

# CSC Encore TPMS/DCT Module Installation.

10/14/20

The TPMS/DCT module has two purposes.

1. It permanently turns off the TPMS (Tire Pressure Monitoring System) light on the dash of the trike. **The low-pressure warning light and pressure display for the front wheel will continue to work as normal.** The rear wheel pressure display will permanently read 0 psi.
2. It corrects a rear wheel speed value discrepancy. This discrepancy may cause the motorcycle computer to mistime some DCT shifting events. Some Honda Goldwing motorcycles with the DCT automatic transmission are more sensitive to the Encore trike kit and may have problems with shifting out of first gear when accelerating rapidly.

Notes:

**Adding this module to the Encore trike modifies critical electrical circuitry in the Honda wire harness. If not done correctly it can cause the motorcycle to not start or run. Therefore, these instructions must be followed exactly as they are shown below.**

**If this module were to fail it can be bypassed by simply unplugging the CSC wire harness from the "active" connector on the module and then plugging back into the "passive" connector on the module. This returns all electrical functions back to OEM Honda specs.**

**When your motorcycle was converted to a trike, the functionality of the rear tire pressure monitor was disabled. Please check your rear tire pressures on a regular basis. Recommended tire pressures for typical riding loads is as follows: 215/45-17 tires: 25psi, 205/55-16 tires: 27psi.**

## Installation Procedure:

1. Check to make sure trike has a 27-tooth rear wheel speed pulsar ring (Park Brake Rotor). If it has a 28-tooth ring (uncommon) then this has to be changed for a 27-tooth ring. See separate instructions for how to change this ring.
2. Remove left side (battery) cover, right side cover and trike seat.
3. Disconnect negative battery cable.
4. Remove left side lower fairing, left side mirror, and raise left side of shelter cover per Honda instructions.
5. Place and route the CSC wire harness.
6. Find the CAN BUS junction connector under the seat.
7. Remove covering around the wire harness coming out of connector and expose the wires.
8. Identify the correct red and white wires (see attached photos, **Please note that Goldwing Tour and Goldwing standard have different wire pairs**) and cut them approximately in the middle of the exposed section or wherever allows for the most access for splicing.
9. Connect the wires (red/black stripe and white/black stripe) from the CSC harness to the OEM Honda wire harness corresponding color wires. Use lineman's splice (see picture) and heat shrink/solder supplied connectors. **Do not use any other type of connector.** Use included

aluminum sheet for a heat shield while shrinking connector if required. **Be careful not to melt wire insulation.**

10. Connect the wires (red and white) from the CSC harness to the OEM Honda connector corresponding color wires. Use lineman's splice and heat shrink/solder supplied connectors. **Do not use any other type of connector.** Use included aluminum sheet for a heat shield while shrinking connector if required. **Be careful not to melt wire insulation.**
11. Replace all wire covering and add tape if necessary.
12. Find the grey ECM connector.
13. Identify the correct blue and yellow wires (see attached photo) and cut them approximately in the middle of the exposed section or wherever allows for the most access for splicing.
14. Connect the wires from the CSC harness (blue/white stripe and yellow/white stripe) to the OEM Honda wire harness corresponding color wires. Use lineman's splice and heat shrink/solder supplied connectors. **Do not use any other type of connector.** Use included aluminum sheet for a heat shield while shrinking connector if required. **Be careful not to melt wire insulation.**
15. Connect the wires from the CSC harness (blue and yellow) to the OEM Honda connector corresponding color wires. Use lineman's splice and heat shrink/solder supplied connectors. **Do not use any other type of connector.** Use included aluminum sheet for a heat shield while shrinking connector if required. **Be careful not to melt wire insulation.**
16. Replace all wire covering and add electrical tape if necessary.
17. Route and attach positive and ground wires to motorcycle fuse box (see photo).
18. Plug module into CSC harness on the "passive" side and temporarily place module.
19. Reattach negative battery cable.
20. Start trike and verify all lights work and transmission notifications are present.
21. Turn off trike.
22. Reconnect CSC harness to "active" side of module. Permanently place module.
23. Start trike to test for TPMS rear tire pressure (should be 0) and transmission notification.
24. Replace all body parts and seat.
25. Test ride trike.
26. Finished.

Enjoy the Ride!

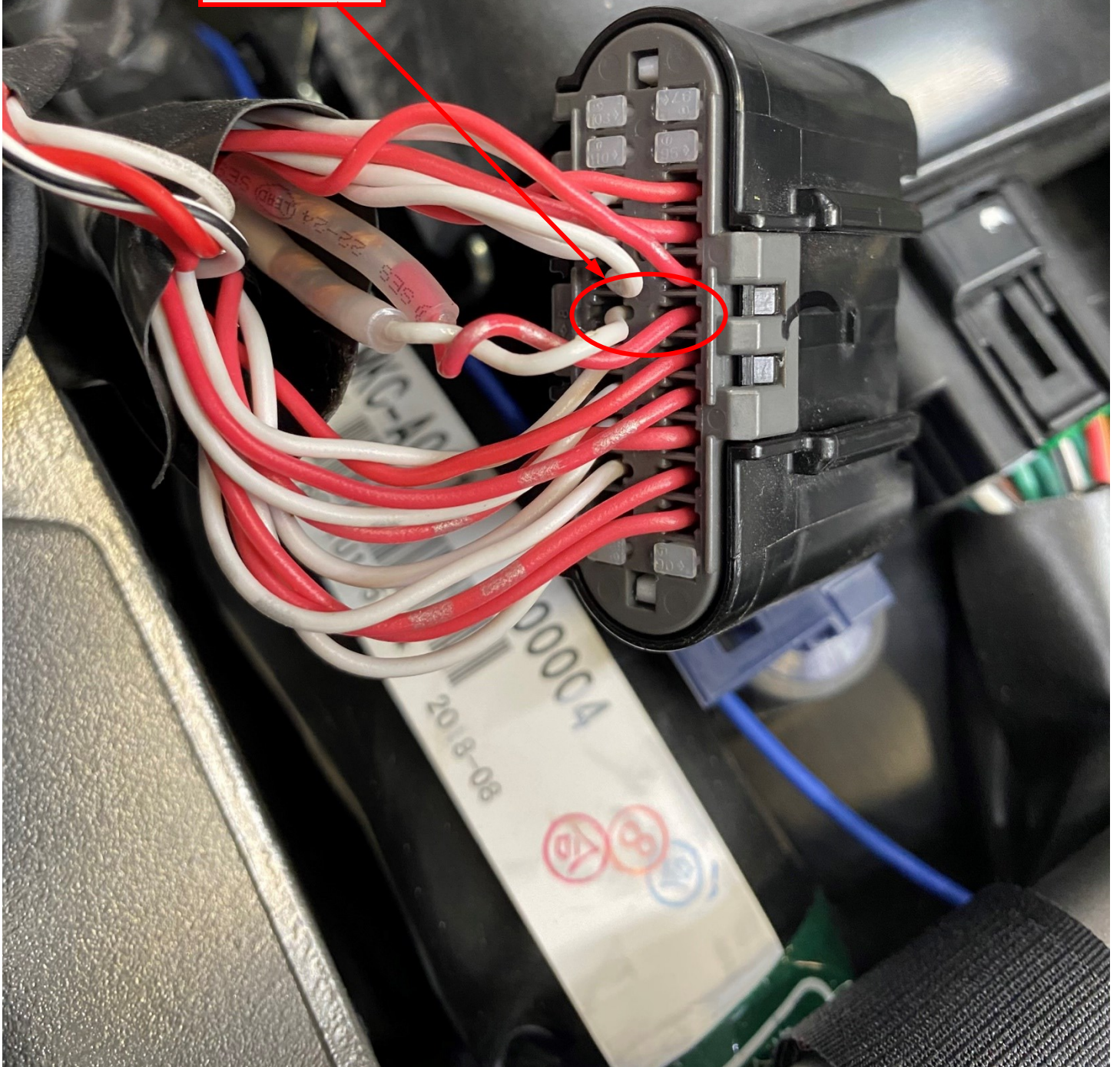
Items included in upgrade kit.

- (1) TPMS/DCT Module (ELC-20501)
- (1) Wire Harness (ELC-13663)
- (10) Solder/Shrink Splice Connectors (ELC-22903)
- (5) Small Zip Ties
- (5) Large Zip Ties
- (1) Aluminum Sheet (BDY-0013)

WIRE HARNESS ROUTING INSTALL



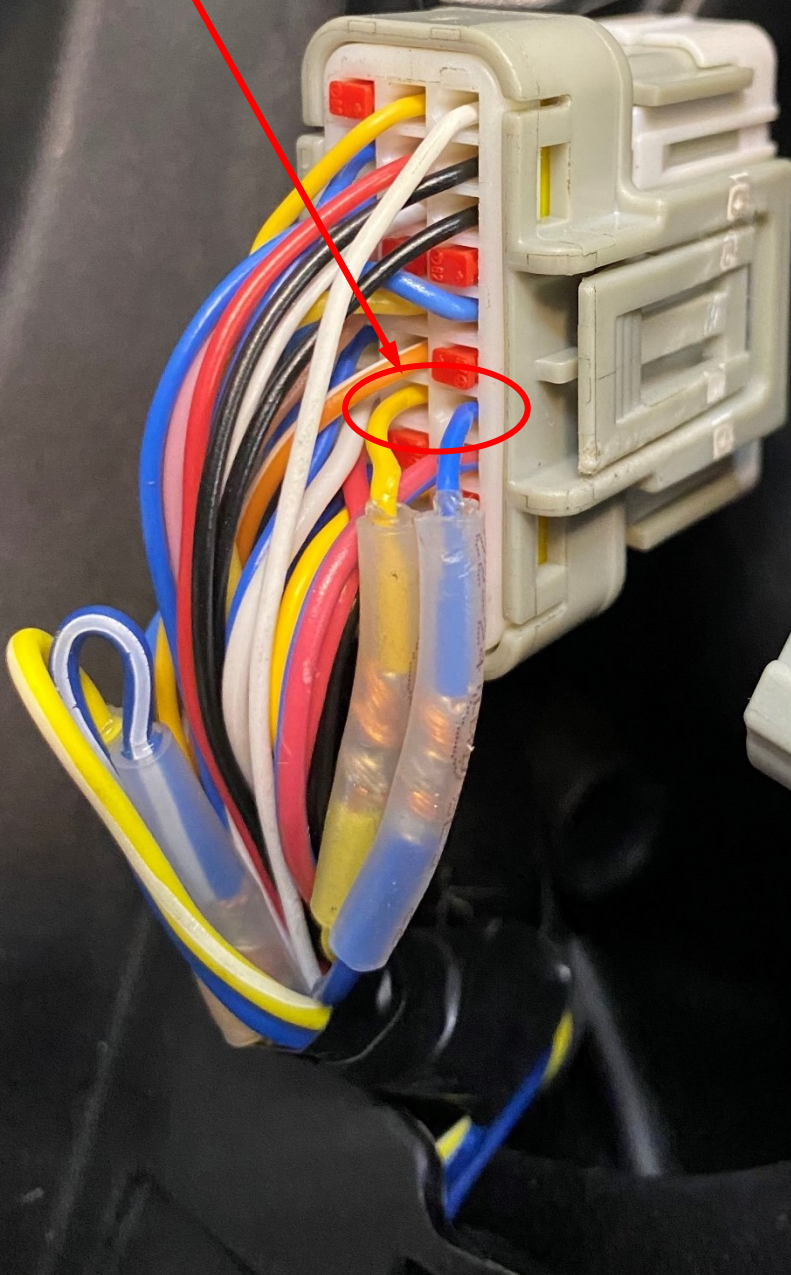
GOLDWING TOUR DCT  
CAN BUS CONNECTOR  
THIS IS THE WIRE PAIR THAT  
NEEDS TO BE SPLICED



GOLDWING STANDARD DCT  
CAN BUS CONNECTOR  
THIS IS THE WIRE PAIR THAT NEEDS TO  
BE SPLICED



GOLDWING  
STANDARD & TOUR  
DCT  
ECU CONNECTOR



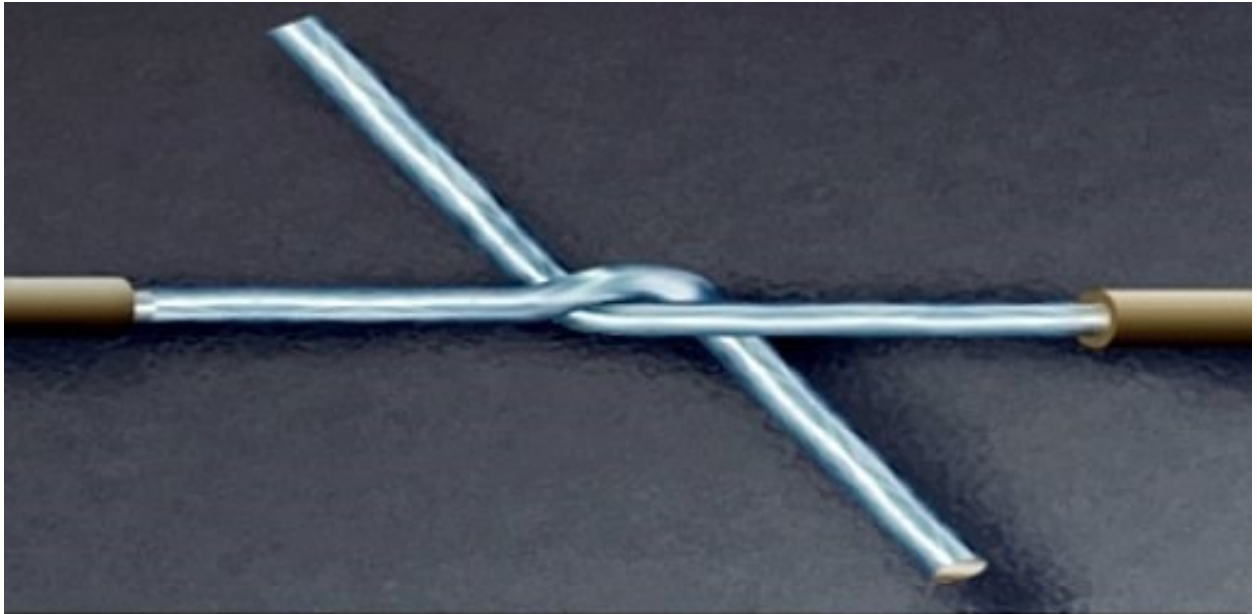


CONNECT BLACK WIRE (GROUND) TO THIS TERMINAL

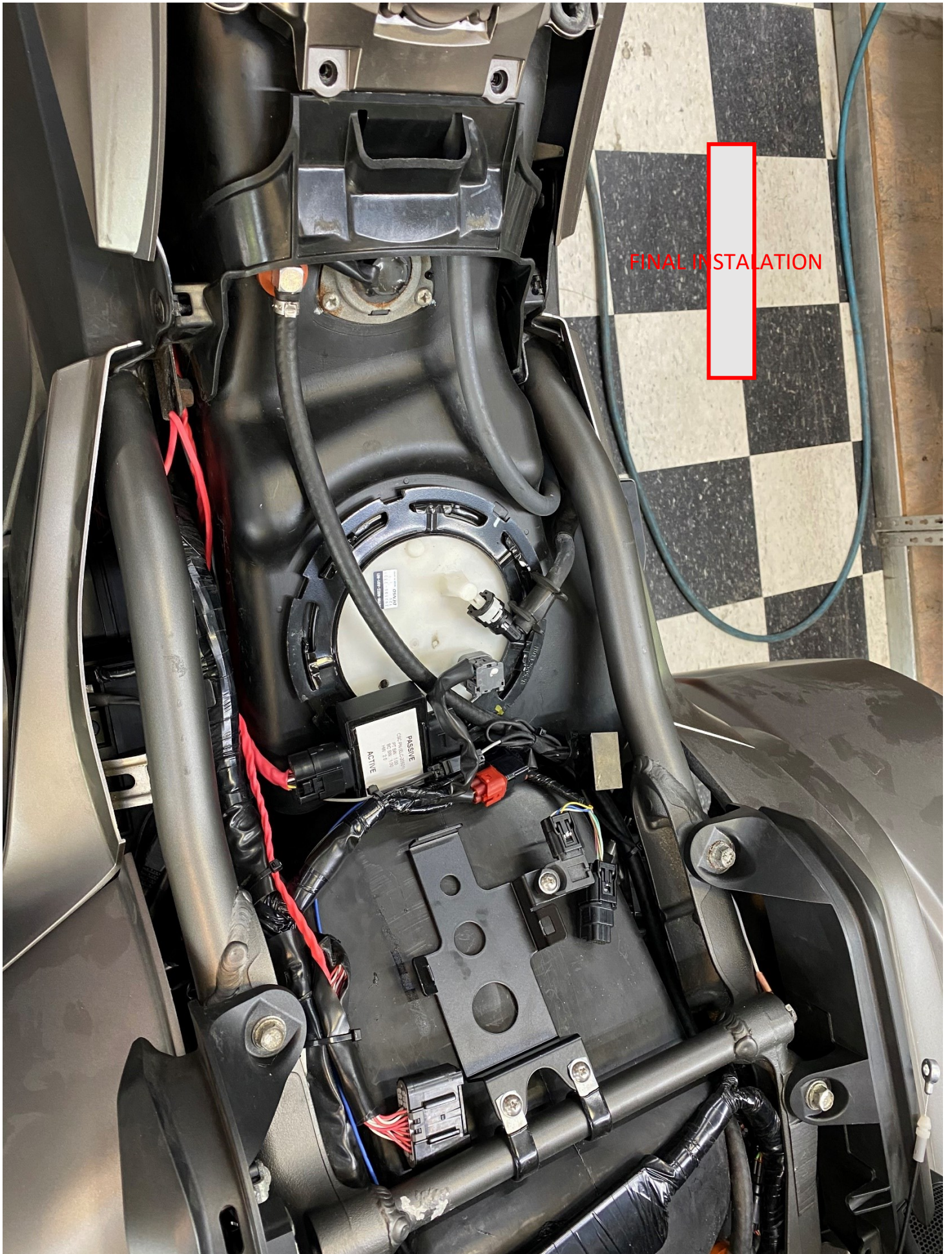
CONNECT RED WIRE (POSITIVE) TO THIS TERMINAL

IGN MAIN 30A  
ACC MAIN 20A

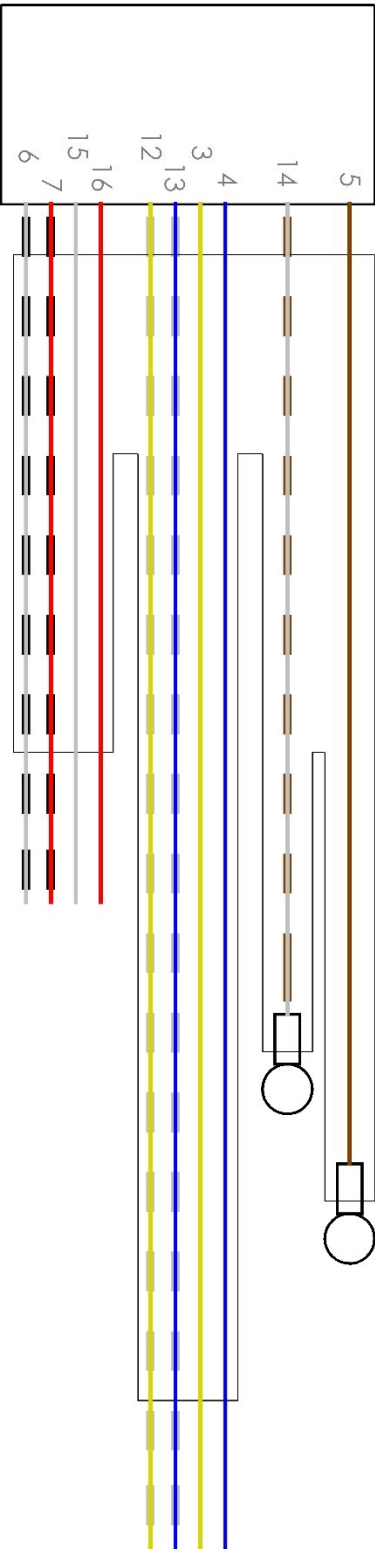
# Lineman's Splice







FINAL INSTALLATION



WIRE COLORS	
BROWN	12V CONTINUOUS (RED WIRE COVER)
WHITE/BROWN	GROUND (BLACK WIRE COVER)
BLUE	ECM CONNECTOR
YELLOW	ECM CONNECTOR
BLUE/WHITE	WIRE HARNESS (TO TCM)
YELLOW/WHITE	WIRE HARNESS (TO TCM)
RED	BUS CONNECTOR
WHITE	BUS CONNECTOR
RED/BLACK	WIRE HARNESS (TO SCU)
WHITE/BLACK	WIRE HARNESS (TO SCU)

UNLESS OTHERWISE SPECIFIED:  
 ALL DIMENSIONS ARE IN INCHES. DO NOT SCALE DRAWING.  
 ALL THREAD FITS TO BE 2A (EXTERNAL) OR 2B (INTERNAL)

APPROVALS	DATE
DRAWN BY TODD WIGHTMAN	19-MAY-2020

TOLERANCES:	
DECIMAL:	X.XXX ± 0.010
FRACTIONAL:	1/8

CHECK	
APPROVED	

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100 MOTORCYCLE RUN, ARRINGTON, VA 22922

**California Side Car inc.**

TITLE

**WIRE HARNESS, CAN BUS, ENCORE**

SIZE

**A**

PART NUMBER

**ELC-13663**

REV

**A**

SCALE

1:1

VENDOR DRW NUMBER

N/A

SHEET

2 OF 2