the fan motors still operate at high speed.

## SERVICE HINTS

### A4 A/C SINGLE PRESSURE SW

2-3 : Open above approx. **15.5 kgf/cm<sup>2</sup> (220.4 psi, 1520 kpa)**  
Close below approx. **12.5 kgf/cm<sup>2</sup> (177.7 psi, 1225.8 kpa)**

### W4 WATER TEMP. SW

1-2 : Open above approx. **90°C (194°F)**  
Closed below approx. **83°C (181.4°F)**

## ○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| A2   | 68 (LHD) | J5   | 70 (LHD) | R1   | 70 (LHD) |
|      | 82 (RHD) | J15  | 74 (LHD) |      | 84 (RHD) |
| A4   | 68 (LHD) | J29  | 84 (RHD) | W4   | 70 (LHD) |
|      | 82 (RHD) | J36  | 88 (RHD) |      | 84 (RHD) |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |
| 3    | 56       | Engine Room No.3 R/B (Engine Compartment Left)  |

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|------------------------------------------------------|
| 1G   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)      |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)     |

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)          |
|------|-----------|---------------------------------------------------------------------|
| EB1  | 96 (LHD)  | Cowl Wire and Relay Block Wire (Inside of the Engine Room No.3 R/B) |
|      | 106 (RHD) |                                                                     |
| EB2  | 96 (LHD)  |                                                                     |
|      | 106 (RHD) |                                                                     |
| IA1  | 98 (LHD)  | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)      |
|      | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)   |
| IA2  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)   |
| IC1  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                     |
|      | 108 (RHD) |                                                                     |
| II2  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)   |

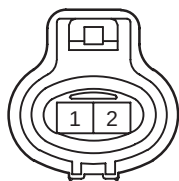
 : GROUND POINTS

| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EB   | 96 (LHD)  | Left Fender                        |
|      | 106 (RHD) |                                    |
| EE   | 96 (LHD)  | Under the ABS & TRC & VSC Actuator |
|      | 106 (RHD) |                                    |

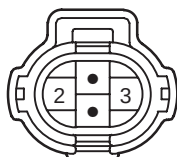
 : SPLICE POINTS

| Code | See Page | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|----------|---------------------------------|------|-----------|---------------------------------|
| E4   | 96 (LHD) | Cowl Wire                       | E4   | 106 (RHD) | Cowl Wire                       |

A2 GRAY



A4 BLACK

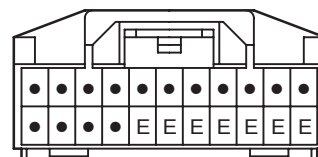


J5 BLUE



(Hint : See Page 7, 23, 39)

J15



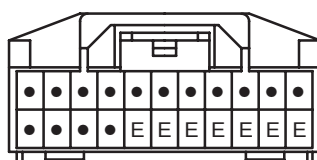
(Hint : See Page 7, 23, 39)

J29 BLUE



(Hint : See Page 7, 23, 39)

J36



(Hint : See Page 7, 23, 39)

R1 GRAY



W4



## SERVICE HINTS

### REAR FOG LIGHT RELAY

5-3 : Closed with rear fog light SW on, light control SW at **TAIL** or **HEAD** position

### : PARTS LOCATION

| Code |   | See Page | Code |          | See Page | Code     |  | See Page |
|------|---|----------|------|----------|----------|----------|--|----------|
| B6   | A | 72 (LHD) | J15  | 74 (LHD) | R6       | 74 (LHD) |  |          |
| J8   |   | 74 (LHD) | J18  | 74 (LHD) | R9       | 78 (LHD) |  |          |
| J10  |   | 74 (LHD) | J21  | 78 (LHD) | R11      | 78 (LHD) |  |          |
| J14  |   | 74 (LHD) | R5   | 74 (LHD) |          |          |  |          |

### : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|------------------------------------------------------|
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)      |
| 1G   | 59 (LHD) |                                                      |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)  |

### : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page | Joining Wire Harness and Wire Harness (Connector Location) |
|------|----------|------------------------------------------------------------|
| IC3  | 98 (LHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)            |

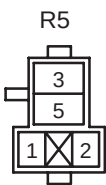
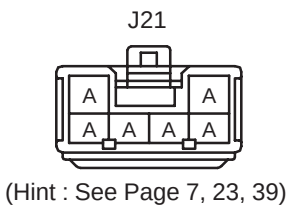
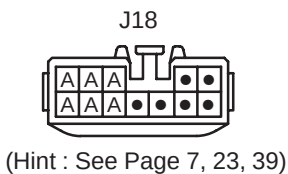
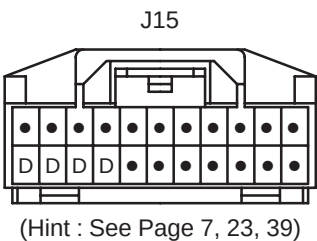
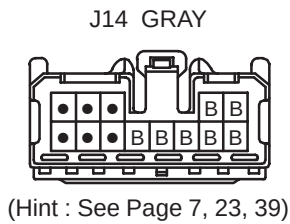
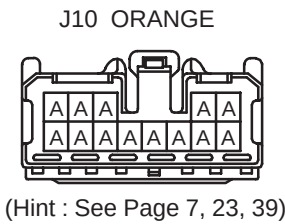
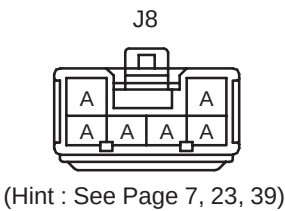
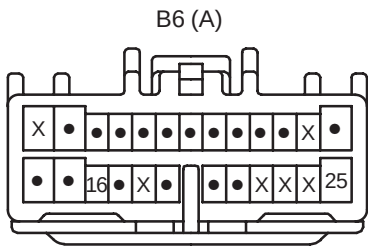
### : GROUND POINTS

| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| IF   | 98 (LHD)  | Left Kick Panel              |
| II   | 98 (LHD)  | Right Side of the Cowl Panel |
| BK   | 102 (LHD) | Quarter Panel LH             |

### : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| B4   | 102 (LHD) | Floor No.2 Wire                 | B6   | 102 (LHD) | Floor No.2 Wire                 |

# REAR FOG LIGHT (LHD EUROPE)



## SERVICE HINTS

### REAR FOG LIGHT RELAY

5-3 : Closed with rear fog light SW on, light control SW at **TAIL** or **HEAD** position

### : PARTS LOCATION

| Code |   | See Page | Code | See Page | Code | See Page |
|------|---|----------|------|----------|------|----------|
| B6   | A | 86 (RHD) | J41  | 88 (RHD) | R6   | 88 (RHD) |
| J32  |   | 88 (RHD) | J42  | 88 (RHD) | R9   | 92 (RHD) |
| J37  |   | 88 (RHD) | J44  | 90 (RHD) | R11  | 92 (RHD) |

### : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location) |
|------|----------|-------------------------------------|
| 5    | 57 (RHD) | Driver Side R/B (Right Kick Panel)  |

### : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|------------------------------------------------------|
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)     |
| 1G   | 59 (RHD) |                                                      |
| 2F   | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)   |

### : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location) |
|------|-----------|------------------------------------------------------------|
| IC3  | 108 (RHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)            |

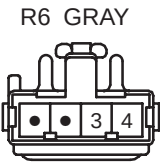
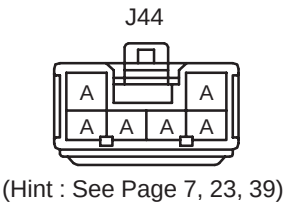
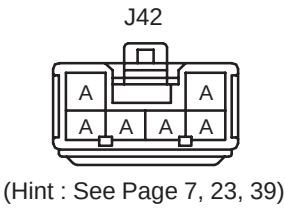
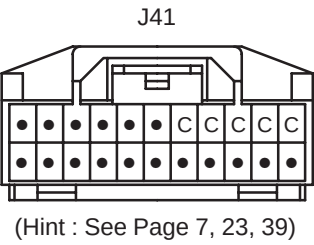
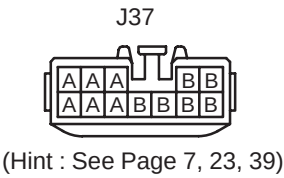
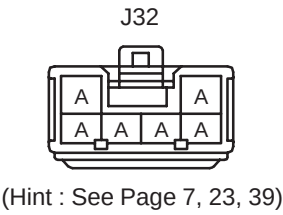
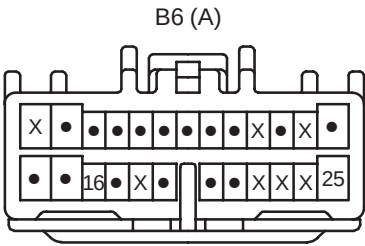
### : GROUND POINTS

| Code | See Page  | Ground Points Location |
|------|-----------|------------------------|
| IF   | 108 (RHD) | Left Kick Panel        |
| II   | 108 (RHD) | Cowl Side Panel RH     |
| BK   | 112 (RHD) | Quarter Panel LH       |

### : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| B4   | 112 (RHD) | Floor No.2 Wire                 | B6   | 112 (RHD) | Floor No.2 Wire                 |

# REAR FOG LIGHT (RHD)



## SERVICE HINTS

### DEFOGGER RELAY

1-2 : Closed with ignition SW at **ON** position and defogger SW on

### : PARTS LOCATION

| Code   | See Page | Code    | See Page | Code | See Page |
|--------|----------|---------|----------|------|----------|
| A16    | 72 (LHD) | J10     | 74 (LHD) | N5   | 78 (LHD) |
|        | 86 (RHD) | J13   A | 74 (LHD) |      | 92 (RHD) |
| B5   A | 72 (LHD) | J18     | 74 (LHD) | R17  | 78 (LHD) |
|        | 86 (RHD) | J31   B | 88 (RHD) |      | 92 (RHD) |
| E5     | 68 (LHD) | J32     | 88 (RHD) | R18  | 78 (LHD) |
|        | 82 (RHD) | M2      | 74 (LHD) |      | 92 (RHD) |
| J8     | 74 (LHD) |         | 88 (RHD) |      |          |

### : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |
| 4    | 57 (LHD) | Passenger Side R/B (Right Kick Panel)           |
|      | 57 (RHD) | Passenger Side R/B (Left Kick Panel)            |

### : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)            |
|------|----------|-----------------------------------------------------------------|
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                |
| 2A   | 60 (LHD) | Engine Room Main Wire and Passenger Side J/B (Right Kick Panel) |
|      | 60 (RHD) | Engine Room Main Wire and Passenger Side J/B (Left Kick Panel)  |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)             |
|      | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)              |
| 2G   | 61 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)             |
|      | 61 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)              |
| 2H   | 61 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)             |
|      | 61 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)              |
| 2J   | 61 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)             |
|      | 61 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)              |

### : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

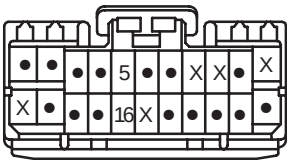
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)          |
|------|-----------|---------------------------------------------------------------------|
| IB1  | 98 (LHD)  | Front Door LH Wire and Cowl Wire (Left Kick Panel)                  |
|      | 108 (RHD) |                                                                     |
| IC2  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                     |
|      | 108 (RHD) |                                                                     |
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit) |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)  |
| IK1  | 100 (LHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                 |
| IL1  | 110 (RHD) |                                                                     |

# REAR WINDOW DEFOGGER AND MIRROR HEATER

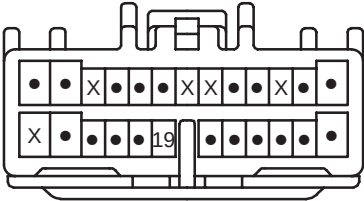
## : GROUND POINTS

| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| EB   | 96 (LHD)  | Left Fender                  |
|      | 106 (RHD) |                              |
| IF   | 98 (LHD)  | Left Kick Panel              |
|      | 108 (RHD) |                              |
| IG   | 108 (RHD) | Behind the Combination Meter |
| II   | 98 (LHD)  | Right Side of the Cowl Panel |
|      | 108 (RHD) | Cowl Side Panel RH           |

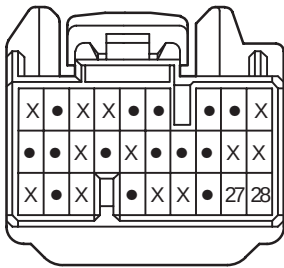
A16



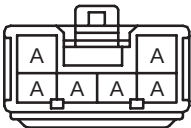
B5 (A)



E5

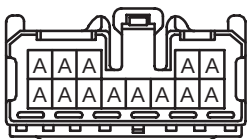


J8



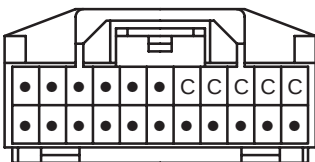
(Hint : See Page 7, 23, 39)

J10 ORANGE



(Hint : See Page 7, 23, 39)

J13 (A)



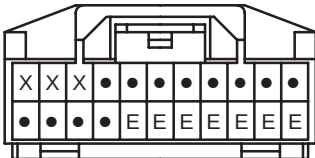
(Hint : See Page 7, 23, 39)

J18



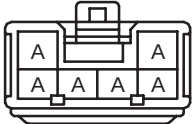
(Hint : See Page 7, 23, 39)

J31 (B)



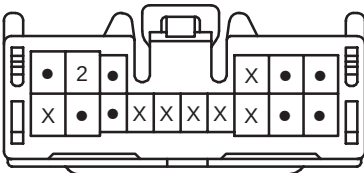
(Hint : See Page 7, 23, 39)

J32



(Hint : See Page 7, 23, 39)

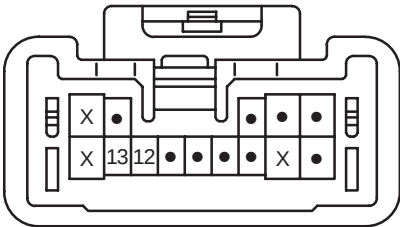
M2 BLUE



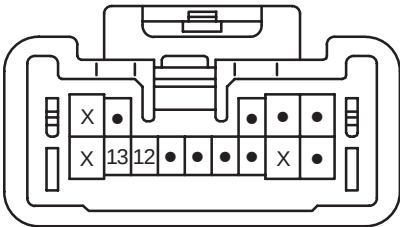
N5



R17



R18





# SEAT HEATER

## SERVICE HINTS

### S4 SEAT HEATER SW

6-GROUND : Approx. 12 volts with ignition SW at **ON** or **ST** position

4-GROUND : Always continuity

## : PARTS LOCATION

| Code | See Page | Code     | See Page | Code     | See Page |
|------|----------|----------|----------|----------|----------|
| J7   | A        | 74 (LHD) | J32      | 88 (RHD) | S16      |
| J8   |          | 74 (LHD) | J37      | 88 (RHD) | 80 (LHD) |
| J10  |          | 74 (LHD) | J41      | B        | 94 (RHD) |
| J14  |          | 74 (LHD) | J42      | 88 (RHD) | S17      |
| J16  | A        | 74 (LHD) | J46      | 94 (RHD) | 80 (LHD) |
| J23  |          | 80 (LHD) | J47      | B        | 94 (RHD) |
| J24  | A        | 80 (LHD) | S4       | 74 (LHD) | S18      |
| J31  | B        | 88 (RHD) |          | 88 (RHD) | 94 (RHD) |
|      |          |          |          |          | S19      |
|      |          |          |          |          | 80 (LHD) |
|      |          |          |          |          | 94 (RHD) |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)            |
|------|----------|-----------------------------------------------------------------|
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                |
| 1G   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                |
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                |
| 2A   | 60 (LHD) | Engine Room Main Wire and Passenger Side J/B (Right Kick Panel) |
|      | 60 (RHD) | Engine Room Main Wire and Passenger Side J/B (Left Kick Panel)  |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)             |
|      | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)              |
| 2G   | 61 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)             |
|      | 61 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)              |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

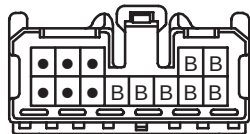
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|-----------|---------------------------------------------------------------------------|
| IC2  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                           |
|      | 108 (RHD) |                                                                           |
| IL2  | 100 (LHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                          |
| IM2  | 110 (RHD) |                                                                           |
| BC1  | 104 (LHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)          |
|      | 114 (RHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Front Passenger's Seat) |
| BD1  | 104 (LHD) | Floor No.1 Wire and Front Seat RH Wire (Under the Front Passenger's Seat) |
|      | 114 (RHD) | Floor No.1 Wire and Front Seat RH Wire (Under the Driver's Seat)          |



## : GROUND POINTS

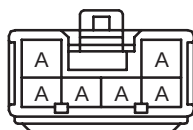
| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| EB   | 96 (LHD)  | Left Fender                   |
| IF   | 98 (LHD)  | Left Kick Panel               |
|      | 108 (RHD) |                               |
| II   | 98 (LHD)  | Right Side of the Cowl Panel  |
|      | 108 (RHD) | Cowl Side Panel RH            |
| BJ   | 102 (LHD) | Rear Floor Partition Panel LH |
|      | 112 (RHD) |                               |
| BL   | 102 (LHD) | Rear Floor Partition Panel RH |
|      | 112 (RHD) |                               |

J7 (A) GRAY



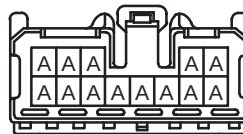
(Hint : See Page 7, 23, 39)

J8



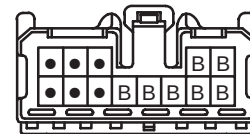
(Hint : See Page 7, 23, 39)

J10 ORANGE



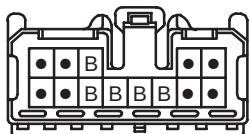
(Hint : See Page 7, 23, 39)

J14 GRAY



(Hint : See Page 7, 23, 39)

J16 (A)



(Hint : See Page 7, 23, 39)

J23



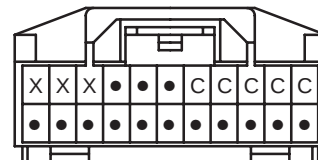
(Hint : See Page 7, 23, 39)

J24 (A)



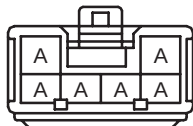
(Hint : See Page 7, 23, 39)

J31 (B)



(Hint : See Page 7, 23, 39)

J32



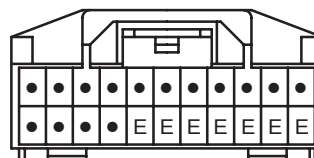
(Hint : See Page 7, 23, 39)

J37



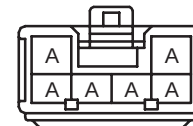
(Hint : See Page 7, 23, 39)

J41 (B)



(Hint : See Page 7, 23, 39)

J42



(Hint : See Page 7, 23, 39)

J46



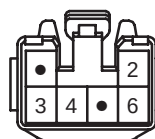
(Hint : See Page 7, 23, 39)

J47 (B)

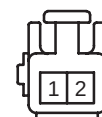


(Hint : See Page 7, 23, 39)

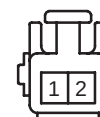
S4



S16 GRAY



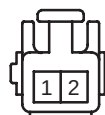
S17 GRAY



S18 GRAY



S19 GRAY



# STARTING AND IGNITION

## SERVICE HINTS

### I12 IGNITION SW

7-6 : Closed with ignition SW at **ON** or **ST** position

7-8 : Closed with ignition SW at **ST** position

### N1 NEUTRAL START SW

6-5 : Closed with A/T shift lever in **P** or **N** position

### S2 (A), S3 (B) STARTER

Points closed with neutral start SW at **P** or **N** position and ignition SW at **ST** position

## ○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| C3   | 68 (LHD) | I4   | 70 (LHD) | J29  | 84 (RHD) |
|      | 82 (RHD) |      | 84 (RHD) | J39  | 88 (RHD) |
| E2   | 68 (LHD) | I12  | 72 (LHD) | N1   | 70 (LHD) |
|      | 82 (RHD) |      | 86 (RHD) |      | 84 (RHD) |
| E5   | 68 (LHD) | J1   | 70 (LHD) | N2   | 70 (LHD) |
|      | 82 (RHD) | J3   | 70 (LHD) |      | 84 (RHD) |
| I1   | 70 (LHD) | J4   | 70 (LHD) | S2   | 70 (LHD) |
|      | 84 (RHD) | J5   | 70 (LHD) |      | 84 (RHD) |
| I2   | 70 (LHD) | J16  | 74 (LHD) | S3   | 70 (LHD) |
|      | 84 (RHD) | J25  | 84 (RHD) |      | 84 (RHD) |
| I3   | 70 (LHD) | J27  | 84 (RHD) |      |          |
|      | 84 (RHD) | J28  | 84 (RHD) |      |          |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
|      | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|------------------------------------------------------|
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)      |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)     |

## □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)        |
|------|-----------|-------------------------------------------------------------------|
| EA2  | 96 (LHD)  | Engine Wire and Cowl Wire (Inside of the ECU Box)                 |
|      | 106 (RHD) |                                                                   |
| EA3  | 96 (LHD)  |                                                                   |
|      | 106 (RHD) |                                                                   |
| IA1  | 98 (LHD)  | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)    |
|      | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B) |
| IA2  | 98 (LHD)  | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)    |
|      | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B) |
| II4  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B) |
| IK1  | 110 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)    |

## ▽ : GROUND POINTS

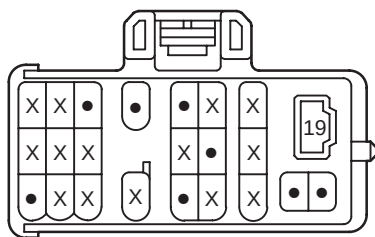
| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| ED   | 96 (LHD)  | Rear Side of the Intake Manifold   |
|      | 106 (RHD) |                                    |
| EE   | 96 (LHD)  | Under the ABS & TRC & VSC Actuator |
|      | 106 (RHD) |                                    |



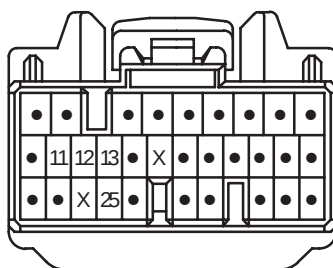
## : SPLICE POINTS

| Code | See Page | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|----------|---------------------------------|------|-----------|---------------------------------|
| E2   | 96 (LHD) | Engine Wire                     | E2   | 106 (RHD) | Engine Wire                     |

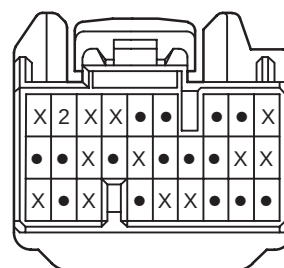
C3 BLACK



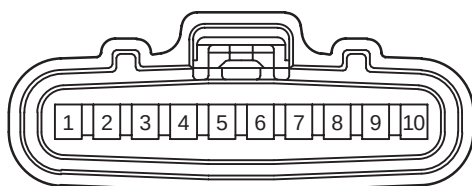
E2 (A)



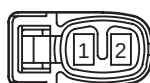
E5 (D)



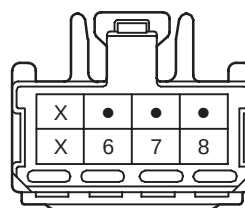
I1 BLACK



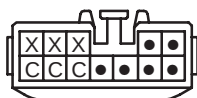
I2, I3, I4 BLACK



I12

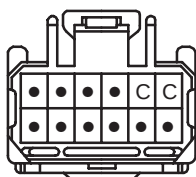


J1 BLACK



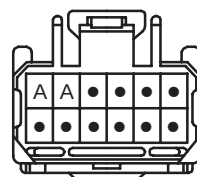
(Hint : See Page 7, 23, 39)

J3 (A)



(Hint : See Page 7, 23, 39)

J4 (B)



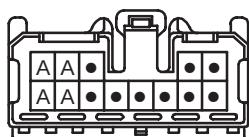
(Hint : See Page 7, 23, 39)

J5 BLUE



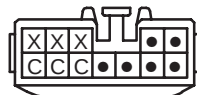
(Hint : See Page 7, 23, 39)

J16



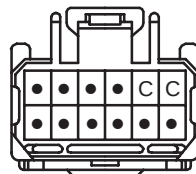
(Hint : See Page 7, 23, 39)

J25 BLACK



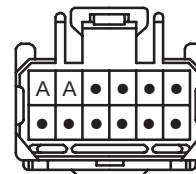
(Hint : See Page 7, 23, 39)

J27 (A)



(Hint : See Page 7, 23, 39)

J28 (B)



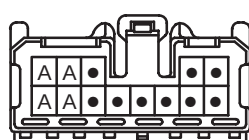
(Hint : See Page 7, 23, 39)

J29 BLUE



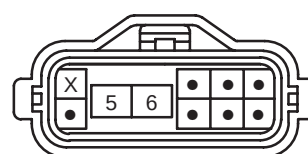
(Hint : See Page 7, 23, 39)

J39



(Hint : See Page 7, 23, 39)

N1 GRAY



N2 GRAY



S2 (A) BLACK



S3 (B)



# STOP LIGHT

## SYSTEM OUTLINE

The current always flows from the **STOP** fuse into **TERMINAL 2** of the stop light SW. If the brake pedal is depressed, the stop lights light up.

### STOP LIGHT DISCONNECTION WARNING

If any stop light wiring is faulty when the brake pedal is depressed with the ignition SW set at ON, the light failure sensor detects a voltage difference and inputs the signal to **TERMINAL 4** of the body ECU No.2. The body ECU No.2 controls the combination meter through the communication to turn on the rear light warning light to warn the driver. The warning light is remained lit until the ignition SW is turned to the **OFF** position.

## SERVICE HINTS

### S12 STOP LIGHT SW

1-2 : Closed with brake pedal depressed

### L4 LIGHT FAILURE SENSOR

9, 10-GROUND : Approx. **12** volts with stop light SW on

8-GROUND : Approx. **12** volts with Ignition SW at **ON** or **ST** position

11-GROUND : Always continuity

## : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| B6   | 72 (LHD) | J8   | 74 (LHD) | L4   | 78 (LHD) |
|      | 86 (RHD) | J18  | 74 (LHD) |      | 90 (RHD) |
| C11  | A        | J20  | 78 (LHD) | R9   | 78 (LHD) |
|      |          | J21  | 78 (LHD) | R10  | 78 (LHD) |
| C12  | B        | J32  | 88 (RHD) |      | 92 (RHD) |
|      |          | J35  | 88 (RHD) | R11  | 78 (LHD) |
| H25  |          | J37  | 88 (RHD) | R12  | 78 (LHD) |
|      |          | J39  | 88 (RHD) |      | 92 (RHD) |
| H26  |          | J42  | 88 (RHD) | S12  | 74 (LHD) |
|      |          | J43  | 90 (RHD) |      | 88 (RHD) |
| J7   | 74 (LHD) | J44  | 90 (RHD) |      |          |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)         |
|------|----------|--------------------------------------------------------------|
| 1D   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)  |
|      | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel) |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1G   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)              |
|------|-----------|-------------------------------------------------------------------------|
| IC1  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                         |
|      | 108 (RHD) |                                                                         |
| IC3  | 98 (LHD)  |                                                                         |
|      | 108 (RHD) |                                                                         |
| IE1  | 98 (LHD)  |                                                                         |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |
| IJ2  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)      |
|      | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |

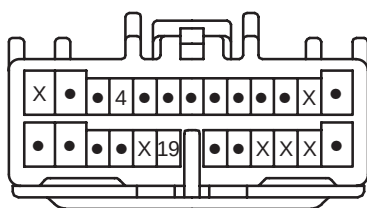
**: GROUND POINTS**

| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| IF   | 98 (LHD)  | Left Kick Panel              |
|      | 108 (RHD) |                              |
| II   | 98 (LHD)  | Right Side of the Cowl Panel |
|      | 108 (RHD) | Cowl Side Panel RH           |
| BK   | 102 (LHD) | Quarter Panel LH             |
|      | 112 (RHD) |                              |

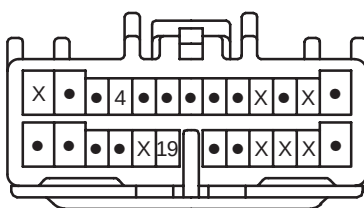
**: SPLICE POINTS**

| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| B4   | 102 (LHD) | Floor No.2 Wire                 | B5   | 102 (LHD) | Floor No.2 Wire                 |
|      | 112 (RHD) |                                 |      | 112 (RHD) |                                 |

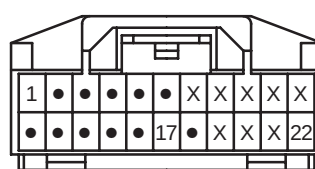
(LHD) B6



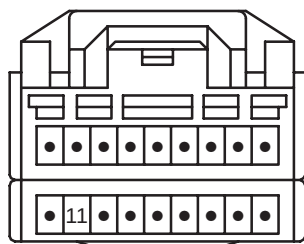
(RHD) B6



C11 (A)



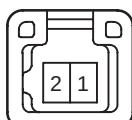
C12 (B)



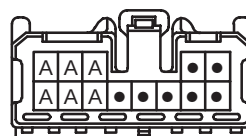
H25



H26

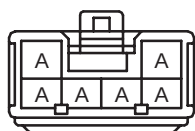


J7 GRAY



(Hint : See Page 7, 23, 39)

J8



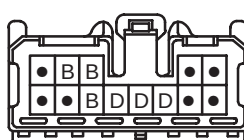
(Hint : See Page 7, 23, 39)

J18



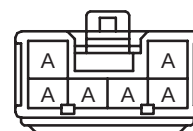
(Hint : See Page 7, 23, 39)

J20 BLUE



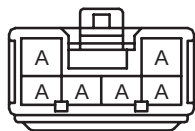
(Hint : See Page 7, 23, 39)

J21



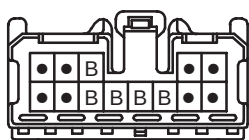
(Hint : See Page 7, 23, 39)

J32



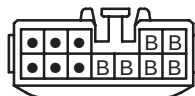
(Hint : See Page 7, 23, 39)

J35



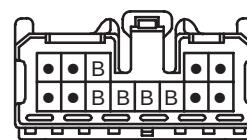
(Hint : See Page 7, 23, 39)

J37



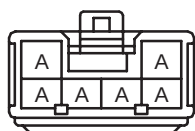
(Hint : See Page 7, 23, 39)

J39



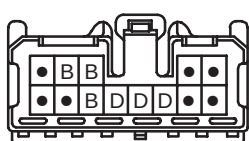
(Hint : See Page 7, 23, 39)

J42



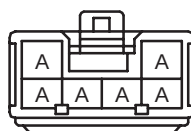
(Hint : See Page 7, 23, 39)

J43 BLUE



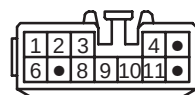
(Hint : See Page 7, 23, 39)

J44



(Hint : See Page 7, 23, 39)

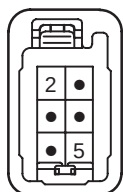
L4



(G.C.C.) R9



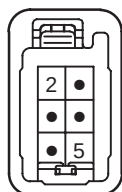
R10



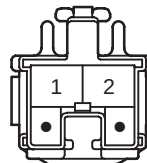
(G.C.C.) R11



R12



S12 BLUE



## SYSTEM OUTLINE

### 1. SHIFT LOCK MECHANISM

If the brake pedal is depressed with the ignition SW set at ON (The stop light SW is on), the shift lock control ECU is activated, allowing the driver to change the shift lever to a position other than the **P** position.

### 2. REVERSE INHIBIT MECHANISM

Changing the shift lever to the **R** position is inhibited by operation of the shift lock control ECU and body ECU No. 2 while the vehicle is travelling forward.

If the vehicle speed is almost 0 km/h, the signal is input to **TERMINAL 8** of the shift lock control ECU through communication control of the body ECU and door ECU etc. , allowing the driver to change the shift lever to the **R** position.

### 3. KEY INTERLOCK MECHANISM

When the ignition SW is turned to the **ACC** or **ON** position and the shift lever is at a position other than the **P** position, the shift lock control ECU is activated to flow the current into the key interlock solenoid. This inhibits to turn the ignition SW from the **ACC** position to the **OFF** position.

## SERVICE HINTS

### S5 SHIFT LOCK CONTROL ECU

4-GROUND : Approx. 12 volts with ignition SW at **ACC** or **ON** position

10-GROUND : Always continuity

## : PARTS LOCATION

| Code |   | See Page |  | Code |   | See Page |  | Code     |   | See Page |  |
|------|---|----------|--|------|---|----------|--|----------|---|----------|--|
| B6   |   | 72 (LHD) |  | J3   | A | 70 (LHD) |  | J32      |   | 88 (RHD) |  |
|      |   | 86 (RHD) |  | J4   | B | 70 (LHD) |  | J35      |   | 88 (RHD) |  |
| E2   | A | 68 (LHD) |  | J8   |   | 74 (LHD) |  | J38      | B | 88 (RHD) |  |
|      |   | 82 (RHD) |  | J10  |   | 74 (LHD) |  | N1       |   | 70 (LHD) |  |
| E3   | B | 68 (LHD) |  | J13  | A | 74 (LHD) |  |          |   | S5       |  |
|      |   | 82 (RHD) |  | J18  |   | 74 (LHD) |  | 74 (LHD) |   |          |  |
| E5   | D | 68 (LHD) |  | J25  |   | 84 (RHD) |  | U1       |   | 88 (RHD) |  |
|      |   | 82 (RHD) |  | J27  | A | 84 (RHD) |  |          |   | 74 (LHD) |  |
| J1   |   | 70 (LHD) |  | J28  | B | 84 (RHD) |  | U1       |   | 88 (RHD) |  |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location) |
|------|----------|------------------------------------------------------|
| 1H   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)      |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)     |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)  |
| 2G   | 61 (LHD) |                                                      |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location) |
|------|-----------|------------------------------------------------------------|
| EA2  | 96 (LHD)  | Engine Wire and Cowl Wire (Inside of the ECU Box)          |
| EA3  | 96 (LHD)  |                                                            |
|      | 106 (RHD) |                                                            |
| EA4  | 96 (LHD)  |                                                            |
|      | 106 (RHD) |                                                            |

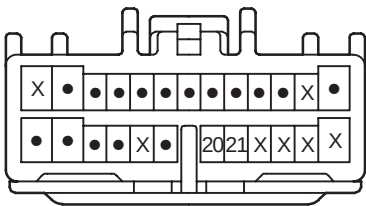
## : GROUND POINTS

| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| EB   | 96 (LHD)  | Left Fender                  |
| IF   | 98 (LHD)  | Left Kick Panel              |
|      | 108 (RHD) |                              |
| IG   | 108 (RHD) | Behind the Combination Meter |
| II   | 98 (LHD)  | Right Side of the Cowl Panel |

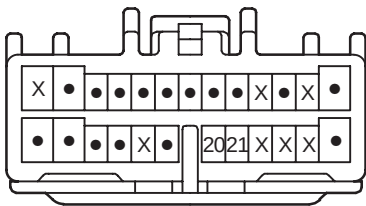


SHIFT LOCK

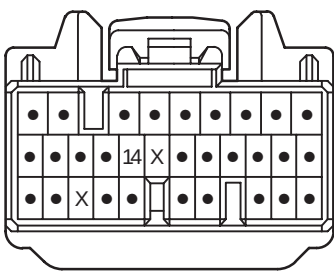
(LHD) B6



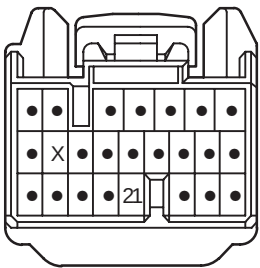
(RHD) B6



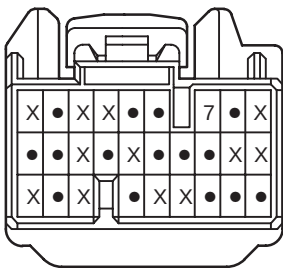
E2 (A)



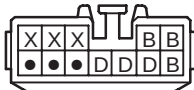
E3 (B)



E5 (D)

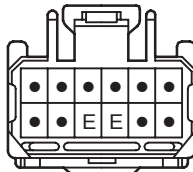


J1 BLACK



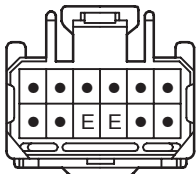
(Hint : See Page 7, 23, 39)

J3 (A)



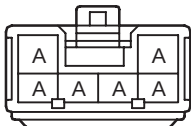
(Hint : See Page 7, 23, 39)

J4 (B)



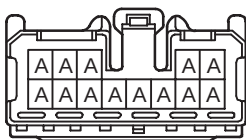
(Hint : See Page 7, 23, 39)

J8



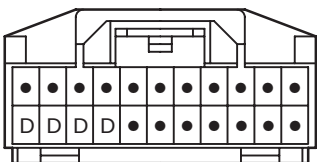
(Hint : See Page 7, 23, 39)

J10 ORANGE



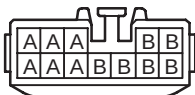
(Hint : See Page 7, 23, 39)

J13 (A)



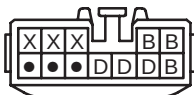
(Hint : See Page 7, 23, 39)

J18



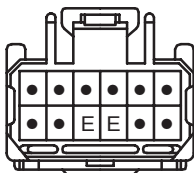
(Hint : See Page 7, 23, 39)

J25 BLACK



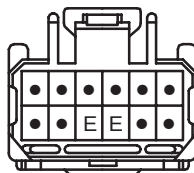
(Hint : See Page 7, 23, 39)

J27 (A)



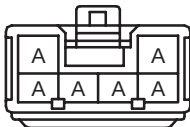
(Hint : See Page 7, 23, 39)

J28 (B)



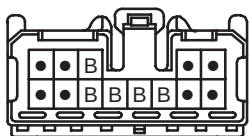
(Hint : See Page 7, 23, 39)

J32



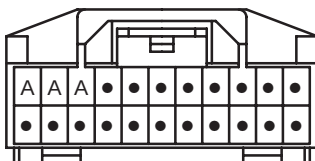
(Hint : See Page 7, 23, 39)

J35



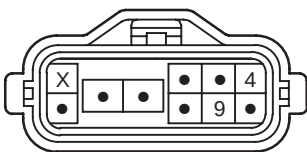
(Hint : See Page 7, 23, 39)

J38 (B)



(Hint : See Page 7, 23, 39)

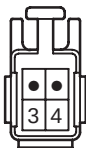
N1 GRAY



S5



U1



NOTICE: When inspecting or repairing the SRS, perform the operation in accordance with the following precautionary instructions and the procedure and precautions in the Repair Manual for the applicable model year.

- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started after 90 seconds from when the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.**  
**(The SRS is equipped with a back-up power source so that if work is started within 90 seconds from disconnecting the negative (-) terminal cable of the battery, the SRS may be deployed.)**
- When the negative (-) terminal cable is disconnected from the battery, the memory of the clock and audio system will be canceled. So before starting work, make a record of the contents memorized in the audio memory system. When work is finished, reset the audio systems as they were before and adjust the clock. To avoid erasing the memory in each memory system, never use a back-up power supply from outside the vehicle.
- Before repairs, remove the airbag sensor if shocks are likely to be applied to the sensor during repairs.
- Do not expose the steering wheel pad, front passenger airbag assembly, side airbag assembly, seat belt pretensioner, airbag sensor assembly, front airbag sensor or side airbag sensor assembly directly to hot air or flames.
- Even in cases of a minor collision where the SRS does not deploy, the steering wheel pad, front passenger airbag assembly, side airbag assembly, seat belt pretensioner, airbag sensor assembly, front airbag sensor and side airbag sensor assembly should be inspected.
- Never use SRS parts from another vehicle. When replacing parts, replace them with new parts.
- Never disassemble and repair the steering wheel pad, front passenger airbag assembly, side airbag assembly, seat belt pretensioner or airbag sensor assembly in order to reuse it.
- If the steering wheel pad, front passenger airbag assembly, side airbag assembly, seat belt pretensioner, airbag sensor assembly, front airbag sensor or side airbag sensor assembly has been dropped, or if there are cracks, dents or other defects in the case, bracket or connector, replace them with new ones.
- Use a volt/ohmmeter with high impedance (10 k $\Omega$ /V minimum) for troubleshooting the system's electrical circuits.
- Information labels are attached to the periphery of the SRS components. Follow the instructions on the notices.
- After work on the SRS is completed, perform the SRS warning light check or SRS side airbag warning light check.
- If the vehicle is equipped with a mobile communication system, refer to the precaution in the IN section of the Repair Manual.

## SYSTEM OUTLINE

The SRS is a driver and front passenger protection device which has a supplemental role to the seat belts.

When the ignition SW is turned to ACC or ON, the current from the **SRS-ACC** fuse flows to **TERMINAL (B) 6** of the center airbag sensor assembly. Only when the ignition SW is on does the current flow from the **IGN** fuse to **TERMINAL (B) 5** of the center airbag sensor assembly.

If an accident occurs while driving, when the frontal impact exceeds a set level, the current from the **SRS-ACC** or **IGN** fuse flows to **TERMINALS (B) 14, (B) 10, (C) 5** and **(A) 2** of the center airbag sensor assembly to **TERMINAL 1** of the airbag squibs and the pretensioners to **TERMINAL 2** to **TERMINALS (B) 13, (B) 11, (C) 6** and **(A) 1** of the center airbag sensor assembly to **TERMINAL (B) 27, (B) 28** or **BODY GROUND** to **GROUND**, so that current flows to the airbag squibs and the pretensioners and causes them to operate.

When the side impact also exceeds a set level, the current from the **SRS-ACC** or **IGN** fuse flows to **TERMINALS (C) 2, (A) 5, (C) 5** and **(A) 2** of the center airbag sensor assembly to **TERMINAL 1** of the side airbag squibs and the pretensioners to **TERMINAL 2** to **TERMINALS (C) 1, (A) 6, (C) 6** and **(A) 1** of the center airbag sensor assembly to **TERMINAL (B) 27, (B) 28** or **BODY GROUND** to **GROUND**, causing side airbag squibs and the pretensioners to operate.

The airbag stored inside the steering wheel pad is instantaneously expanded to soften the shock to the driver.

The airbag stored inside the front passenger's instrument panel is instantaneously expanded to soften the shock to the front passenger.

Side airbags are instantaneously expanded to soften the shock of side to the driver and front passenger.

The pretensioners make sure of the seat belt restrainability.

## ○ : PARTS LOCATION

| Code | See Page | Code | See Page | Code     | See Page |
|------|----------|------|----------|----------|----------|
| A12  | 68 (LHD) | C7   | B        | 86 (RHD) | P14      |
|      | 82 (RHD) | C8   | C        | 72 (LHD) | P15      |
| A13  | 68 (LHD) |      |          | 86 (RHD) | P15      |
|      | 82 (RHD) | C11  |          | 72 (LHD) | S13      |
| A31  | 72 (LHD) |      |          | 86 (RHD) | S13      |
|      | 86 (RHD) | D2   |          | 72 (LHD) | S14      |
| A32  | 72 (LHD) |      |          | 86 (RHD) | S14      |
|      | 86 (RHD) | J8   |          | 74 (LHD) | S20      |
| C3   | 68 (LHD) | J9   | A        | 74 (LHD) | S20      |
|      | 82 (RHD) | J31  |          | 88 (RHD) | S21      |
| C6   | 72 (LHD) | J32  |          | 88 (RHD) | S21      |
|      | 86 (RHD) | J38  | B        | 88 (RHD) |          |
| C7   | 72 (LHD) | P14  |          | 78 (LHD) |          |

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)         |
|------|----------|--------------------------------------------------------------|
| 1D   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)  |
|      | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel) |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1N   | 59 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 59 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |

## □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)        |
|------|-----------|-------------------------------------------------------------------|
| EA1  | 96 (LHD)  | Engine Wire and Cowl Wire (Inside of the ECU Box)                 |
|      | 106 (RHD) |                                                                   |
| IF1  | 98 (LHD)  | Cowl Wire and Cowl Wire (Right Side of the Steering Column)       |
| IH1  | 110 (RHD) | Cowl Wire and Cowl Wire (Left Side of the Steering Column)        |
| II3  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B) |
| IK2  | 110 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)    |

**: GROUND POINTS**

| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| EB   | 96 (LHD)  | Left Fender                  |
|      | 106 (RHD) |                              |
| IF   | 98 (LHD)  | Left Kick Panel              |
|      | 108 (RHD) |                              |
| IG   | 98 (LHD)  | Behind the Combination Meter |
|      | 108 (RHD) |                              |

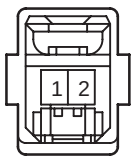
A12 YELLOW



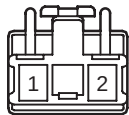
A13 YELLOW



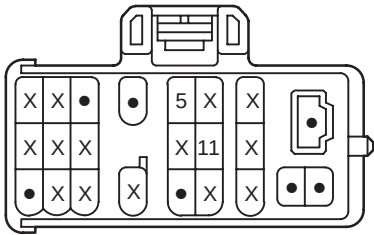
A31 YELLOW



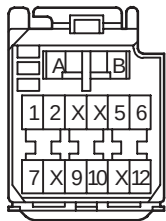
A32 YELLOW



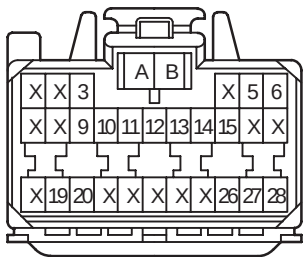
C3 BLACK



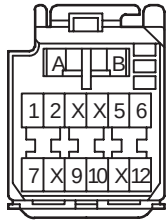
C6 (A) YELLOW



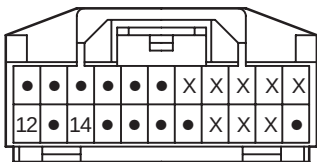
C7 (B) YELLOW



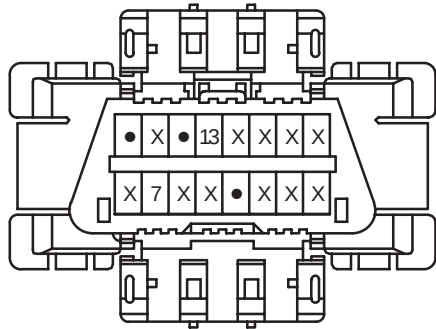
C8 (C) YELLOW



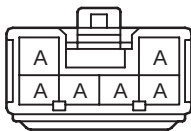
C11



D2

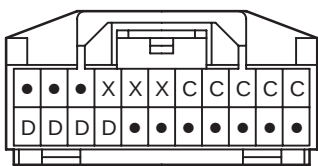


J8



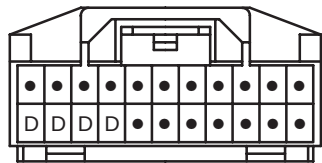
(Hint : See Page 7, 23, 39)

J9 (A)



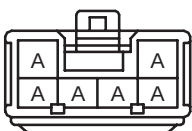
(Hint : See Page 7, 23, 39)

J31



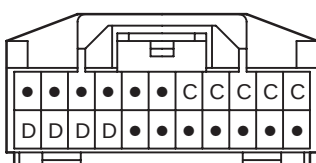
(Hint : See Page 7, 23, 39)

J32



(Hint : See Page 7, 23, 39)

J38 (B)

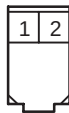


(Hint : See Page 7, 23, 39)

P14 YELLOW



P15 YELLOW



S13 YELLOW



S14 YELLOW



S20 YELLOW



S21 YELLOW



## SYSTEM OUTLINE

### 1. MANUAL UNLOCK OPERATION

When the door lock control SW on the driver or front passenger seat is pressed to the unlock position, the signal is input to **TERMINAL MUL** of the driver door ECU or front passenger door ECU. Through communication control of the body ECU and door ECU etc. , the current flows from **TERMINAL A-** of the door ECU into the door lock motor to **TERMINAL A+** of the door ECU to **GROUND**, to unlock the door.

### 2. MANUAL LOCK OPERATION

When the door lock control SW on the driver or front passenger seat is pressed to LOCK, signal is input to **TERMINAL ML** of the driver door ECU or front passenger door ECU. Through communication control of the body ECU and door ECU etc. , current flows from **TERMINAL A+** of the door ECU to door lock motor to **TERMINAL A-** of the door ECU to **GROUND**, to lock the door.

### 3. DOOR KEY UNLOCK OPERATION

#### \* Unlock operation from driver door (G.C.C.)

When the door is unlocked once by the ignition key from the driver side, the signal from the door key lock and unlock SW in the door lock motor front LH is input to **TERMINAL KUL** of the driver door ECU. This signal activates the driver door ECU to flow the current from **TERMINAL A+** of the driver door ECU into the door lock motor front LH to **TERMINAL A+** of the driver door ECU to **GROUND**, to unlock only the driver door. Accordingly, if the second unlock operation is made within **3 sec.** after the above unlock operation, all the doors are unlocked through communication control of the body ECU and door ECU etc.

#### \* Unlock operation from driver door (Europe)

When the door is unlocked by the ignition key from the driver side, the signal from the door key lock and unlock SW in the door lock motor front LH is input to **TERMINAL KUL** of the driver door ECU. Through communication control of the body ECU and door ECU etc. , the current flows from **TERMINAL A-** of the door ECU into the door lock motor front LH to **TERMINAL A+** of the door ECU to **GROUND**, to unlock all the doors at once.

#### \* Unlock operation from passenger door

When the door is unlocked by the ignition key from the front passenger side, the signal from the door key lock and unlock SW in the door lock motor front RH is input to **TERMINAL KUL** of the front passenger door ECU. Through communication control of the body ECU and door ECU etc. , the current flows from **TERMINAL A-** of the door ECU into the door lock motor front RH to **TERMINAL A+** of the door ECU to **GROUND**, to unlock all the doors at once.

### 4. IGNITION KEY REMINDER OPERATION

When the door lock operation is made using the door knob with the ignition key remained inserted in the key cylinder and the door open, unlock operation is automatically made. Additionally, if lock operation is made with the door lock control SW or door key lock and unlock SW, unlock operation is automatically made after the lock operation has been completed.

# THEFT DETERRENT AND DOOR LOCK CONTROL (LHD)

## SERVICE HINTS

### L6 LUGGAGE COMPARTMENT DOOR KEY UNLOCK SW

1-2 : Closed with door lock cylinder unlocked with key

### E8 ENGINE HOOD COURTESY SW

1-2 : Closed with engine hood open

### L5 LUGGAGE COMPARTMENT DOOR COURTESY SW AND OPENER MOTOR

2-GROUND : Closed with luggage compartment door open

### D8, D9, D10, D11 DOOR COURTESY SW FRONT LH, RH, REAR LH, RH

1-2 : Closed with door open

### P11 DOOR LOCK CONTROL SW LH [POWER WINDOW MASTER SW]

5-16 : Closed with **LOCK** position

17-16 : Closed with **UNLOCK** position

### D13 DOOR LOCK CONTROL SW FRONT RH

3-2 : Closed with **LOCK** position

1-2 : Closed with **UNLOCK** position

### D16 DOOR LOCK MOTOR, DOOR KEY LOCK AND UNLOCK SW AND DOOR LOCK DETECTION SW FRONT LH

2-GROUND : Approx. **12** volts with door lock motor at lock operate

1-GROUND : Approx. **12** volts with door lock motor at unlock operate

5-3 : Closed with door lock cylinder locked with key

6-3 : Closed with door lock cylinder unlocked with key

### D17 DOOR LOCK MOTOR, DOOR KEY LOCK AND UNLOCK SW AND DOOR LOCK DETECTION SW FRONT RH

6-GROUND : Approx. **12** volts with door lock motor at lock operate

5-GROUND : Approx. **12** volts with door lock motor at unlock operate

2-4 : Closed with door lock cylinder locked with key

1-4 : Closed with door lock cylinder unlocked with key

### D14 DOOR LOCK MOTOR AND DOOR LOCK DETECTION SW REAR LH

2-GROUND : Approx. **12** volts with door lock motor at lock operate

1-GROUND : Approx. **12** volts with door lock motor at unlock operate

### D15 DOOR LOCK MOTOR AND DOOR LOCK DETECTION SW REAR RH

4-GROUND : Approx. **12** volts with door lock motor at lock operate

3-GROUND : Approx. **12** volts with door lock motor at unlock operate

## ○ : PARTS LOCATION

| Code | See Page   | Code | See Page   | Code | See Page |
|------|------------|------|------------|------|----------|
| A16  | 72 (LHD)   | D18  | A 76 (LHD) | J18  | 74 (LHD) |
| B5   | A 72 (LHD) | D19  | B 76 (LHD) | J19  | 74 (LHD) |
| B6   | A 72 (LHD) | D20  | C 76 (LHD) | J21  | 78 (LHD) |
| C12  | 72 (LHD)   | E5   | 68 (LHD)   | J22  | 78 (LHD) |
| D1   | 72 (LHD)   | E8   | 68 (LHD)   | L5   | 78 (LHD) |
| D3   | 76 (LHD)   | F11  | A 76 (LHD) | L6   | 78 (LHD) |
| D8   | 76 (LHD)   | F12  | B 76 (LHD) | M2   | 74 (LHD) |
| D9   | 76 (LHD)   | F13  | C 76 (LHD) | P11  | 78 (LHD) |
| D10  | 76 (LHD)   | H20  | 72 (LHD)   | P19  | 80 (LHD) |
| D11  | 76 (LHD)   | J7   | 74 (LHD)   | R8   | 74 (LHD) |
| D13  | 76 (LHD)   | J8   | 74 (LHD)   | R13  | 78 (LHD) |
| D14  | 76 (LHD)   | J10  | 74 (LHD)   | R14  | 78 (LHD) |
| D15  | 76 (LHD)   | J13  | 74 (LHD)   | T1   | 70 (LHD) |
| D16  | 76 (LHD)   | J15  | 74 (LHD)   | T5   | 74 (LHD) |
| D17  | 76 (LHD)   | J16  | 74 (LHD)   | W6   | 78 (LHD) |

 : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
| 2    | 55 (LHD) | Engine Room No.2 R/B (Engine Compartment Left)  |

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)        |
|------|----------|-------------------------------------------------------------|
| 1A   | 58 (LHD) | Engine Room Main Wire and Driver Side J/B (Left Kick Panel) |
| 1E   | 58 (LHD) | Floor No.2 Wire and Driver Side J/B (Left Kick Panel)       |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)             |
| 1G   | 59 (LHD) |                                                             |
| 1H   |          |                                                             |
| 2B   | 60 (LHD) |                                                             |
| 2E   | 60 (LHD) | Floor No.1 Wire and Passenger Side J/B (Right Kick Panel)   |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)         |
| 2G   | 61 (LHD) |                                                             |
| 2H   |          |                                                             |

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)             |
|------|-----------|------------------------------------------------------------------------|
| IB1  | 98 (LHD)  | Front Door LH Wire and Cowl Wire (Left Kick Panel)                     |
| IC1  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                        |
| IC2  |           |                                                                        |
| IC3  |           |                                                                        |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column) |
| IE2  |           |                                                                        |
| II2  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)      |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)     |
| IJ2  |           |                                                                        |
| IK1  | 100 (LHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                    |
| IL1  | 100 (LHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                       |
| IL3  |           |                                                                        |
| BA1  | 102 (LHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)     |
| BB1  | 102 (LHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)     |
| BC1  | 104 (LHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)       |

 : GROUND POINTS

| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| EB   | 96 (LHD)  | Left Fender                   |
| IF   | 98 (LHD)  | Left Kick Panel               |
| II   | 98 (LHD)  | Right Side of the Cowl Panel  |
| BJ   | 102 (LHD) | Rear Floor Partition Panel LH |
| BK   | 102 (LHD) | Quarter Panel LH              |
| BL   | 102 (LHD) | Rear Floor Partition Panel RH |
| BM   | 102 (LHD) | Quarter Panel RH              |

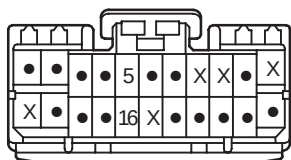
 : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|----------|---------------------------------|
| I6   | 100 (LHD) | Cowl Wire                       |      |          |                                 |

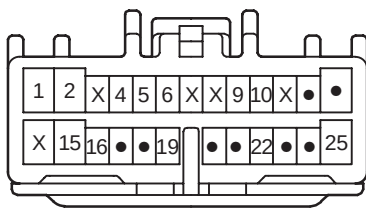


# THEFT DETERRENT AND DOOR LOCK CONTROL (LHD)

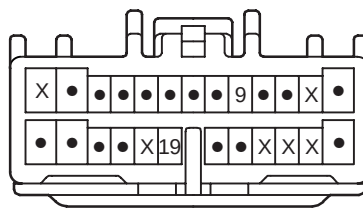
A16



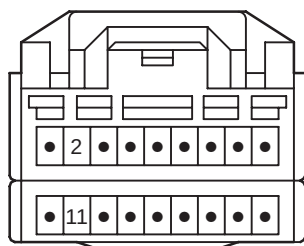
B5 (A)



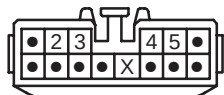
B6 (A)



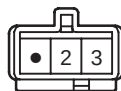
C12



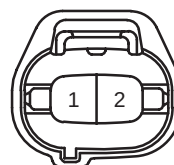
D1 BLUE



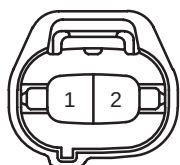
D3



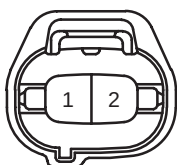
D8 GRAY



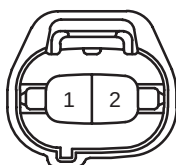
D9 GRAY



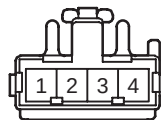
D10 GRAY



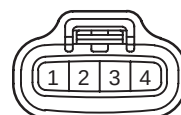
D11 GRAY



D13



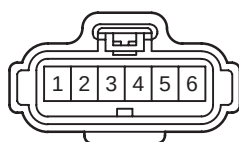
D14 BLACK



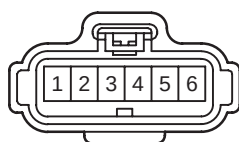
D15 BLACK



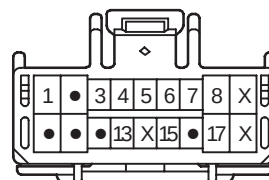
D16 BLACK



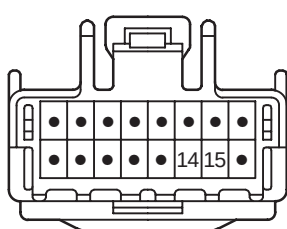
D17 BLACK



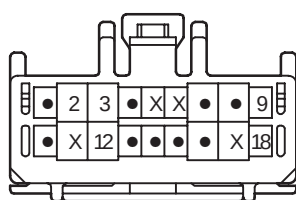
D18 (A) GRAY



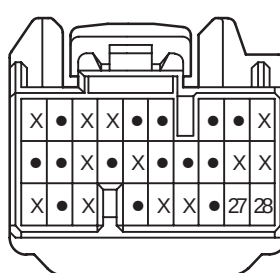
D19 (B) GRAY



D20 (C) GRAY



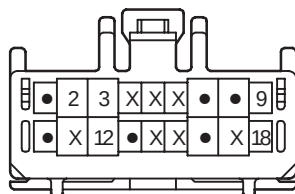
E5



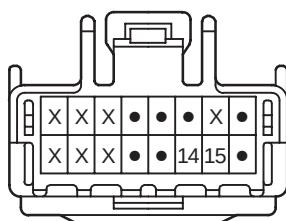
E8 BLACK



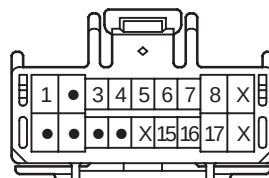
F11 (A) GRAY

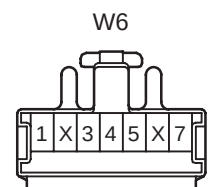
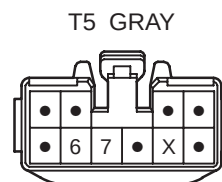
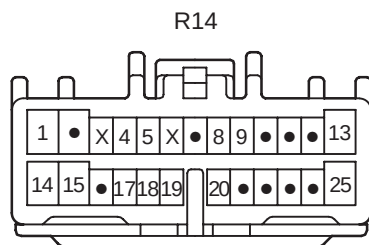
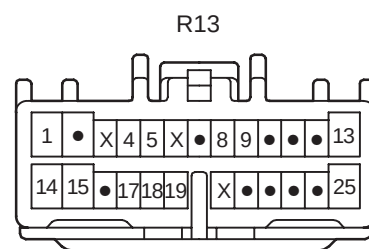
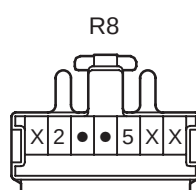
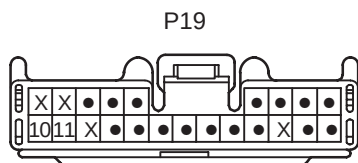
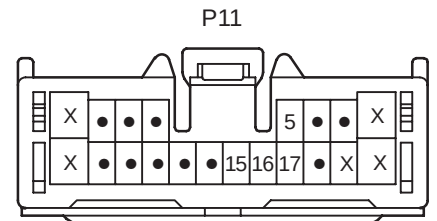
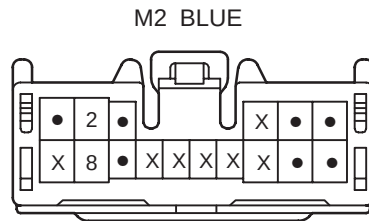
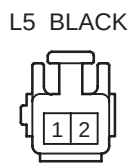
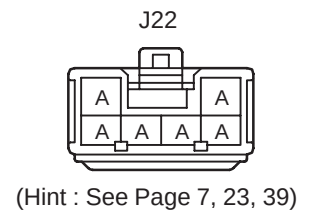
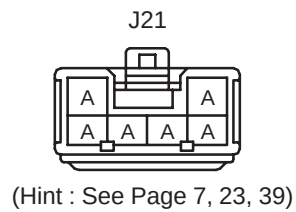
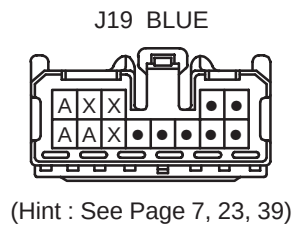
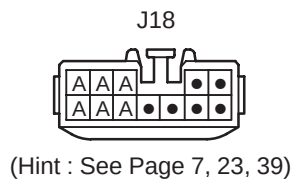
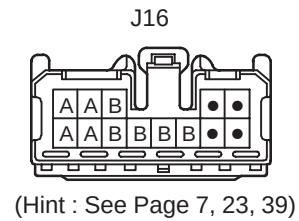
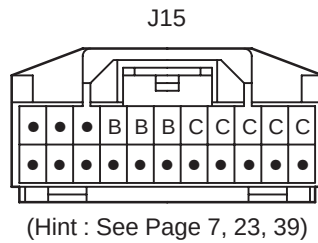
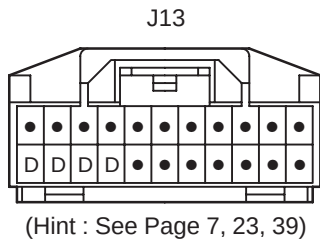
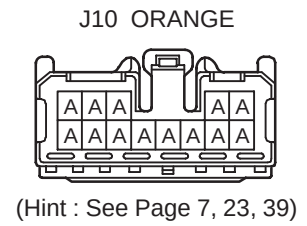
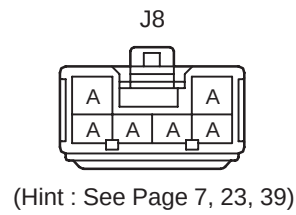
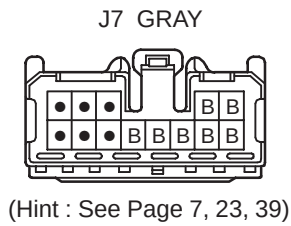
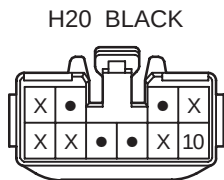


F12 (B) GRAY



F13 (C) GRAY





## SYSTEM OUTLINE

### 1. MANUAL UNLOCK OPERATION

When the door lock control SW on the driver or front passenger seat is pressed to the unlock position, the signal is input to **TERMINAL MUL** of the driver door ECU or front passenger door ECU. Through communication control of the body ECU and door ECU etc. , the current flows from **TERMINAL A-** of the door ECU into the door lock motor to **TERMINAL A+** of the door ECU to **GROUND**, to unlock the door.

### 2. MANUAL LOCK OPERATION

When the door lock control SW on the driver or front passenger seat is pressed to LOCK, signal is input to **TERMINAL ML** of the driver door ECU or front passenger door ECU. Through communication control of the body ECU and door ECU etc. , current flows from **TERMINAL A+** of the door ECU to door lock motor to **TERMINAL A-** of the door ECU to **GROUND**, to lock the door.

### 3. DOOR KEY UNLOCK OPERATION

#### \* Unlock operation from driver door (Australia)

When the door is unlocked once by the ignition key from the driver side, the signal from the door key lock and unlock SW in the door lock motor front RH is input to **TERMINAL KUL** of the driver door ECU. This signal activates the driver door ECU to flow the current from **TERMINAL A+** of the driver door ECU into the door lock motor front RH to **TERMINAL A+** of the driver door ECU to **GROUND**, to unlock only the driver door. Accordingly, if the second unlock operation is made within **3 sec.** after the above unlock operation, all the doors are unlocked through communication control of the body ECU and door ECU etc.

#### \* Unlock operation from driver door (Europe)

When the door is unlocked by the ignition key from the driver side, the signal from the door key lock and unlock SW in the door lock motor front RH is input to **TERMINAL KUL** of the driver door ECU. Through communication control of the body ECU and door ECU etc. , the current flows from **TERMINAL A-** of the door ECU into the door lock motor front RH to **TERMINAL A+** of the door ECU to **GROUND**, to unlock all the doors at once.

#### \* Unlock operation from passenger door

When the door is unlocked by the ignition key from the front passenger side, the signal from the door key lock and unlock SW in the door lock motor front LH is input to **TERMINAL KUL** of the front passenger door ECU. Through communication control of the body ECU and door ECU etc. , the current flows from **TERMINAL A-** of the door ECU into the door lock motor front LH to **TERMINAL A+** of the door ECU to **GROUND**, to unlock all the doors at once.

### 4. IGNITION KEY REMINDER OPERATION

When the door lock operation is made using the door knob with the ignition key remained inserted in the key cylinder and the door open, unlock operation is automatically made. Additionally, if lock operation is made with the door lock control SW or door key lock and unlock SW, unlock operation is automatically made after the lock operation has been completed.

# THEFT DETERRENT AND DOOR LOCK CONTROL (RHD)

## SERVICE HINTS

### L6 LUGGAGE COMPARTMENT DOOR KEY UNLOCK SW

1-2 : Closed with door lock cylinder unlocked with key

### E8 ENGINE HOOD COURTESY SW

1-2 : Closed with engine hood open

### L5 LUGGAGE COMPARTMENT DOOR COURTESY SW AND OPENER MOTOR

2-GROUND : Closed with luggage compartment door open

### D8, D9, D10, D11 DOOR COURTESY SW FRONT LH, RH, REAR LH, RH

1-2 : Closed with door open

### P11 DOOR LOCK CONTROL SW RH [POWER WINDOW MASTER SW]

5-16 : Closed with **LOCK** position

17-16 : Closed with **UNLOCK** position

### D12 DOOR LOCK CONTROL SW FRONT LH

3-2 : Closed with **LOCK** position

1-2 : Closed with **UNLOCK** position

### D16 DOOR LOCK MOTOR, DOOR KEY LOCK AND UNLOCK SW AND DOOR LOCK DETECTION SW FRONT LH

2-GROUND : Approx. **12** volts with door lock motor at lock operate

1-GROUND : Approx. **12** volts with door lock motor at unlock operate

5-3 : Closed with door lock cylinder locked with key

6-3 : Closed with door lock cylinder unlocked with key

### D17 DOOR LOCK MOTOR, DOOR KEY LOCK AND UNLOCK SW AND DOOR LOCK DETECTION SW FRONT RH

6-GROUND : Approx. **12** volts with door lock motor at lock operate

5-GROUND : Approx. **12** volts with door lock motor at unlock operate

2-4 : Closed with door lock cylinder locked with key

1-4 : Closed with door lock cylinder unlocked with key

### D14 DOOR LOCK MOTOR AND DOOR LOCK DETECTION SW REAR LH

2-GROUND : Approx. **12** volts with door lock motor at lock operate

1-GROUND : Approx. **12** volts with door lock motor at unlock operate

### D15 DOOR LOCK MOTOR AND DOOR LOCK DETECTION SW REAR RH

4-GROUND : Approx. **12** volts with door lock motor at lock operate

3-GROUND : Approx. **12** volts with door lock motor at unlock operate

## ○ : PARTS LOCATION

| Code |   | See Page |  | Code |   | See Page |  | Code |          | See Page |  |
|------|---|----------|--|------|---|----------|--|------|----------|----------|--|
| A16  |   | 86 (RHD) |  | D19  | B | 90 (RHD) |  | J44  | 90 (RHD) |          |  |
| B5   | A | 86 (RHD) |  | D20  | C | 90 (RHD) |  | J45  | 90 (RHD) |          |  |
| B6   | A | 86 (RHD) |  | E5   |   | 82 (RHD) |  | L5   | 90 (RHD) |          |  |
| C12  |   | 86 (RHD) |  | E8   |   | 82 (RHD) |  | L6   | 90 (RHD) |          |  |
| D3   |   | 90 (RHD) |  | F11  | A | 90 (RHD) |  | M2   | 88 (RHD) |          |  |
| D8   |   | 90 (RHD) |  | F12  | B | 90 (RHD) |  | P11  | 92 (RHD) |          |  |
| D9   |   | 90 (RHD) |  | F13  | C | 90 (RHD) |  | P19  | 94 (RHD) |          |  |
| D10  |   | 90 (RHD) |  | H20  |   | 86 (RHD) |  | R8   | 88 (RHD) |          |  |
| D11  |   | 90 (RHD) |  | J31  |   | 88 (RHD) |  | R13  | 92 (RHD) |          |  |
| D12  |   | 90 (RHD) |  | J32  |   | 88 (RHD) |  | R14  | 92 (RHD) |          |  |
| D14  |   | 90 (RHD) |  | J37  |   | 88 (RHD) |  | T1   | 84 (RHD) |          |  |
| D15  |   | 90 (RHD) |  | J38  |   | 88 (RHD) |  | T5   | 88 (RHD) |          |  |
| D16  |   | 90 (RHD) |  | J40  |   | 88 (RHD) |  | W6   | 92 (RHD) |          |  |
| D17  |   | 90 (RHD) |  | J41  |   | 88 (RHD) |  |      |          |          |  |
| D18  | A | 90 (RHD) |  | J42  |   | 88 (RHD) |  |      |          |          |  |

 : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |
| 2    | 55 (RHD) | Engine Room No.2 R/B (Engine Compartment Right) |

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)           |
|------|----------|----------------------------------------------------------------|
| 1A   | 58 (RHD) | Engine Room Main Wire and Driver Side J/B (Right Kick Panel)   |
| 1E   | 58 (RHD) | Floor No.1 Wire and Driver Side J/B (Right Kick Panel)         |
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)               |
| 1G   | 59 (RHD) |                                                                |
| 1H   |          |                                                                |
| 2B   | 60 (RHD) | Engine Room Main Wire and Passenger Side J/B (Left Kick Panel) |
| 2E   | 60 (RHD) | Floor No.2 Wire and Passenger Side J/B (Left Kick Panel)       |
| 2F   | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)             |
| 2G   | 61 (RHD) |                                                                |
| 2H   |          |                                                                |

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|-----------|---------------------------------------------------------------------------|
| IA2  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)         |
| IB1  | 108 (RHD) | Front Door LH Wire and Cowl Wire (Left Kick Panel)                        |
| IC1  | 108 (RHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                           |
| IC2  |           |                                                                           |
| IC3  |           |                                                                           |
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)       |
| ID3  |           |                                                                           |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column)   |
| IJ2  |           |                                                                           |
| IK3  | 110 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)            |
| IL1  | 110 (RHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                       |
| IM1  | 110 (RHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                          |
| IM3  |           |                                                                           |
| BA1  | 112 (RHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)        |
| BB1  | 112 (RHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)        |
| BC1  | 114 (RHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Front Passenger's Seat) |
| BD1  | 114 (RHD) | Floor No.1 Wire and Front Seat RH Wire (Under the Driver's Seat)          |

 : GROUND POINTS

| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| EB   | 106 (RHD) | Left Fender                   |
| IF   | 108 (RHD) | Left Kick Panel               |
| IG   | 108 (RHD) | Behind the Combination Meter  |
| II   | 108 (RHD) | Cowl Side Panel RH            |
| BJ   | 112 (RHD) | Rear Floor Partition Panel LH |
| BK   | 112 (RHD) | Quarter Panel LH              |
| BL   | 112 (RHD) | Rear Floor Partition Panel RH |
| BM   | 112 (RHD) | Quarter Panel RH              |

 : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|----------|---------------------------------|
| I8   | 110 (RHD) | Cowl Wire                       |      |          |                                 |

A diagram of a two-part connector. It consists of a central rectangular body divided into two equal halves, labeled '1' on the left and '2' on the right. This central body is flanked by two smaller rectangular sections on either side. The entire assembly is enclosed within a larger, irregular frame that has a top handle-like structure and a bottom protrusion.

A schematic diagram of a two-chambered heart, such as that of a fish. It shows a central heart with two chambers, labeled 1 and 2, separated by a vertical septum. Chamber 1 is on the left and chamber 2 is on the right. The heart is connected to a network of blood vessels, including a dorsal aorta at the top and a ventral aorta at the bottom, with various branching vessels on the sides.

A diagram of a two-part connector. It consists of a central rectangular body divided into two equal halves, labeled '1' on the left and '2' on the right. This central body is flanked by two smaller rectangular sections on each side. The entire assembly is enclosed within a larger, irregular frame that has a top handle-like structure and a bottom protrusion.

A diagram of a two-part connector. It consists of a central rectangular body divided into two equal halves, labeled '1' on the left and '2' on the right. This central body is flanked by two smaller rectangular sections on either side. The entire assembly is enclosed within a larger, irregular frame that has a top handle-like structure and a bottom protrusion.

A diagram of a 4-bit shift register. It consists of four rectangular cells arranged horizontally, labeled 1, 2, 3, and 4 from left to right. Each cell has a small square input on its bottom edge. Above the cells are two vertical lines, and above those are two small circles. To the right of the cells is a vertical line with a small circle at the top.

A diagram of a four-carriage train. The train consists of four rectangular cars connected in a line. The cars are numbered 1, 2, 3, and 4 from left to right. The first car (1) has a small rectangular structure on top, representing a locomotive or engine. The entire train is enclosed within a larger, rounded rectangular frame.

A diagram of a 6-pin connector. It is a rectangular component with a central slot and two side slots. The central slot contains six pins, numbered 1 through 6 from left to right. The side slots contain two pins each, numbered 7 and 8 on the left, and 9 and 10 on the right.

[illegible]

A diagram of a 16-pin D-sub connector. The pins are arranged in two rows of eight. The top row is numbered 1 through 8 from left to right. The bottom row is numbered 16 through 9 from left to right. Pins 14 and 15 are highlighted with a light blue background.

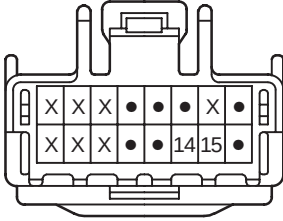
A top-down view of a rectangular board game component, possibly a ship or a base. It features several numbered and lettered sections. The top section has two vertical slots labeled 'X' and 'X'. Below this, there are two rows of three squares each. The first row contains squares labeled '2', '3', 'X', 'X', and '9'. The second row contains squares labeled 'X', '12', and '18'. There are also some smaller, unlabeled squares and a small rectangular slot at the bottom center.

A stylized illustration of a building facade. The central part of the facade features a grid of windows. The grid is composed of three rows and eight columns. The windows are filled with various symbols: 'X' marks, dots, and the numbers 27 and 28. The building has a central entrance with a small roof over it. The overall style is simple and graphic.

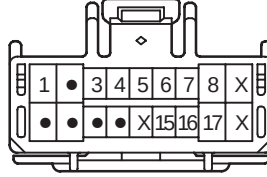
|   |   |   |  |   |  |  |  |
|---|---|---|--|---|--|--|--|
| X | X | X |  |   |  |  |  |
|   |   | X |  | X |  |  |  |
| X |   | X |  |   |  |  |  |

27 28

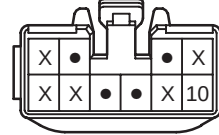
F12 (B) GRAY



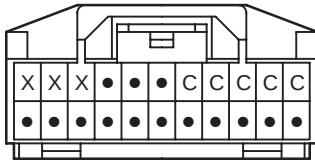
F13 (C) GRAY



H20 BLACK

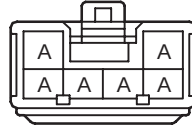


J31



(Hint : See Page 7, 23, 39)

J32



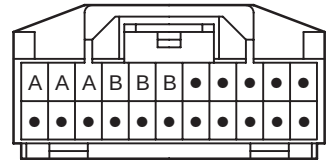
(Hint : See Page 7, 23, 39)

J37



(Hint : See Page 7, 23, 39)

J38



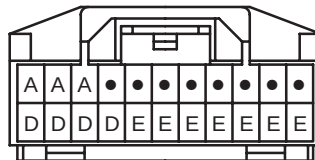
(Hint : See Page 7, 23, 39)

J40 GRAY



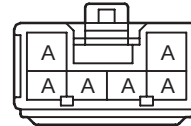
(Hint : See Page 7, 23, 39)

J41



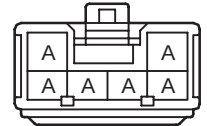
(Hint : See Page 7, 23, 39)

J42



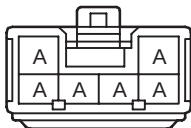
(Hint : See Page 7, 23, 39)

J44



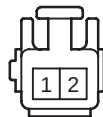
(Hint : See Page 7, 23, 39)

J45

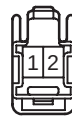


(Hint : See Page 7, 23, 39)

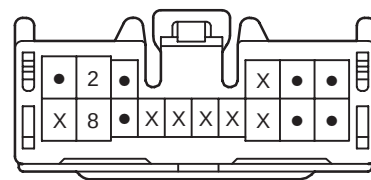
L5 BLACK



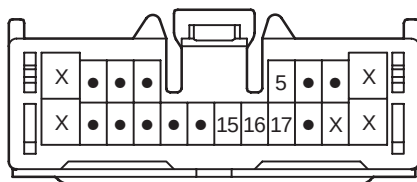
L6



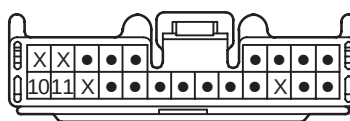
M2 BLUE



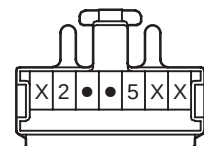
P11



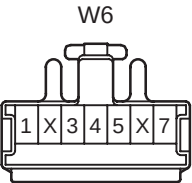
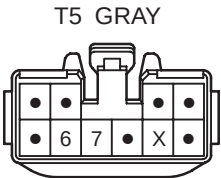
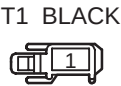
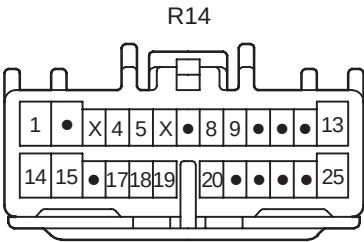
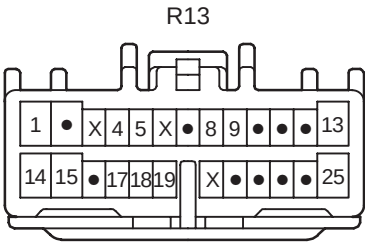
P19



R8 ORANGE



# THEFT DETERRENT AND DOOR LOCK CONTROL (RHD)





# TAILLIGHT (LHD)

## SYSTEM OUTLINE

When the light control SW is turned to the **TAIL** or **HEAD** position, the signal is input to **TERMINAL TAIL** of the body ECU No.2. This activates the body ECU No.2 to flow the current from the battery into the **ALT** fuse, tail relay (Coil side), **TERMINAL TRLY** of the body ECU No.2 to **GROUND** in that order to turn on the tail relay. The current flows from the **TAIL** fuse into the front clearance lights, license plate lights, **TERMINAL 5** of the light failure sensor to **TERMINAL 7** and **12** to taillights in that order to turn on each light.

### TAILLIGHT DISCONNECTION WARNING

If any taillight wiring is faulty when the ignition SW is turned to the **ON** position with the light control SW set at **TAIL** or **HEAD**, the light failure sensor detects a voltage difference and inputs the signal to **TERMINAL LF** of the body ECU No.2. The body ECU No.2 is activated to turn on the rear light warning light in the combination meter to warn the driver.

## SERVICE HINTS

### C13 LIGHT CONTROL SW [COMB. SW]

15-16 : Closed with light control SW at **TAIL** or **HEAD** position

### L4 LIGHT FAILURE SENSOR

8-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

5-GROUND : Approx. **12** volts with light control SW at **TAIL** or **HEAD** position

11-GROUND : Always continuity

## : PARTS LOCATION

| Code |   | See Page | Code | See Page | Code | See Page |
|------|---|----------|------|----------|------|----------|
| B6   | A | 72 (LHD) | J8   | 74 (LHD) | L3   | 78 (LHD) |
| C11  | A | 72 (LHD) | J10  | 74 (LHD) | L4   | 78 (LHD) |
| C12  | B | 72 (LHD) | J15  | 74 (LHD) | R9   | 78 (LHD) |
| C13  |   | 72 (LHD) | J18  | 74 (LHD) | R10  | 78 (LHD) |
| D1   |   | 72 (LHD) | J20  | 78 (LHD) | R11  | 78 (LHD) |
| F5   |   | 68 (LHD) | J21  | 78 (LHD) | R12  | 78 (LHD) |
| F6   |   | 68 (LHD) | L2   | 78 (LHD) |      |          |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)        |
|------|----------|-------------------------------------------------------------|
| 1A   | 58 (LHD) | Engine Room Main Wire and Driver Side J/B (Left Kick Panel) |
| 1B   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)             |
| 1D   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel) |
| 1E   | 58 (LHD) | Floor No.2 Wire and Driver Side J/B (Left Kick Panel)       |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)             |
| 1G   | 59 (LHD) |                                                             |
| 1H   |          |                                                             |
|      |          |                                                             |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)             |
|------|-----------|------------------------------------------------------------------------|
| IC1  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                        |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column) |
| II2  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)      |



# TAILLIGHT (RHD)

## SYSTEM OUTLINE

When the light control SW is turned to the **TAIL** or **HEAD** position, the signal is input to **TERMINAL TAIL** of the body ECU No.2. This activates the body ECU No.2 to flow the current from the battery into the **ALT** fuse, tail relay (Coil side), **TERMINAL TRLY** of the body ECU No.2 to **GROUND** in that order to turn on the tail relay. The current flows from the **TAIL** fuse into the front clearance lights, license plate lights, **TERMINAL 5** of the light failure sensor to **TERMINAL 7** and **12** to taillights in that order to turn on each light.

### TAILLIGHT DISCONNECTION WARNING

If any taillight wiring is faulty when the ignition SW is turned to the **ON** position with the light control SW set at **TAIL** or **HEAD**, the light failure sensor detects a voltage difference and inputs the signal to **TERMINAL LF** of the body ECU No.2. The body ECU No.2 is activated to turn on the rear light warning light in the combination meter to warn the driver.

## SERVICE HINTS

### C13 (A), (B) LIGHT CONTROL SW [COMB. SW]

(A) 15–(A) 16, (B) 15–(B) 9 : Closed with light control SW at **TAIL** or **HEAD** position

### L4 LIGHT FAILURE SENSOR

8–GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position

5–GROUND : Approx. **12** volts with light control SW at **TAIL** or **HEAD** position

11–GROUND : Always continuity

## ○ : PARTS LOCATION

| Code | See Page   | Code | See Page | Code | See Page |
|------|------------|------|----------|------|----------|
| B6   | A 86 (RHD) | J29  | 84 (RHD) | J44  | 90 (RHD) |
| C11  | A 86 (RHD) | J32  | 88 (RHD) | L2   | 90 (RHD) |
| C12  | B 86 (RHD) | J35  | 88 (RHD) | L3   | 90 (RHD) |
| C13  | A 86 (RHD) | J37  | 88 (RHD) | L4   | 90 (RHD) |
|      | B 86 (RHD) | J41  | 88 (RHD) | R10  | 92 (RHD) |
| F5   | 82 (RHD)   | J42  | 88 (RHD) | R12  | 92 (RHD) |
| F6   | 82 (RHD)   | J43  | 90 (RHD) |      |          |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)            |
|------|----------|------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left) |

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)         |
|------|----------|--------------------------------------------------------------|
| 1A   | 58 (RHD) | Engine Room Main Wire and Driver Side J/B (Right Kick Panel) |
| 1B   |          |                                                              |
| 1D   | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel) |
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1G   | 59 (RHD) |                                                              |
| 1H   |          |                                                              |

## □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)              |
|------|-----------|-------------------------------------------------------------------------|
| IC1  | 108 (RHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                         |
| IC2  |           |                                                                         |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |

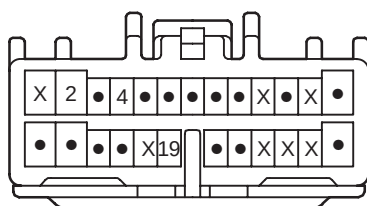
**: GROUND POINTS**

| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EB   | 106 (RHD) | Left Fender                        |
| EE   | 106 (RHD) | Under the ABS & TRC & VSC Actuator |
| IF   | 108 (RHD) | Left Kick Panel                    |
| II   | 108 (RHD) | Cowl Side Panel RH                 |
| BK   | 112 (RHD) | Quarter Panel LH                   |

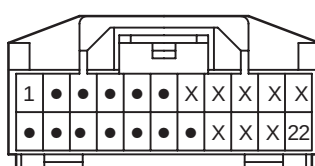
**: SPLICE POINTS**

| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| B4   | 112 (RHD) | Floor No.2 Wire                 | B5   | 112 (RHD) | Floor No.2 Wire                 |

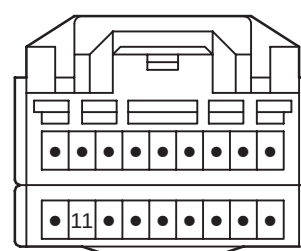
B6 (A)



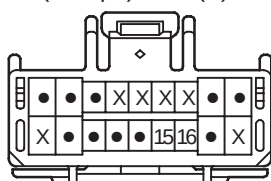
C11 (A)



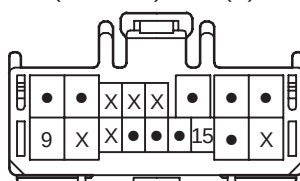
C12 (B)



(Europe) C13 (A)



(Australia) C13 (B)



F5 GRAY



F6 GRAY

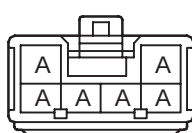


J29 BLUE



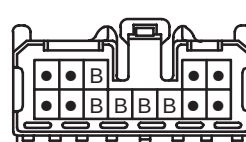
(Hint : See Page 7, 23, 39)

J32



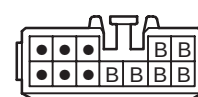
(Hint : See Page 7, 23, 39)

J35



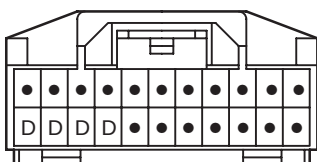
(Hint : See Page 7, 23, 39)

J37



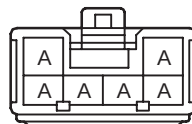
(Hint : See Page 7, 23, 39)

J41



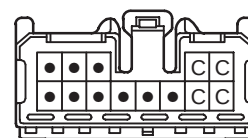
(Hint : See Page 7, 23, 39)

J42



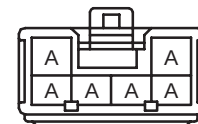
(Hint : See Page 7, 23, 39)

J43 BLUE



(Hint : See Page 7, 23, 39)

J44



(Hint : See Page 7, 23, 39)

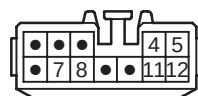
L2



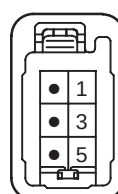
L3



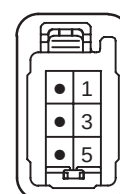
L4



R10



R12



## SERVICE HINTS

### T7 TURN SIGNAL FLASHER

- 4-GROUND : Always approx. **12** volts
- 1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- 7-GROUND : Always continuity

### : PARTS LOCATION

| Code | See Page | Code | See Page | Code | See Page |
|------|----------|------|----------|------|----------|
| B5   | 72 (LHD) | F6   | 68 (LHD) | J21  | 78 (LHD) |
| C11  | 72 (LHD) | H20  | 72 (LHD) | R10  | 78 (LHD) |
| C13  | 72 (LHD) | J8   | 74 (LHD) | R12  | 78 (LHD) |
| F3   | 68 (LHD) | J10  | 74 (LHD) | T7   | 74 (LHD) |
| F4   | 68 (LHD) | J12  | 74 (LHD) |      |          |
| F5   | 68 (LHD) | J18  | 74 (LHD) |      |          |

### : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |

### : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)                                   |
|------|----------|----------------------------------------------------------------------------------------|
| 1B   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                                        |
| 1C   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)                            |
| 1D   |          |                                                                                        |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                                        |
| 1G   | 59 (LHD) |                                                                                        |
| 1H   |          |                                                                                        |
| 2B   | 60 (LHD) | Engine Room Main Wire and Passenger Side J/B (Right Kick Panel)                        |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)                                    |
| 2G   | 61 (LHD) |                                                                                        |
| 2H   |          |                                                                                        |
| 3C   | 62       | Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Reinforcement Center) |
| 3G   | 63       |                                                                                        |

### : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)             |
|------|-----------|------------------------------------------------------------------------|
| IC2  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                        |
| IE2  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column) |
| II4  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)      |
| IJ2  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)     |

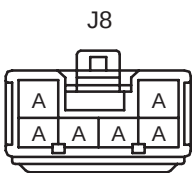
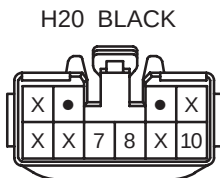
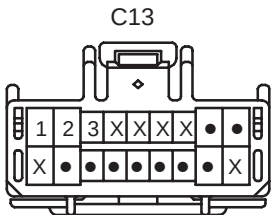
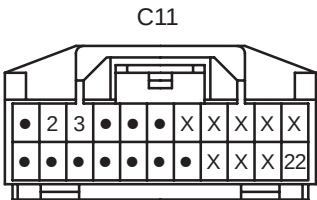
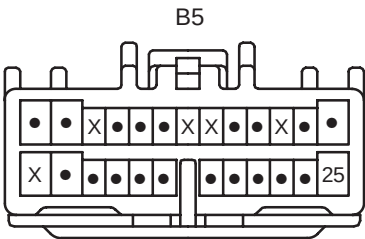
### : GROUND POINTS

| Code | See Page  | Ground Points Location       |
|------|-----------|------------------------------|
| EA   | 96 (LHD)  | Right Fender                 |
| EB   | 96 (LHD)  | Left Fender                  |
| IF   | 98 (LHD)  | Left Kick Panel              |
| II   | 98 (LHD)  | Right Side of the Cowl Panel |
| BK   | 102 (LHD) | Quarter Panel LH             |

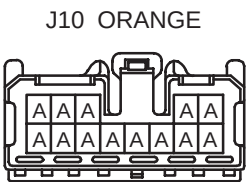
### : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| E4   | 96 (LHD)  | Cowl Wire                       | B4   | 102 (LHD) | Floor No.2 Wire                 |
| I5   | 100 (LHD) | Engine Room Main Wire           |      |           |                                 |

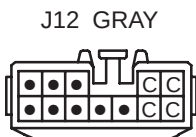
# TURN SIGNAL AND HAZARD WARNING LIGHT (LHD)



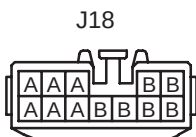
(Hint : See Page 7, 23, 39)



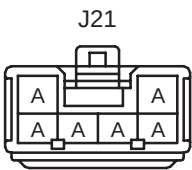
(Hint : See Page 7, 23, 39)



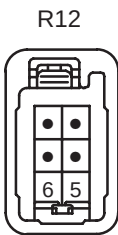
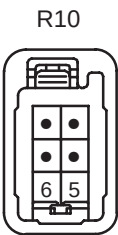
(Hint : See Page 7, 23, 39)



(Hint : See Page 7, 23, 39)



(Hint : See Page 7, 23, 39)



## SERVICE HINTS

### TURN SIGNAL FLASHER

- 4-GROUND : Always approx. **12** volts
- 1-GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
- 7-GROUND : Always continuity

## : PARTS LOCATION

| Code |   | See Page | Code | See Page | Code | See Page |
|------|---|----------|------|----------|------|----------|
| B5   |   | 86 (RHD) | F5   | 82 (RHD) | J35  | 88 (RHD) |
| C11  |   | 86 (RHD) | F6   | 82 (RHD) | J37  | 88 (RHD) |
| C13  | A | 86 (RHD) | H20  | 86 (RHD) | J42  | 88 (RHD) |
|      | B | 86 (RHD) | J29  | 84 (RHD) | J44  | 90 (RHD) |
| F3   |   | 82 (RHD) | J32  | 88 (RHD) | R10  | 92 (RHD) |
| F4   |   | 82 (RHD) | J34  | 88 (RHD) | R12  | 92 (RHD) |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)            |
|------|----------|------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left) |
| 5    | 57 (RHD) | Driver Side R/B (Right Kick Panel)             |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)                                   |
|------|----------|----------------------------------------------------------------------------------------|
| 1B   | 58 (RHD) | Engine Room Main Wire and Driver Side J/B (Right Kick Panel)                           |
| 1C   | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel)                           |
| 1D   |          |                                                                                        |
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)                                       |
| 1G   | 59 (RHD) |                                                                                        |
| 1H   |          |                                                                                        |
| 2E   | 60 (RHD) | Floor No.2 Wire and Passenger Side J/B (Left Kick Panel)                               |
| 2H   | 61 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)                                     |
| 3A   | 62       | Instrument Panel Wire and Instrument Panel J/B (Instrument Panel Reinforcement Center) |
| 3C   |          |                                                                                        |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)              |
|------|-----------|-------------------------------------------------------------------------|
| IA1  | 108 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)       |
| IC2  | 108 (RHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                         |
| ID3  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)     |
| IJ2  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |

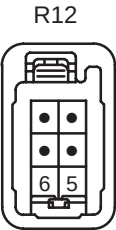
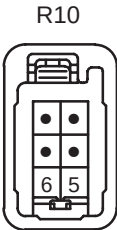
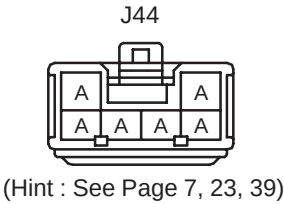
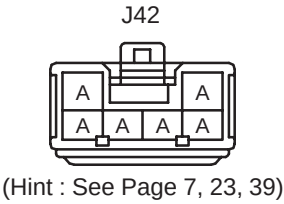
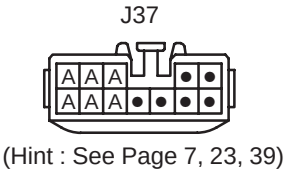
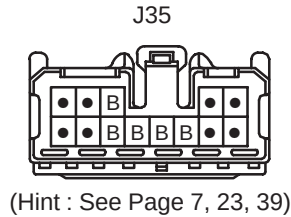
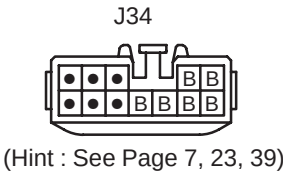
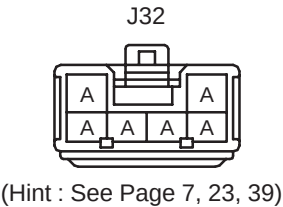
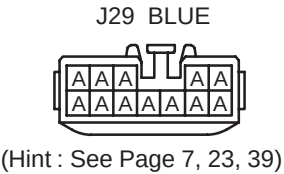
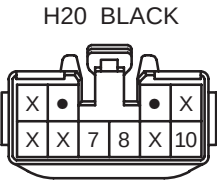
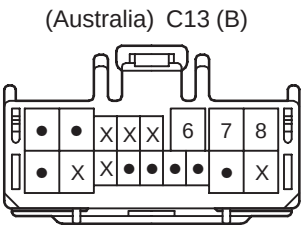
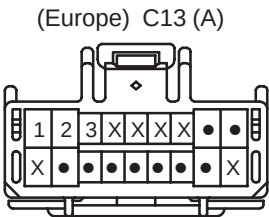
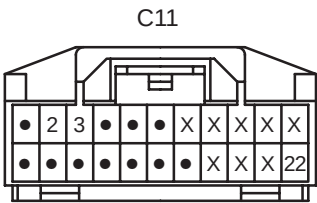
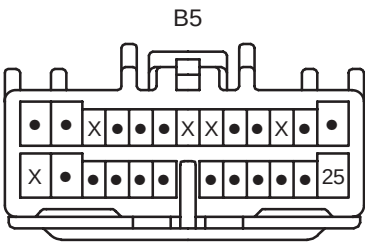
## : GROUND POINTS

| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EB   | 106 (RHD) | Left Fender                        |
| EE   | 106 (RHD) | Under the ABS & TRC & VSC Actuator |
| IF   | 108 (RHD) | Left Kick Panel                    |
| IG   | 108 (RHD) | Behind the Combination Meter       |
| II   | 108 (RHD) | Cowl Side Panel RH                 |
| BK   | 112 (RHD) | Quarter Panel LH                   |

## : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page  | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|-----------|---------------------------------|
| E4   | 106 (RHD) | Cowl Wire                       | B4   | 112 (RHD) | Floor No.2 Wire                 |

# TURN SIGNAL AND HAZARD WARNING LIGHT (RHD)





## SYSTEM OUTLINE

### 1. ABS OPERATION

If the brake pedal is depressed suddenly, the ABS controls the hydraulic pressure of the wheel cylinders for all the four wheels to automatically avoid wheel locking and ensure the directional and steering stability of the vehicle. If the brake pedal is depressed suddenly, the ABS & TRC & VSC ECU controls the solenoids in the actuators using the signals from the sensors to move the brake fluid to the reservoir in order to release the braking pressure applied to the wheel cylinder. If the ABS & TRC & VSC ECU detects that the fluid pressure in the wheel cylinder is insufficient, the ECU controls the solenoids in the actuators to increase the braking pressure.

### 2. TRACTION CONTROL OPERATION

The traction control system controls the engine torque, the hydraulic pressure of the driving wheel cylinders, slipping of the wheels which may occur at start or acceleration of the vehicle, to ensure an optimal driving power and vehicle stability corresponding to the road conditions.

### 3. VSC OPERATION

Unexpected road conditions, vehicle speed, emergency situation, and any other external factors may cause large under- or over-steering of the vehicle. If this occurs, the VSC system automatically controls the engine power and wheel brakes to reduce the under- or over-steering.

To reduce large over-steering :

If the VSC system determines that the over-steering is large, it activates the brakes for the outer turning wheels depending on the degree of the over-steering to produce the moment toward the outside of the vehicle and reduce the over-steering.

To reduce large under-steering :

If the VSC system determines that the under-steering is large, it controls the engine power and activates the rear wheel brakes to reduce the under-steering.

VSC OFF SW

The VSC OFF SW is used to stop the VSC function. After the engine is started, the VSC system is stopped (turned off) and the VSC OFF indicator light lights up. When the VSC OFF SW is pressed again, the VSC system enters the stand-by mode. If the engine is stopped and restarted, the VSC system enters the stand-by mode regardless of the VSC OFF SW.

VSC indicator light

If an error occurs in the VSC system, the VSC indicator lights up to warn the driver.

### 4. MUTUAL SYSTEM CONTROL

To efficiently operate the VSC system at its optimal level, the VSC system and other control systems are mutually controlled while the VSC system is being operated.

Engine throttle control

The engine power does not interfere with the VSC brake control by controlling the opening of the throttle and reducing the engine output.

Engine control and ECT control

The strong braking force does not interfere with the braking force control of the VSC system by turning off the accel. and reducing changes in the driving torque at shift-down.

VSC system operation indication

The slip indicator light flashes and the buzzer sounds intermittently to warn the driver that the current road is slippery, while the VSC system is being operated.

### 5. FAIL SAFE FUNCTION

If an error occurs in the ABS & TRC & VSC ECU, sensor signals, and/or actuators, the ABS & TRC & VSC ECU inhibits the brake actuator control and inputs the error signal to the engine and ECT ECU. According to the error signal, the brake actuator turns off the solenoid and the engine and ECT ECU rejects any electronically controlled throttle open request from the VSC system. As a result, the vehicle functions without the ABS, TRC, and VSC systems.

## SERVICE HINTS

### A22 (A), A23 (B), A24 (C) ABS & TRC & VSC ECU

(C) 1-GROUND : Approx. 12 volts with ignition SW at **ON** or **ST** position

(B) 6-GROUND : Approx. 12 volts with ignition SW at **ON** or **ST** position

(C) 7-GROUND : Approx. 12 volts with stop light SW on

(A) 6, (A) 31, (B) 8, (B) 17-GROUND : Always continuity

### A8, A9 ABS SPEED SENSOR FRONT LH, RH

1-2 : Approx. 1.60 k $\Omega$  (20°C, 68°F)

### A34, A35 ABS SPEED SENSOR REAR LH, RH

1-2 : Approx. 1.10 k $\Omega$  (20°C, 68°F)

## : PARTS LOCATION

| Code | See Page | Code     | See Page | Code | See Page |
|------|----------|----------|----------|------|----------|
| A5   | A        | 68 (LHD) | B6       | A    | 72 (LHD) |
| A6   | B        | 68 (LHD) | C3       |      | 68 (LHD) |
| A7   | C        | 68 (LHD) | C11      | A    | 72 (LHD) |
| A8   |          | 68 (LHD) | C12      | B    | 72 (LHD) |
| A9   |          | 68 (LHD) | C14      |      | 72 (LHD) |
| A22  | A        | 72 (LHD) | D2       |      | 72 (LHD) |
| A23  | B        | 72 (LHD) | E6       |      | 68 (LHD) |
| A24  | C        | 72 (LHD) | H3       |      | 68 (LHD) |
| A25  | D        | 72 (LHD) | J1       |      | 70 (LHD) |
| A26  |          | 72 (LHD) | J3       | A    | 70 (LHD) |
| A34  |          | 76 (LHD) | J4       | B    | 70 (LHD) |
| A35  |          | 76 (LHD) | J5       |      | 70 (LHD) |
| B1   |          | 68 (LHD) | J7       |      | 74 (LHD) |
|      |          |          |          | J8   | 74 (LHD) |
|      |          |          |          | J9   | 74 (LHD) |
|      |          |          |          | J10  | 74 (LHD) |
|      |          |          |          | J15  | 74 (LHD) |
|      |          |          |          | J16  | 74 (LHD) |
|      |          |          |          | J18  | 74 (LHD) |
|      |          |          |          | M1   | 70 (LHD) |
|      |          |          |          | N1   | 70 (LHD) |
|      |          |          |          | S12  | 74 (LHD) |
|      |          |          |          | V4   | 74 (LHD) |
|      |          |          |          | V5   | 74 (LHD) |
|      |          |          |          | Y1   | 74 (LHD) |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |
| 2    | 55 (LHD) | Engine Room No.2 R/B (Engine Compartment Left)  |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)        |
|------|----------|-------------------------------------------------------------|
| 1B   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)             |
| 1D   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel) |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)             |
| 1G   | 59 (LHD) |                                                             |
| 1H   |          |                                                             |

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)             |
|------|-----------|------------------------------------------------------------------------|
| EA1  | 96 (LHD)  | Engine Wire and Cowl Wire (Inside of the ECU Box)                      |
| EA2  |           |                                                                        |
| EA3  |           |                                                                        |
| IA1  | 98 (LHD)  | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)         |
| IA2  |           |                                                                        |
| IC1  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                        |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column) |
| II2  | 100 (LHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)      |
| II4  |           |                                                                        |
| IL3  | 100 (LHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                       |

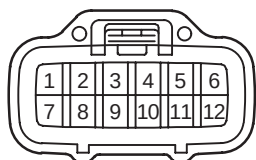
## : GROUND POINTS

| Code | See Page | Ground Points Location             |
|------|----------|------------------------------------|
| EA   | 96 (LHD) | Right Fender                       |
| EB   | 96 (LHD) | Left Fender                        |
| EE   | 96 (LHD) | Under the ABS & TRC & VSC Actuator |
| IF   | 98 (LHD) | Left Kick Panel                    |
| II   | 98 (LHD) | Right Side of the Cowl Panel       |

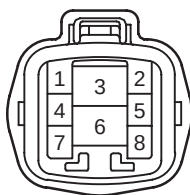
## : SPLICE POINTS

| Code | See Page  | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|----------|---------------------------------|
| I1   | 100 (LHD) | Cowl Wire                       |      |          |                                 |

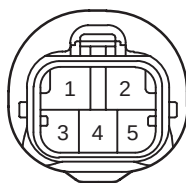
A5 (A) BLACK



A6 (B) BLACK



A7 (C) BLACK



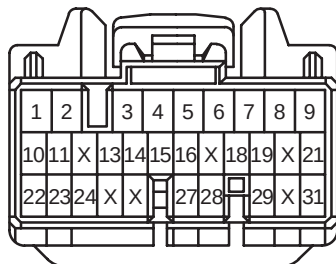
A8 GRAY



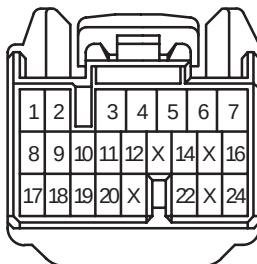
A9 GRAY



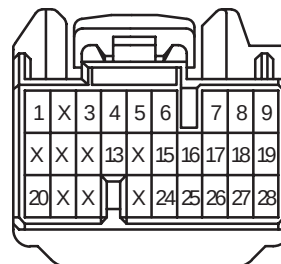
A22 (A)



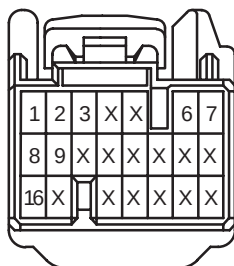
A23 (B)



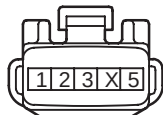
A24 (C)



A25 (D)



A26 BLACK



A34



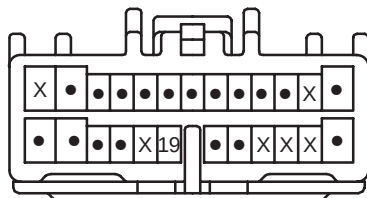
A35



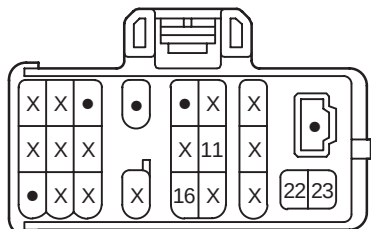
B1 GRAY



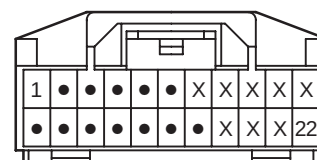
B6 (A)



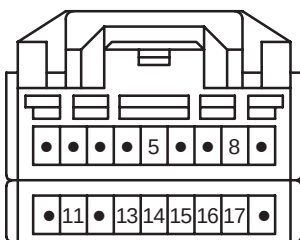
C3 BLACK



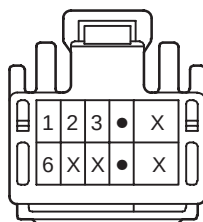
C11 (A)



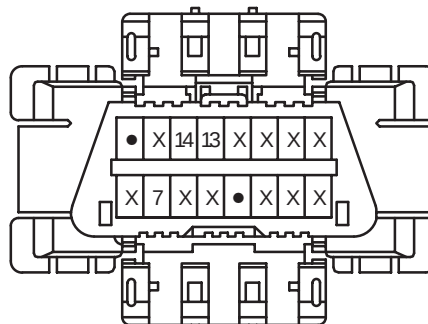
C12 (B)



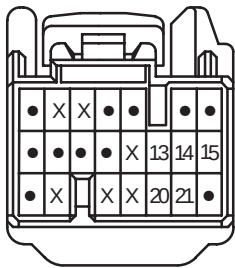
C14



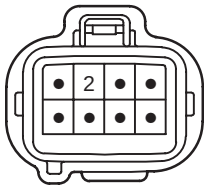
D2



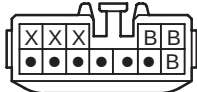
E6



H3 GRAY

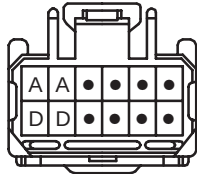


J1 BLACK



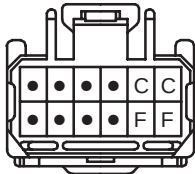
(Hint : See Page 7, 23, 39)

J3 (A)



(Hint : See Page 7, 23, 39)

J4 (B)



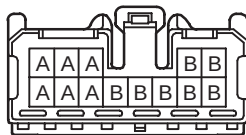
(Hint : See Page 7, 23, 39)

J5 BLUE



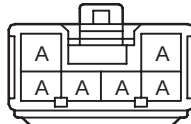
(Hint : See Page 7, 23, 39)

J7 GRAY



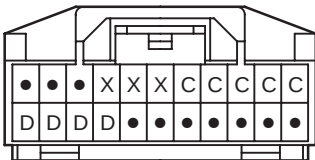
(Hint : See Page 7, 23, 39)

J8



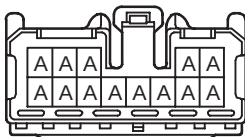
(Hint : See Page 7, 23, 39)

J9



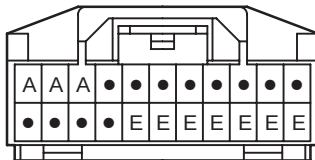
(Hint : See Page 7, 23, 39)

J10 ORANGE



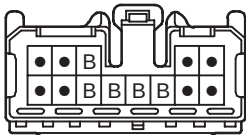
(Hint : See Page 7, 23, 39)

J15



(Hint : See Page 7, 23, 39)

J16



(Hint : See Page 7, 23, 39)

J18

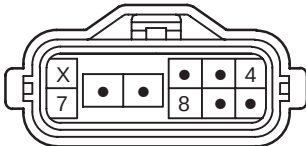


(Hint : See Page 7, 23, 39)

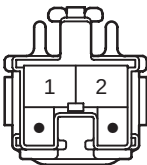
M1 BLACK



N1 GRAY



S12 BLUE



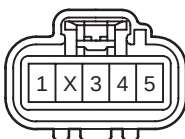
V4



V5 BLACK



Y1 BLACK



## SYSTEM OUTLINE

### 1. ABS OPERATION

If the brake pedal is depressed suddenly, the ABS controls the hydraulic pressure of the wheel cylinders for all the four wheels to automatically avoid wheel locking and ensure the directional and steering stability of the vehicle. If the brake pedal is depressed suddenly, the ABS & TRC & VSC ECU controls the solenoids in the actuators using the signals from the sensors to move the brake fluid to the reservoir in order to release the braking pressure applied to the wheel cylinder. If the ABS & TRC & VSC ECU detects that the fluid pressure in the wheel cylinder is insufficient, the ECU controls the solenoids in the actuators to increase the braking pressure.

### 2. TRACTION CONTROL OPERATION

The traction control system controls the engine torque, the hydraulic pressure of the driving wheel cylinders, slipping of the wheels which may occur at start or acceleration of the vehicle, to ensure an optimal driving power and vehicle stability corresponding to the road conditions.

### 3. VSC OPERATION

Unexpected road conditions, vehicle speed, emergency situation, and any other external factors may cause large under- or over-steering of the vehicle. If this occurs, the VSC system automatically controls the engine power and wheel brakes to reduce the under- or over-steering.

To reduce large over-steering :

If the VSC system determines that the over-steering is large, it activates the brakes for the outer turning wheels depending on the degree of the over-steering to produce the moment toward the outside of the vehicle and reduce the over-steering.

To reduce large under-steering :

If the VSC system determines that the under-steering is large, it controls the engine power and activates the rear wheel brakes to reduce the under-steering.

VSC OFF SW

The VSC OFF SW is used to stop the VSC function. After the engine is started, the VSC system is stopped (turned off) and the VSC OFF indicator light lights up. When the VSC OFF SW is pressed again, the VSC system enters the stand-by mode. If the engine is stopped and restarted, the VSC system enters the stand-by mode regardless of the VSC OFF SW.

VSC indicator light

If an error occurs in the VSC system, the VSC indicator lights up to warn the driver.

### 4. MUTUAL SYSTEM CONTROL

To efficiently operate the VSC system at its optimal level, the VSC system and other control systems are mutually controlled while the VSC system is being operated.

Engine throttle control

The engine power does not interfere with the VSC brake control by controlling the opening of the throttle and reducing the engine output.

Engine control and ECT control

The strong braking force does not interfere with the braking force control of the VSC system by turning off the accel. and reducing changes in the driving torque at shift-down.

VSC system operation indication

The slip indicator light flashes and the buzzer sounds intermittently to warn the driver that the current road is slippery, while the VSC system is being operated.

### 5. FAIL SAFE FUNCTION

If an error occurs in the ABS & TRC & VSC ECU, sensor signals, and/or actuators, the ABS & TRC & VSC ECU inhibits the brake actuator control and inputs the error signal to the engine and ECT ECU. According to the error signal, the brake actuator turns off the solenoid and the engine and ECT ECU rejects any electronically controlled throttle open request from the VSC system. As a result, the vehicle functions without the ABS, TRC, and VSC systems.

## SERVICE HINTS

### A22 (A), A23 (B), A24 (C) ABS & TRC & VSC ECU

(C) 1-GROUND : Approx. 12 volts with ignition SW at **ON** or **ST** position

(B) 6-GROUND : Approx. 12 volts with ignition SW at **ON** or **ST** position

(C) 7-GROUND : Approx. 12 volts with stop light SW on

(A) 6, (A) 31, (B) 8, (B) 17-GROUND : Always continuity

### A8, A9 ABS SPEED SENSOR FRONT LH, RH

1-2 : Approx. 1.60 kΩ (20°C, 68°F)

### A34, A35 ABS SPEED SENSOR REAR LH, RH

1-2 : Approx. 1.10 kΩ (20°C, 68°F)

 : PARTS LOCATION

| Code |   | See Page | Code |   | See Page | Code | See Page |
|------|---|----------|------|---|----------|------|----------|
| A5   | A | 82 (RHD) | C3   |   | 82 (RHD) | J36  | 88 (RHD) |
| A6   | B | 82 (RHD) | C11  | A | 86 (RHD) | J37  | 88 (RHD) |
| A7   | C | 82 (RHD) | C12  | B | 86 (RHD) | J38  | 88 (RHD) |
| A8   |   | 82 (RHD) | C14  |   | 86 (RHD) | J39  | 88 (RHD) |
| A9   |   | 82 (RHD) | D2   |   | 86 (RHD) | J41  | 88 (RHD) |
| A22  | A | 86 (RHD) | E6   |   | 82 (RHD) | J42  | 88 (RHD) |
| A23  | B | 86 (RHD) | H3   |   | 82 (RHD) | M1   | 84 (RHD) |
| A24  | C | 86 (RHD) | J25  |   | 84 (RHD) | N1   | 84 (RHD) |
| A25  | D | 86 (RHD) | J27  | A | 84 (RHD) | S12  | 88 (RHD) |
| A26  |   | 86 (RHD) | J28  | B | 84 (RHD) | V4   | 88 (RHD) |
| A34  |   | 90 (RHD) | J29  |   | 84 (RHD) | V5   | 88 (RHD) |
| A35  |   | 90 (RHD) | J31  |   | 88 (RHD) | Y1   | 88 (RHD) |
| B1   |   | 82 (RHD) | J32  |   | 88 (RHD) |      |          |
| B6   | A | 86 (RHD) | J35  |   | 88 (RHD) |      |          |

 : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left)  |
| 2    | 55 (RHD) | Engine Room No.2 R/B (Engine Compartment Right) |

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

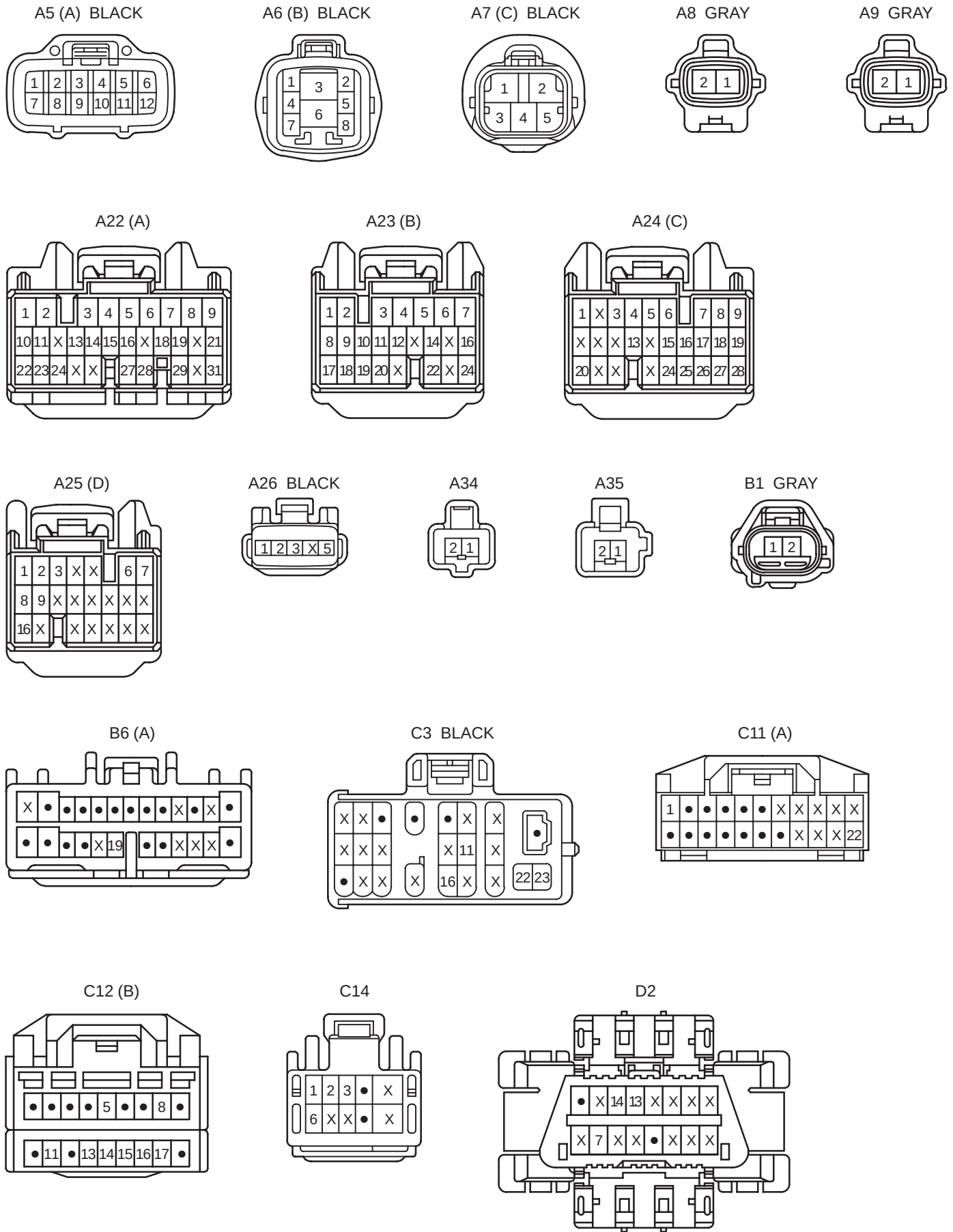
| Code | See Page | Junction Block and Wire Harness (Connector Location)         |
|------|----------|--------------------------------------------------------------|
| 1B   | 58 (RHD) | Engine Room Main Wire and Driver Side J/B (Right Kick Panel) |
| 1D   | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel) |
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |
| 1G   | 59 (RHD) |                                                              |
| 1H   |          |                                                              |

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

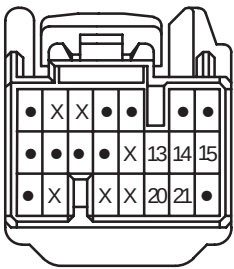
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)              |
|------|-----------|-------------------------------------------------------------------------|
| EA1  | 106 (RHD) | Engine Wire and Cowl Wire (Inside of the ECU Box)                       |
| EA2  |           |                                                                         |
| EA3  |           |                                                                         |
| IC1  | 108 (RHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                         |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column) |
| IK3  | 110 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)          |
| IM3  | 110 (RHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                        |

 : GROUND POINTS

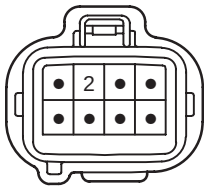
| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EA   | 106 (RHD) | Right Fender                       |
| EE   | 106 (RHD) | Under the ABS & TRC & VSC Actuator |
| IF   | 108 (RHD) | Left Kick Panel                    |
| II   | 108 (RHD) | Cowl Side Panel RH                 |



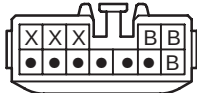
E6



H3 GRAY

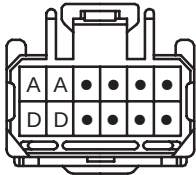


J25 BLACK



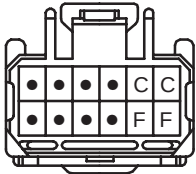
(Hint : See Page 7, 23, 39)

J27 (A)



(Hint : See Page 7, 23, 39)

J28 (B)



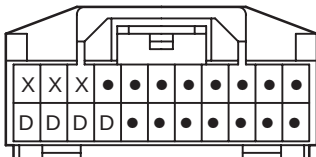
(Hint : See Page 7, 23, 39)

J29 BLUE



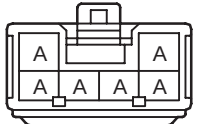
(Hint : See Page 7, 23, 39)

J31



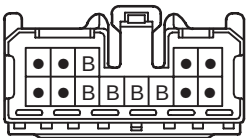
(Hint : See Page 7, 23, 39)

J32



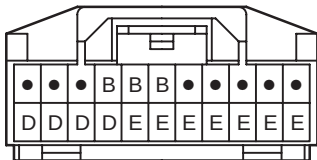
(Hint : See Page 7, 23, 39)

J35 GRAY



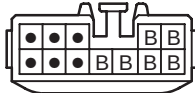
(Hint : See Page 7, 23, 39)

J36



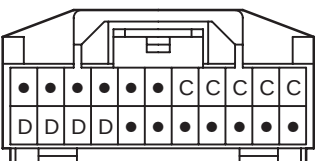
(Hint : See Page 7, 23, 39)

J37



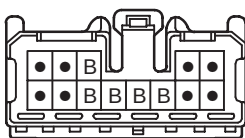
(Hint : See Page 7, 23, 39)

J38



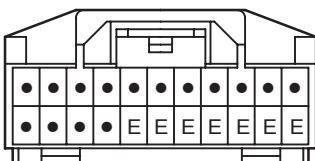
(Hint : See Page 7, 23, 39)

J39



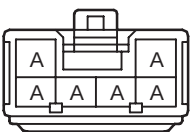
(Hint : See Page 7, 23, 39)

J41



(Hint : See Page 7, 23, 39)

J42



(Hint : See Page 7, 23, 39)

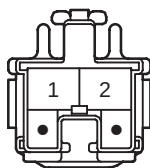
M1 BLACK



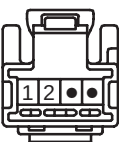
N1 GRAY



S12 BLUE



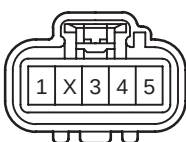
V4



V5 BLACK



Y1 BLACK





## SYSTEM OUTLINE

In this system, the wireless door lock ECU receives weak radio wave transmitted from the transmitter built-into the ignition key and outputs the signal to the body ECU No.2. Through communication control of the body ECU and door ECU etc. , all the doors and the luggage door can be locked and unlocked by the remote control.

### 1. NORMAL OPERATION

- \* Lock operation

When the lock SW on the transmitter is pressed, all the doors are locked.

- \* Unlock operation (G.C.C.)

When the unlock SW on the transmitter is pressed once, only the driver door is unlocked. When the unlock SW is pressed again within **3 sec.**, all the doors are unlocked.

- \* Unlock operation (Europe)

When the unlock SW on the transmitter is pressed, all the doors are unlocked.

- \* Luggage door unlock operation

When the luggage door unlock SW is kept pressed for approximately **1 sec.** or longer, the luggage door is opened.

### 2. AUTO LOCK FUNCTION

If the door is not actually opened within **30 sec.** after the door has been unlocked by pressing the unlock SW on the transmitter, all the doors are automatically locked. If any of the following conditions is detected, the auto lock does not function.

- \* Any door is opened.

- \* The ignition key is inserted into the ignition SW.

- \* When the lock detection SW of all the doors are locked.

### 3. WIRELESS DOOR LOCK STOP FUNCTION

If any of the following conditions is detected, the wireless door lock does not function.

- \* Lock operation

Any door is open (The door courtesy SW is on). The ignition key is inserted into the ignition key cylinder (The unlock warning SW is on). The ignition SW is turned to the **ON** position.

- \* Unlock operation

The ignition SW is turned to the **ON** position.

- \* Luggage door unlock operation

The ignition SW is turned to the **ON** position.

### 4. BUZZER SOUND FUNCTION (G.C.C.)

When the body ECU No.1 received the door lock signal from the door ECU via the door lock motor, during lock operation, the wireless door lock buzzer goes on once (for approximately **0.1 sec.**).

When the body ECU No.1 receives the door unlock signal from the door ECU via the door lock motor, during unlock operation, the wireless door lock buzzer goes on twice (for approximately **0.2 sec.** at intervals of **0.1 sec.**).

When the luggage door is unlocked, and the body ECU No.1 outputs the unlock signal, the wireless door lock buzzer goes on once (for approximately **0.5 sec.**).

When the ECU receives the lock signal from the transmitter while any door is open, the wireless door lock buzzer sounds for approximately **10 sec.** If the door is closed or if the unlock signal is received from the transmitter while the buzzer is sounding, the buzzer stops.

### 5. CAR FINDER FUNCTION (G.C.C.)

When the lock SW on the transmitter is pressed with all the doors locked, the body ECU No.1 receives the signal and the hazard light flashes once through communication control of the body ECU and door ECU etc.

### 6. ILLUMINATED ENTRY FUNCTION

When the ECU detects the unlock state after the unlock operation has been made, it turns on the room lights, such as the ignition key cylinder light for **15 sec.** If all the doors are locked during this operation, lighting is cancelled and the lights immediately fade out.

### 7. PANIC MODE FUNCTION (G.C.C.)

When the lock SW on the transmitter is kept pressed for approximately **2.5 sec.** , the body ECU No.1 receives the signal and enters the panic mode. The theft alarm goes on upon receiving the signal, the body ECU No.1, and the headlights and taillights flash through the communication of the body ECU and door ECU etc. . At this time, when any SW on the transmitter is pressed, the panic mode is cancelled, the theft alarm is stopped, and the headlights and taillights go off.

### 8. REPEAT FUNCTION

If the lock detection signal in response to the output signal is not received after the body ECU No.1 has output the lock signal, the lock signal is output again after approximately **2 sec.**

# WIRELESS DOOR LOCK CONTROL (LHD)

## SERVICE HINTS

### W6 WIRELESS DOOR LOCK ECU

- 1-GROUND : Always continuity
- 7-GROUND : Always approx. 12 volts

### L5 LUGGAGE COMPARTMENT DOOR OPENER MOTOR

- 1-GROUND : Approx. 12 volts with luggage door open operate

### D16 DOOR LOCK MOTOR, DOOR KEY LOCK AND UNLOCK SW AND DOOR LOCK DETECTION SW FRONT LH

- 2-GROUND : Approx. 12 volts with door lock motor at lock operate
- 1-GROUND : Approx. 12 volts with door lock motor at unlock operate
- 5-3 : Closed with door lock cylinder locked with key
- 6-3 : Closed with door lock cylinder unlocked with key

### D17 DOOR LOCK MOTOR, DOOR KEY LOCK AND UNLOCK SW AND DOOR LOCK DETECTION SW FRONT RH

- 6-GROUND : Approx. 12 volts with door lock motor at lock operate
- 5-GROUND : Approx. 12 volts with door lock motor at unlock operate
- 2-4 : Closed with door lock cylinder locked with key
- 1-4 : Closed with door lock cylinder unlocked with key

### D14 DOOR LOCK MOTOR AND DOOR LOCK DETECTION SW REAR LH

- 2-GROUND : Approx. 12 volts with door lock motor at lock operate
- 1-GROUND : Approx. 12 volts with door lock motor at unlock operate

### D15 DOOR LOCK MOTOR AND DOOR LOCK DETECTION SW REAR RH

- 4-GROUND : Approx. 12 volts with door lock motor at lock operate
- 3-GROUND : Approx. 12 volts with door lock motor at unlock operate

## : PARTS LOCATION

| Code |   | See Page | Code |   | See Page | Code | See Page |
|------|---|----------|------|---|----------|------|----------|
| A16  |   | 72 (LHD) | D18  | A | 76 (LHD) | J18  | 74 (LHD) |
| B5   | A | 72 (LHD) | D19  | B | 76 (LHD) | J22  | 78 (LHD) |
| B6   | A | 72 (LHD) | D20  | C | 76 (LHD) | L5   | 78 (LHD) |
| C12  |   | 72 (LHD) | E5   |   | 68 (LHD) | M2   | 74 (LHD) |
| D8   |   | 76 (LHD) | F11  | A | 76 (LHD) | P11  | 78 (LHD) |
| D9   |   | 76 (LHD) | F12  | B | 76 (LHD) | P19  | 80 (LHD) |
| D10  |   | 76 (LHD) | F13  | C | 76 (LHD) | R13  | 78 (LHD) |
| D11  |   | 76 (LHD) | H20  |   | 72 (LHD) | R14  | 78 (LHD) |
| D13  |   | 76 (LHD) | J7   |   | 74 (LHD) | T5   | 74 (LHD) |
| D14  |   | 76 (LHD) | J8   |   | 74 (LHD) | W5   | 70 (LHD) |
| D15  |   | 76 (LHD) | J10  |   | 74 (LHD) | W6   | 78 (LHD) |
| D16  |   | 76 (LHD) | J13  |   | 74 (LHD) |      |          |
| D17  |   | 76 (LHD) | J16  |   | 74 (LHD) |      |          |

## : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)             |
|------|----------|-------------------------------------------------|
| 1    | 54 (LHD) | Engine Room No.1 R/B (Engine Compartment Right) |

## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)            |
|------|----------|-----------------------------------------------------------------|
| 1E   | 58 (LHD) | Floor No.2 Wire and Driver Side J/B (Left Kick Panel)           |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)                 |
| 1G   | 59 (LHD) |                                                                 |
| 1H   | 59 (LHD) |                                                                 |
| 2B   | 60 (LHD) | Engine Room Main Wire and Passenger Side J/B (Right Kick Panel) |
| 2E   | 60 (LHD) | Floor No.1 Wire and Passenger Side J/B (Right Kick Panel)       |
| 2F   | 60 (LHD) | Cowl Wire and Passenger Side J/B (Right Kick Panel)             |
| 2G   | 61 (LHD) |                                                                 |
| 2H   | 61 (LHD) |                                                                 |

**: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS**

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)             |
|------|-----------|------------------------------------------------------------------------|
| IB1  | 98 (LHD)  | Front Door LH Wire and Cowl Wire (Left Kick Panel)                     |
| IC1  | 98 (LHD)  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                        |
| IC2  |           |                                                                        |
| IC3  |           |                                                                        |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column) |
| IJ1  | 100 (LHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)     |
| IJ2  |           |                                                                        |
| IK1  | 100 (LHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                    |
| IL1  | 100 (LHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                       |
| IL3  |           |                                                                        |
| BA1  | 102 (LHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)     |
| BB1  | 102 (LHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)     |
| BC1  | 104 (LHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)       |

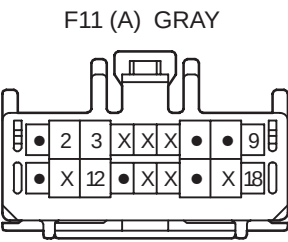
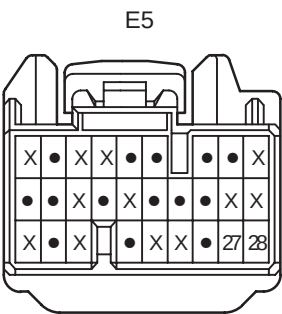
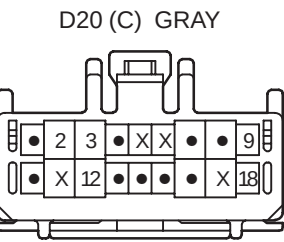
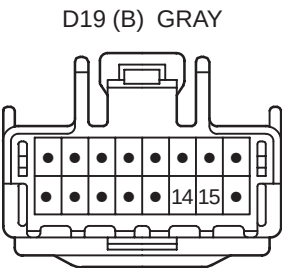
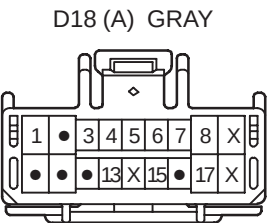
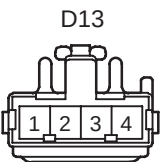
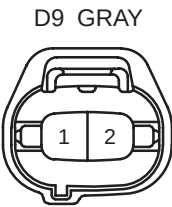
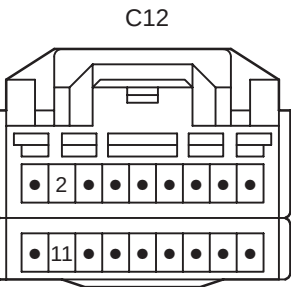
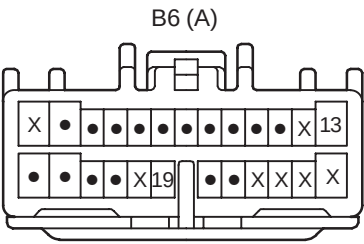
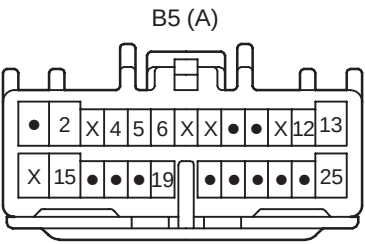
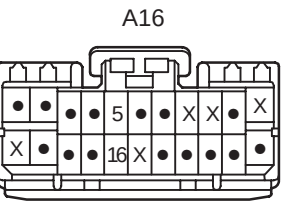
**: GROUND POINTS**

| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| IF   | 98 (LHD)  | Left Kick Panel               |
| II   | 98 (LHD)  | Right Side of the Cowl Panel  |
| BJ   | 102 (LHD) | Rear Floor Partition Panel LH |
| BL   | 102 (LHD) | Rear Floor Partition Panel RH |
| BM   | 102 (LHD) | Quarter Panel RH              |

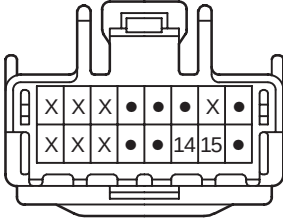
**: SPLICE POINTS**

| Code | See Page  | Wire Harness with Splice Points | Code | See Page | Wire Harness with Splice Points |
|------|-----------|---------------------------------|------|----------|---------------------------------|
| I6   | 100 (LHD) | Cowl Wire                       |      |          |                                 |

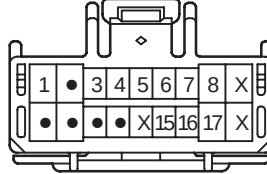
WIRELESS DOOR LOCK CONTROL (LHD)



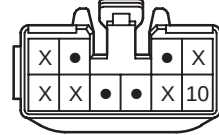
F12 (B) GRAY



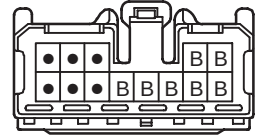
F13 (C) GRAY



H20 BLACK

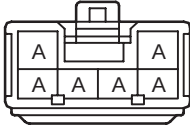


J7 GRAY



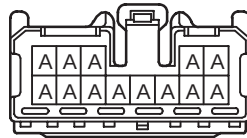
(Hint : See Page 7, 23, 39)

J8



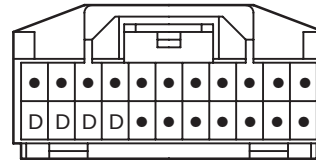
(Hint : See Page 7, 23, 39)

J10 ORANGE



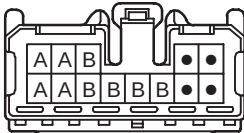
(Hint : See Page 7, 23, 39)

J13



(Hint : See Page 7, 23, 39)

J16



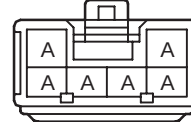
(Hint : See Page 7, 23, 39)

J18



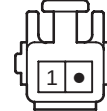
(Hint : See Page 7, 23, 39)

J22

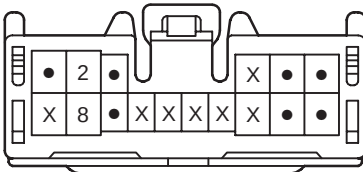


(Hint : See Page 7, 23, 39)

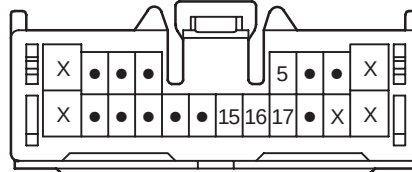
L5 BLACK



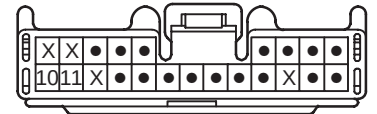
M2 BLUE



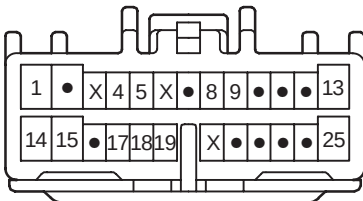
P11



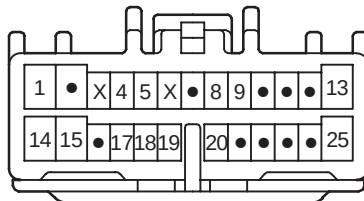
P19



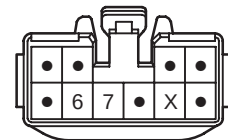
R13



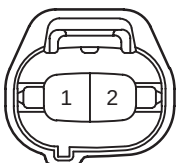
R14



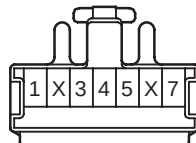
T5 GRAY



W5 BLACK



W6



## SYSTEM OUTLINE

In this system, the wireless door lock ECU receives weak radio wave transmitted from the transmitter built-into the ignition key and outputs the signal to the body ECU No.2. Through communication control of the body ECU and door ECU etc. , all the doors and the luggage door can be locked and unlocked by the remote control.

### 1. NORMAL OPERATION

- \* Lock operation  
When the lock SW on the transmitter is pressed, all the doors are locked.
- \* Unlock operation (Australia)  
When the unlock SW on the transmitter is pressed once, only the driver door is unlocked. When the unlock SW is pressed again within **3 sec.**, all the doors are unlocked.
- \* Unlock operation (Europe)  
When the unlock SW on the transmitter is pressed, all the doors are unlocked.
- \* Luggage door unlock operation  
When the luggage door unlock SW is kept pressed for approximately **1 sec.** or longer, the luggage door is opened.

### 2. AUTO LOCK FUNCTION

If the door is not actually opened within **30 sec.** after the door has been unlocked by pressing the unlock SW on the transmitter, all the doors are automatically locked. If any of the following conditions is detected, the auto lock does not function.

- \* Any door is opened.
- \* The ignition key is inserted into the ignition SW.
- \* When the lock detection SW of all the doors are locked.

### 3. WIRELESS DOOR LOCK STOP FUNCTION

If any of the following conditions is detected, the wireless door lock does not function.

- \* Lock operation  
Any door is open (The door courtesy SW is on). The ignition key is inserted into the ignition key cylinder (The unlock warning SW is on). The ignition SW is turned to the **ON** position.
- \* Unlock operation  
The ignition SW is turned to the **ON** position.
- \* Luggage door unlock operation  
The ignition SW is turned to the **ON** position.

### 4. BUZZER SOUND FUNCTION (Australia)

When the body ECU No.1 received the door lock signal from the door ECU via the door lock motor, during lock operation, the wireless door lock buzzer goes on once (for approximately **0.1 sec.**).

When the body ECU No.1 receives the door unlock signal from the door ECU via the door lock motor, during unlock operation, the wireless door lock buzzer goes on twice (for approximately **0.2 sec.** at intervals of **0.1 sec.**).

When the luggage door is unlocked, and the body ECU No.1 outputs the unlock signal, the wireless door lock buzzer goes on once (for approximately **0.5 sec.**).

When the ECU receives the lock signal from the transmitter while any door is open, the wireless door lock buzzer sounds for approximately **10 sec.** If the door is closed or if the unlock signal is received from the transmitter while the buzzer is sounding, the buzzer stops.

### 5. CAR FINDER FUNCTION (Australia)

When the lock SW on the transmitter is pressed with all the doors locked, the body ECU No.1 receives the signal and the hazard light flashes once through communication control of the body ECU and door ECU etc.

### 6. ILLUMINATED ENTRY FUNCTION

When the ECU detects the unlock state after the unlock operation has been made, it turns on the room lights, such as the ignition key cylinder light for **15 sec.** If all the doors are locked during this operation, lighting is cancelled and the lights immediately fade out.

### 7. PANIC MODE FUNCTION (Australia)

When the lock SW on the transmitter is kept pressed for approximately **2.5 sec.** , the body ECU No.1 receives the signal and enters the panic mode. The theft alarm goes on upon receiving the signal, the body ECU No.1, and the headlights and taillights flash through the communication of the body ECU and door ECU etc. . At this time, when any SW on the transmitter is pressed, the panic mode is cancelled, the theft alarm is stopped, and the headlights and taillights go off.

### 8. REPEAT FUNCTION

If the lock detection signal in response to the output signal is not received after the body ECU No.1 has output the lock signal, the lock signal is output again after approximately **2 sec.**

# WIRELESS DOOR LOCK CONTROL (RHD)

## SERVICE HINTS

### W6 WIRELESS DOOR LOCK ECU

- 1-GROUND : Always continuity
- 7-GROUND : Always approx. 12 volts

### L5 LUGGAGE COMPARTMENT DOOR OPENER MOTOR

- 1-GROUND : Approx. 12 volts with luggage door open operate

### D16 DOOR LOCK MOTOR, DOOR KEY LOCK AND UNLOCK SW AND DOOR LOCK DETECTION SW FRONT LH

- 2-GROUND : Approx. 12 volts with door lock motor at lock operate
- 1-GROUND : Approx. 12 volts with door lock motor at unlock operate
- 5-3 : Closed with door lock cylinder locked with key
- 6-3 : Closed with door lock cylinder unlocked with key

### D17 DOOR LOCK MOTOR, DOOR KEY LOCK AND UNLOCK SW AND DOOR LOCK DETECTION SW FRONT RH

- 6-GROUND : Approx. 12 volts with door lock motor at lock operate
- 5-GROUND : Approx. 12 volts with door lock motor at unlock operate
- 2-4 : Closed with door lock cylinder locked with key
- 1-4 : Closed with door lock cylinder unlocked with key

### D14 DOOR LOCK MOTOR AND DOOR LOCK DETECTION SW REAR LH

- 2-GROUND : Approx. 12 volts with door lock motor at lock operate
- 1-GROUND : Approx. 12 volts with door lock motor at unlock operate

### D15 DOOR LOCK MOTOR AND DOOR LOCK DETECTION SW REAR RH

- 4-GROUND : Approx. 12 volts with door lock motor at lock operate
- 3-GROUND : Approx. 12 volts with door lock motor at unlock operate

## ○ : PARTS LOCATION

| Code |   | See Page |  | Code |   | See Page |  | Code |          | See Page |  |
|------|---|----------|--|------|---|----------|--|------|----------|----------|--|
| A16  |   | 86 (RHD) |  | D18  | A | 90 (RHD) |  | J42  | 88 (RHD) |          |  |
| B5   | A | 86 (RHD) |  | D19  | B | 90 (RHD) |  | J45  | 90 (RHD) |          |  |
| B6   | A | 86 (RHD) |  | D20  | C | 90 (RHD) |  | L5   | 90 (RHD) |          |  |
| C12  |   | 86 (RHD) |  | E5   |   | 82 (RHD) |  | M2   | 88 (RHD) |          |  |
| D8   |   | 90 (RHD) |  | F11  | A | 90 (RHD) |  | P11  | 92 (RHD) |          |  |
| D9   |   | 90 (RHD) |  | F12  | B | 90 (RHD) |  | P19  | 94 (RHD) |          |  |
| D10  |   | 90 (RHD) |  | F13  | C | 90 (RHD) |  | R13  | 92 (RHD) |          |  |
| D11  |   | 90 (RHD) |  | H20  |   | 86 (RHD) |  | R14  | 92 (RHD) |          |  |
| D12  |   | 90 (RHD) |  | J31  |   | 88 (RHD) |  | T5   | 88 (RHD) |          |  |
| D14  |   | 90 (RHD) |  | J32  |   | 88 (RHD) |  | W5   | 84 (RHD) |          |  |
| D15  |   | 90 (RHD) |  | J37  |   | 88 (RHD) |  | W6   | 92 (RHD) |          |  |
| D16  |   | 90 (RHD) |  | J38  |   | 88 (RHD) |  |      |          |          |  |
| D17  |   | 90 (RHD) |  | J41  |   | 88 (RHD) |  |      |          |          |  |

## ○ : RELAY BLOCKS

| Code | See Page | Relay Blocks (Relay Block Location)            |
|------|----------|------------------------------------------------|
| 1    | 54 (RHD) | Engine Room No.1 R/B (Engine Compartment Left) |

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)           |
|------|----------|----------------------------------------------------------------|
| 1E   | 58 (RHD) | Floor No.1 Wire and Driver Side J/B (Right Kick Panel)         |
| 1F   | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)               |
| 1G   | 59 (RHD) |                                                                |
| 1H   |          |                                                                |
| 2B   | 60 (RHD) | Engine Room Main Wire and Passenger Side J/B (Left Kick Panel) |
| 2E   | 60 (RHD) | Floor No.2 Wire and Passenger Side J/B (Left Kick Panel)       |
| 2F   | 60 (RHD) | Cowl Wire and Passenger Side J/B (Left Kick Panel)             |
| 2G   | 61 (RHD) |                                                                |
| 2H   |          |                                                                |

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

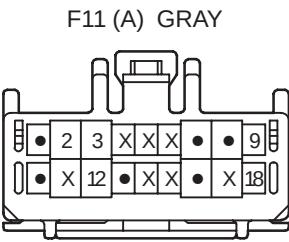
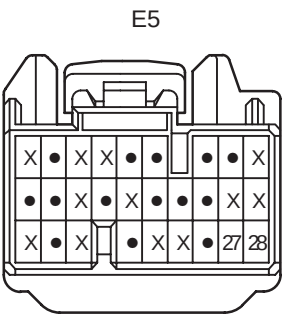
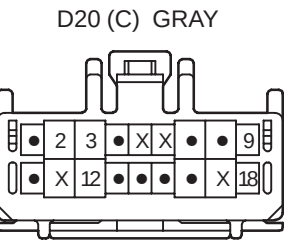
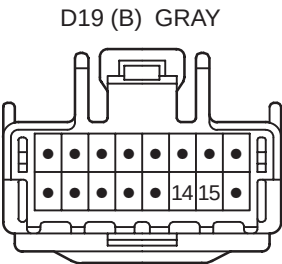
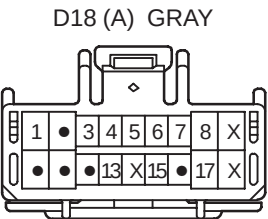
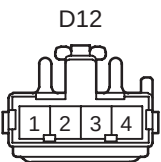
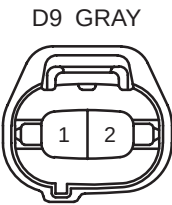
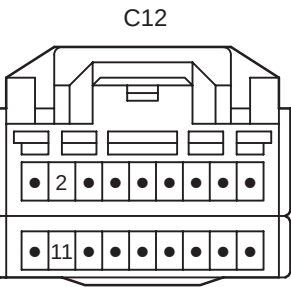
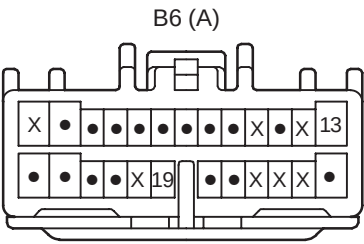
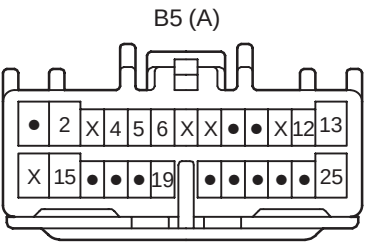
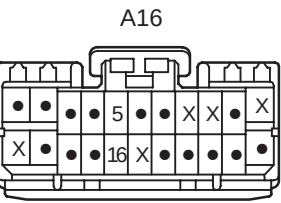
| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|-----------|---------------------------------------------------------------------------|
| IB1  | 108 (RHD) | Front Door LH Wire and Cowl Wire (Left Kick Panel)                        |
| IC1  | 108 (RHD) | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                           |
| IC2  |           |                                                                           |
| IC3  |           |                                                                           |
| ID1  | 108 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)       |
| ID3  |           |                                                                           |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column)   |
| IK3  | 110 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)            |
| IL1  | 110 (RHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                       |
| IM1  | 110 (RHD) | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                          |
| IM3  |           |                                                                           |
| BA1  | 112 (RHD) | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH)        |
| BB1  | 112 (RHD) | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH)        |
| BC1  | 114 (RHD) | Floor No.2 Wire and Front Seat LH Wire (Under the Front Passenger's Seat) |
| BD1  | 114 (RHD) | Floor No.1 Wire and Front Seat RH Wire (Under the Driver's Seat)          |

 : GROUND POINTS

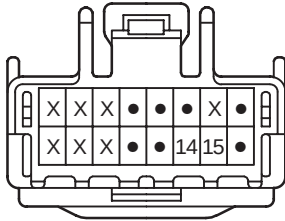
| Code | See Page  | Ground Points Location        |
|------|-----------|-------------------------------|
| IF   | 108 (RHD) | Left Kick Panel               |
| IG   | 108 (RHD) | Behind the Combination Meter  |
| II   | 108 (RHD) | Cowl Side Panel RH            |
| BJ   | 112 (RHD) | Rear Floor Partition Panel LH |
| BL   | 112 (RHD) | Rear Floor Partition Panel RH |
| BM   | 112 (RHD) | Quarter Panel RH              |



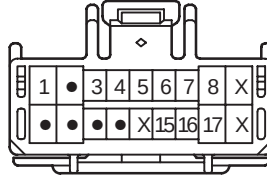
WIRELESS DOOR LOCK CONTROL (RHD)



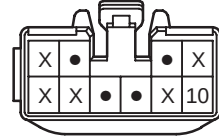
F12 (B) GRAY



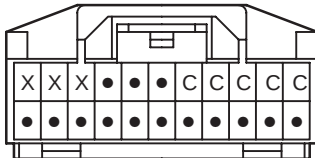
F13 (C) GRAY



H20 BLACK

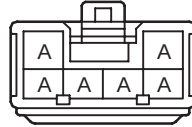


J31



(Hint : See Page 7, 23, 39)

J32



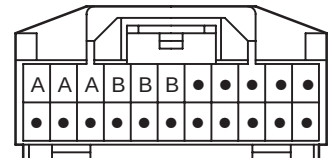
(Hint : See Page 7, 23, 39)

J37



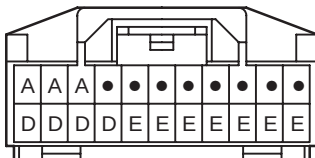
(Hint : See Page 7, 23, 39)

J38



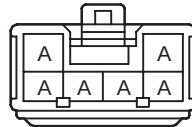
(Hint : See Page 7, 23, 39)

J41



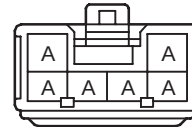
(Hint : See Page 7, 23, 39)

J42



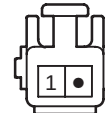
(Hint : See Page 7, 23, 39)

J45

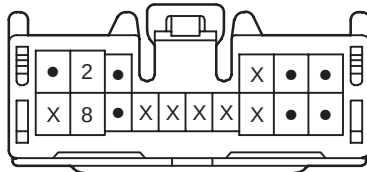


(Hint : See Page 7, 23, 39)

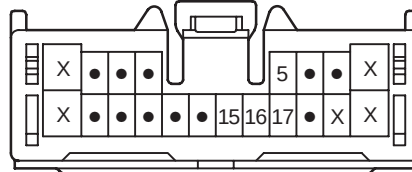
L5 BLACK



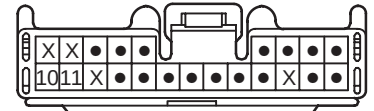
M2 BLUE



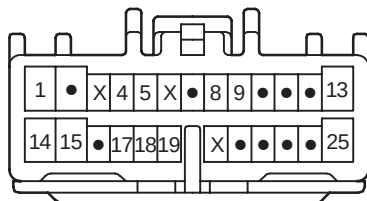
P11



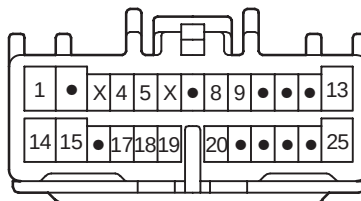
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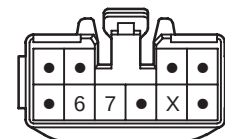
R13



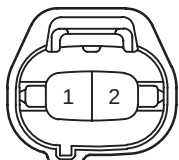
R14



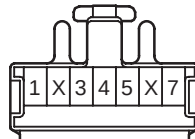
T5 GRAY



W5 BLACK



W6



## SYSTEM OUTLINE

With the ignition SW turned on, the current flows to **TERMINAL 17** of the front wiper and washer SW, and **TERMINAL 2** of the front wiper motor through the **WIPER** fuse, **TERMINAL 2** of washer motor through the **WASHER** fuse.

### 1. LOW SPEED POSITION

With wiper SW turned to **LO** position, the current flows from **TERMINAL 17** of the front wiper and washer SW to **TERMINAL 7** to **TERMINAL 5** of the front wiper motor to **TERMINAL 4** to **GROUND** and causes the front wiper motor to run at low speed.

### 2. HIGH SPEED POSITION

With wiper SW turned to **HI** position, the current flows from **TERMINAL 17** of the front wiper and washer SW to **TERMINAL 8** to **TERMINAL 3** of the front wiper motor to **TERMINAL 4** to **GROUND** and causes the front wiper motor to run at high speed.

### 3. INT POSITION

With wiper SW turned to **INT** position, the relay operates and the current which is connected by relay function flows from **TERMINAL 17** of the front wiper and washer SW to **TERMINAL 2** to **GROUND**. This flow of current operates the intermittent circuit and the current flows from **TERMINAL 17** of the front wiper and washer SW to **TERMINAL 7** to **TERMINAL 5** of the front wiper motor to **TERMINAL 4** to **GROUND** and operates the wiper.

The intermittent operation is controlled by the charge/discharge function of the condenser installed in the relay, and the intermittent time is controlled by a time control SW to change the charging time of the condenser.

### 4. MIST POSITION

With wiper SW turn **MIST** position, the current flows from **TERMINAL 17** of the front wiper and washer SW to **TERMINAL 7** to **TERMINAL 5** of the wiper motor to **TERMINAL 4** to **GROUND** and causes the wiper motor to run at low speed.

### 5. WASHER CONTINUOUS OPERATION

With washer SW turned to on, the current flows from **TERMINAL 2** of the washer motor to **TERMINAL 1** to **TERMINAL 11** of the front wiper and washer SW to **TERMINAL 2** to **GROUND** and causes to the washer motor to run, and the window washer emits a water spray. This causes the current to flow to washer continuous operation circuit in **TERMINAL 17** of the front wiper and washer SW to **TERMINAL 7** to **TERMINAL 5** of the front wiper motor to **TERMINAL 4** to **GROUND** and operates the wiper.

## SERVICE HINTS

### C16 (A), (B) FRONT WIPER AND WASHER SW [COMB. SW]

(A) 2, (B) 8-GROUND : Always continuity

(A)17, (B) 11-GROUND : Approx. **12** volts with the ignition SW at **ON** or **ST** position

(A) 7, (B) 3-GROUND : Approx. **12** volts with the front wiper and washer SW at **LO** position

Approx. **12** volts **2** to **12** seconds intermittently with the front wiper and washer SW at **INT** position

(A)16, (B) 12-GROUND : Approx. **12** volts with the ignition SW on unless the front wiper motor at **STOP** position

(A) 8, (B) 2-GROUND : Approx. **12** volts with the front wiper and washer SW at **HI** position

### F7 (A), (B) FRONT WIPER MOTOR

(A) 2-(A) 1, (B) 2-(B) 3 : Closed unless the wiper motor at **STOP** position

## ○ : PARTS LOCATION

| Code |   | See Page | Code |          | See Page | Code     | See Page |
|------|---|----------|------|----------|----------|----------|----------|
| C11  | A | 72 (LHD) | F7   | A        | 68 (LHD) | J42      | 88 (RHD) |
|      |   | 86 (RHD) |      | B        | 82 (RHD) | W1       | 70 (LHD) |
| C12  | B | 72 (LHD) | J8   | 74 (LHD) | W2       |          | 84 (RHD) |
|      |   | 86 (RHD) | J10  | 74 (LHD) |          | 70 (LHD) |          |
| C16  | A | 72 (LHD) | J12  | 74 (LHD) |          | 84 (RHD) |          |
|      |   | 86 (RHD) | J29  | 84 (RHD) |          |          |          |
|      | B | 86 (RHD) | J35  | 88 (RHD) |          |          |          |

# WIPER AND WASHER



## : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| Code | See Page | Junction Block and Wire Harness (Connector Location)         |
|------|----------|--------------------------------------------------------------|
| 1B   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 58 (RHD) | Engine Room Main Wire and Driver Side J/B (Right Kick Panel) |
| 1D   | 58 (LHD) | Instrument Panel Wire and Driver Side J/B (Left Kick Panel)  |
|      | 58 (RHD) | Instrument Panel Wire and Driver Side J/B (Right Kick Panel) |
| 1F   | 58 (LHD) | Cowl Wire and Driver Side J/B (Left Kick Panel)              |
|      | 58 (RHD) | Cowl Wire and Driver Side J/B (Right Kick Panel)             |



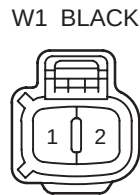
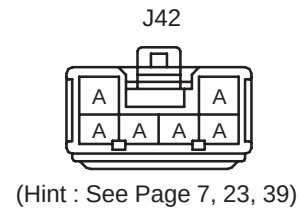
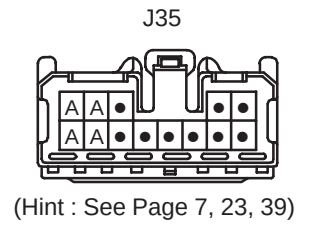
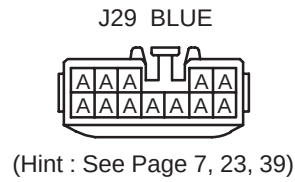
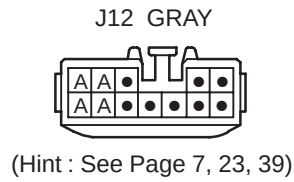
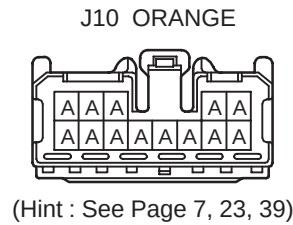
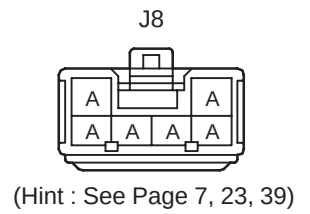
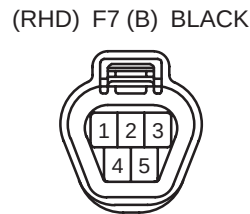
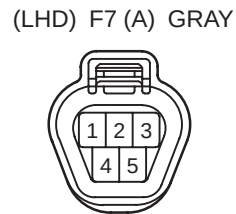
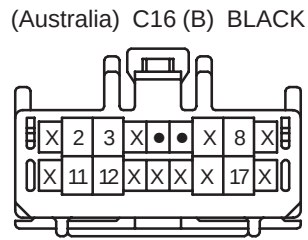
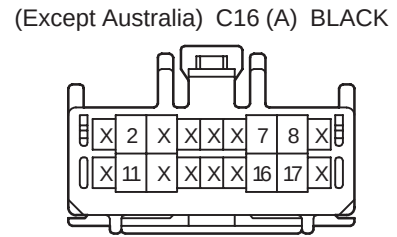
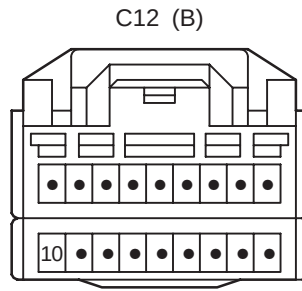
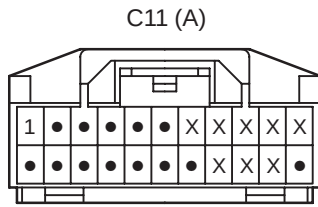
## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| Code | See Page  | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|-----------|---------------------------------------------------------------------------|
| ID1  | 98 (LHD)  | Cowl Wire and Cowl Wire (Left Side of the Instrument Panel Reinforcement) |
| IE1  | 98 (LHD)  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column)    |
| II1  | 110 (RHD) | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)         |
| IJ1  | 110 (RHD) | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)        |
| IK1  | 110 (RHD) | Front Door RH Wire and Cowl Wire (Right Kick Panel)                       |



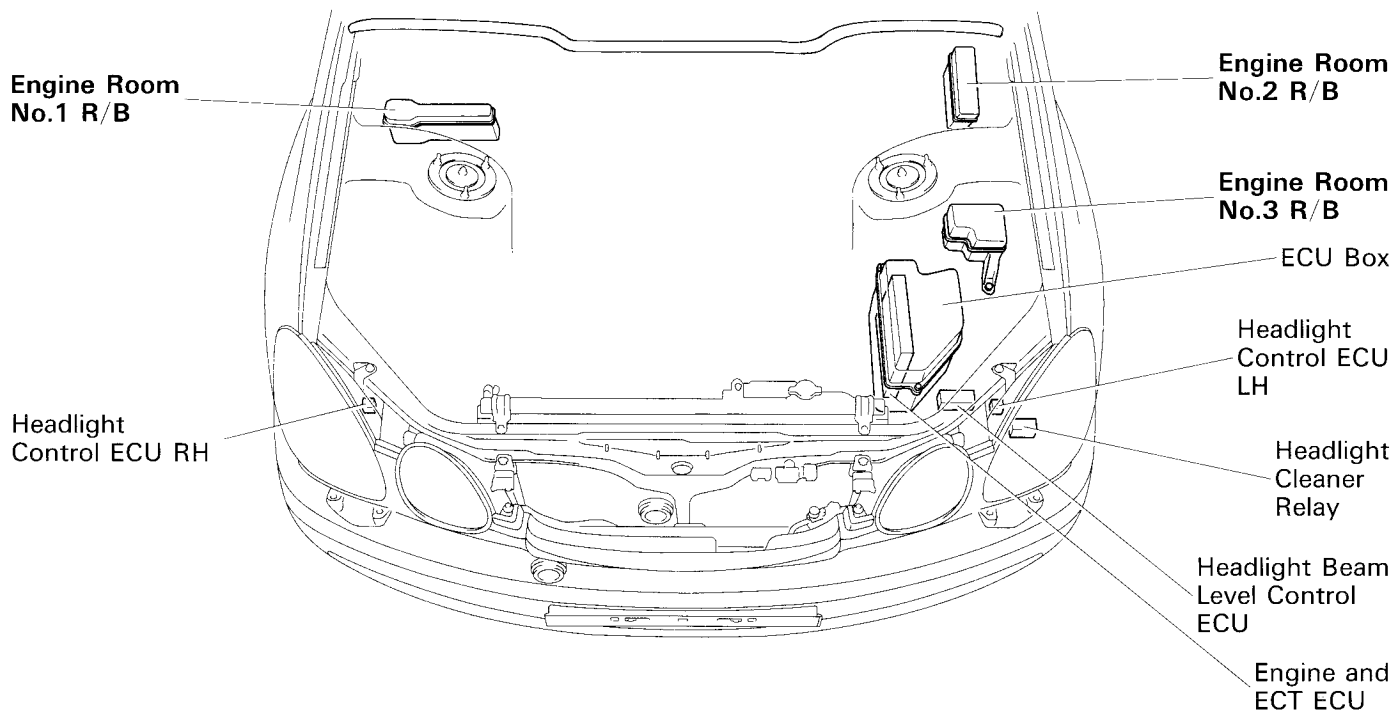
## : GROUND POINTS

| Code | See Page  | Ground Points Location             |
|------|-----------|------------------------------------|
| EB   | 96 (LHD)  | Left Fender                        |
|      | 106 (RHD) |                                    |
| EE   | 106 (RHD) | Under the ABS & TRC & VSC Actuator |
| IF   | 98 (LHD)  | Left Kick Panel                    |
| II   | 108 (RHD) | Cowl Side Panel RH                 |

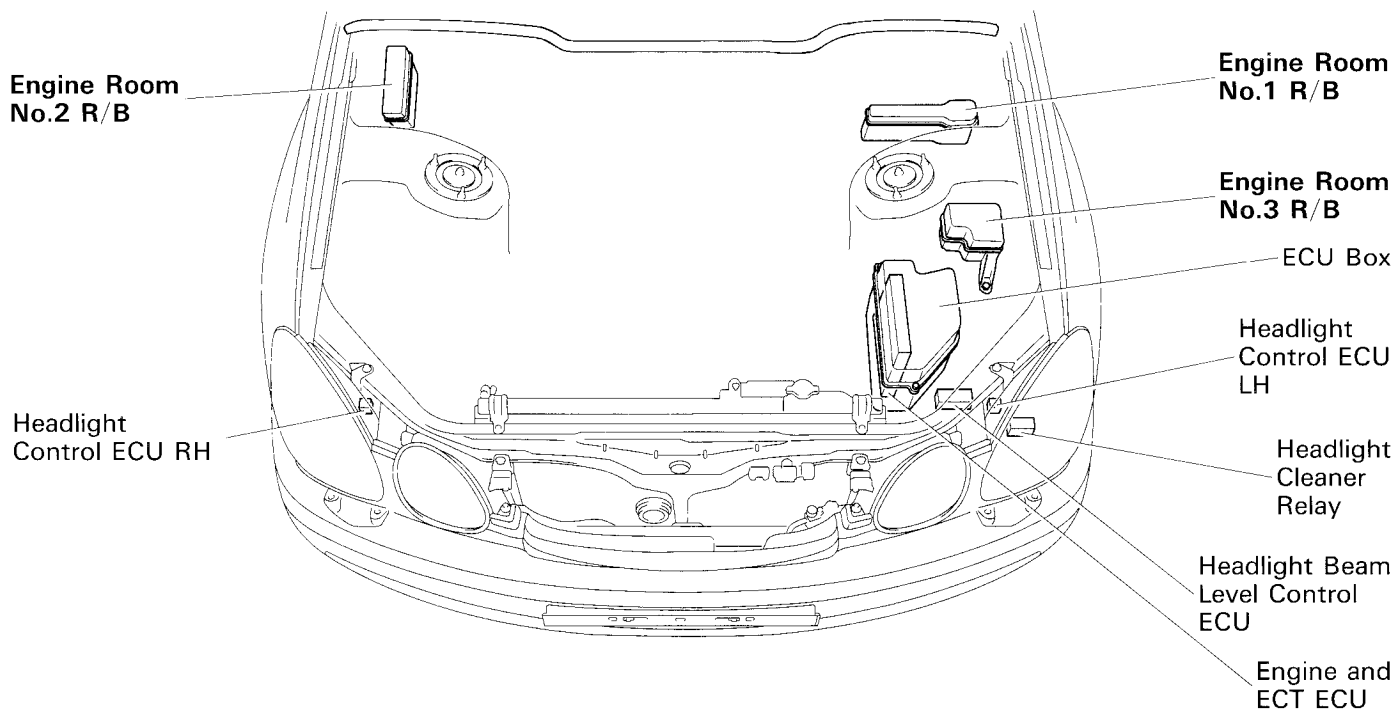


## F RELAY LOCATIONS

### [Engine Compartment] (LHD)

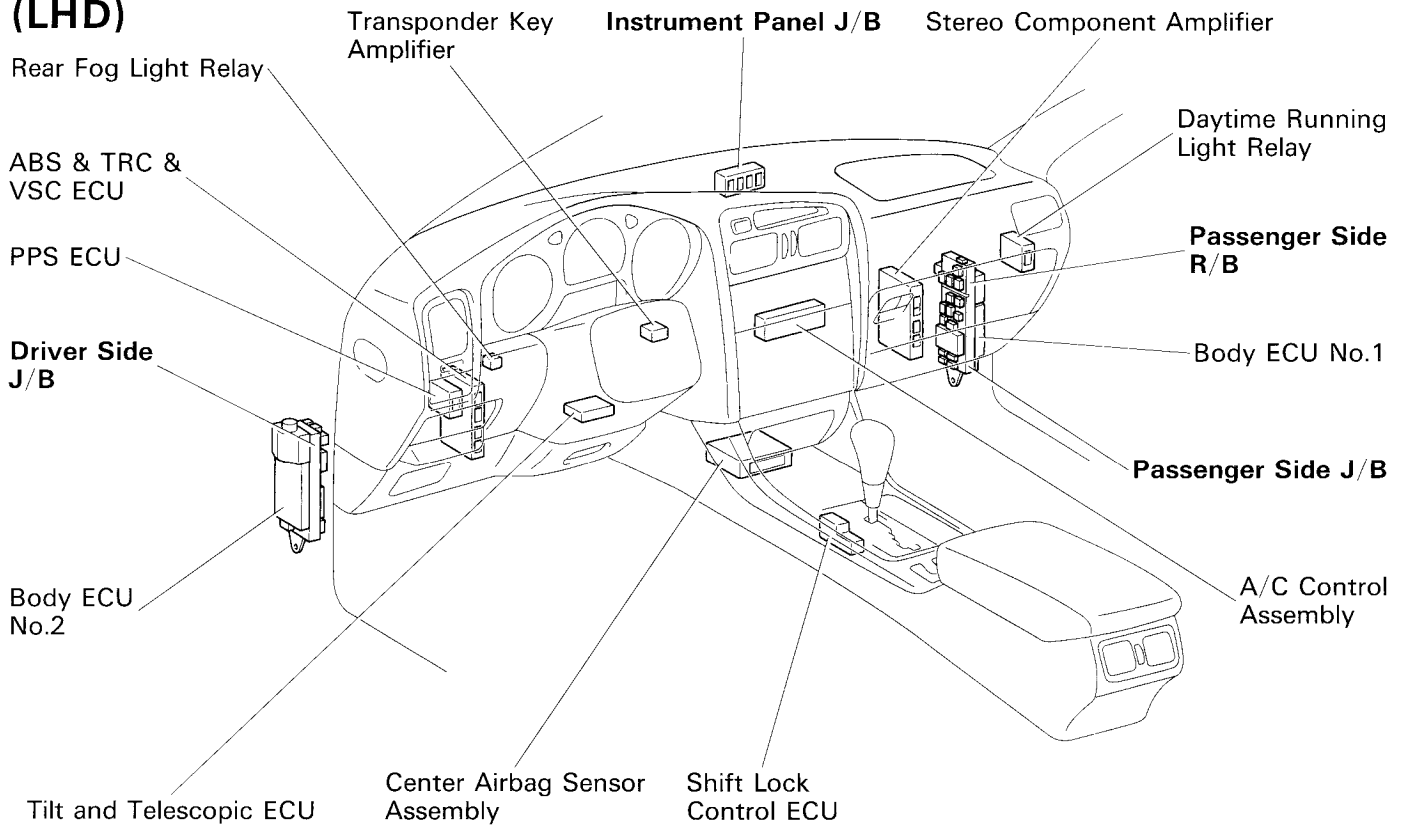


### (RHD)



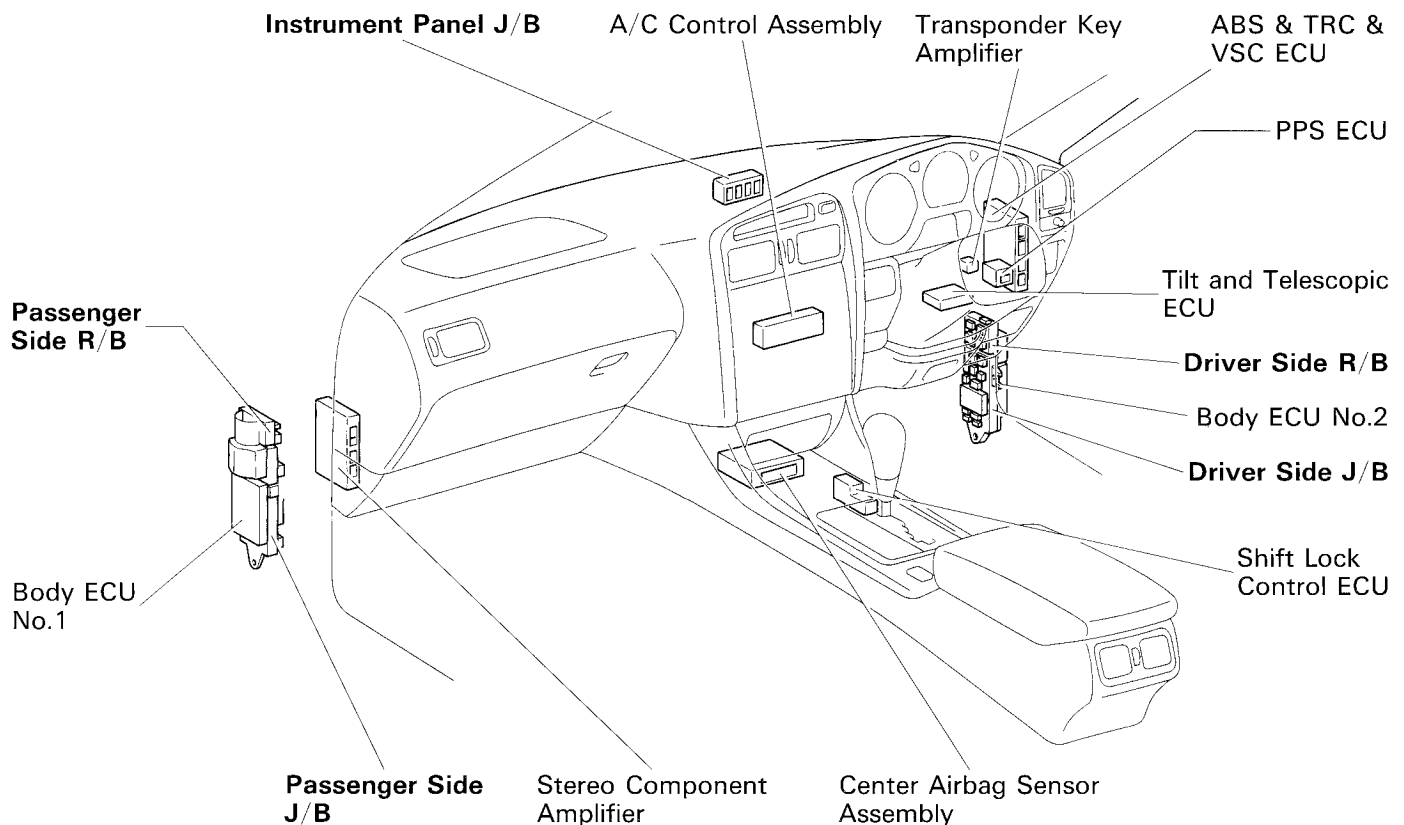
# [Instrument Panel]

## (LHD)



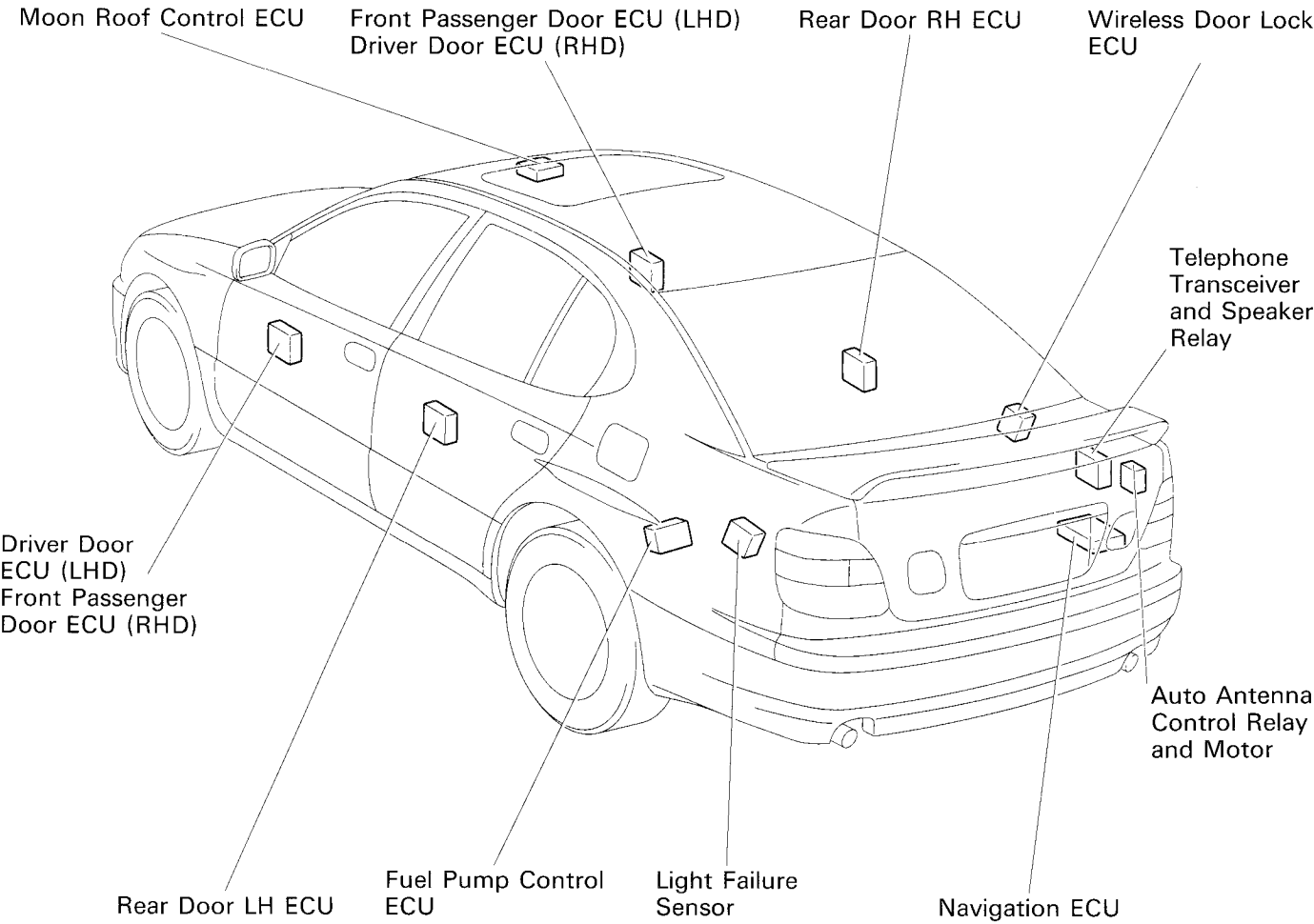
English

## (RHD)

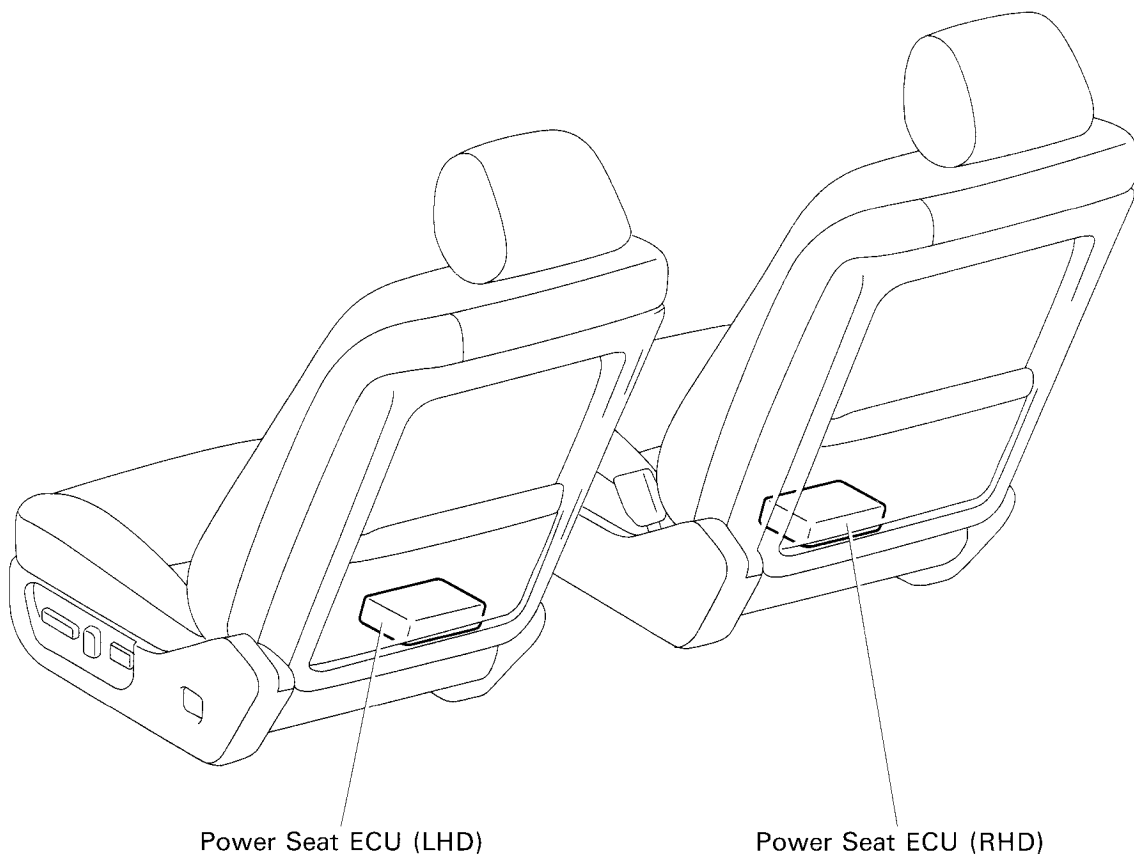


F RELAY LOCATIONS

[Body]

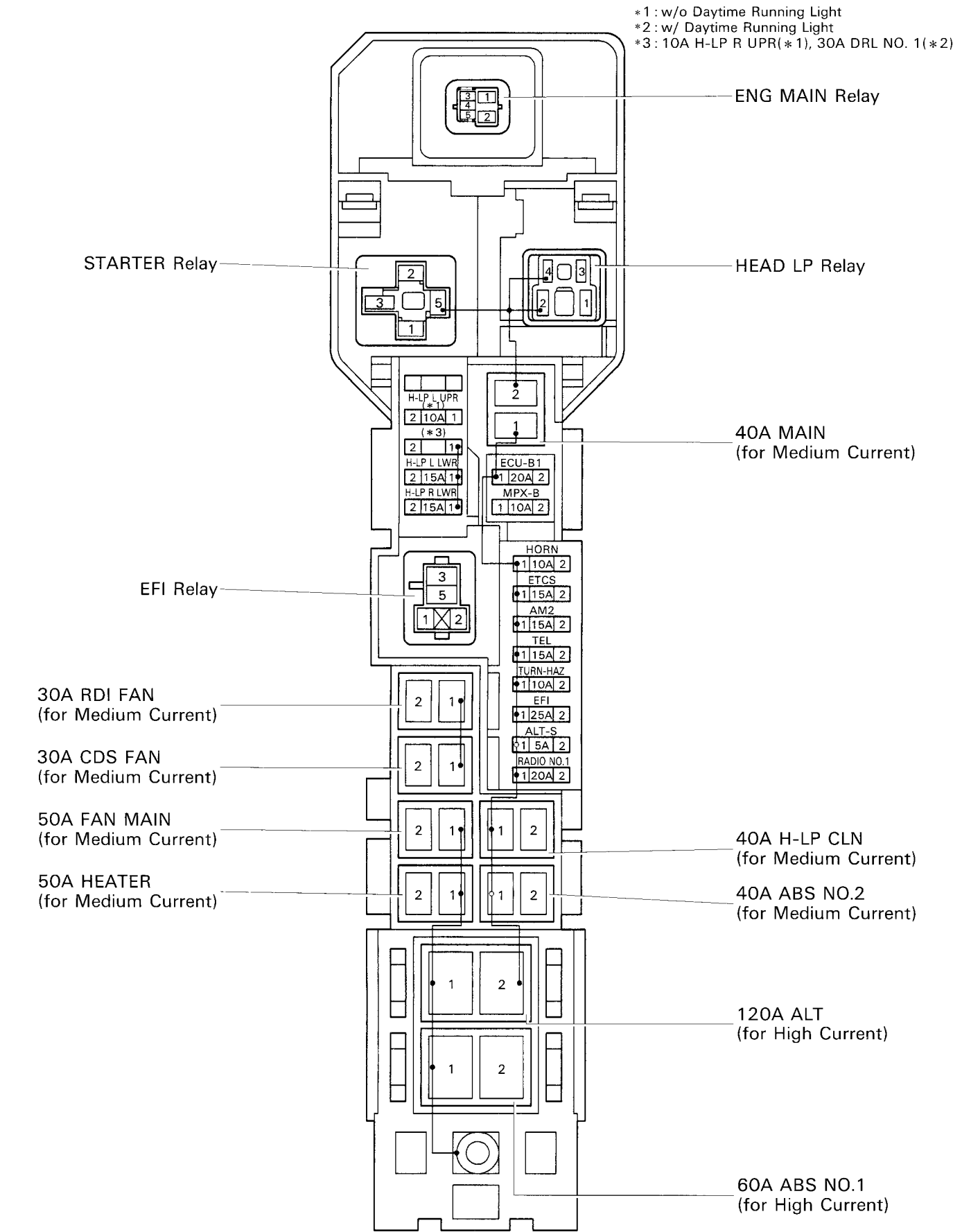




**[Seat]**

F RELAY LOCATIONS

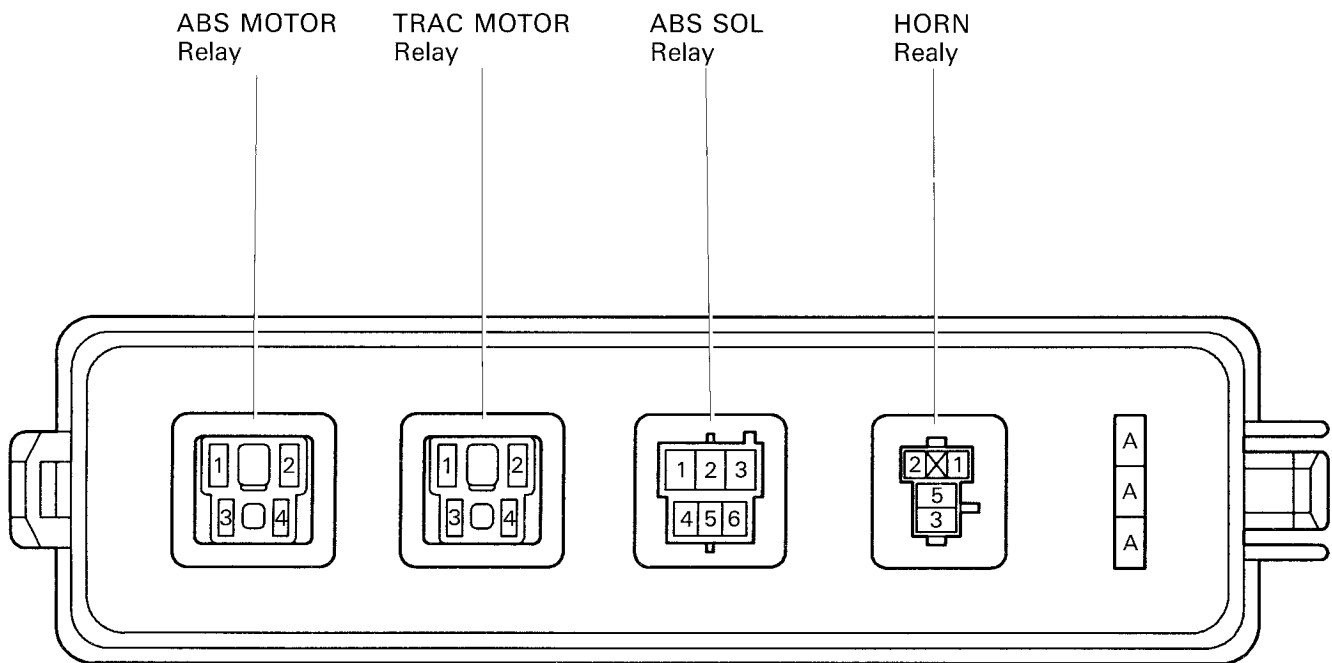
|                          |                                              |
|--------------------------|----------------------------------------------|
| ① : Engine Room No.1 R/B | LHD : Engine Compartment Right (See Page 50) |
|                          | RHD : Engine Compartment Left (See Page 50)  |



② : Engine Room No.2 R/B

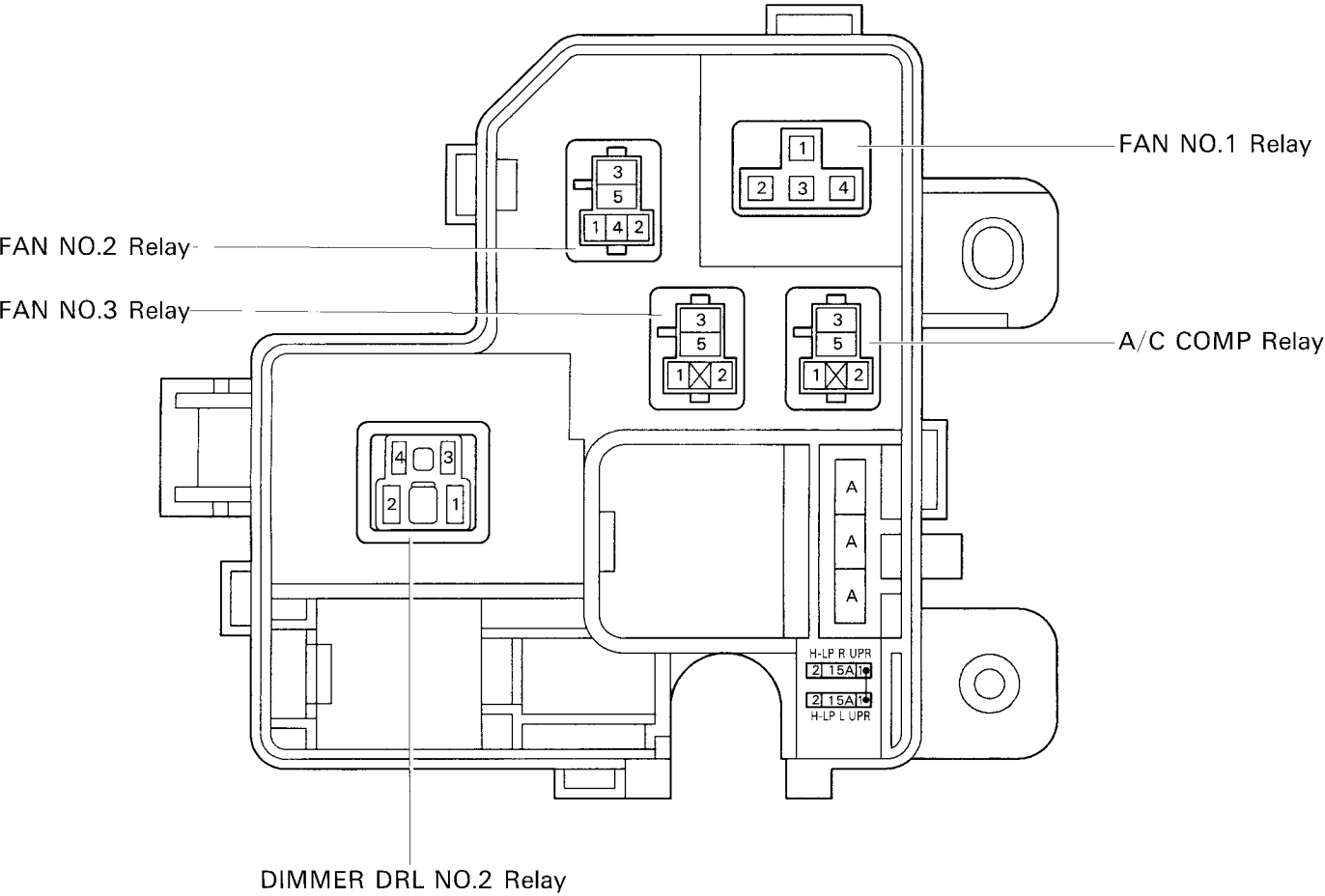
LHD : Engine Compartment Left (See Page 50)

RHD : Engine Compartment Right (See Page 50)



F RELAY LOCATIONS

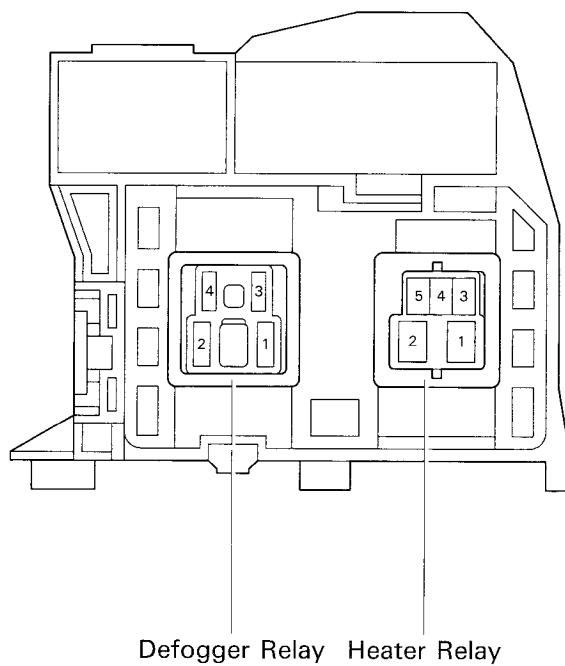
③ : Engine Room No.3 R/B    Engine Compartment Left (See Page 50)



④ : Passenger Side R/B

LHD : Right Kick Panel (See Page 51)

RHD : Left Kick Panel (See Page 51)

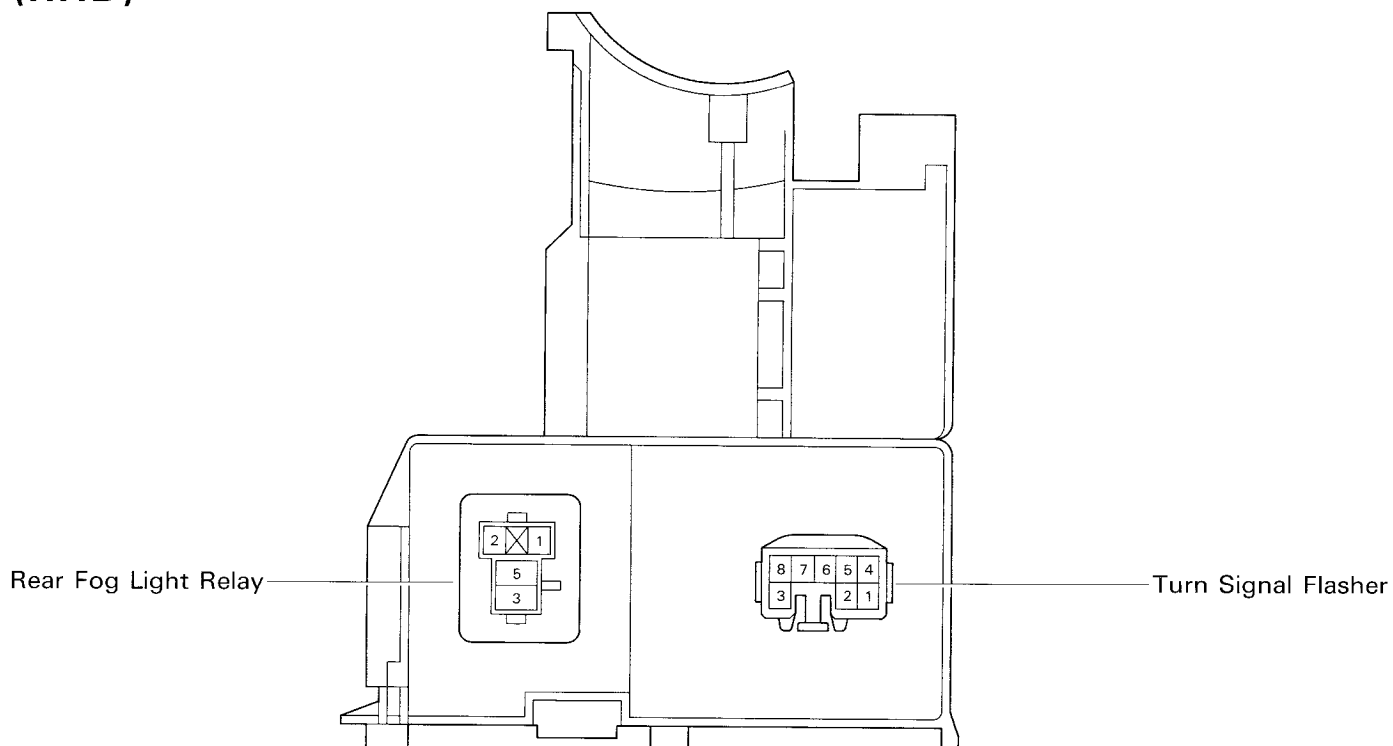


English

⑤ : Driver Side R/B

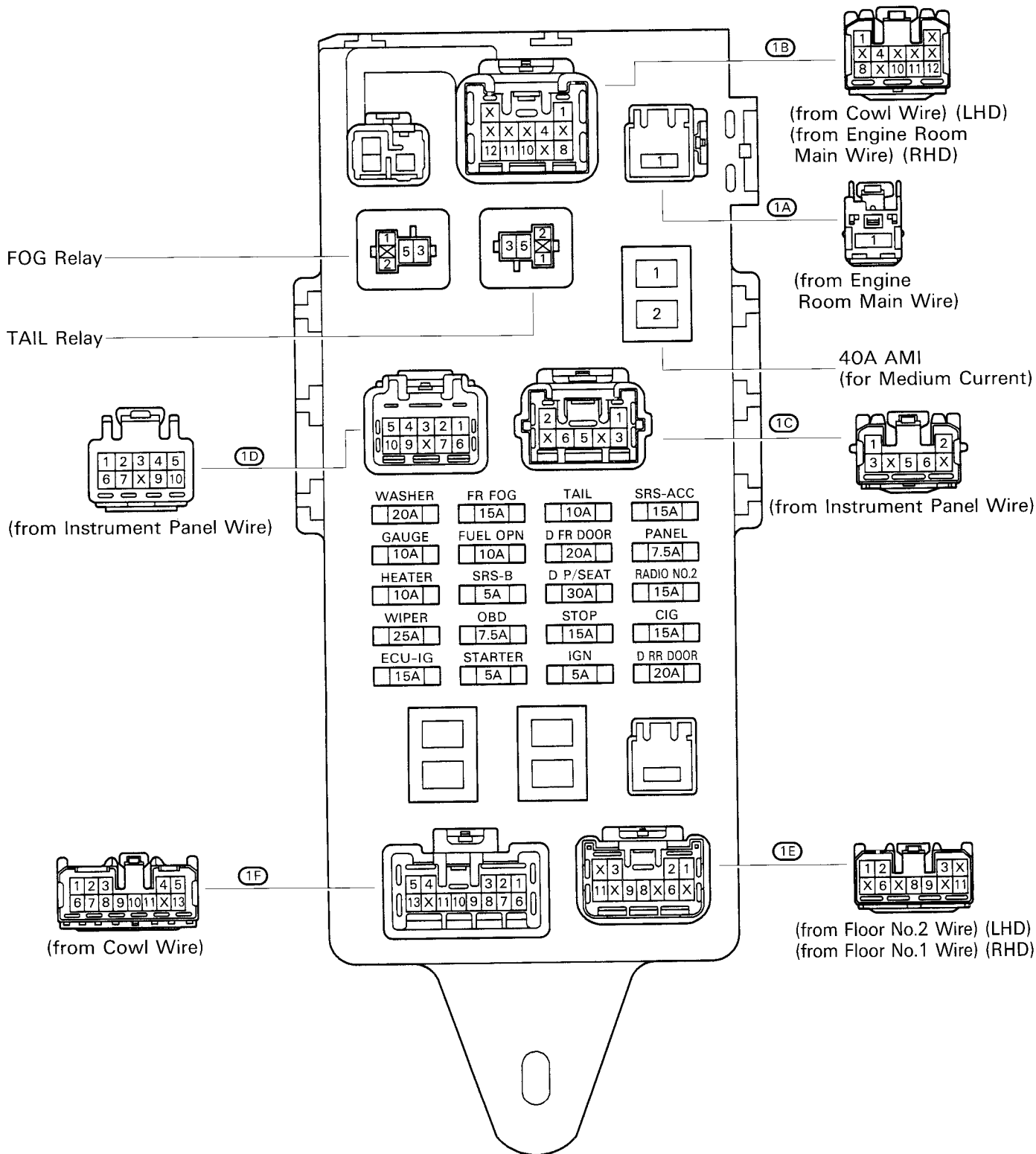
Right Kick Panel (See Page 51)

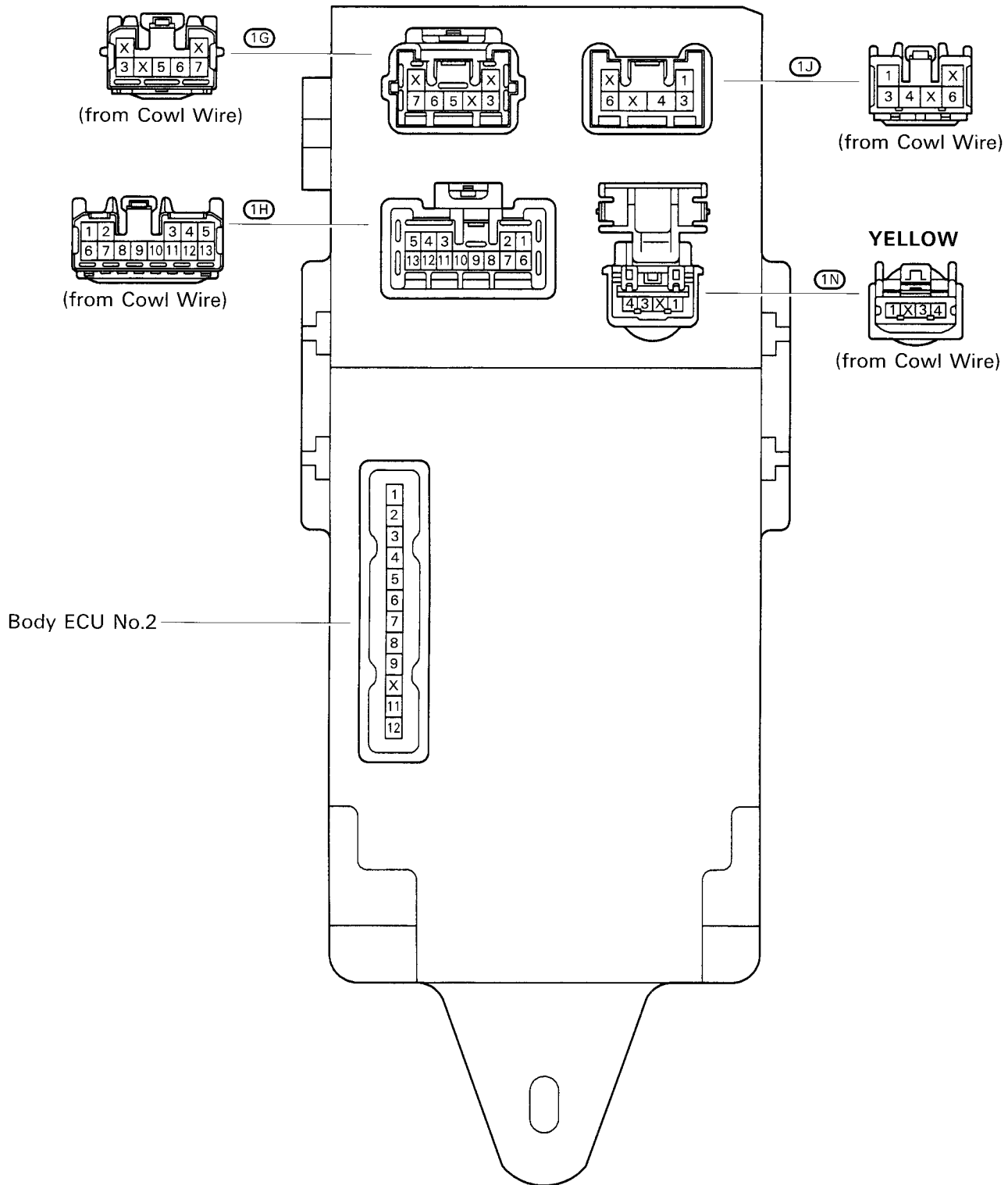
(RHD)



# F RELAY LOCATIONS

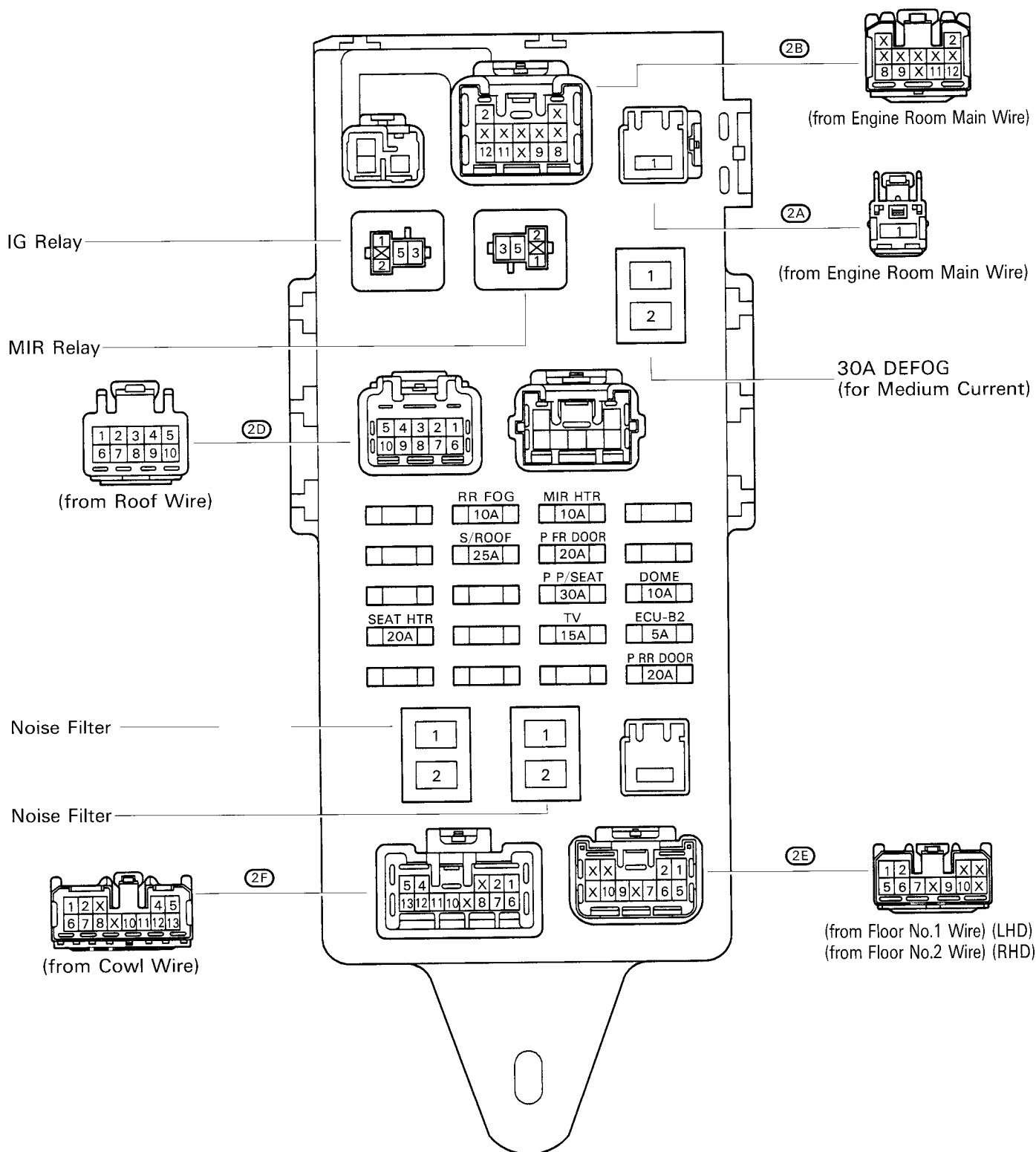
|                     |                                      |
|---------------------|--------------------------------------|
| ○ : Driver Side J/B | LHD : Left Kick Panel (See Page 51)  |
|                     | RHD : Right Kick Panel (See Page 51) |



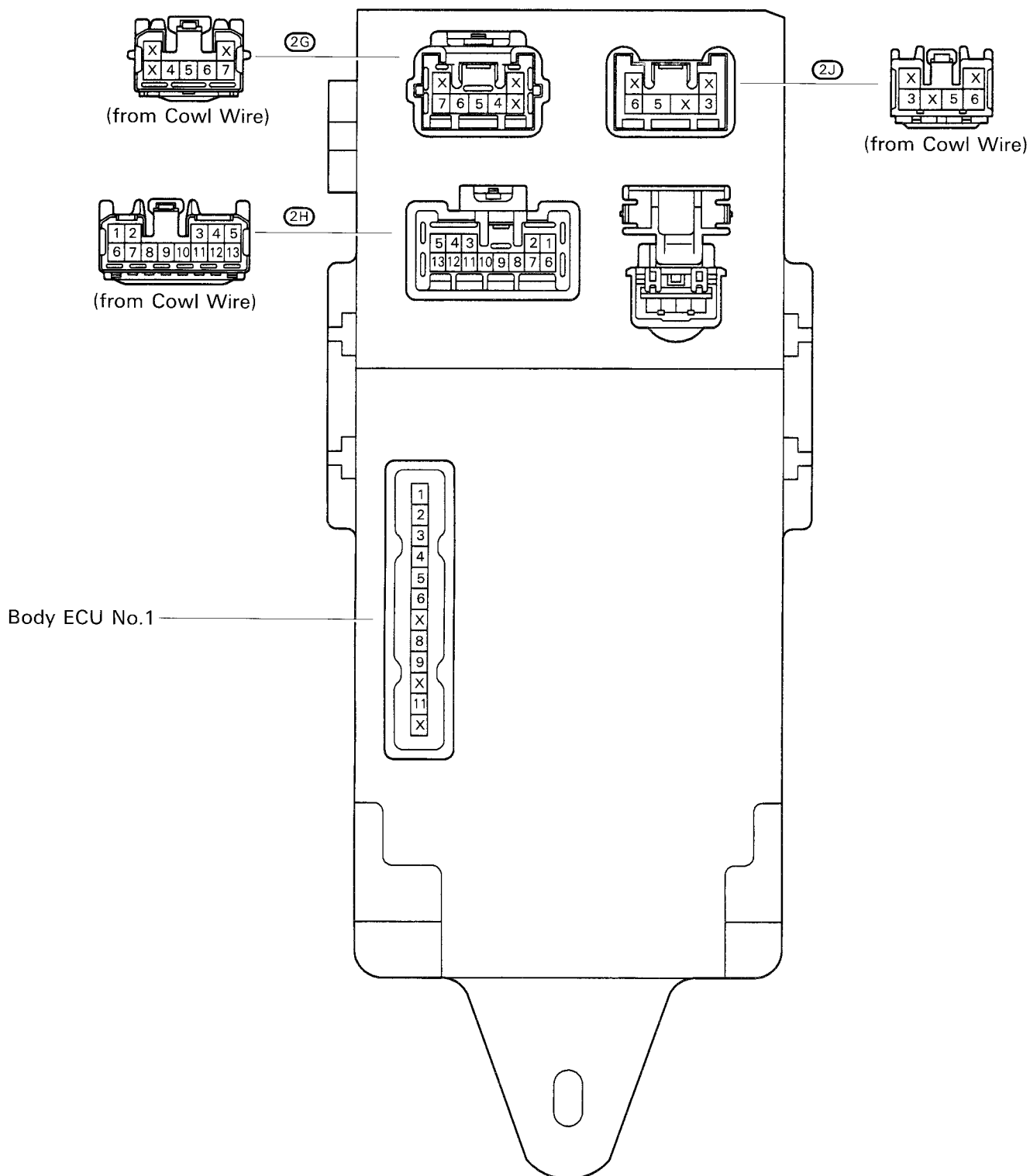


# F RELAY LOCATIONS

|                        |                                      |
|------------------------|--------------------------------------|
| ○ : Passenger Side J/B | LHD : Right Kick Panel (See Page 51) |
|                        | RHD : Left Kick Panel (See Page 51)  |

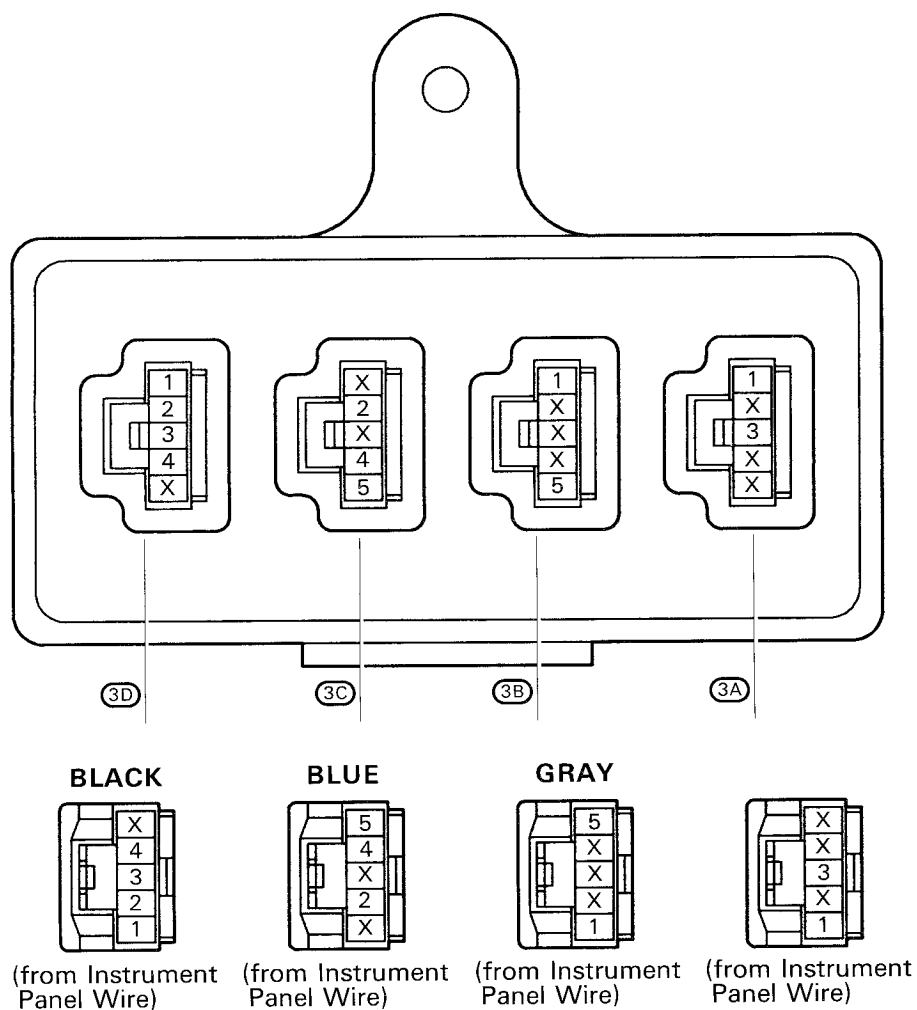


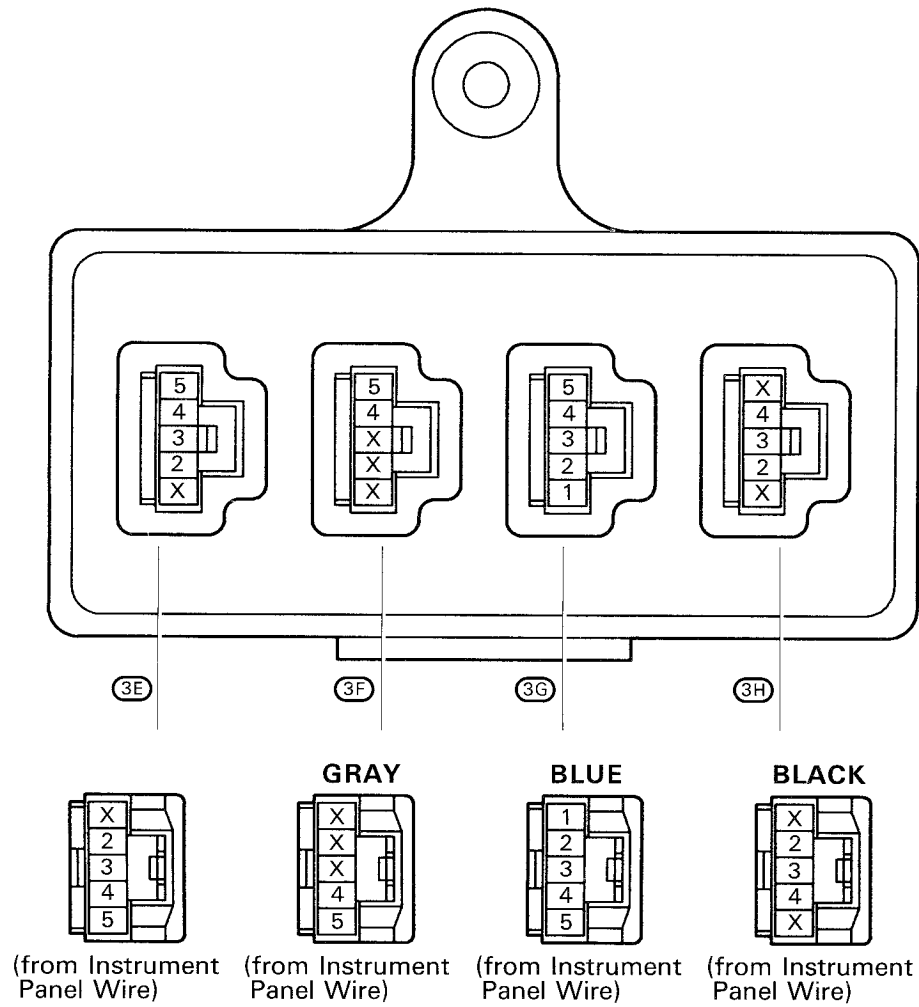




## F RELAY LOCATIONS

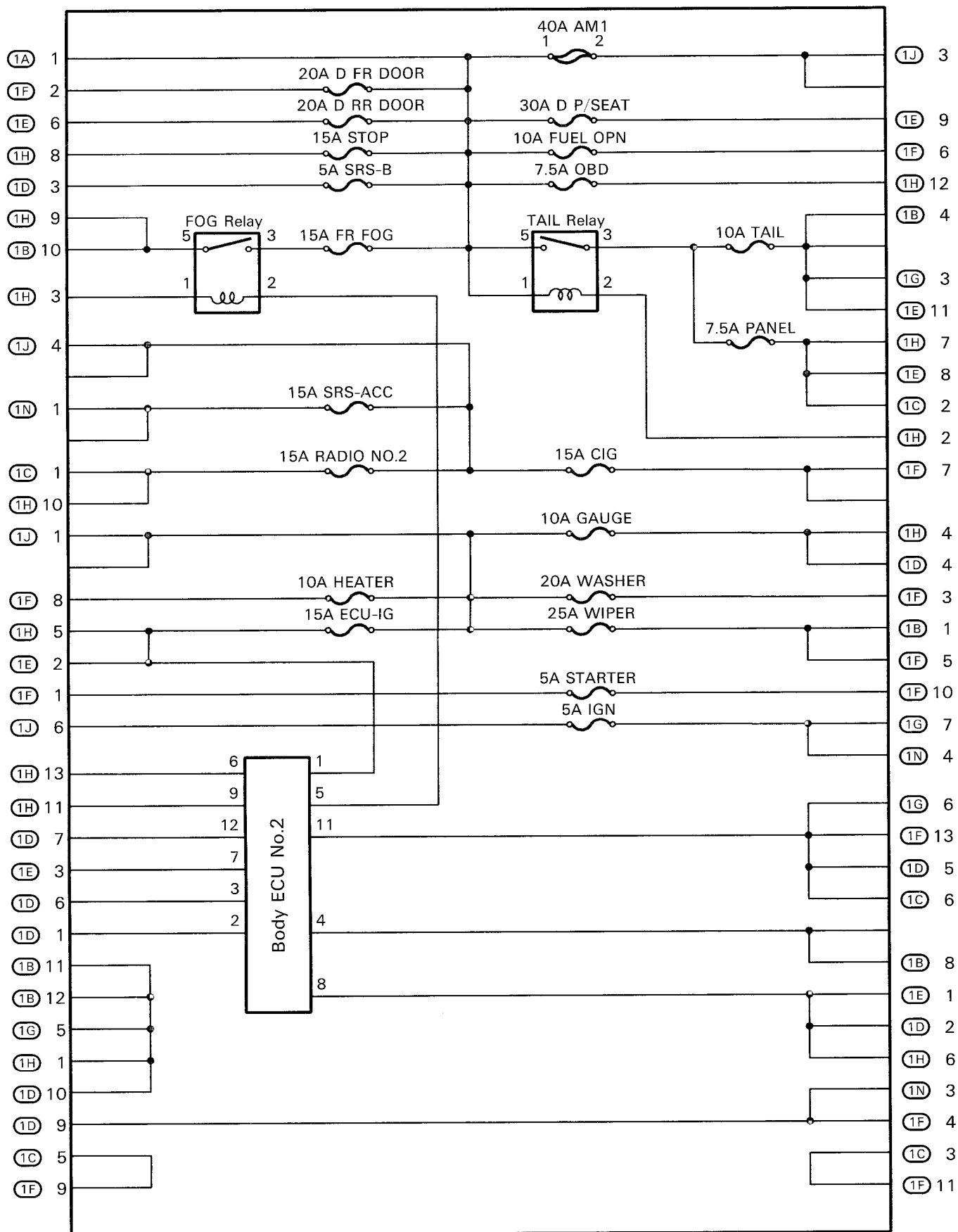
○ : Instrument Panel J/B    Instrument Panel Reinforcement Center (See Page 51)



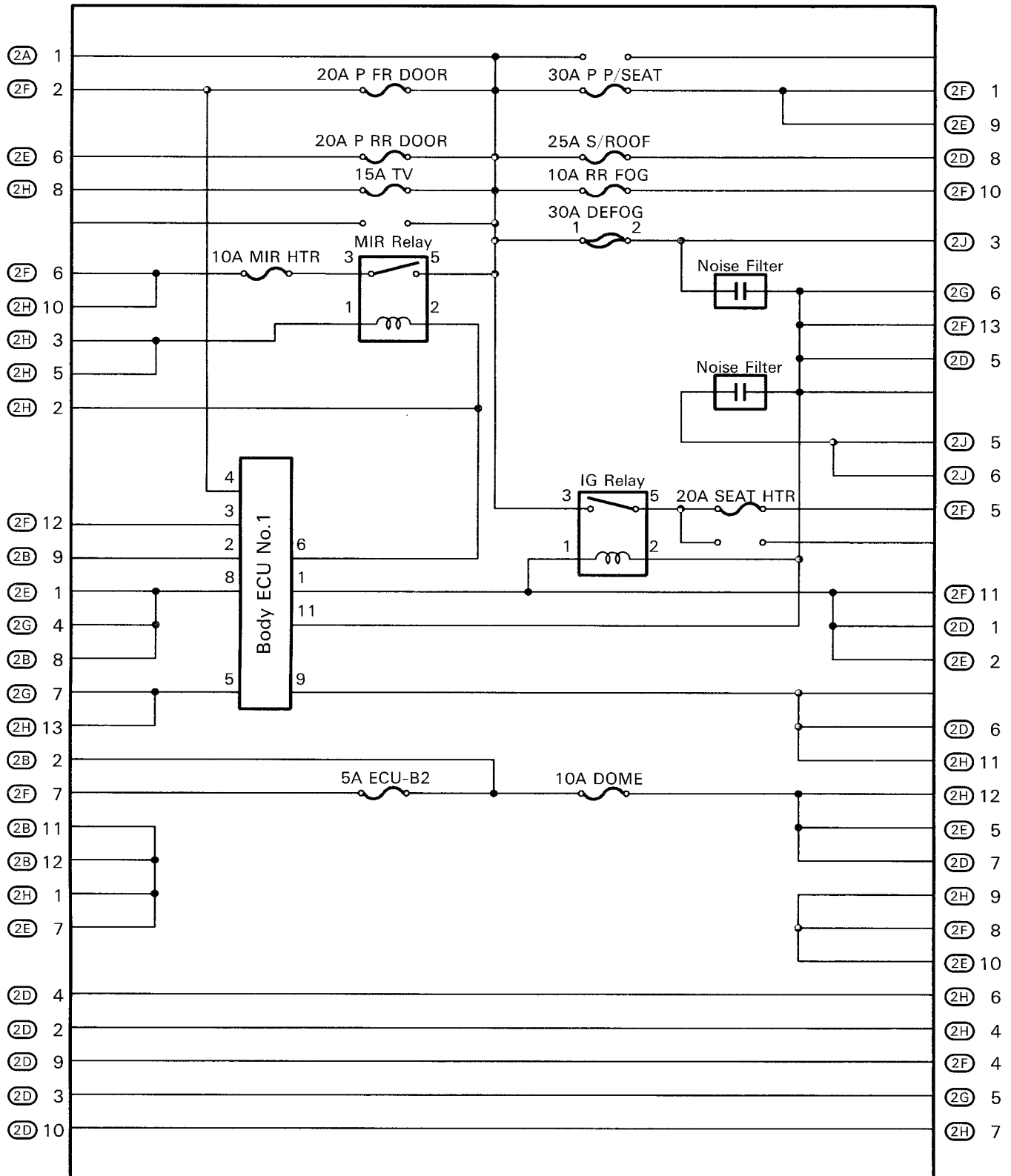


# F RELAY LOCATIONS

## [Driver Side J/B Inner Circuit]



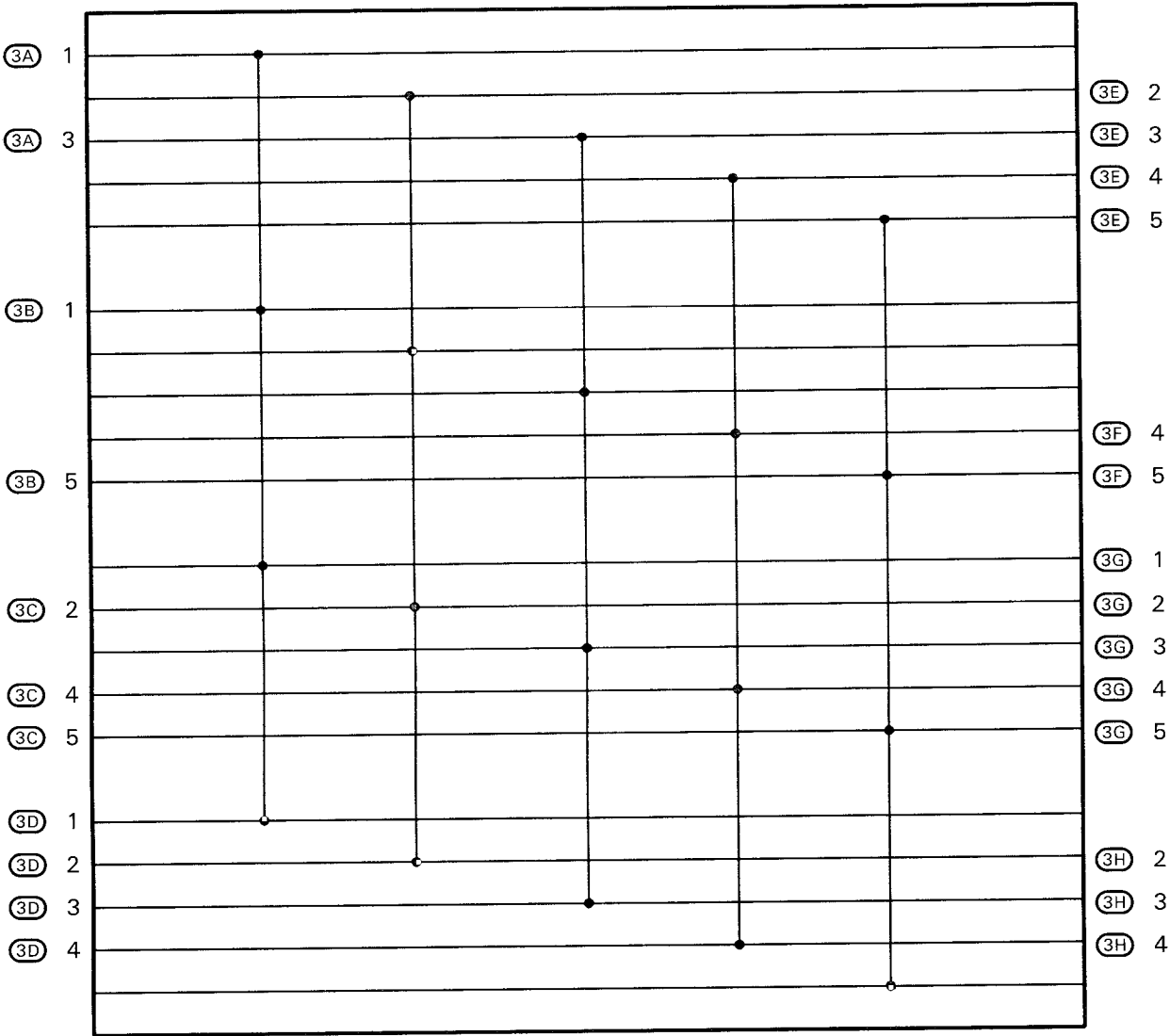
# [Passenger Side J/B Inner Circuit]



F RELAY LOCATIONS

[Instrument Panel J/B Inner Circuit]

English

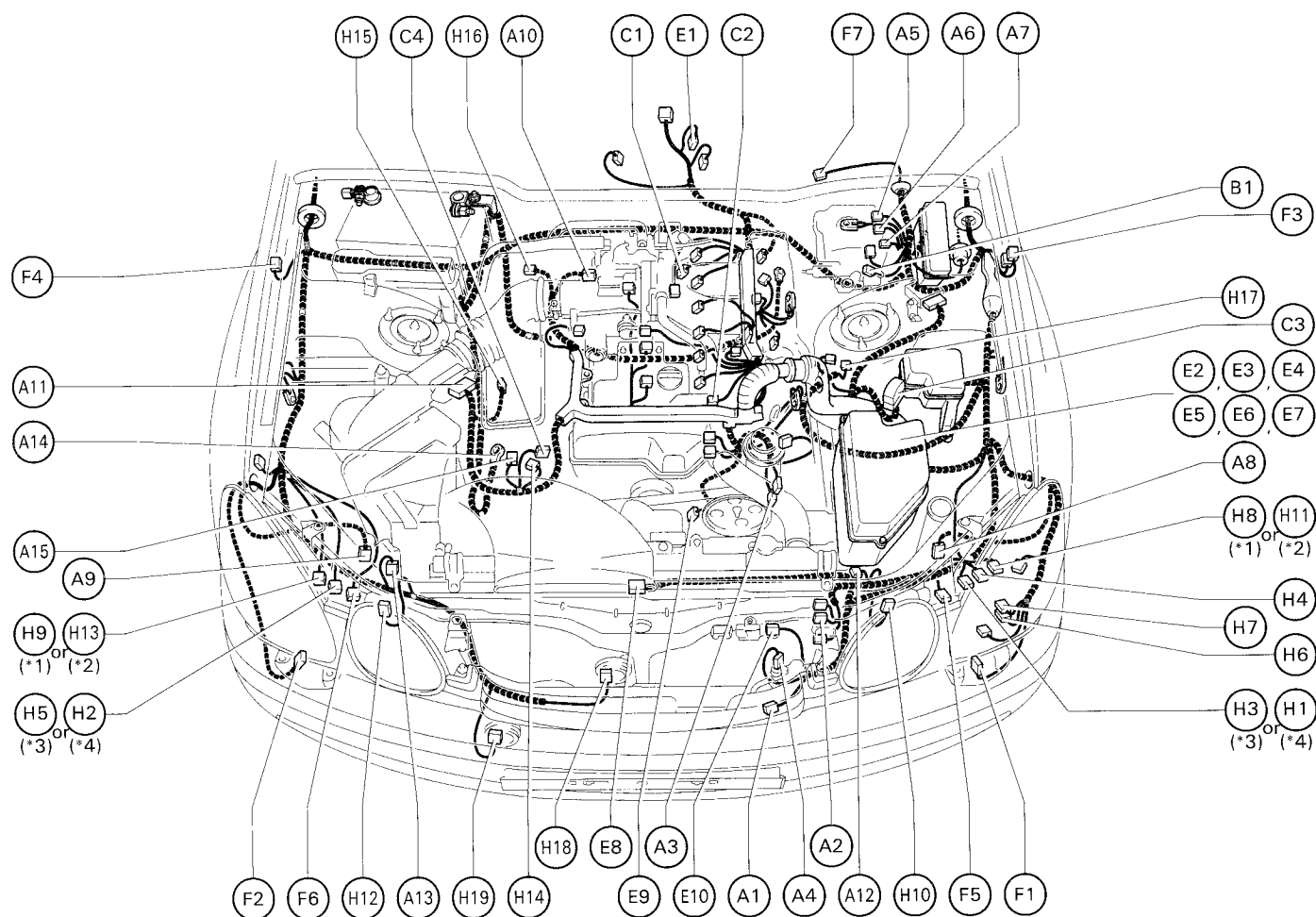


# G ELECTRICAL WIRING ROUTING

## Position of Parts in Engine Compartment

[LHD : Engine 1]

- \*1 : HID Type
- \*2 : Except HID Type
- \*3 : w/ Headlight Beam Level Control (Automatic)
- \*4 : w/ Headlight Beam Level Control (Manual)



# Position of Parts in Engine Compartment

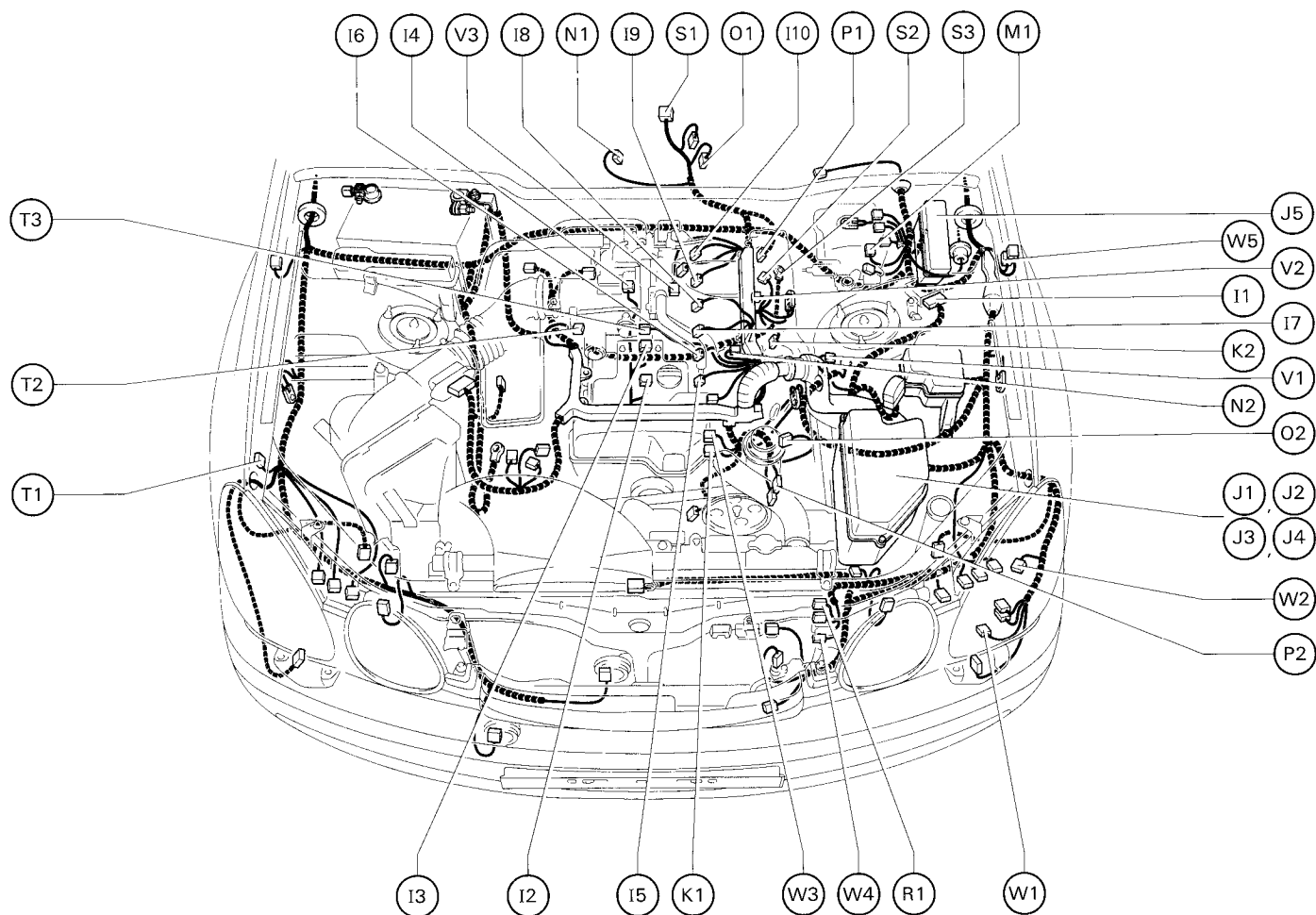
| Code | English                                                  | Français                                                                               | Español                                                                                 |
|------|----------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| A 1  | A/C Ambient Temp. Sensor                                 | Capteur de température ambiante de A/C                                                 | Sensor del temperatura ambiente del A/C                                                 |
| A 2  | A/C Condenser Fan Motor                                  | Moteur de ventilateur de condenseur de A/C                                             | Motor del ventilador del condensador del A/C                                            |
| A 3  | A/C Magnetic Clutch and Lock Sensor                      | Accouplement magnétique de A/C et capteur de blocage                                   | Embrague magnético del A/C y sensor de bloqueo del A/C                                  |
| A 4  | A/C Triple Pressure SW (A/C Dual and Single Pressure SW) | Triple pressostat de A/C (double pressostat et pressostat simple de A/C)               | Interruptor de presión triple del A/C (interruptor de presión doble y sencillo del A/C) |
| A 5  | ABS & TRC & VSC Actuator                                 | Dispositif de commande ABS & TRC & VSC                                                 | Actuador de ABS y TRC y VSC                                                             |
| A 6  | ABS & TRC & VSC Actuator                                 | Dispositif de commande ABS & TRC & VSC                                                 | Actuador de ABS y TRC y VSC                                                             |
| A 7  | ABS & TRC & VSC Actuator                                 | Dispositif de commande ABS & TRC & VSC                                                 | Actuador de ABS y TRC y VSC                                                             |
| A 8  | ABS Speed Sensor Front LH                                | Capteur de vitesse de ABS avant gauche                                                 | Sensor de velocidad de ABS, frontal izquierdo                                           |
| A 9  | ABS Speed Sensor Front RH                                | Capteur de vitesse de ABS avant droit                                                  | Sensor de velocidad de ABS, frontal derecho                                             |
| A 10 | Accel Position Sensor                                    | Capteur de position d'accélérateur                                                     | Sensor de la posición del acelerador                                                    |
| A 11 | Air Flow Meter                                           | Débitmètre d'air                                                                       | Medidor de flujo de aire                                                                |
| A 12 | Airbag Sensor Front LH                                   | Capteur de sac gonflable avant gauche                                                  | Sensor del colchón de aire delantero izquierdo                                          |
| A 13 | Airbag Sensor Front RH                                   | Capteur de sac gonflable avant droit                                                   | Sensor del colchón de aire delantero derecho                                            |
| A 14 | Alternator                                               | Alternateur                                                                            | Alternador                                                                              |
| A 15 | Alternator                                               | Alternateur                                                                            | Alternador                                                                              |
| B 1  | Brake Fluid Level Warning SW                             | Contacteur de rappel de niveau de liquide de frein                                     | Interruptor de advertencia del nivel del líquido de frenos                              |
| C 1  | Camshaft Position Sensor                                 | Capteur de position d'arbre à cames                                                    | Sensor de posición del árbol de levas                                                   |
| C 2  | Camshaft Timing Oil Control Valve                        | Distributeur hydraulique de synchronisation d'arbre cames                              | Válvula de control del aceite de distribución del árbol de levas                        |
| C 3  | Check Connector                                          | Bloc raccord de câblage de diagnostic                                                  | Conector de comprobación                                                                |
| C 4  | Crankshaft Position Sensor                               | Capteur de position de vilebrequin                                                     | Sensor de posición del cigüeñal                                                         |
| E 1  | ECT Solenoid                                             | Solénoïde de commande ECT                                                              | Solenoide de ECT                                                                        |
| E 2  | Engine and ECT ECU                                       | ECU de moteur et de boîte ECT                                                          | ECU del motor y ECT                                                                     |
| E 3  | Engine and ECT ECU                                       | ECU de moteur et de boîte ECT                                                          | ECU del motor y ECT                                                                     |
| E 4  | Engine and ECT ECU                                       | ECU de moteur et de boîte ECT                                                          | ECU del motor y ECT                                                                     |
| E 5  | Engine and ECT ECU                                       | ECU de moteur et de boîte ECT                                                          | ECU del motor y ECT                                                                     |
| E 6  | Engine and ECT ECU                                       | ECU de moteur et de boîte ECT                                                          | ECU del motor y ECT                                                                     |
| E 7  | Engine and ECT ECU                                       | ECU de moteur et de boîte ECT                                                          | ECU del motor y ECT                                                                     |
| E 8  | Engine Hood Courtesy SW                                  | Contacteur d'éclairage de courtoisie de compartiment moteur                            | Interruptor de cortesía del capo del motor                                              |
| E 9  | Engine Oil Level Sensor                                  | Capteur de niveau d'huile moteur                                                       | Sensor del nivel de aceite del motor                                                    |
| E 10 | Exhaust Gas Sensor                                       | Capteur de gaz d'échappement                                                           | Sensor de gases de escape                                                               |
| F 1  | Front Fog Light LH                                       | Projecteur antibrouillard avant gauche                                                 | Luz antiniebla frontal izquierda                                                        |
| F 2  | Front Fog Light RH                                       | Projecteur antibrouillard avant droit                                                  | Luz antiniebla frontal derecha                                                          |
| F 3  | Front Side Turn Signal Light LH                          | Feu de changement de direction latéral avant gauche                                    | Luz de la señal de giro lateral frontal izquierda                                       |
| F 4  | Front Side Turn Signal Light RH                          | Feu de changement de direction latéral avant droit                                     | Luz de la señal de giro lateral frontal derecha                                         |
| F 5  | Front Turn Signal and Clearance Light LH                 | Feux de changement de direction et feu d'encombrement avant gauche                     | Luz de la señal de giro lateral frontal y luz de paso izquierdas                        |
| F 6  | Front Turn Signal and Clearance Light RH                 | Feux de changement de direction et feu d'encombrement avant droit                      | Luz de la señal de giro lateral frontal y luz de paso derechas                          |
| F 7  | Front Wiper Motor                                        | Moteur d'essuie-glace de pare-brise                                                    | Motor del limpiador frontal                                                             |
| H 1  | Headlight Beam Level Control Actuator LH                 | Dispositif de commande de réglage d'orientation de faisceau de projecteur avant gauche | Actuador de control del nivel del haz del faro izquierdo                                |
| H 2  | Headlight Beam Level Control Actuator RH                 | Dispositif de commande de réglage d'orientation de faisceau de projecteur avant droit  | Actuador de control del nivel del haz del faro derecho                                  |
| H 3  | Headlight Beam Level Control ECU                         | ECU de commande de réglage d'orientation de faisceau de projecteur avant               | ECU de control del nivel del haz del faro                                               |
| H 4  | Headlight Beam Level Control ECU                         | ECU de commande de réglage d'orientation de faisceau de projecteur avant               | ECU de control del nivel del haz del faro                                               |
| H 5  | Headlight Beam Level Control Motor                       | Moteur de commande de réglage d'orientation de faisceau de projecteur avant            | Motor de control del nivel del haz del faro                                             |
| H 6  | Headlight Cleaner Control Relay                          | Relais de commande de lave-projecteur avant                                            | Relé de control del limpiador del faro                                                  |
| H 7  | Headlight Cleaner Motor                                  | Moteur de lave-projecteur avant                                                        | Motor del limpiador del faro                                                            |
| H 8  | Headlight Control ECU LH                                 | ECU de commande de projecteur avant gauche                                             | ECU de control del faro izquierdo                                                       |
| H 9  | Headlight Control ECU RH                                 | ECU de commande de projecteur avant droit                                              | ECU de control del faro derecho                                                         |
| H 10 | Headlight LH (High)                                      | Projecteur avant gauche (feux de route)                                                | Faro izquierdo (luz de carretera)                                                       |
| H 11 | Headlight LH (Low)                                       | Projecteur avant gauche (feux de croisement)                                           | Faro izquierdo (luz de cruce)                                                           |
| H 12 | Headlight RH (High)                                      | Projecteur avant droit (feux de route)                                                 | Faro derecho (luz de carretera)                                                         |
| H 13 | Headlight RH (Low)                                       | Projecteur avant droit (feux de croisement)                                            | Faro derecho (luz de cruce)                                                             |
| H 14 | Heated Oxygen Sensor (Bank 1 Sensor 1)                   | Capteur d'oxygène réchauffé (rangée 1, capteur 1)                                      | Sensor de oxígeno calentado (banco 1 sensor 1)                                          |
| H 15 | Heated Oxygen Sensor (Bank 1 Sensor 2)                   | Capteur d'oxygène réchauffé (rangée 1, capteur 2)                                      | Sensor de oxígeno calentado (banco 1 sensor 2)                                          |
| H 16 | Heated Oxygen Sensor (Bank 2 Sensor 1)                   | Capteur d'oxygène réchauffé (rangée 2, capteur 1)                                      | Sensor de oxígeno calentado (banco 2 sensor 1)                                          |
| H 17 | Height Control Sensor (Front)                            | Capteur de commande de réglage de hauteur (avant)                                      | Sensor de control de la altura (frontal)                                                |
| H 18 | Horn LH                                                  | Avertisseur gauche                                                                     | Bocina izquierda                                                                        |
| H 19 | Horn RH                                                  | Avertisseur droit                                                                      | Bocina derecha                                                                          |



## G ELECTRICAL WIRING ROUTING

### Position of Parts in Engine Compartment

[LHD : Engine 2]



## Position of Parts in Engine Compartment

| Code | English                         | Français                                              | Español                                               |
|------|---------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| I 1  | Igniter                         | Allumeur                                              | Encendedor                                            |
| I 2  | Ignition Coil No.1              | Bobine d'allumage no.1                                | Bobina de encendido N.º 1                             |
| I 3  | Ignition Coil No.2              | Bobine d'allumage no.2                                | Bobina de encendido N.º 2                             |
| I 4  | Ignition Coil No.3              | Bobine d'allumage no.3                                | Bobina de encendido N.º 3                             |
| I 5  | Injector No.1                   | Injecteur no.1                                        | Injector N.º 1                                        |
| I 6  | Injector No.2                   | Injecteur no.2                                        | Injector N.º 2                                        |
| I 7  | Injector No.3                   | Injecteur no.3                                        | Injector N.º 3                                        |
| I 8  | Injector No.4                   | Injecteur no.4                                        | Injector N.º 4                                        |
| I 9  | Injector No.5                   | Injecteur no.5                                        | Injector N.º 5                                        |
| I 10 | Injector No.6                   | Injecteur no.6                                        | Injector N.º 6                                        |
| J 1  | Junction Connector              | Bloc raccord de jonction                              | Conector de enlace                                    |
| J 2  | Junction Connector              | Bloc raccord de jonction                              | Conector de enlace                                    |
| J 3  | Junction Connector              | Bloc raccord de jonction                              | Conector de enlace                                    |
| J 4  | Junction Connector              | Bloc raccord de jonction                              | Conector de enlace                                    |
| J 5  | Junction Connector              | Bloc raccord de jonction                              | Conector de enlace                                    |
| K 1  | Knock Sensor 1                  | Capteur de cognement moteur 1                         | Sensor de golpeo 1                                    |
| K 2  | Knock Sensor 2                  | Capteur de cognement moteur 2                         | Sensor de golpeo 2                                    |
| M 1  | Master Cylinder Pressure Sensor | Capteur de pression de maître-cylindre                | Sensor de presión del cilindro principal              |
| N 1  | Neutral Start SW                | Contacteur de démarrage au point mort                 | Interruptor de arranque en punto muerto               |
| N 2  | Noise Filter (Ignition)         | Filtre antiparasites (allumage)                       | Filtro de ruido (encendido)                           |
| O 1  | O/D Direct Clutch Speed Sensor  | Capteur de vitesse d'embrayage de O/D                 | Sensor de velocidad del embrague directo de O/D       |
| O 2  | Oil Pressure SW                 | Manocontact de pression d'huile                       | Interruptor de presión de aceite                      |
| P 1  | Power Steering Oil Pressure SW  | Manocontact de pression d'huile de direction assistée | Interruptor de presión de aceite de la servodirección |
| P 2  | PPS Solenoid                    | Solénoïde de commande de direction PPS                | Solenoid de PPS                                       |
| R 1  | Radiator Fan Motor              | Moteur de ventilateur de radiateur                    | Motor del ventilador del radiador                     |
| S 1  | Speed Sensor (ECT)              | Capteur de vitesse (ECT)                              | Sensor de velocidad (ECT)                             |
| S 2  | Starter                         | Démarrreur                                            | Arrancador                                            |
| S 3  | Starter                         | Démarrreur                                            | Arrancador                                            |
| T 1  | Theft Deterrent Horn            | Avertisseur de dissuasion contre le vol               | Bocina del sistema antirrobo                          |
| T 2  | Throttle Control Motor          | Moteur de commande de papillon d'accélération         | Motor de control del acelerador                       |
| T 3  | Throttle Position Sensor        | Capteur de position de papillon d'accélération        | Sensor de posición del acelerador                     |
| V 1  | Variable Resistor               | Résistance variable                                   | Resistor variable                                     |
| V 2  | VSV (ACIS)                      | VSV (ACIS)                                            | VSV (ACIS)                                            |
| V 3  | VSV (EVAP)                      | VSV (EVAP)                                            | VSV (EVAP)                                            |
| W 1  | Washer Level Warning SW         | Contacteur de niveau de liquide de lave-glace         | Interruptor de advertencia de nivel de lavador        |
| W 2  | Washer Motor                    | Moteur de lave-glace                                  | Motor del lavador                                     |
| W 3  | Water Temp. Sensor              | Capteur de température d'eau                          | Sensor de la temperatura del agua                     |
| W 4  | Water Temp. SW                  | Contacteur de température d'eau                       | Interruptor de la temperatura del agua                |
| W 5  | Wireless Door Lock Buzzer       | Avertisseur de condamnation de porte à commande radio | Zumbador de bloqueo de la puerta inalámbrico          |

English

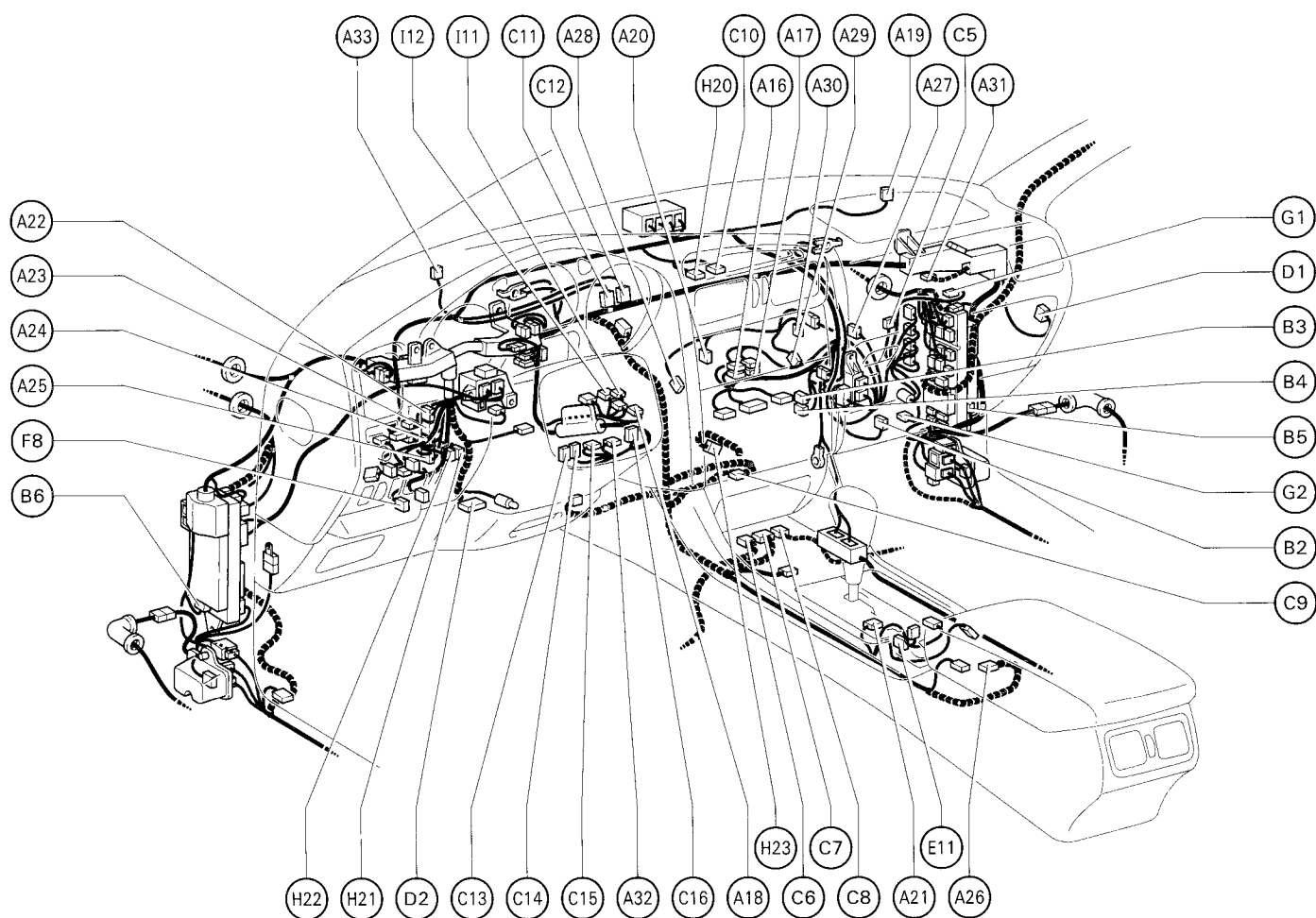
Français

Español

## G ELECTRICAL WIRING ROUTING

### Position of Parts in Instrument Panel

[LHD : Instrument Panel 1]



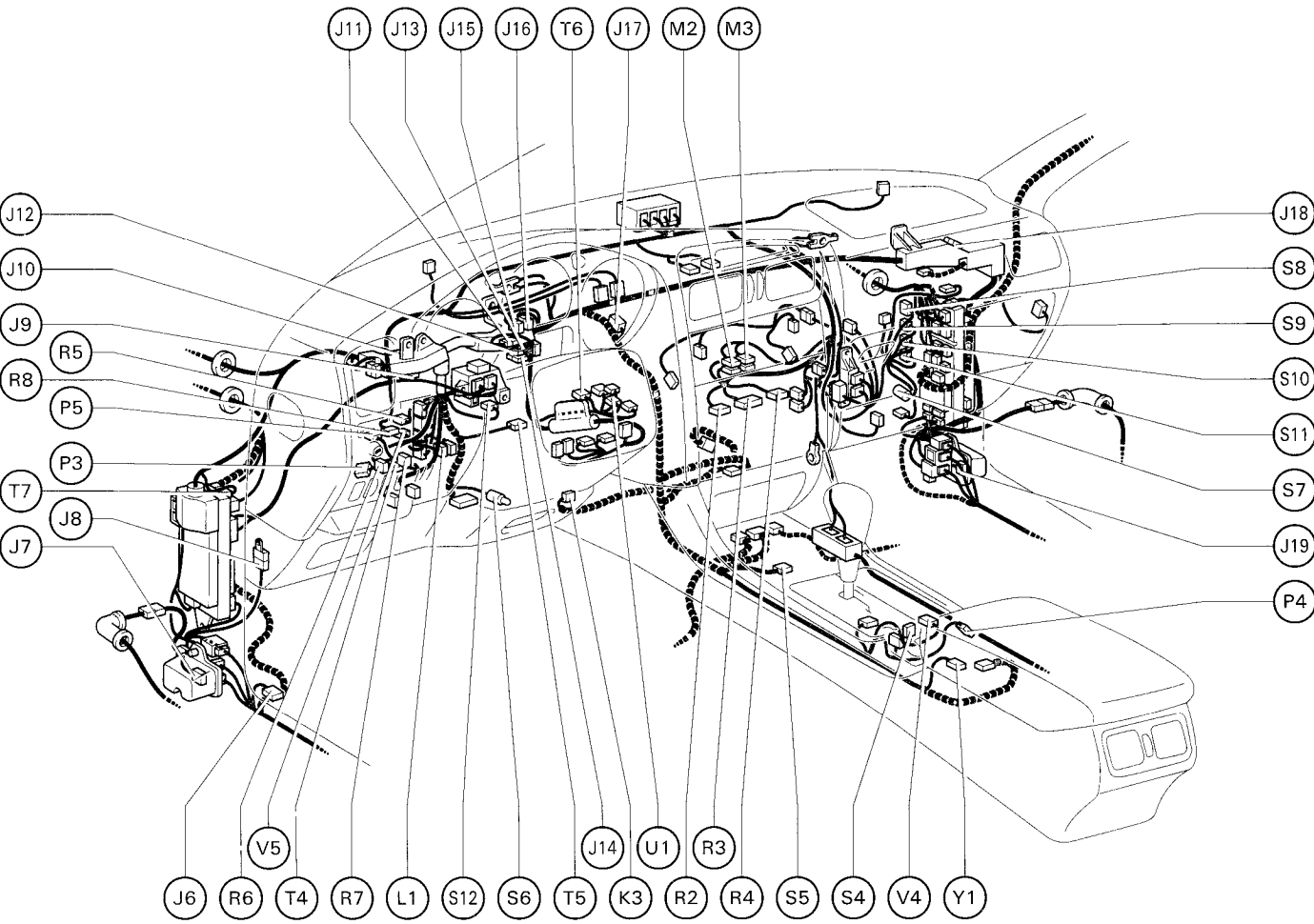
## Position of Parts in Instrument Panel

| Code | English                                            | Français                                                                        | Español                                                                             |
|------|----------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| A 16 | A/C Control Assembly                               | Ensemble de platine de commande de A/C                                          | Conjunto de control del A/C                                                         |
| A 17 | A/C Control Assembly                               | Ensemble de platine de commande de A/C                                          | Conjunto de control del A/C                                                         |
| A 18 | A/C Room Temp. Sensor                              | Capteur de température ambiante d'habitacle de A/C                              | Sensor de la temperatura del compartimento del A/C                                  |
| A 19 | A/C Solar Sensor                                   | Capteur solaire de A/C                                                          | Sensor solar del A/C                                                                |
| A 20 | A/C Thermistor                                     | Thermistance de A/C                                                             | Termistor del A/C                                                                   |
| A 21 | A/T Shift Position Illumination                    | Eclairage de position de changement de vitesses de A/T                          | Iluminación de la posición de cambios de la A/T                                     |
| A 22 | ABS & TRC & VSC ECU                                | ECU de ABS & TRC & VSC                                                          | ECU de ABS y TRC y VSC                                                              |
| A 23 | ABS & TRC & VSC ECU                                | ECU de ABS & TRC & VSC                                                          | ECU de ABS y TRC y VSC                                                              |
| A 24 | ABS & TRC & VSC ECU                                | ECU de ABS & TRC & VSC                                                          | ECU de ABS y TRC y VSC                                                              |
| A 25 | ABS & TRC & VSC ECU                                | ECU de ABS & TRC & VSC                                                          | ECU de ABS y TRC y VSC                                                              |
| A 26 | ABS Deceleration Sensor                            | Capteur de décélération ABS                                                     | Sensor de desaceleración del ABS                                                    |
| A 27 | Air Inlet Control Servo Motor                      | Servomoteur de commande d'admission d'air                                       | Servomotor de control de la entrada de aire                                         |
| A 28 | Air Mix Control Servo Motor (Driver Side)          | Servomoteur de commande de mélange d'air (côté conducteur)                      | Servomotor de control de mezcla de aire (lado del conductor)                        |
| A 29 | Air Mix Control Servo Motor (Front Passenger Side) | Servomoteur de commande de mélange d'air (côté passager avant)                  | Servomotor de control de mezcla de aire (lado del pasajero delantero)               |
| A 30 | Air Vent Mode Control Servo Motor                  | Servomoteur de commande de mode d'aération                                      | Servomotor de control del modo de ventilación de aire                               |
| A 31 | Airbag Squib (Front Passenger Airbag Assembly)     | Charge explosive de sac gonflable (ensemble de sac gonflable de passager avant) | Detonador del colchón de aire (conjunto del colchón de aire del pasajero delantero) |
| A 32 | Airbag Squib (Steering Wheel Pad)                  | Charge explosive de sac gonflable (rembourrage de volant de direction)          | Detonador del colchón de aire (almohadilla del volante de dirección)                |
| A 33 | Automatic Light Control Sensor                     | Capteur de commande d'éclairage automatique                                     | Sensor del control automático de las luces                                          |
| B 2  | Blower Motor                                       | Moteur de soufflerie                                                            | Motor del soplador                                                                  |
| B 3  | Blower Motor Controller                            | Contrôleur de moteur de soufflerie                                              | Controlador del motor del soplador                                                  |
| B 4  | Blower Motor Controller                            | Contrôleur de moteur de soufflerie                                              | Controlador del motor del soplador                                                  |
| B 5  | Body ECU No.1                                      | ECU de carrosserie no.1                                                         | ECU de la carrocería N.º1                                                           |
| B 6  | Body ECU No.2                                      | ECU de carrosserie no.2                                                         | ECU de la carrocería N.º2                                                           |
| C 5  | CD Automatic Changer                               | Changeur automatique de CD                                                      | Cargador automático de CD                                                           |
| C 6  | Center Airbag Sensor Assembly                      | Ensemble de capteur de sac gonflable central                                    | Conjunto del sensor del colchón de aire central                                     |
| C 7  | Center Airbag Sensor Assembly                      | Ensemble de capteur de sac gonflable central                                    | Conjunto del sensor del colchón de aire central                                     |
| C 8  | Center Airbag Sensor Assembly                      | Ensemble de capteur de sac gonflable central                                    | Conjunto del sensor del colchón de aire central                                     |
| C 9  | Cigarette Lighter                                  | Allume-cigare                                                                   | Encendedor de cigarrillos                                                           |
| C 10 | Clock                                              | Montre électrique de bord                                                       | Reloj                                                                               |
| C 11 | Combination Meter                                  | Combiné de bord                                                                 | Medidor de combinación                                                              |
| C 12 | Combination Meter                                  | Combiné de bord                                                                 | Medidor de combinación                                                              |
| C 13 | Combination SW                                     | Commande combinée                                                               | Interruptor de combinación                                                          |
| C 14 | Combination SW                                     | Commande combinée                                                               | Interruptor de combinación                                                          |
| C 15 | Combination SW                                     | Commande combinée                                                               | Interruptor de combinación                                                          |
| C 16 | Combination SW                                     | Commande combinée                                                               | Interruptor de combinación                                                          |
| D 1  | Daytime Running Light Relay                        | Relais de dispositifs d'éclairage de conduite de jour                           | Relé de la luz de marcha diurna                                                     |
| D 2  | DLC3                                               | DLC3                                                                            | DLC3                                                                                |
| E 11 | ECT Pattern Select SW                              | Sélecteur de mode de sélection de rapport de boîte ECT                          | Selector de patrón de ECT                                                           |
| F 8  | Fuel Lid Opener SW                                 | Contacteur de dispositif d'ouverture de trappe de réservoir essence             | Interruptor del abridor de la tapa de combustible                                   |
| G 1  | Glove Box Light                                    | Eclairage de boîte à gants                                                      | Luz de la guantera                                                                  |
| G 2  | Glove Box Light SW                                 | Contacteur d'éclairage de boîte à gants                                         | Interruptor de la luz de la guantera                                                |
| H 20 | Hazard SW                                          | Commande de feux de détresse                                                    | Interruptor de peligro                                                              |
| H 21 | Headlight Beam Level Control SW                    | Commande de réglage d'orientation de faisceau de projecteur avant               | Interruptor de control del nivel del haz del faro                                   |
| H 22 | Headlight Cleaner SW                               | Commande de lave-projecteur avant                                               | Interruptor del limpiador del faro                                                  |
| H 23 | Heated Oxygen Sensor (Bank 2 Sensor 2)             | Capteur d'oxygène réchauffé (rangée 2, capteur 2)                               | Sensor de oxígeno calentado (banco 2 sensor 2)                                      |
| I 11 | Ignition Key Cylinder Light                        | Eclairage de barillet de contacteur d'allumage                                  | Luz del cilindro de la llave de encendido                                           |
| I 12 | Ignition SW                                        | Contacteur d'allumage                                                           | Interruptor de encendido                                                            |

G ELECTRICAL WIRING ROUTING

Position of Parts in Instrument Panel

[LHD : Instrument Panel 2]



## Position of Parts in Instrument Panel

| Code | English                                      | Français                                                                              | Español                                                                                 |
|------|----------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| J 6  | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 7  | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 8  | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 9  | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 10 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 11 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 12 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 13 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 14 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 15 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 16 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 17 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 18 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 19 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| K 3  | Kick Down SW                                 | <i>Contacteur de rétrogradation</i>                                                   | <i>Interruptor del retirador</i>                                                        |
| L 1  | Luggage Compartment Door Opener SW           | <i>Dispositif d'ouverture de porte de compartiment bagages</i>                        | <i>Interruptor del abridor de la puerta del portaequipajes</i>                          |
| M 2  | Multi-Display                                | <i>Afficheur multifonctions</i>                                                       | <i>Visualizador múltiple</i>                                                            |
| M 3  | Multi-Display                                | <i>Afficheur multifonctions</i>                                                       | <i>Visualizador múltiple</i>                                                            |
| P 3  | Parking Brake SW                             | <i>Contacteur de frein de stationnement</i>                                           | <i>Interruptor del freno de estacionamiento</i>                                         |
| P 4  | Power Outlet                                 | <i>Prise d'alimentation</i>                                                           | <i>Toma de alimentación</i>                                                             |
| P 5  | PPS ECU                                      | <i>PPS ECU</i>                                                                        | <i>ECU PPS</i>                                                                          |
| R 2  | Radio and Player                             | <i>Autoradio et lecteur de cassettes</i>                                              | <i>Radio y reproductor</i>                                                              |
| R 3  | Radio and Player                             | <i>Autoradio et lecteur de cassettes</i>                                              | <i>Radio y reproductor</i>                                                              |
| R 4  | Radio and Player                             | <i>Autoradio et lecteur de cassettes</i>                                              | <i>Radio y reproductor</i>                                                              |
| R 5  | Rear Fog Light Relay                         | <i>Relais de projecteurs antibrouillard arrière</i>                                   | <i>Relé de la luz antiniebla trasera</i>                                                |
| R 6  | Rear Fog Light SW                            | <i>Commande de projecteur antibrouillard arrière</i>                                  | <i>Interruptor de la luz antiniebla trasera</i>                                         |
| R 7  | Remote Control Mirror SW                     | <i>Commande de rétroviseur à commande électrique</i>                                  | <i>Interruptor del espejo retrovisor de control remoto</i>                              |
| R 8  | Rheostat                                     | <i>Rhéostat</i>                                                                       | <i>Reóstato</i>                                                                         |
| S 4  | Seat Heater SW                               | <i>Commande de chauffage de siège</i>                                                 | <i>Interruptor del calefactor del asiento</i>                                           |
| S 5  | Shift Lock Control ECU                       | <i>ECU de commande de verrouillage de sécurité de changement de vitesses</i>          | <i>ECU de control de bloqueo de cambios</i>                                             |
| S 6  | Step Light LH                                | <i>Eclairage de marchepied gauche</i>                                                 | <i>Luz del peldaño izquierda</i>                                                        |
| S 7  | Step Light RH                                | <i>Eclairage de marchepied droit</i>                                                  | <i>Luz del peldaño derecha</i>                                                          |
| S 8  | Stereo Component Amplifier                   | <i>Amplificateur stéréo</i>                                                           | <i>Amplificador de componente estéreo</i>                                               |
| S 9  | Stereo Component Amplifier                   | <i>Amplificateur stéréo</i>                                                           | <i>Amplificador de componente estéreo</i>                                               |
| S 10 | Stereo Component Amplifier                   | <i>Amplificateur stéréo</i>                                                           | <i>Amplificador de componente estéreo</i>                                               |
| S 11 | Stereo Component Amplifier                   | <i>Amplificateur stéréo</i>                                                           | <i>Amplificador de componente estéreo</i>                                               |
| S 12 | Stop Light SW                                | <i>Contacteur de feux stop</i>                                                        | <i>Interruptor de la luz de parada</i>                                                  |
| T 4  | Telephone Microphone                         | <i>Microphone de téléphone</i>                                                        | <i>Microfono del teléfono</i>                                                           |
| T 5  | Tilt and Telescopic ECU                      | <i>ECU de réglage d'inclinaison et télescopique</i>                                   | <i>ECU de inclinación y telescópica</i>                                                 |
| T 6  | Transponder Key Amplifier                    | <i>Amplificateur de clé de transpondeur</i>                                           | <i>Amplificador de la llave de transmisor</i>                                           |
| T 7  | Turn Signal Flasher                          | <i>Central clignotant de feux clignotants</i>                                         | <i>Intermitente de la señal de giro</i>                                                 |
| U 1  | Unlock Warning SW and Key Interlock Solenoid | <i>Contacteur de rappel de libération et solénoïde de commande de couplage de clé</i> | <i>Interruptor de advertencia de desbloqueo y solenoide de interbloqueo de la llave</i> |
| V 4  | VSC Off SW                                   | <i>Commutateur VSC Off</i>                                                            | <i>Interruptor de desactivación VSC Off</i>                                             |
| V 5  | VSC Warning Buzzer                           | <i>Sonnerie de rappel de VSC</i>                                                      | <i>Zumbador de advertencia de VSC</i>                                                   |
| Y 1  | Yaw Rate Sensor                              | <i>Capteur de mouvement de lacet</i>                                                  | <i>Sensor relación de desvío</i>                                                        |

English

Français

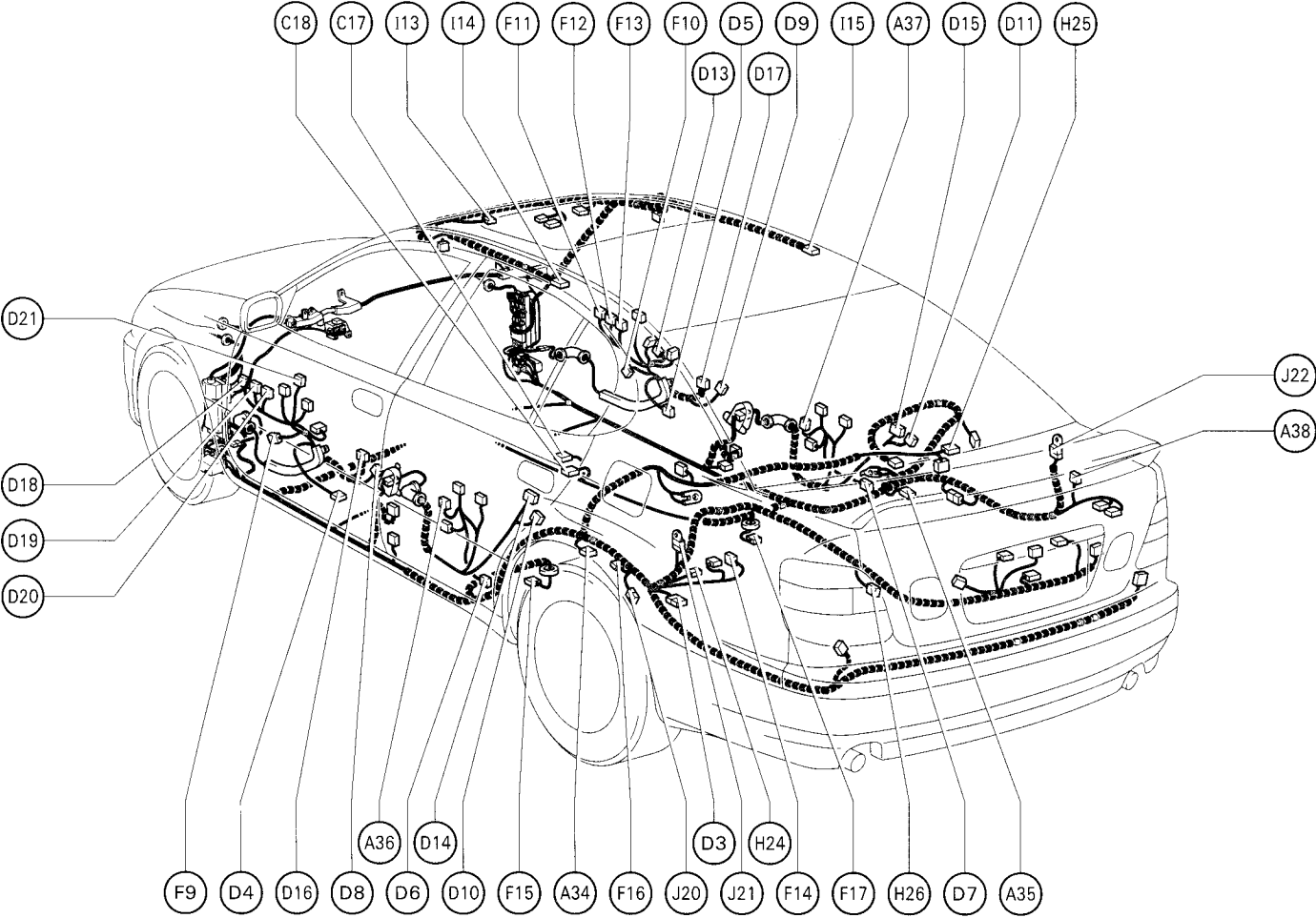
Español

G ELECTRICAL WIRING ROUTING

Position of Parts in Body

[LHD : Body 1]

English



## Position of Parts in Body

| Code | English                                                                          | Français                                                                                                                                                           | Español                                                                                                                                                          |
|------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A 34 | ABS Speed Sensor Rear LH                                                         | Capteur de vitesse de ABS arrière gauche                                                                                                                           | Sensor de velocidad de ABS, trasero izquierdo                                                                                                                    |
| A 35 | ABS Speed Sensor Rear RH                                                         | Capteur de vitesse de ABS arrière droit                                                                                                                            | Sensor de velocidad de ABS, trasero derecho                                                                                                                      |
| A 36 | Ashtray Illumination Rear LH                                                     | Eclairage de cendrier arrière gauche                                                                                                                               | Iluminación del cenicero trasero izquierdo                                                                                                                       |
| A 37 | Ashtray Illumination Rear RH                                                     | Eclairage de cendrier arrière droit                                                                                                                                | Iluminación del cenicero trasero derecho                                                                                                                         |
| A 38 | Auto Antenna Control Relay and Motor                                             | Relais de commande et moteur d'antenne électrique                                                                                                                  | Relé y motor de control de la antena eléctrica                                                                                                                   |
| C 17 | Cellular Phone (Hand Set)                                                        | Téléphone cellulaire (combiné portatif)                                                                                                                            | Teléfono celular (microteléfono)                                                                                                                                 |
| C 18 | Cellular Phone (Hand Set)                                                        | Téléphone cellulaire (combiné portatif)                                                                                                                            | Teléfono celular (microteléfono)                                                                                                                                 |
| D 3  | Diode (Luggage Door Open Detection)                                              | Diode (détection d'ouverture de porte de compartiment bagages)                                                                                                     | Diodo (detección de abertura de la puerta de portaequipajes)                                                                                                     |
| D 4  | Door Courtesy Light Front LH                                                     | Eclairage de courtoisie sur porte avant gauche                                                                                                                     | Luz de cortesía de la puerta, frontal izquierda                                                                                                                  |
| D 5  | Door Courtesy Light Front RH                                                     | Eclairage de courtoisie sur porte avant droite                                                                                                                     | Luz de cortesía de la puerta, frontal derecha                                                                                                                    |
| D 6  | Door Courtesy Light Rear LH                                                      | Eclairage de courtoisie sur porte arrière gauche                                                                                                                   | Luz de cortesía de la puerta, trasera izquierda                                                                                                                  |
| D 7  | Door Courtesy Light Rear RH                                                      | Eclairage de courtoisie sur porte arrière droite                                                                                                                   | Luz de cortesía de la puerta, trasera derecha                                                                                                                    |
| D 8  | Door Courtesy SW Front LH                                                        | Contacteur d'éclairage de courtoisie sur porte avant gauche                                                                                                        | Interruptor de cortesía de la puerta frontal izquierda                                                                                                           |
| D 9  | Door Courtesy SW Front RH                                                        | Contacteur d'éclairage de courtoisie sur porte avant droite                                                                                                        | Interruptor de cortesía de la puerta frontal derecha                                                                                                             |
| D 10 | Door Courtesy SW Rear LH                                                         | Contacteur d'éclairage de courtoisie sur porte arrière gauche                                                                                                      | Interruptor de cortesía de la puerta trasera izquierda                                                                                                           |
| D 11 | Door Courtesy SW Rear RH                                                         | Contacteur d'éclairage de courtoisie sur porte arrière droite                                                                                                      | Interruptor de cortesía de la puerta trasera derecha                                                                                                             |
| D 13 | Door Lock Control SW RH                                                          | Commande de condamnation de porte droite                                                                                                                           | Interruptor de control de bloqueo de la puerta derecha                                                                                                           |
| D 14 | Door Lock Motor and Door Lock Detection SW Rear LH                               | Moteur de condamnation de porte et contacteur de détection de condamnation de porte arrière gauche                                                                 | Motor de bloqueo de la puerta e interruptor de detección de bloqueo de la puerta trasera izquierda                                                               |
| D 15 | Door Lock Motor and Door Lock Detection SW Rear RH                               | Moteur de condamnation de porte et contacteur de détection de condamnation de porte arrière droite                                                                 | Motor de bloqueo de la puerta e interruptor de detección de bloqueo de la puerta trasera derecha                                                                 |
| D 16 | Door Lock Motor, Door Key Lock and Unlock SW and Door Lock Detection SW Front LH | Moteur de condamnation de porte, contacteur de condamnation et de libération de porte avec la clé et contacteur de détection de condamnation de porte avant gauche | Motor de bloqueo de la puerta, interruptor de bloqueo y desbloqueo de la llave de la puerta e interruptor de detección de bloqueo de la puerta frontal izquierda |
| D 17 | Door Lock Motor, Door Key Lock and Unlock SW and Door Lock Detection SW Front RH | Moteur de condamnation de porte, contacteur de condamnation et de libération de porte avec la clé et contacteur de détection de condamnation de porte avant droite | Motor de bloqueo de la puerta, interruptor de bloqueo y desbloqueo de la llave de la puerta e interruptor de detección de bloqueo de la puerta frontal derecha   |
| D 18 | Driver Door ECU                                                                  | ECU de porte de conducteur                                                                                                                                         | ECU de la puerta del conductor                                                                                                                                   |
| D 19 | Driver Door ECU                                                                  | ECU de porte de conducteur                                                                                                                                         | ECU de la puerta del conductor                                                                                                                                   |
| D 20 | Driver Door ECU                                                                  | ECU de porte de conducteur                                                                                                                                         | ECU de la puerta del conductor                                                                                                                                   |
| D 21 | Driving Position Memory SW                                                       | Commande de mémoire de position de conduite                                                                                                                        | Interruptor de la memoria de la posición de conducción                                                                                                           |
| F 9  | Front Door Speaker LH                                                            | Haut-parleur de porte avant gauche                                                                                                                                 | Altavoz de la puerta frontal izquierda                                                                                                                           |
| F 10 | Front Door Speaker RH                                                            | Haut-parleur de porte avant droite                                                                                                                                 | Altavoz de la puerta frontal derecha                                                                                                                             |
| F 11 | Front Passenger Door ECU                                                         | ECU de porte de passager avant                                                                                                                                     | ECU de la puerta del pasajero delantero                                                                                                                          |
| F 12 | Front Passenger Door ECU                                                         | ECU de porte de passager avant                                                                                                                                     | ECU de la puerta del pasajero delantero                                                                                                                          |
| F 13 | Front Passenger Door ECU                                                         | ECU de porte de passager avant                                                                                                                                     | ECU de la puerta del pasajero delantero                                                                                                                          |
| F 14 | Fuel Lid Opener Motor                                                            | Moteur de dispositif d'ouverture de trappe de réservoir à essence                                                                                                  | Motor del abridor de la tapa de combustible                                                                                                                      |
| F 15 | Fuel Pump and Sender                                                             | Pompe d'alimentation et jauge émettrice de niveau                                                                                                                  | Bomba de combustible y emisor                                                                                                                                    |
| F 16 | Fuel Pump Control ECU                                                            | ECU de commande de pompe d'alimentation                                                                                                                            | ECU de control de la bomba de combustible                                                                                                                        |
| F 17 | Fuel Sender (Sub)                                                                | Jauge émettrice de niveau d'essence (secondaire)                                                                                                                   | Emisor de combustible (secundario)                                                                                                                               |
| H 24 | Height Control Sensor (Rear)                                                     | Capteur de commande de réglage de hauteur (arrière)                                                                                                                | Sensor de control de la altura (trasero)                                                                                                                         |
| H 25 | High Mounted Stop Light (Bulb Type)                                              | Feux stop à implantation haute (type à lampe)                                                                                                                      | Luz de parada de montura alta (tipo de bombilla)                                                                                                                 |
| H 26 | High Mounted Stop Light (LED Type)                                               | Feux stop à implantation haute (type à LED)                                                                                                                        | Luz de parada de montura alta (tipo de LED)                                                                                                                      |
| I 13 | Inner Mirror                                                                     | Rétroviseur intérieur                                                                                                                                              | Espejo interior                                                                                                                                                  |
| I 14 | Interior Light Rear LH                                                           | Plafonnier arrière gauche                                                                                                                                          | Luz interior trasera izquierda                                                                                                                                   |
| I 15 | Interior Light Rear RH                                                           | Plafonnier arrière droit                                                                                                                                           | Luz interior trasera derecha                                                                                                                                     |
| J 20 | Junction Connector                                                               | Bloc raccord de jonction                                                                                                                                           | Conector de enlace                                                                                                                                               |
| J 21 | Junction Connector                                                               | Bloc raccord de jonction                                                                                                                                           | Conector de enlace                                                                                                                                               |
| J 22 | Junction Connector                                                               | Bloc raccord de jonction                                                                                                                                           | Conector de enlace                                                                                                                                               |

English

Français

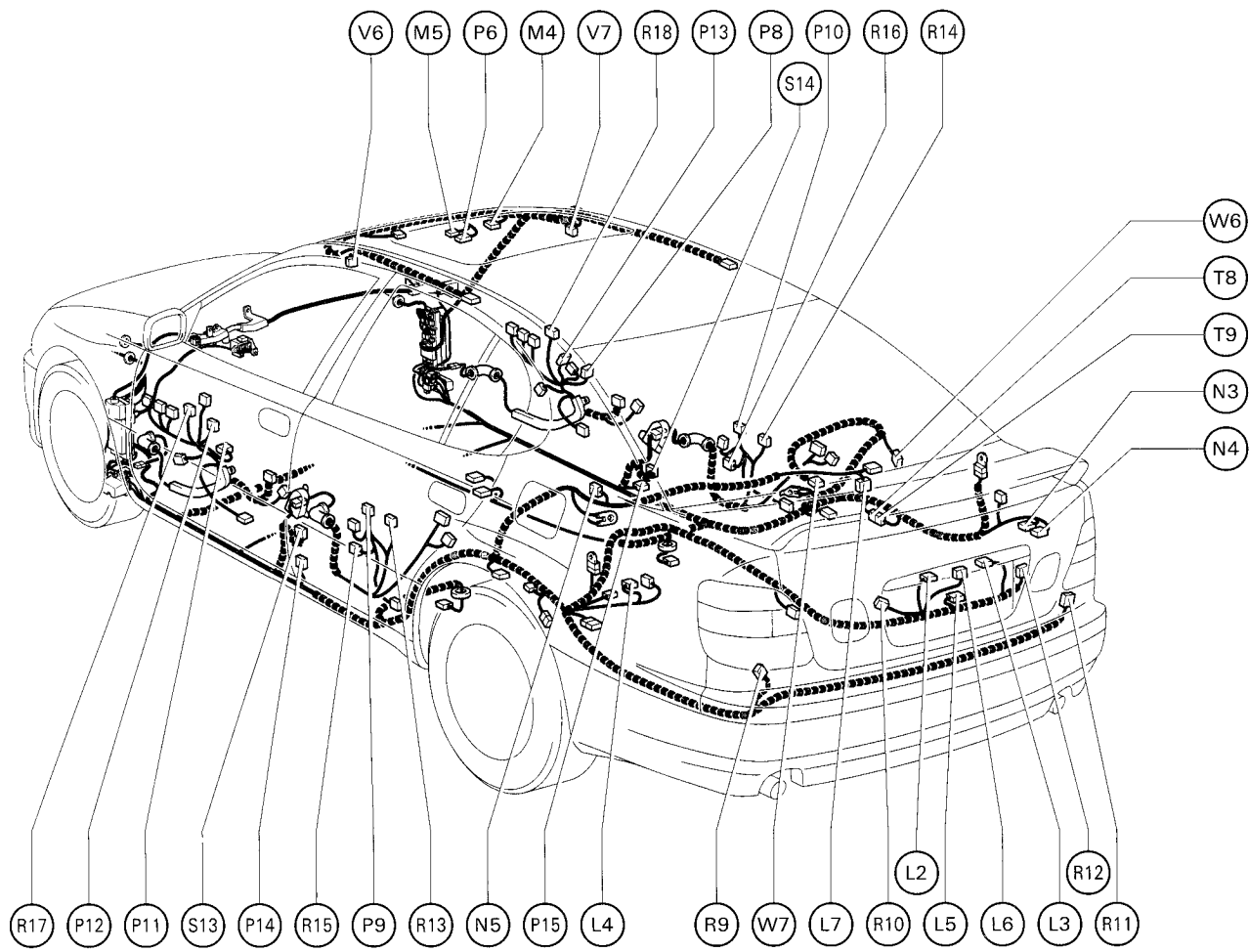
Español



G ELECTRICAL WIRING ROUTING

Position of Parts in Body

[LHD : Body 2]



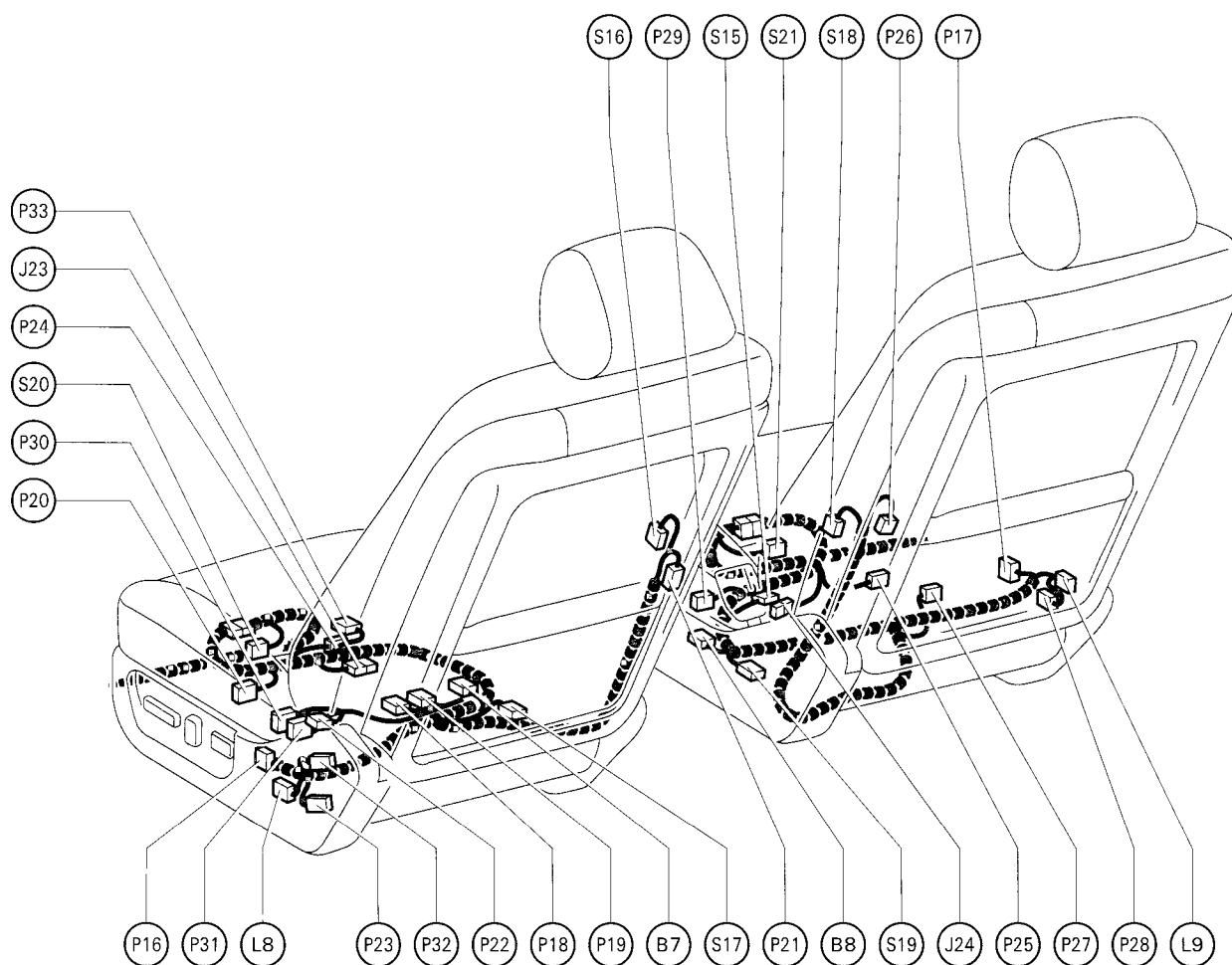
## Position of Parts in Body

| Code | English                                               | Français                                                                                                            | Español                                                                      |
|------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| L 2  | License Plate Light LH                                | <i>Eclairage de plaque minéralogique gauche</i>                                                                     | <i>Luz de la matrícula izquierda</i>                                         |
| L 3  | License Plate Light RH                                | <i>Eclairage de plaque minéralogique droit</i>                                                                      | <i>Luz de la matrícula derecha</i>                                           |
| L 4  | Light Failure Sensor                                  | <i>Capteur de panne de dispositif d'éclairage</i>                                                                   | <i>Sensor de fallo de las luces</i>                                          |
| L 5  | Luggage Compartment Door Courtesy SW and Opener Motor | <i>Contacteur d'éclairage de courtoisie sur porte de compartiment à bagages et moteur de dispositif d'ouverture</i> | <i>Interruptor de cortesía de la puerta del portaequipajes y abridor</i>     |
| L 6  | Luggage Compartment Door Key Unlock SW                | <i>Contacteur de libération par la clé porte de compartiment à bagages</i>                                          | <i>Interruptor de desbloqueo de la llave de la puerta del portaequipajes</i> |
| L 7  | Luggage Compartment Light                             | <i>Eclairage de compartiment à bagages</i>                                                                          | <i>Luz del portaequipajes</i>                                                |
| M 4  | Moon Roof Control ECU                                 | <i>ECU de commande de toit ouvrant</i>                                                                              | <i>ECU de control del techo lunar</i>                                        |
| M 5  | Moon Roof Control SW                                  | <i>Commande de toit ouvrant</i>                                                                                     | <i>Interruptor de control del techo lunar</i>                                |
| N 3  | Navigation ECU                                        | <i>ECU de navigation</i>                                                                                            | <i>ECU de navegación</i>                                                     |
| N 4  | Navigation ECU                                        | <i>ECU de navigation</i>                                                                                            | <i>ECU de navegación</i>                                                     |
| N 5  | Noise Filter (Rear Window Defogger)                   | <i>Filtre antiparasites (désembueur de lunette arrière)</i>                                                         | <i>Filtro de ruido (desempañador de la ventanilla trasera)</i>               |
| P 6  | Personal Light                                        | <i>Projecteur individuel</i>                                                                                        | <i>Luz personal</i>                                                          |
| P 8  | Power Window Control SW Front RH                      | <i>Commande de lève-glace électrique avant droit</i>                                                                | <i>Interruptor de control de la ventanilla automática frontal derecha</i>    |
| P 9  | Power Window Control SW Rear LH                       | <i>Commande de lève-glace électrique arrière gauche</i>                                                             | <i>Interruptor de control de la ventanilla automática trasera izquierda</i>  |
| P 10 | Power Window Control SW Rear RH                       | <i>Commande de lève-glace électrique arrière droit</i>                                                              | <i>Interruptor de control de la ventanilla automática trasera derecha</i>    |
| P 11 | Power Window Master SW                                | <i>Commande générale de lève-glace électrique</i>                                                                   | <i>Interruptor principal de la ventanilla automática</i>                     |
| P 12 | Power Window Motor Front LH                           | <i>Moteur de lève-glace électrique avant gauche</i>                                                                 | <i>Motor de la ventanilla automática frontal izquierda</i>                   |
| P 13 | Power Window Motor Front RH                           | <i>Moteur de lève-glace électrique avant droit</i>                                                                  | <i>Motor de la ventanilla automática frontal derecha</i>                     |
| P 14 | Pretensioner LH                                       | <i>Prétendeur gauche</i>                                                                                            | <i>Pretensor izquierdo</i>                                                   |
| P 15 | Pretensioner RH                                       | <i>Prétendeur droit</i>                                                                                             | <i>Pretensor derecho</i>                                                     |
| R 9  | Rear Combination Light LH                             | <i>Eclairage arrière combiné gauche</i>                                                                             | <i>Luz de combinación trasera izquierda</i>                                  |
| R 10 | Rear Combination Light LH                             | <i>Eclairage arrière combiné gauche</i>                                                                             | <i>Luz de combinación trasera izquierda</i>                                  |
| R 11 | Rear Combination Light RH                             | <i>Eclairage arrière combiné droit</i>                                                                              | <i>Luz de combinación trasera derecha</i>                                    |
| R 12 | Rear Combination Light RH                             | <i>Eclairage arrière combiné droit</i>                                                                              | <i>Luz de combinación trasera derecha</i>                                    |
| R 13 | Rear Door LH ECU                                      | <i>ECU de porte arrière gauche</i>                                                                                  | <i>ECU de la puerta trasera izquierda</i>                                    |
| R 14 | Rear Door RH ECU                                      | <i>ECU de porte arrière droite</i>                                                                                  | <i>ECU de la puerta trasera derecha</i>                                      |
| R 15 | Rear Door Speaker LH                                  | <i>Haut-parleur de porte arrière gauche</i>                                                                         | <i>Altavoz de la puerta trasera izquierda</i>                                |
| R 16 | Rear Door Speaker RH                                  | <i>Haut-parleur de porte arrière droit</i>                                                                          | <i>Altavoz de la puerta trasera derecha</i>                                  |
| R 17 | Remote Control Mirror LH                              | <i>Rétroviseur à commande électrique gauche</i>                                                                     | <i>Espejo retrovisor de control remoto izquierdo</i>                         |
| R 18 | Remote Control Mirror RH                              | <i>Rétroviseur à commande électrique droit</i>                                                                      | <i>Espejo retrovisor de control remoto derecho</i>                           |
| S 13 | Side Airbag Sensor LH                                 | <i>Capteur de sac gonflable latéral gauche</i>                                                                      | <i>Sensor del colchón de aire lateral izquierdo</i>                          |
| S 14 | Side Airbag Sensor RH                                 | <i>Capteur de sac gonflable latéral droit</i>                                                                       | <i>Sensor del colchón de aire lateral derecho</i>                            |
| T 8  | Telephone Transceiver and Speaker Relay               | <i>Relais de haut-parleur et d'émetteur-récepteur de téléphone</i>                                                  | <i>Transceptor telefónico y relé del altavoz</i>                             |
| T 9  | Telephone Transceiver and Speaker Relay               | <i>Relais de haut-parleur et d'émetteur-récepteur de téléphone</i>                                                  | <i>Transceptor telefónico y relé del altavoz</i>                             |
| V 6  | Vanity Light LH                                       | <i>Eclairage gauche de miroir de maquillage</i>                                                                     | <i>Luz del espejo interior izquierda</i>                                     |
| V 7  | Vanity Light RH                                       | <i>Eclairage droit de miroir de maquillage</i>                                                                      | <i>Luz del espejo interior derecho</i>                                       |
| W 6  | Wireless Door Lock ECU                                | <i>ECU de condamnation de porte à commande radio</i>                                                                | <i>ECU de bloqueo de la puerta inalámbrica</i>                               |
| W 7  | Woofer (Speaker)                                      | <i>Woofer (haut-parleur)</i>                                                                                        | <i>Altavoz de graves (altavoz)</i>                                           |

## G ELECTRICAL WIRING ROUTING

### Position of Parts in Seat

[LHD]



## Position of Parts in Seat

| Code         | English                                                           | Français                                                                                                         | Español                                                                                          |
|--------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| B 7<br>B 8   | Buckle SW LH<br>Buckle SW RH                                      | Contacteur de boucle gauche<br>Contacteur de boucle droite                                                       | Interruptor de la hebilla izquierda<br>Interruptor de la hebilla derecha                         |
| J 23<br>J 24 | Junction Connector<br>Junction Connector                          | Bloc raccord de jonction<br>Bloc raccord de jonction                                                             | Conector de enlace<br>Conector de enlace                                                         |
| L 8          | Lumbar Support Control SW (Driver's Seat)                         | Commutateur de réglage de support lombaire<br>(siège de conducteur)                                              | Interruptor de control del soporte lumbar (asiento del conductor)                                |
| L 9          | Lumbar Support Control SW (Front Passenger's Seat)                | Commutateur de réglage de support lombaire<br>(siège de passager avant)                                          | Interruptor de control del soporte lumbar (asiento del pasajero delantero)                       |
| P 16         | Power Seat Control SW (Driver's Seat)                             | Commande de siège à commande électrique<br>(siège de conducteur)                                                 | Interruptor de control del asiento eléctrico (asiento del conductor)                             |
| P 17         | Power Seat Control SW (Front Passenger's Seat)                    | Commande de siège à commande électrique<br>(siège de passager avant)                                             | Interruptor de control del asiento eléctrico (asiento del pasajero delantero)                    |
| P 18         | Power Seat ECU                                                    | ECU de siège à commande électrique                                                                               | ECU del asiento eléctrico                                                                        |
| P 19         | Power Seat ECU                                                    | ECU de siège à commande électrique                                                                               | ECU del asiento eléctrico                                                                        |
| P 20         | Power Seat Motor (Driver's Seat Front Vertical Control)           | Moteur de siège à commande électrique<br>(commande de réglage vertical avant de siège de conducteur)             | Motor del asiento eléctrico (control vertical frontal del asiento del conductor)                 |
| P 21         | Power Seat Motor (Driver's Seat Lumbar Support Control)           | Moteur de siège à commande électrique<br>(commande de réglage de support lombaire de siège de conducteur)        | Motor del asiento eléctrico (control del soporte lumbar del asiento del conductor)               |
| P 22         | Power Seat Motor (Driver's Seat Rear Vertical Control)            | Moteur de siège à commande électrique<br>(commande de réglage vertical arrière de siège de conducteur)           | Motor del asiento eléctrico (control vertical trasero del asiento del conductor)                 |
| P 23         | Power Seat Motor (Driver's Seat Reclining Control)                | Moteur de siège à commande électrique<br>(commande de réglage d'inclinaison de siège de conducteur)              | Motor del asiento eléctrico (control de inclinación del asiento del conductor)                   |
| P 24         | Power Seat Motor (Driver's Seat Slide Control)                    | Moteur de siège à commande électrique<br>(commande de translation de siège de conducteur)                        | Motor del asiento eléctrico (control deslizante del asiento del conductor)                       |
| P 25         | Power Seat Motor (Front Passenger's Seat Front Vertical Control)  | Moteur de siège à commande électrique<br>(commande de réglage vertical arrière de siège de passager avant)       | Motor del asiento eléctrico (control vertical trasero del asiento del pasajero delantero)        |
| P 26         | Power Seat Motor (Front Passenger's Seat Lumbar Support Control)  | Moteur de siège à commande électrique<br>(commande de réglage de support lombaire de siège de passager avant)    | Motor del asiento eléctrico (control del soporte lumbar del asiento del pasajero delantero)      |
| P 27         | Power Seat Motor (Front Passenger's Seat Rear Vertical Control)   | Moteur de siège à commande électrique<br>(commande de réglage vertical de siège de passager avant)               | Motor del asiento eléctrico (control vertical trasero del asiento del pasajero delantero)        |
| P 28         | Power Seat Motor (Front Passenger's Seat Reclining Control)       | Moteur de siège à commande électrique<br>(commande de réglage d'inclinaison de siège de passager avant)          | Motor del asiento eléctrico (control de inclinación del asiento del pasajero delantero)          |
| P 29         | Power Seat Motor (Front Passenger's Seat Slide Control)           | Moteur de siège à commande électrique<br>(commande de translation de siège de passager avant)                    | Motor del asiento eléctrico (control deslizante del asiento del pasajero delantero)              |
| P 30         | Power Seat Position Sensor (Driver's Seat Front Vertical Control) | Capteur de position de siège à commande électrique (commande de réglage vertical avant de siège de conducteur)   | Sensor de la posición del asiento eléctrico (control vertical frontal del asiento del conductor) |
| P 31         | Power Seat Position Sensor (Driver's Seat Rear Vertical Control)  | Capteur de position de siège à commande électrique (commande de réglage vertical arrière de siège de conducteur) | Sensor de la posición del asiento eléctrico (control vertical trasero del asiento del conductor) |
| P 32         | Power Seat Position Sensor (Driver's Seat Reclining Control)      | Capteur de position de siège à commande électrique (commande de réglage d'inclinaison de siège de conducteur)    | Sensor de la posición del asiento eléctrico (control de inclinación del asiento del conductor)   |
| P 33         | Power Seat Position Sensor (Driver's Seat Slide Control)          | Capteur de position de siège à commande électrique (commande de translation de siège de conducteur)              | Sensor de la posición del asiento eléctrico (control deslizante del asiento del conductor)       |
| S 15         | Seat Belt Warning Occupant Detection Sensor                       | Capteur de détection d'occupant de rappel de ceinture de sécurité                                                | Sección de detección de ocupante con aviso de cinturón de seguridad                              |
| S 16         | Seat Heater (Driver's Seat Back)                                  | Chauffage de siège (dossier de siège de conducteur)                                                              | Calefactor del asiento (respaldo del asiento del conductor)                                      |
| S 17         | Seat Heater (Driver's Seat Cushion)                               | Chauffage de siège (coussin de siège de conducteur)                                                              | Calefactor del asiento (almohadilla del asiento del conductor)                                   |
| S 18         | Seat Heater (Front Passenger's Seat Back)                         | Chauffage de siège (de dossier de siège de passager avant)                                                       | Calefactor del asiento (respaldo del asiento del pasajero delantero)                             |
| S 19         | Seat Heater (Front Passenger's Seat Cushion)                      | Chauffage de siège (de coussin de siège de passager avant)                                                       | Calefactor del asiento (almohadilla del asiento del pasajero delantero)                          |
| S 20         | Side Airbag Squib LH                                              | Charge explosive de sac gonflable latéral gauche                                                                 | Detonador del colchón de aire lateral izquierdo                                                  |
| S 21         | Side Airbag Squib RH                                              | Charge explosive de sac gonflable latéral droit                                                                  | Detonador del colchón de aire lateral derecho                                                    |

English

Français

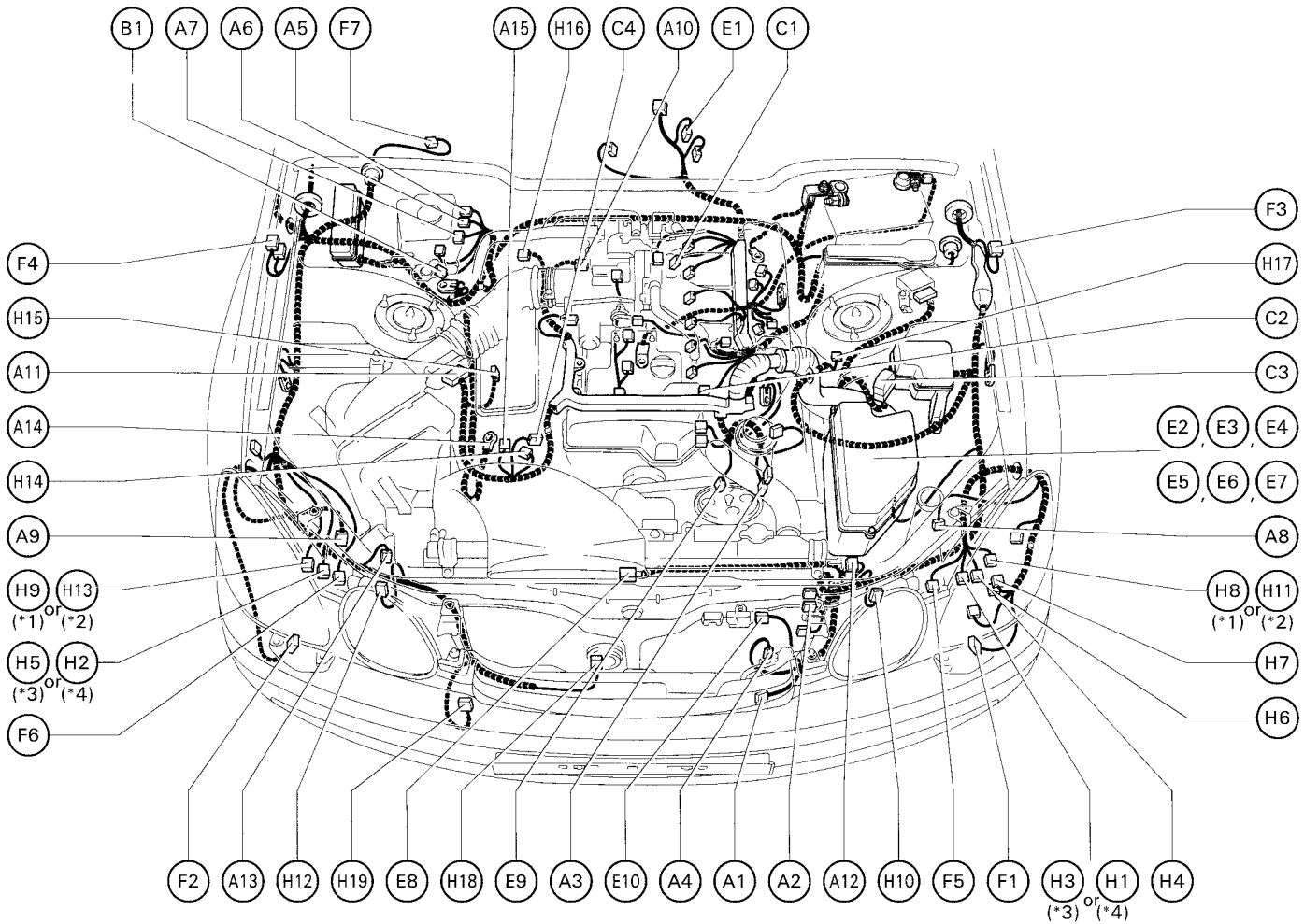
Español

## G ELECTRICAL WIRING ROUTING

### Position of Parts in Engine Compartment

[RHD : Engine 1]

- \*1 : HID Type
- \*2 : Except HID Type
- \*3 : w/ Headlight Beam Level Control (Automatic)
- \*4 : w/ Headlight Beam Level Control (Manual)



# Position of Parts in Engine Compartment

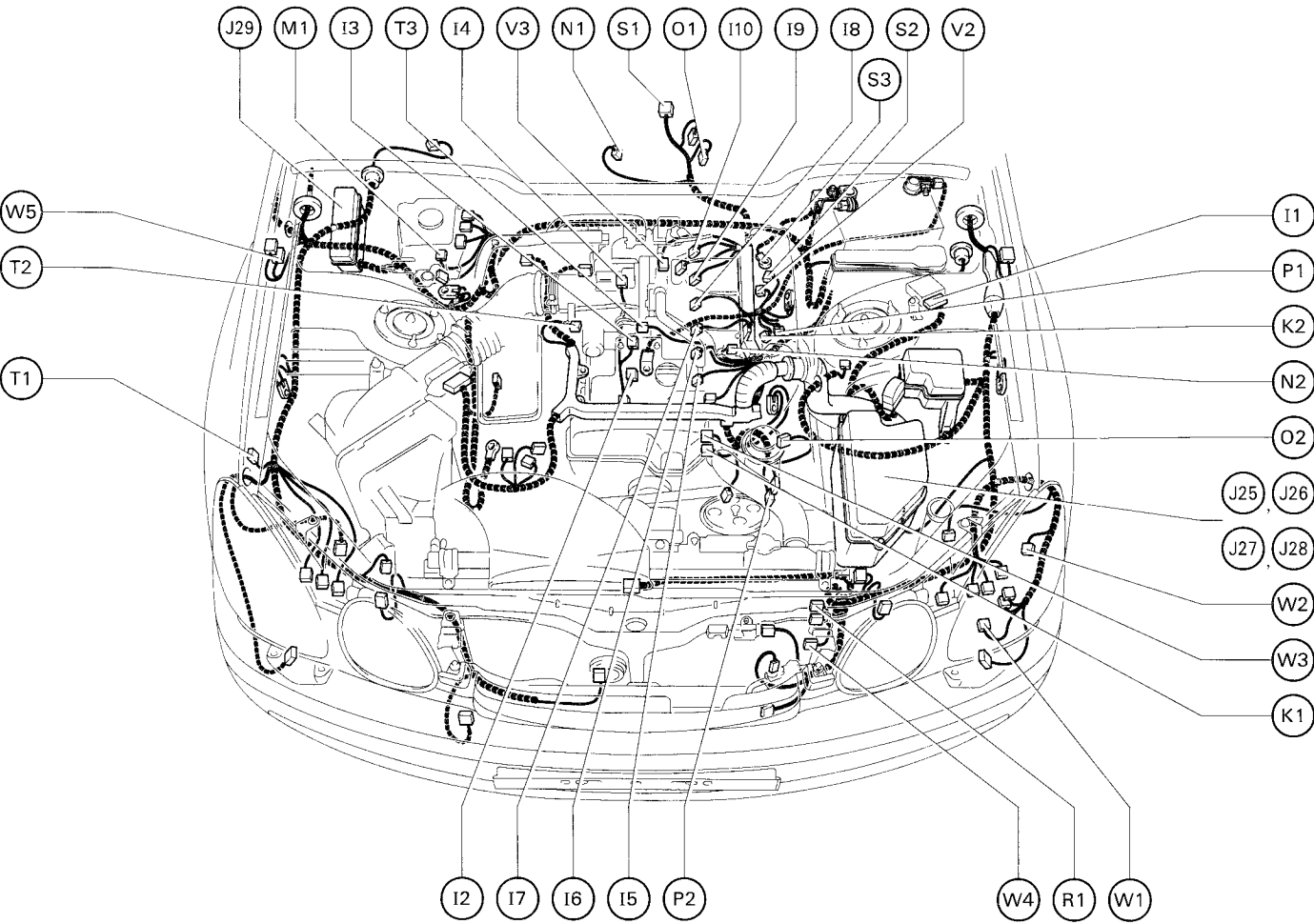
| Code | English                                                  | Français                                                                               | Español                                                                                 |
|------|----------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| A 1  | A/C Ambient Temp. Sensor                                 | Capteur de température ambiante de A/C                                                 | Sensor del temperatura ambiente del A/C                                                 |
| A 2  | A/C Condenser Fan Motor                                  | Moteur de ventilateur de condenseur de A/C                                             | Motor del ventilador del condensador del A/C                                            |
| A 3  | A/C Magnetic Clutch and Lock Sensor                      | Accouplement magnétique de A/C et capteur de blocage                                   | Embrague magnético del A/C y sensor de bloqueo del A/C                                  |
| A 4  | A/C Triple Pressure SW (A/C Dual and Single Pressure SW) | Triple pressostat de A/C (double pressostat et pressostat simple de A/C)               | Interruptor de presión triple del A/C (interruptor de presión doble y sencillo del A/C) |
| A 5  | ABS & TRC & VSC Actuator                                 | Dispositif de commande ABS & TRC & VSC                                                 | Actuador de ABS y TRC y VSC                                                             |
| A 6  | ABS & TRC & VSC Actuator                                 | Dispositif de commande ABS & TRC & VSC                                                 | Actuador de ABS y TRC y VSC                                                             |
| A 7  | ABS & TRC & VSC Actuator                                 | Dispositif de commande ABS & TRC & VSC                                                 | Actuador de ABS y TRC y VSC                                                             |
| A 8  | ABS Speed Sensor Front LH                                | Capteur de vitesse de ABS avant gauche                                                 | Sensor de velocidad de ABS, frontal izquierdo                                           |
| A 9  | ABS Speed Sensor Front RH                                | Capteur de vitesse de ABS avant droit                                                  | Sensor de velocidad de ABS, frontal derecho                                             |
| A 10 | Accel Position Sensor                                    | Capteur de position d'accélérateur                                                     | Sensor de la posición del acelerador                                                    |
| A 11 | Air Flow Meter                                           | Débitmètre d'air                                                                       | Medidor de flujo de aire                                                                |
| A 12 | Airbag Sensor Front LH                                   | Capteur de sac gonflable avant gauche                                                  | Sensor del colchón de aire delantero izquierdo                                          |
| A 13 | Airbag Sensor Front RH                                   | Capteur de sac gonflable avant droit                                                   | Sensor del colchón de aire delantero derecho                                            |
| A 14 | Alternator                                               | Alternateur                                                                            | Alternador                                                                              |
| A 15 | Alternator                                               | Alternateur                                                                            | Alternador                                                                              |
| B 1  | Brake Fluid Level Warning SW                             | Contacteur de rappel de niveau de liquide de frein                                     | Interruptor de advertencia del nivel del líquido de frenos                              |
| C 1  | Camshaft Position Sensor                                 | Capteur de position d'arbre à cames                                                    | Sensor de posición del árbol de levas                                                   |
| C 2  | Camshaft Timing Oil Control Valve                        | Distributeur hydraulique de synchronisation d'arbre cames                              | Válvula de control del aceite de distribución del árbol de levas                        |
| C 3  | Check Connector                                          | Bloc raccord de câblage de diagnostic                                                  | Conector de comprobación                                                                |
| C 4  | Crankshaft Position Sensor                               | Capteur de position de vilebrequin                                                     | Sensor de posición del cigüeñal                                                         |
| E 1  | ECT Solenoid                                             | Solénoïde de commande ECT                                                              | Solenóide de ECT                                                                        |
| E 2  | Engine and ECT ECU                                       | ECU de moteur et de boîte ECT                                                          | ECU del motor y ECT                                                                     |
| E 3  | Engine and ECT ECU                                       | ECU de moteur et de boîte ECT                                                          | ECU del motor y ECT                                                                     |
| E 4  | Engine and ECT ECU                                       | ECU de moteur et de boîte ECT                                                          | ECU del motor y ECT                                                                     |
| E 5  | Engine and ECT ECU                                       | ECU de moteur et de boîte ECT                                                          | ECU del motor y ECT                                                                     |
| E 6  | Engine and ECT ECU                                       | ECU de moteur et de boîte ECT                                                          | ECU del motor y ECT                                                                     |
| E 7  | Engine and ECT ECU                                       | ECU de moteur et de boîte ECT                                                          | ECU del motor y ECT                                                                     |
| E 8  | Engine Hood Courtesy SW                                  | Contacteur d'éclairage de courtoisie de compartiment moteur                            | Interruptor de cortesía del capo del motor                                              |
| E 9  | Engine Oil Level Sensor                                  | Capteur de niveau d'huile moteur                                                       | Sensor del nivel de aceite del motor                                                    |
| E 10 | Exhaust Gas Sensor                                       | Capteur de gaz d'échappement                                                           | Sensor de gases de escape                                                               |
| F 1  | Front Fog Light LH                                       | Projecteur antibrouillard avant gauche                                                 | Luz antiniebla frontal izquierda                                                        |
| F 2  | Front Fog Light RH                                       | Projecteur antibrouillard avant droit                                                  | Luz antiniebla frontal derecha                                                          |
| F 3  | Front Side Turn Signal Light LH                          | Feu de changement de direction latéral avant gauche                                    | Luz de la señal de giro lateral frontal izquierda                                       |
| F 4  | Front Side Turn Signal Light RH                          | Feu de changement de direction latéral avant droit                                     | Luz de la señal de giro lateral frontal derecha                                         |
| F 5  | Front Turn Signal and Clearance Light LH                 | Feux de changement de direction et feu d'encombrement avant gauche                     | Luz de la señal de giro lateral frontal y luz de paso izquierdas                        |
| F 6  | Front Turn Signal and Clearance Light RH                 | Feux de changement de direction et feu d'encombrement avant droit                      | Luz de la señal de giro lateral frontal y luz de paso derechas                          |
| F 7  | Front Wiper Motor                                        | Moteur d'essuie-glace de pare-brise                                                    | Motor del limpiador frontal                                                             |
| H 1  | Headlight Beam Level Control Actuator LH                 | Dispositif de commande de réglage d'orientation de faisceau de projecteur avant gauche | Actuador de control del nivel del haz del faro izquierdo                                |
| H 2  | Headlight Beam Level Control Actuator RH                 | Dispositif de commande de réglage d'orientation de faisceau de projecteur avant droit  | Actuador de control del nivel del haz del faro derecho                                  |
| H 3  | Headlight Beam Level Control ECU                         | ECU de commande de réglage d'orientation de faisceau de projecteur avant               | ECU de control del nivel del haz del faro                                               |
| H 4  | Headlight Beam Level Control ECU                         | ECU de commande de réglage d'orientation de faisceau de projecteur avant               | ECU de control del nivel del haz del faro                                               |
| H 5  | Headlight Beam Level Control Motor                       | Moteur de commande de réglage d'orientation de faisceau de projecteur avant            | Motor de control del nivel del haz del faro                                             |
| H 6  | Headlight Cleaner Control Relay                          | Relais de commande de lave-projecteur avant                                            | Relé de control del limpiador del faro                                                  |
| H 7  | Headlight Cleaner Motor                                  | Moteur de lave-projecteur avant                                                        | Motor del limpiador del faro                                                            |
| H 8  | Headlight Control ECU LH                                 | ECU de commande de projecteur avant gauche                                             | ECU de control del faro izquierdo                                                       |
| H 9  | Headlight Control ECU RH                                 | ECU de commande de projecteur avant droit                                              | ECU de control del faro derecho                                                         |
| H 10 | Headlight LH (High)                                      | Projecteur avant gauche (feux de route)                                                | Faro izquierdo (luz de carretera)                                                       |
| H 11 | Headlight LH (Low)                                       | Projecteur avant gauche (feux de croisement)                                           | Faro izquierdo (luz de cruce)                                                           |
| H 12 | Headlight RH (High)                                      | Projecteur avant droit (feux de route)                                                 | Faro derecho (luz de carretera)                                                         |
| H 13 | Headlight RH (Low)                                       | Projecteur avant droit (feux de croisement)                                            | Faro derecho (luz de cruce)                                                             |
| H 14 | Heated Oxygen Sensor (Bank 1 Sensor 1)                   | Capteur d'oxygène réchauffé (rangée 1, capteur 1)                                      | Sensor de oxígeno calentado (banco 1 sensor 1)                                          |
| H 15 | Heated Oxygen Sensor (Bank 1 Sensor 2)                   | Capteur d'oxygène réchauffé (rangée 1, capteur 2)                                      | Sensor de oxígeno calentado (banco 1 sensor 2)                                          |
| H 16 | Heated Oxygen Sensor (Bank 2 Sensor 1)                   | Capteur d'oxygène réchauffé (rangée 2, capteur 1)                                      | Sensor de oxígeno calentado (banco 2 sensor 1)                                          |
| H 17 | Height Control Sensor (Front)                            | Capteur de commande de réglage de hauteur (avant)                                      | Sensor de control de la altura (frontal)                                                |
| H 18 | Horn LH                                                  | Avertisseur gauche                                                                     | Bocina izquierda                                                                        |
| H 19 | Horn RH                                                  | Avertisseur droit                                                                      | Bocina derecha                                                                          |

G ELECTRICAL WIRING ROUTING

Position of Parts in Engine Compartment

[RHD : Engine 2]

English



## Position of Parts in Engine Compartment

| Code | English                         | Français                                              | Español                                               |
|------|---------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| I 1  | Igniter                         | Allumeur                                              | Encendedor                                            |
| I 2  | Ignition Coil No.1              | Bobine d'allumage no.1                                | Bobina de encendido N.º1                              |
| I 3  | Ignition Coil No.2              | Bobine d'allumage no.2                                | Bobina de encendido N.º2                              |
| I 4  | Ignition Coil No.3              | Bobine d'allumage no.3                                | Bobina de encendido N.º3                              |
| I 5  | Injector No.1                   | Injecteur no.1                                        | Injector N.º1                                         |
| I 6  | Injector No.2                   | Injecteur no.2                                        | Injector N.º2                                         |
| I 7  | Injector No.3                   | Injecteur no.3                                        | Injector N.º3                                         |
| I 8  | Injector No.4                   | Injecteur no.4                                        | Injector N.º4                                         |
| I 9  | Injector No.5                   | Injecteur no.5                                        | Injector N.º5                                         |
| I 10 | Injector No.6                   | Injecteur no.6                                        | Injector N.º6                                         |
| J 25 | Junction Connector              | Bloc raccord de jonction                              | Conector de enlace                                    |
| J 26 | Junction Connector              | Bloc raccord de jonction                              | Conector de enlace                                    |
| J 27 | Junction Connector              | Bloc raccord de jonction                              | Conector de enlace                                    |
| J 28 | Junction Connector              | Bloc raccord de jonction                              | Conector de enlace                                    |
| J 29 | Junction Connector              | Bloc raccord de jonction                              | Conector de enlace                                    |
| K 1  | Knock Sensor 1                  | Capteur de cognement moteur 1                         | Sensor de golpeo 1                                    |
| K 2  | Knock Sensor 2                  | Capteur de cognement moteur 2                         | Sensor de golpeo 2                                    |
| M 1  | Master Cylinder Pressure Sensor | Capteur de pression de maître-cylindre                | Sensor de presión del cilindro principal              |
| N 1  | Neutral Start SW                | Contacteur de démarrage au point mort                 | Interruptor de arranque en punto muerto               |
| N 2  | Noise Filter (Ignition)         | Filtre antiparasites (allumage)                       | Filtro de ruido (encendido)                           |
| O 1  | O/D Direct Clutch Speed Sensor  | Capteur de vitesse d'embrayage de O/D                 | Sensor de velocidad del embrague directo de O/D       |
| O 2  | Oil Pressure SW                 | Manocontact de pression d'huile                       | Interruptor de presión de aceite                      |
| P 1  | Power Steering Oil Pressure SW  | Manocontact de pression d'huile de direction assistée | Interruptor de presión de aceite de la servodirección |
| P 2  | PPS Solenoid                    | Solénoïde de commande de direction PPS                | Solenoid de PPS                                       |
| R 1  | Radiator Fan Motor              | Moteur de ventilateur de radiateur                    | Motor del ventilador del radiador                     |
| S 1  | Speed Sensor (ECT)              | Capteur de vitesse (ECT)                              | Sensor de velocidad (ECT)                             |
| S 2  | Starter                         | Démarrreur                                            | Arrancador                                            |
| S 3  | Starter                         | Démarrreur                                            | Arrancador                                            |
| T 1  | Theft Deterrent Horn            | Avertisseur de dissuasion contre le vol               | Bocina del sistema antirrobo                          |
| T 2  | Throttle Control Motor          | Moteur de commande de papillon d'accélération         | Motor de control del acelerador                       |
| T 3  | Throttle Position Sensor        | Capteur de position de papillon d'accélération        | Sensor de posición del acelerador                     |
| V 2  | VSV (ACIS)                      | VSV (ACIS)                                            | VSV (ACIS)                                            |
| V 3  | VSV (EVAP)                      | VSV (EVAP)                                            | VSV (EVAP)                                            |
| W 1  | Washer Level Warning SW         | Contacteur de niveau de liquide de lave-glace         | Interruptor de advertencia de nivel de lavador        |
| W 2  | Washer Motor                    | Moteur de lave-glace                                  | Motor del lavador                                     |
| W 3  | Water Temp. Sensor              | Capteur de température d'eau                          | Sensor de la temperatura del agua                     |
| W 4  | Water Temp. SW                  | Contacteur de température d'eau                       | Interruptor de la temperatura del agua                |
| W 5  | Wireless Door Lock Buzzer       | Avertisseur de condamnation de porte à commande radio | Zumbador de bloqueo de la puerta inalámbrico          |

English

Français

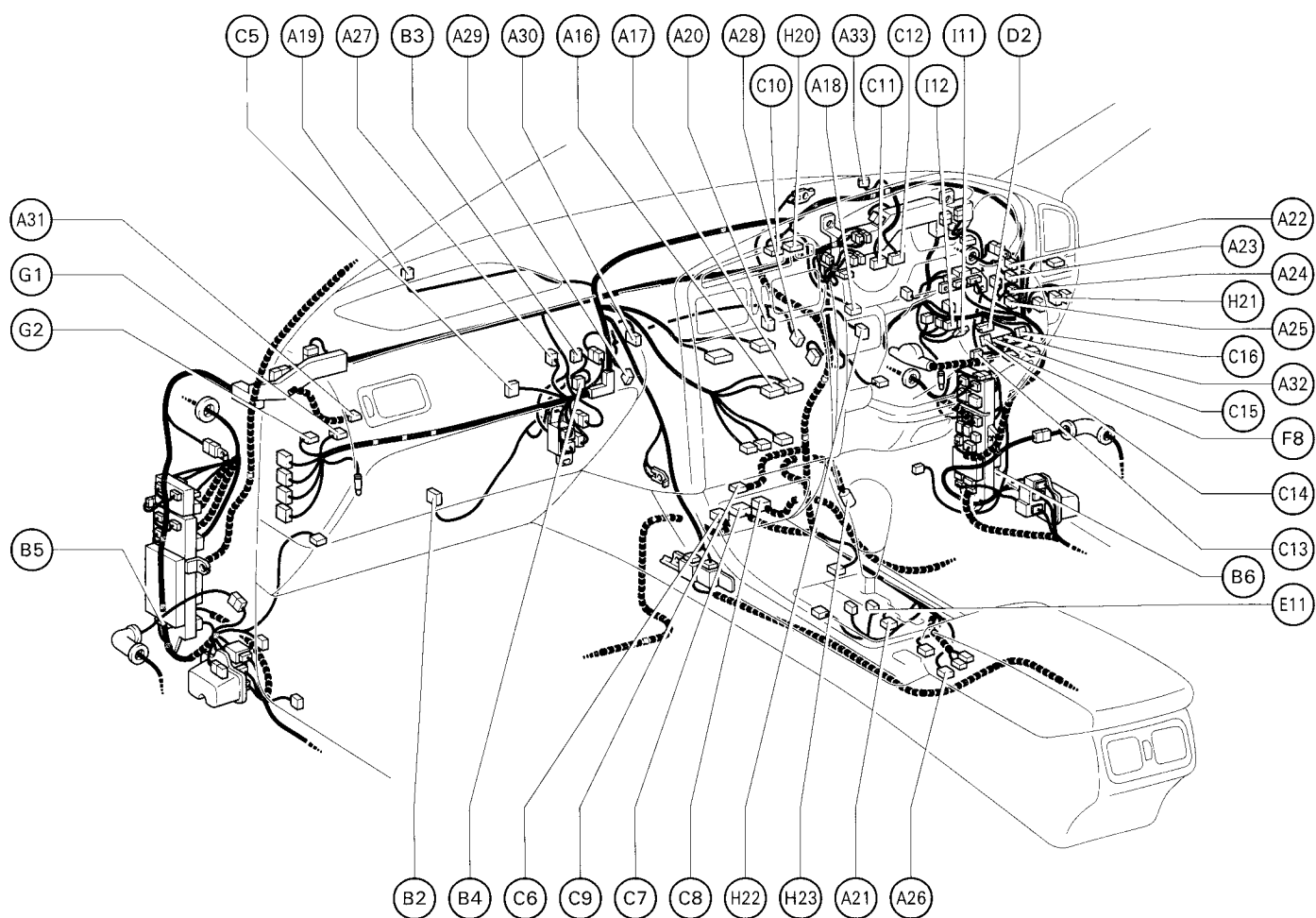
Español



## G ELECTRICAL WIRING ROUTING

### Position of Parts in Instrument Panel

[RHD : Instrument Panel 1]



## Position of Parts in Instrument Panel

| Code | English                                            | Français                                                                        | Español                                                                             |
|------|----------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| A 16 | A/C Control Assembly                               | Ensemble de platine de commande de A/C                                          | Conjunto de control del A/C                                                         |
| A 17 | A/C Control Assembly                               | Ensemble de platine de commande de A/C                                          | Conjunto de control del A/C                                                         |
| A 18 | A/C Room Temp. Sensor                              | Capteur de température ambiante d'habitacle de A/C                              | Sensor de la temperatura del compartimiento del A/C                                 |
| A 19 | A/C Solar Sensor                                   | Capteur solaire de A/C                                                          | Sensor solar del A/C                                                                |
| A 20 | A/C Thermistor                                     | Thermistance de A/C                                                             | Termistor del A/C                                                                   |
| A 21 | A/T Shift Position Illumination                    | Eclairage de position de changement de vitesses de A/T                          | Illuminación de la posición de cambios de la A/T                                    |
| A 22 | ABS & TRC & VSC ECU                                | ECU de ABS & TRC & VSC                                                          | ECU de ABS y TRC y VSC                                                              |
| A 23 | ABS & TRC & VSC ECU                                | ECU de ABS & TRC & VSC                                                          | ECU de ABS y TRC y VSC                                                              |
| A 24 | ABS & TRC & VSC ECU                                | ECU de ABS & TRC & VSC                                                          | ECU de ABS y TRC y VSC                                                              |
| A 25 | ABS & TRC & VSC ECU                                | ECU de ABS & TRC & VSC                                                          | ECU de ABS y TRC y VSC                                                              |
| A 26 | ABS Deceleration Sensor                            | Capteur de décélération ABS                                                     | Sensor de desaceleración del ABS                                                    |
| A 27 | Air Inlet Control Servo Motor                      | Servomoteur de commande d'admission d'air                                       | Servomotor de control de la entrada de aire                                         |
| A 28 | Air Mix Control Servo Motor (Driver Side)          | Servomoteur de commande de mélange d'air (coté conducteur)                      | Servomotor de control de mezcla de aire (lado del conductor)                        |
| A 29 | Air Mix Control Servo Motor (Front Passenger Side) | Servomoteur de commande de mélange d'air (coté passager avant)                  | Servomotor de control de mezcla de aire (lado del pasajero delantero)               |
| A 30 | Air Vent Mode Control Servo Motor                  | Servomoteur de commande de mode d'aération                                      | Servomotor de control del modo de ventilación de aire                               |
| A 31 | Airbag Squib (Front Passenger Airbag Assembly)     | Charge explosive de sac gonflable (ensemble de sac gonflable de passager avant) | Detonador del colchón de aire (conjunto del colchón de aire del pasajero delantero) |
| A 32 | Airbag Squib (Steering Wheel Pad)                  | Charge explosive de sac gonflable (rembourrage de volant de direction)          | Detonador del colchón de aire (almohadilla del volante de dirección)                |
| A 33 | Automatic Light Control Sensor                     | Capteur de commande d'éclairage automatique                                     | Sensor del control automático de las luces                                          |
| B 2  | Blower Motor                                       | Moteur de soufflerie                                                            | Motor del soplador                                                                  |
| B 3  | Blower Motor Controller                            | Contrôleur de moteur de soufflerie                                              | Controlador del motor del soplador                                                  |
| B 4  | Blower Motor Controller                            | Contrôleur de moteur de soufflerie                                              | Controlador del motor del soplador                                                  |
| B 5  | Body ECU No.1                                      | ECU de carrosserie no.1                                                         | ECU de la carrocería N:1                                                            |
| B 6  | Body ECU No.2                                      | ECU de carrosserie no.2                                                         | ECU de la carrocería N:2                                                            |
| C 5  | CD Automatic Changer                               | Changeur automatique de CD                                                      | Cargador automático de CD                                                           |
| C 6  | Center Airbag Sensor Assembly                      | Ensemble de capteur de sac gonflable central                                    | Conjunto del sensor del colchón de aire central                                     |
| C 7  | Center Airbag Sensor Assembly                      | Ensemble de capteur de sac gonflable central                                    | Conjunto del sensor del colchón de aire central                                     |
| C 8  | Center Airbag Sensor Assembly                      | Ensemble de capteur de sac gonflable central                                    | Conjunto del sensor del colchón de aire central                                     |
| C 9  | Cigarette Lighter                                  | Allume-cigare                                                                   | Encendedor de cigarrillos                                                           |
| C 10 | Clock                                              | Montre électrique de bord                                                       | Reloj                                                                               |
| C 11 | Combination Meter                                  | Combiné de bord                                                                 | Medidor de combinación                                                              |
| C 12 | Combination Meter                                  | Combiné de bord                                                                 | Medidor de combinación                                                              |
| C 13 | Combination SW                                     | Commande combinée                                                               | Interruptor de combinación                                                          |
| C 14 | Combination SW                                     | Commande combinée                                                               | Interruptor de combinación                                                          |
| C 15 | Combination SW                                     | Commande combinée                                                               | Interruptor de combinación                                                          |
| C 16 | Combination SW                                     | Commande combinée                                                               | Interruptor de combinación                                                          |
| D 2  | DLC3                                               | DLC3                                                                            | DLC3                                                                                |
| E 11 | ECT Pattern Select SW                              | Sélecteur de mode de sélection de rapport de boîte ECT                          | Selector de patrón de ECT                                                           |
| F 8  | Fuel Lid Opener SW                                 | Contacteur de dispositif d'ouverture de trappe de réservoir à essence           | Interruptor del abridor de la tapa de combustible                                   |
| G 1  | Glove Box Light                                    | Eclairage de boîte à gants                                                      | Luz de la guantera                                                                  |
| G 2  | Glove Box Light SW                                 | Contacteur d'éclairage de boîte à gants                                         | Interruptor de la luz de la guantera                                                |
| H 20 | Hazard SW                                          | Commande de feux de détresse                                                    | Interruptor de peligro                                                              |
| H 21 | Headlight Beam Level Control SW                    | Commande de réglage d'orientation de faisceau de projecteur avant               | Interruptor de control del nivel del haz del faro                                   |
| H 22 | Headlight Cleaner SW                               | Commande de lave-projecteur avant                                               | Interruptor del limpiador del faro                                                  |
| H 23 | Heated Oxygen Sensor (Bank 2 Sensor 2)             | Capteur d'oxygène réchauffé (rangée 2, capteur 2)                               | Sensor de oxígeno calentado (banco 2 sensor 2)                                      |
| I 11 | Ignition Key Cylinder Light                        | Eclairage de barillet de contacteur d'allumage                                  | Luz del cilindro de la llave de encendido                                           |
| I 12 | Ignition SW                                        | Contacteur d'allumage                                                           | Interruptor de encendido                                                            |

English

Français

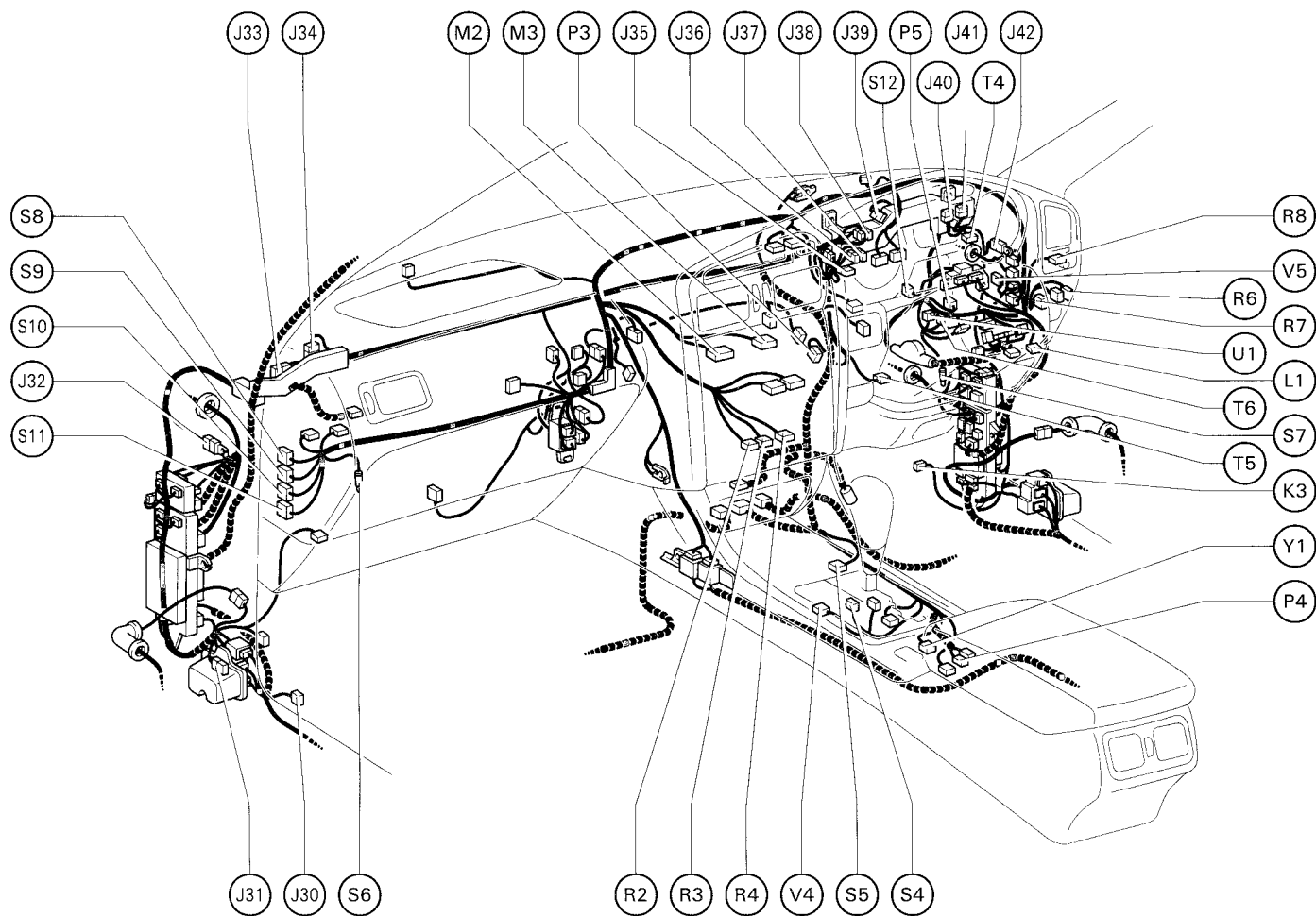
Español

G ELECTRICAL WIRING ROUTING

Position of Parts in Instrument Panel

[RHD : Instrument Panel 2]

English



# Position of Parts in Instrument Panel

| Code | English                                      | Français                                                                              | Español                                                                                 |
|------|----------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| J 30 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 31 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 32 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 33 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 34 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 35 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 36 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 37 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 38 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 39 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 40 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 41 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| J 42 | Junction Connector                           | <i>Bloc raccord de jonction</i>                                                       | <i>Conector de enlace</i>                                                               |
| K 3  | Kick Down SW                                 | <i>Contacteur de rétrogradation</i>                                                   | <i>Interruptor del retirador</i>                                                        |
| L 1  | Luggage Compartment Door Opener SW           | <i>Dispositif d'ouverture de porte de compartiment à bagages</i>                      | <i>Interruptor del abridor de la puerta del portaequipajes</i>                          |
| M 2  | Multi-Display                                | <i>Afficheur multifonctions</i>                                                       | <i>Visualizador múltiple</i>                                                            |
| M 3  | Multi-Display                                | <i>Afficheur multifonctions</i>                                                       | <i>Visualizador múltiple</i>                                                            |
| P 3  | Parking Brake SW                             | <i>Contacteur de frein de stationnement</i>                                           | <i>Interruptor del freno de estacionamiento</i>                                         |
| P 4  | Power Outlet                                 | <i>Prise d'alimentation</i>                                                           | <i>Toma de alimentación</i>                                                             |
| P 5  | PPS ECU                                      | <i>PPS ECU</i>                                                                        | <i>ECU PPS</i>                                                                          |
| R 2  | Radio and Player                             | <i>Autoradio et lecteur de cassettes</i>                                              | <i>Radio y reproductor</i>                                                              |
| R 3  | Radio and Player                             | <i>Autoradio et lecteur de cassettes</i>                                              | <i>Radio y reproductor</i>                                                              |
| R 4  | Radio and Player                             | <i>Autoradio et lecteur de cassettes</i>                                              | <i>Radio y reproductor</i>                                                              |
| R 6  | Rear Fog Light SW                            | <i>Commande de projecteur antibrouillard arrière</i>                                  | <i>Interruptor de la luz antiniebla trasera</i>                                         |
| R 7  | Remote Control Mirror SW                     | <i>Commande de rétroviseur à commande électrique</i>                                  | <i>Interruptor del espejo retrovisor de control remoto</i>                              |
| R 8  | Rheostat                                     | <i>Rhéostat</i>                                                                       | <i>Reóstato</i>                                                                         |
| S 4  | Seat Heater SW                               | <i>Commande de chauffage de siège</i>                                                 | <i>Interruptor del calefactor del asiento</i>                                           |
| S 5  | Shift Lock Control ECU                       | <i>ECU de commande de verrouillage de sécurité de changement de vitesses</i>          | <i>ECU de control de bloqueo de cambios</i>                                             |
| S 6  | Step Light LH                                | <i>Eclairage de marche pied gauche</i>                                                | <i>Luz del peldaño izquierda</i>                                                        |
| S 7  | Step Light RH                                | <i>Eclairage de marche pied droit</i>                                                 | <i>Luz del peldaño derecha</i>                                                          |
| S 8  | Stereo Component Amplifier                   | <i>Amplificateur stéréo</i>                                                           | <i>Amplificador de componente estéreo</i>                                               |
| S 9  | Stereo Component Amplifier                   | <i>Amplificateur stéréo</i>                                                           | <i>Amplificador de componente estéreo</i>                                               |
| S 10 | Stereo Component Amplifier                   | <i>Amplificateur stéréo</i>                                                           | <i>Amplificador de componente estéreo</i>                                               |
| S 11 | Stereo Component Amplifier                   | <i>Amplificateur stéréo</i>                                                           | <i>Amplificador de componente estéreo</i>                                               |
| S 12 | Stop Light SW                                | <i>Contacteur de feux stop</i>                                                        | <i>Interruptor de la luz de parada</i>                                                  |
| T 4  | Telephone Microphone                         | <i>Microphone de téléphone</i>                                                        | <i>Microfono del teléfono</i>                                                           |
| T 5  | Tilt and Telescopic ECU                      | <i>ECU de réglage d'inclinaison et télescopique</i>                                   | <i>ECU de inclinación y telescópica</i>                                                 |
| T 6  | Transponder Key Amplifier                    | <i>Amplificateur de clé de transpondeur</i>                                           | <i>Amplificador de la llave de transmisor</i>                                           |
| U 1  | Unlock Warning SW and Key Interlock Solenoid | <i>Contacteur de rappel de libération et solénoïde de commande de couplage de clé</i> | <i>Interruptor de advertencia de desbloqueo y solenoide de interbloqueo de la llave</i> |
| V 4  | VSC Off SW                                   | <i>Commutateur VSC Off</i>                                                            | <i>Interruptor de desactivación VSC Off</i>                                             |
| V 5  | VSC Warning Buzzer                           | <i>Sonnerie de rappel de VSC</i>                                                      | <i>Zumbador de advertencia de VSC</i>                                                   |
| Y 1  | Yaw Rate Sensor                              | <i>Capteur de mouvement de lacet</i>                                                  | <i>Sensor relación de desvío</i>                                                        |

English

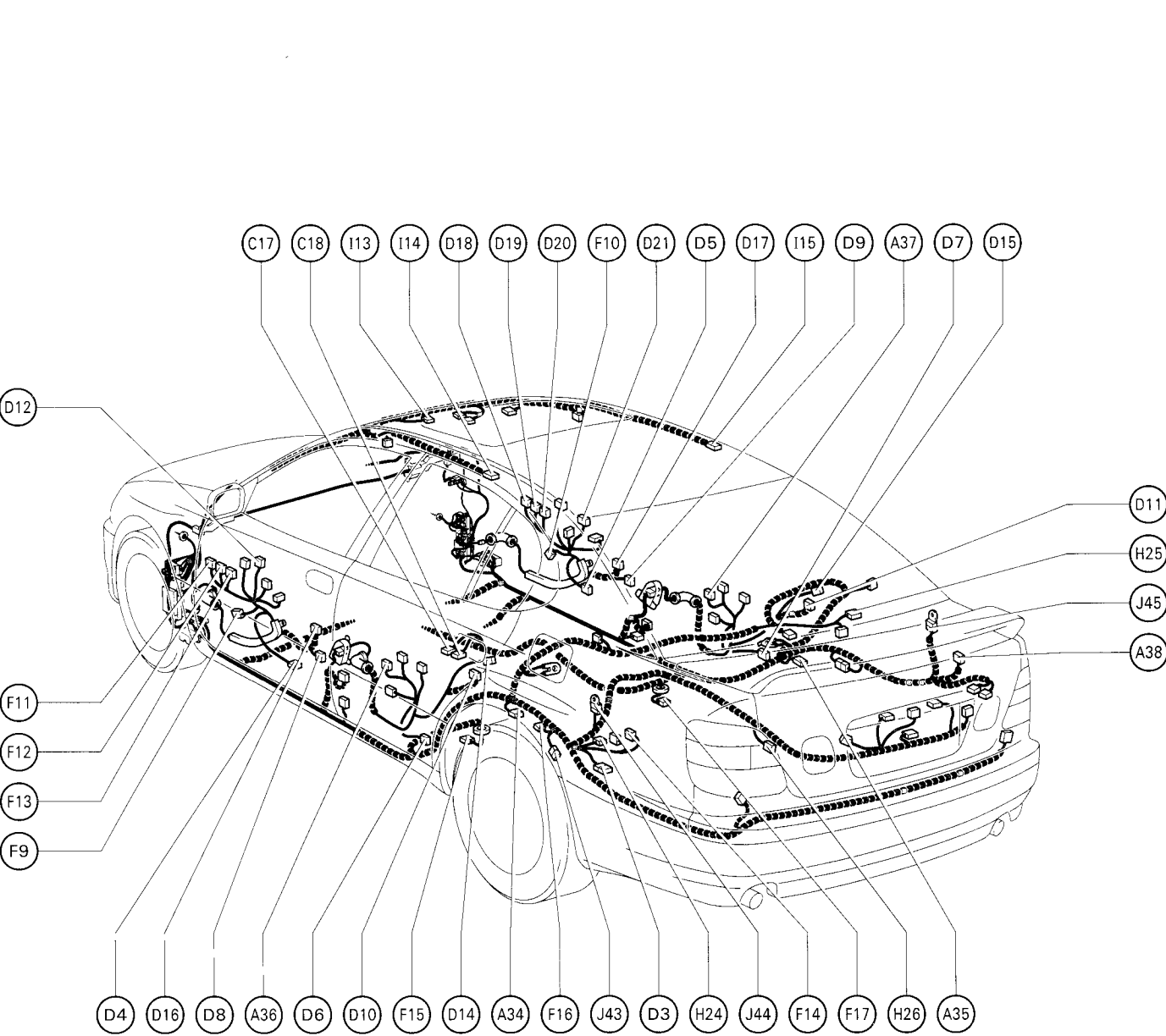
Français

Español

G ELECTRICAL WIRING ROUTING

Position of Parts in Body

[RHD : Body 1]



## Position of Parts in Body

| Code | English                                                                          | Français                                                                                                                                                           | Español                                                                                                                                                          |
|------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A 34 | ABS Speed Sensor Rear LH                                                         | Capteur de vitesse de ABS arrière gauche                                                                                                                           | Sensor de velocidad de ABS, trasero izquierdo                                                                                                                    |
| A 35 | ABS Speed Sensor Rear RH                                                         | Capteur de vitesse de ABS arrière droit                                                                                                                            | Sensor de velocidad de ABS, trasero derecho                                                                                                                      |
| A 36 | Ashtray Illumination Rear LH                                                     | Eclairage de cendrier arrière gauche                                                                                                                               | Iluminación del cenicero trasero izquierdo                                                                                                                       |
| A 37 | Ashtray Illumination Rear RH                                                     | Eclairage de cendrier arrière droit                                                                                                                                | Iluminación del cenicero trasero derecho                                                                                                                         |
| A 38 | Auto Antenna Control Relay and Motor                                             | Relais de commande et moteur d'antenne électrique                                                                                                                  | Relé y motor de control de la antena eléctrica                                                                                                                   |
| C 17 | Cellular Phone (Hand Set)                                                        | Téléphone cellulaire (combiné portatif)                                                                                                                            | Teléfono celular (microteléfono)                                                                                                                                 |
| C 18 | Cellular Phone (Hand Set)                                                        | Téléphone cellulaire (combiné portatif)                                                                                                                            | Teléfono celular (microteléfono)                                                                                                                                 |
| D 3  | Diode (Luggage Door Open Detection)                                              | Diode (détection d'ouverture de porte de compartiment bagages)                                                                                                     | Diodo (detección de abertura de la puerta de portaequipajes)                                                                                                     |
| D 4  | Door Courtesy Light Front LH                                                     | Eclairage de courtoisie sur porte avant gauche                                                                                                                     | Luz de cortesía de la puerta, frontal izquierda                                                                                                                  |
| D 5  | Door Courtesy Light Front RH                                                     | Eclairage de courtoisie sur porte avant droite                                                                                                                     | Luz de cortesía de la puerta, frontal derecha                                                                                                                    |
| D 6  | Door Courtesy Light Rear LH                                                      | Eclairage de courtoisie sur porte arrière gauche                                                                                                                   | Luz de cortesía de la puerta, trasera izquierda                                                                                                                  |
| D 7  | Door Courtesy Light Rear RH                                                      | Eclairage de courtoisie sur porte arrière droite                                                                                                                   | Luz de cortesía de la puerta, trasera derecha                                                                                                                    |
| D 8  | Door Courtesy SW Front LH                                                        | Contacteur d'éclairage de courtoisie sur porte avant gauche                                                                                                        | Interruptor de cortesía de la puerta frontal izquierda                                                                                                           |
| D 9  | Door Courtesy SW Front RH                                                        | Contacteur d'éclairage de courtoisie sur porte avant droite                                                                                                        | Interruptor de cortesía de la puerta frontal derecha                                                                                                             |
| D 10 | Door Courtesy SW Rear LH                                                         | Contacteur d'éclairage de courtoisie sur porte arrière gauche                                                                                                      | Interruptor de cortesía de la puerta trasera izquierda                                                                                                           |
| D 11 | Door Courtesy SW Rear RH                                                         | Contacteur d'éclairage de courtoisie sur porte arrière droite                                                                                                      | Interruptor de cortesía de la puerta trasera derecha                                                                                                             |
| D 12 | Door Lock Control SW LH                                                          | Commande de condamnation de porte gauche                                                                                                                           | Interruptor de control de bloqueo de la puerta izquierda                                                                                                         |
| D 14 | Door Lock Motor and Door Lock Detection SW Rear LH                               | Moteur de condamnation de porte et contacteur de détection de condamnation de porte arrière gauche                                                                 | Motor de bloqueo de la puerta e interruptor de detección de bloqueo de la puerta trasera izquierda                                                               |
| D 15 | Door Lock Motor and Door Lock Detection SW Rear RH                               | Moteur de condamnation de porte et contacteur de détection de condamnation de porte arrière droite                                                                 | Motor de bloqueo de la puerta e interruptor de detección de bloqueo de la puerta trasera derecha                                                                 |
| D 16 | Door Lock Motor, Door Key Lock and Unlock SW and Door Lock Detection SW Front LH | Moteur de condamnation de porte, contacteur de condamnation et de libération de porte avec la clé et contacteur de détection de condamnation de porte avant gauche | Motor de bloqueo de la puerta, interruptor de bloqueo y desbloqueo de la llave de la puerta e interruptor de detección de bloqueo de la puerta frontal izquierda |
| D 17 | Door Lock Motor, Door Key Lock and Unlock SW and Door Lock Detection SW Front RH | Moteur de condamnation de porte, contacteur de condamnation et de libération de porte avec la clé et contacteur de détection de condamnation de porte avant droite | Motor de bloqueo de la puerta, interruptor de bloqueo y desbloqueo de la llave de la puerta e interruptor de detección de bloqueo de la puerta frontal derecha   |
| D 18 | Driver Door ECU                                                                  | ECU de porte de conducteur                                                                                                                                         | ECU de la puerta del conductor                                                                                                                                   |
| D 19 | Driver Door ECU                                                                  | ECU de porte de conducteur                                                                                                                                         | ECU de la puerta del conductor                                                                                                                                   |
| D 20 | Driver Door ECU                                                                  | ECU de porte de conducteur                                                                                                                                         | ECU de la puerta del conductor                                                                                                                                   |
| D 21 | Driving Position Memory SW                                                       | Commande de mémoire de position de conduite                                                                                                                        | Interruptor de la memoria de la posición de conducción                                                                                                           |
| F 9  | Front Door Speaker LH                                                            | Haut-parleur de porte avant gauche                                                                                                                                 | Altavoz de la puerta frontal izquierda                                                                                                                           |
| F 10 | Front Door Speaker RH                                                            | Haut-parleur de porte avant droite                                                                                                                                 | Altavoz de la puerta frontal derecha                                                                                                                             |
| F 11 | Front Passenger Door ECU                                                         | ECU de porte de passager avant                                                                                                                                     | ECU de la puerta del pasajero delantero                                                                                                                          |
| F 12 | Front Passenger Door ECU                                                         | ECU de porte de passager avant                                                                                                                                     | ECU de la puerta del pasajero delantero                                                                                                                          |
| F 13 | Front Passenger Door ECU                                                         | ECU de porte de passager avant                                                                                                                                     | ECU de la puerta del pasajero delantero                                                                                                                          |
| F 14 | Fuel Lid Opener Motor                                                            | Moteur de dispositif d'ouverture de trappe de réservoir essence                                                                                                    | Motor del abridor de la tapa de combustible                                                                                                                      |
| F 15 | Fuel Pump and Sender                                                             | Pompe d'alimentation et jauge émettrice de niveau                                                                                                                  | Bomba de combustible y emisor                                                                                                                                    |
| F 16 | Fuel Pump Control ECU                                                            | ECU de commande de pompe d'alimentation                                                                                                                            | ECU de control de la bomba de combustible                                                                                                                        |
| F 17 | Fuel Sender (Sub)                                                                | Jauge émettrice de niveau d'essence (secondaire)                                                                                                                   | Emisor de combustible (secundario)                                                                                                                               |
| H 24 | Height Control Sensor (Rear)                                                     | Capteur de commande de réglage de hauteur (arrière)                                                                                                                | Sensor de control de la altura (trasero)                                                                                                                         |
| H 25 | High Mounted Stop Light (Bulb Type)                                              | Feux stop à implantation haute (type à lampe)                                                                                                                      | Luz de parada de montura alta (tipo de bombilla)                                                                                                                 |
| H 26 | High Mounted Stop Light (LED Type)                                               | Feux stop à implantation haute (type à LED)                                                                                                                        | Luz de parada de montura alta (tipo de LED)                                                                                                                      |
| I 13 | Inner Mirror                                                                     | Rétroviseur intérieur                                                                                                                                              | Espejo interior                                                                                                                                                  |
| I 14 | Interior Light Rear LH                                                           | Plafonnier arrière gauche                                                                                                                                          | Luz interior trasera izquierda                                                                                                                                   |
| I 15 | Interior Light Rear RH                                                           | Plafonnier arrière droit                                                                                                                                           | Luz interior trasera derecha                                                                                                                                     |
| J 43 | Junction Connector                                                               | Bloc raccord de jonction                                                                                                                                           | Conector de enlace                                                                                                                                               |
| J 44 | Junction Connector                                                               | Bloc raccord de jonction                                                                                                                                           | Conector de enlace                                                                                                                                               |
| J 45 | Junction Connector                                                               | Bloc raccord de jonction                                                                                                                                           | Conector de enlace                                                                                                                                               |

English

Français

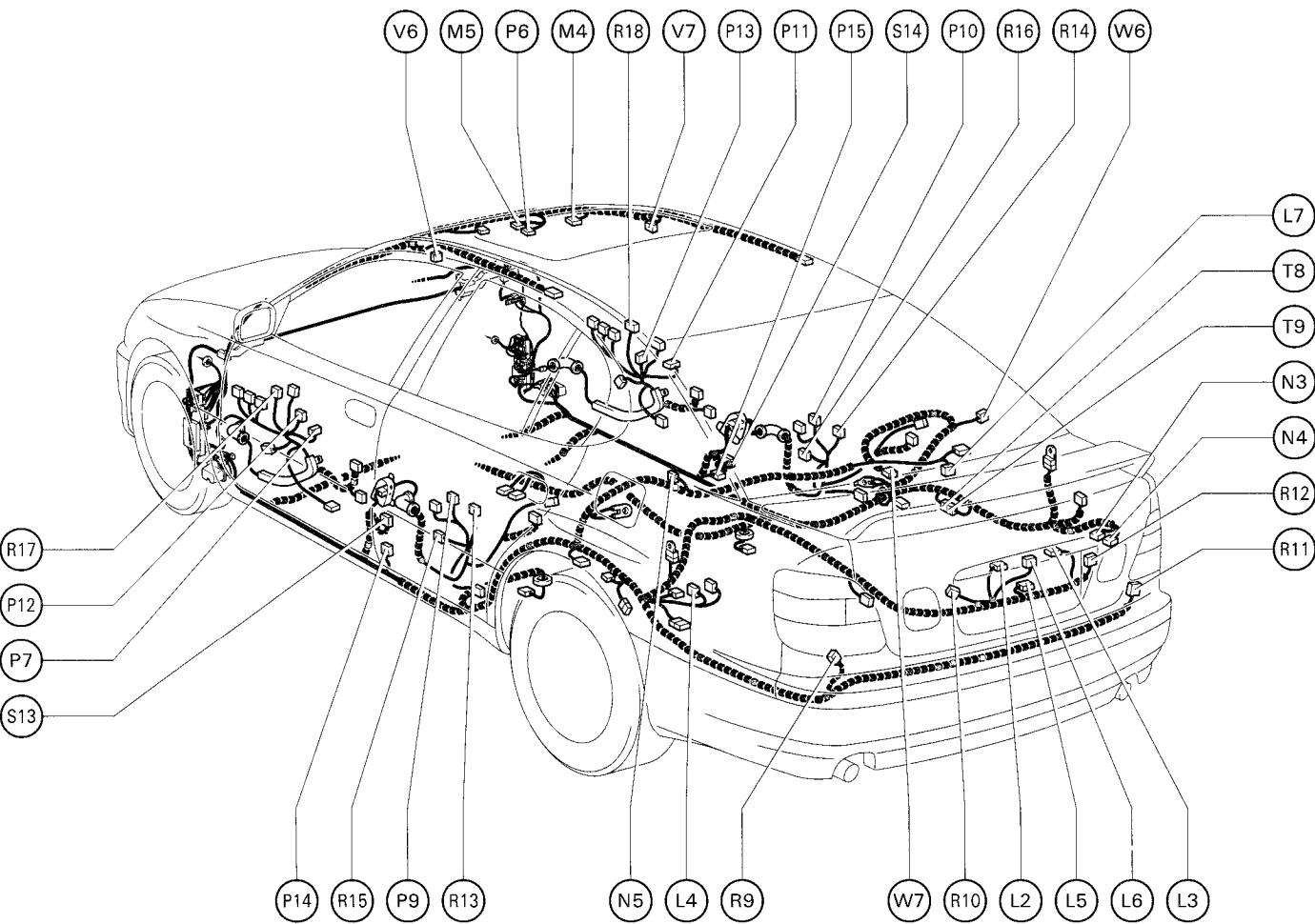
Español

G ELECTRICAL WIRING ROUTING

Position of Parts in Body

[RHD : Body 2]

English



## Position of Parts in Body

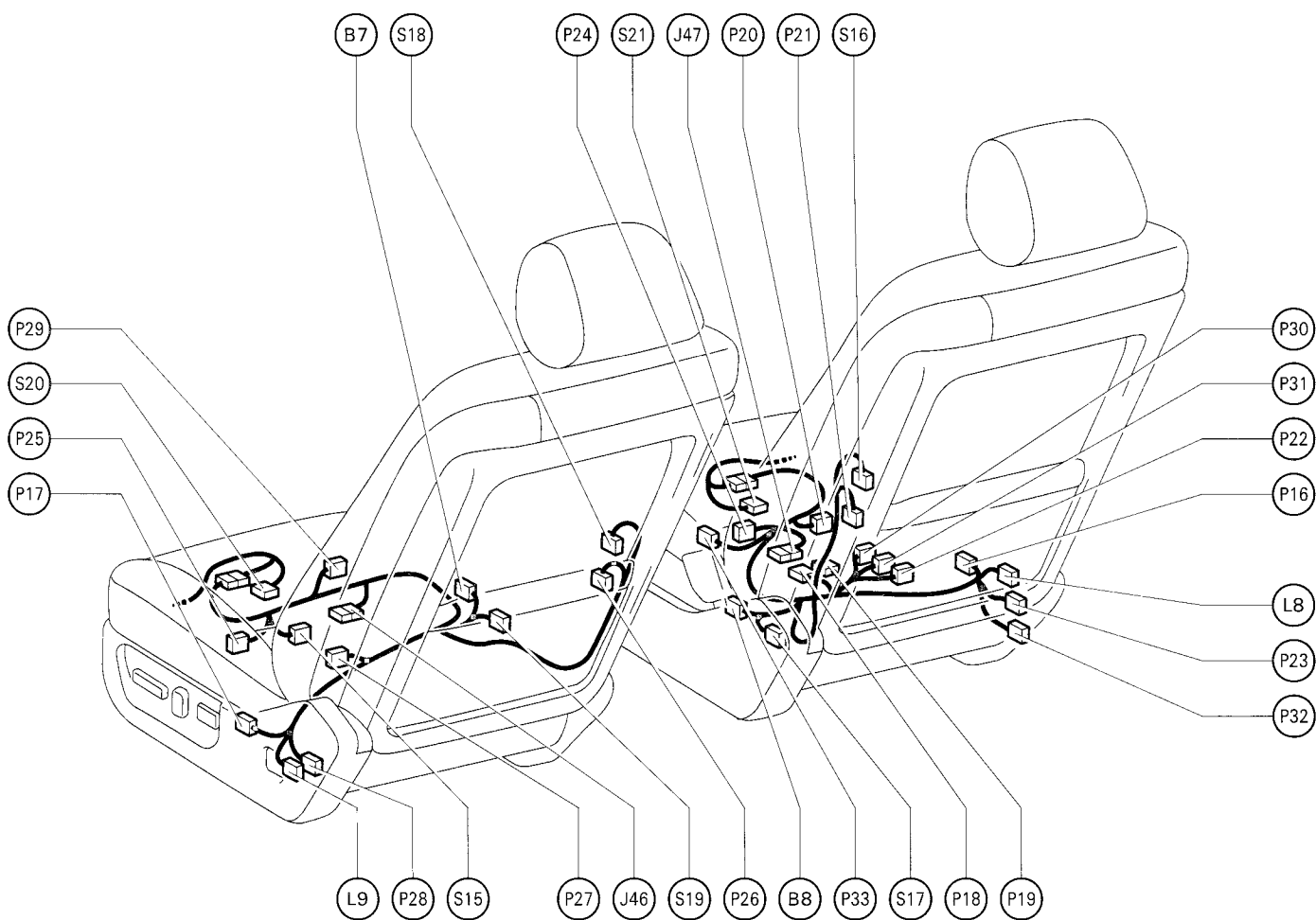
| Code | English                                               | Français                                                                                                          | Español                                                                      |
|------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| L 2  | License Plate Light LH                                | <i>Eclairage de plaque minéralogique gauche</i>                                                                   | <i>Luz de la matrícula izquierda</i>                                         |
| L 3  | License Plate Light RH                                | <i>Eclairage de plaque minéralogique droit</i>                                                                    | <i>Luz de la matrícula derecha</i>                                           |
| L 4  | Light Failure Sensor                                  | <i>Capteur de panne de dispositif d'éclairage</i>                                                                 | <i>Sensor de fallo de las luces</i>                                          |
| L 5  | Luggage Compartment Door Courtesy SW and Opener Motor | <i>Contacteur d'éclairage de courtoisie sur porte de compartiment bagages et moteur de dispositif d'ouverture</i> | <i>Interruptor de cortesía de la puerta del portaequipajes y abridor</i>     |
| L 6  | Luggage Compartment Door Key Unlock SW                | <i>Contacteur de libération par la clé porte de compartiment bagages</i>                                          | <i>Interruptor de desbloqueo de la llave de la puerta del portaequipajes</i> |
| L 7  | Luggage Compartment Light                             | <i>Eclairage de compartiment à bagages</i>                                                                        | <i>Luz del portaequipajes</i>                                                |
| M 4  | Moon Roof Control ECU                                 | <i>ECU de commande de toit ouvrant</i>                                                                            | <i>ECU de control del techo lunar</i>                                        |
| M 5  | Moon Roof Control SW                                  | <i>Commande de toit ouvrant</i>                                                                                   | <i>Interruptor de control del techo lunar</i>                                |
| N 3  | Navigation ECU                                        | <i>ECU de navigation</i>                                                                                          | <i>ECU de navegación</i>                                                     |
| N 4  | Navigation ECU                                        | <i>ECU de navigation</i>                                                                                          | <i>ECU de navegación</i>                                                     |
| N 5  | Noise Filter (Rear Window Defogger)                   | <i>Filtre antiparasites (désembueur de lunette arrière)</i>                                                       | <i>Filtro de ruido (desempañador de la ventanilla trasera)</i>               |
| P 6  | Personal Light                                        | <i>Projecteur individuel</i>                                                                                      | <i>Luz personal</i>                                                          |
| P 7  | Power Window Control SW Front LH                      | <i>Commande de lève-glace électrique avant gauche</i>                                                             | <i>Interruptor de control de la ventanilla automática frontal izquierda</i>  |
| P 9  | Power Window Control SW Rear LH                       | <i>Commande de lève-glace électrique arrière gauche</i>                                                           | <i>Interruptor de control de la ventanilla automática trasera izquierda</i>  |
| P 10 | Power Window Control SW Rear RH                       | <i>Commande de lève-glace électrique arrière droit</i>                                                            | <i>Interruptor de control de la ventanilla automática trasera derecha</i>    |
| P 11 | Power Window Master SW                                | <i>Commande générale de lève-glace électrique</i>                                                                 | <i>Interruptor principal de la ventanilla automática</i>                     |
| P 12 | Power Window Motor Front LH                           | <i>Moteur de lève-glace électrique avant gauche</i>                                                               | <i>Motor de la ventanilla automática frontal izquierda</i>                   |
| P 13 | Power Window Motor Front RH                           | <i>Moteur de lève-glace électrique avant droit</i>                                                                | <i>Motor de la ventanilla automática frontal derecha</i>                     |
| P 14 | Pretensioner LH                                       | <i>Prétendeur gauche</i>                                                                                          | <i>Pretensor izquierdo</i>                                                   |
| P 15 | Pretensioner RH                                       | <i>Prétendeur droit</i>                                                                                           | <i>Pretensor derecho</i>                                                     |
| R 9  | Rear Combination Light LH                             | <i>Eclairage arrière combiné gauche</i>                                                                           | <i>Luz de combinación trasera izquierda</i>                                  |
| R 10 | Rear Combination Light LH                             | <i>Eclairage arrière combiné gauche</i>                                                                           | <i>Luz de combinación trasera izquierda</i>                                  |
| R 11 | Rear Combination Light RH                             | <i>Eclairage arrière combiné droit</i>                                                                            | <i>Luz de combinación trasera derecha</i>                                    |
| R 12 | Rear Combination Light RH                             | <i>Eclairage arrière combiné droit</i>                                                                            | <i>Luz de combinación trasera derecha</i>                                    |
| R 13 | Rear Door LH ECU                                      | <i>ECU de porte arrière gauche</i>                                                                                | <i>ECU de la puerta trasera izquierda</i>                                    |
| R 14 | Rear Door RH ECU                                      | <i>ECU de porte arrière droite</i>                                                                                | <i>ECU de la puerta trasera derecha</i>                                      |
| R 15 | Rear Door Speaker LH                                  | <i>Haut-parleur de porte arrière gauche</i>                                                                       | <i>Altavoz de la puerta trasera izquierda</i>                                |
| R 16 | Rear Door Speaker RH                                  | <i>Haut-parleur de porte arrière droit</i>                                                                        | <i>Altavoz de la puerta trasera derecha</i>                                  |
| R 17 | Remote Control Mirror LH                              | <i>Rétroviseur à commande électrique gauche</i>                                                                   | <i>Espejo retrovisor de control remoto izquierdo</i>                         |
| R 18 | Remote Control Mirror RH                              | <i>Rétroviseur à commande électrique droit</i>                                                                    | <i>Espejo retrovisor de control remoto derecho</i>                           |
| S 13 | Side Airbag Sensor LH                                 | <i>Capteur de sac gonflable latéral gauche</i>                                                                    | <i>Sensor del colchón de aire lateral izquierdo</i>                          |
| S 14 | Side Airbag Sensor RH                                 | <i>Capteur de sac gonflable latéral droit</i>                                                                     | <i>Sensor del colchón de aire lateral derecho</i>                            |
| T 8  | Telephone Transceiver and Speaker Relay               | <i>Relais de haut-parleur et d'émetteur-récepteur de téléphone</i>                                                | <i>Transceptor telefónico y relé del altavoz</i>                             |
| T 9  | Telephone Transceiver and Speaker Relay               | <i>Relais de haut-parleur et d'émetteur-récepteur de téléphone</i>                                                | <i>Transceptor telefónico y relé del altavoz</i>                             |
| V 6  | Vanity Light LH                                       | <i>Eclairage gauche de miroir de maquillage</i>                                                                   | <i>Luz del espejo interior izquierda</i>                                     |
| V 7  | Vanity Light RH                                       | <i>Eclairage droit de miroir de maquillage</i>                                                                    | <i>Luz del espejo interior derecha</i>                                       |
| W 6  | Wireless Door Lock ECU                                | <i>ECU de condamnation de porte à commande radio</i>                                                              | <i>ECU de bloqueo de la puerta inalámbrica</i>                               |
| W 7  | Woofer (Speaker)                                      | <i>Woofer (haut-parleur)</i>                                                                                      | <i>Altavoz de graves (altavoz)</i>                                           |



## G ELECTRICAL WIRING ROUTING

### Position of Parts in Seat

[RHD]



## Position of Parts in Seat

| Code | English                                                           | Français                                                                                                         | Español                                                                                          |
|------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| B 7  | Buckle SW LH                                                      | Contacteur de boucle gauche                                                                                      | Interruptor de la hebilla izquierda                                                              |
| B 8  | Buckle SW RH                                                      | Contacteur de boucle droite                                                                                      | Interruptor de la hebilla derecha                                                                |
| J 46 | Junction Connector                                                | Bloc raccord de jonction                                                                                         | Conector de enlace                                                                               |
| J 47 | Junction Connector                                                | Bloc raccord de jonction                                                                                         | Conector de enlace                                                                               |
| L 8  | Lumbar Support Control SW (Driver's Seat)                         | Commutateur de réglage de support lombaire (siège de conducteur)                                                 | Interruptor de control del soporte lumbar (asiento del conductor)                                |
| L 9  | Lumbar Support Control SW (Front Passenger's Seat)                | Commutateur de réglage de support lombaire (siège de passager avant)                                             | Interruptor de control del soporte lumbar (asiento del pasajero delantero)                       |
| P 16 | Power Seat Control SW (Driver's Seat)                             | Commande de siège à commande électrique (siège de conducteur)                                                    | Interruptor de control del asiento eléctrico (asiento del conductor)                             |
| P 17 | Power Seat Control SW (Front Passenger's Seat)                    | Commande de siège à commande électrique (siège de passager avant)                                                | Interruptor de control del asiento eléctrico (asiento del pasajero delantero)                    |
| P 18 | Power Seat ECU                                                    | ECU de siège à commande électrique                                                                               | ECU del asiento eléctrico                                                                        |
| P 19 | Power Seat ECU                                                    | ECU de siège à commande électrique                                                                               | ECU del asiento eléctrico                                                                        |
| P 20 | Power Seat Motor (Driver's Seat Front Vertical Control)           | Moteur de siège à commande électrique (commande de réglage vertical avant de siège de conducteur)                | Motor del asiento eléctrico (control vertical frontal del asiento del conductor)                 |
| P 21 | Power Seat Motor (Driver's Seat Lumbar Support Control)           | Moteur de siège à commande électrique (commande de réglage de support lombaire de siège de conducteur)           | Motor del asiento eléctrico (control del soporte lumbar del asiento del conductor)               |
| P 22 | Power Seat Motor (Driver's Seat Rear Vertical Control)            | Moteur de siège à commande électrique (commande de réglage vertical arrière de siège de conducteur)              | Motor del asiento eléctrico (control vertical trasero del asiento del conductor)                 |
| P 23 | Power Seat Motor (Driver's Seat Reclining Control)                | Moteur de siège à commande électrique (commande de réglage d'inclinaison de siège de conducteur)                 | Motor del asiento eléctrico (control de inclinación del asiento del conductor)                   |
| P 24 | Power Seat Motor (Driver's Seat Slide Control)                    | Moteur de siège à commande électrique (commande de translation de siège de conducteur)                           | Motor del asiento eléctrico (control deslizante del asiento del conductor)                       |
| P 25 | Power Seat Motor (Front Passenger's Seat Front Vertical Control)  | Moteur de siège à commande électrique (commande de réglage vertical arrière de siège de passager avant)          | Motor del asiento eléctrico (control vertical trasero del asiento del pasajero delantero)        |
| P 26 | Power Seat Motor (Front Passenger's Seat Lumbar Support Control)  | Moteur de siège à commande électrique (commande de réglage de support lombaire de siège de passager avant)       | Motor del asiento eléctrico (control del soporte lumbar del asiento del pasajero delantero)      |
| P 27 | Power Seat Motor (Front Passenger's Seat Rear Vertical Control)   | Moteur de siège à commande électrique (commande de réglage vertical de siège de passager avant)                  | Motor del asiento eléctrico (control vertical trasero del asiento del pasajero delantero)        |
| P 28 | Power Seat Motor (Front Passenger's Seat Reclining Control)       | Moteur de siège à commande électrique (commande de réglage d'inclinaison de siège de passager avant)             | Motor del asiento eléctrico (control de inclinación del asiento del pasajero delantero)          |
| P 29 | Power Seat Motor (Front Passenger's Seat Slide Control)           | Moteur de siège à commande électrique (commande de translation de siège de passager avant)                       | Motor del asiento eléctrico (control deslizante del asiento del pasajero delantero)              |
| P 30 | Power Seat Position Sensor (Driver's Seat Front Vertical Control) | Capteur de position de siège à commande électrique (commande de réglage vertical avant de siège de conducteur)   | Sensor de la posición del asiento eléctrico (control vertical frontal del asiento del conductor) |
| P 31 | Power Seat Position Sensor (Driver's Seat Rear Vertical Control)  | Capteur de position de siège à commande électrique (commande de réglage vertical arrière de siège de conducteur) | Sensor de la posición del asiento eléctrico (control vertical trasero del asiento del conductor) |
| P 32 | Power Seat Position Sensor (Driver's Seat Reclining Control)      | Capteur de position de siège à commande électrique (commande de réglage d'inclinaison de siège de conducteur)    | Sensor de la posición del asiento eléctrico (control de inclinación del asiento del conductor)   |
| P 33 | Power Seat Position Sensor (Driver's Seat Slide Control)          | Capteur de position de siège à commande électrique (commande de translation de siège de conducteur)              | Sensor de la posición del asiento eléctrico (control deslizante del asiento del conductor)       |
| S 15 | Seat Belt Warning Occupant Detection Sensor                       | Capteur de détection d'occupant de rappel de ceinture de sécurité                                                | Sección de detección de ocupante con aviso de cinturón de seguridad                              |
| S 16 | Seat Heater (Driver's Seat Back)                                  | Chauffage de siège (dossier de siège de conducteur)                                                              | Calefactor del asiento (respaldo del asiento del conductor)                                      |
| S 17 | Seat Heater (Driver's Seat Cushion)                               | Chauffage de siège (coussin de siège de conducteur)                                                              | Calefactor del asiento (almohadilla del asiento del conductor)                                   |
| S 18 | Seat Heater (Front Passenger's Seat Back)                         | Chauffage de siège (de dossier de siège de passager avant)                                                       | Calefactor del asiento (respaldo del asiento del pasajero delantero)                             |
| S 19 | Seat Heater (Front Passenger's Seat Cushion)                      | Chauffage de siège (de coussin de siège de passager avant)                                                       | Calefactor del asiento (almohadilla del asiento del pasajero delantero)                          |
| S 20 | Side Airbag Squib LH                                              | Charge explosive de sac gonflable latéral gauche                                                                 | Detonador del colchón de aire lateral izquierdo                                                  |
| S 21 | Side Airbag Squib RH                                              | Charge explosive de sac gonflable latéral droit                                                                  | Detonador del colchón de aire lateral derecho                                                    |

English

Français

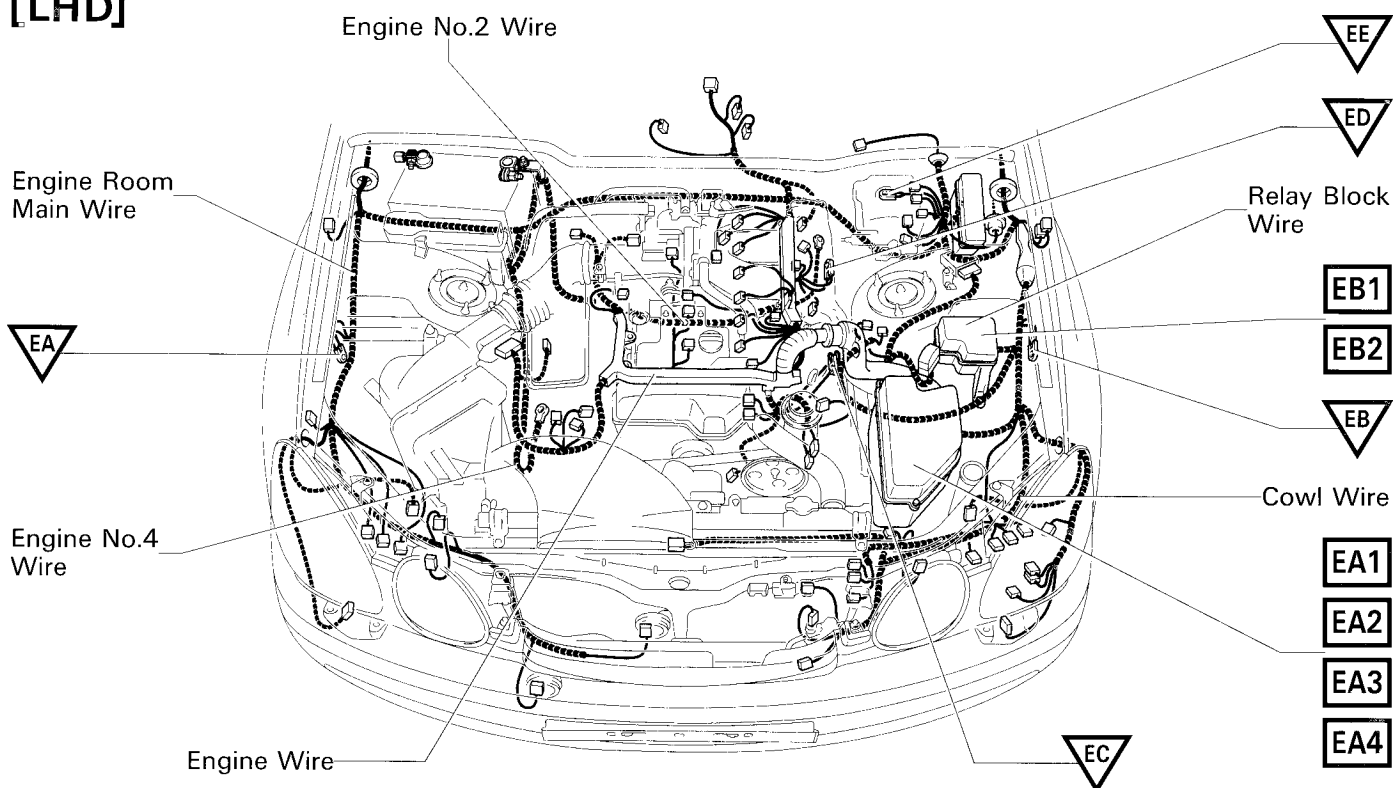
Español

## G ELECTRICAL WIRING ROUTING

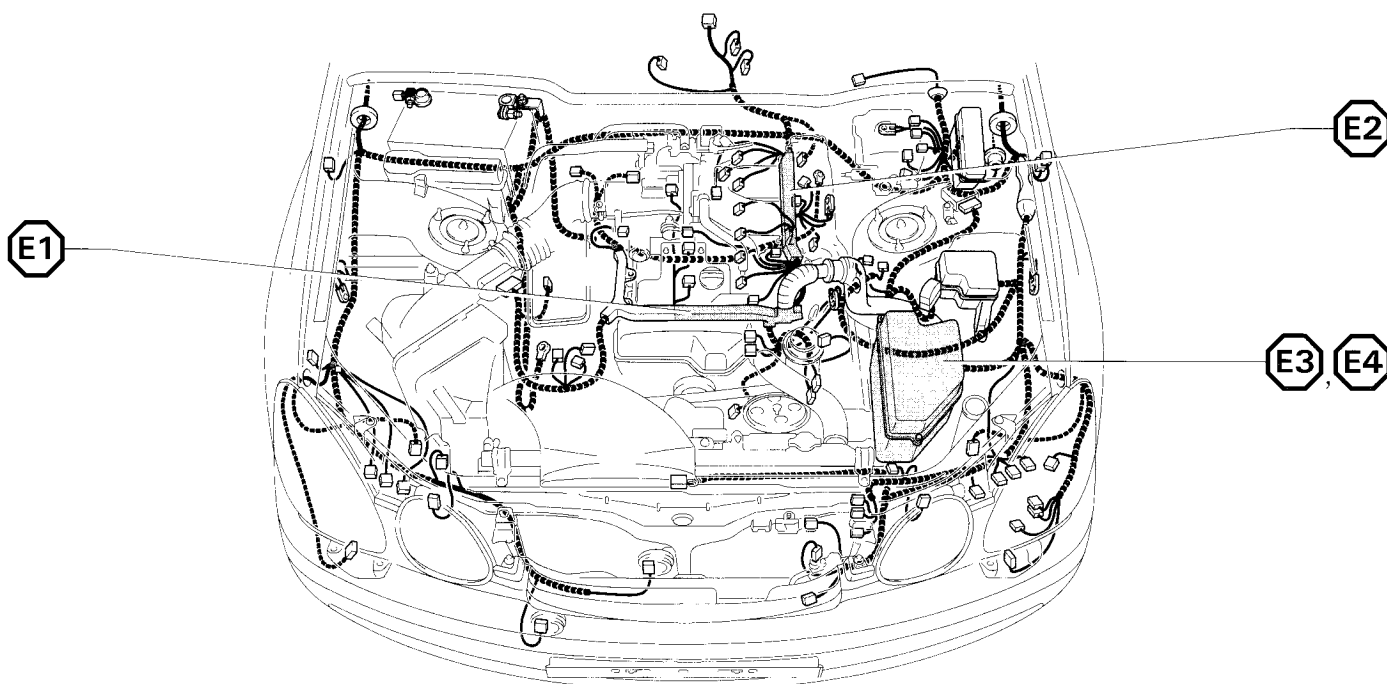
□ : Location of Connector Joining Wire Harness and Wire Harness

▽ : Location of Ground Points

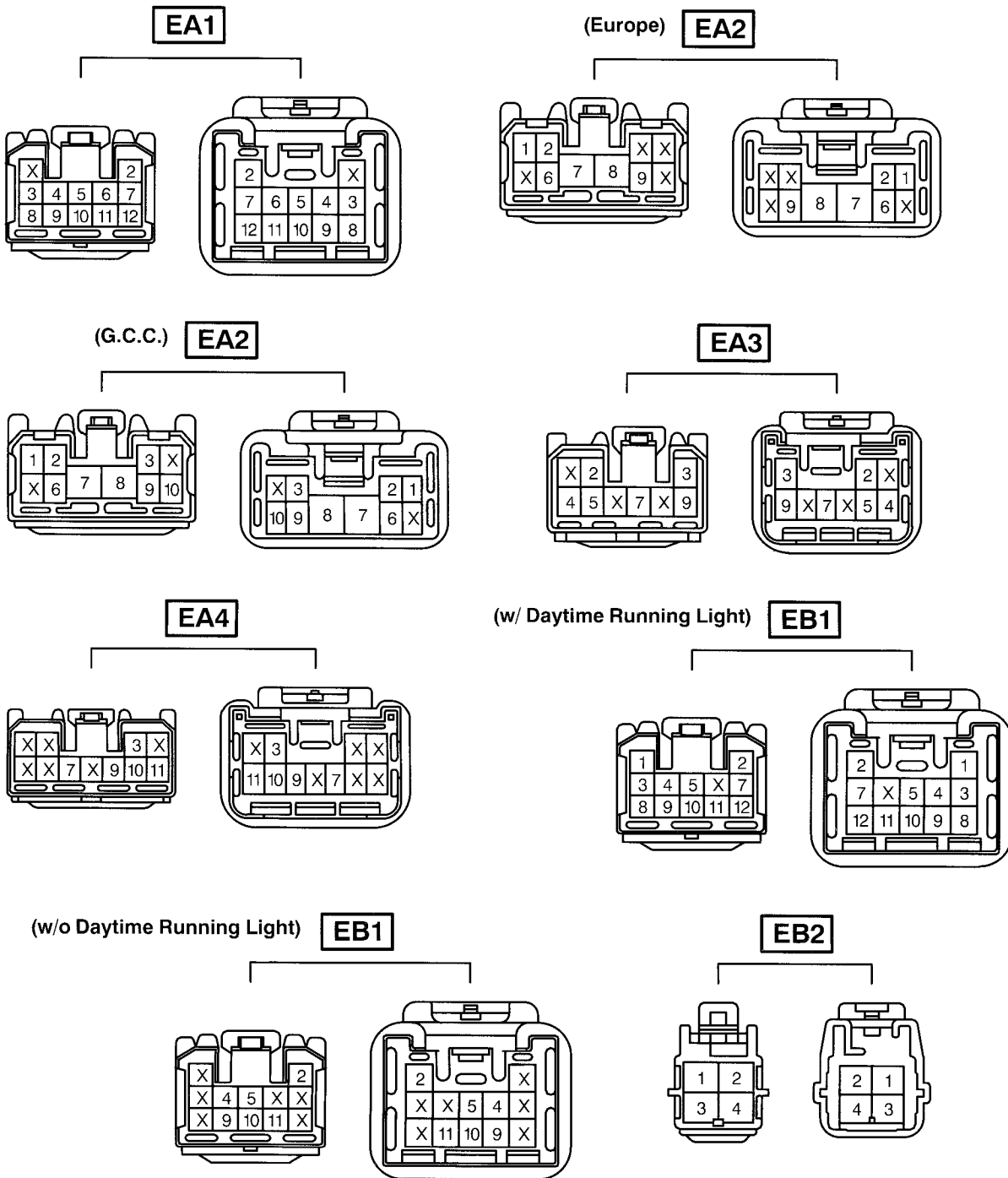
[LHD]



○ : Location of Splice Points



## Connector Joining Wire Harness and Wire Harness

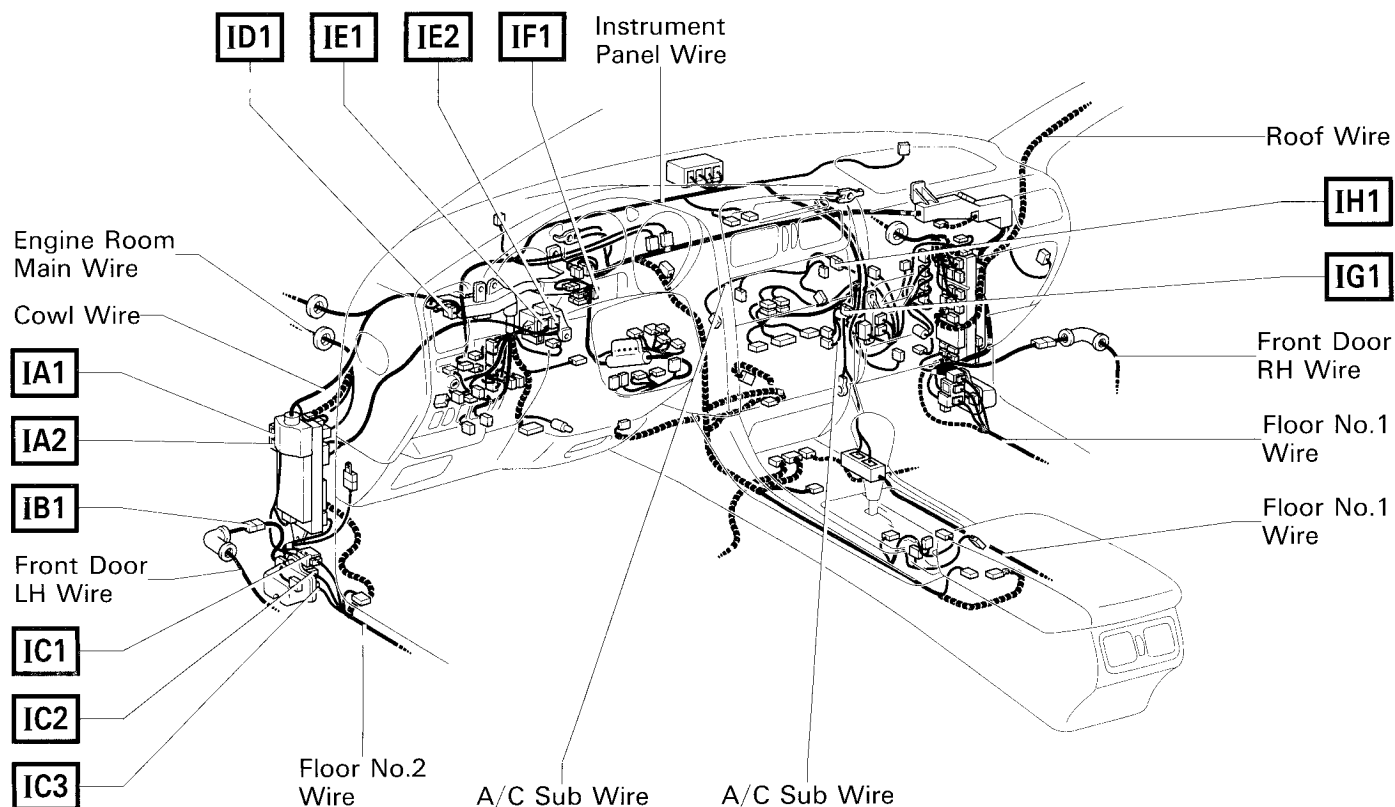


| Code | Joining Wire Harness and Wire Harness (Connector Location)          |
|------|---------------------------------------------------------------------|
| EA1  | Engine Wire and Cowl Wire (Inside of the ECU Box)                   |
| EA2  |                                                                     |
| EA3  |                                                                     |
| EA4  |                                                                     |
| EB1  | Cowl Wire and Relay Block Wire (Inside of the Engine Room No.3 R/B) |
| EB2  |                                                                     |

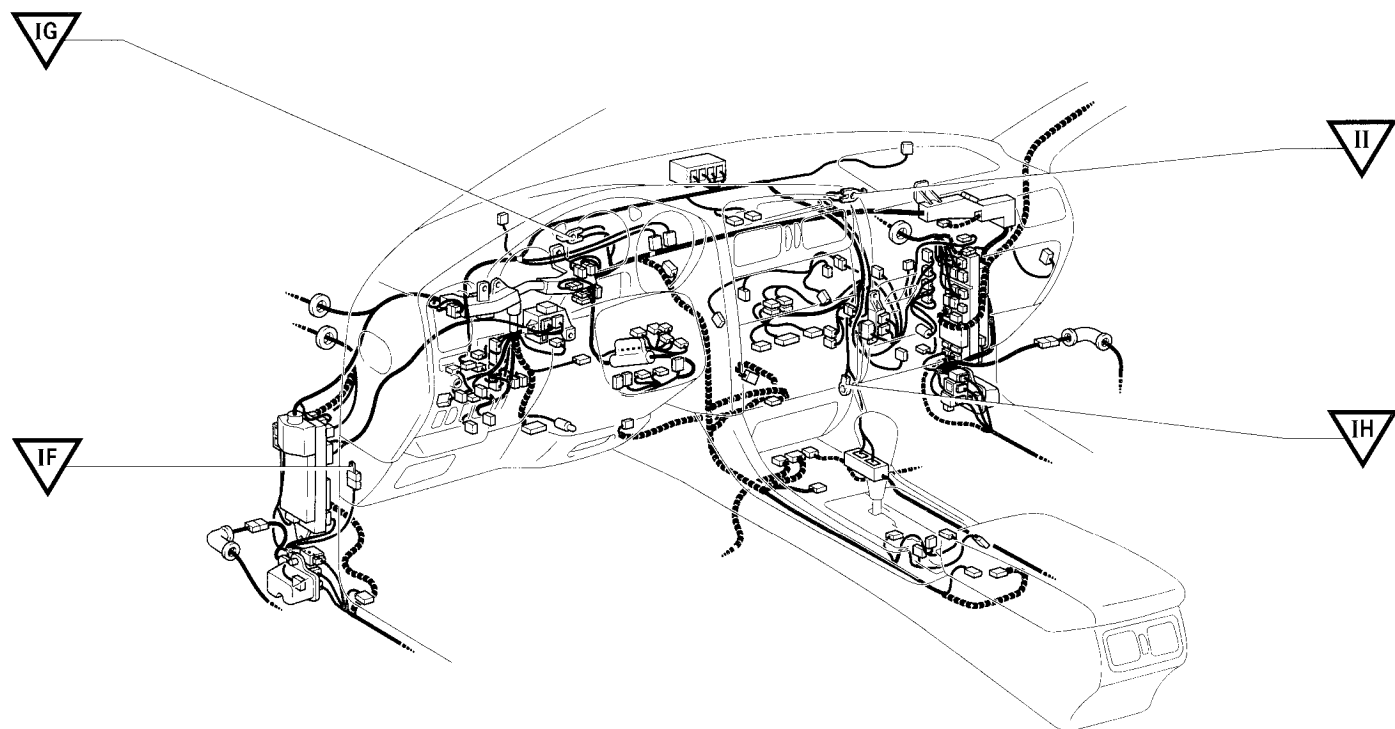
## G ELECTRICAL WIRING ROUTING

□: Location of Connector Joining Wire Harness and Wire Harness

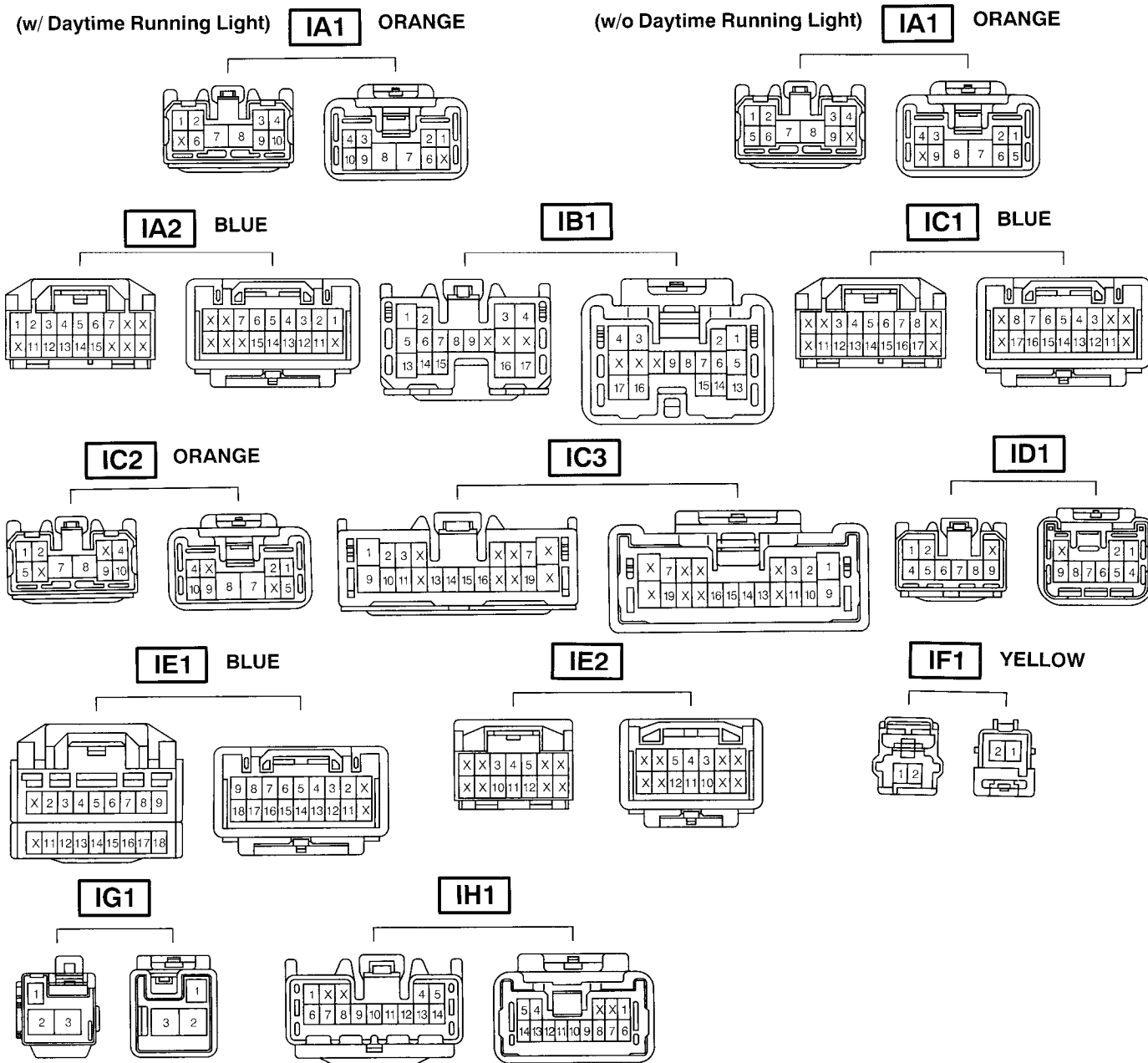
[LHD]



▽: Location of Ground Points



## Connector Joining Wire Harness and Wire Harness

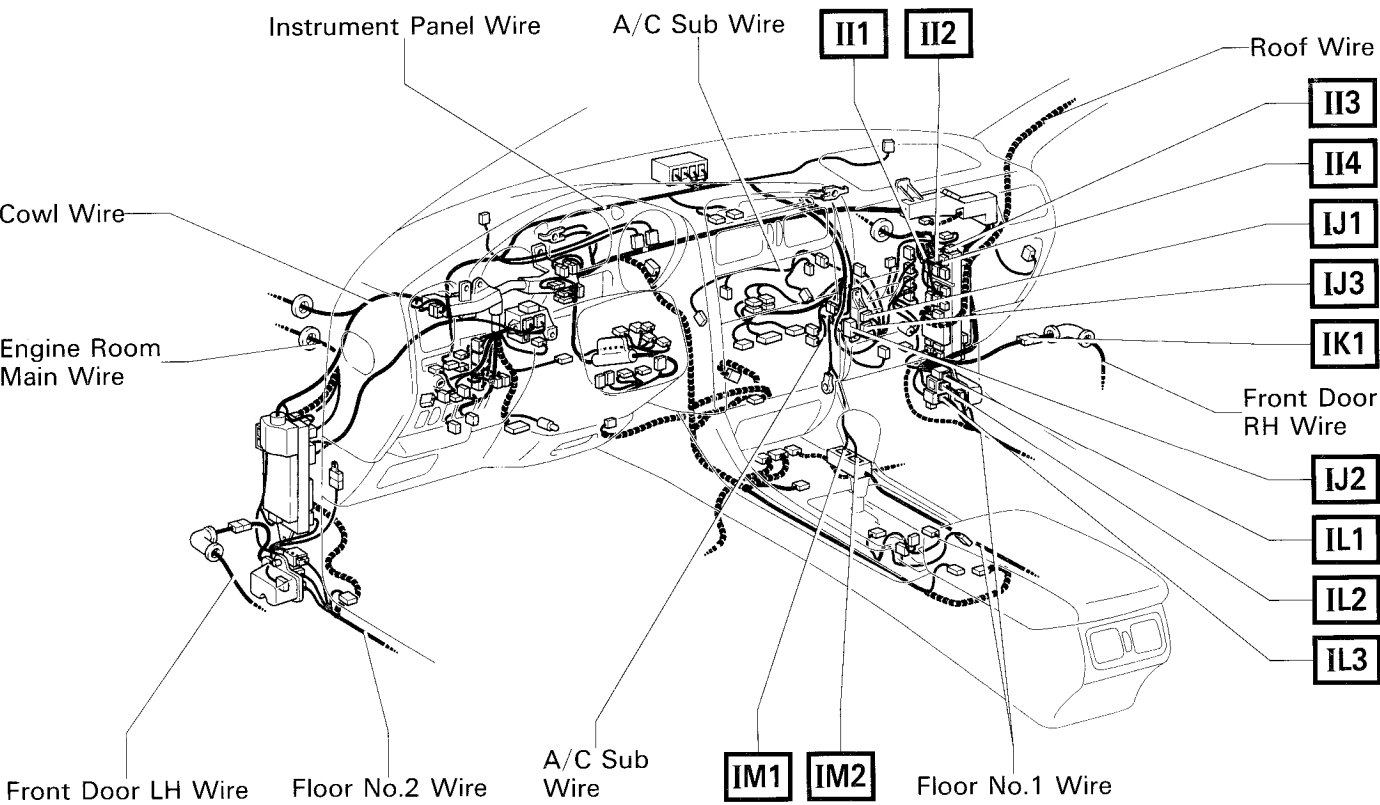


| Code | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|---------------------------------------------------------------------------|
| IA1  | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)            |
| IA2  |                                                                           |
| IB1  | Front Door LH Wire and Cowl Wire (Left Kick Panel)                        |
| IC1  |                                                                           |
| IC2  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                           |
| IC3  |                                                                           |
| ID1  | Cowl Wire and Cowl Wire (Left Side of the Instrument Panel Reinforcement) |
| IE1  | Instrument Panel Wire and Cowl Wire (Left Side of the Steering Column)    |
| IE2  |                                                                           |
| IF1  | Cowl Wire and Cowl Wire (Right Side of the Steering Column)               |
| IG1  | Cowl Wire and A/C Sub Wire (Left Side of the Blower Unit)                 |
| IH1  | Instrument Panel Wire and A/C Sub Wire (Left Side of the Blower Unit)     |

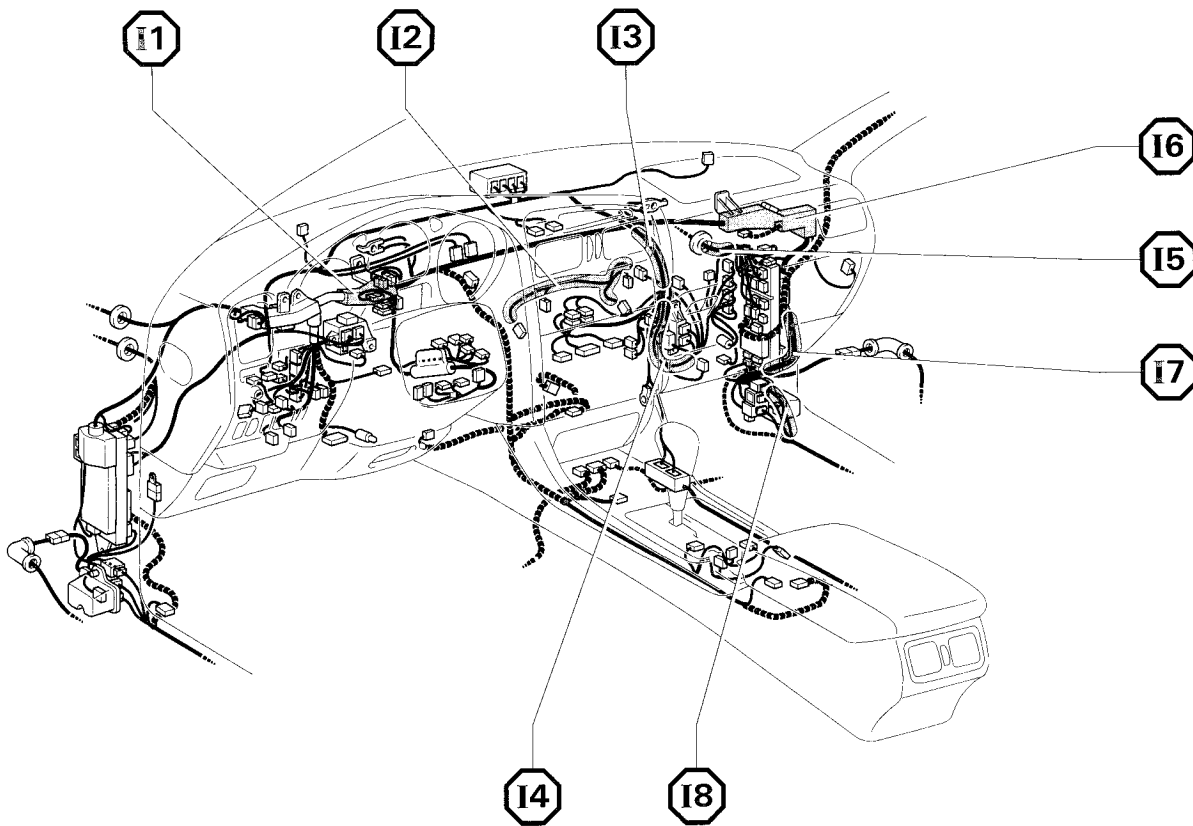
G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness

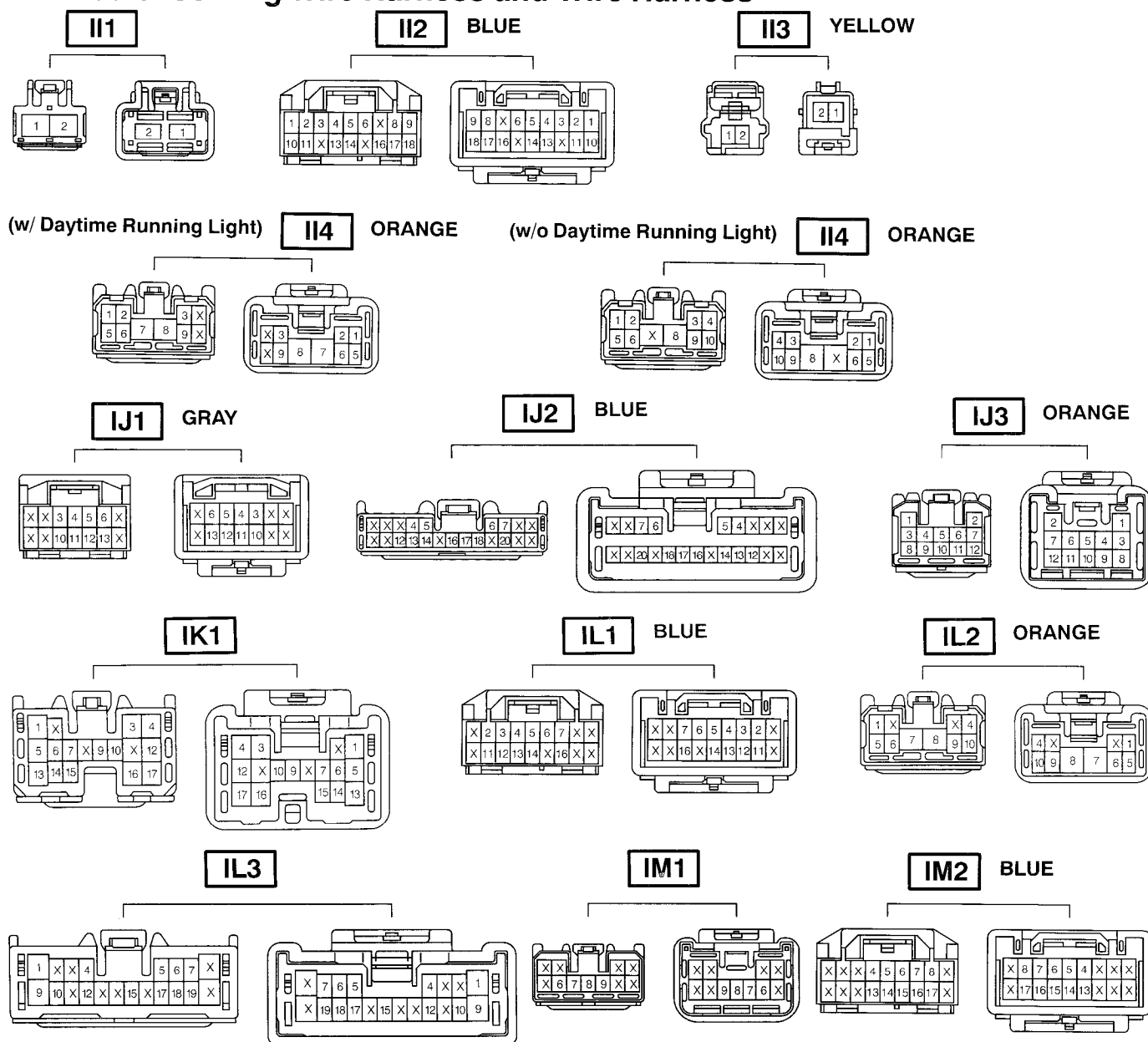
[LHD]



○ : Location of Splice Points



## Connector Joining Wire Harness and Wire Harness



| Code | Joining Wire Harness and Wire Harness (Connector Location)                   |
|------|------------------------------------------------------------------------------|
| II1  | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)            |
| II2  |                                                                              |
| II3  |                                                                              |
| II4  |                                                                              |
| IJ1  | Instrument Panel Wire and Cowl Wire (Left Side of the Blower Unit)           |
| IJ2  |                                                                              |
| IJ3  |                                                                              |
| IK1  | Front Door RH Wire and Cowl Wire (Right Kick Panel)                          |
| IL1  | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                             |
| IL2  |                                                                              |
| IL3  |                                                                              |
| IM1  | Instrument Panel Wire and Floor No.1 Wire (Front RH Side of the Shift Lever) |
| IM2  |                                                                              |

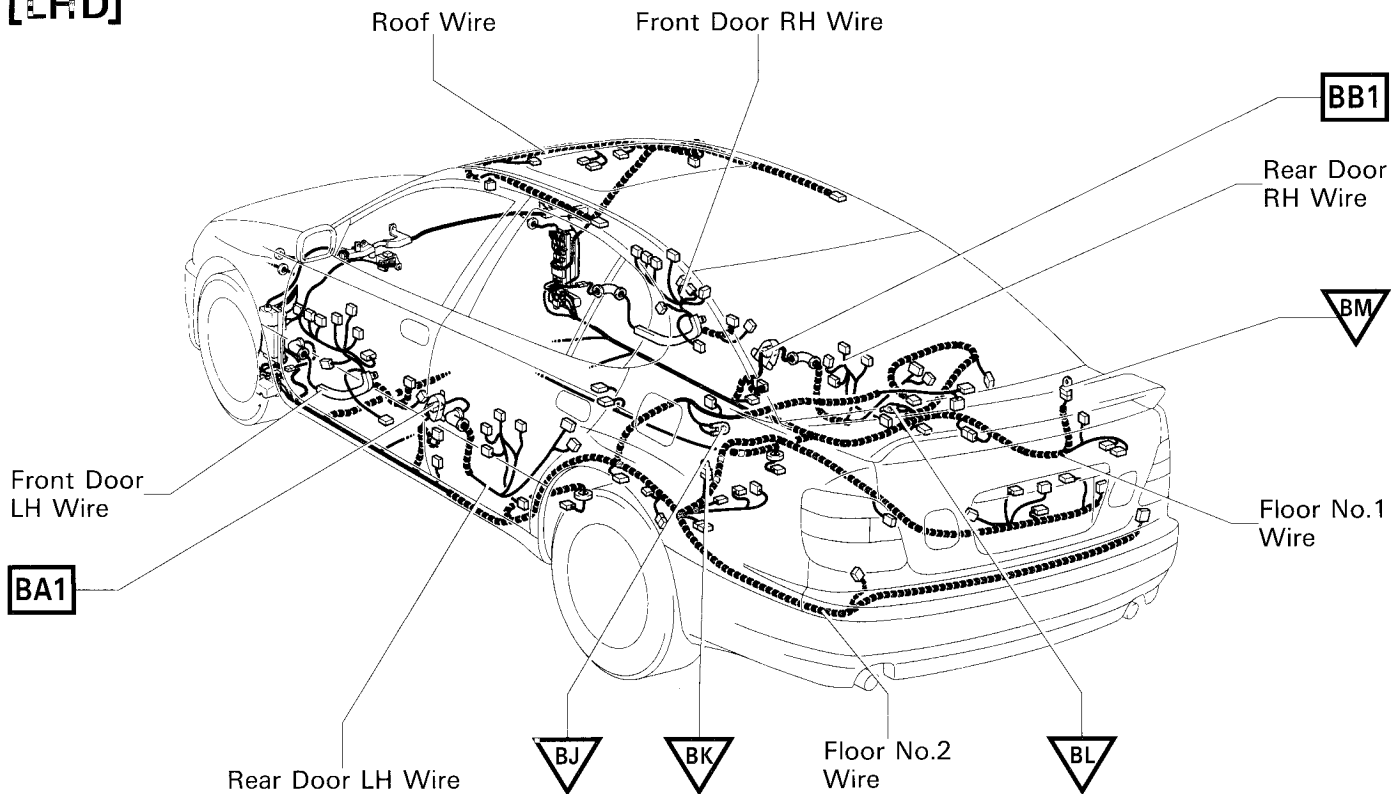


## G ELECTRICAL WIRING ROUTING

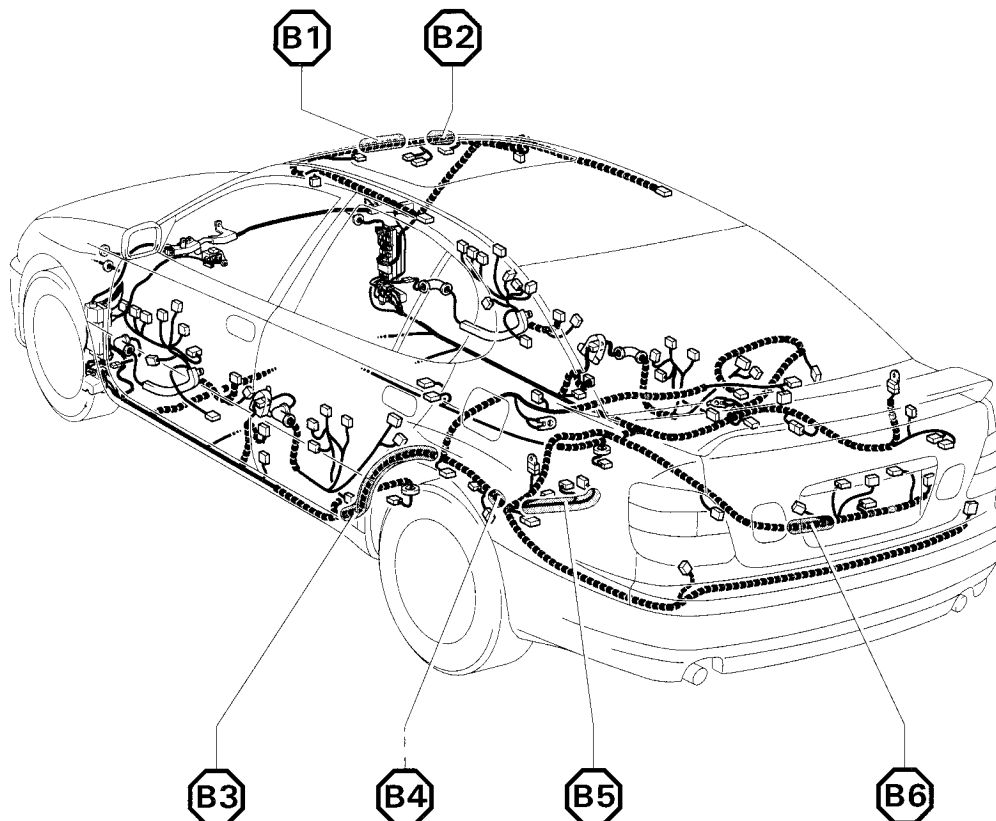
□ : Location of Connector Joining Wire Harness and Wire Harness

▽ : Location of Ground Points

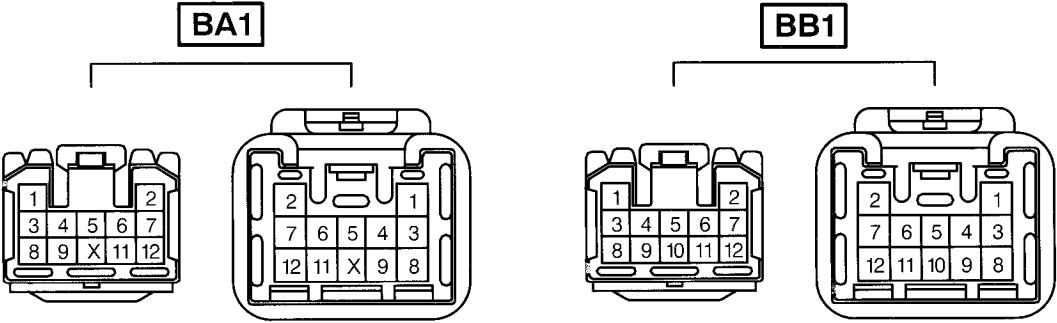
[LHD]



○ : Location of Splice Points



Connector Joining Wire Harness and Wire Harness



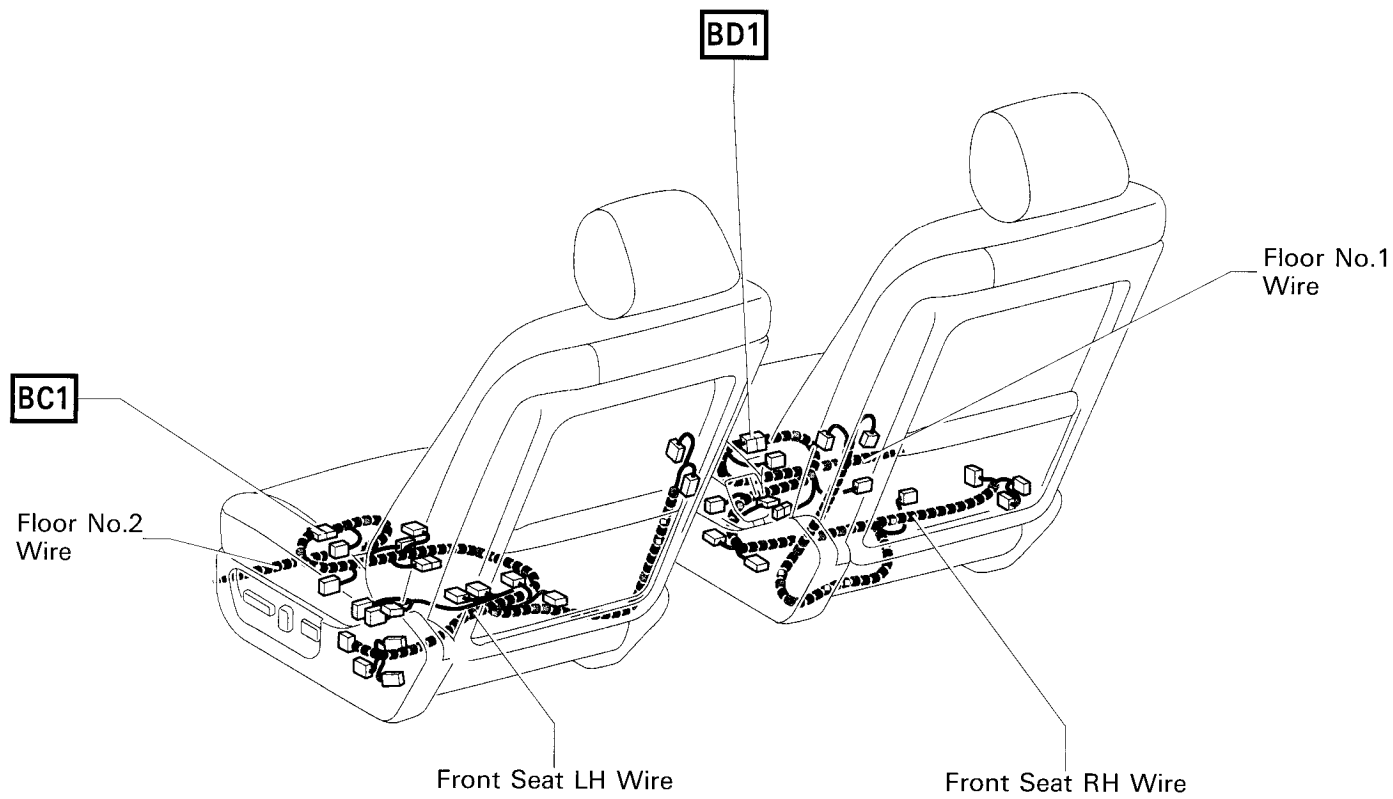
English

|      |                                                                    |
|------|--------------------------------------------------------------------|
| Code | Joining Wire Harness and Wire Harness (Connector Location)         |
| BA1  | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH) |
| BB1  | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH) |

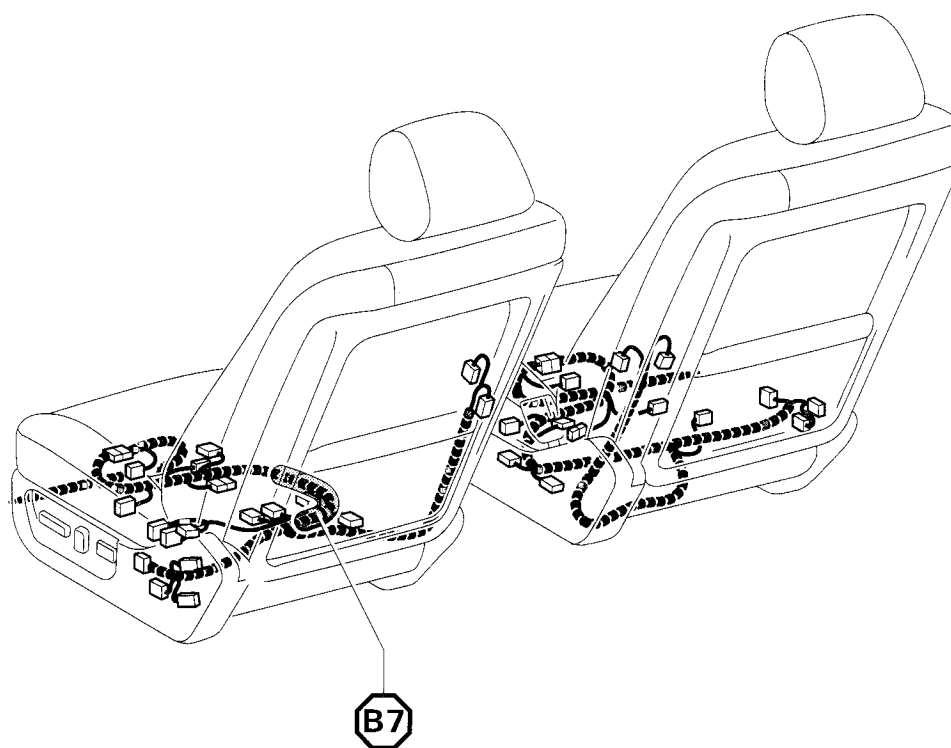
## G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness

[LHD]

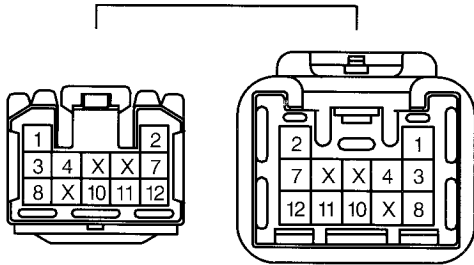


○ : Location of Splice Points

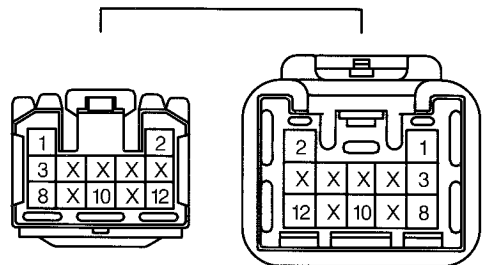


# Connector Joining Wire Harness and Wire Harness

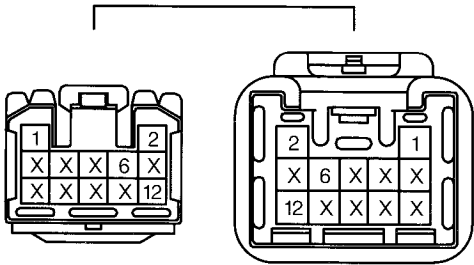
(w/ Driving Position Memory) **BC1**



(w/o Driving Position Memory) **BC1**



**BD1**



English

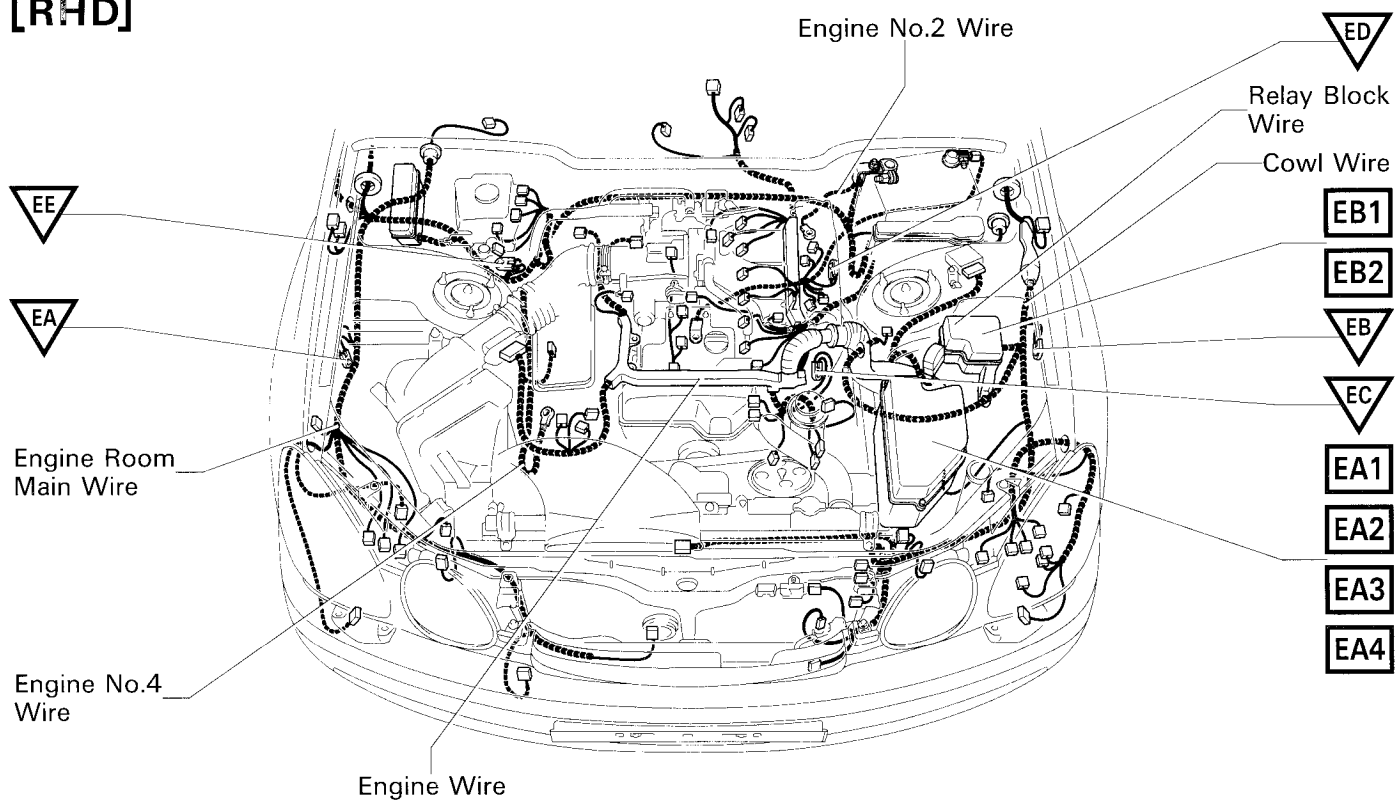
| Code | Joining Wire Harness and Wire Harness (Connector Location)                |
|------|---------------------------------------------------------------------------|
| BC1  | Floor No.2 Wire and Front Seat LH Wire (Under the Driver's Seat)          |
| BD1  | Floor No.1 Wire and Front Seat RH Wire (Under the Front Passenger's Seat) |

## G ELECTRICAL WIRING ROUTING

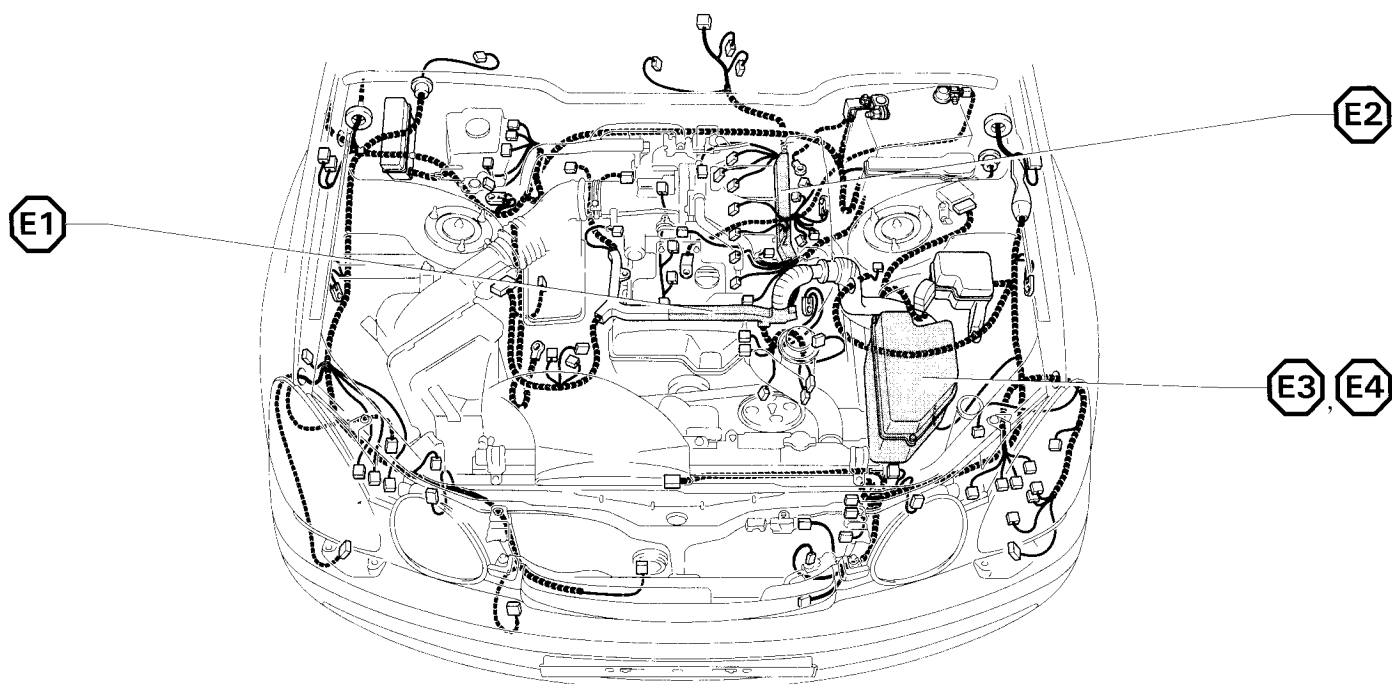
□ : Location of Connector Joining Wire Harness and Wire Harness

▽ : Location of Ground Points

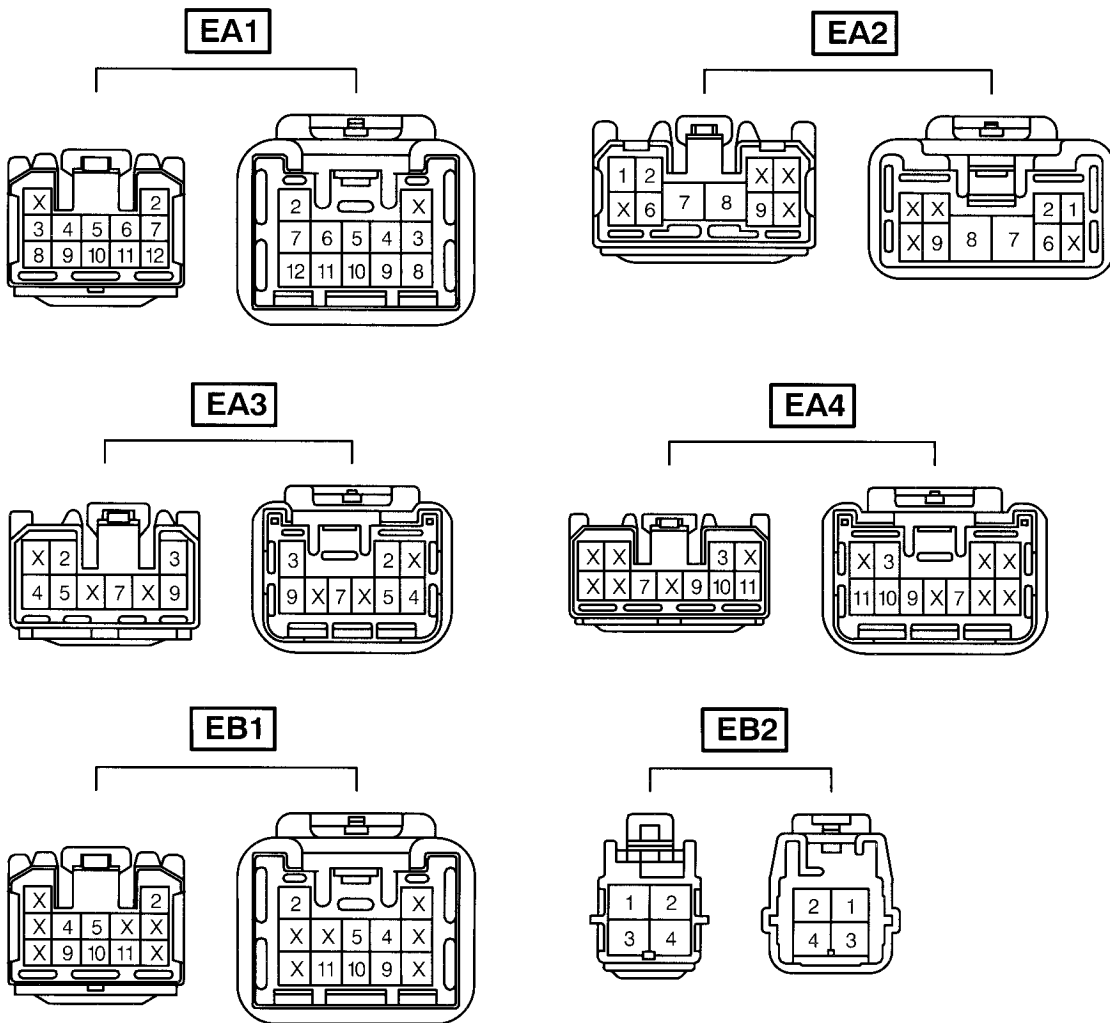
[RHD]



○ : Location of Splice Points



## Connector Joining Wire Harness and Wire Harness

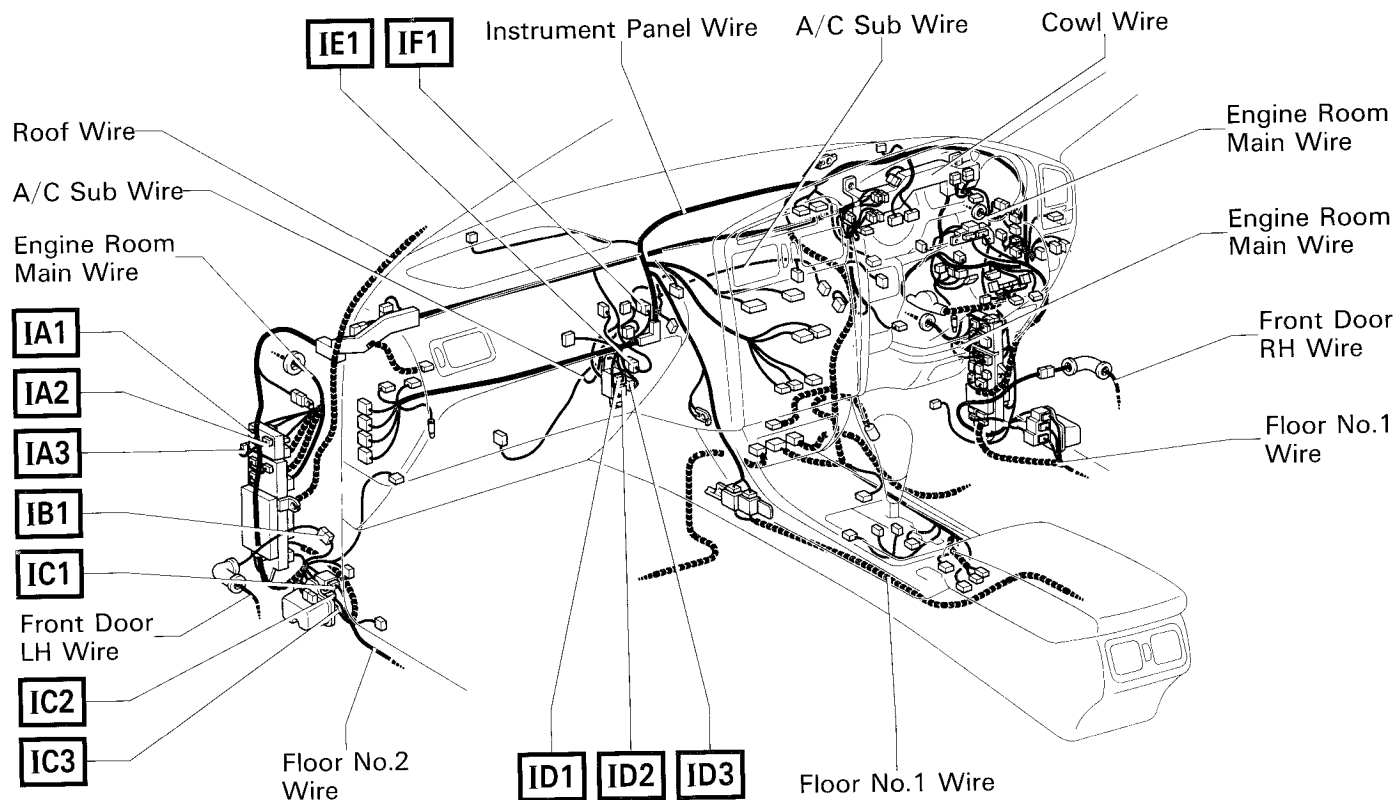


| Code | Joining Wire Harness and Wire Harness (Connector Location)          |
|------|---------------------------------------------------------------------|
| EA1  | Engine Wire and Cowl Wire (Inside of the ECU Box)                   |
| EA2  |                                                                     |
| EA3  |                                                                     |
| EA4  |                                                                     |
| EB1  | Cowl Wire and Relay Block Wire (Inside of the Engine Room No.3 R/B) |
| EB2  |                                                                     |

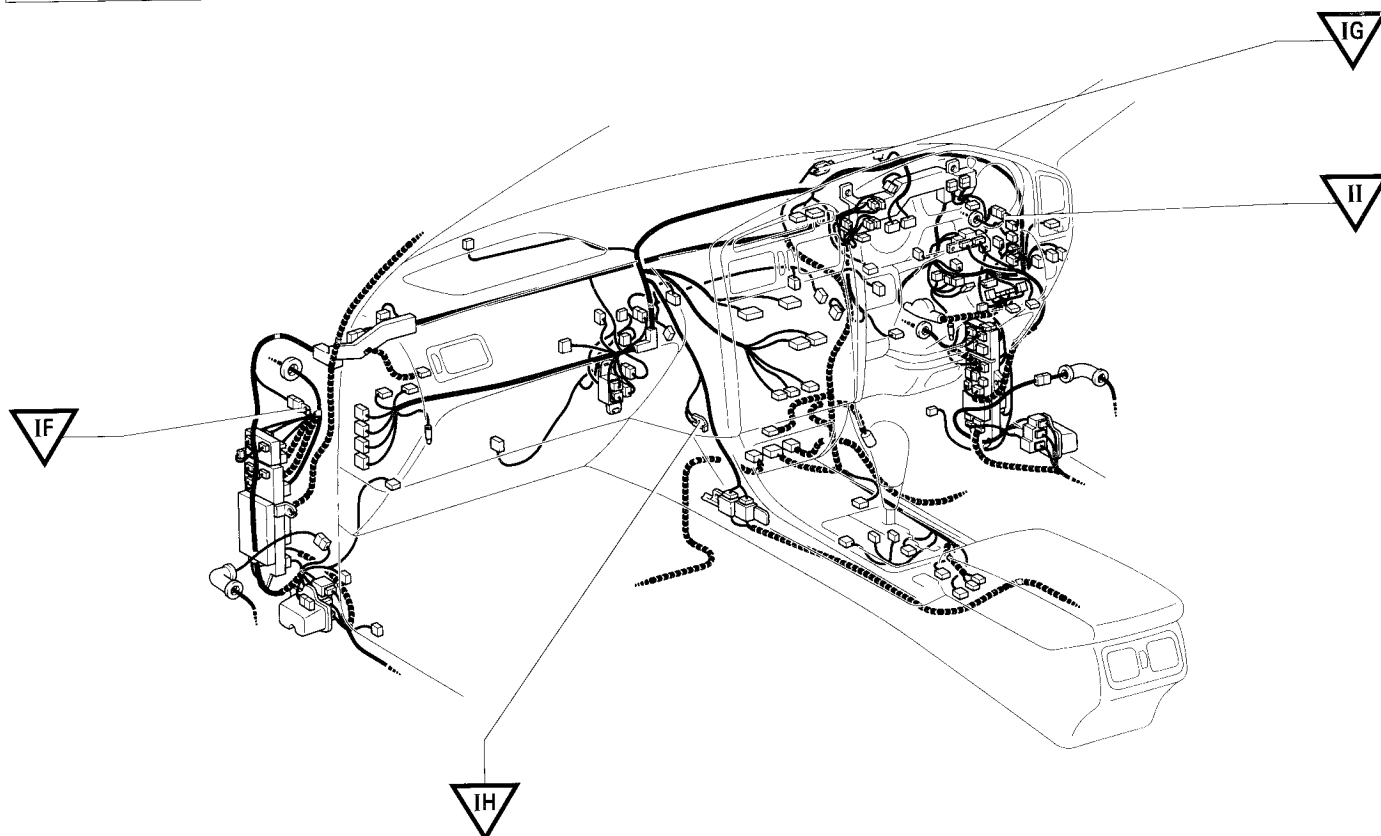
## G ELECTRICAL WIRING ROUTING

□: Location of Connector Joining Wire Harness and Wire Harness

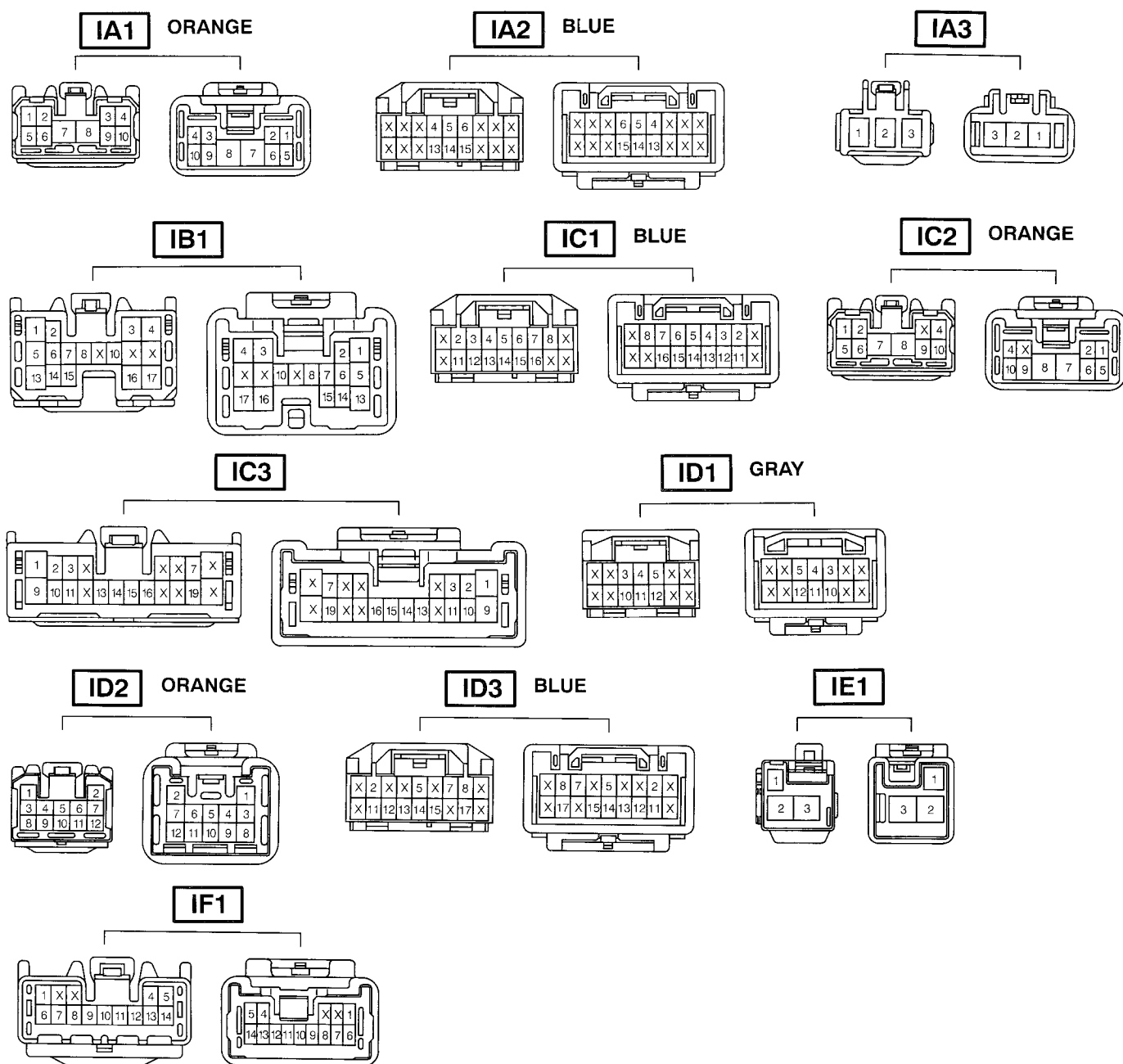
[RHD]



▽: Location of Ground Points



## Connector Joining Wire Harness and Wire Harness



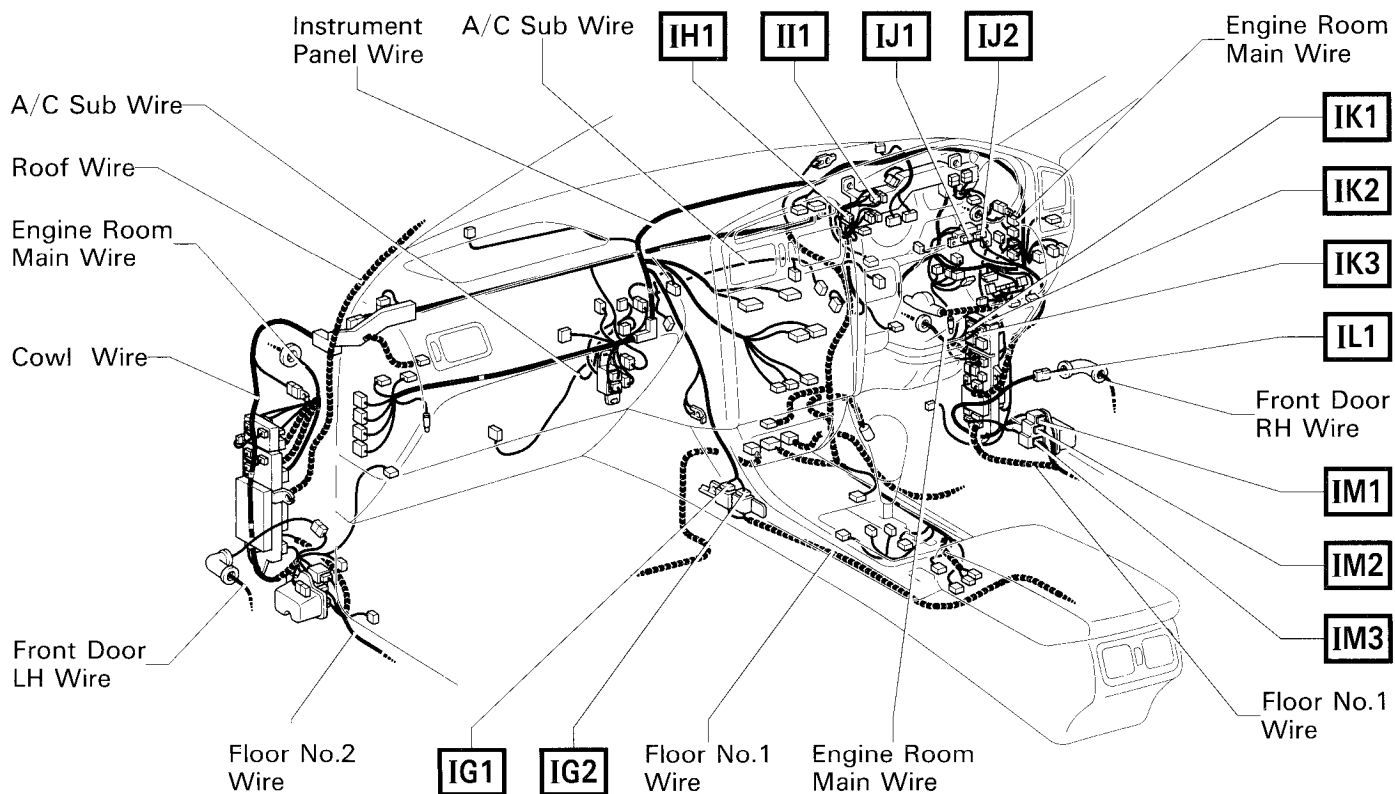
| Code | Joining Wire Harness and Wire Harness (Connector Location)             |
|------|------------------------------------------------------------------------|
| IA1  | Engine Room Main Wire and Cowl Wire (Near the Passenger Side R/B)      |
| IA2  |                                                                        |
| IA3  |                                                                        |
| IB1  | Front Door LH Wire and Cowl Wire (Left Kick Panel)                     |
| IC1  | Floor No.2 Wire and Cowl Wire (Left Kick Panel)                        |
| IC2  |                                                                        |
| IC3  |                                                                        |
| ID1  | Instrument Panel Wire and Cowl Wire (Right Side of the Blower Unit)    |
| ID2  |                                                                        |
| ID3  |                                                                        |
| IE1  | Cowl Wire and A/C Sub Wire (Right Side of the Blower Unit)             |
| IF1  | Instrument Panel Wire and A/C Sub Wire (Right Side of the Blower Unit) |



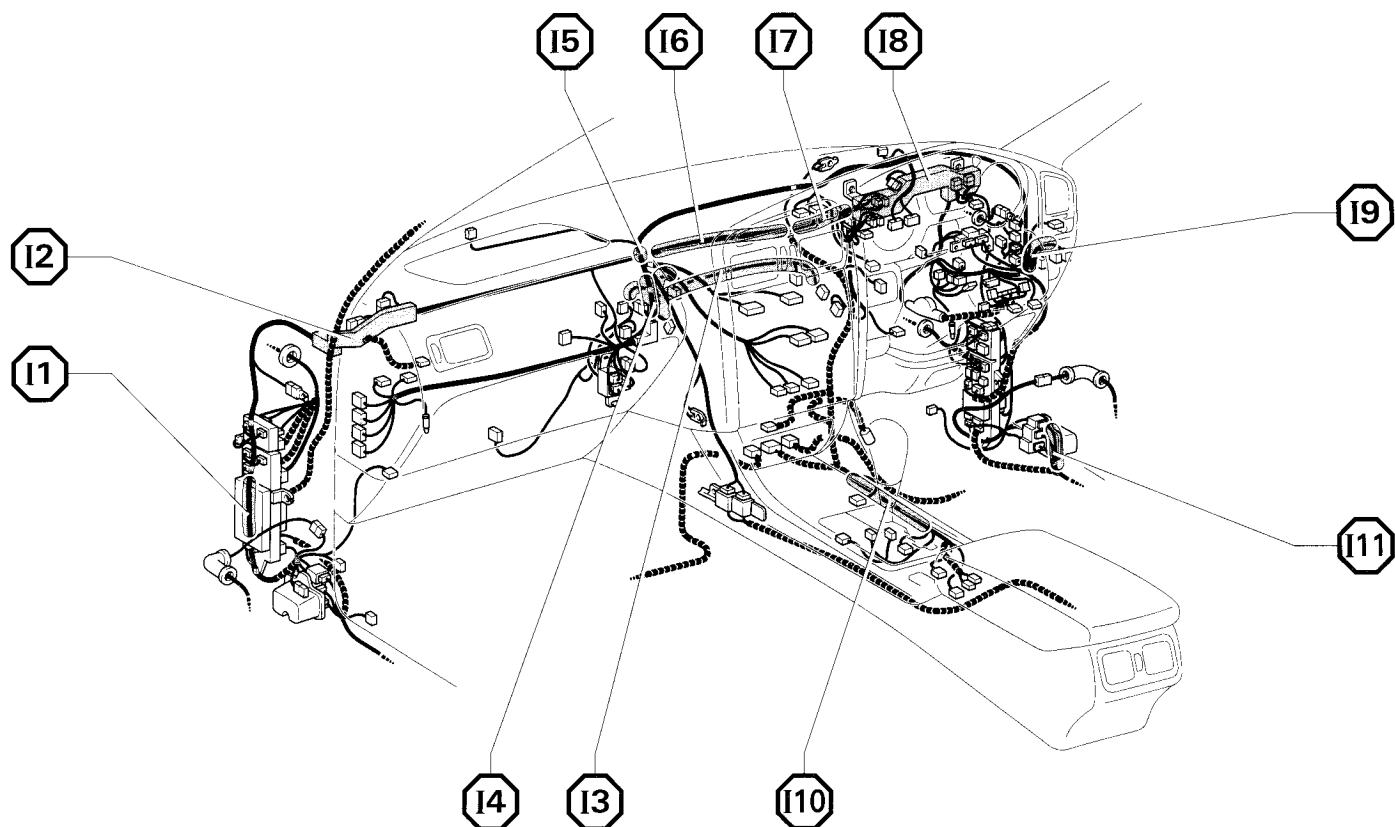
## G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness

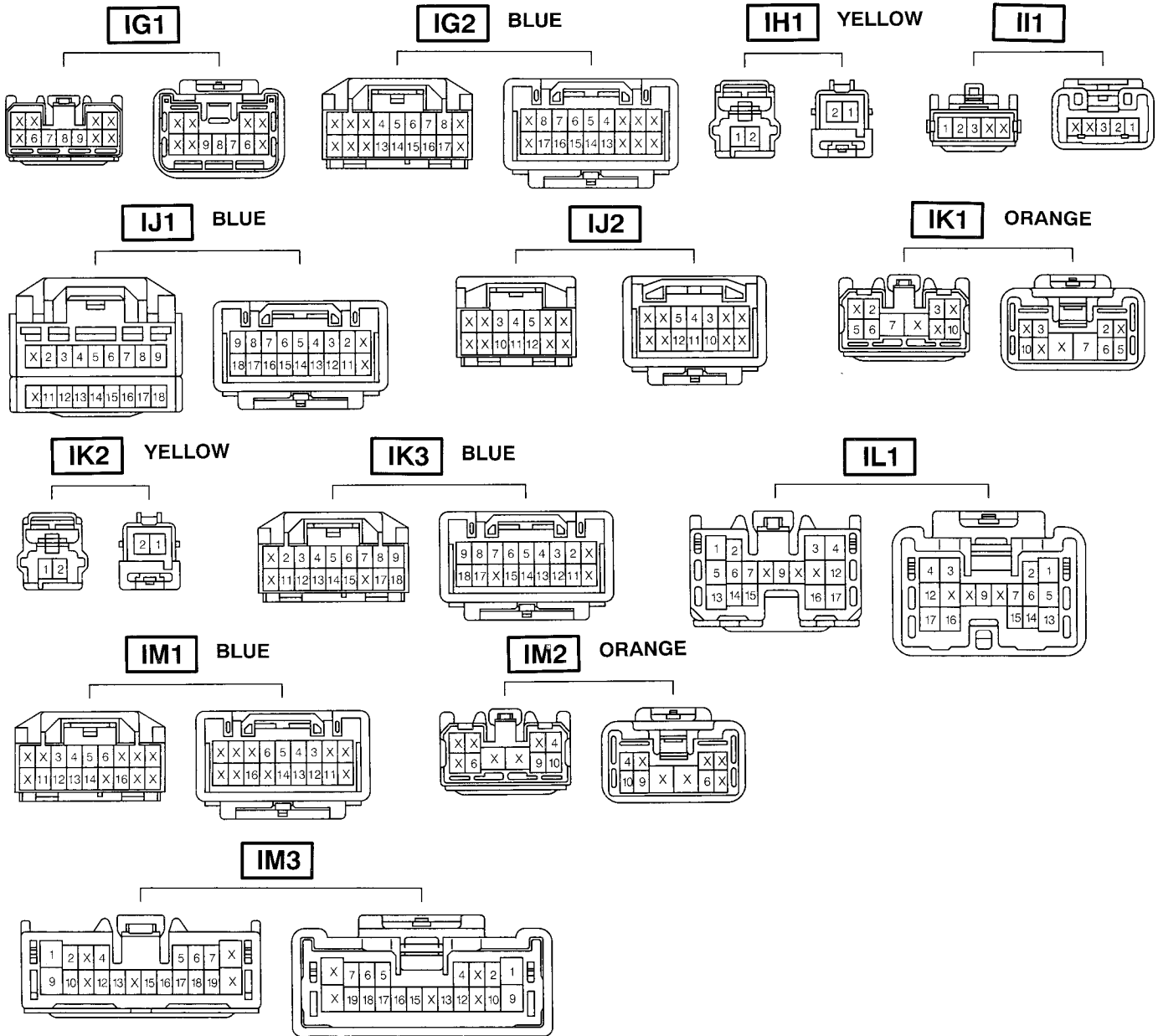
[RHD]



○ : Location of Splice Points



## Connector Joining Wire Harness and Wire Harness



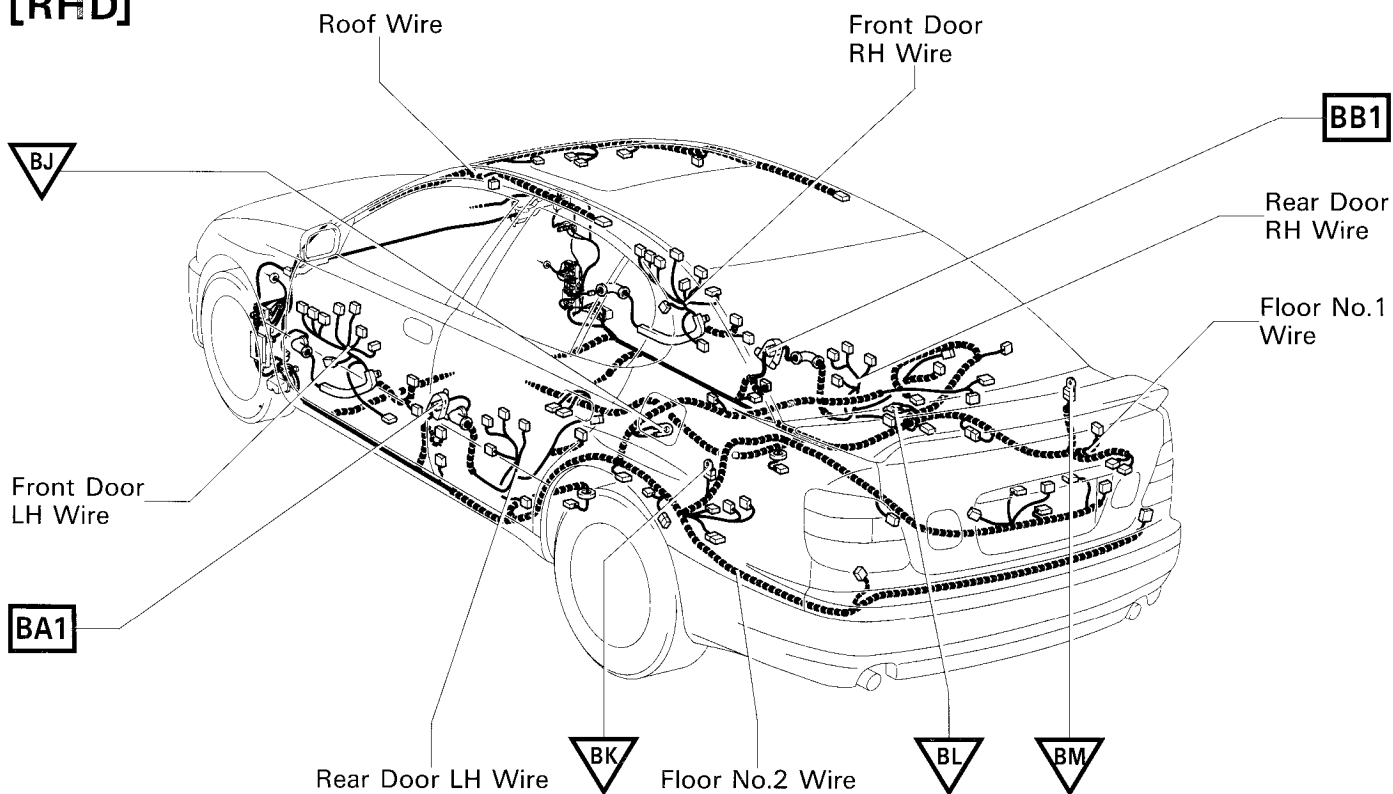
| Code | Joining Wire Harness and Wire Harness (Connector Location)                   |
|------|------------------------------------------------------------------------------|
| IG1  | Instrument Panel Wire and Floor No.1 Wire (Front LH Side of the Shift Lever) |
| IG2  |                                                                              |
| IH1  | Cowl Wire and Cowl Wire (Left Side of the Steering Column)                   |
| II1  |                                                                              |
| IJ1  | Instrument Panel Wire and Cowl Wire (Right Side of the Steering Column)      |
| IJ2  |                                                                              |
| IK1  | Engine Room Main Wire and Cowl Wire (Near the Driver Side J/B)               |
| IK2  |                                                                              |
| IK3  |                                                                              |
| IL1  | Front Door RH Wire and Cowl Wire (Right Kick Panel)                          |
| IM1  | Floor No.1 Wire and Cowl Wire (Right Kick Panel)                             |
| IM2  |                                                                              |
| IM3  |                                                                              |

## G ELECTRICAL WIRING ROUTING

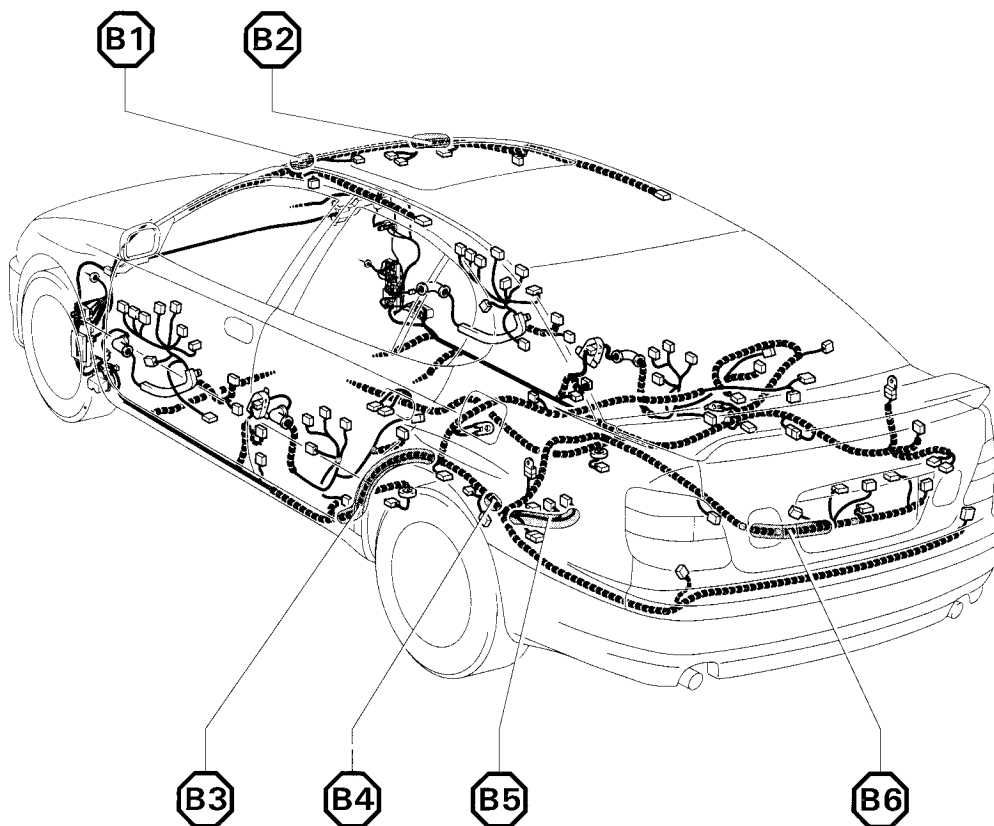
□: Location of Connector Joining Wire Harness and Wire Harness

▽: Location of Ground Points

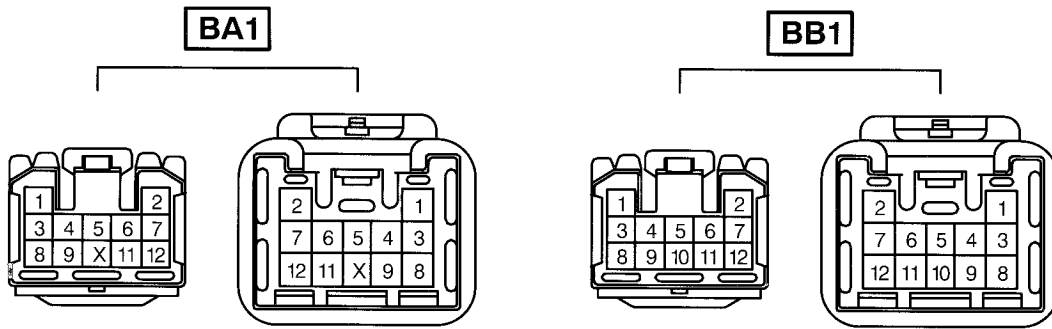
[RHD]



○: Location of Splice Points



## Connector Joining Wire Harness and Wire Harness



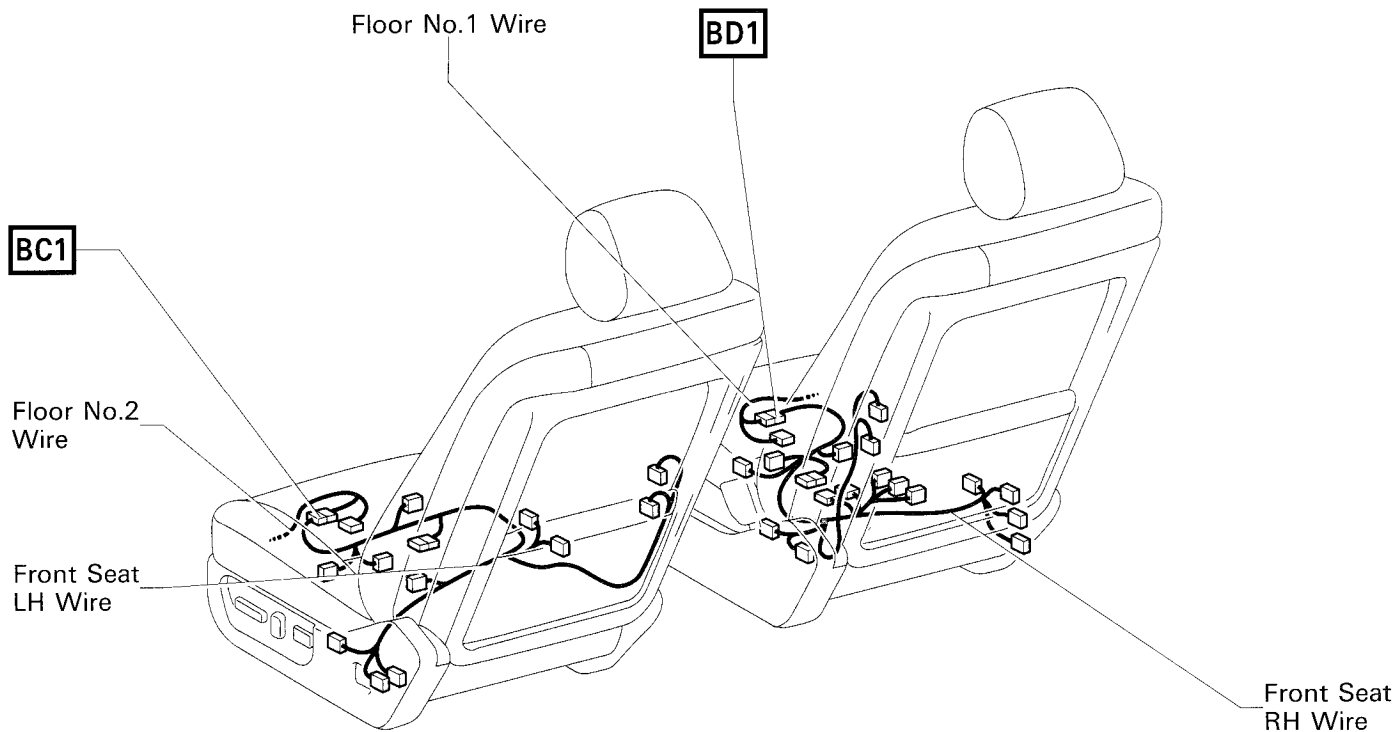
English

| Code | Joining Wire Harness and Wire Harness (Connector Location)         |
|------|--------------------------------------------------------------------|
| BA1  | Rear Door LH Wire and Floor No.2 Wire (Under the Center Pillar LH) |
| BB1  | Rear Door RH Wire and Floor No.1 Wire (Under the Center Pillar RH) |

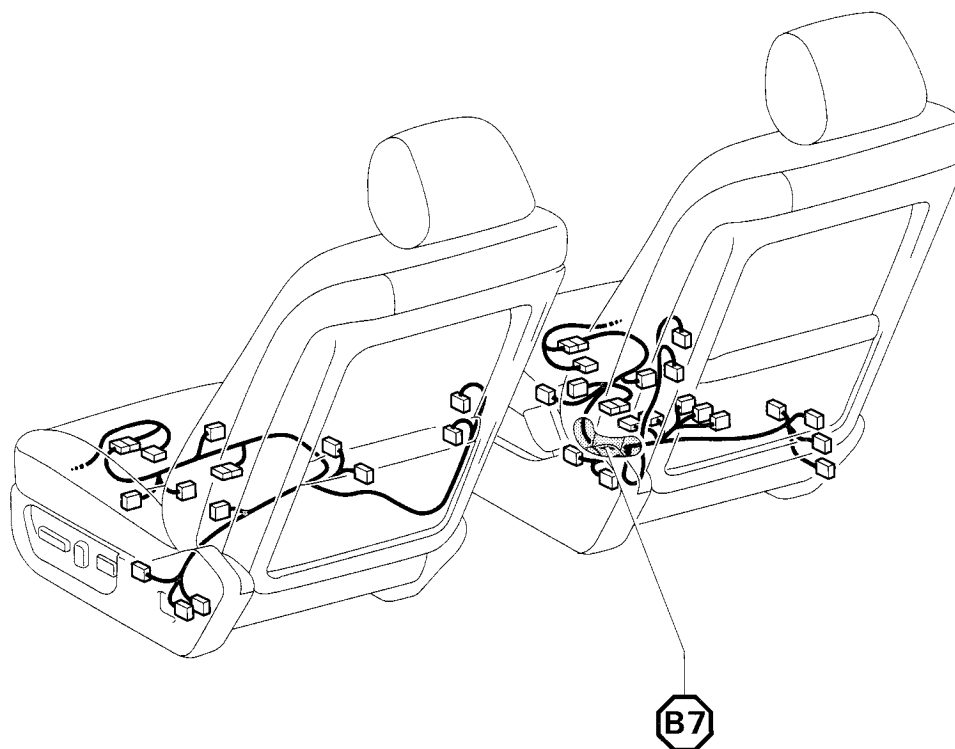
## G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness

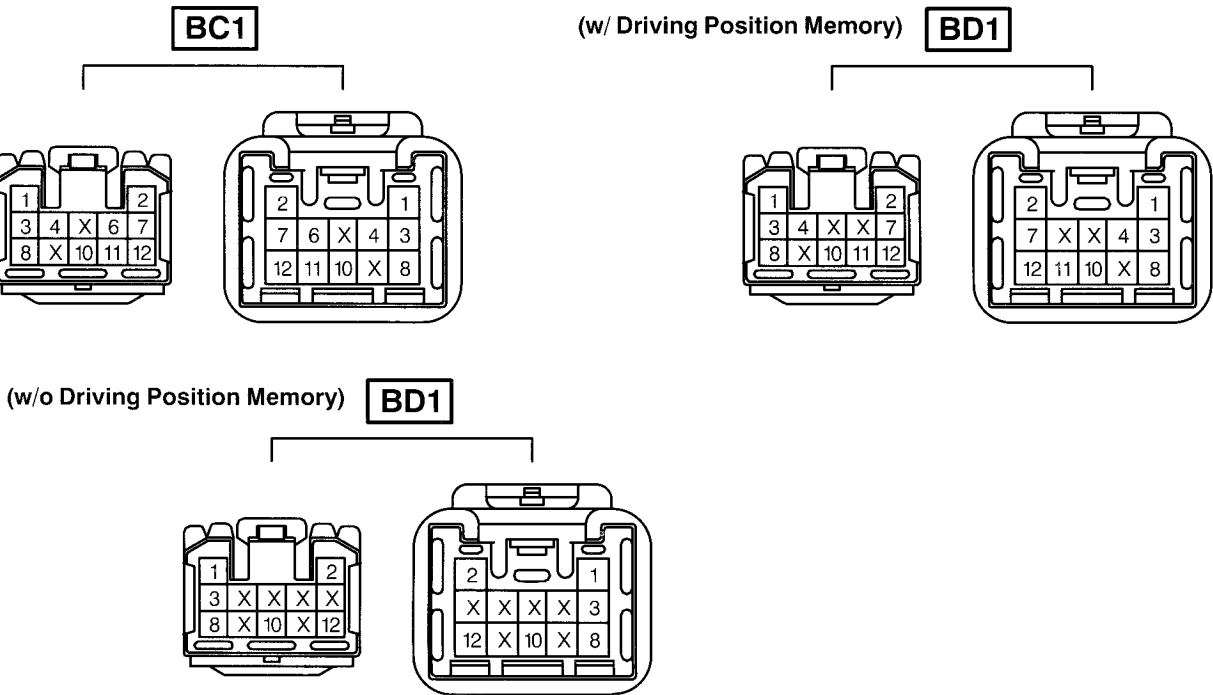
[RHD]



○ : Location of Splice Points



Connector Joining Wire Harness and Wire Harness



|      |                                                                           |
|------|---------------------------------------------------------------------------|
| Code | Joining Wire Harness and Wire Harness (Connector Location)                |
| BC1  | Floor No.2 Wire and Front Seat LH Wire (Under the Front Passenger's Seat) |
| BD1  | Floor No.1 Wire and Front Seat RH Wire (Under the Driver's Seat)          |

## H POWER SOURCE (Current Flow Chart)

The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other parts.

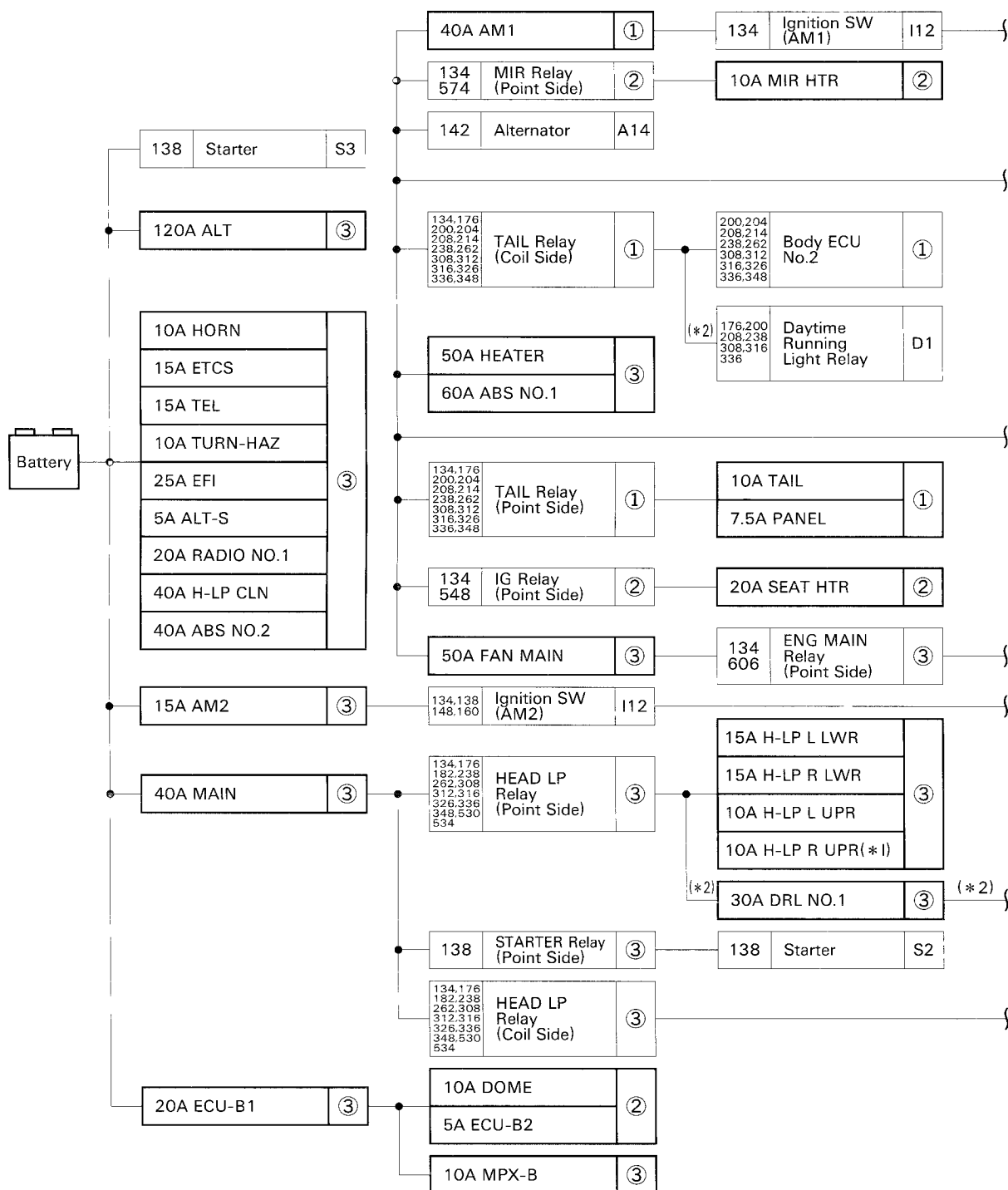
The next page and following pages show the parts to which each electrical source outputs current.

*Le schéma ci-après indique l'acheminement à travers lequel s'écoule le courant de la batterie à chaque source électrique (lames fusibles, disjoncteurs, fusibles, etc.) et autres pièces.*

*La page suivante ainsi que celles qui suivent indiquent les pièces auxquelles chaque source électrique produit du courant.*

*En el siguiente cuadro aparece la ruta que recorre la corriente desde la batería hasta cada fuente de alimentación (eslabón fusible, fusible, ruptor, etc.) y otras piezas.*

*Las siguientes páginas indican las partes que reciben alimentación.*

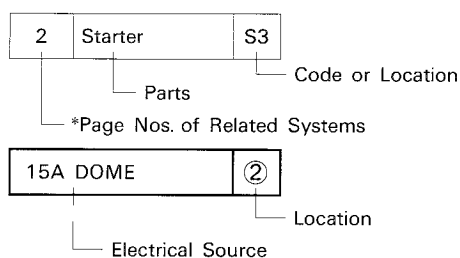


[LOCATION] ① : Driver Side J/B (See page 58)

② : Passenger Side J/B (See page 60)

④ : Engine Room No.2 R/B (See page 55) ⑤ : Engine Room No.3 R/B (See page 56)

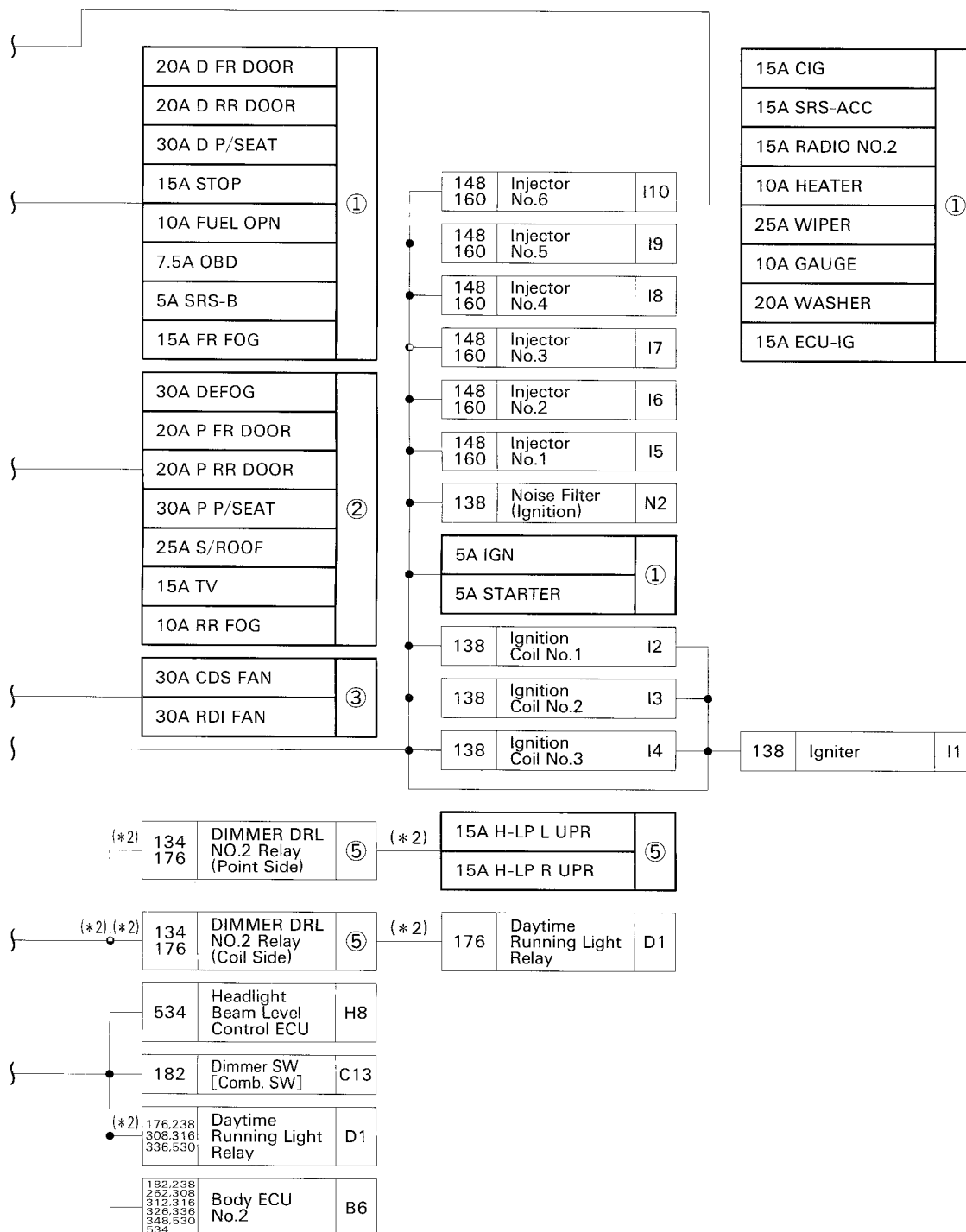
## Example



\* These are the page numbers of the first page on which the related system is shown.  
The part indicated is located somewhere in the system, not necessarily on the page indicated here.

\* *Numéros de page de la première page sur laquelle le système afférent est représenté.  
L'organe indiqué se trouve quelque part à l'intérieur du système, mais non pas nécessairement dans la page qui est mentionnée ici.*

\* *Estos son los números de página de la primera página en la que se muestra el sistema relacionado.  
La parte indicada está situada en algun sitio del sistema, y no necesariamente en la página aquí indicada.*



③ : Engine Room No.1 R/B (See page 54)

⑥ : Passenger Side R/B (See page 57)



## H POWER SOURCE (Current Flow Chart)

[illegible]

\* These are the page numbers of the first page on which the related system is shown.  
The part indicated is located somewhere in the system, not necessarily on the page indicated here.

[LOCATION] ①: Driver Side J/B (See page 58) ②: Passenger Side J/B (See page 60)  
④: Engine Room No.2 R/B (See page 55) ⑤: Engine Room No.3 R/B (See page 56)

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# H POWER SOURCE (Current Flow Chart)

| Page Nos. of Related Systems |      |            | 238,262,288,298,308<br>312,316,326,336,348<br>362,374,386,400,416<br>424,432,438,450,462 | 478 | 138,148<br>160,478<br>490,610 | 148,160<br>172,478<br>490,598 | 610 | 208<br>214 | 188 | 188 | 200<br>204 | 200<br>204 | 552 | 546 | 238,262,288,298<br>316,326,336,348<br>362,374,386,400<br>416,424,450,462 |
|------------------------------|------|------------|------------------------------------------------------------------------------------------|-----|-------------------------------|-------------------------------|-----|------------|-----|-----|------------|------------|-----|-----|--------------------------------------------------------------------------|
| Parts                        |      |            |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
| Code or Location             |      |            |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
| CB or Fuse                   |      |            | D20                                                                                      | E3  | E5                            | E6                            | E10 | E11        | F1  | F2  | F5         | F6         | F7  | F8  | F11                                                                      |
| ①                            | 5A   | IGN        |                                                                                          |     | ●                             | ●                             |     |            |     |     |            |            |     |     |                                                                          |
|                              | 5A   | SRS-B      |                                                                                          |     | ●                             |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 5A   | STARTER    |                                                                                          |     | ●                             |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 7.5A | OBD        |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 7.5A | PANEL      |                                                                                          |     |                               |                               |     | ●          |     |     |            |            |     |     |                                                                          |
|                              | 10A  | FUEL OPN   |                                                                                          |     |                               |                               |     |            |     |     |            |            |     | ●   |                                                                          |
|                              | 10A  | GAUGE      |                                                                                          | ●   | ●                             | ●                             |     |            |     |     |            |            |     |     |                                                                          |
|                              | 10A  | HEATER     |                                                                                          |     | ●                             |                               | ●   |            |     |     |            |            |     |     |                                                                          |
|                              | 10A  | TAIL       |                                                                                          |     |                               |                               |     |            |     |     | ●          | ●          |     |     |                                                                          |
|                              | 15A  | CIG        |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 15A  | ECU-IG     | ●                                                                                        |     |                               |                               |     |            |     |     |            |            |     |     | ●                                                                        |
|                              | 15A  | FR FOG     |                                                                                          |     |                               |                               |     |            | ●   | ●   |            |            |     |     |                                                                          |
|                              | 15A  | RADIO NO.2 |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 15A  | SRS-ACC    |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 15A  | STOP       |                                                                                          |     | ●                             |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 20A  | D FR DOOR  |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 20A  | D RR DOOR  |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 20A  | WASHER     |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 25A  | WIPER      |                                                                                          |     |                               |                               |     |            |     |     |            |            | ●   |     |                                                                          |
| ②                            | 30A  | D P/SEAT   |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 5A   | ECU-B2     |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 10A  | DOME       |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 10A  | MIR HTR    |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 10A  | RR FOG     |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 15A  | TV         |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 20A  | P FR DOOR  |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     | ●                                                                        |
|                              | 20A  | P RR DOOR  |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 20A  | SEAT HTR   |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
| ③                            | 25A  | S/ROOF     |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 30A  | DEFOG      |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 30A  | P P/SEAT   |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 5A   | ALT-S      |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 10A  | H-LP L UPR |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 10A  | H-LP R UPR |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 10A  | HORN       |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 10A  | MPX-B      | ●                                                                                        |     |                               |                               |     |            |     |     |            |            |     |     | ●                                                                        |
|                              | 15A  | ETCS       |                                                                                          |     |                               | ●                             |     |            |     |     |            |            |     |     |                                                                          |
|                              | 15A  | H-LP L LWR |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 15A  | H-LP R LWR |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 15A  | TEL        |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 10A  | TURN-HAZ   |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 20A  | RADIO NO.1 |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 25A  | EFI        |                                                                                          |     | ●                             | ●                             |     |            |     |     |            |            |     |     |                                                                          |
| ⑤                            | 30A  | CDS FAN    |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 30A  | DRL NO.1   |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 40A  | H-LP CLN   |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 30A  | RDI FAN    |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 40A  | ABS NO.2   |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 50A  | HEATER     |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 60A  | ABS NO.1   |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 15A  | H-LP L UPR |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |
|                              | 15A  | H-LP R UPR |                                                                                          |     |                               |                               |     |            |     |     |            |            |     |     |                                                                          |

\* These are the page numbers of the first page on which the related system is shown.  
The part indicated is located somewhere in the system, not necessarily on the page indicated here.

[LOCATION] ① : Driver Side J/B (See page 58)

② : Passenger Side J/B (See page 60)

④ : Engine Room No.2 R/B (See page 55) ⑤ : Engine Room No.3 R/B (See page 56)

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# H POWER SOURCE (Current Flow Chart)

| Location |          |            | Page Nos. of Related Systems | Parts | Code or Location | CB or Fuse |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|----------|----------|------------|------------------------------|-------|------------------|------------|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|
|          |          |            |                              |       |                  | H22        | H23 | H25 | H26 | I11 | I13 | I14 | I15 | L2 | L3 | L4 | L5 | L7 | L8 | L9 | M2 | M4 | N1 | N3 | N5 | P4 |  |  |  |
| ①        | 5A       | IGN        |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 5A       | SRS-B      |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 5A       | STARTER    |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 7.5A     | OBD        |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 7.5A     | PANEL      | ●                            |       |                  |            |     |     |     |     |     |     |     |    |    |    |    | ●  |    |    |    |    |    |    |    |    |  |  |  |
|          | 10A      | FUEL OPN   |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 10A      | GAUGE      |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 10A      | HEATER     |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 10A      | TAIL       |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 15A      | CIG        |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 15A      | ECU-IG     |                              |       |                  |            |     |     | ●   |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 15A      | FR FOG     |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 15A      | RADIO NO.2 |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 15A      | SRS-ACC    |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 15A      | STOP       |                              |       | ●                | ●          |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 20A      | D FR DOOR  |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 20A      | D RR DOOR  |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 20A      | WASHER     | ●                            |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 25A      | WIPER      |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 30A      | D P/SEAT   |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| ②        | 5A       | ECU-B2     |                              |       |                  |            |     | ●   |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 10A      | DOME       |                              |       |                  |            |     |     | ●   | ●   |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 10A      | MIR HTR    |                              |       |                  |            |     |     |     |     | ●   |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 10A      | RR FOG     |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 15A      | TV         |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 20A      | P FR DOOR  |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 20A      | P RR DOOR  |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 20A      | SEAT HTR   |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 25A      | S/ROOF     |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 30A      | DEFOG      |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 30A      | P P/SEAT |            |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| ③        | 5A       | ALT-S      |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 10A      | H-LP L UPR |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 10A      | H-LP R UPR |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 10A      | HORN       |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 10A      | MPX-B      |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 15A      | ETCS       |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 15A      | H-LP L LWR |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 15A      | H-LP R LWR |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 15A      | TEL        |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 10A      | TURN-HAZ   |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 20A      | RADIO NO.1 |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 25A      | EFI        |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 30A      | CDS FAN    |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 30A      | DRL NO.1   |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 40A      | H-LP CLN   |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 30A      | RDI FAN    |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 40A      | ABS NO.2 |            |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 50A      | HEATER   |            |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 60A      | ABS NO.1 |            |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| ⑤        | 15A      | H-LP L UPR |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|          | 15A      | H-LP R UPR |                              |       |                  |            |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |

\* These are the page numbers of the first page on which the related system is shown.  
The part indicated is located somewhere in the system, not necessarily on the page indicated here.

[LOCATION] ① : Driver Side J/B (See page 58) ② : Passenger Side J/B (See page 60)  
④ : Engine Room No.2 R/B (See page 55) ⑤ : Engine Room No.3 R/B (See page 56)

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# H POWER SOURCE (Current Flow Chart)

| Location | Page Nos. of Related Systems | Parts      | Code or Location | CB or Fuse | Rear Door RH ECU | Remote Control Mirror LH | Remote Control Mirror RH | Seat Heater SW | Shift Lock Control ECU | Step Light LH | Step Light RH | Stereo Component Amplifier | Stop Light SW | Seat Heater (Driver's Seat Back) | Seat Heater (Driver's Seat Cushion) | Seat Heater (Front Passenger's Seat Back) | Seat Heater (Front Passenger's Seat Cushion) | Tilt and Telescopic ECU | Transponder Key Amplifier | Turn Signal Flasher | Telephone Transceiver and Speaker Relay | VSV (ACIS) | VSV (EVAP) |
|----------|------------------------------|------------|------------------|------------|------------------|--------------------------|--------------------------|----------------|------------------------|---------------|---------------|----------------------------|---------------|----------------------------------|-------------------------------------|-------------------------------------------|----------------------------------------------|-------------------------|---------------------------|---------------------|-----------------------------------------|------------|------------|
|          |                              |            |                  |            | R14              | R17                      | R18                      | S4             | S5                     | S6            | S7            | S10                        | S12           | S16                              | S17                                 | S18                                       | S19                                          | T5                      | T6                        | T7                  | T8                                      | V2         | V3         |
| ①        | 5A                           | IGN        |                  |            |                  |                          |                          |                |                        |               |               |                            | ●             |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 5A                           | SRS-B      |                  |            |                  |                          |                          |                |                        |               |               |                            | ●             |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 5A                           | STARTER    |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 7.5A                         | OBD        |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 7.5A                         | PANEL      |                  | ●          |                  |                          |                          | ●              |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 10A                          | FUEL OPN   |                  |            |                  |                          |                          |                | ●                      |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           | ●                   |                                         |            |            |
|          | 10A                          | GAUGE      |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 10A                          | HEATER     |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 10A                          | TAIL       |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 15A                          | CIG        |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 15A                          | ECU-IG     |                  | ●          |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              | ●                       |                           |                     | ●                                       |            |            |
|          | 15A                          | FR FOG     |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 15A                          | RADIO NO.2 |                  |            |                  |                          |                          | ●              |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 15A                          | SRS-ACC    |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 15A                          | STOP       |                  |            |                  |                          |                          |                |                        |               |               |                            | ●             |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 20A                          | D FR DOOR  |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 20A                          | D RR DOOR  |                  | ●          |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 20A                          | WASHER     |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 25A                          | WIPER      |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 30A                          | D P/SEAT   |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
| ②        | 5A                           | ECU-B2     |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 10A                          | DOME       |                  |            |                  |                          |                          |                |                        | ●             | ●             |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 10A                          | MIR HTR    |                  |            |                  | ●                        | ●                        |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 10A                          | RR FOG     |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 15A                          | TV         |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 20A                          | P FR DOOR  |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 20A                          | P RR DOOR  |                  | ●          |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 20A                          | SEAT HTR   |                  |            |                  |                          |                          | ●              |                        |               |               |                            |               | ●                                | ●                                   | ●                                         | ●                                            |                         |                           |                     |                                         |            |            |
|          | 25A                          | S/ROOF     |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 30A                          | DEFOG      |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
| ③        | 5A                           | ALT-S      |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 10A                          | H-LP L UPR |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 10A                          | H-LP R UPR |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 10A                          | HORN       |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 10A                          | MPX-B      |                  | ●          |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 15A                          | ETCS       |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 15A                          | H-LP L LWR |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 15A                          | H-LP R LWR |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 15A                          | TEL        |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 10A                          | TURN-HAZ   |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 20A                          | RADIO NO.1 |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 25A                          | EFI        |                  |            |                  |                          |                          |                |                        |               |               | ●                          |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 30A                          | CDS FAN    |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 30A                          | DRL NO.1   |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 40A                          | H-LP CLN   |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 30A                          | RDI FAN    |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 40A                          | ABS NO.2   |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 50A                          | HEATER     |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 60A                          | ABS NO.1   |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
| ⑤        | 15A                          | H-LP L UPR |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |
|          | 15A                          | H-LP R UPR |                  |            |                  |                          |                          |                |                        |               |               |                            |               |                                  |                                     |                                           |                                              |                         |                           |                     |                                         |            |            |

\* These are the page numbers of the first page on which the related system is shown.  
The part indicated is located somewhere in the system, not necessarily on the page indicated here.

[LOCATION] ① : Driver Side J/B (See page 58)

② : Passenger Side J/B (See page 60)

④ : Engine Room No.2 R/B (See page 55) ⑤ : Engine Room No.3 R/B (See page 56)

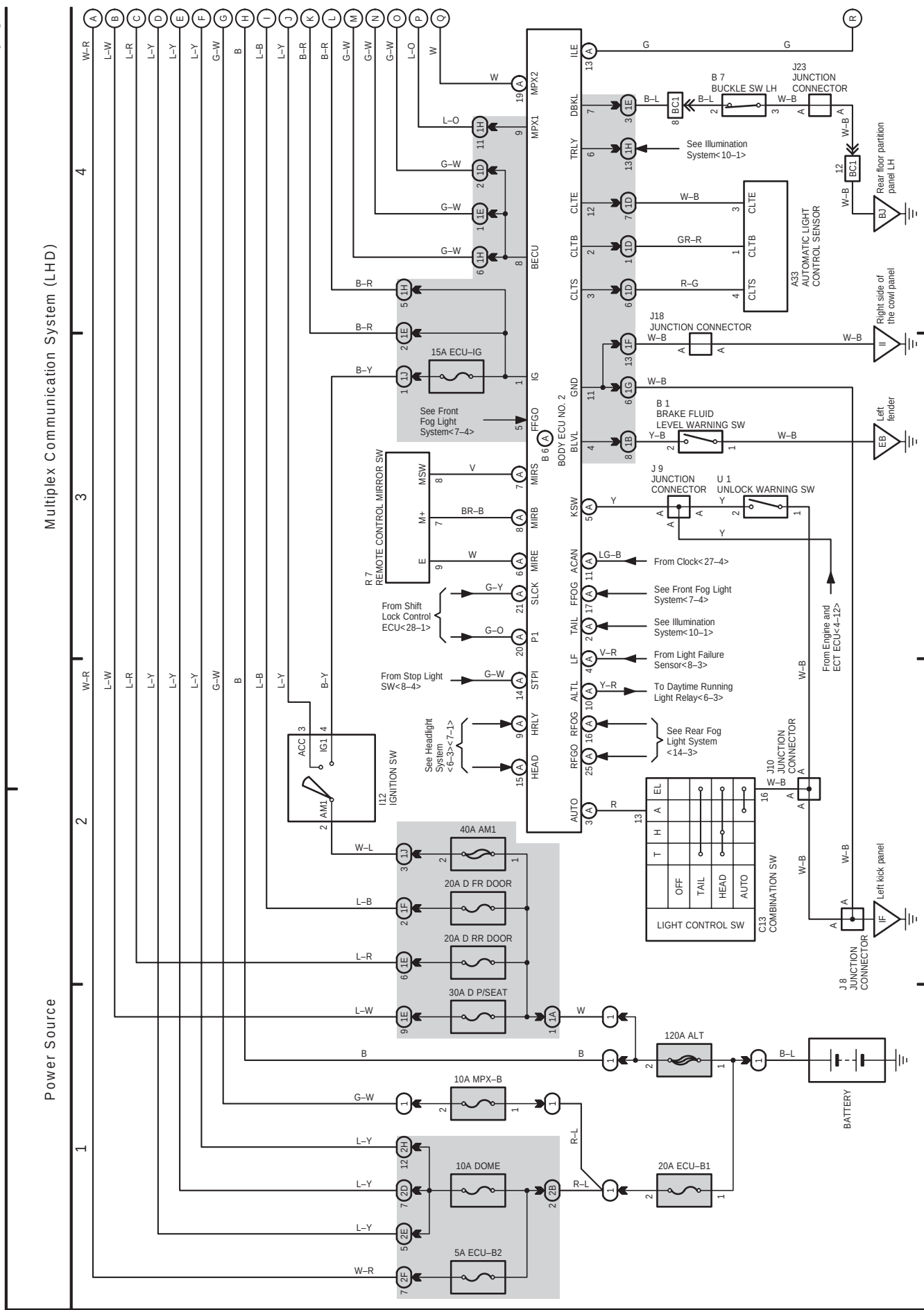
125



\* These are the page numbers of the first page on which the related system is shown.  
The part indicated is located somewhere in the system, not necessarily on the page indicated here.

②: Passenger Side J/B (See page 60)

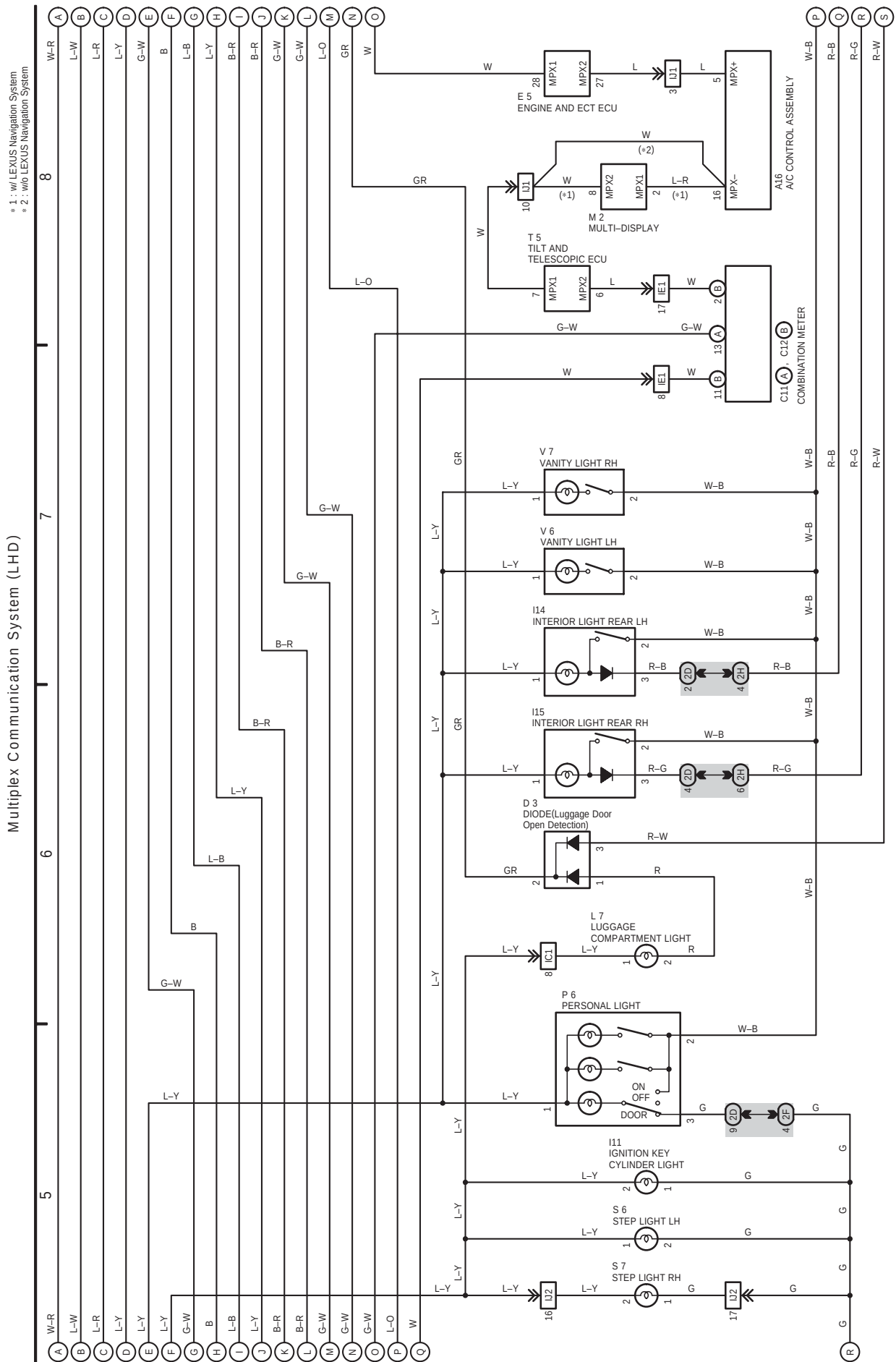
126



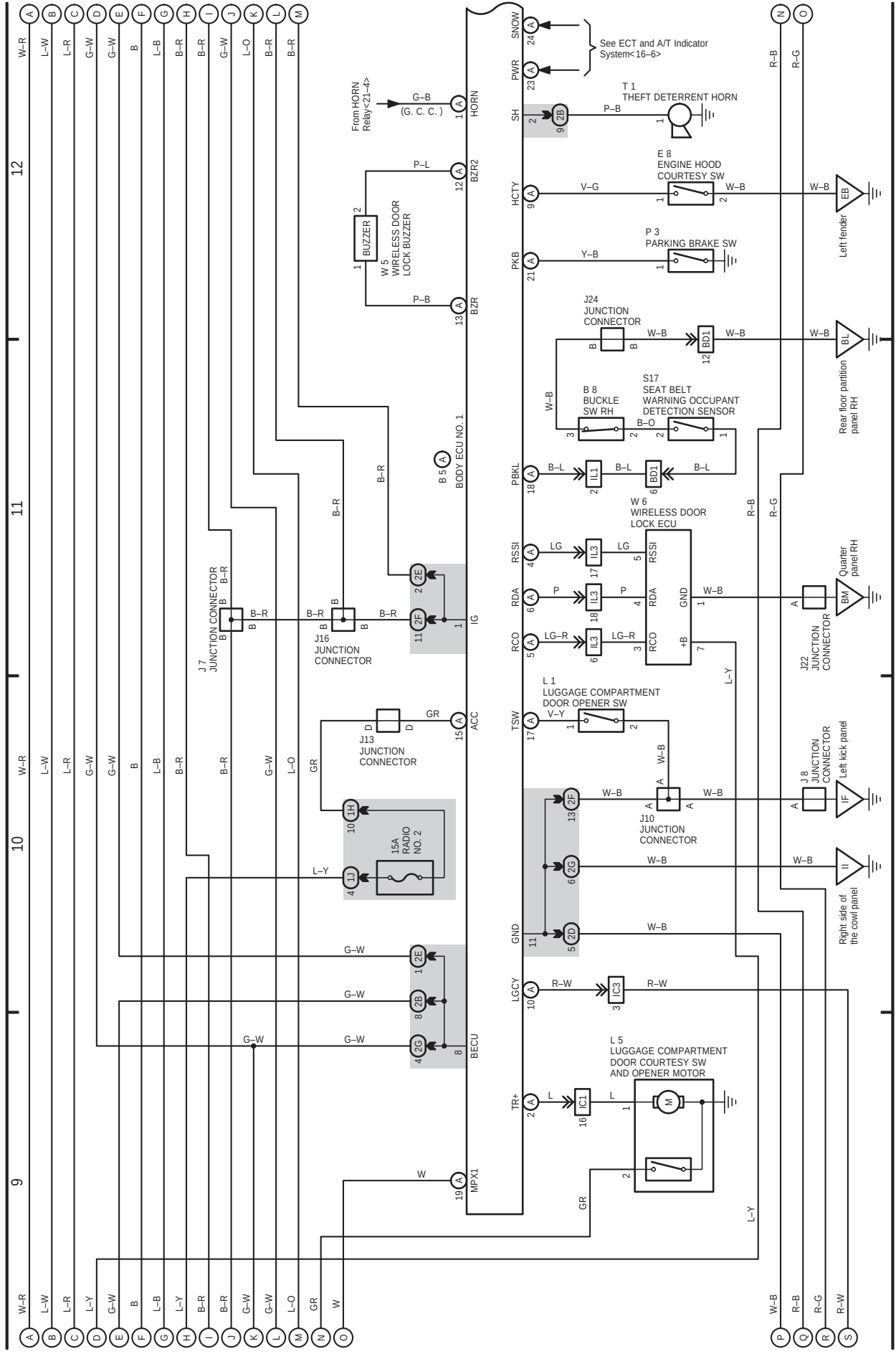
## K OVERALL ELECTRICAL WIRING DIAGRAM

(Cont. next page)

1 GS 300 (Cont' d)



## Multiplex Communication System (LHD)

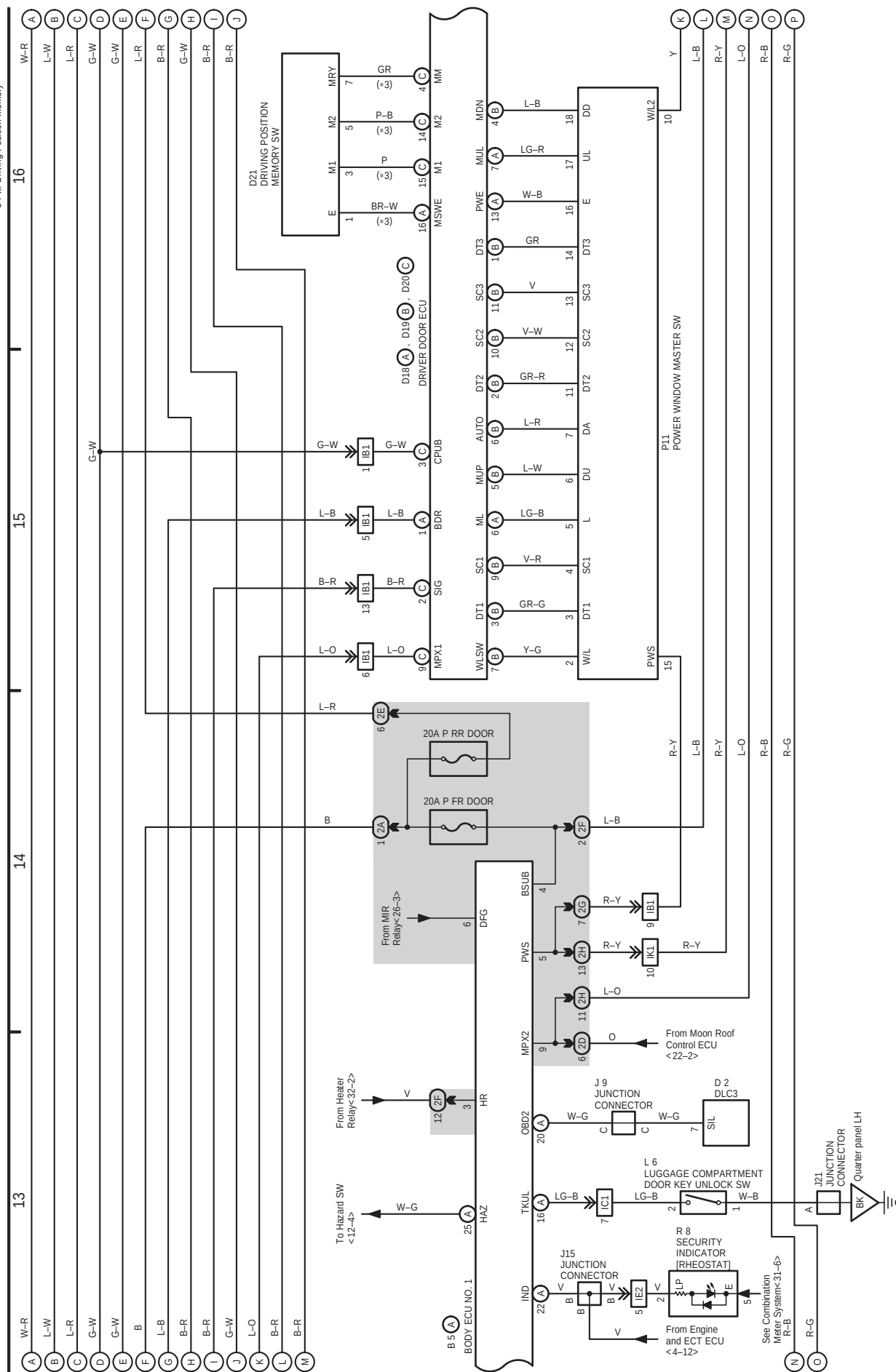




## 1 GS 300 (Cont' d)

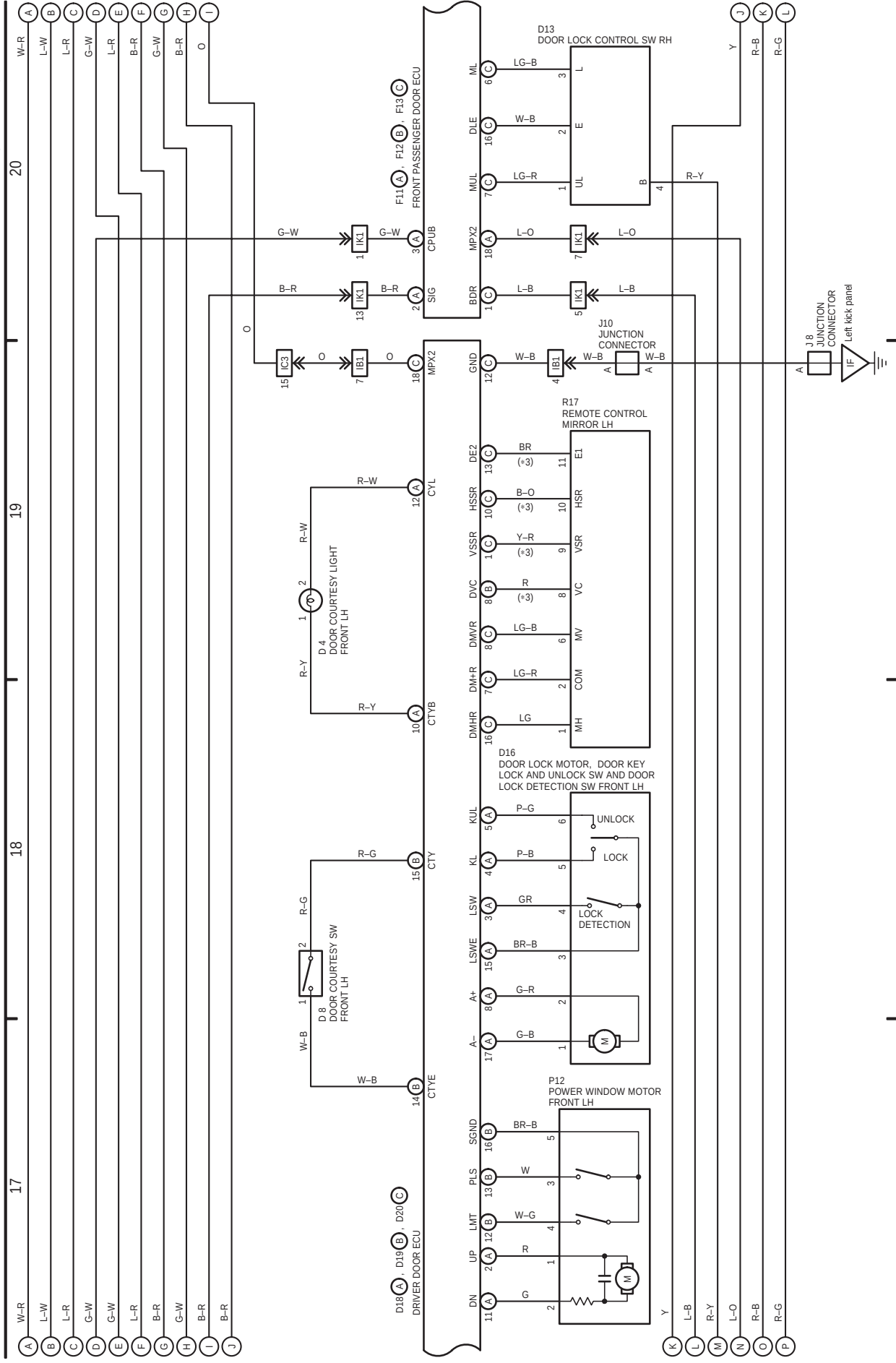
## Multiplex Communication System (LHD)

3 : w/ Driving Position Memory



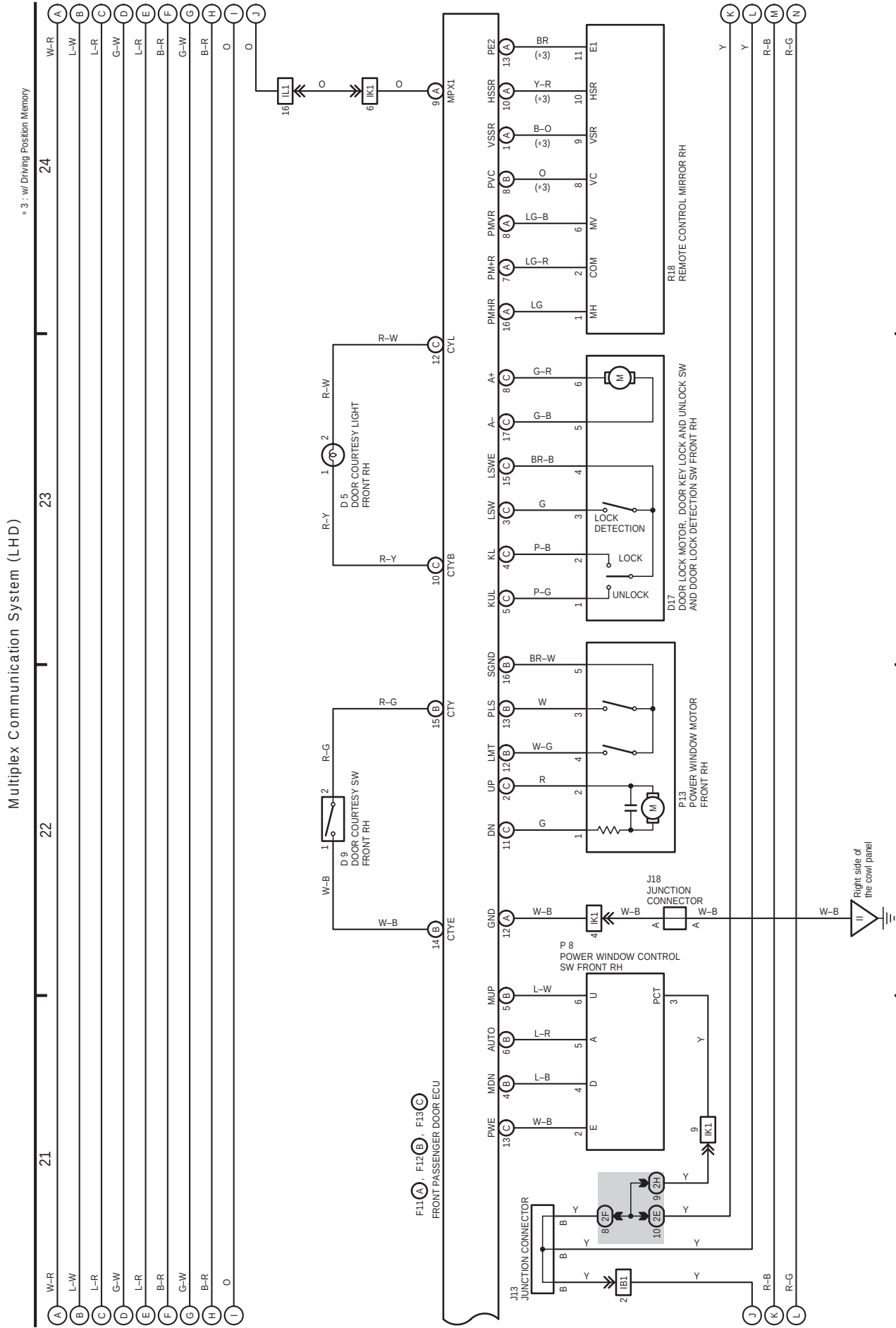
## Multiplex Communication System (LHD)

\* 3 : w/ Driving Position Memory

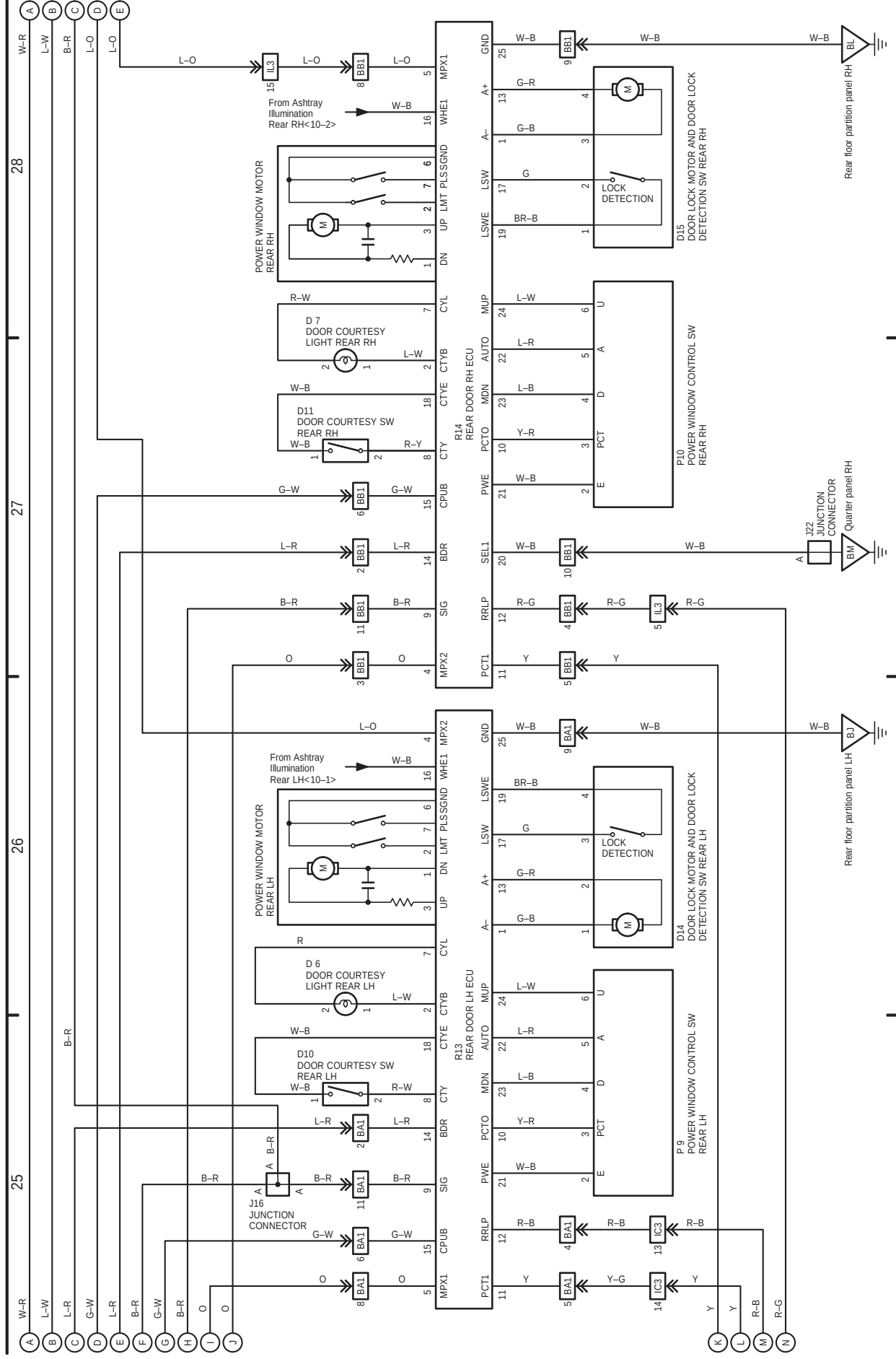


## 1 GS 300 (Cont' d)

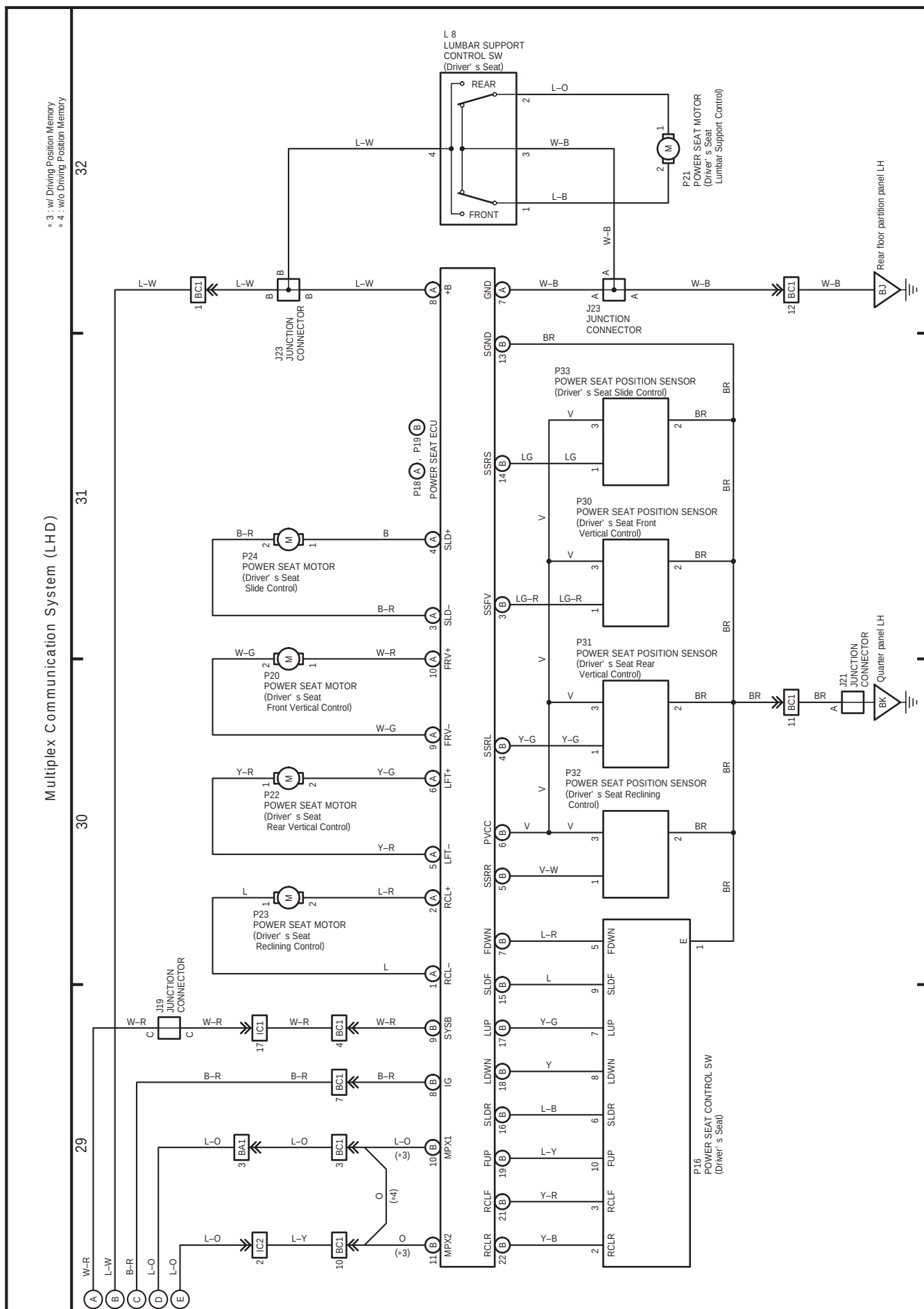
**1 GS 300 (Cont' d)**



## Multiplex Communication System (LHD)

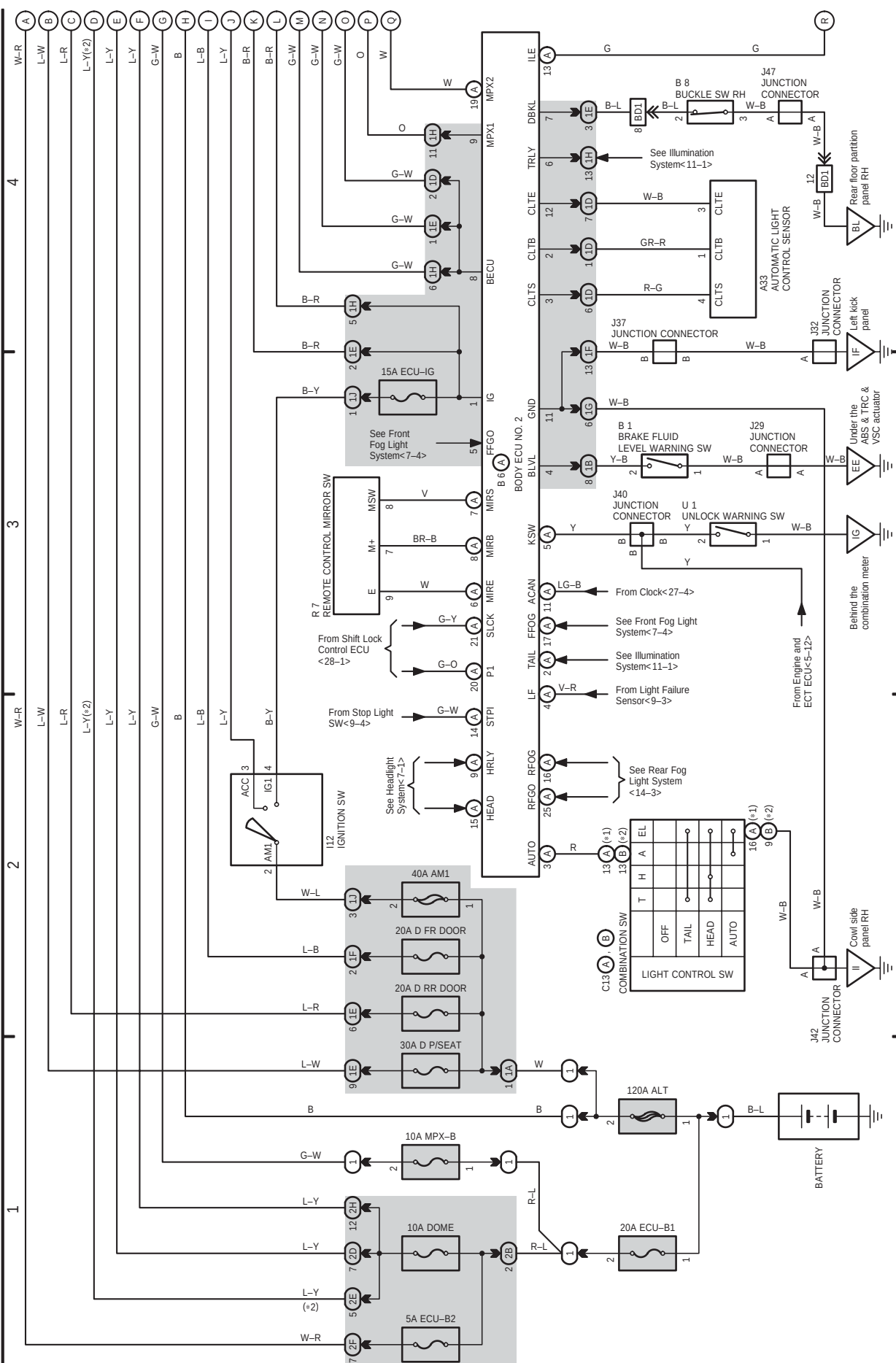


## 1 GS 300 (Cont' d)



Multiplex Communication System (RHD)

1 : Europe  
2 : Australia



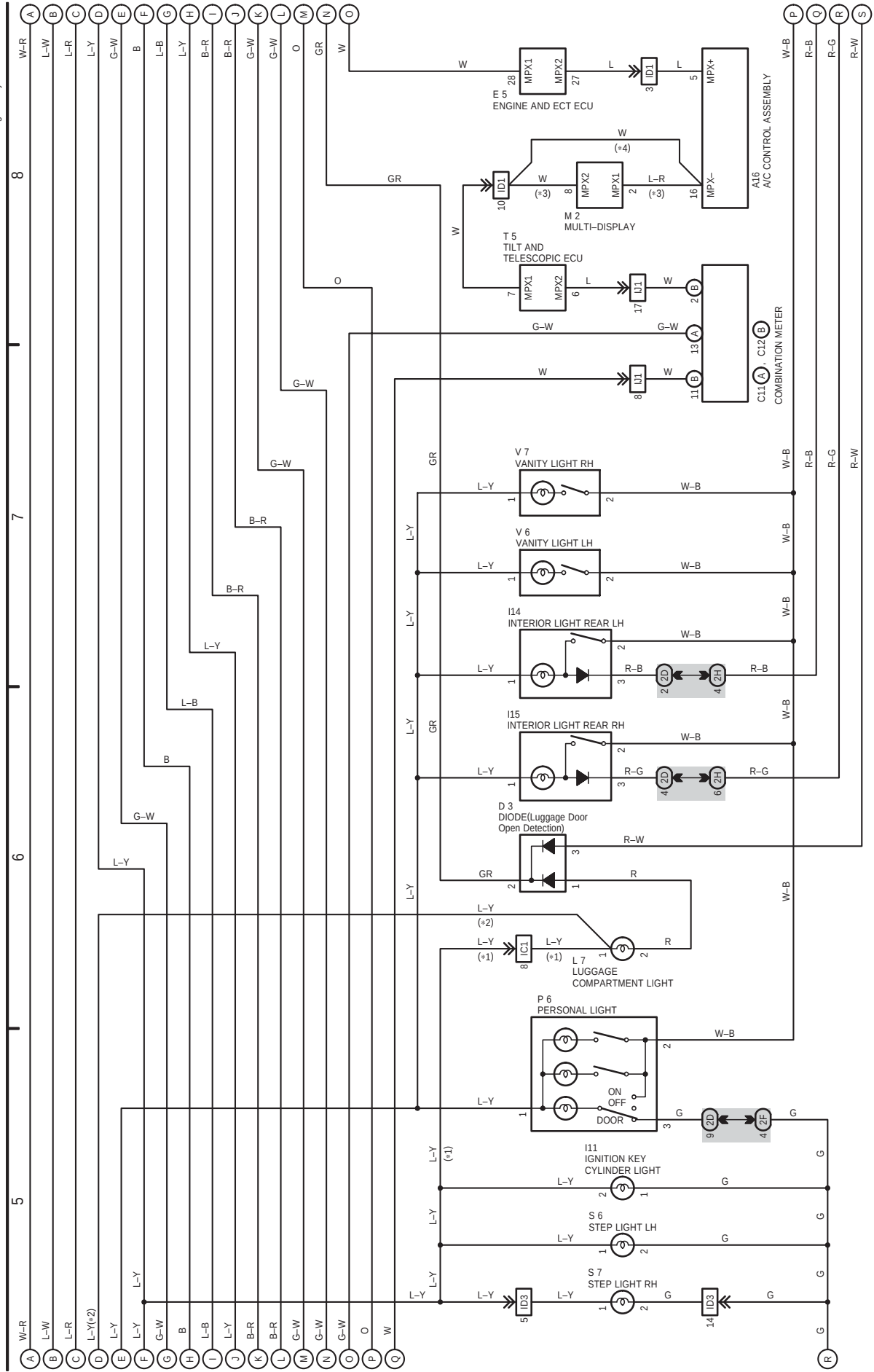
## K OVERALL ELECTRICAL WIRING DIAGRAM

2 GS 300 (Cont' d)

(Cont. next page)

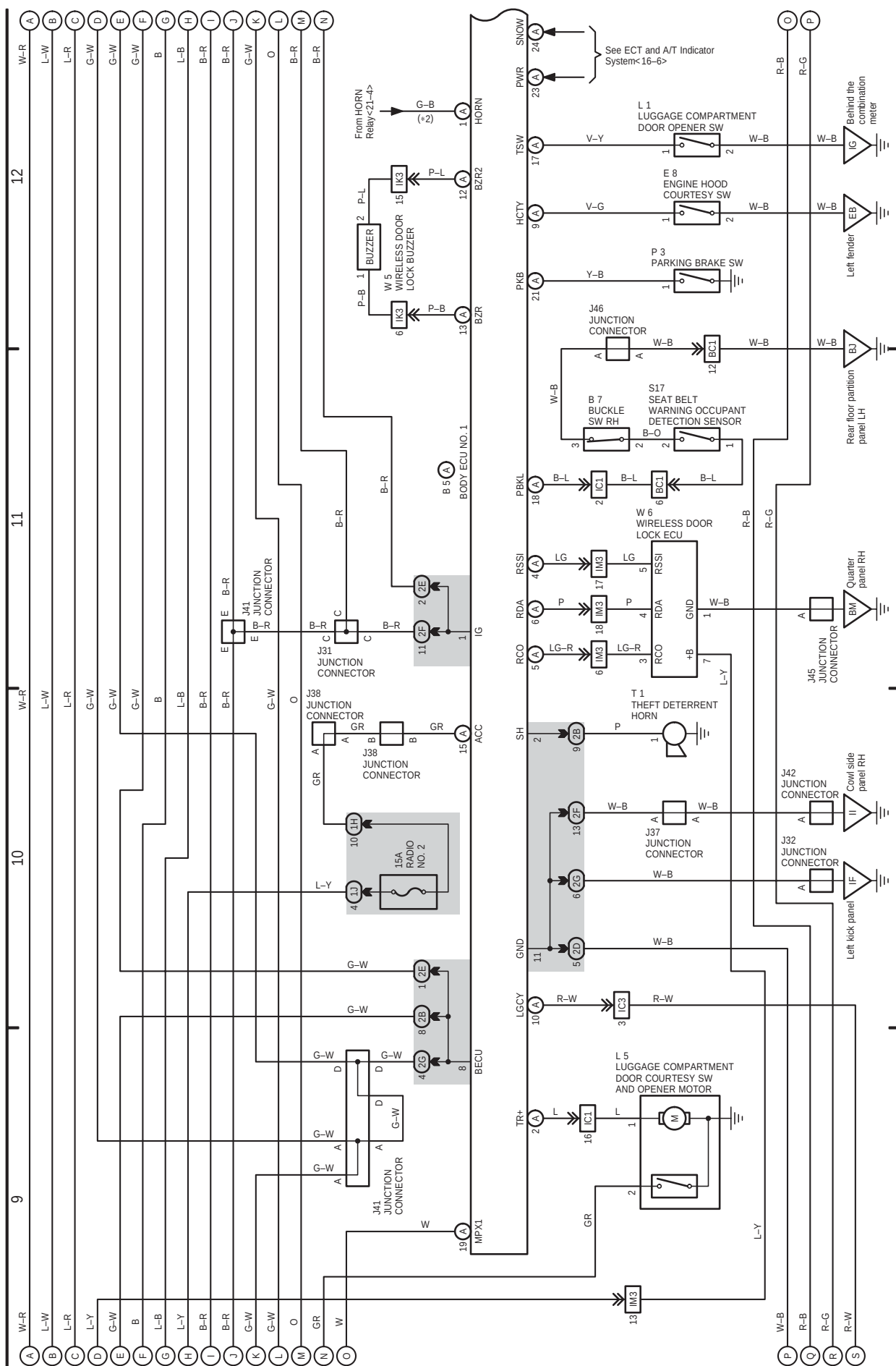
- \* 1 : Europe
- \* 2 : Australia
- \* 3 : w/ LEXUS Navigation System
- \* 4 : w/o LEXUS Navigation System

## Multiplex Communication System (RHD)



Multiplex Communication System (RHD)

2 : Australia

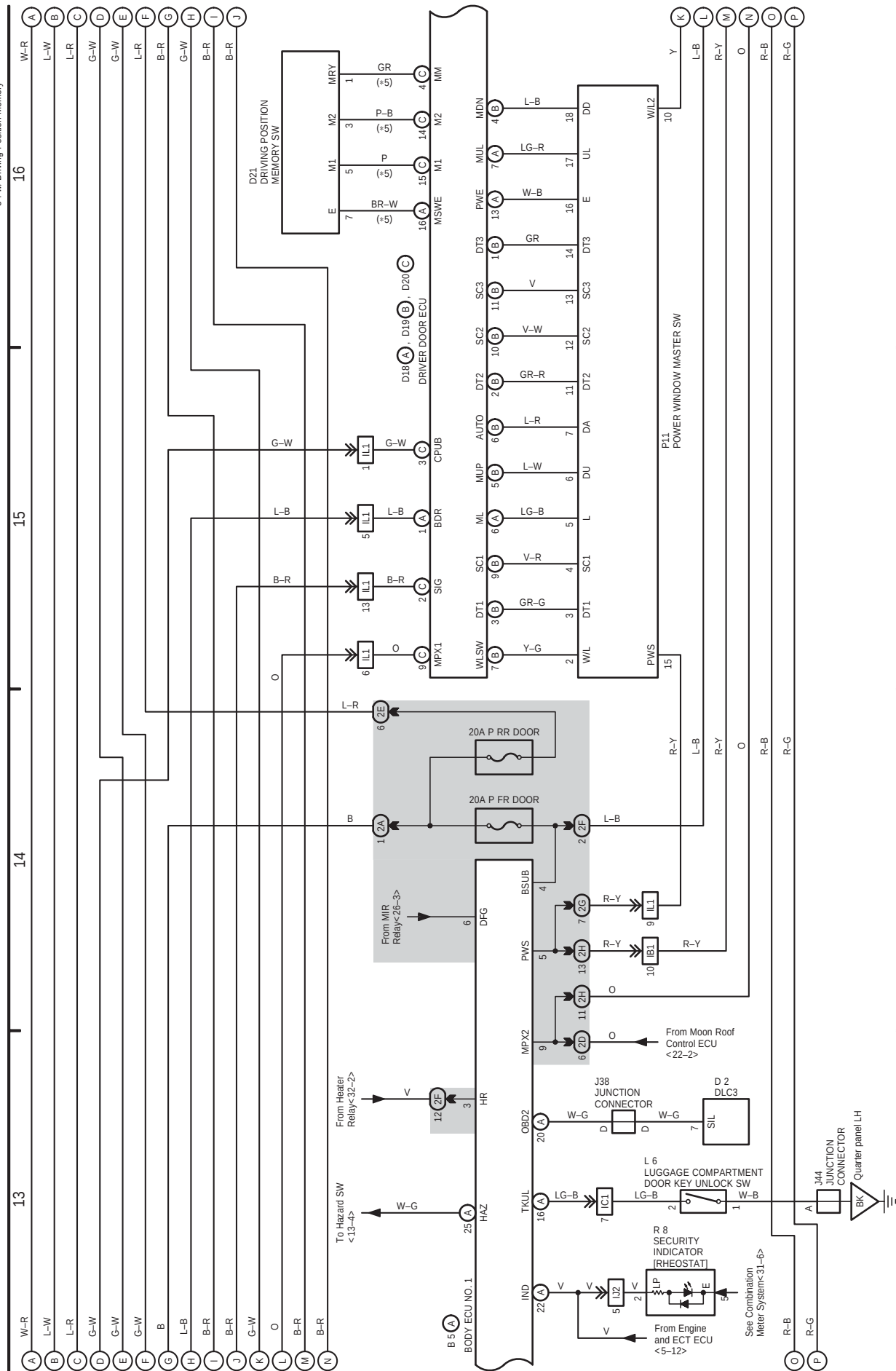




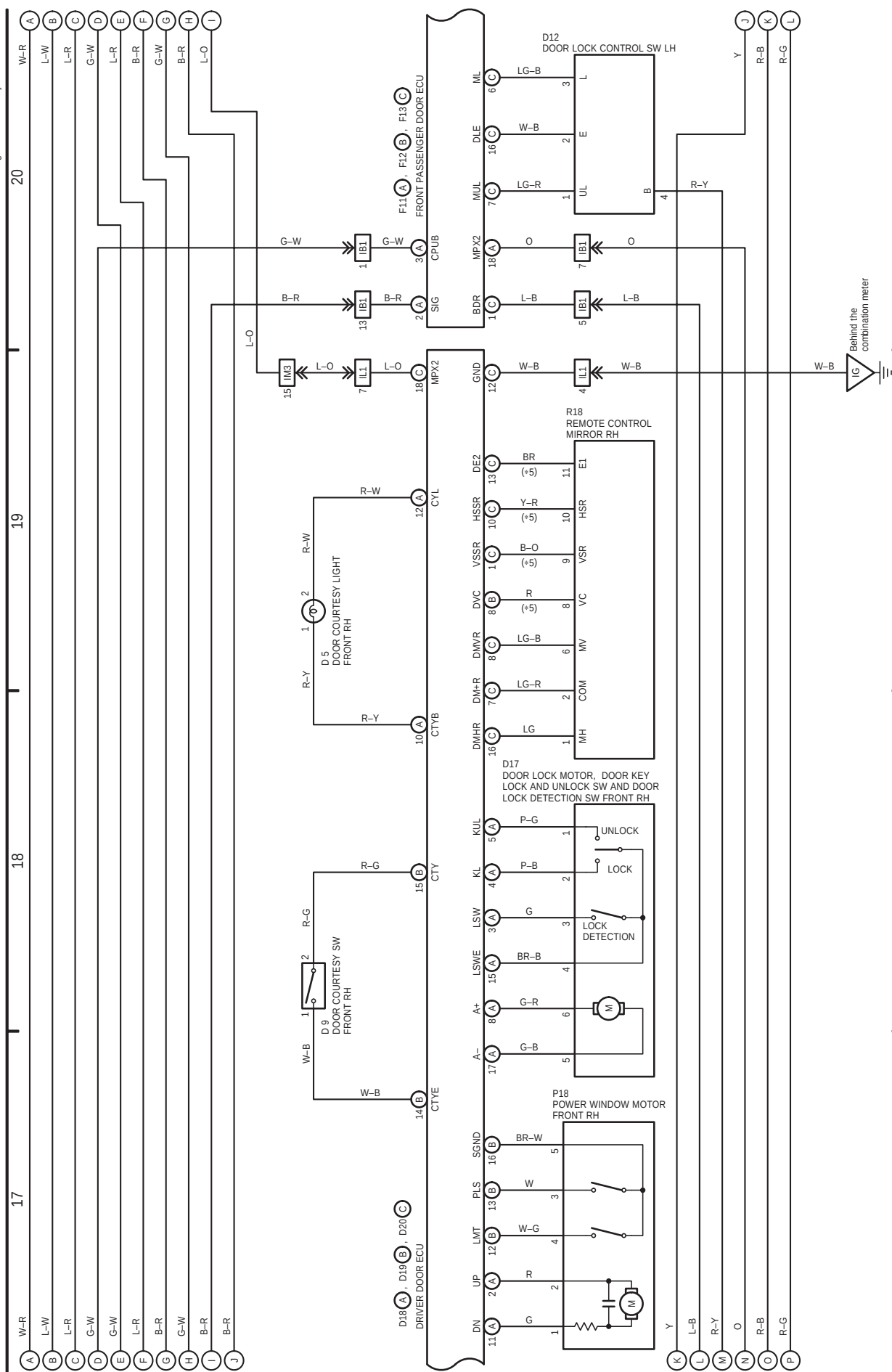
## 2 GS 300 (Cont' d)

## Multiplex Communication System (RHD)

\* 5 : w/ Driving Position Memory



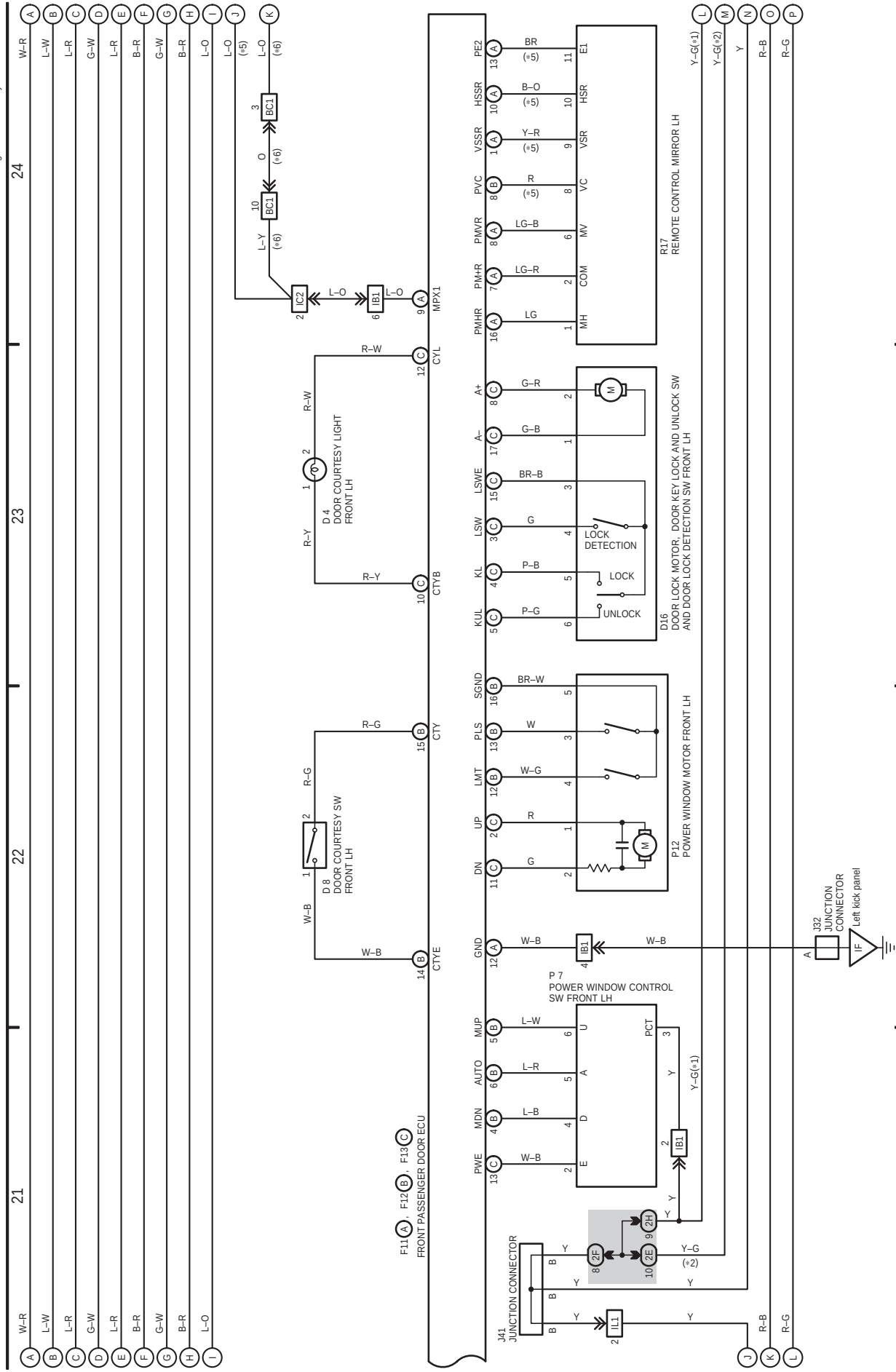
5 : w/ Driving Position Memory



## 2 GS 300 (Cont' d)

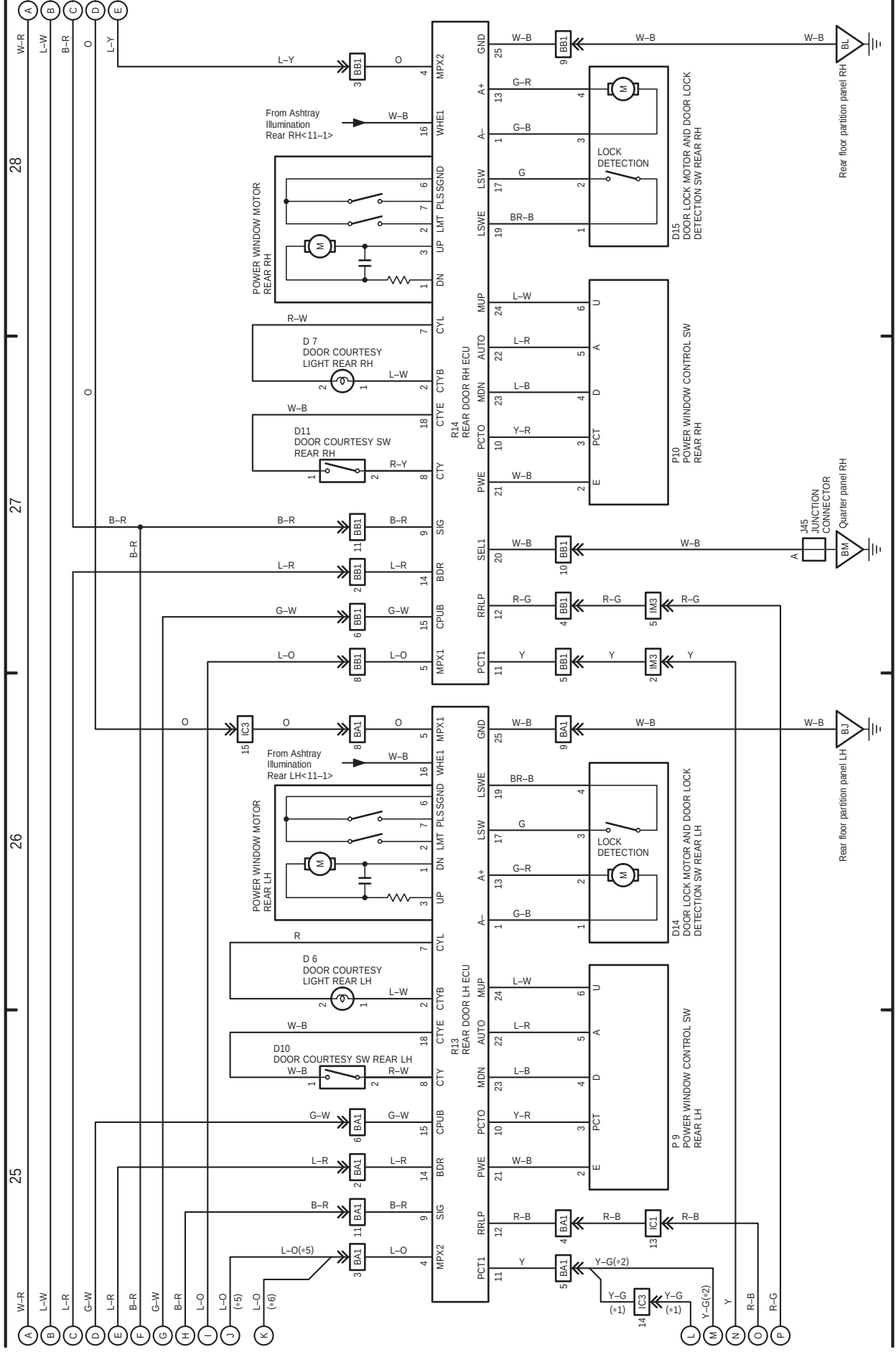
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## Multiplex Communication System (RHD)

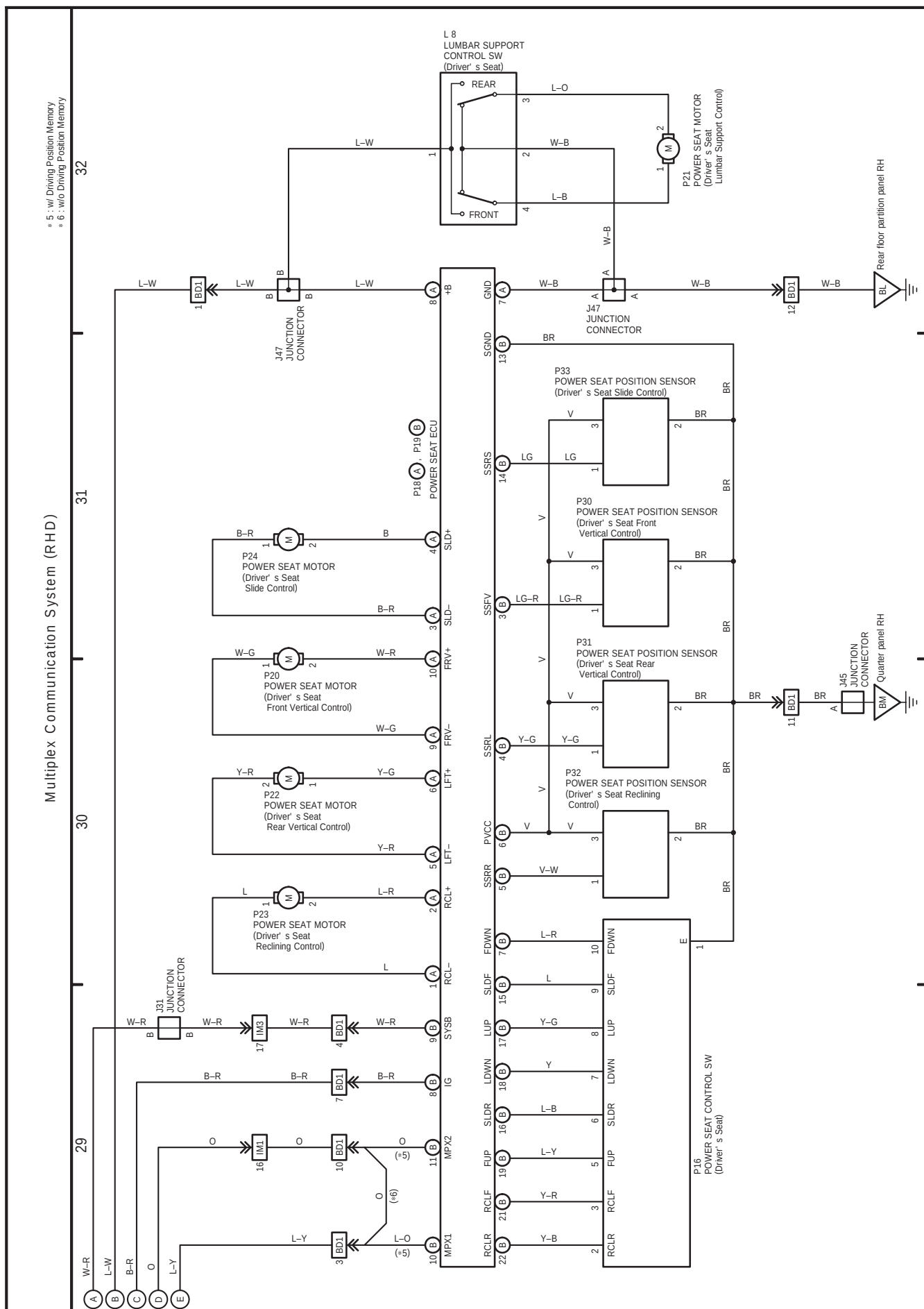


## Multiplex Communication System (RHD)

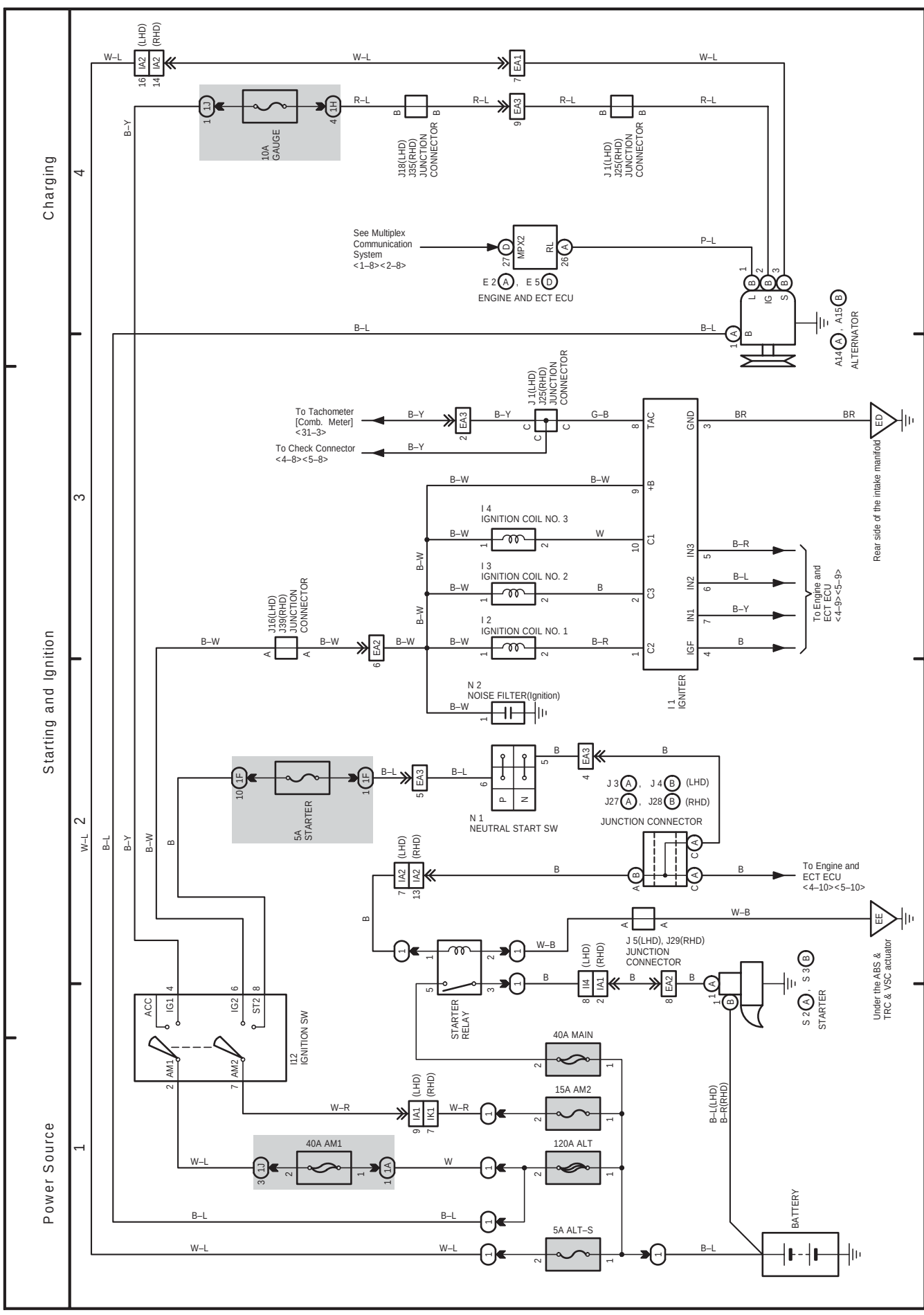
- \* 1 : Europe
- \* 2 : Australia
- \* 5 : w/ Driving Position Memory
- \* 6 : w/o Driving Position Memory

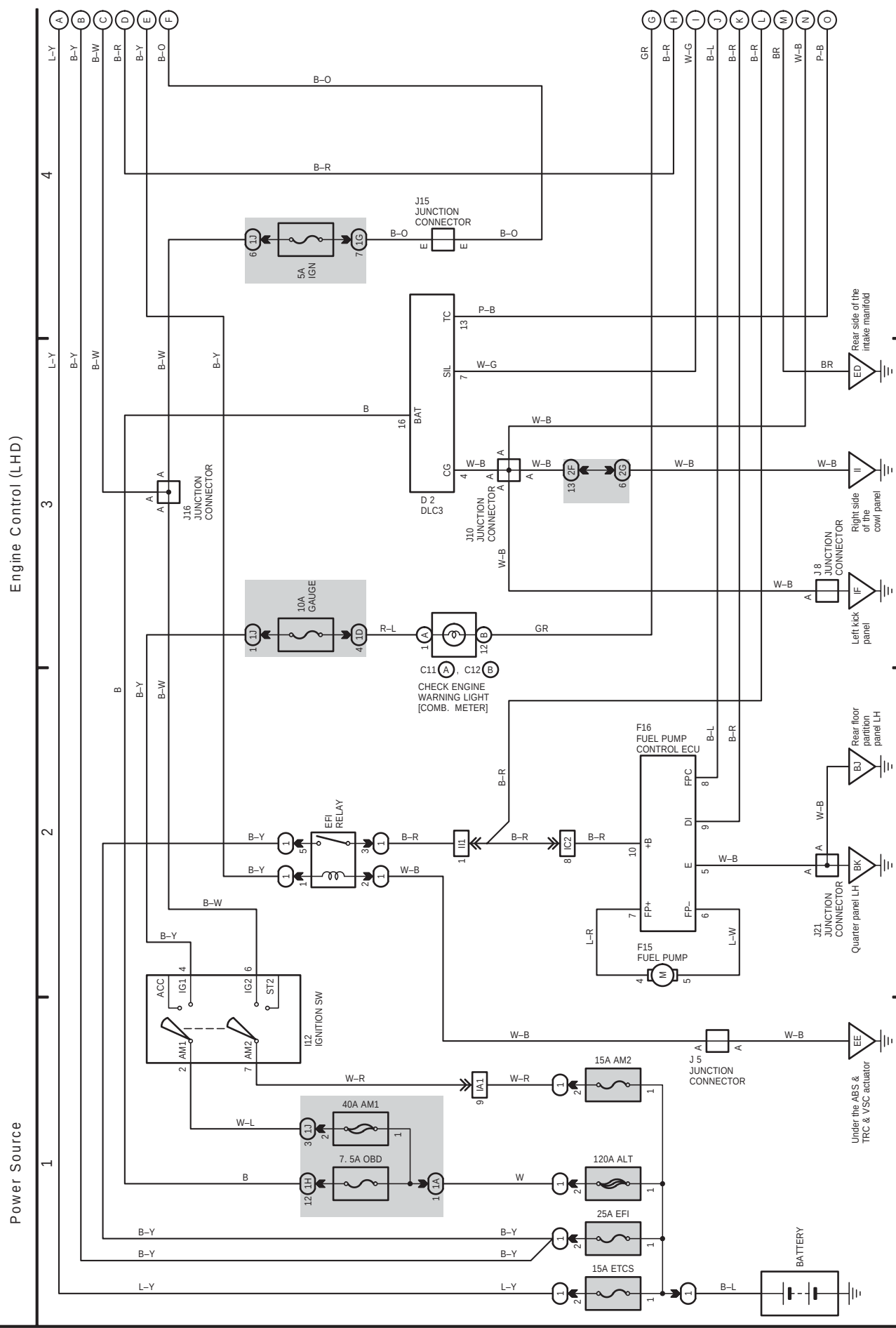


## 2 GS 300 (Cont' d)

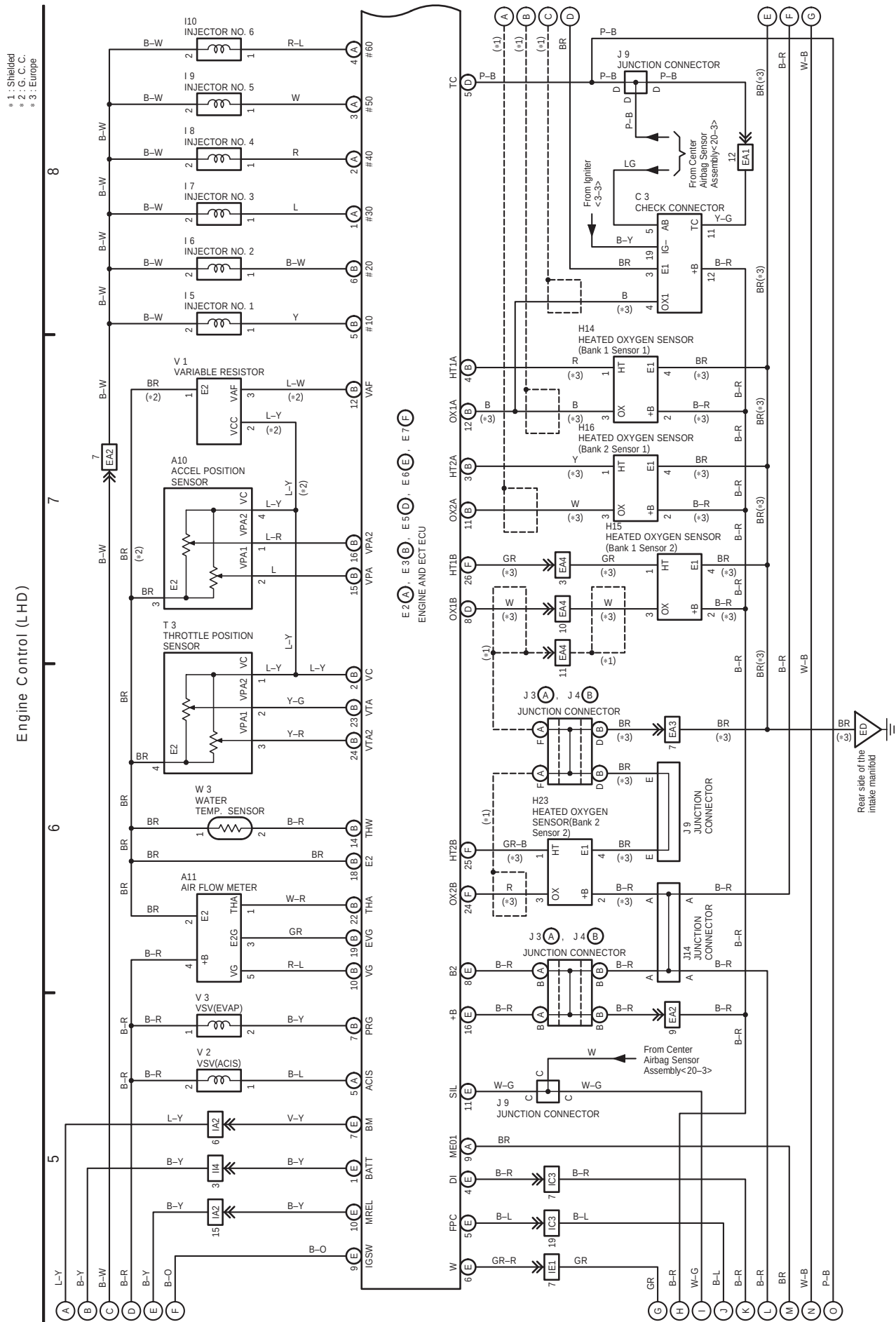


3 GS 300





## 4 GS 300 (Cont' d)





# 4 GS 300 (Cont' d)

## Engine Control (LHD)

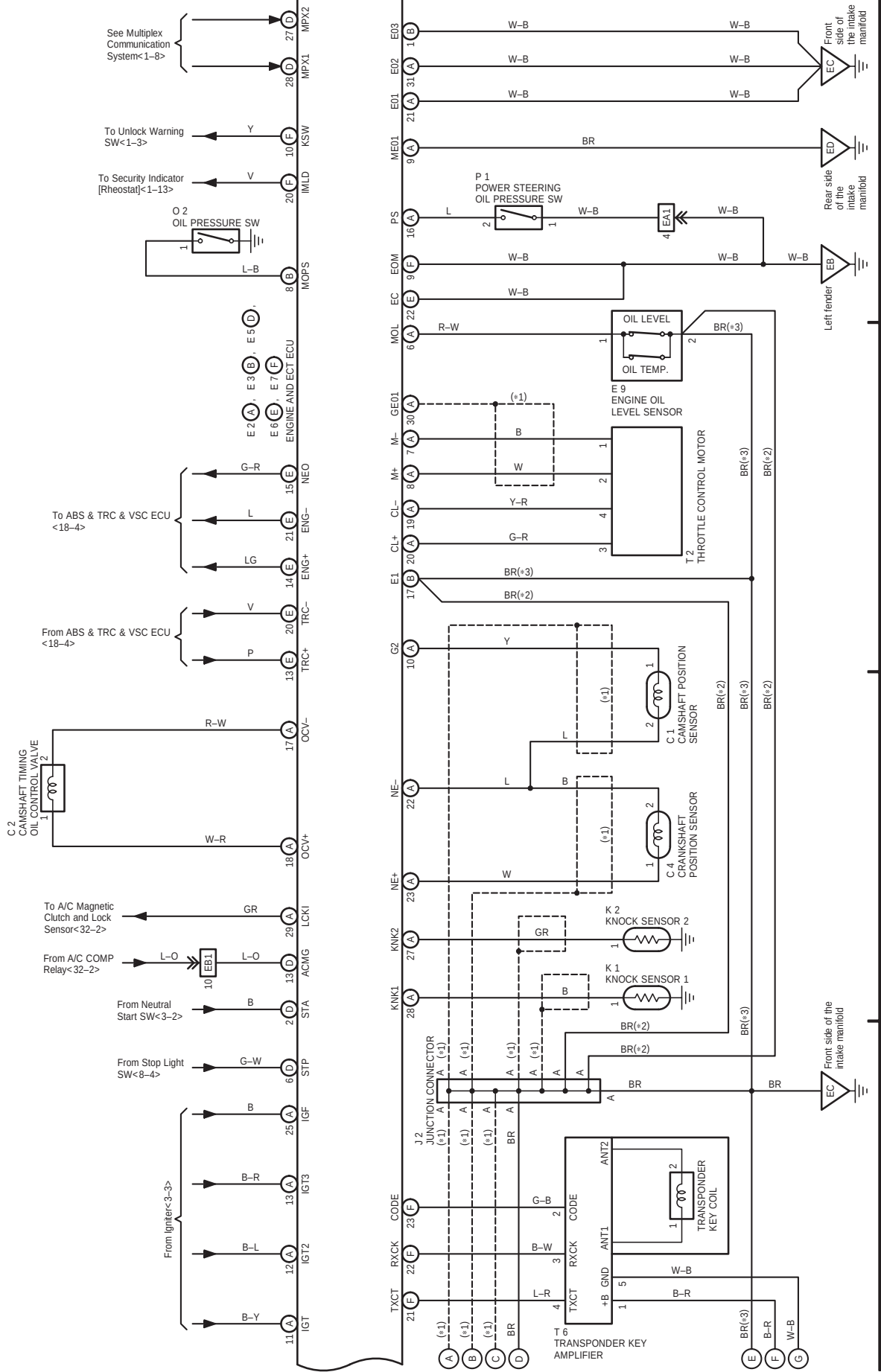
\* 1 : Shielded  
\* 2 : G. C. C.  
\* 3 : Europe

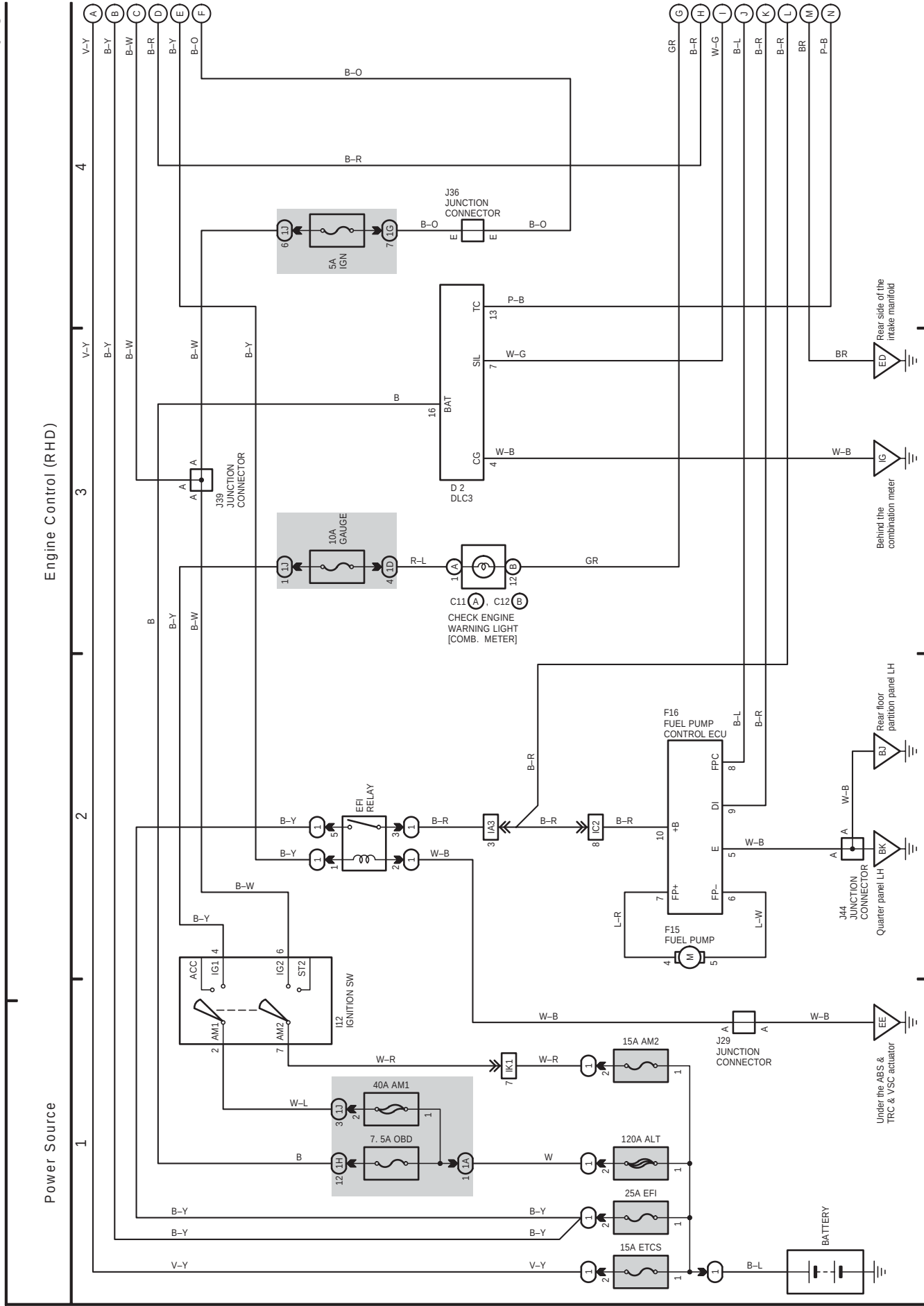
12

11

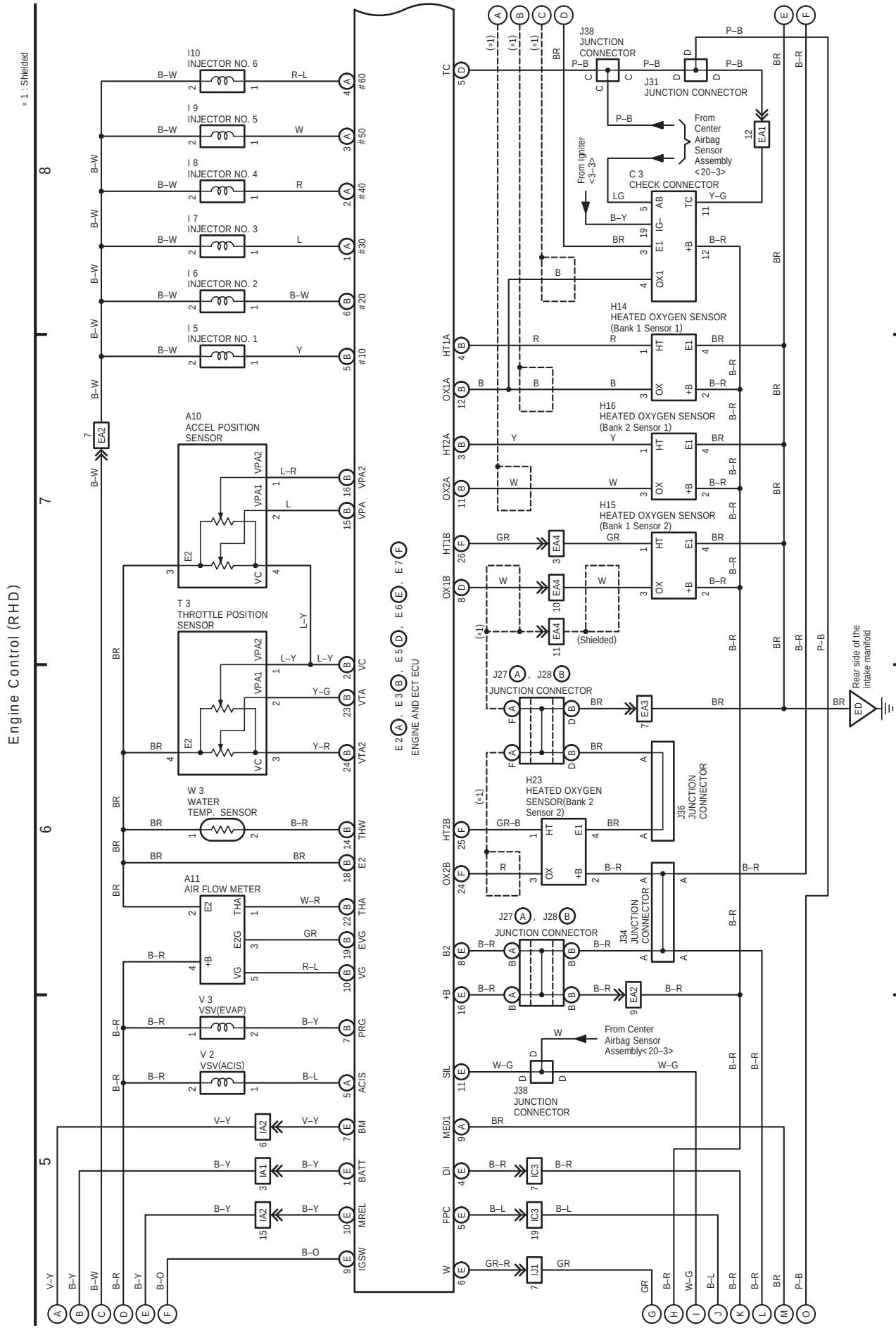
10

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### 5 GS 300 (Cont' d)



Engine Control (RHD)

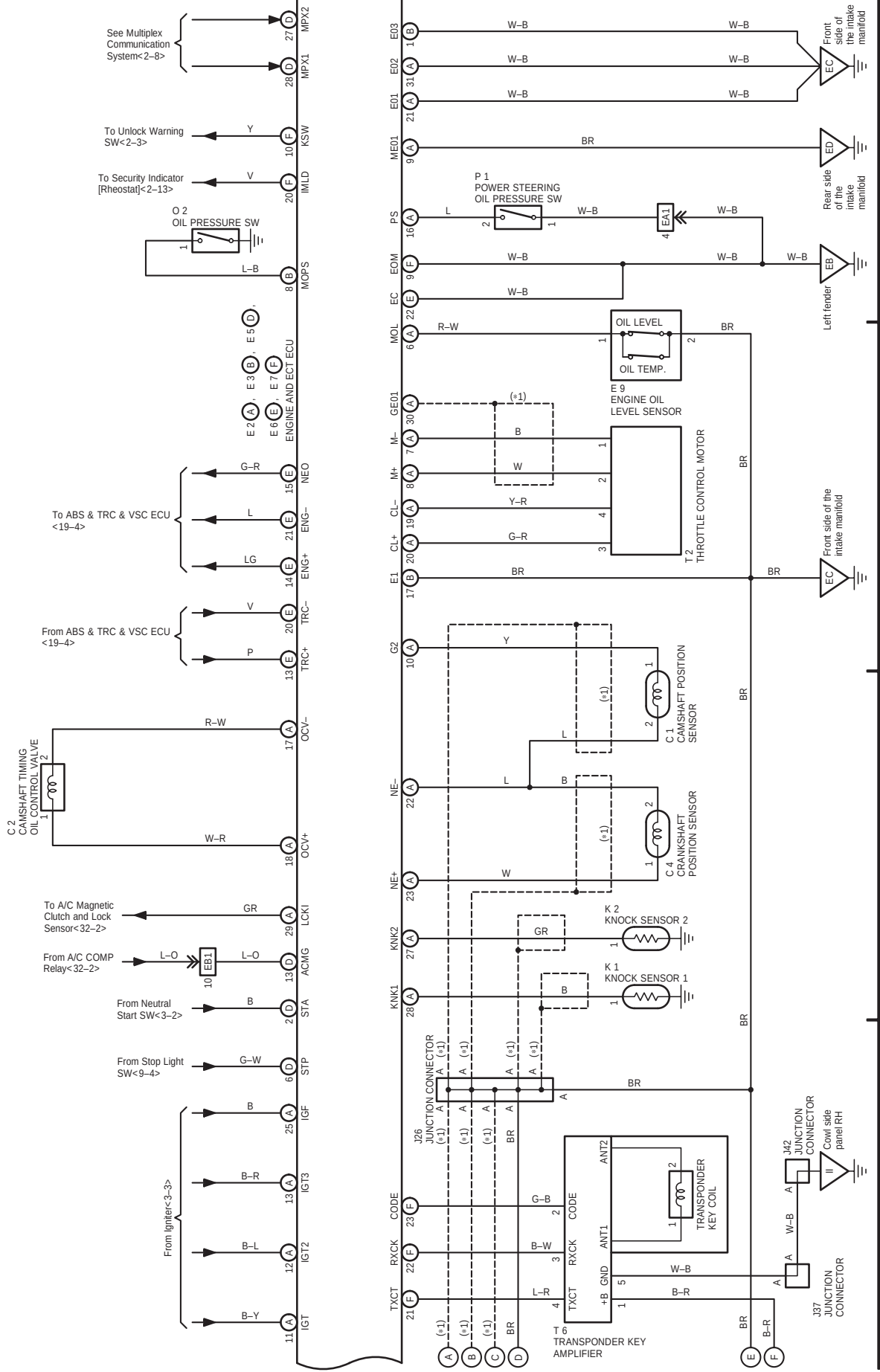
\* 1 : Shielded

12

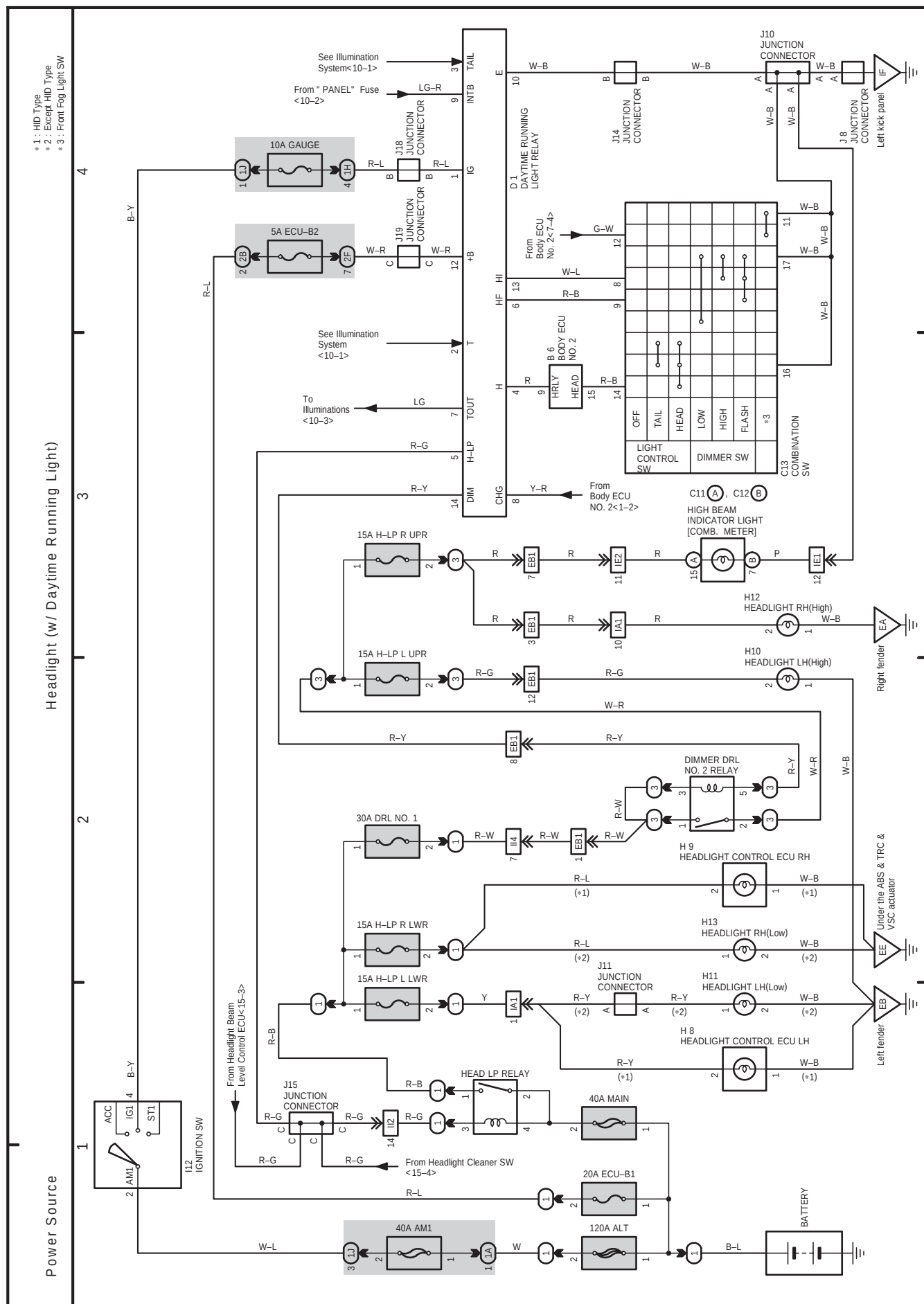
11

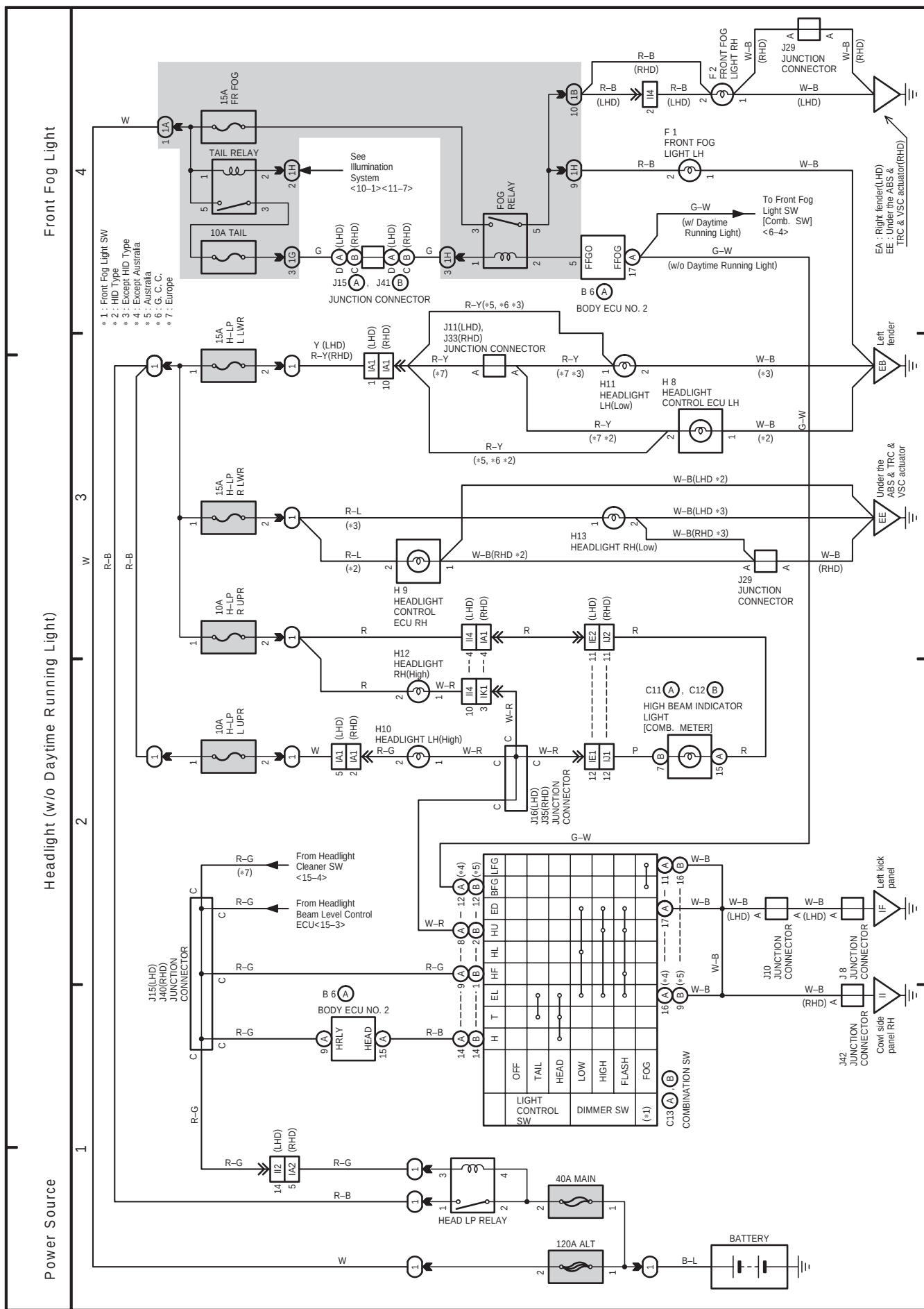
10

9

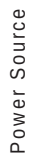


## 6 GS 300

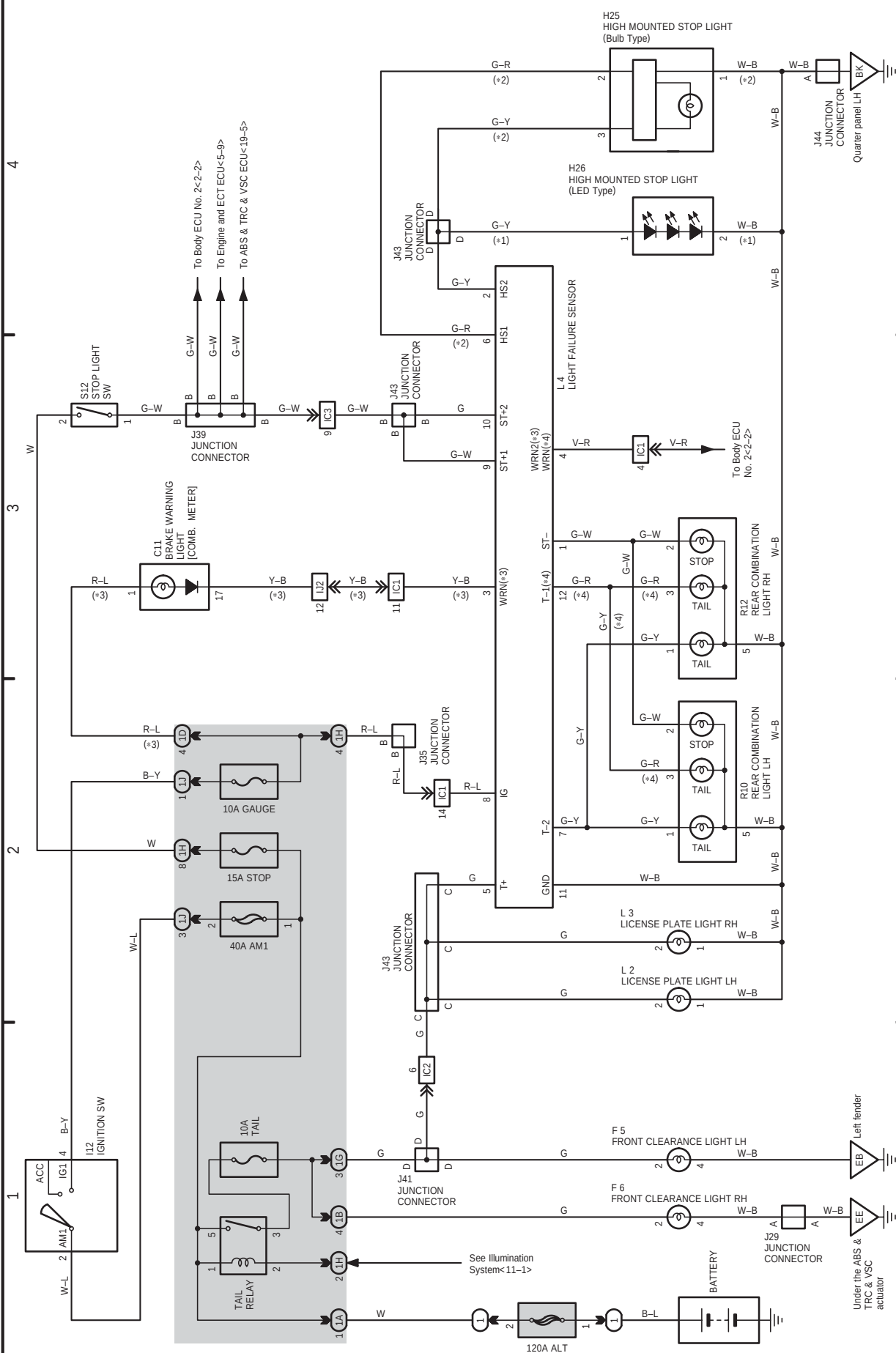




## 8 GS 300



### Taillight and Stop Light (RHD)





# K OVERALL ELECTRICAL WIRING DIAGRAM

10 GS 300

Power Source

Illumination (LHD)

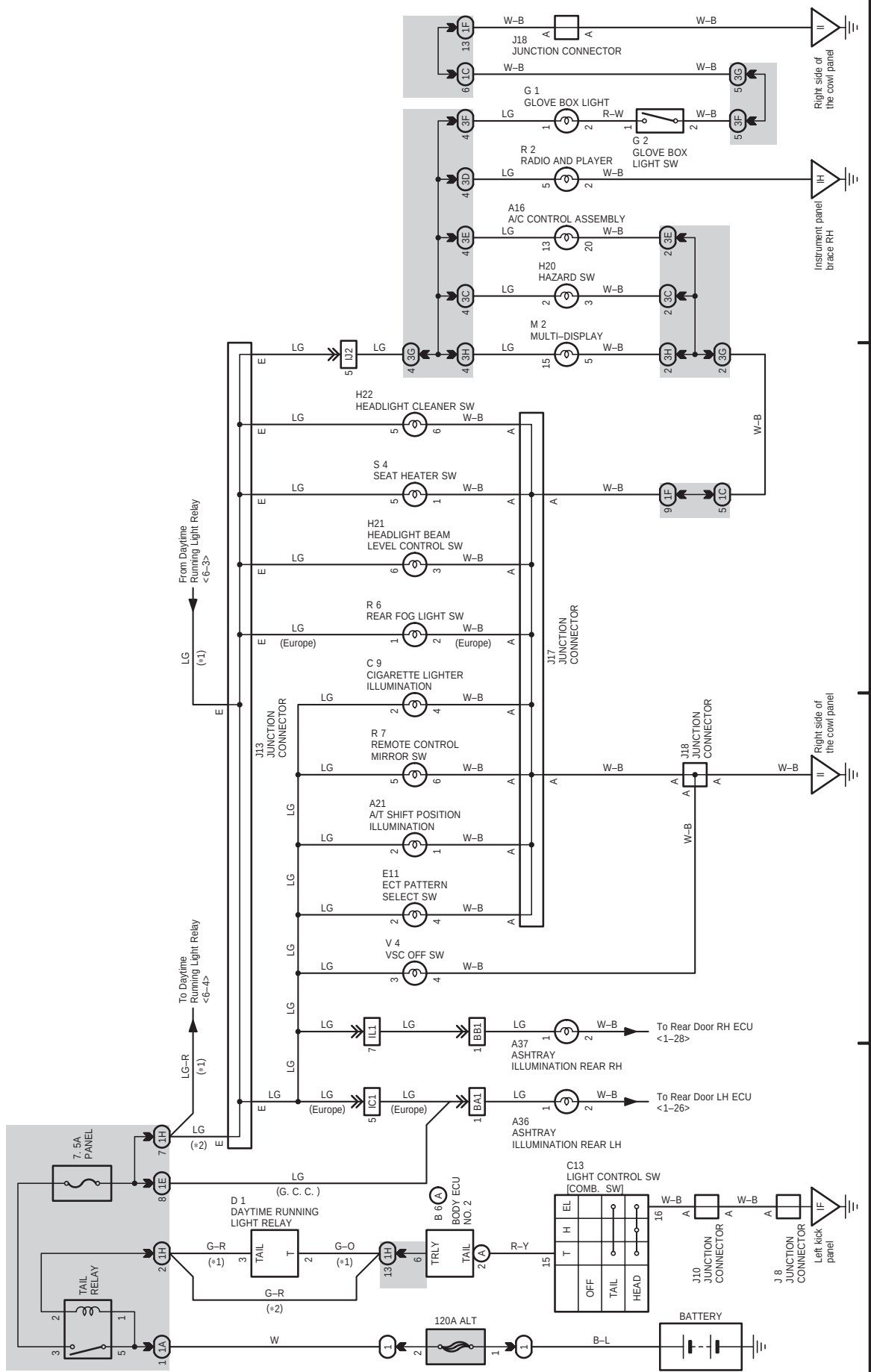
\* 1 : w/ Daytime Running Light  
\* 2 : w/o Daytime Running Light

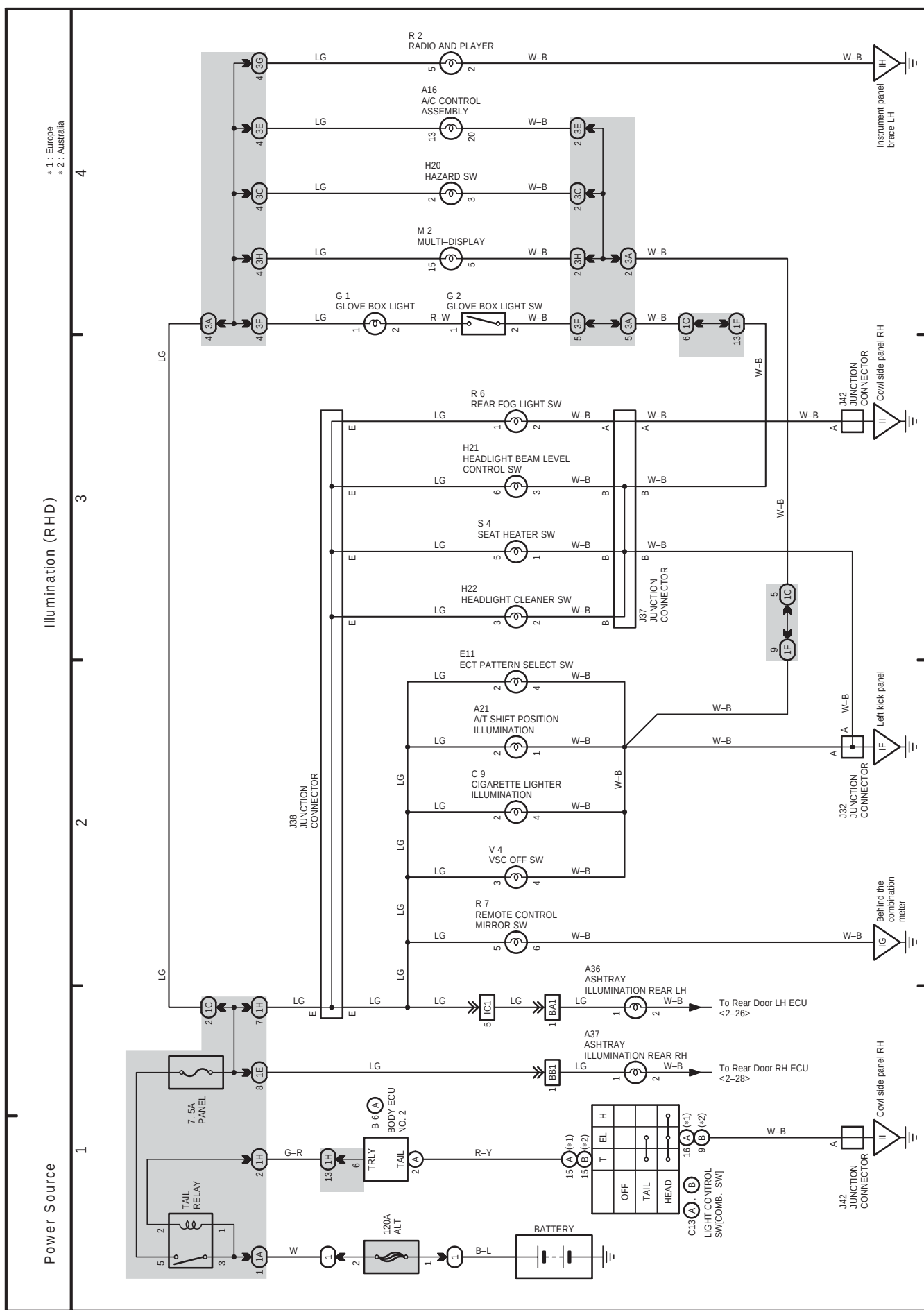
4

3

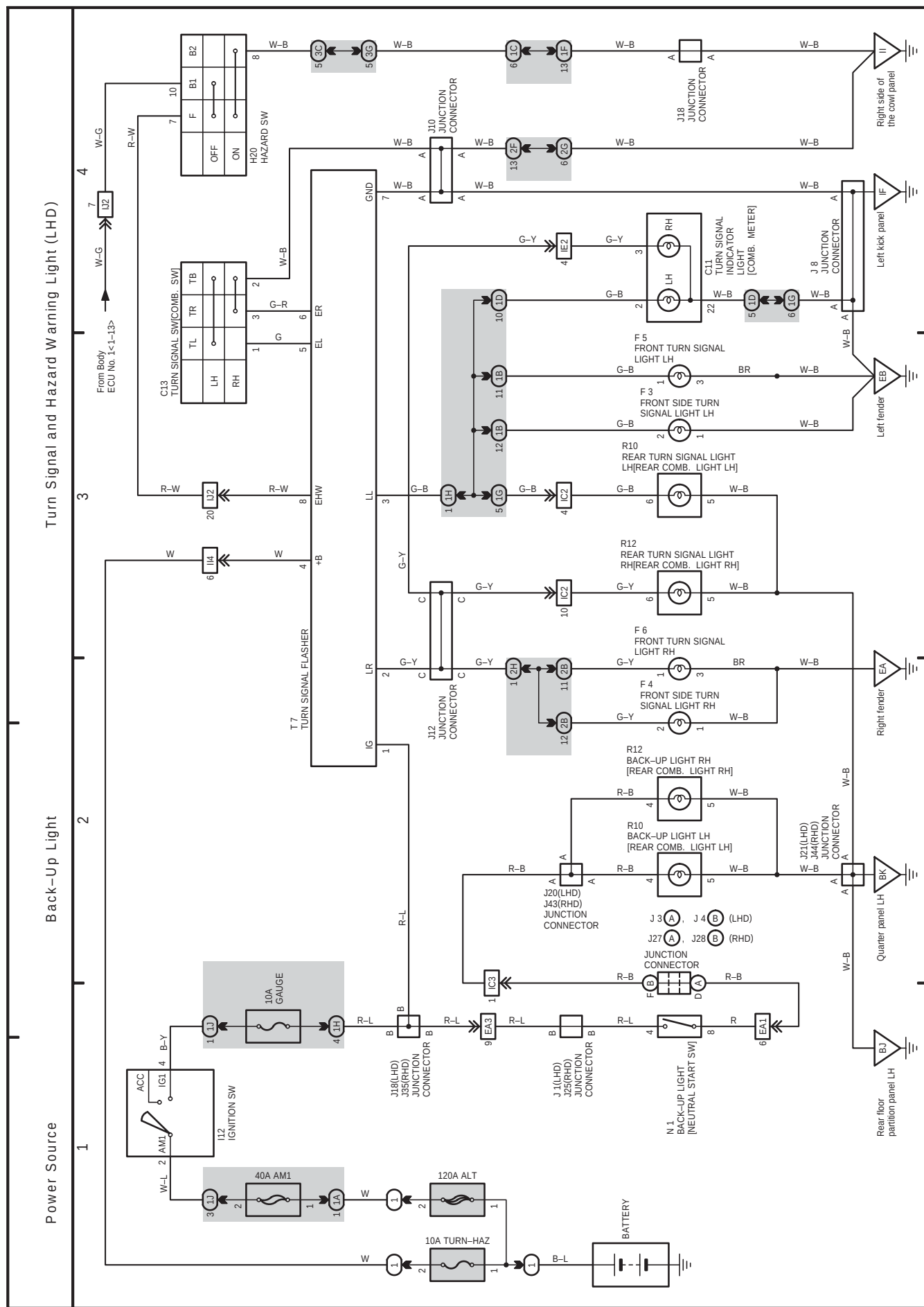
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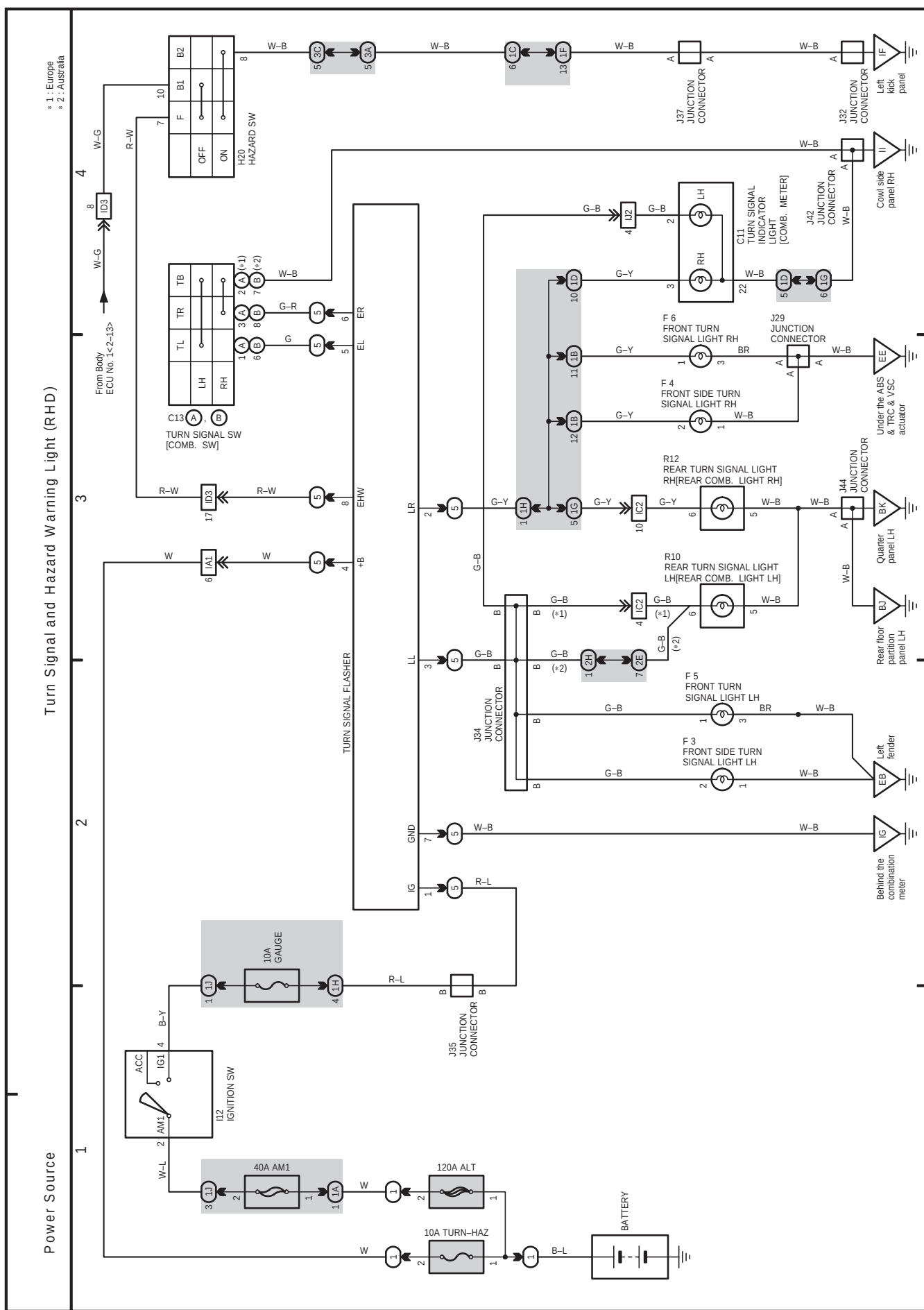
1





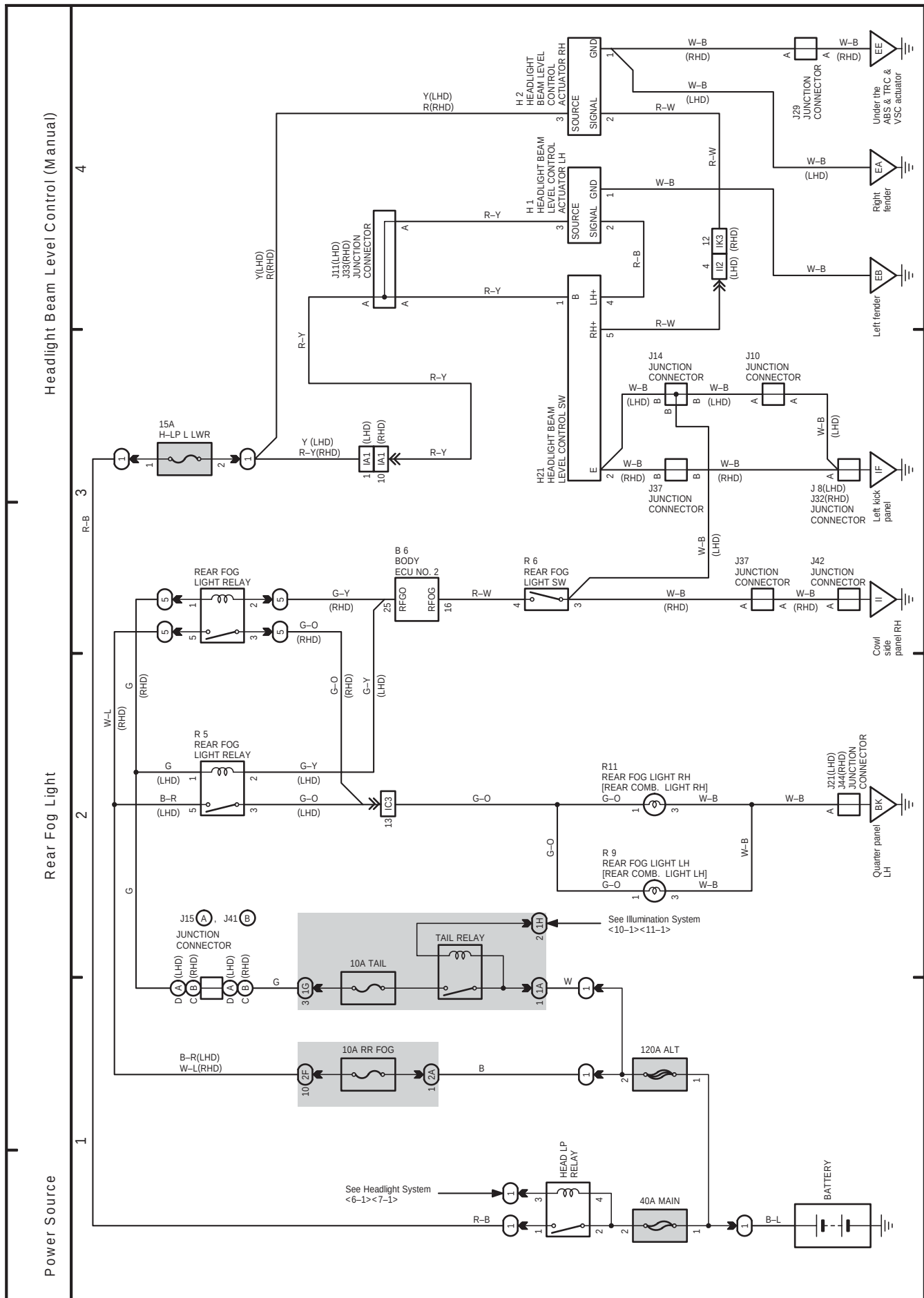
# 12 GS 300





# K OVERALL ELECTRICAL WIRING DIAGRAM

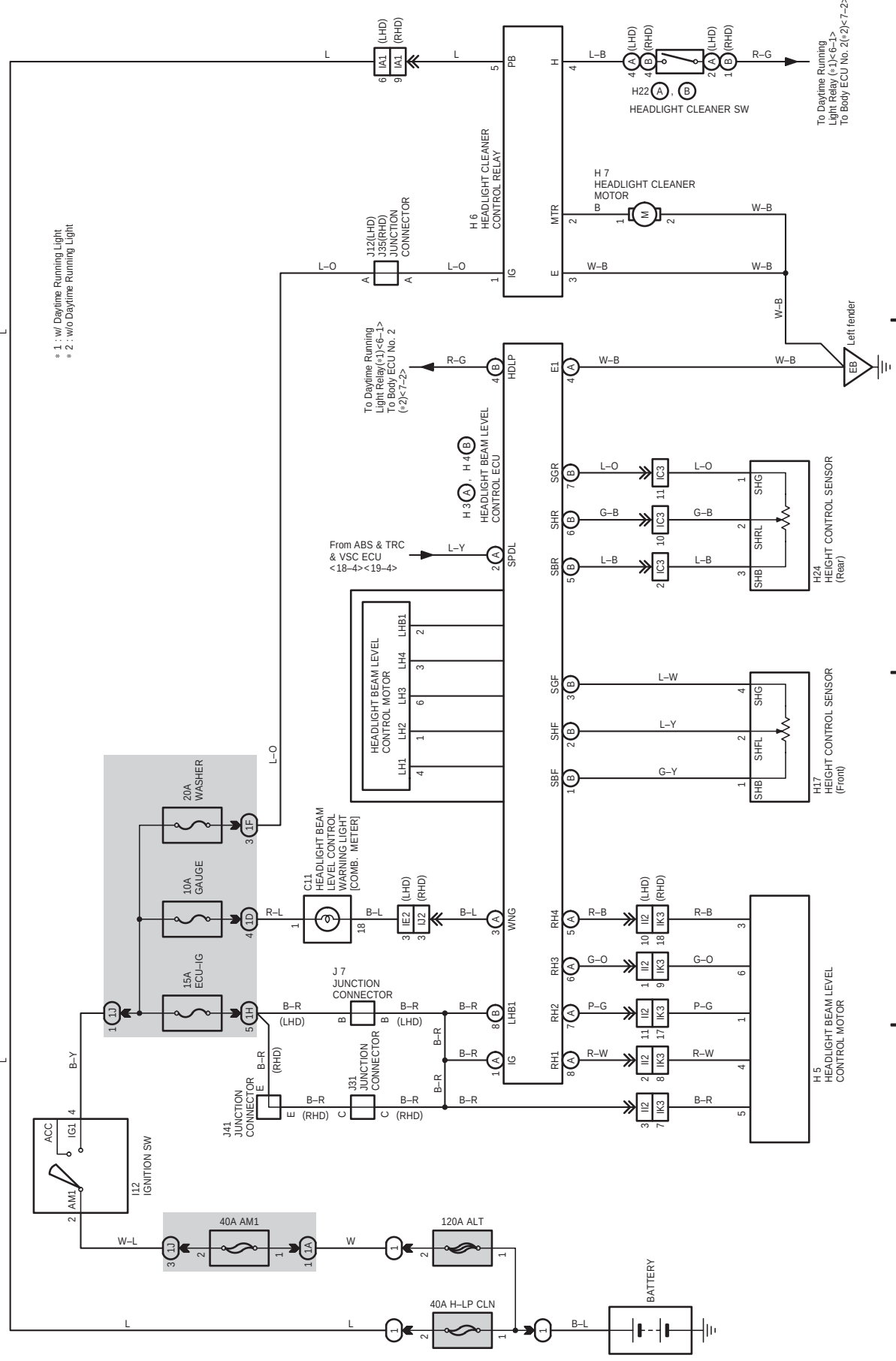
14 GS 300



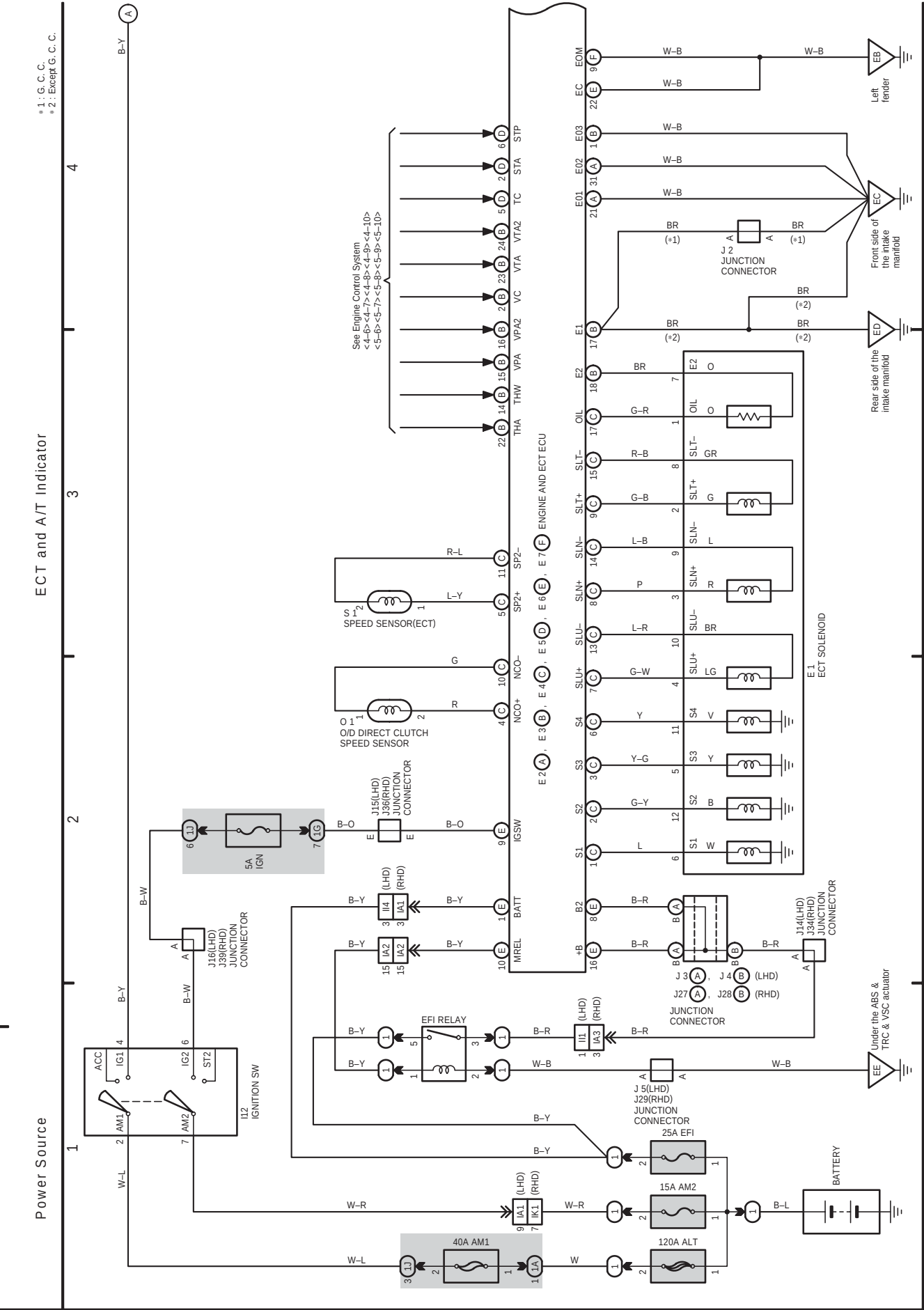
## Power Source

## Headlight Beam Level Control (Automatic)

## Headlight Cleaner

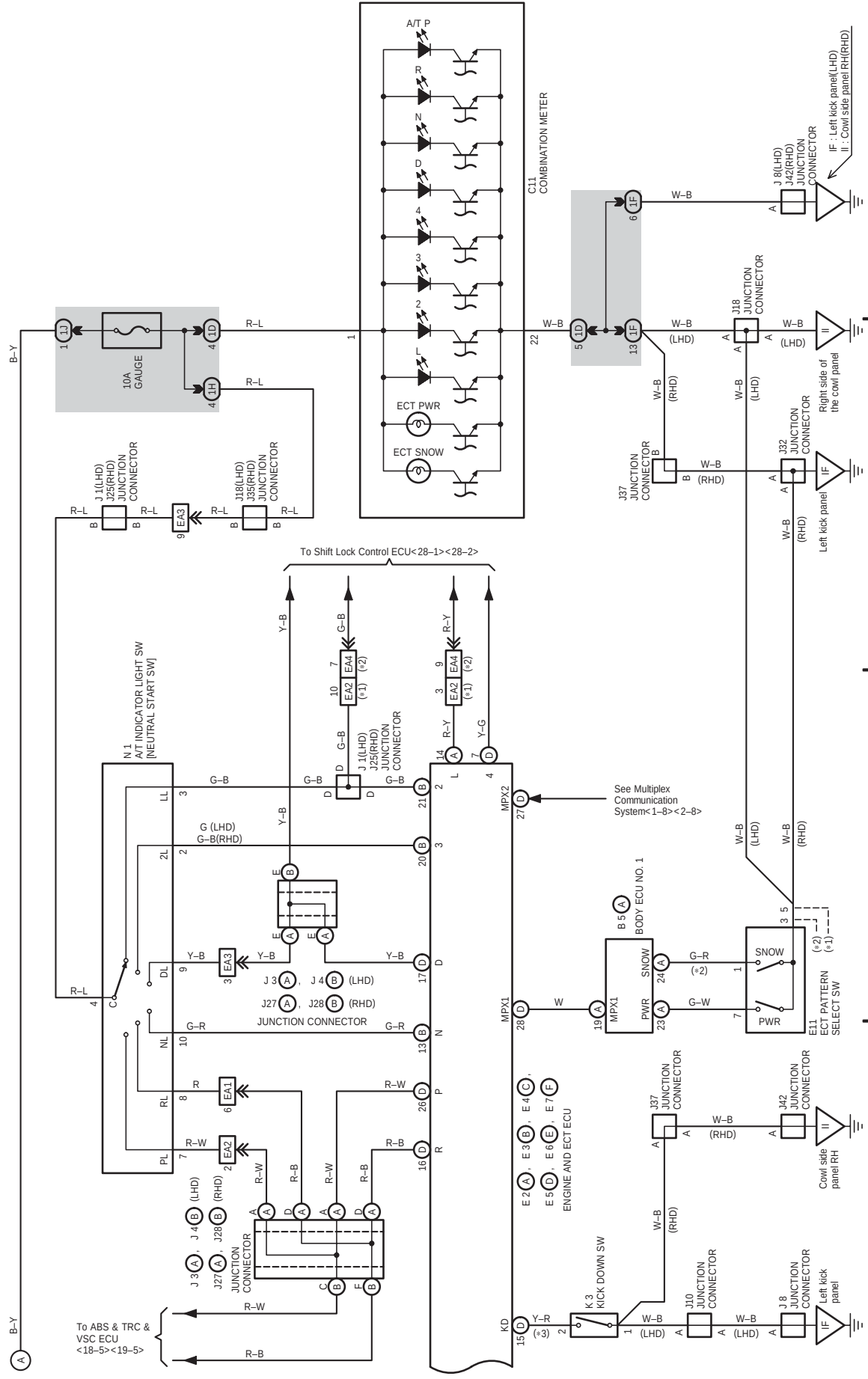


## K OVERALL ELECTRICAL WIRING DIAGRAM



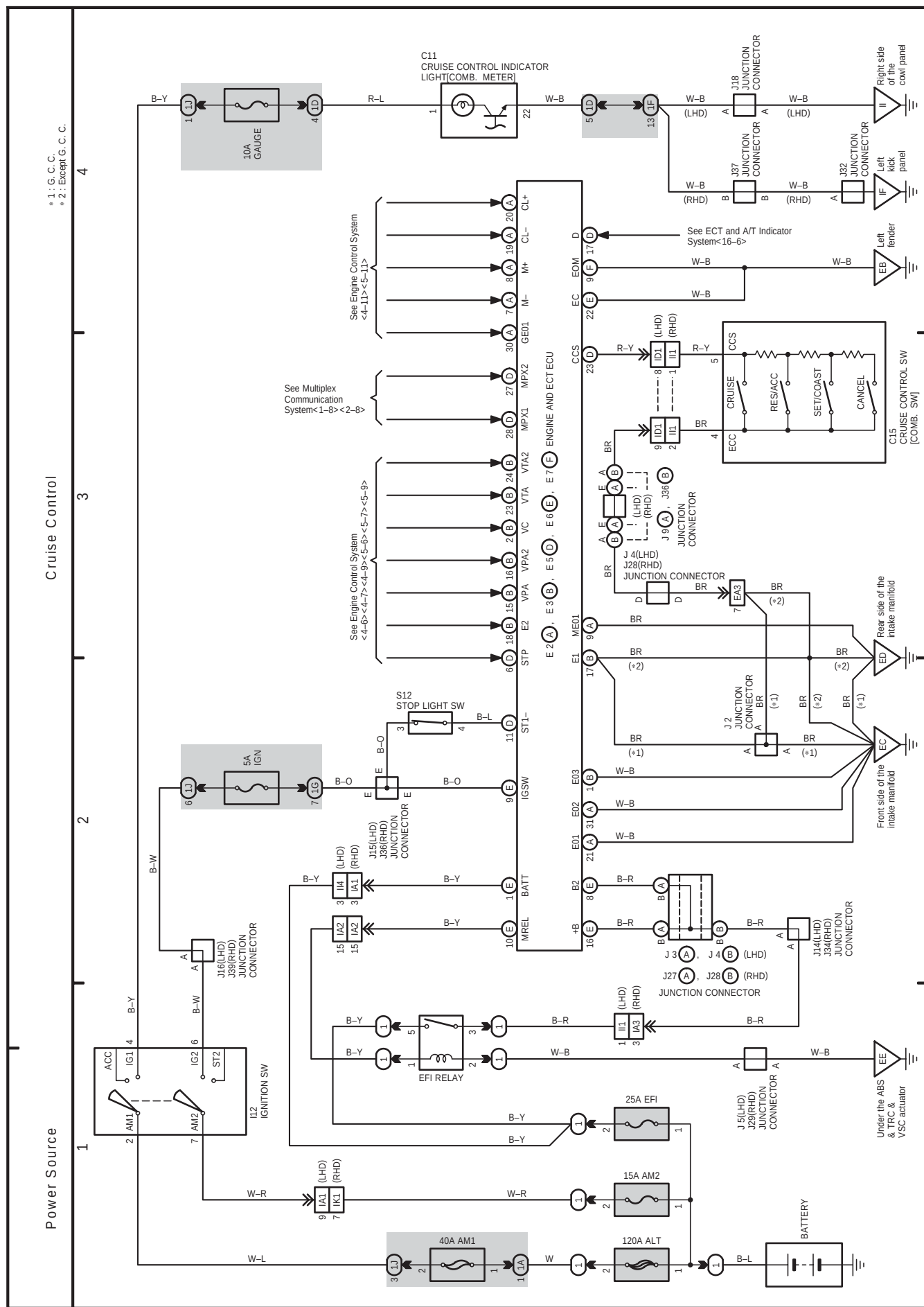
# ECT and A/T Indicator

\* 1 : G. C. C.  
\* 2 : Except G. C. C.  
\* 3 : Europe



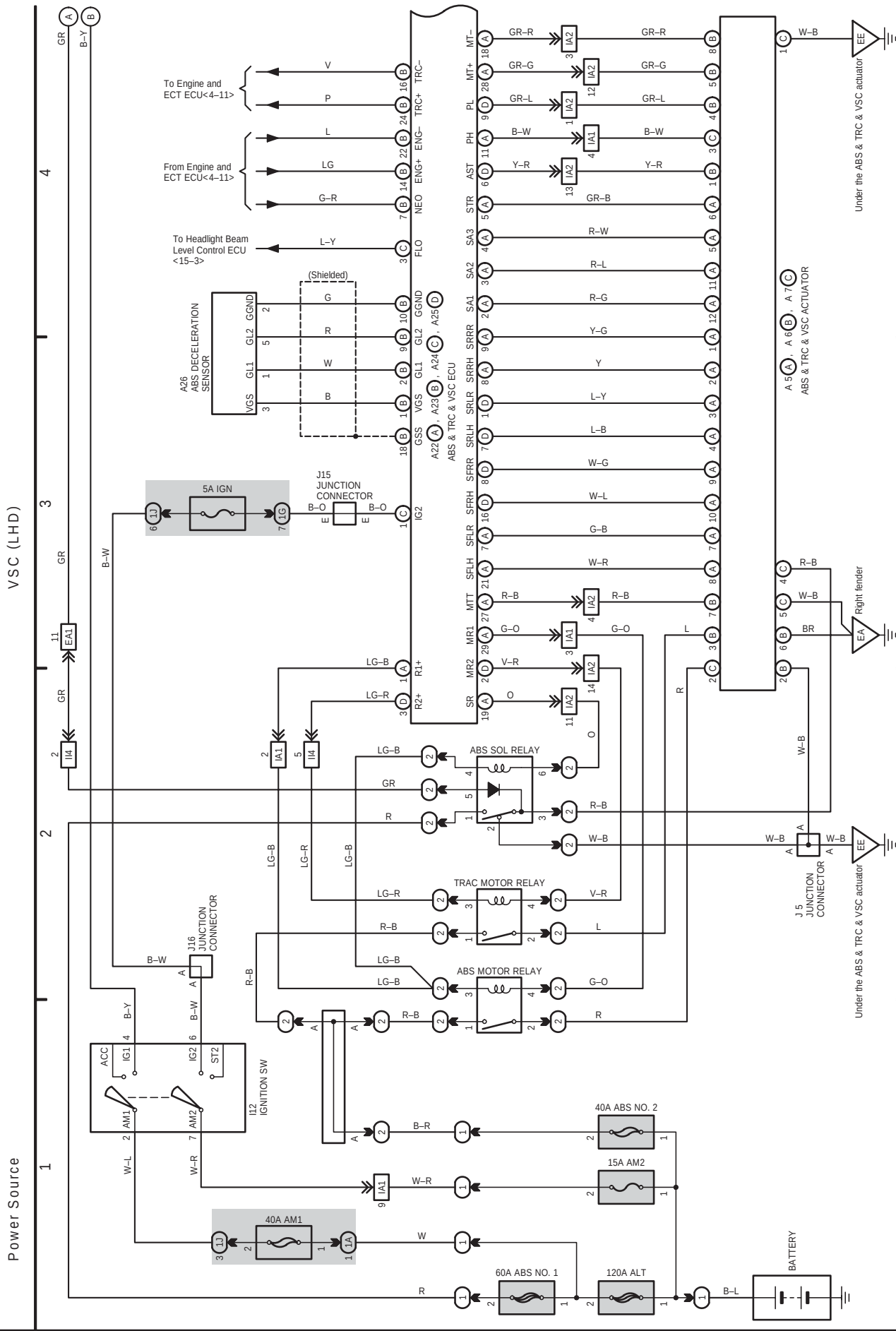


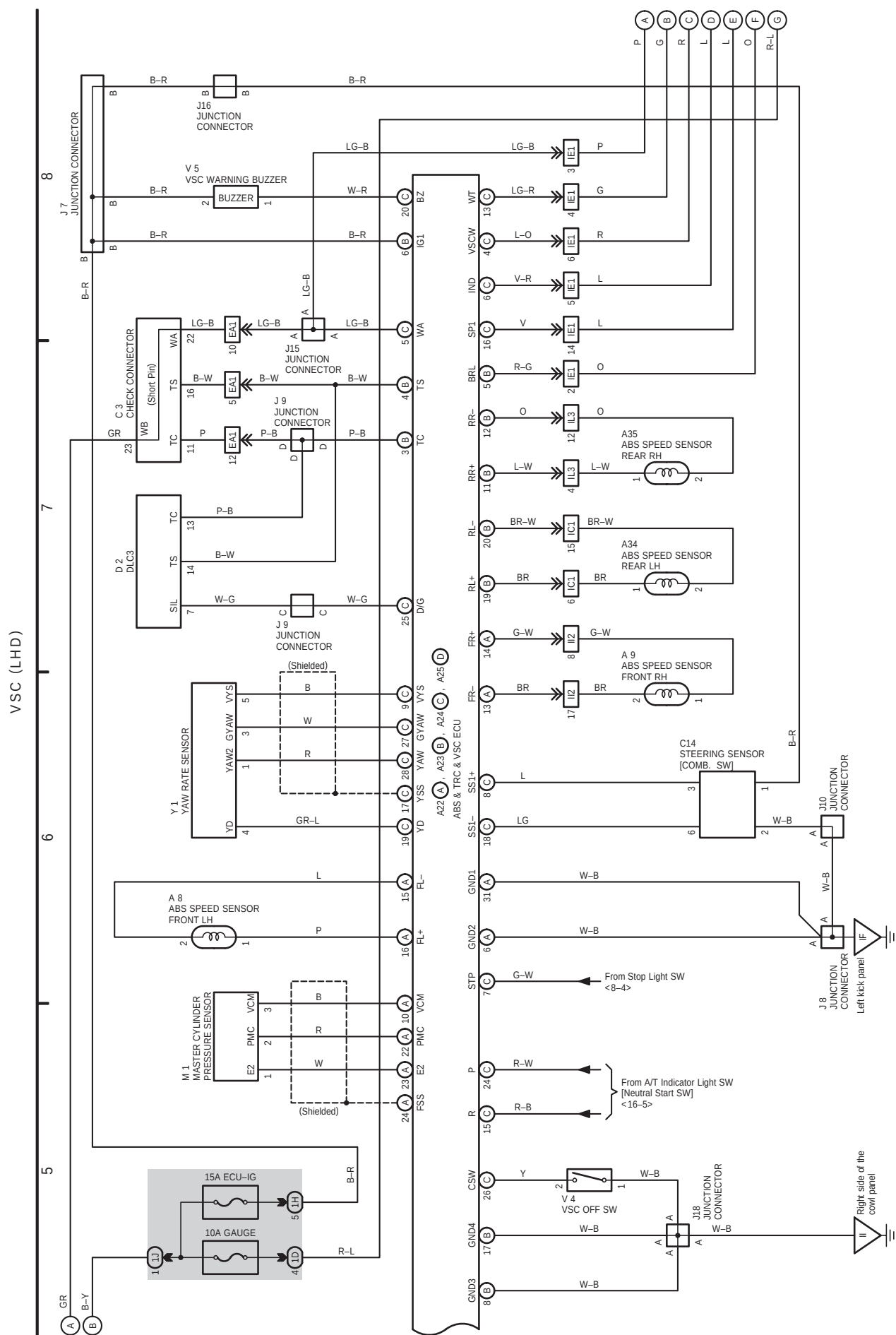
## 17 GS 300



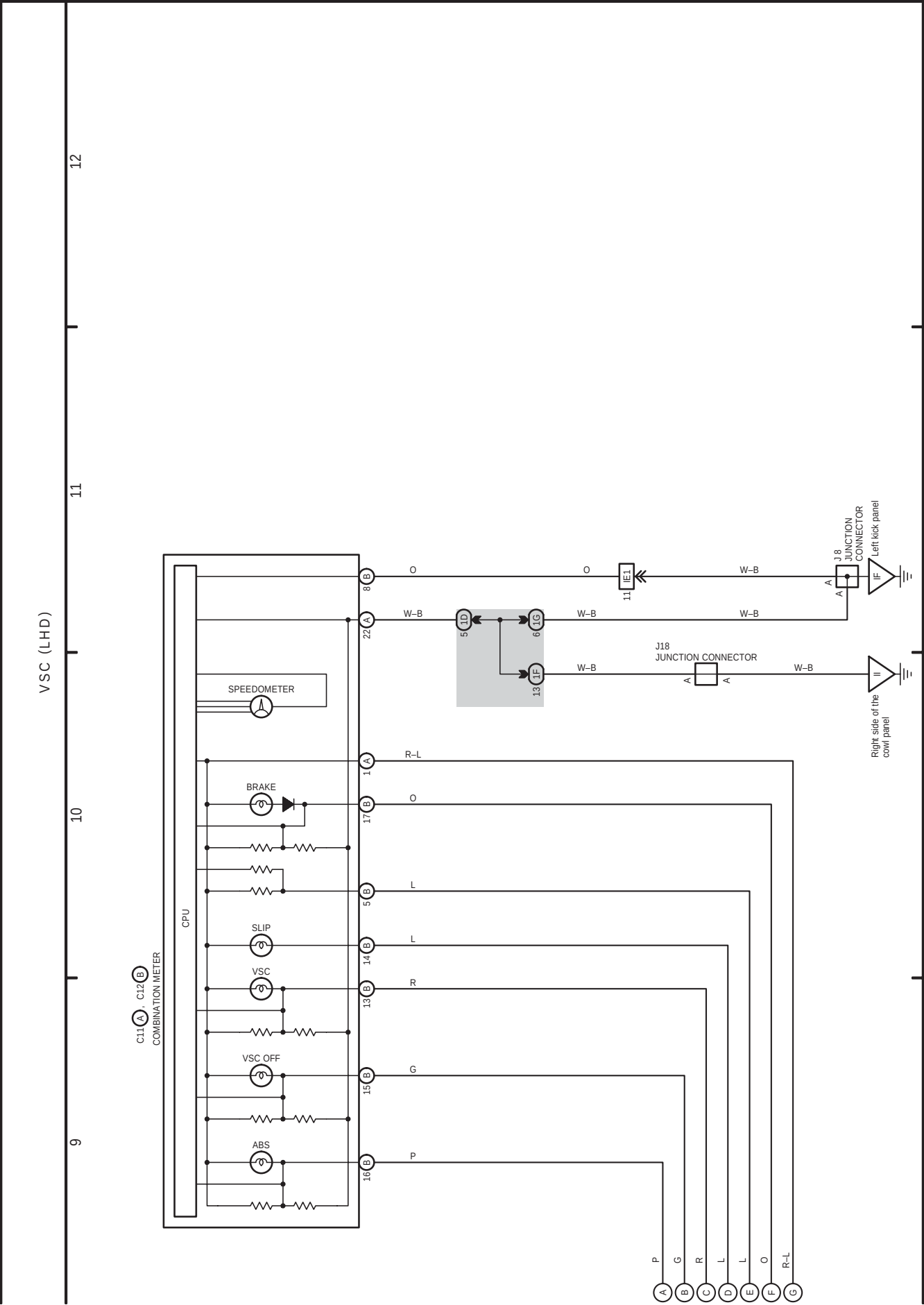
(Cont. next page)

# 18 GS 300

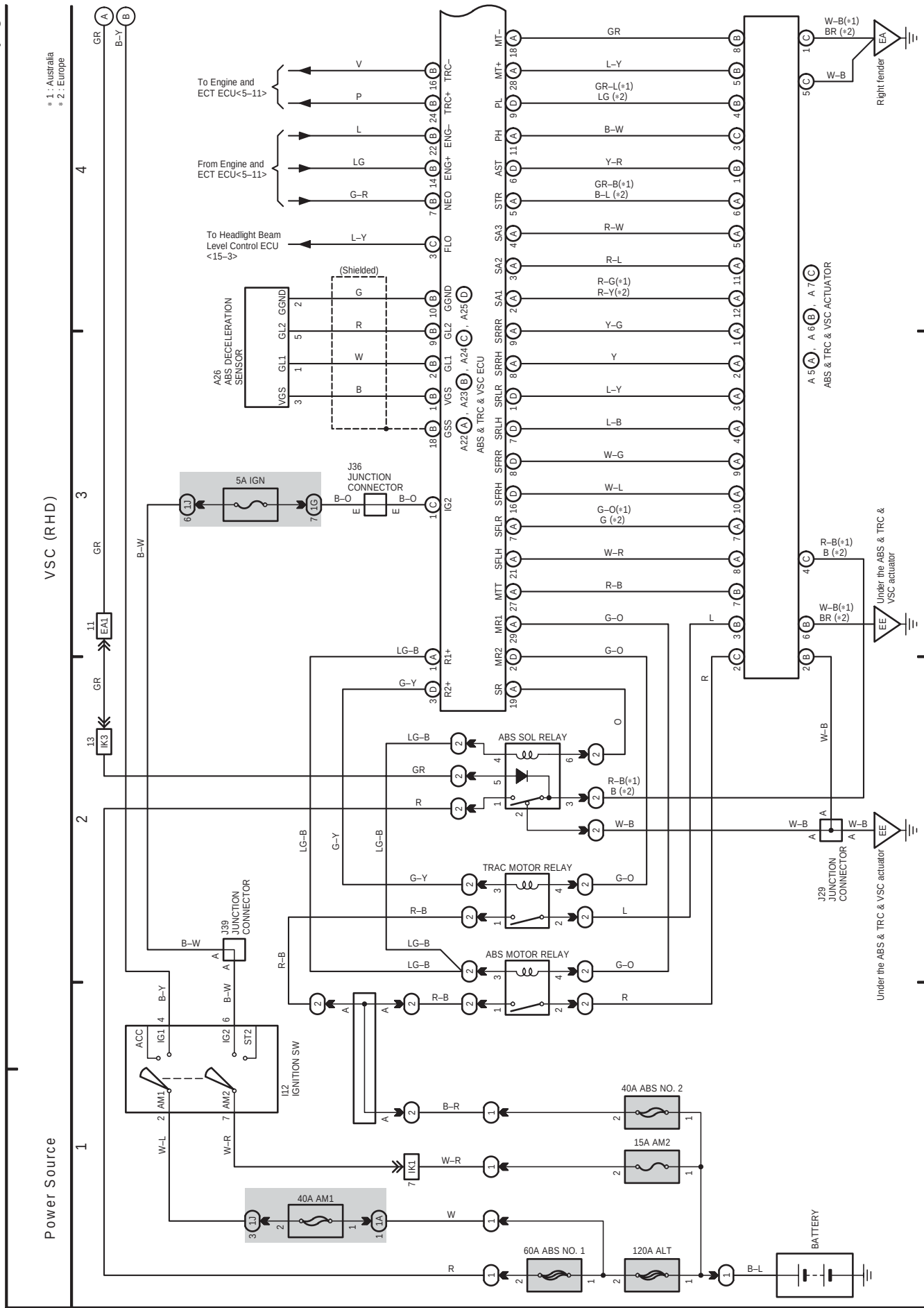




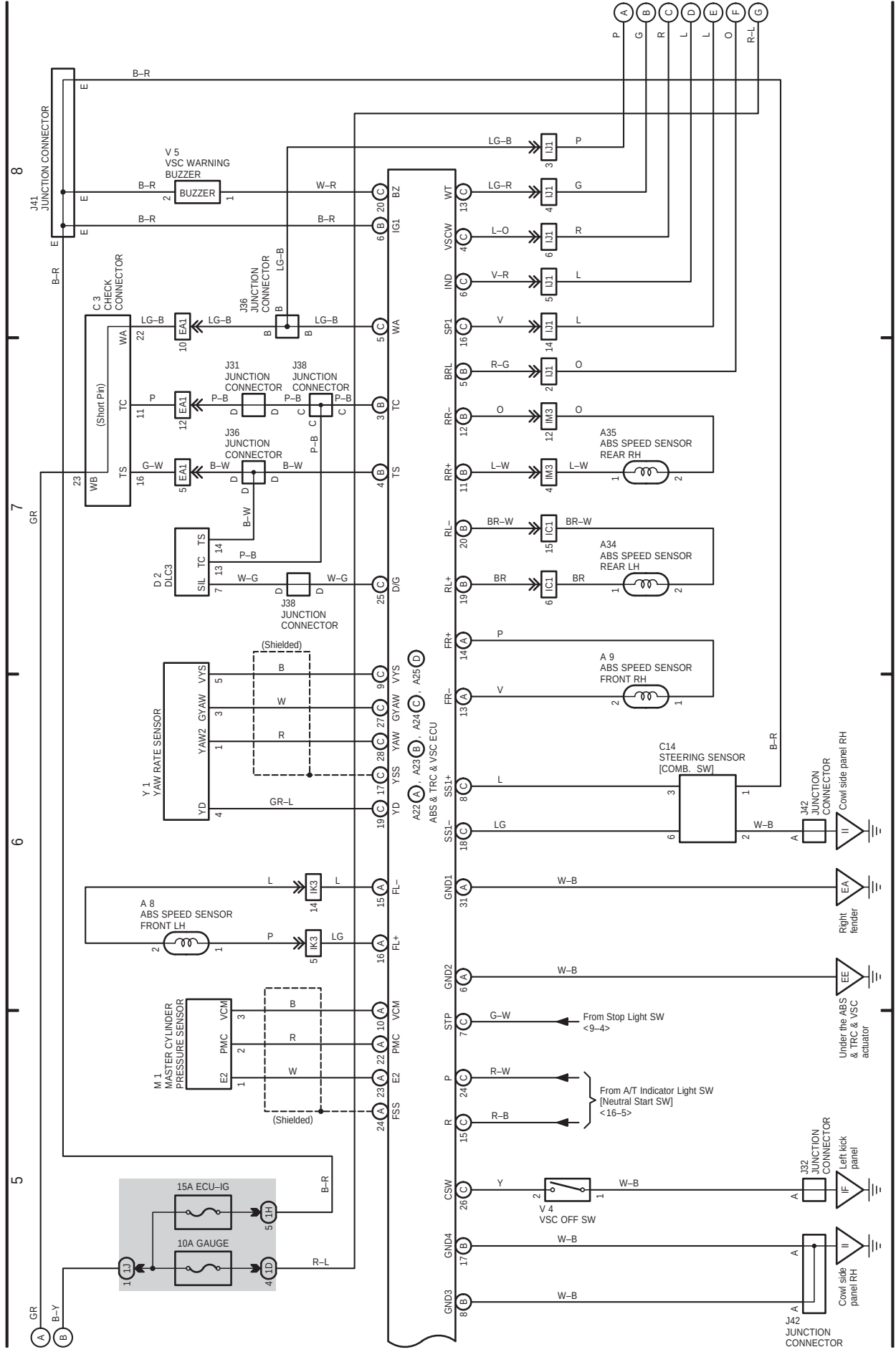
K OVERALL ELECTRICAL WIRING DIAGRAM



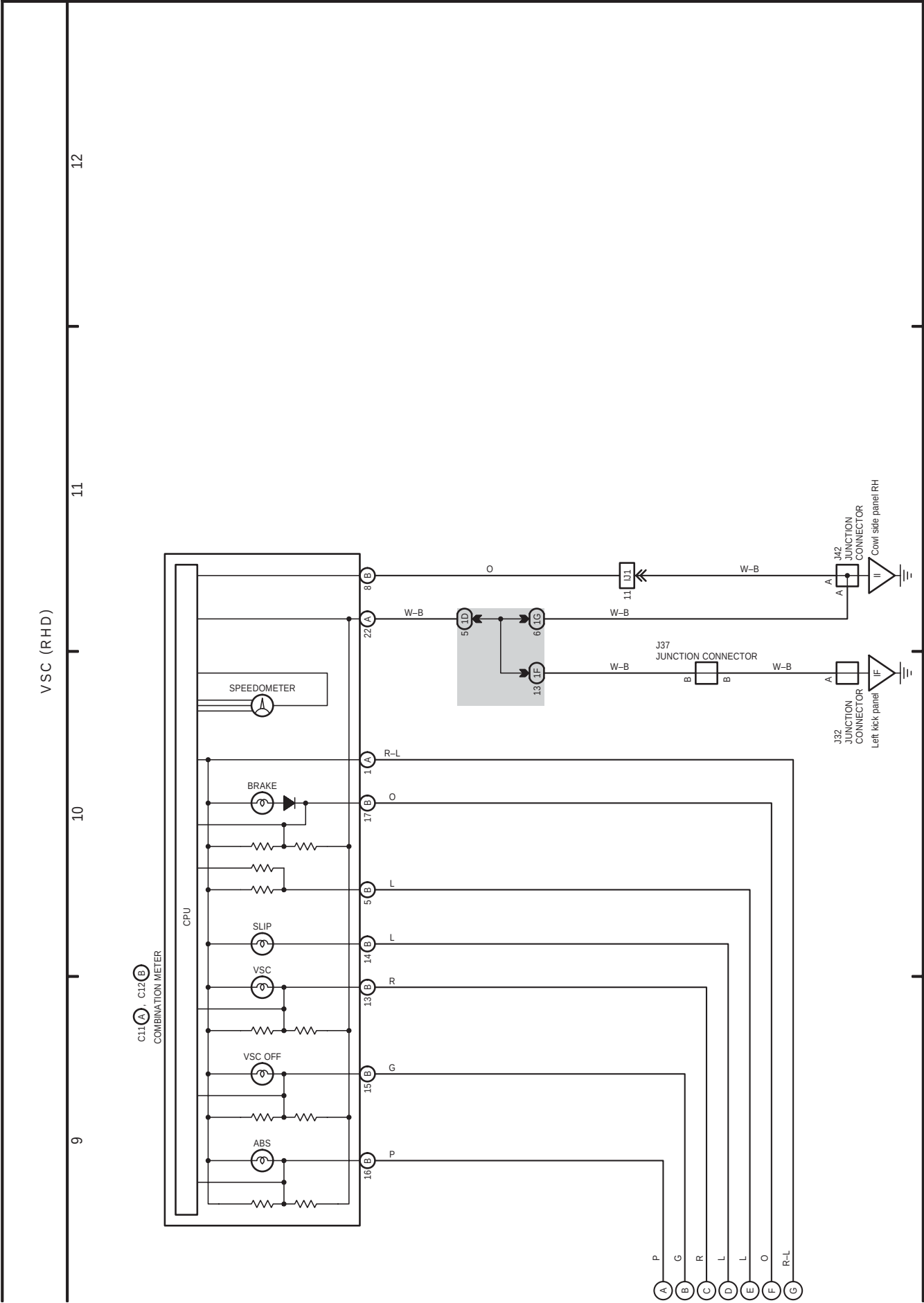
## 19 GS 300

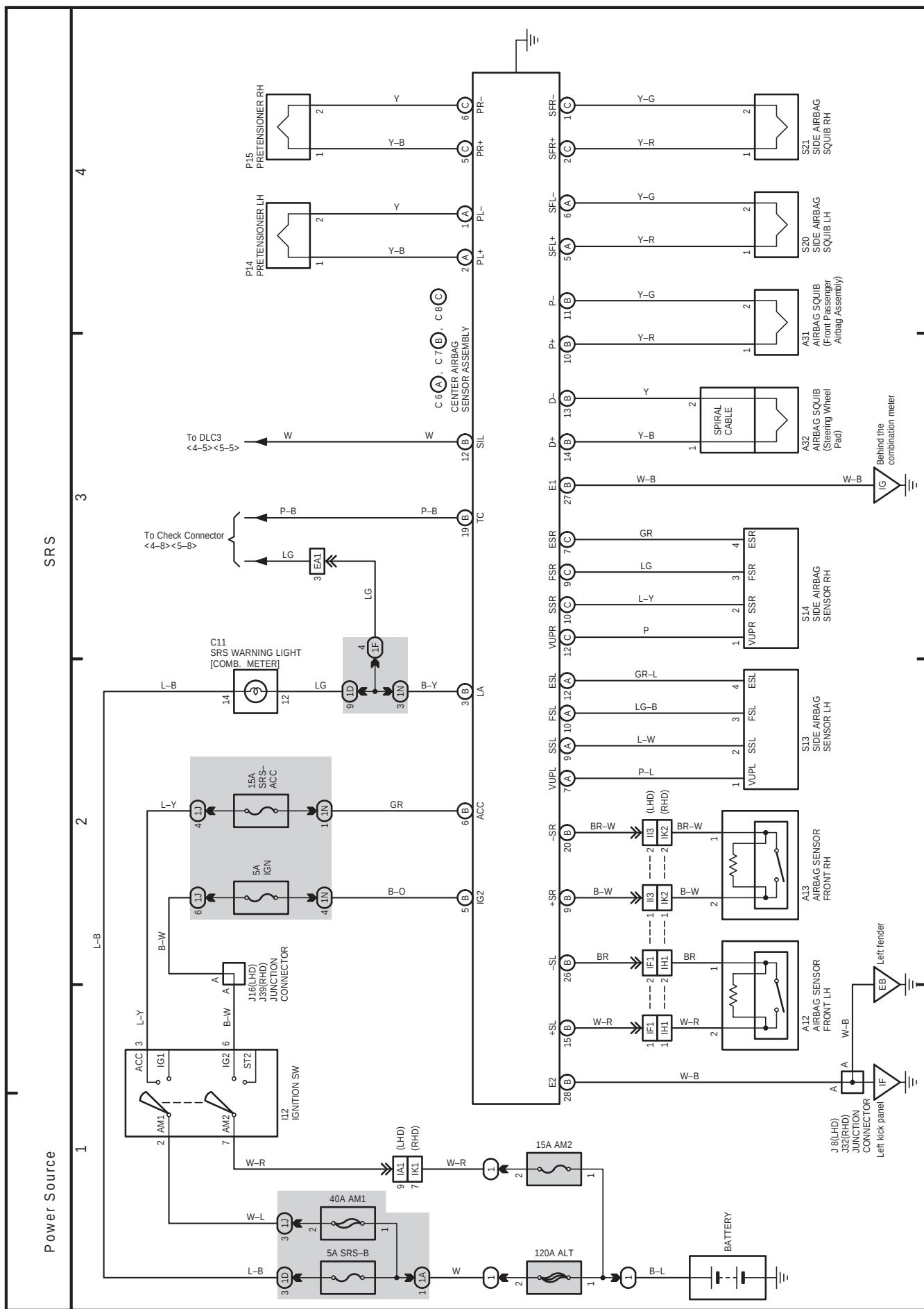


VSC (RHD)



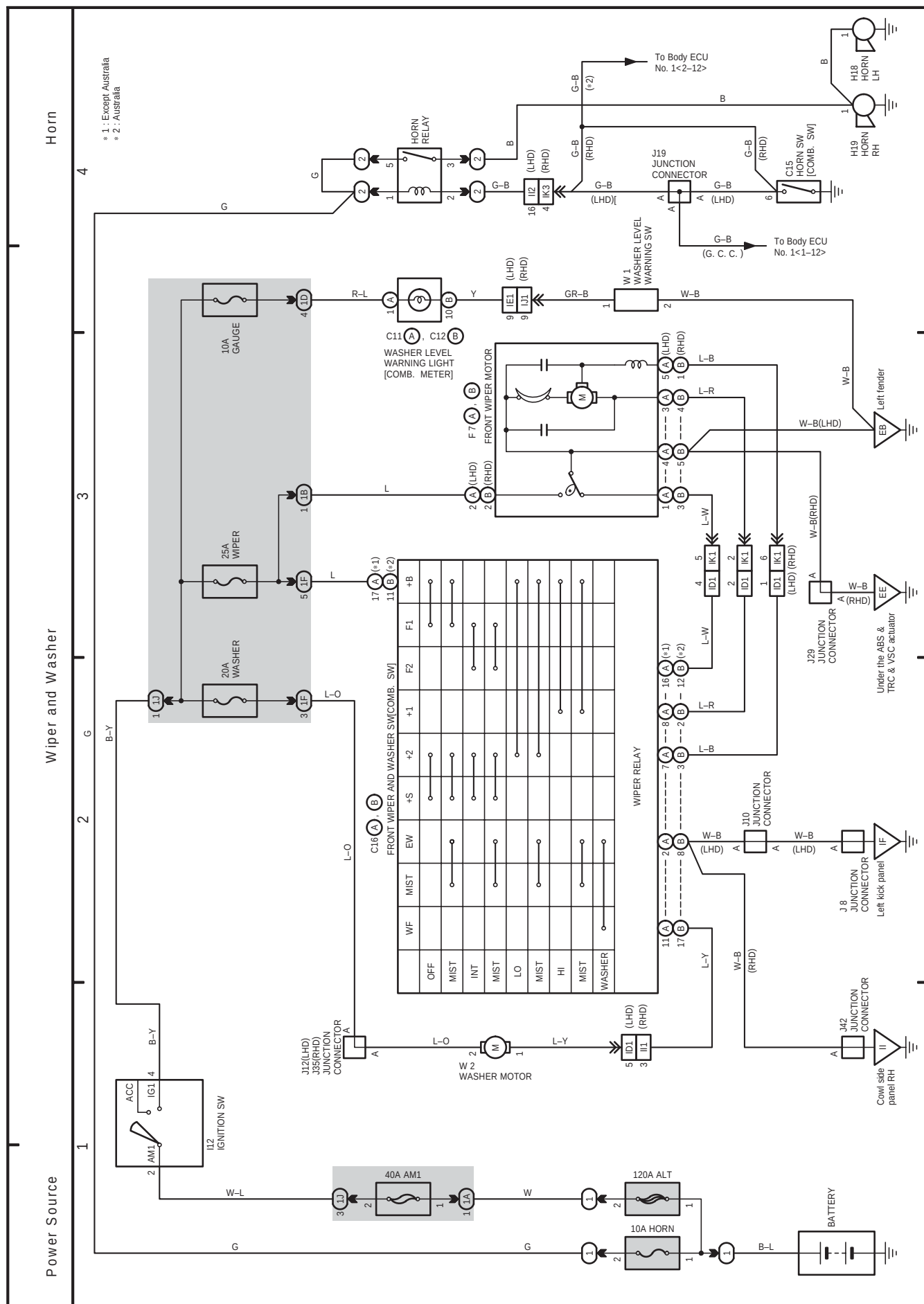
K OVERALL ELECTRICAL WIRING DIAGRAM



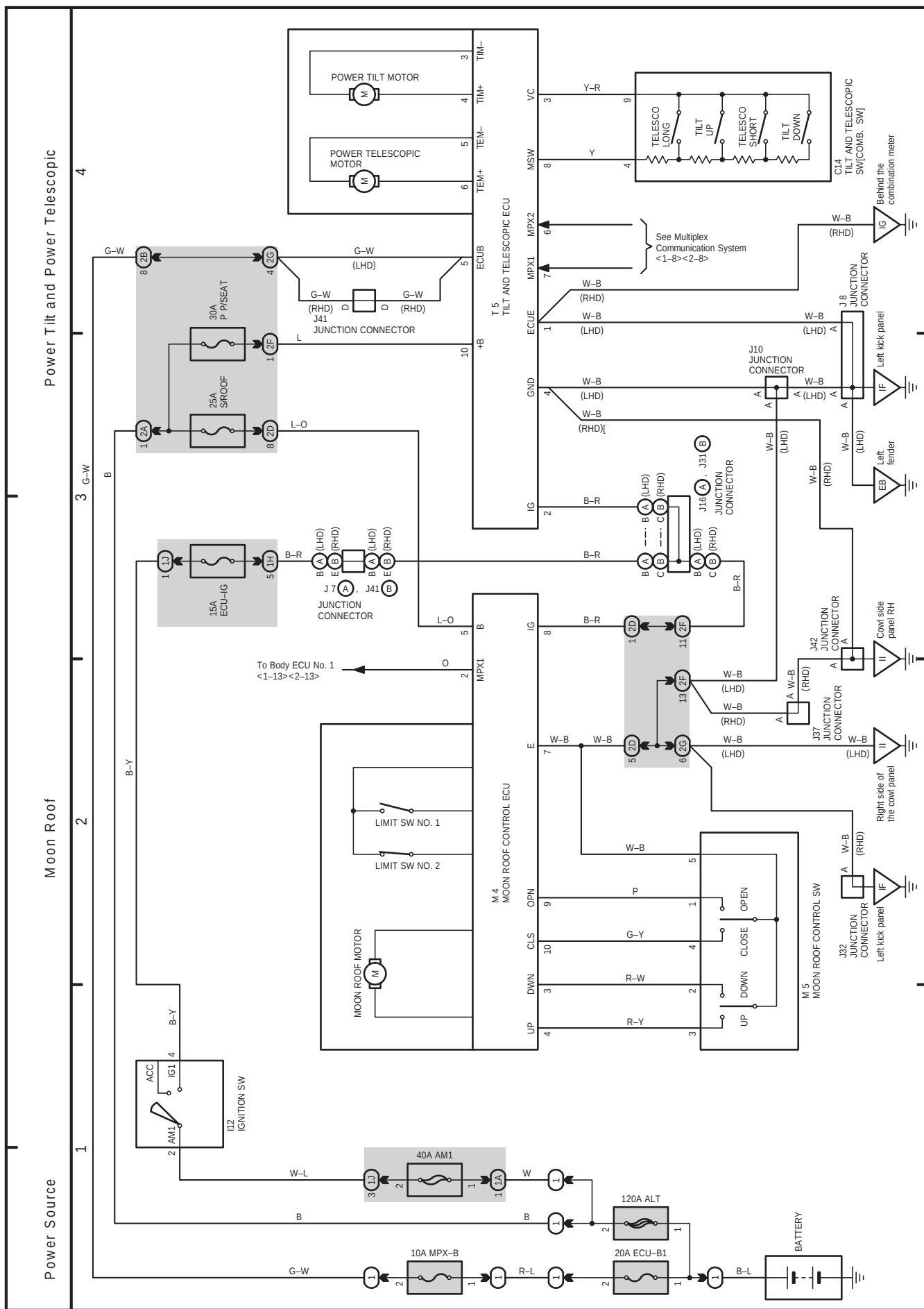




## 21 GS 300

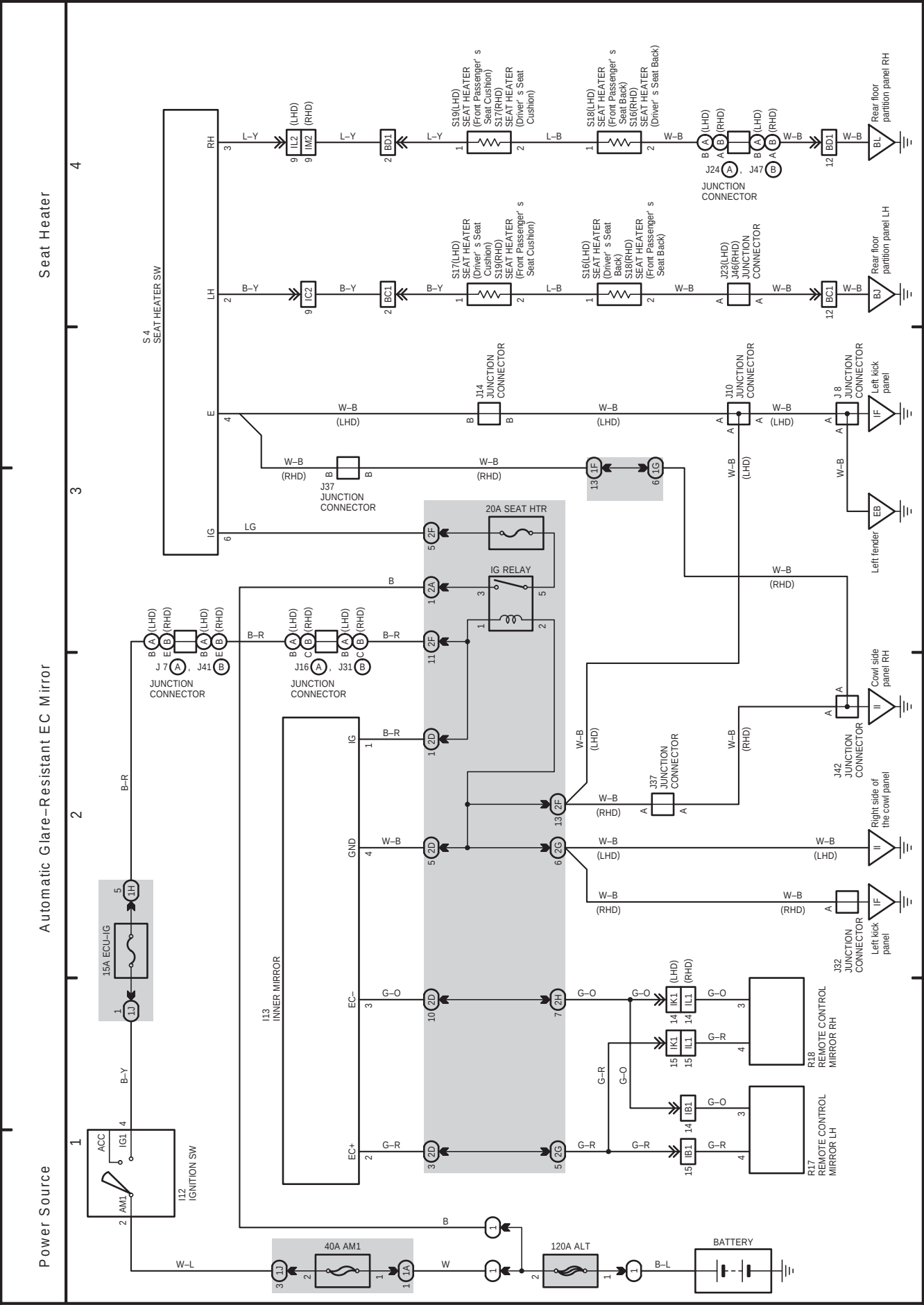


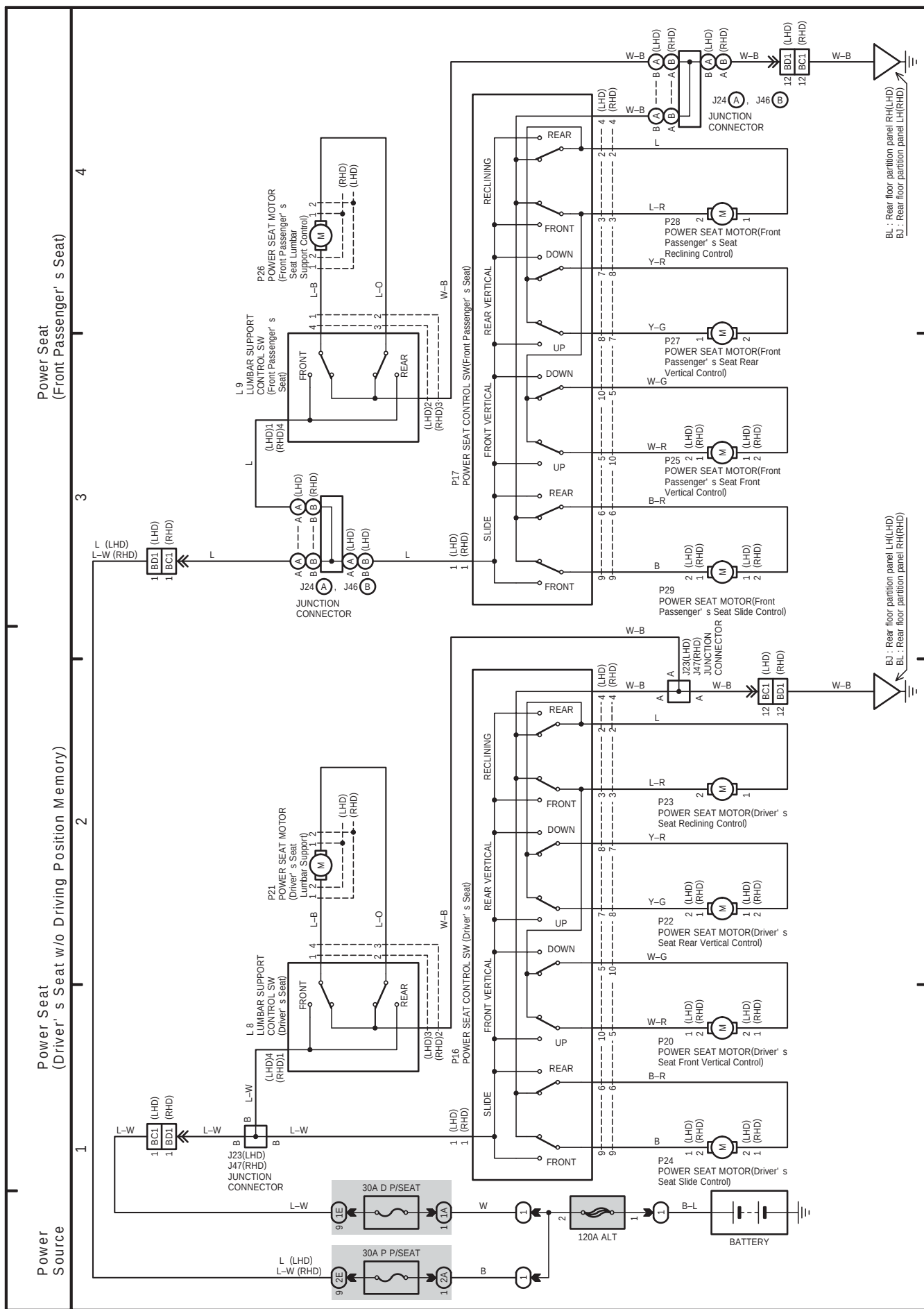
## 22 GS 300



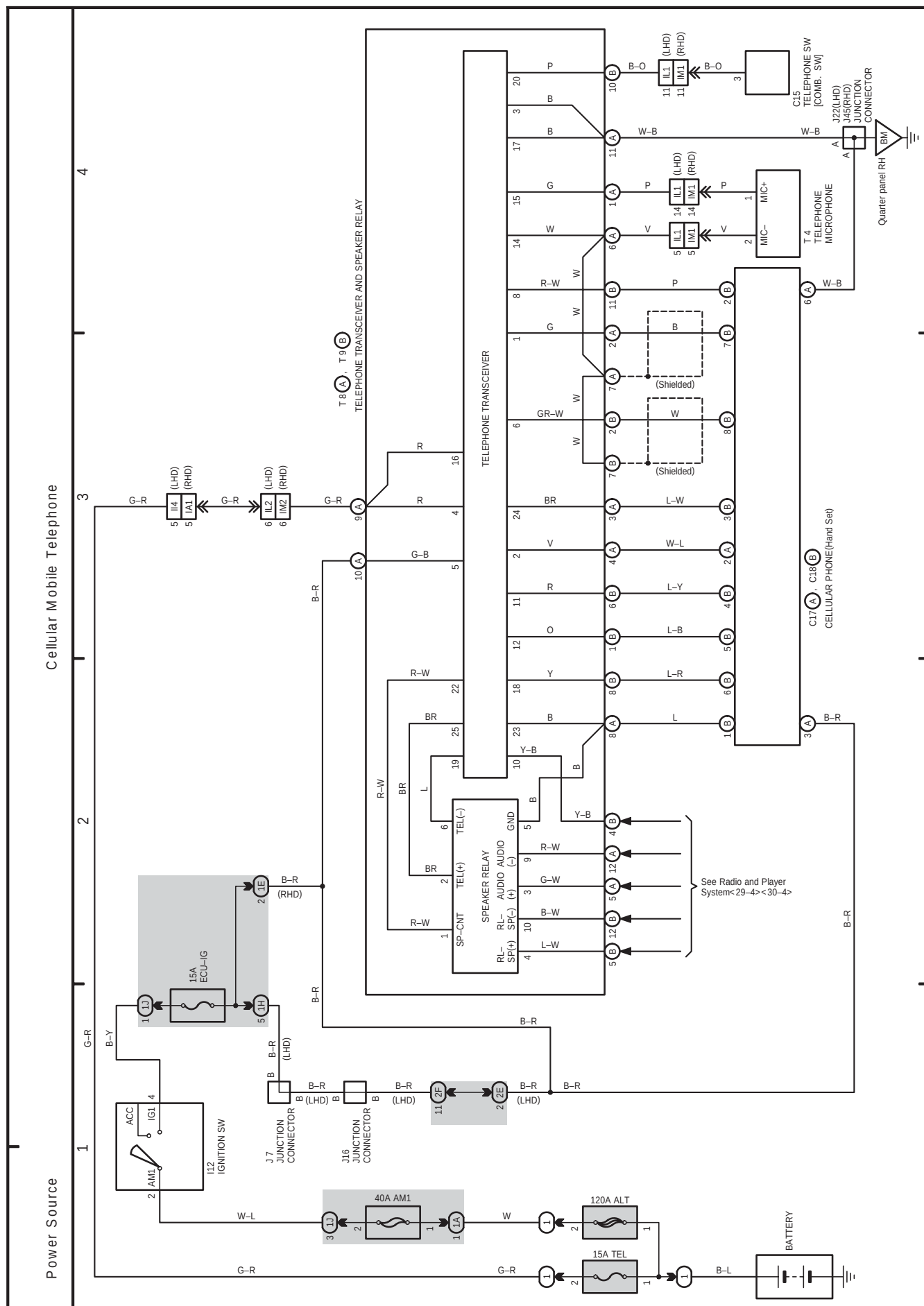
K OVERALL ELECTRICAL WIRING DIAGRAM

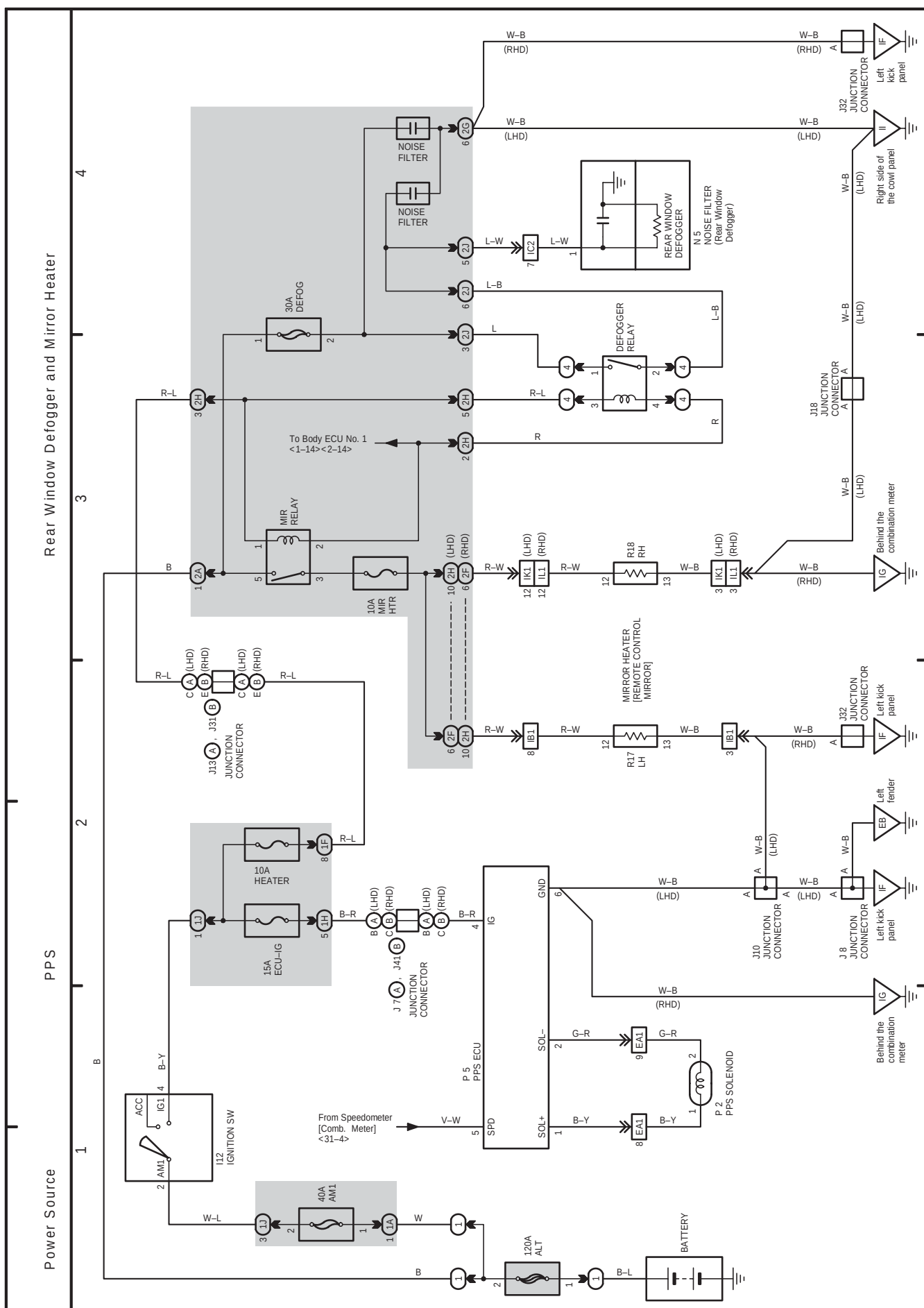
23 GS 300





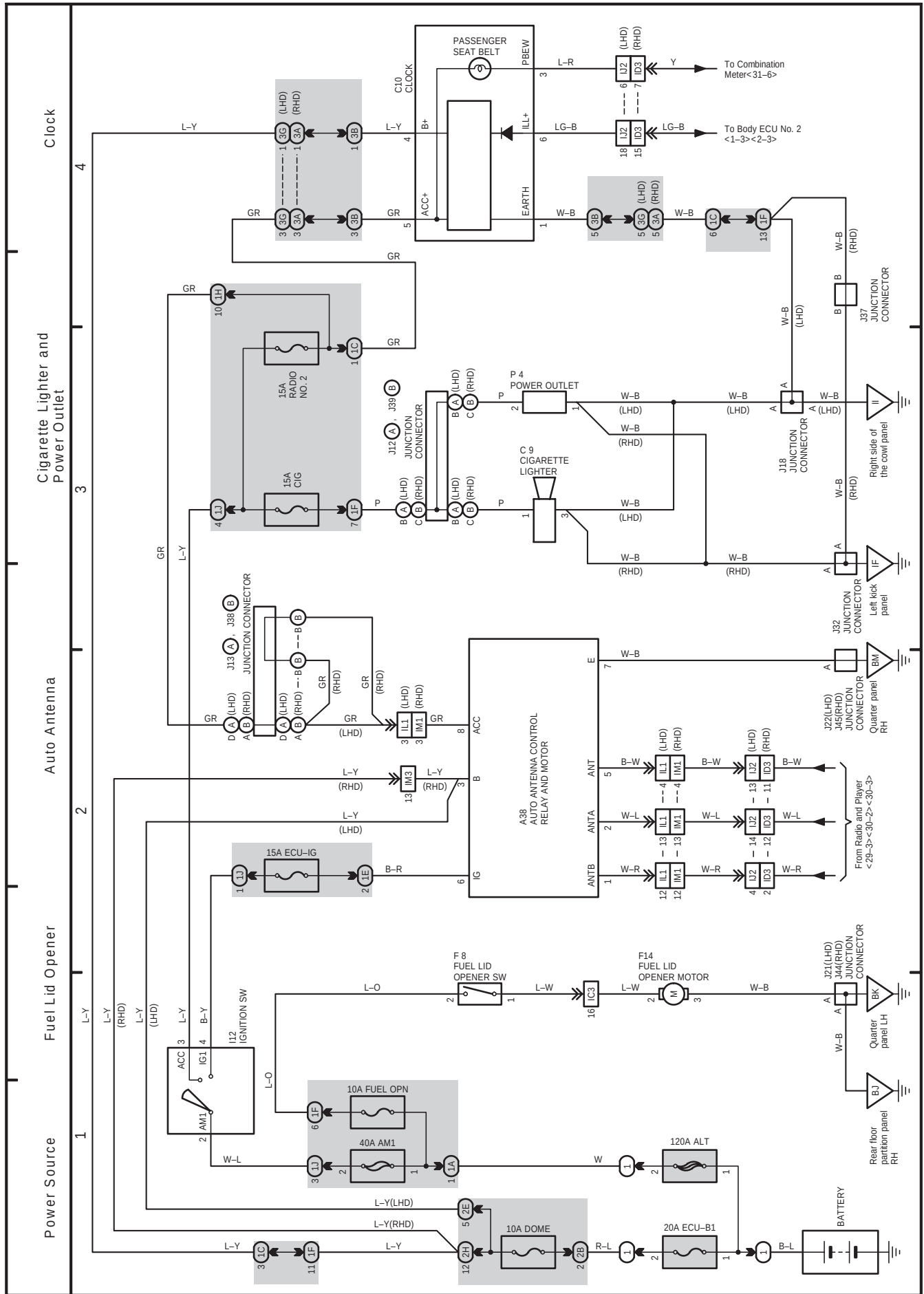
## 25 GS 300

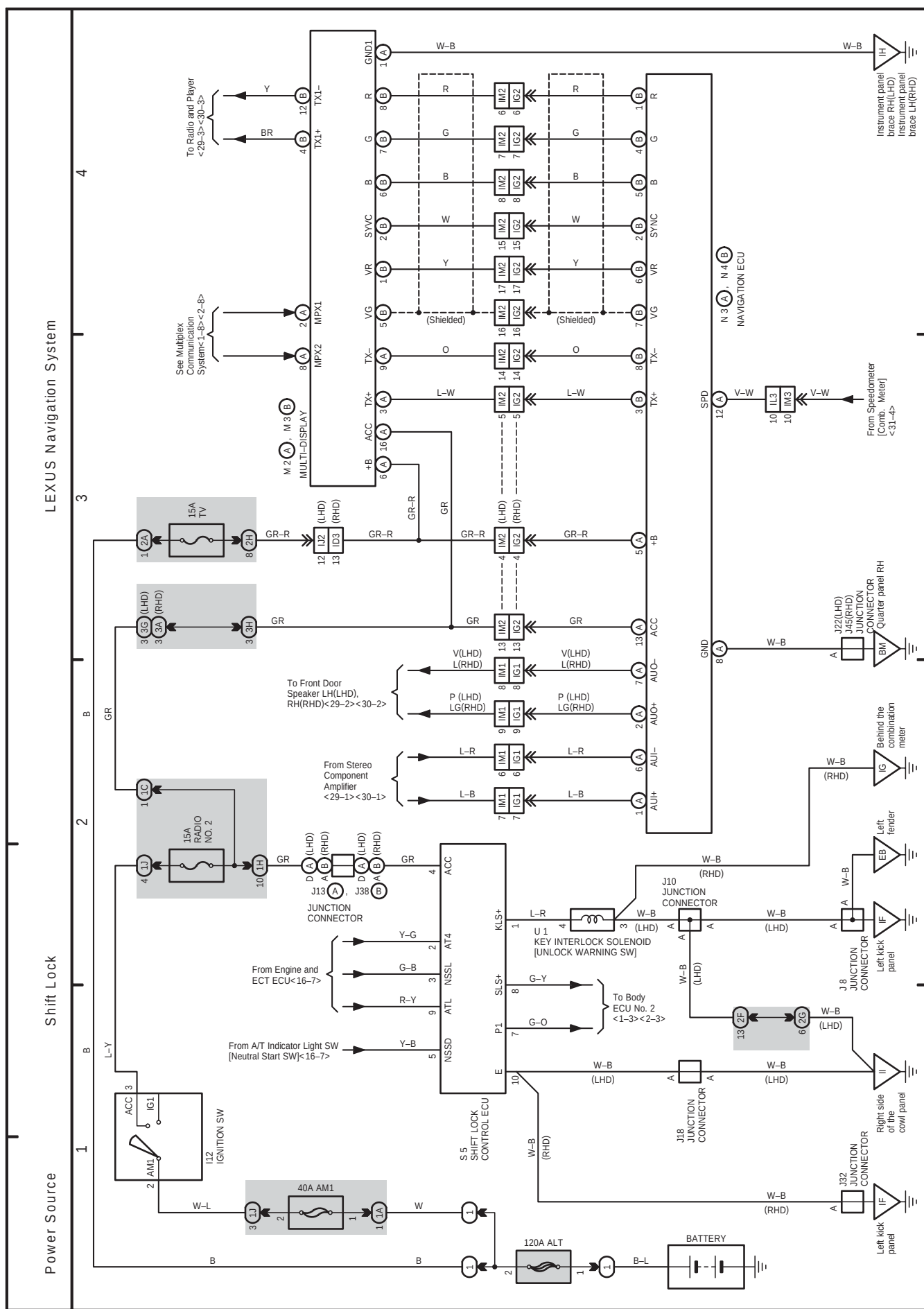




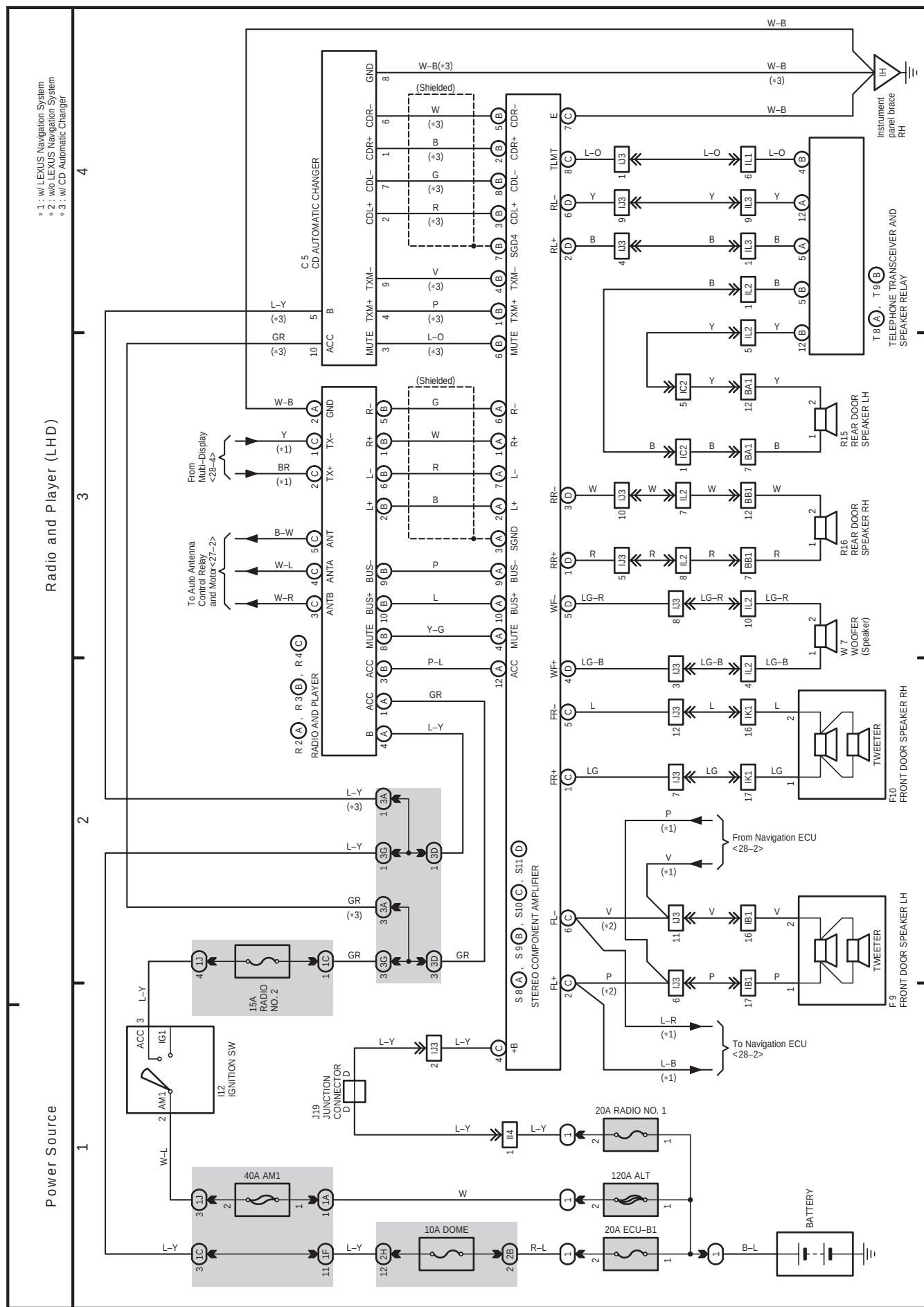
# K OVERALL ELECTRICAL WIRING DIAGRAM

27 GS 300







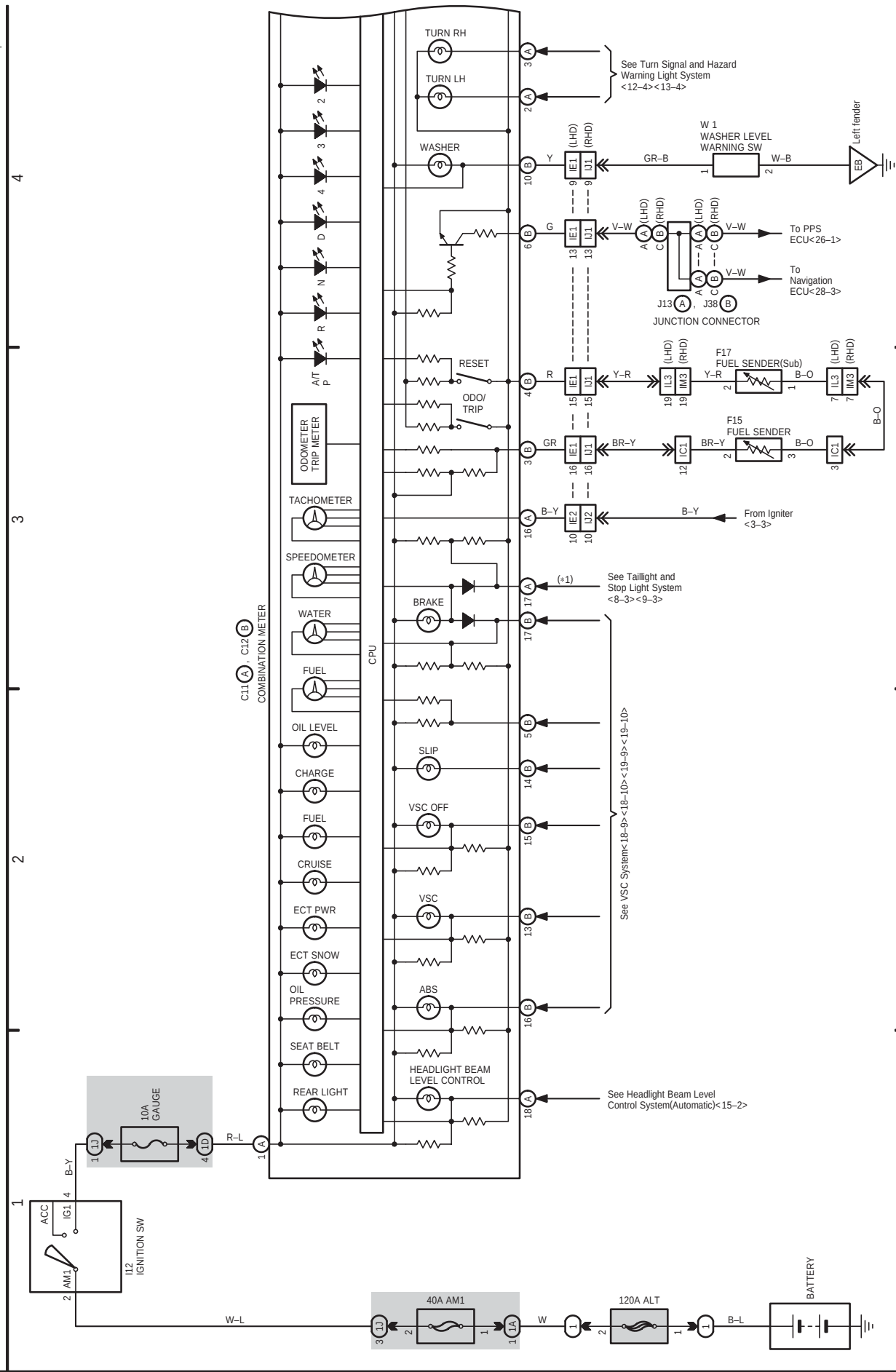


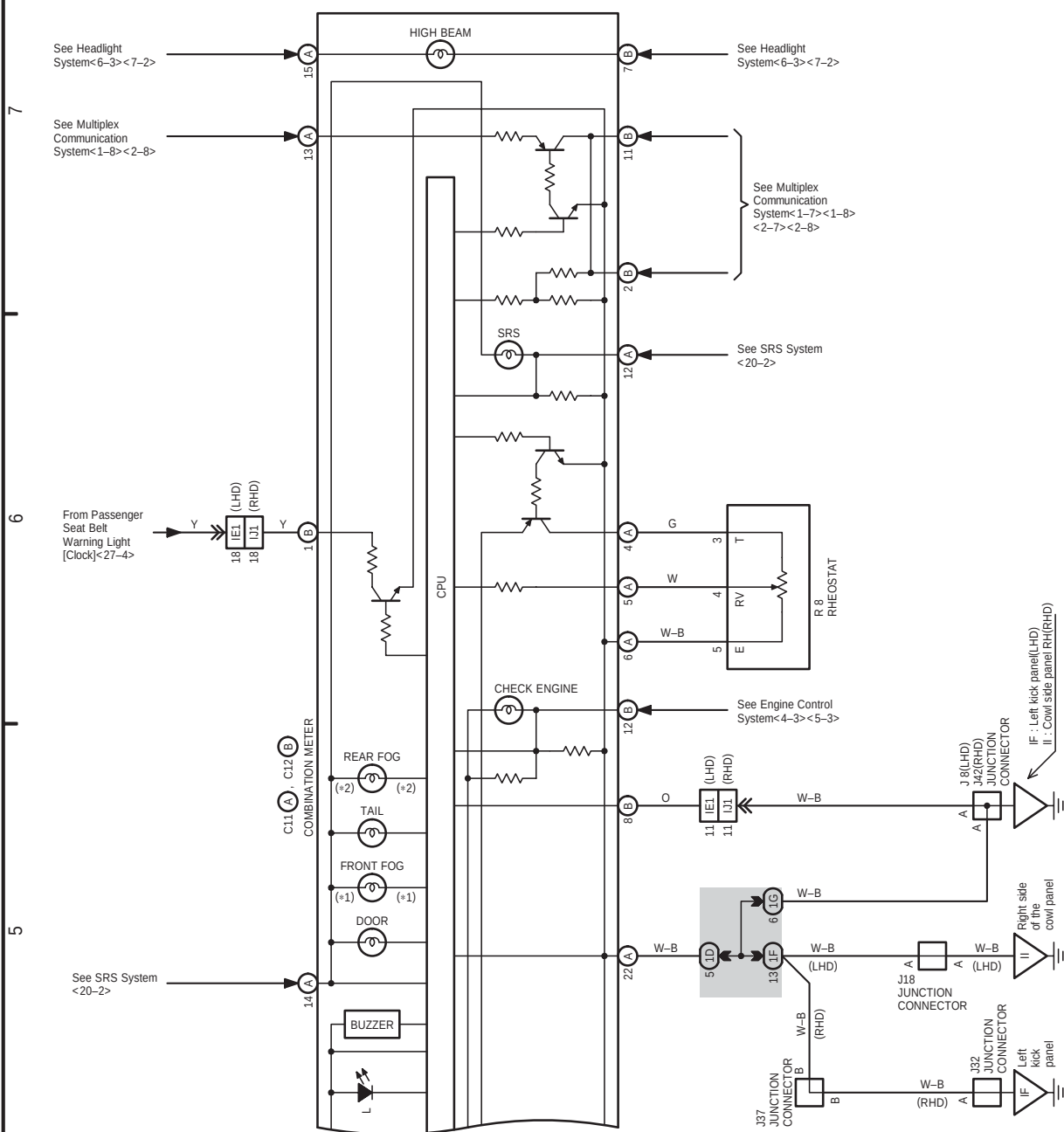
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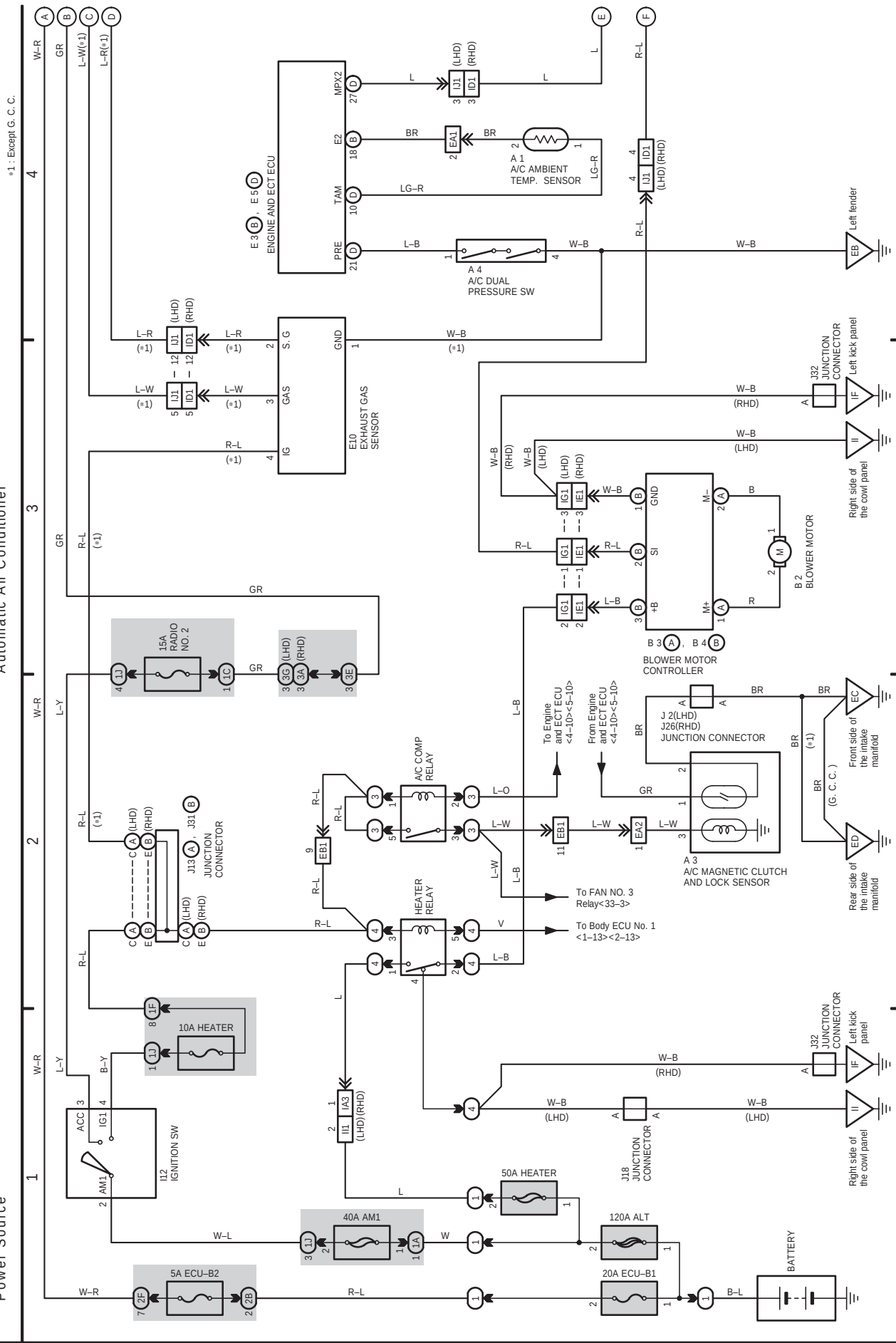
Power Source

## Combination Meter

\* 1 : Europe

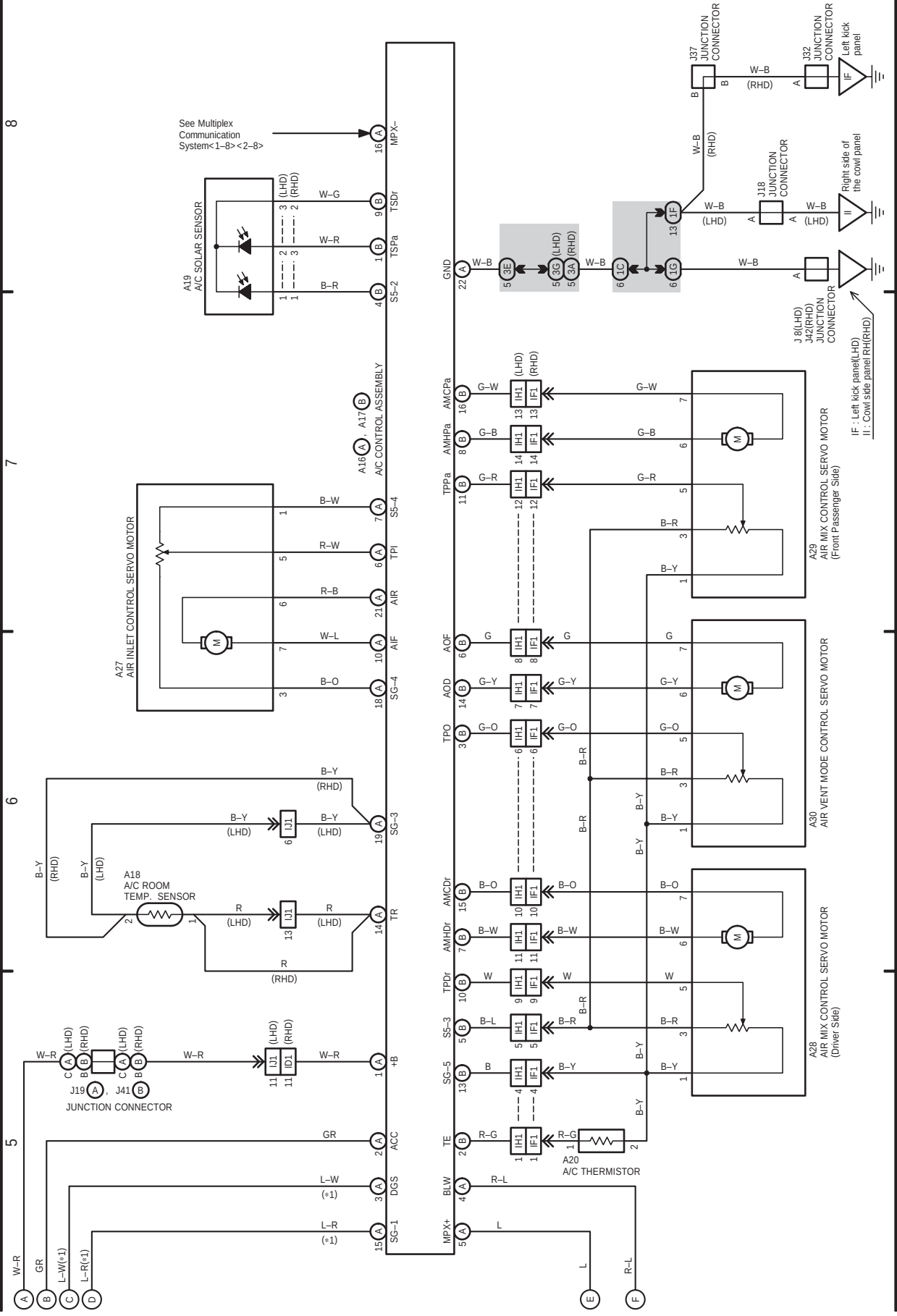






# Automatic Air Conditioner

\* 1 : Except G. C.



### 33 GS 300

