

# CSC Encore TPMS/DCT Module Installation.

5/7/21

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. (picture 1)
7. Remove covering around the wire harness coming out of connector and expose the wires.
8. Identify the correct red and white wires (picture 2,) 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 (red/black to red and white/black to white). Use lineman’s splice (picture 8) 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 OEM 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 OEM wire insulation.**
11. Replace all wire covering, add tape if necessary and reattach connector.
12. Find the grey TCM connector (picture 1).
13. Identify the correct blue and yellow wires (picture 3) 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 (blue/white to blue and yellow/white to yellow). 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 OEM 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 OEM wire insulation.**
16. Replace all wire covering and add electrical tape if necessary.
17. Remove trike fuse box (picture 4) and rear cover. (picture 5)
18. Install fuse clip positive wire and ring terminal ground wire into fuse box. (picture 6)
19. Route harness along with OEM wires out of fuse box and reassemble and reinstall fuse box.
20. Insert included 2A fuse into new fuse location. Install included decal on fuse cover and reassemble (picture 7).
21. Plug TPMS/DCT module into CSC harness on the "passive" side and temporarily place module.
22. Reattach negative battery cable.
23. Start trike and verify all lights work and transmission notifications are present.
24. Turn off trike.
25. Reconnect CSC harness to "active" side of module. Permanently place module (picture 9).
26. Start trike to test for TPMS rear tire pressure (should be 0) and transmission notification.
27. Replace all body parts and seat.
28. Test ride trike.
29. 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)
- (1) Hex Key Wrench 6mm
- (1) Decal, 2A
- (1) Fuse, 2A





WIRE HARNESS ROUTING INSTALL

GREY TCM  
CONNECTOR

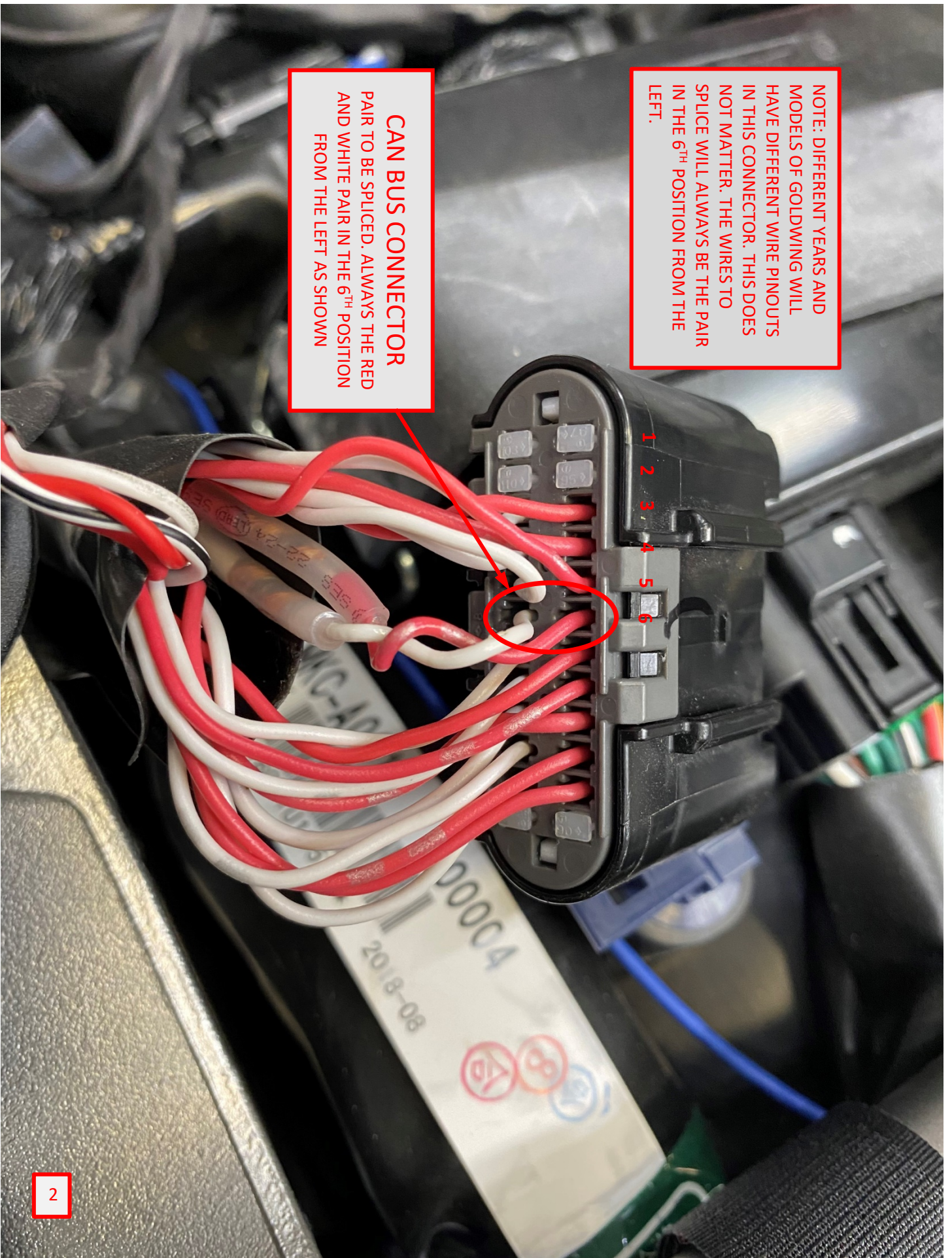
CAN BUS  
CONNECTOR

1



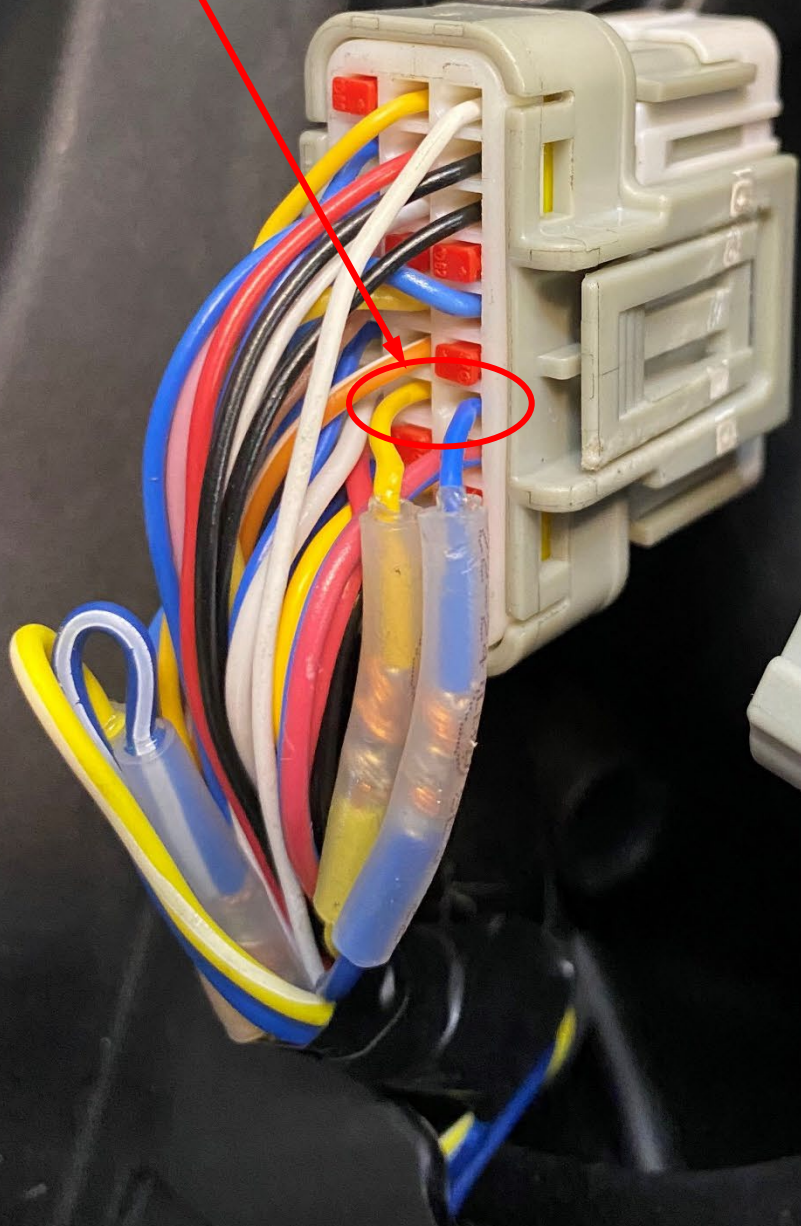
NOTE: DIFFERENT YEARS AND MODELS OF GOLDWING WILL HAVE DIFFERENT WIRE PINOUTS IN THIS CONNECTOR. THIS DOES NOT MATTER. THE WIRES TO SPlice WILL ALWAYS BE THE PAIR IN THE 6<sup>TH</sup> POSITION FROM THE LEFT.

CAN BUS CONNECTOR PAIR TO BE SPliced. ALWAYS THE RED AND WHITE PAIR IN THE 6<sup>TH</sup> POSITION FROM THE LEFT AS SHOWN





GOLDWING  
STANDARD & TOUR  
DCT  
ECU CONNECTOR







REMOVE SCREWS TO  
GAIN ACCESS TO BACK  
SIDE OF FUSE BOX

UNCLIP FUSE  
HOLDERS



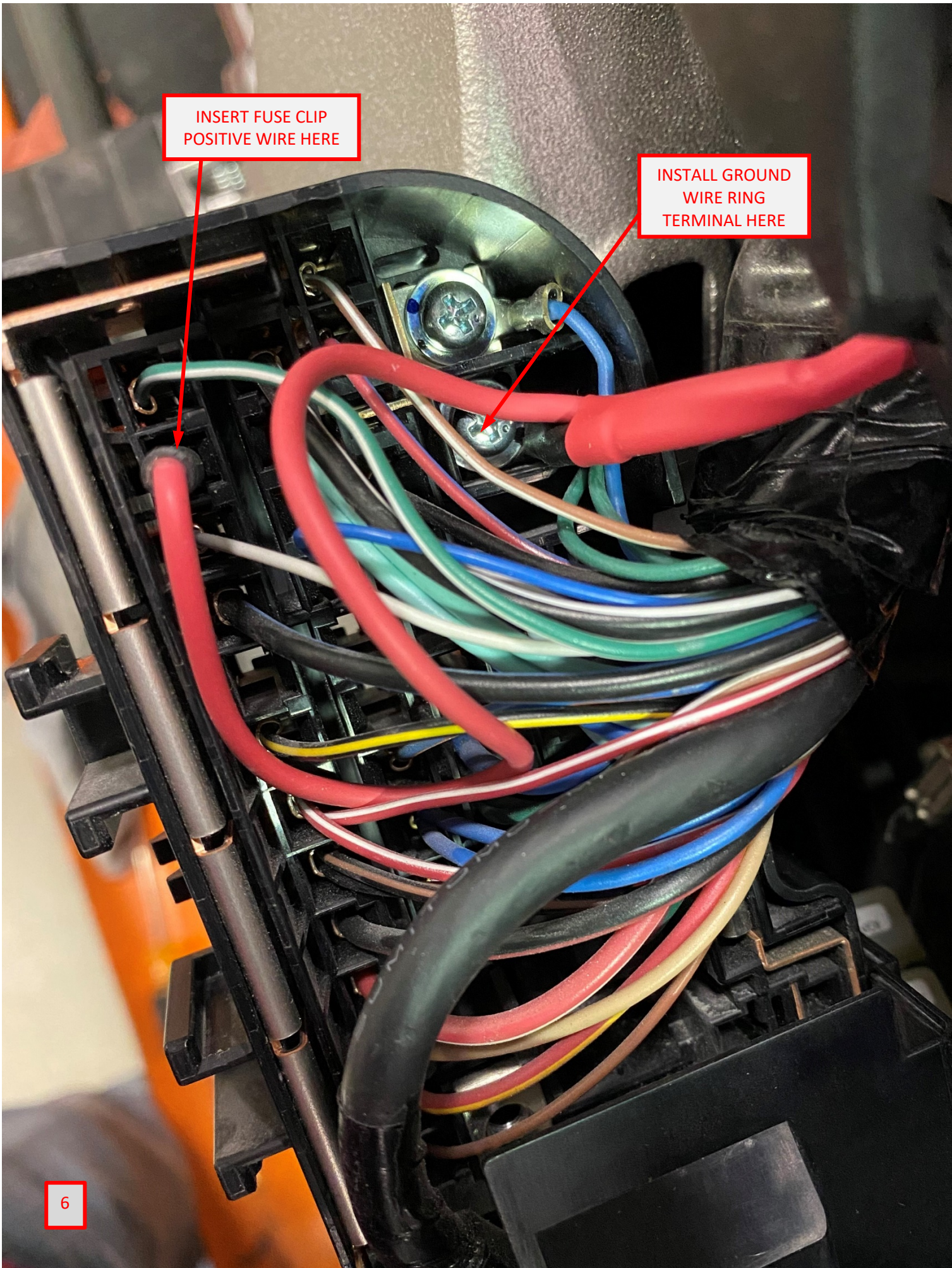


REMOVE COVER ON  
BACK SIDE OF FUSE  
BOX

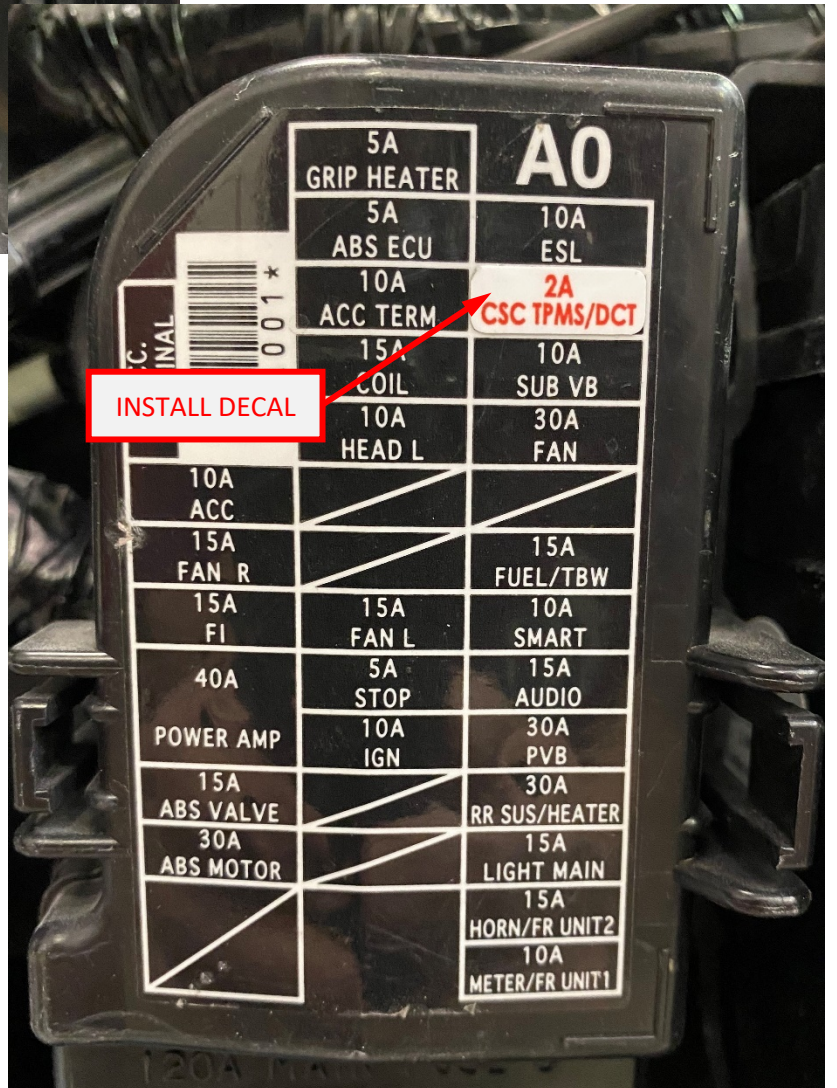


INSERT FUSE CLIP  
POSITIVE WIRE HERE

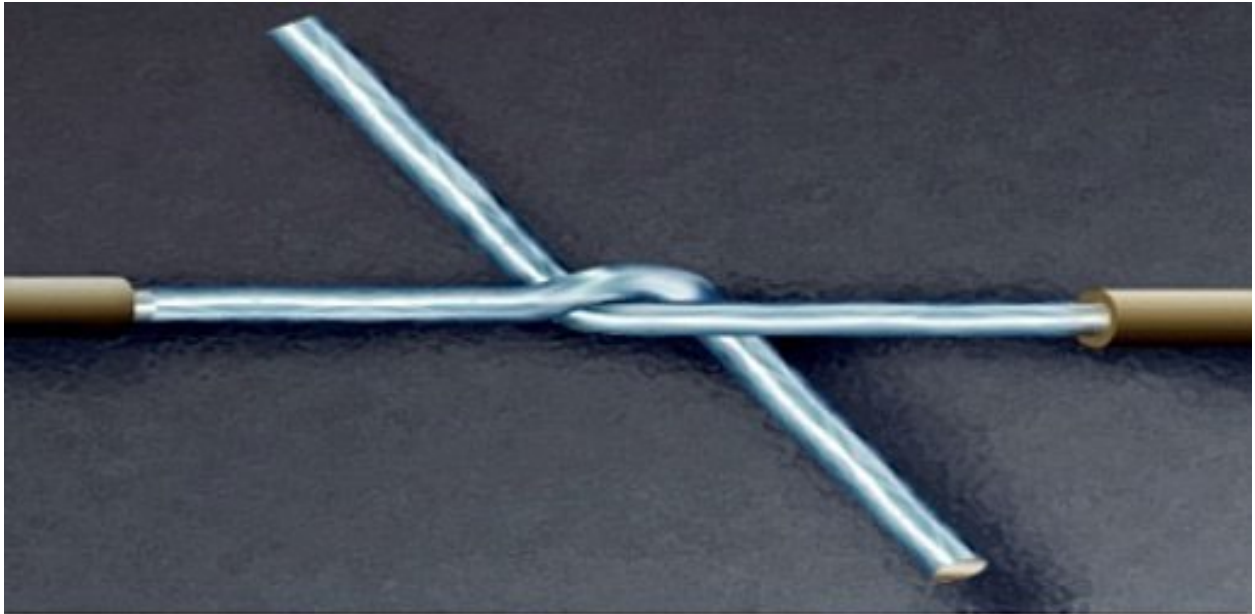
INSTALL GROUND  
WIRE RING  
TERMINAL HERE





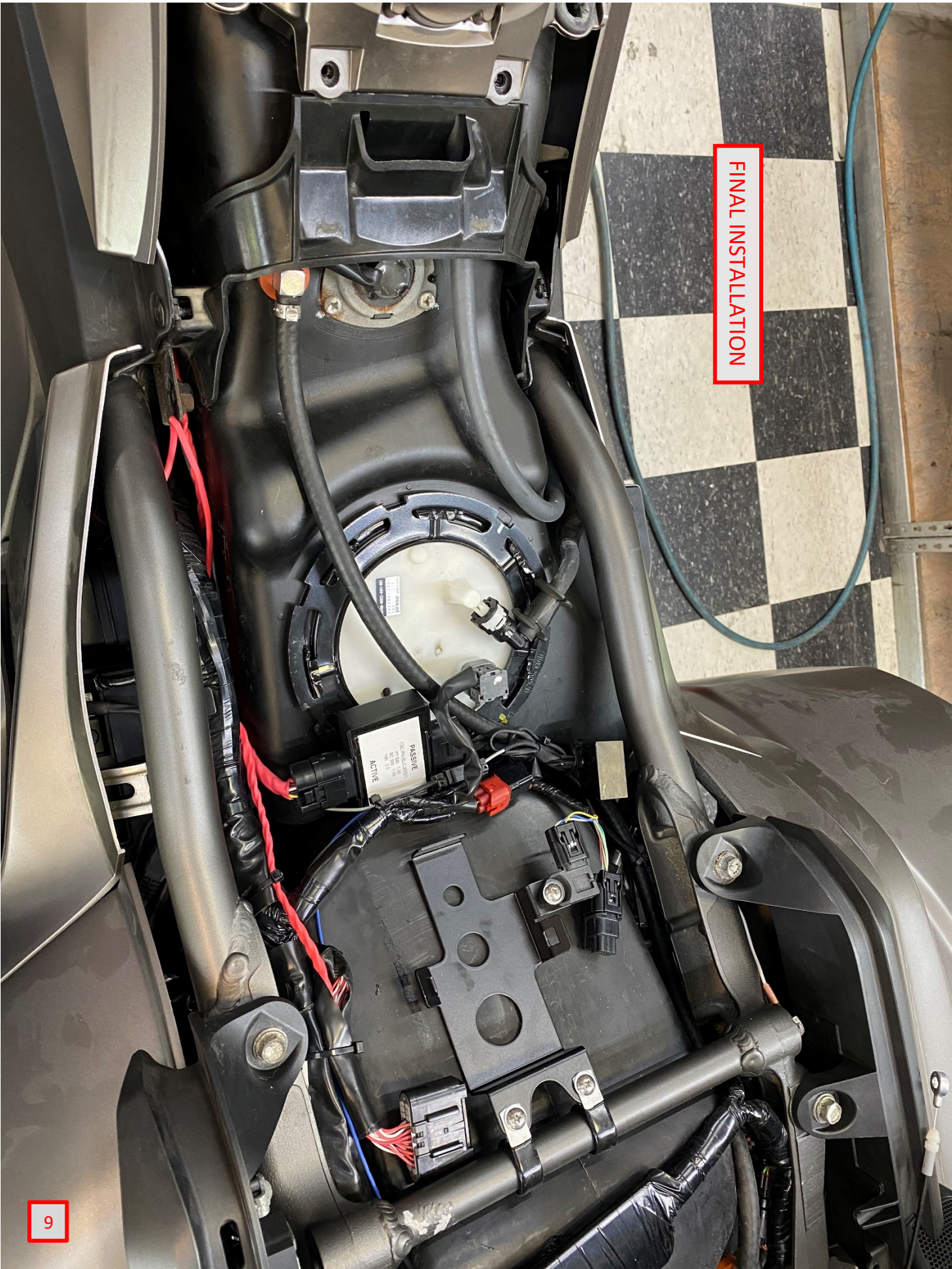


# Lineman's Splice

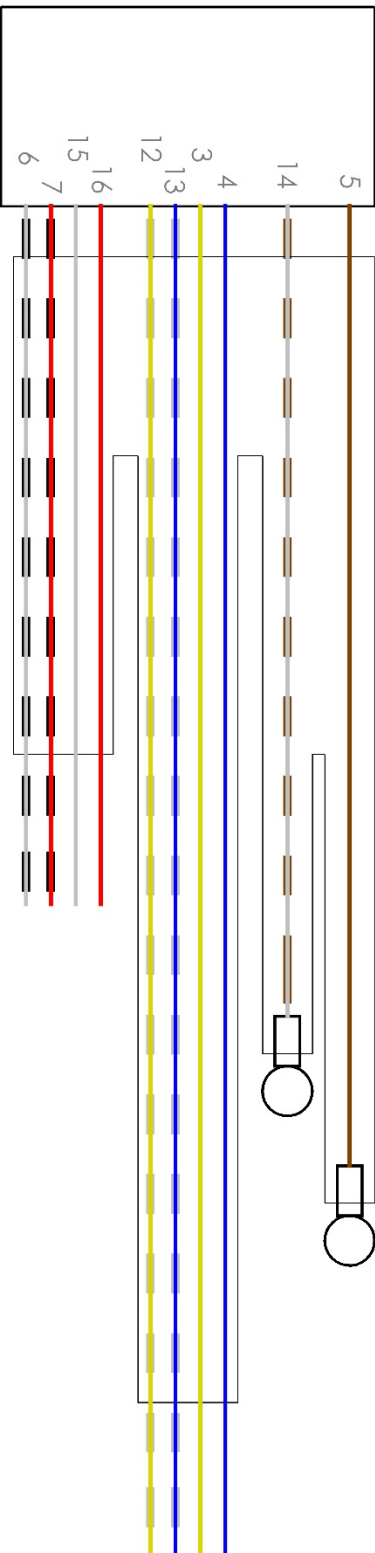




FINAL INSTALLATION







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

CHECK	
APPROVED	

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

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**California Side Car inc.**  
 100 MOTORCYCLE RUN, ARRINGTON, VA 22922

TITLE  
**WIRE HARNESS, CAN BUS, ENCORE**

SIZE	PART NUMBER	SCALE	VENDOR DRW NUMBER	SHEET
A	ELC-13663	1:1	N/A	2 OF 2