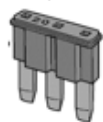


Ford F59 Fuse & Relay Reference

– All Model Years

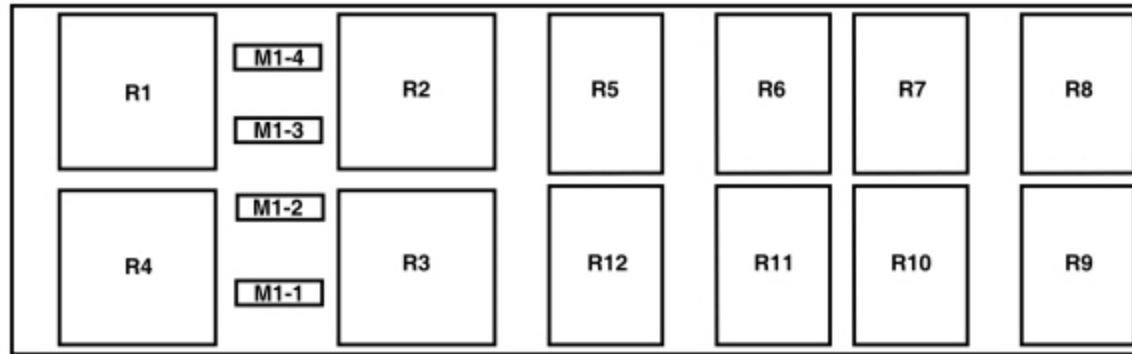
Fuse Types & Part Numbers

Micro 2				Micro 3				
								
Amp	Color	Ford SPN	Littelfuse part #	Amp	Color	Ford SPN	Littelfuse part #	
5	Tan	DG9Z-14526-F	0327005_	5	Tan	DG9Z-14526-N	0337005.0_	
7.5	Brown	DG9Z-14526-G	032707.5_	7.5	Brown	DG9Z-14526-S	0337007.5_	
10	Red	DG9Z-14526-H	0327010_	10	Red	DG9Z-14526-P	0337010.0_	
15	Blue	DG9Z-14526-J	0327015_	15	Blue	DG9Z-14526-R	0337015.0_	
20	Yellow	DG9Z-14526-K	0327020_					
25	White		0327025_					
30	Green	DG9Z-14526-M	0327030_					
Mini Fuses				Maxi Fuses				
								
Amp	Color	Ford SPN	Littelfuse part #	Amp	Color	Ford SPN	Littelfuse part #	
2	Grey	F2UZ-14526-H	0297002_	20	Yellow	E9TZ-14526-A	0299020_	
5	Tan	F2UZ-14526-L	0297005_	30	Lt Green	E9TZ-14526-E	0299030_	
7.5	Brown	F5OZ-14526-AB	0297007.5_	40	Orange	E9TZ-14526-B	0299040_	
10	Red	F2UZ-14526-M	02970010_	50	Red	E9TZ-14526-C	0299050_	
15	Blue	F2UZ-14526-N	02970015_	60	Lt Blue	E9TZ-14526-D	0299060_	
20	Yellow	F2UZ-14526-P	0297020_					
J Case				Slotted M Case				
								
Amp	Color	Ford SPN	Littelfuse part #	Amp	Color	Ford SPN	Littelfuse part #	QTY
20	Blue	F8SZ-14526-AA	0495020_	15	Gray	GU5Z-14526-E	0695015.PXPS	5
30	Pink	F8SZ-14526-BA	0495030_	20	Blue	GU5Z-14526-F	0695020.PXPS	5
40	Green	F8SZ-14526-CA	0495040_	25	White	GU5Z-14526-G	0695025.PXPS	5
50	Red	F8SZ-14526-DA	0495050_	30	Pink	GU5Z-14526-H	0695030.PXPS	5
				40	Green	GU5Z-14526-B	0695040.PXPS	1
				50	Red	GU5Z-14526-K	0695050.PXPS	5
				60	Yellow	GU5Z-14526-C	0695060.PXPS	1

Model Years 2014 - 2015

Model Years 2014 - 2015 F59 Battery Junction Box #1

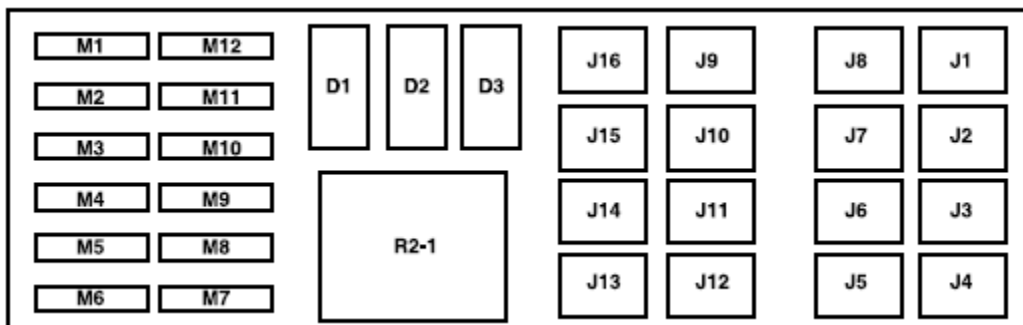
Location: On top of radiator, in front



Fuse or relay number	Fuse amp rating	Protected components
R1	Relay	Powertrain control module.
R2	Relay	Daytime running lamps.
R3	Relay	Starter motor.
R4	Relay	Blower motor.
R5	Relay	Horn.
R6	Relay	Fuel pump.
R7	Relay	Starter ground.
R8	Relay	Trailer tow parking lamps.
R9	Relay	Back-up lamps.
R10	Relay	Not used.
R11	Relay	Not used.
R12	Relay	Air conditioning.
M1-1	10A	Hydromax brake on/off relay.
M1-2	—	Not used.
M1-3	—	Not used.
M1-4	—	Not used.

Model Years 2014 - 2015 F59 Battery Junction Box (BJB) #2

Location: On top of radiator, in back



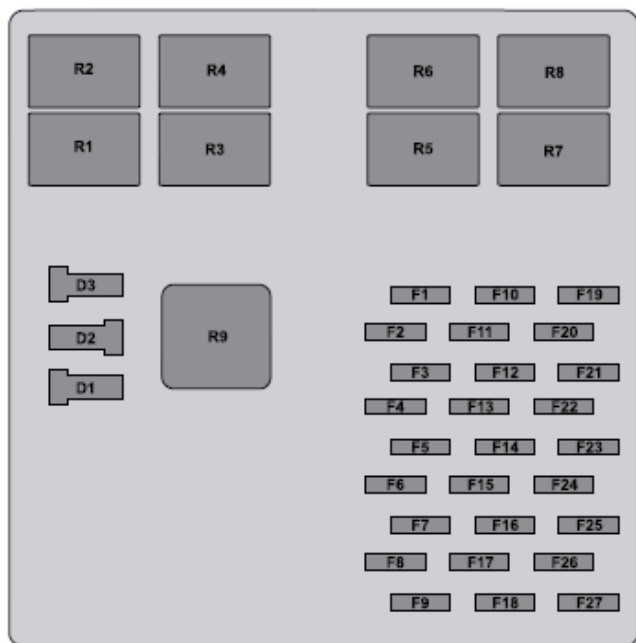
Fuse or relay number	Fuse amp rating	Protected components
M1	25A *	Back-up lamps.
M2	20A *	Daytime running lamps.
M3	30A *	4-channel anti-lock brake system module (Hydromax).
M4	20A *	Powertrain control module run/start. Fuel pump relay coil.
M5	10A *	Starter relay coil.
M6	20A *	Vehicle power 4.
M7	5A *	Hydromax motor monitor.
M8	20A *	Vehicle power 2.
M9	20A *	Vehicle power 1.
M10	10A *	Air conditioning.
M11	5A *	Powertrain control module relay keep alive power.
M12	20A *	Parking lamps.
D1	Diode	One-touch start.
D2	Diode	Fuel pump.
D3	Diode	Air conditioning.

Fuse or relay number	Fuse amp rating	Protected components
R2-1	—	Not used.
J1	30A **	Powertrain control module vehicle power.
J2	20A **	Fuel pump.
J3	20A **	Cigar lighter power point. Diagnostic connector.
J4	40A **	Blower motor.
J5	30A **	Headlamps.
J6	40A **	Ignition switch feeds.
J7	40A **	Ignition switch feeds.
J8	50A **	Instrument panel fuse box.
J9	30A **	Starter motor solenoid.
J10	40A **	3-channel anti-lock brake system module.
	60A **	4-channel anti-lock brake system module (Hydromax).
J11	30A **	Trailer tow electronic brake.
J12	60A **	Lighting.
J13	20A **	Vehicle power 3.
J14	20A **	Horn.
J15	40A **	3-channel anti-lock brake system module.
	60A **	4-channel anti-lock brake system module.
J16	20A **	Trailer tow parking lamps.

*Mini fuse.
5-case fuse.

Model Years 2014 - 2015 F59 Central Junction Box (CJB)

Location: Left hand body panel lower left driver's station

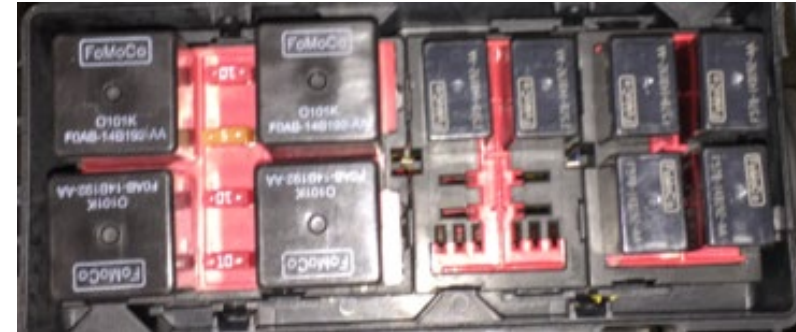
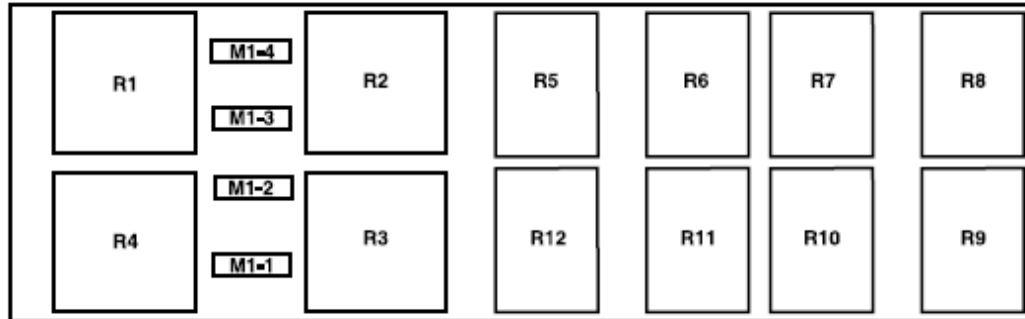


Fuse or relay number	Fuse amp rating	Protected components
F1	20A	Body builder battery (+12V) feed.
F2	20A	Flasher run.
F3	15A	Left turn.
F4	15A	Blower relay coil.
F5	15A	Right turn.
F6	10A	ABS run.
F7	10A	Body builder headlamp.
F8	5A	Daytime running lamps.
F9	10A	Body builder headlamp.
F10	—	Not used.
F11	10A	Cluster battery (+12V) #1.
F12	5A	UPS BTSI.
F13	10A	Cluster battery (+12V) #2.
F14	10A	Switch illumination.
F15	20A	Body builder battery (+12V) feed.
F16	—	Not used.
F17	20A	Trailer tow run.
F18	10A	Body builder run.
F19	10A	Brake lamp feed.
F20	10A	Body builder run.
F21	10A	R/S.
F22	30A	Wiper module battery (+12V).
F23	10A	Reverse lamps.
F24	5A	Body builder radio.
F25	10A	Trailer tow reverse lamps.
F26	10A	Cluster R/S.
F27	20A	Daytime running lamps.
R1	—	Daytime running lamps. Parking brake.
R2	—	Daytime running lamps on/off.
R3	—	Right-hand direction indicator.
R4	—	Trailer tow right-hand direction indicator.
R5	—	Left-hand direction indicator.
R6	—	Trailer tow left-hand direction indicator.

Model Years 2017 – 2019

Model Years 2017 – 2019 F59 Battery Junction Box (BJB) #1

Location: On top of radiator, in front

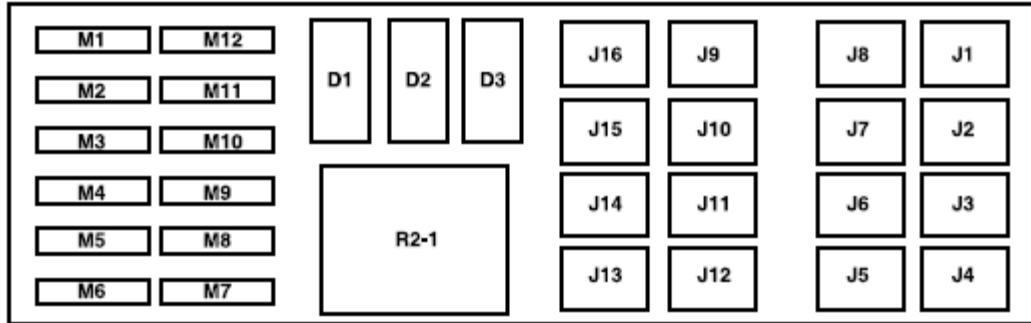


E172543

Fuse or Relay Number	Fuse Rating	Protected Components
R1	Relay	Powertrain control module.
R2	Relay	Daytime running lamps.
R3	Relay	Starter motor.
R4	Relay	Blower motor.
R5	Relay	Horn.
R6	Relay	Fuel pump.
R7	Relay	Starter ground.
R8	Relay	Trailer tow parking lamps.
R9	Relay	Backup lamps.
R10	Relay	Hydromax brake on/off relay.
R11	Relay	Not used.
R12	Relay	Not used.
M1-1	10A	Hydromax brake on/off relay.
M1-2	10A	Not used. (Cell 13-19 in OASIS. LG-RD wire circuit 1844)
M1-3	5A	Power brake assist module (Hydromax).
M1-4	10A	Powertrain control module.

Model Years 2017 - 2019 F59 Battery Junction Box (BJB) #2

Location: On top of radiator, in back (Mini fuses and J case fuses)

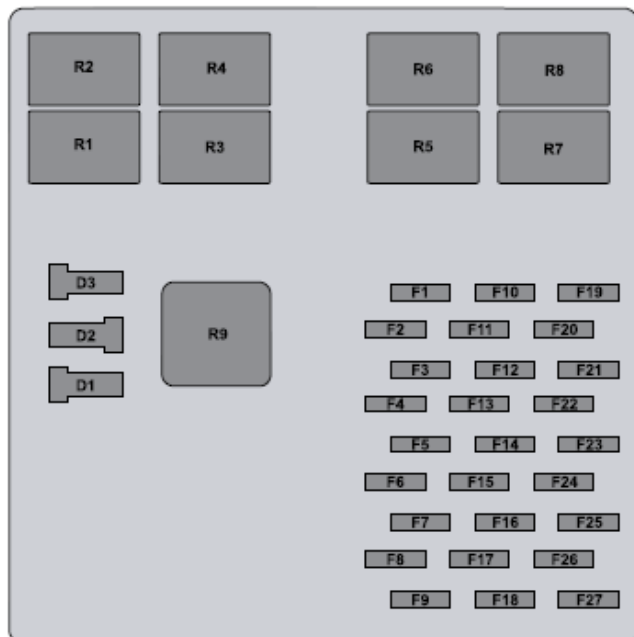


Fuse or Relay Number	Fuse Rating	Protected Components
M1	25A	Reversing lamp relay
M2	20A	Daytime running lamps.
M3	30A	4-channel anti-lock brake system module (Hydromax).
M4	20A	Powertrain control module run/start. Fuel pump relay coil. Fuel pump diode.
M5	10A	Not used (Listed in OASIS but not used for UPS)
M6	20A	Radio capacitors. Ignition coils.
M7	20A	Backup lamp relay coil. Air conditioning clutch coil. Air conditioning demand switch.
M8	20A	Evap purge valve, O2 sensors, MAF/IAT sensor
M9	20A	Powertrain control module power.
M10	5A	Brake shift Interlock
M11	5A	PCM relay keep alive power. PCM relay coil. EVAP vent valve
M12	20A	Parking lamps feed.
D1	Diode	Not used.
D2	Diode	Fuel pump.
D3	Diode	Not used.
R2-1	—	Not used.
J1	30A	Powertrain control module relay feed (BJB fuses M6, M7, M8, M9).
J2	20A	Fuel pump relay

J3	20A	Diagnostic connector.
J4	40A	Blower motor.
J5	30A	Headlamps. Daytime running lamps on/off relay coil. Headlamp daytime running lamp relay feed. High beam headlamps flash to pass. (CJB fuses #25, 31).
J6	40A	Ignition switch (CJB fuse F26).
J7	40A	CJB fuses F2, F4, F6, F8, F20, F21, F22, F24, F26. BJB fuses M4, M1-4.
J8	50A	CJB fuses F11, F13, F15, F17.
J9	30A	Starter relay feed. Starter motor solenoid.
J10	60A	Hydro-max relay, BJB fuses M1-1, M1-3
J11	30A	Trailer tow electronic brake.
J12	60A	Lighting primary. CJB fuses F3, F5.
J13	20A	Brake Pedal Switch, Multifunction switch Hazard, turn relay (Cell 13-18 in OASIS. LG-RD wire circuit 10. Not affiliated with F2 / M1-2 as suggested in OASIS)
J14	20A	Horn.
J15	60A	HydroMax anti-lock brake system module.
J16	20A	Trailer tow parking lamps.

Model Years 2017 - 2019 F59 Central Junction Box (CJB)

Location: Left hand body panel lower left driver's station

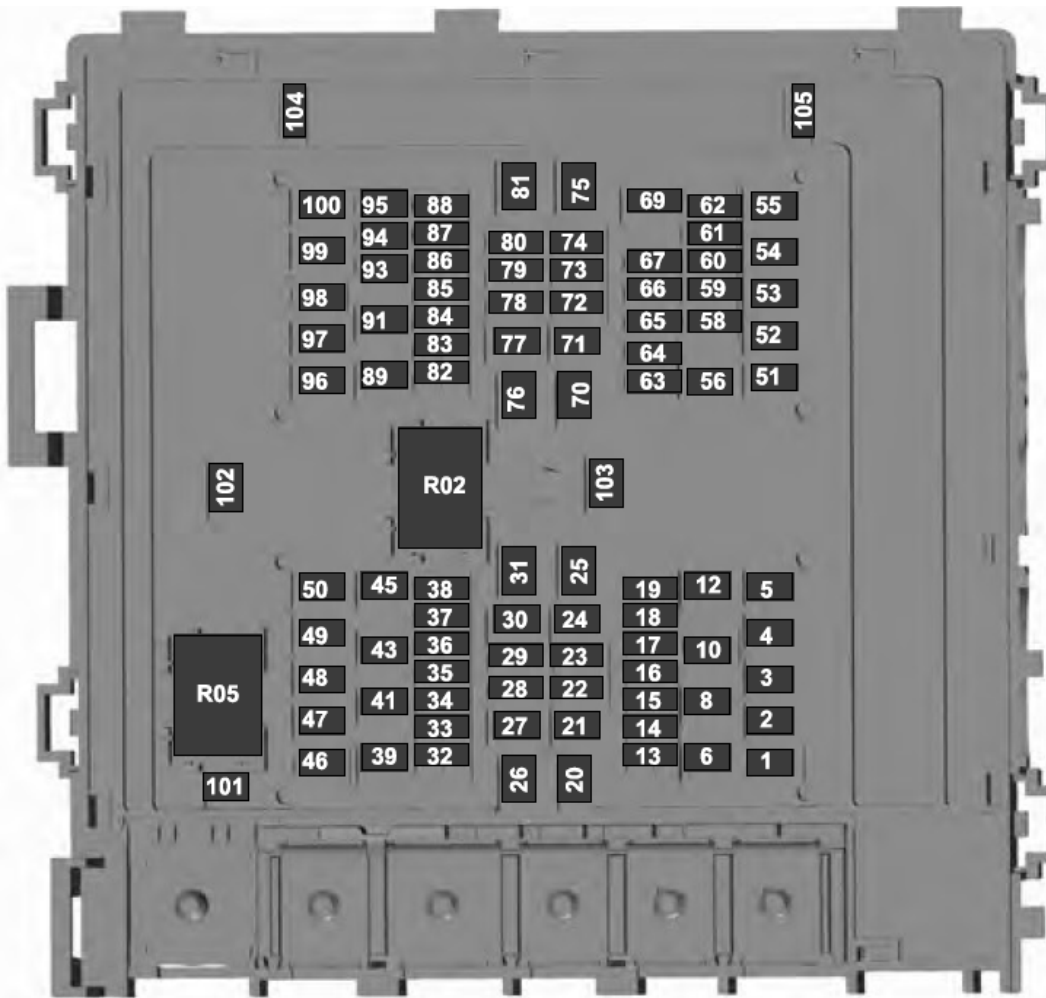


Fuse or Relay Number	Fuse Rating	Protected Components
F1	—	Not used.
F2	20A	Multifunction switch: Right/left rear direction indicator. Right/left direction indicator relay coil. Instrument cluster right/direction indicator.
F3	15A	Left turn relay: Left turn signal. Hazard lamps.
F4	15A	Blower motor relay coil.
F5	15A	Right turn relay: Right front/rear direction indicator. Right front/rear hazard lamp.
F6	10A	Anti-lock brake system module (HydroMax).
F7	10A	Right low beam headlamp.
F8	5A	Daytime running lamps relay, park brake relay.
F9	10A	Left low beam headlamp.
F10	10A	Transmission control switch.
F11	10A	Cluster battery (+12V) #1.
F12	—	Not used.
F13	10A	Cluster battery (+12V) #2.
F14	10A	Switch illumination. Instrument cluster lighting.
F15	20A	Interlube pump battery feed
F16	—	Not used.
F17	20A	Trailer tow left & right relays: direction indicators. Trailer tow stop lamps. Trailer tow hazard lamps.
F18	10A	Body builder off/run (run power circuit accessory feed 2)
F19	10A	Body builder brake lamps , Trailer brake control module Brake on/off signal.
F20	10A	Interlub pump run / accessory feed
F21	10A	Instrument cluster.
F22	30A	Wiper/washer module. Wiper feed.
F23	10A	Reverse lamps.
F24	5A	Body builder radio feed.
F25	10A	Trailer tow reverse lamps.
F26	10A	Cluster run/accessory.
F27	20A	High beam indicator.
R1	Micro relay	Daytime running lamps. Parking brake.
R2	Micro relay	Daytime running lamps on/off.
R3	Micro relay	Right-hand direction indicator.
R4	Micro relay	Trailer tow right-hand direction indicator.
R5	Micro relay	Left-hand direction indicator.
R6	Micro relay	Trailer tow left-hand direction indicator.
R7 - R9	—	Not used.
D1 - D3	—	Not used.

Model Years 2020 – Present

Model Years 2020 - Present Battery Junction Box (BJB)

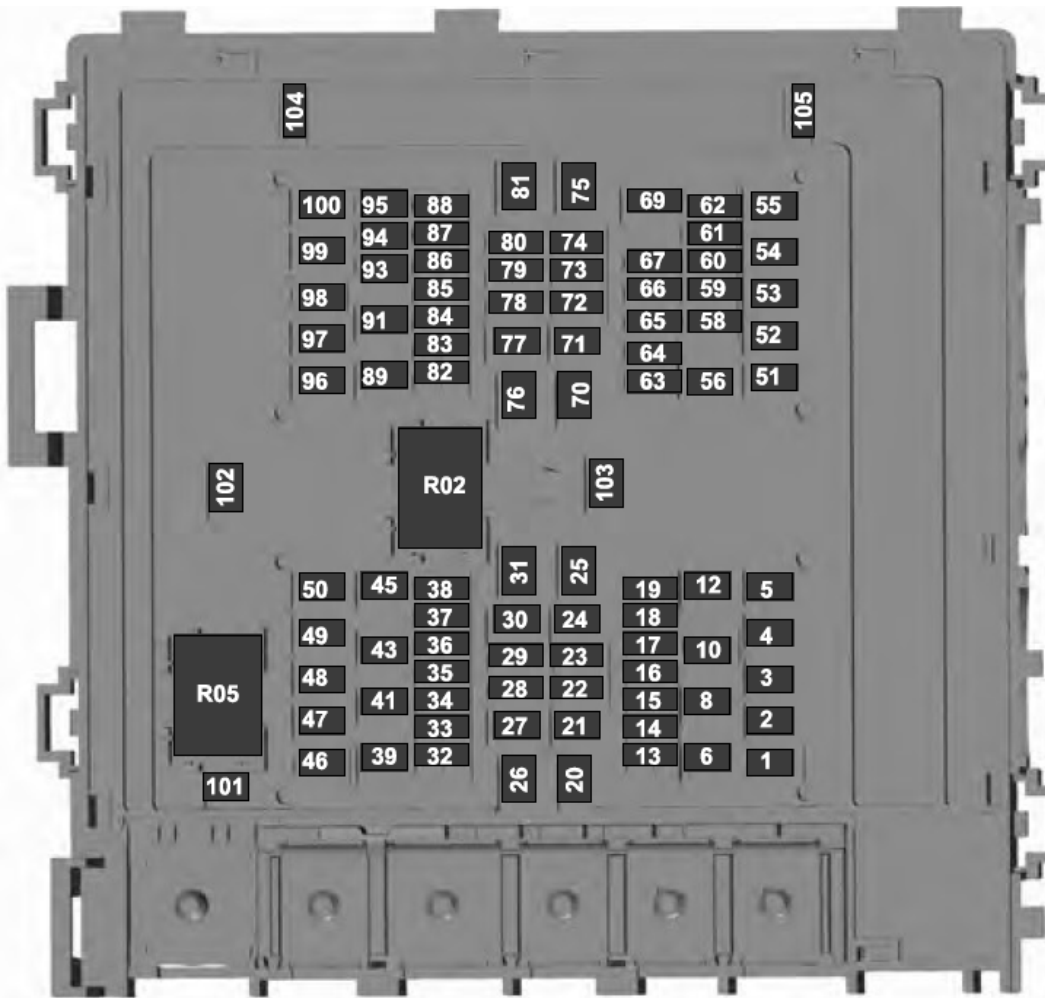
Location: On top of radiator



Fuse Number	Fuse Rating	Protected Component	FUSE TYPE
1	20 A	Horn.	MICRO
2	50 A	Blower motor.	M-CASE
3	—	Not used.	
4	30 A	Starter relay.	M-CASE
5	—	Not used.	
6	—	Not used.	
8	—	Not used.	
10	—	Not used.	
12	—	Not used.	
13	10 A	Run/start feed climate controls.	MICRO
14	10 A	Adaptive cruise control relay (commercial stripped chassis). Not used (spare) (Motorhome stripped chassis).	MICRO
15	—	Not used.	
16	—	Not used.	
17	10 A	Powertrain control module run/start feed.	MICRO
18	10 A	Anti-lock brake system run/start feed.	MICRO
19	—	Not used.	
20	40 A	Wiper power.	M-CASE
21	—	Not used.	
22	10 A	Wiper module.	MICRO
23	—	Not used.	
24	40 A	Body control module - battery power in feed 2.	M-CASE
25	50 A	Body control module - battery power in feed 1.	M-CASE
26	—	Not used.	
27	20 A	B+ to body builder connector.	M-CASE
28	—	Not used.	

Model Years 2020 - Present Battery Junction Box (BJB)

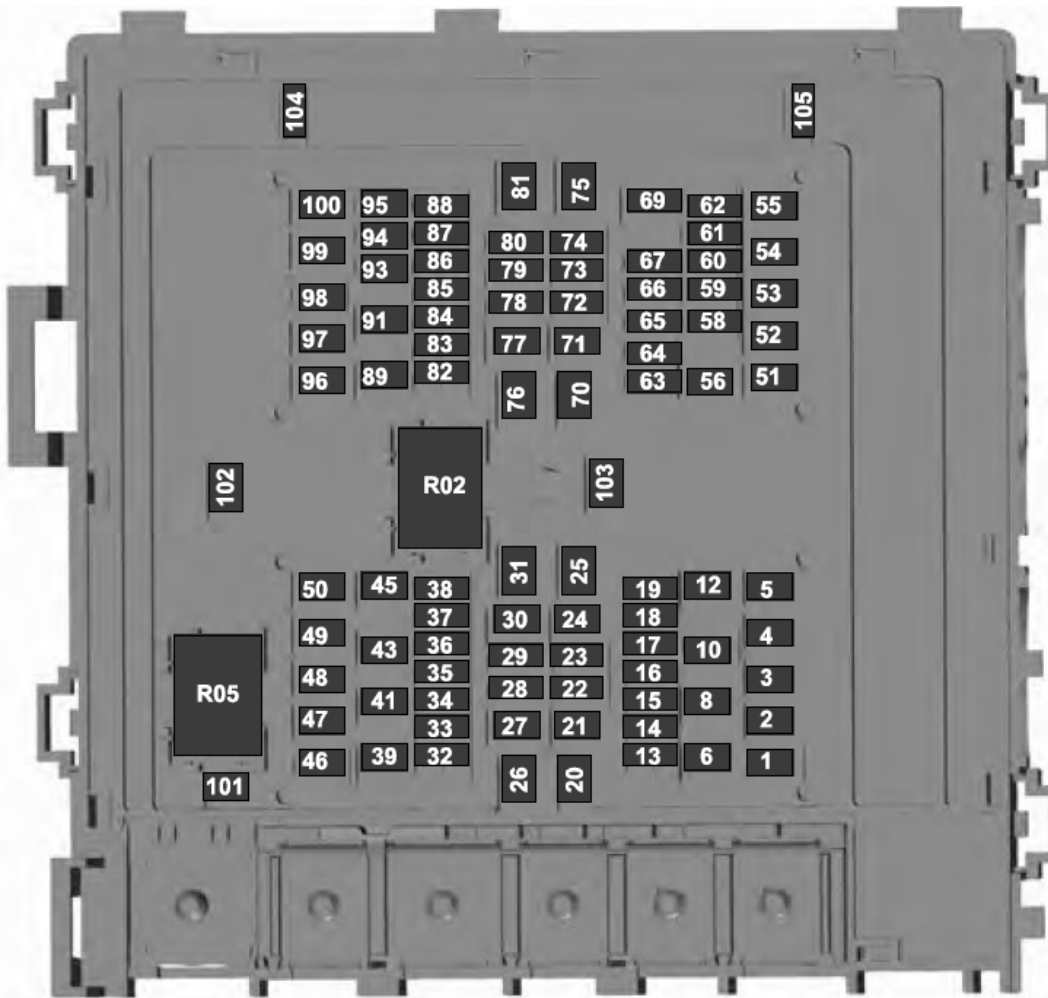
Location: On top of radiator



Fuse Number	Fuse Rating	Protected Component	FUSE TYPE
29	10 A	Alternator 1 A-line.	MICRO
30	—	Not used.	
31	60 A	Hydromax pump relay.	M-CASE
32	20 A	Vehicle power 1.	MICRO
33	20 A	Vehicle power 2.	MICRO
34	10 A	Vehicle power 3.	MICRO
35	20 A	Vehicle power 4.	MICRO
36	—	Not used.	
37	—	Not used.	
38	10 A	Wiper washer.	MICRO
39	—	Not used.	
41	30 A	Trailer brake control connector.	M-CASE
43	30 A	B+ to body builder connector.	M-CASE
45	—	Not used.	
46	10 A	A/C clutch.	MICRO
47	—	Not used.	
48	20 A	Run/accessory to body builder connector.	M-CASE
49	30 A	Pump electronics module.	M-CASE
50	15 A	Injector.	M-CASE
51	20 A	Auxiliary power point.	M-CASE
52	—	Not used.	
53	30 A	Trailer tow park lamps.	M-CASE
54	40 A	Upfitter run/start feed.	M-CASE
55	—	Not used.	
56	20 A	Auxiliary power point.	M-CASE
58	5 A	USB smart charger.	MICRO

Model Years 2020 - Present Battery Junction Box (BJB)

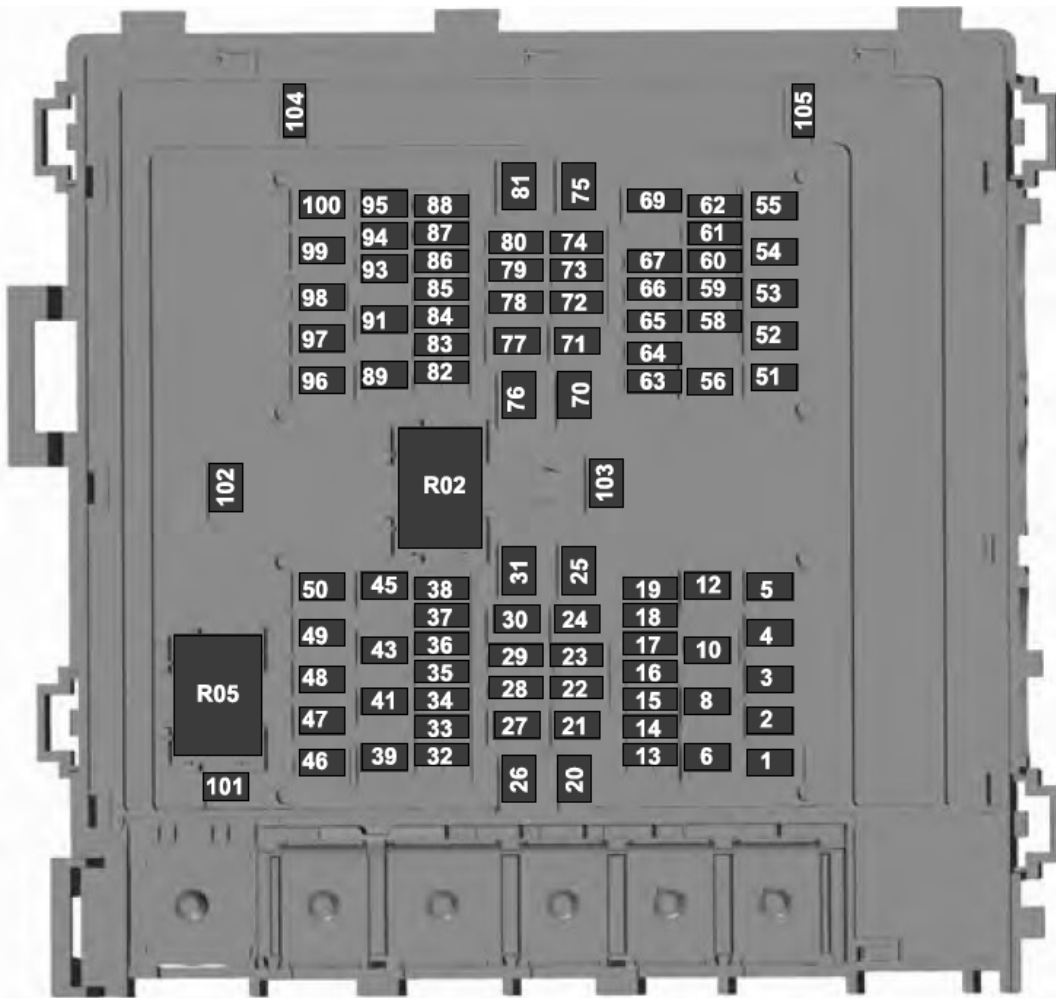
Location: On top of radiator



Fuse Number	Fuse Rating	Protected Component	FUSE TYPE
59	—	Not used.	
60	—	Not used.	
61	—	Not used.	
62	—	Not used.	
63	—	Not used.	
64	—	Not used.	
65	—	Not used.	
66	—	Not used.	
67	10 A	Brake on-off Isolation relay.	MICRO
69	—	Not used.	
70	—	Not used.	
71	30 A	Anti-lock brake system valves.	M-CASE
72	10 A	Not used (spare).	MICRO
73	—	Not used.	
74	—	Not used.	
75	—	Not used.	
76	60 A	B+ to body control module.	M-CASE
77	30 A	Voltage quality module power - body control module.	M-CASE
78	10 A	Trailer tow stop lamps.	MICRO
79	5 A	Hydromax pump monitor.	MICRO
80	10 A	Trailer tow backup lamps.	MICRO
81	—	Not used.	
82	—	Not used.	
83	—	Not used.	
84	—	Not used.	
85	—	Not used.	

Model Years 2020 - Present Battery Junction Box (BJB)

Location: On top of radiator



Fuse Number	Fuse Rating	Protected Component	FUSE TYPE
86	—	Not used.	
87	—	Not used.	
88	—	Not used.	
89	—	Not used.	
91	40 A	B+ to body builder connector.	M-CASE
93	—	Not used.	
94	—	Not used.	
95	20 A	Stop lamp relay. Trailer brake controller.	MICRO
96	—	Not used.	
97	50 A	Not used (spare).	M-CASE
98	30 A	Trailer tow battery charge.	M-CASE
99	—	Not used.	
100	—	Not used.	
101	—	Not used.	
102	—	Not used.	
103	—	Not used.	
104	—	Not used.	
105	15 A	Trailer tow right-hand and left-hand stop and direction indicator relay power.	MICRO

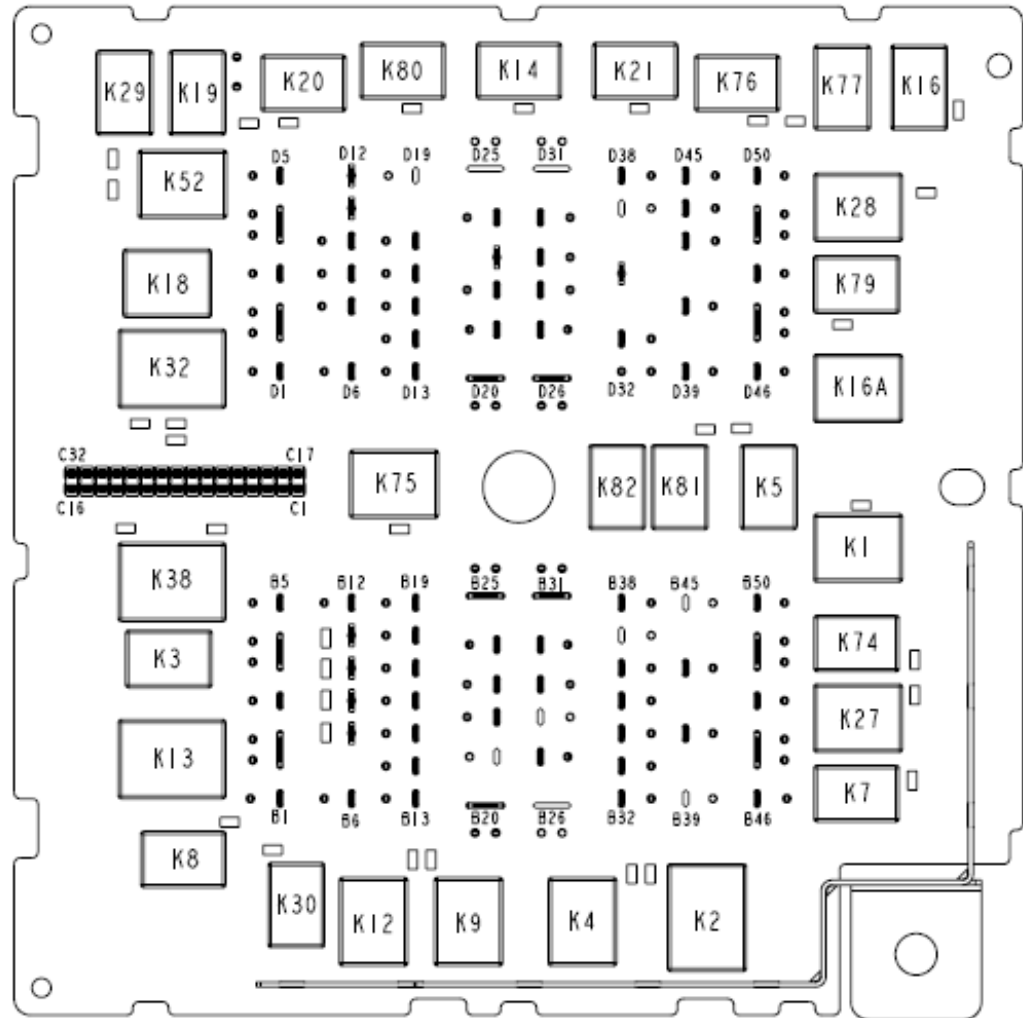
Model Years 2020 - Present Battery Junction Box (BJB)

Location: On top of radiator

NOTE: RELAYS ARE SOLDERED IN PRINTED CIRCUIT BOARD AND NOT SERVICEABLE
If a bad relay is suspect, the entire BJB needs replaced

VN127, H567, F5X Relay Assignments

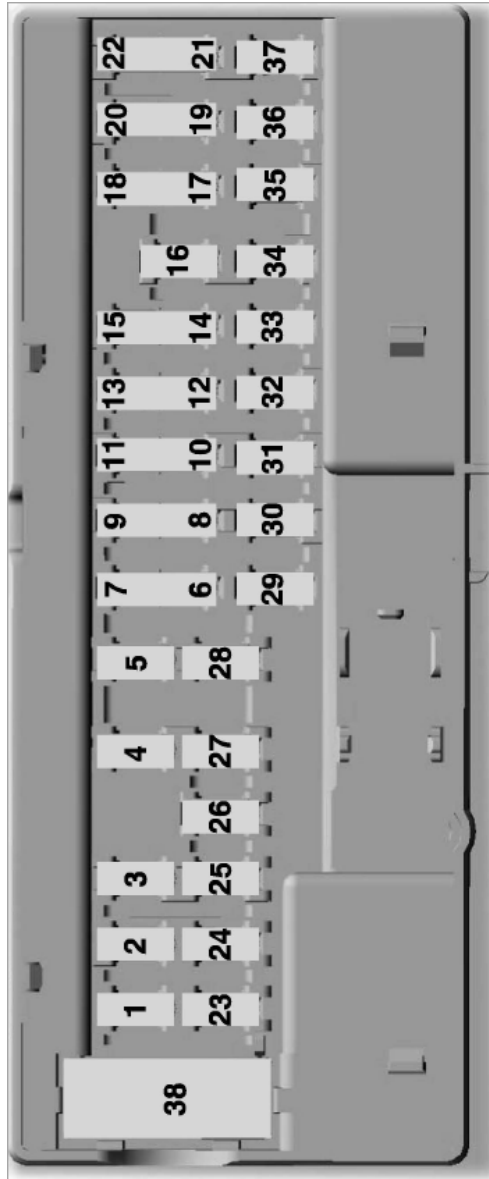
K1 – Fuel Pump
K2 – PCM
K3 – Starter
K7 – Ac Clutch
K8 – Horn
K9 – Front Wiper Motor
K12 – Run/Start
K13 – Front Blower
K14 – Heated Mirror (H567)
K16 – Urea Heater/Air Brake Fan (H567)
K18 – TT Park Lamps
K19 – TT Stop/Turn LH
K20 – TT Stop/Turn RH
K21 – TT Backup Lamp
K27 – Upfit 1 (H567/VN127)
K28 – Upfit 2 (H567/VN127)
K29 – Upfit 3 (H567/VN127)
K30 – Upfit 4 (H567/VN127)
K32 – Latching Relay 1
K38 – Latching Relay 2 (VN127)
K52 – Upfit Run/Start / Dual Tank
K74 – Customer Run/ Accessory (H567/F5X)
K75 – Run/Accessory (H567)
K76 – Cargo Lamps (H567)
K77 – Stop Lamps
K79 – TT Battery Charge
K80 – BOO Isolation Hydromax (H567/F5X)
K81 – Wash Relay (VN127/F5X)
K82 – Customer Upfit Switch (H567/VN127)



BJB Printed Circuit Board showing relays

Model Years 2020 – Body Control Module (BCM) Fuses

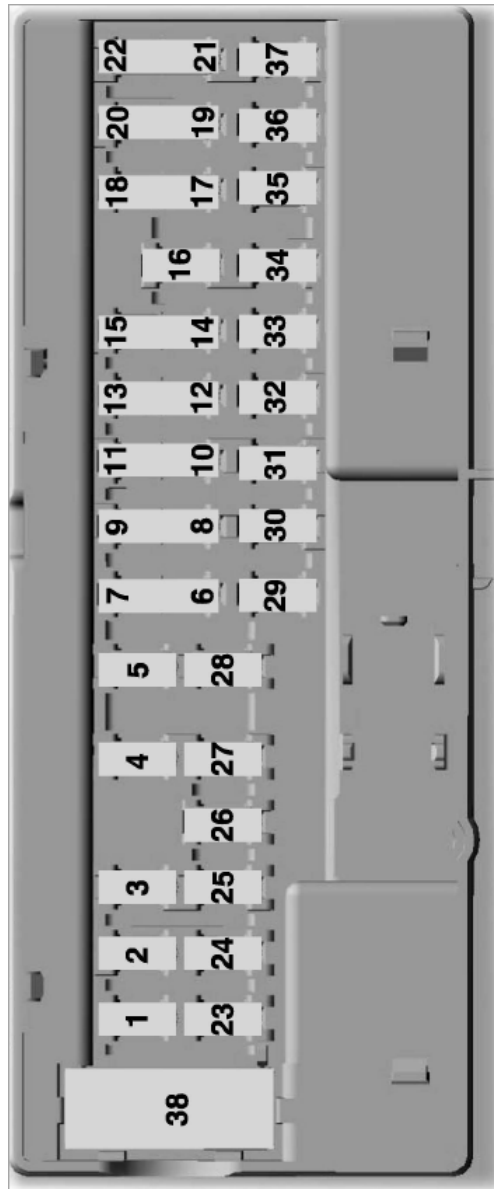
Location: This fuse panel is below and to the left-hand side of the steering wheel near the brake pedal. Remove the panel cover to access the fuses.



Fuse Number	Fuse Rating	Protected Component	FUSE TYPE
1	—	Not used.	
2	10 A	Run/accessory radio feed to body builder.	MICRO2
3	—	Not used.	
4	20 A	B+ feed to body builder connector.	MICRO2
5	—	Not used.	
6	10 A	Not used.	
7	10 A	Smart datalink connector.	MICRO3
8	—	Not used.	
9	—	Not used.	
10	—	Not used.	
11	—	Not used.	
12	7.5 A	Brake on-off switch.	MICRO3
13	7.5 A	Smart datalink connector.	MICRO3
14	15 A	Not used (spare).	MICRO3
15	15 A	Not used (spare).	MICRO3
16	—	Not used.	
17	7.5 A	Not used.	
18	7.5 A	Yaw sensor.	MICRO3
19	5 A	Telematics control unit module.	MICRO3

Model Years 2020 – Body Control Module (BCM) Fuses

Location: This fuse panel is below and to the left-hand side of the steering wheel near the brake pedal. Remove the panel cover to access the fuses.



Fuse Number	Fuse Rating	Protected Component	FUSE TYPE
20	5 A	Ignition switch.	MICRO3
21	5 A	Not used.	
22	5 A	Not used (spare).	MICRO3
23	30 A	Not used (spare).	MICRO2
24	30 A	Not used (spare).	MICRO2
25	20 A	Not used (spare).	MICRO2
26	30 A	Not used (spare).	MICRO2
27	30 A	Not used (spare).	MICRO2
28	30 A	Not used (spare).	MICRO2
29	15 A	Not used (spare).	MICRO2
30	5 A	Brake on-off signal to 14A348.	MICRO2
31	10 A	Instrument cluster. Steering column control module.	MICRO2
32	20 A	Not used (spare).	MICRO2
33	—	Not used.	
34	30 A	Not used (spare).	MICRO2
35	5 A	Tow haul switch.	MICRO2
36	15 A	Camera lane departure warning (commercial stripped chassis). Not used (spare) (Motorhome stripped chassis).	MICRO2
37	20 A	B+ to body builder connector.	MICRO2
38	30 A	Not used (spare).	

Note: Spare fuse storage tray.