2024+ Toyota Land Cruiser LC 250/Lexus GX550– 24 Gallon Auxiliary fuel tank

Product Information/Install Instructions for

Toyota LC250 Lexus GX550 24G fuel tank

Kit P/N TLCP250RA





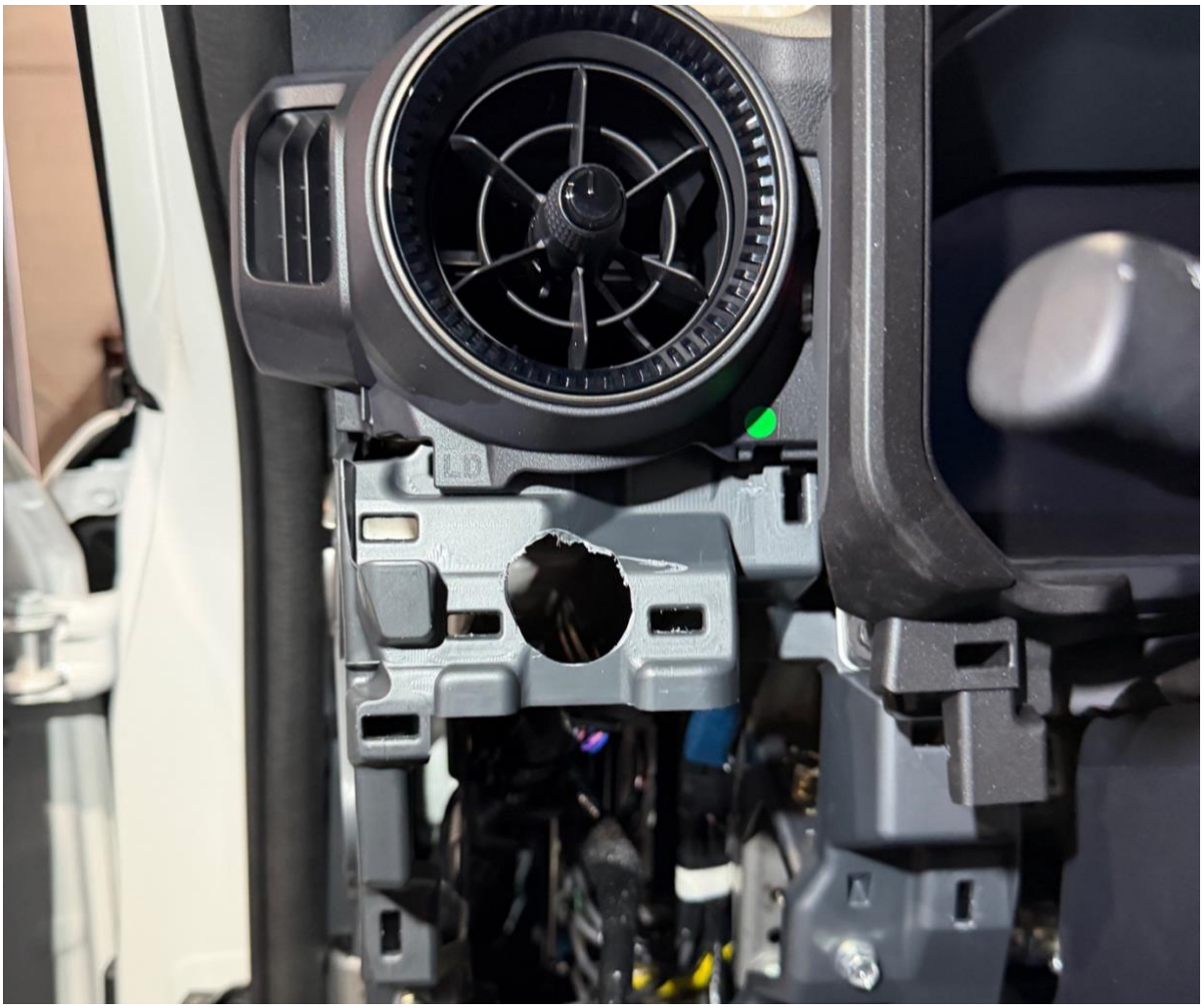
NOTE: This product is NOT FOR SALE TO, OR USE BY, CALIFORNIA RESIDENTS. This product has not been approved, certified, rated or otherwise passed upon by any Federal or State regulatory agency

Brass:	Electrical:
○ 1 x P3 5/16 X 1/8 Straight ○ 1 x P6 5/16 X 1/4 Elbow ○ 1 x TS 16 Tee	○ 1 x LRA-PG210 Switch Gauge ○ 1 x 3mm Two Core @ 5000mm ○ 1 x AFNLPPTO Fuse holder ○ 1 x AFN5LP Fuse ○ 1 x Red Insulated Terminal ○ 1 x Red Eye Terminal ○ 1 x Blue 6mm Eye Terminal ○ 4 x 3mm shrink tube @ 30mm. ○ 1 x WG2 Grommet
Bolts / Nuts:	**Misc Parts:**
○ 2 x M8 x 25 Bolts ○ 1 x M8 x 30 Bolt ○ 3 x M10 x 30 Bolts ○ 1 x M10 x 50 Bolt ○ 1 x M12 x 30 Bolt ○ 5 x M8 x 25 Washers ○ 9 x M8 x 20 Washers ○ 1 x M8 Spring Washer ○ 4 x M10 x 25 Washers ○ 1 x M12 Spring Washers ○ 7 x M8 Nyloc Nuts ○ 1 x M10 Nyloc Nut ○ 1 x M12 Nyloc Nut ○ 6 x M5 x 10 Cap Screws ○ 11 x M5 Spring Washers ○ 2 x M12 H/D Washer ○ 5 x M5 Pan Head Screws ○ 1 x M10 126 HD Washer ○ 2 x M10 Nut with 300 Wire ○ 1 x M10 Nuts with 200 Wire ○ 3 x M10 Spring Washers ○ 4 x M8 x 20 Bolts ○ 1 x M12 Nuts with 200 Wire ○ 1 x M12 x 30 Bolt with 200 strap ○ 2 x TEK Screws 25mm	○ 1 x Rear Secondary Bracket. NO2 ○ 1 x Front Secondary Bracket ○ 1 x Large Cup Washer ○ 1 x Cup Washer Rubber ○ 1 x O-ring BS337 ○ 1 x FLVV 60/16 ○ 1 x Fill Pipe (FPTLCP250SA) ○ 1 x XH Notion ICV ○ 1 x Fuel Pump Mount Plate ○ 1 x M8 x 20 Bolt With 200 Wire
Hose Clamps:	**Hose:**
○ 4 x 1/4 Hose Clamps ○ 2 x 1/2 Hose Clamps ○ 2 x 5/8 Hose Clamps ○ 6 x 1 1/4 Hose Clamps	○ 1 x 8mm Hose @ 1200 ○ 3 x 35mm Hose @ 150 ○ 1 x 16mm NTP Hose @ 1200
Pumps & Filters:	**Cable Ties:**
○ 1 x 020 Fuel Pump	
Sender:	**Pages of Fitting Instructions Consisting of:**
○ 1 x 0-90 OHM Sender Unit	○ 1 x Page Fitting kit Contents

This auxiliary tank fits under the rear of the vehicle and takes place of the spare wheel. Fuel is transferred via an electric pump that will pump fuel from the auxiliary tank into the OEM tank. A combination switch/gauge will be located into a suitable position in the dash. When the switch is in operation an ORANGE light will be ON, indicating the transfer pump is in operation. A series of lights will also indicate fuel level. All GREEN lights on showing FULL, one RED flashing light showing EMPTY.

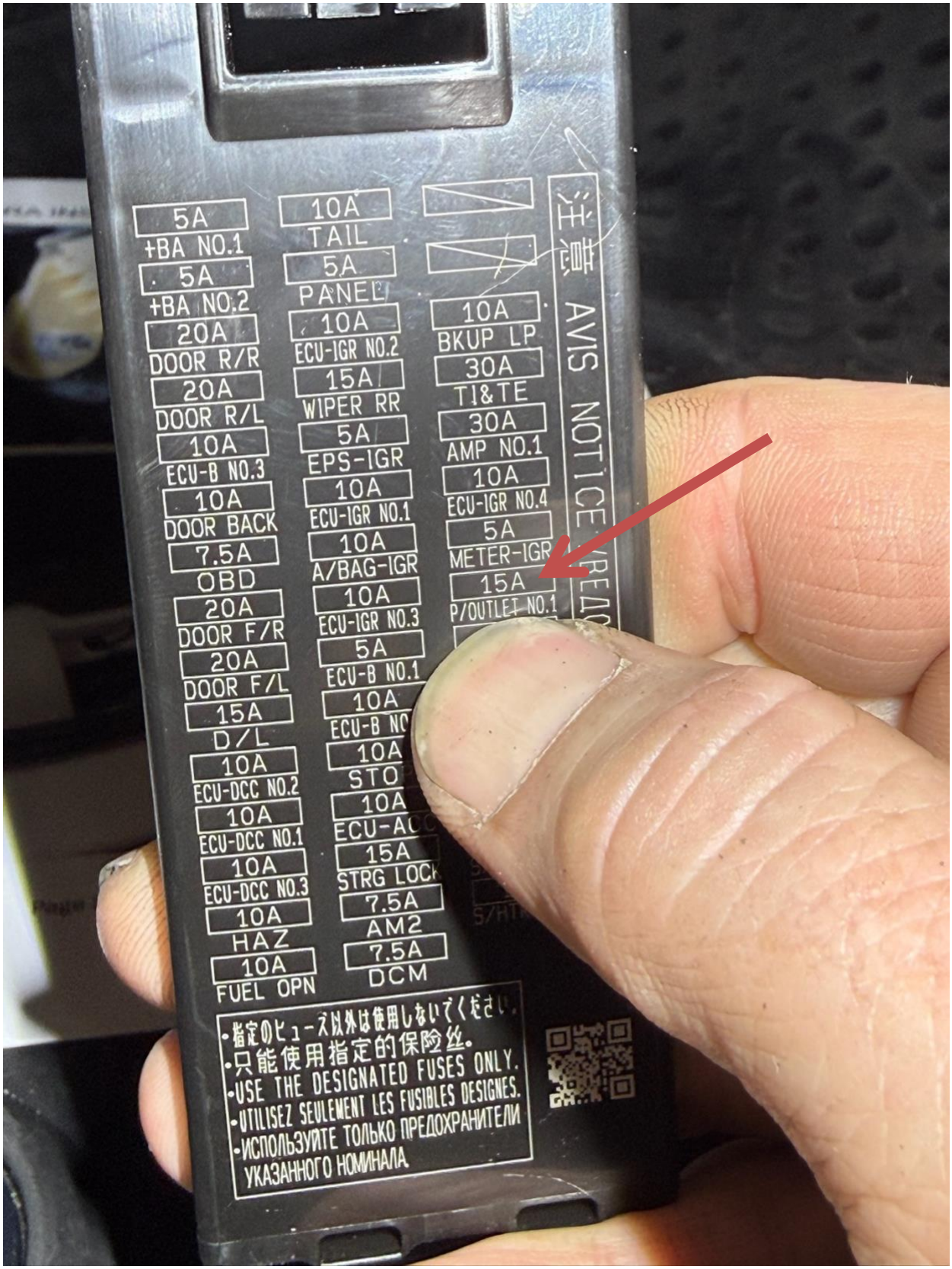
(DO NOT OPERATE TRANSFER PUMP WITH NO FUEL IN THE AUXILIARY TANK OR PUMP FAILURE COULD OCCUR).

1. Select a suitable location in the dash to mount the switch/gauge unit. We suggest loading it into the facia panel to the LHS of the steering column, drill a 6mm Pilot hole then remove the fascia and drill a 20mm hole (Refer Pic 1 & 1A). You will need to remove some plastic from behind the facia panel as well.





2. A 12-volt ignition power source can be found from the fuse panel above the Passenger footwell, remove the black cover and locate the fuse box on the RHS. Run the red wire from the switch under the steering colum an underneath the dash above the transmission tunnel using a metal fish wire to pull it through from left to right.

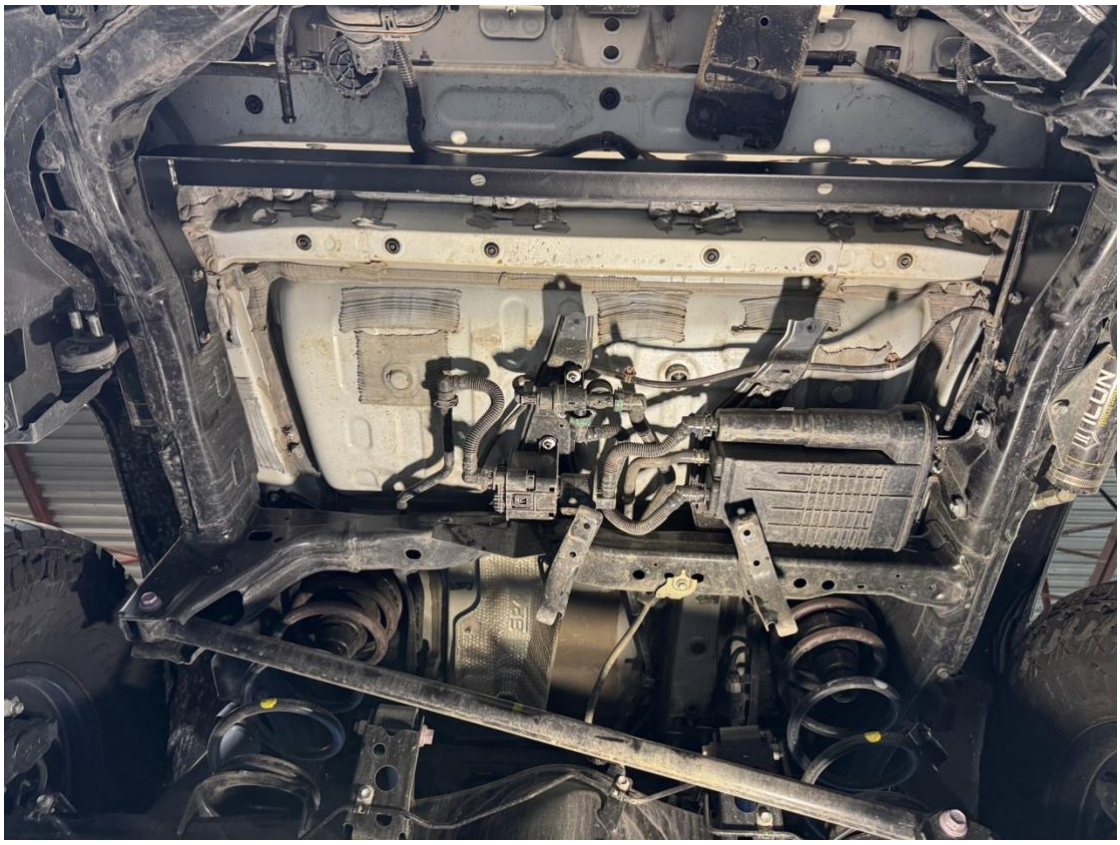

5A
+BA NO.1
5A
+BA NO.2
20A
DOOR R/R
20A
DOOR R/L
10A
ECU-B NO.3
10A
DOOR BACK
7.5A
OBD
20A
DOOR F/R
20A
DOOR F/L
15A
D/L
10A
ECU-DCC NO.2
10A
ECU-DCC NO.1
10A
ECU-DCC NO.3
10A
HAZ
10A
FUEL OPN
10A
TAIL
5A
PANEL
10A
ECU-IGR NO.2
15A
WIPER RR
5A
EPS-IGR
10A
ECU-IGR NO.1
10A
A/BAG-IGR
10A
ECU-IGR NO.3
5A
ECU-B NO.1
10A
10A
STO
10A
15A
7.5A
AM2
7.5A
DCM
10A
BKUP LP
30A
TI&TE
30A
AMP NO.1
10A
ECU-IGR NO.4
5A
METER-IGR
15A
注意 AVIS NOTICE
•指定のヒューズ以外は使用しないでください。
•只能使用指定的保险丝。
•USE THE DESIGNATED FUSES ONLY.
•UTILISEZ SEULEMENT LES FUSIBLES DESIGNES.
•ИСПОЛЬЗУЙТЕ ТОЛЬКО ПРЕДОХРАНИТЕЛИ УКАЗАННОГО НОМИНАЛА.

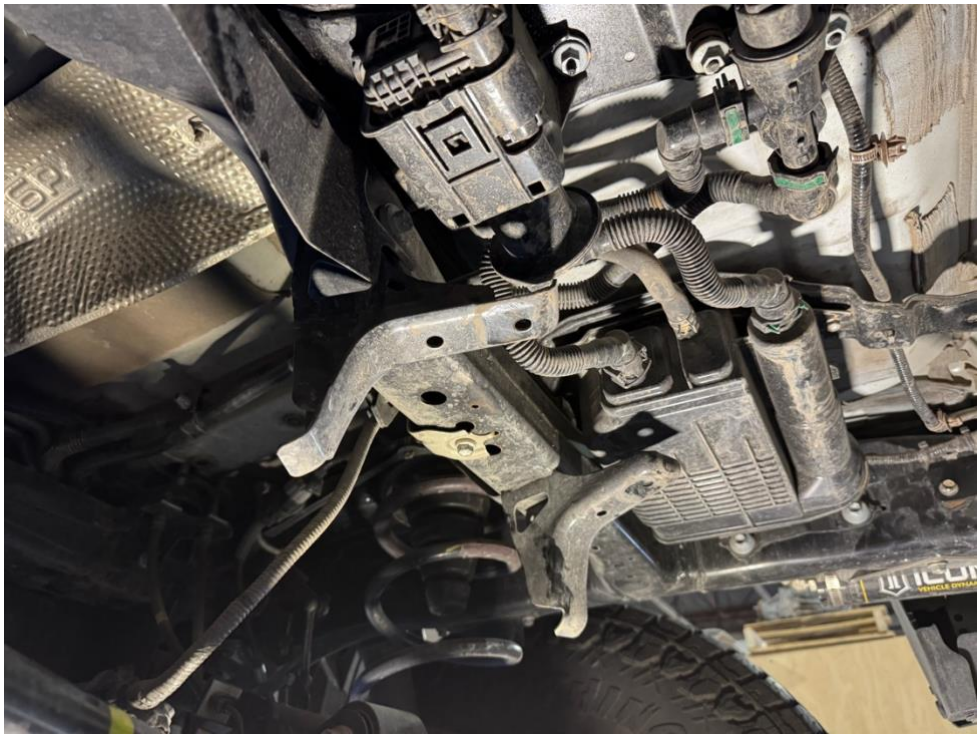
Use the AFN5LP fuse holder to pick up the power from PWR Outlet 1 Complete the wiring as per diagram and run the twin core sheathed cable under the tread plates, Connect black ground to the open M6 threaded hole on the dash crossmember. Connect the white and yellow sheathed wire to the switch at the bottom of the A pillar. After which this can be run through the grommet just under the driver seat(Note it will be easier to run the wire from the underneath of the car into the cab first.)





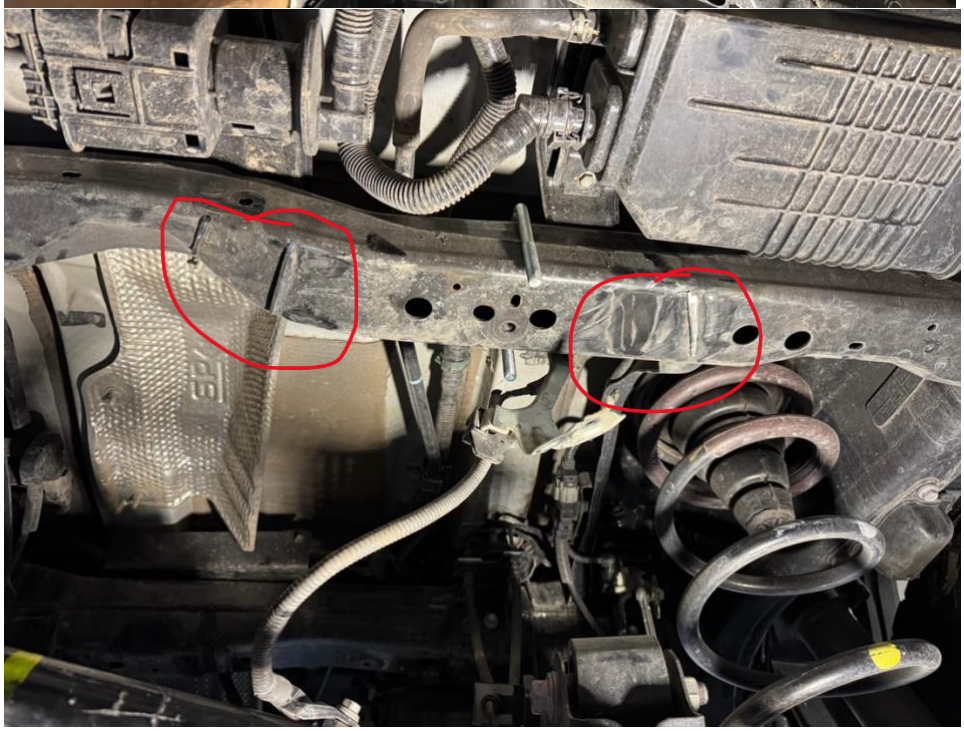
3. Remove the spare wheel and the OE wheel carrier.



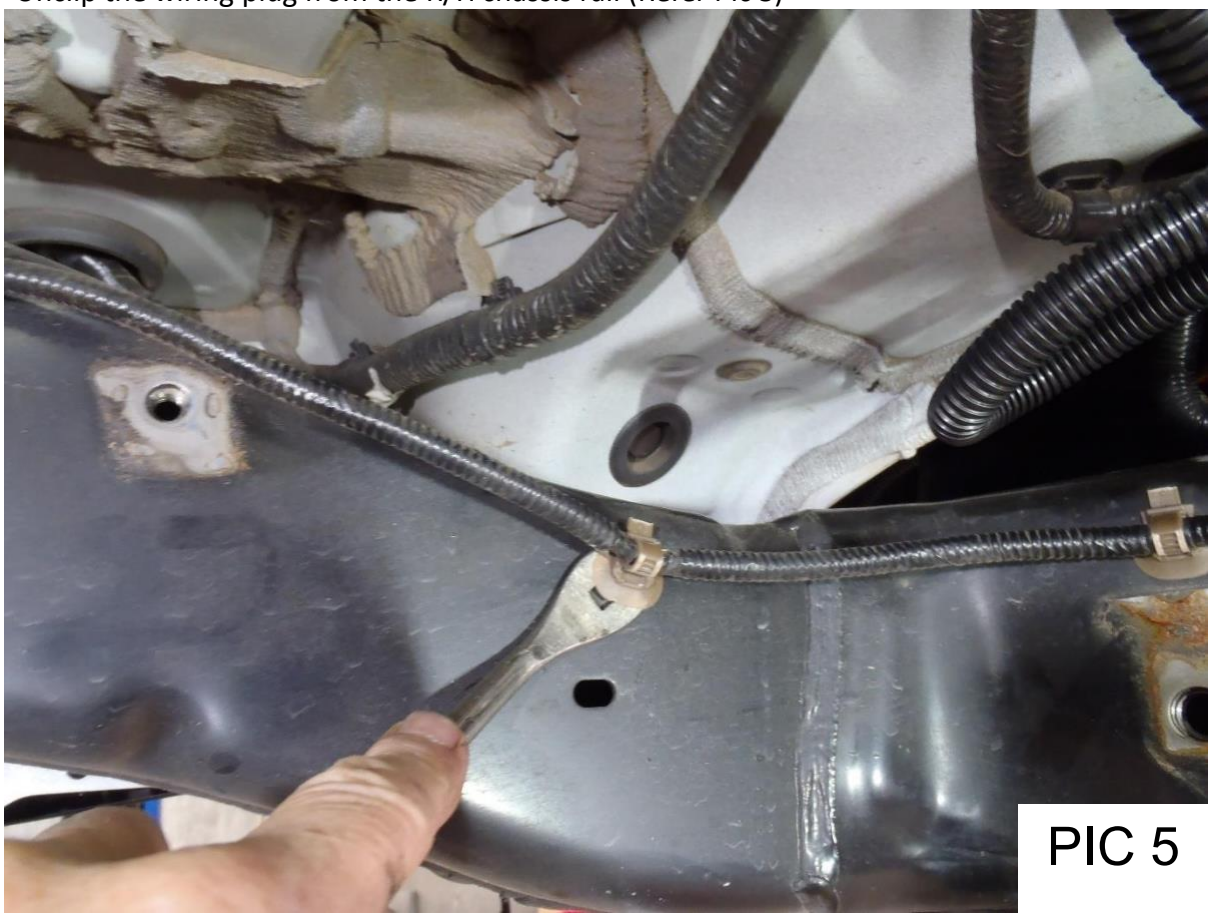


4. Neatly trim the 2 tire locator brackets from the cross member and paint the cut area. The R/H one needs to be flush as the bracket Fits under here.(Refer Pic 4 & 4A)





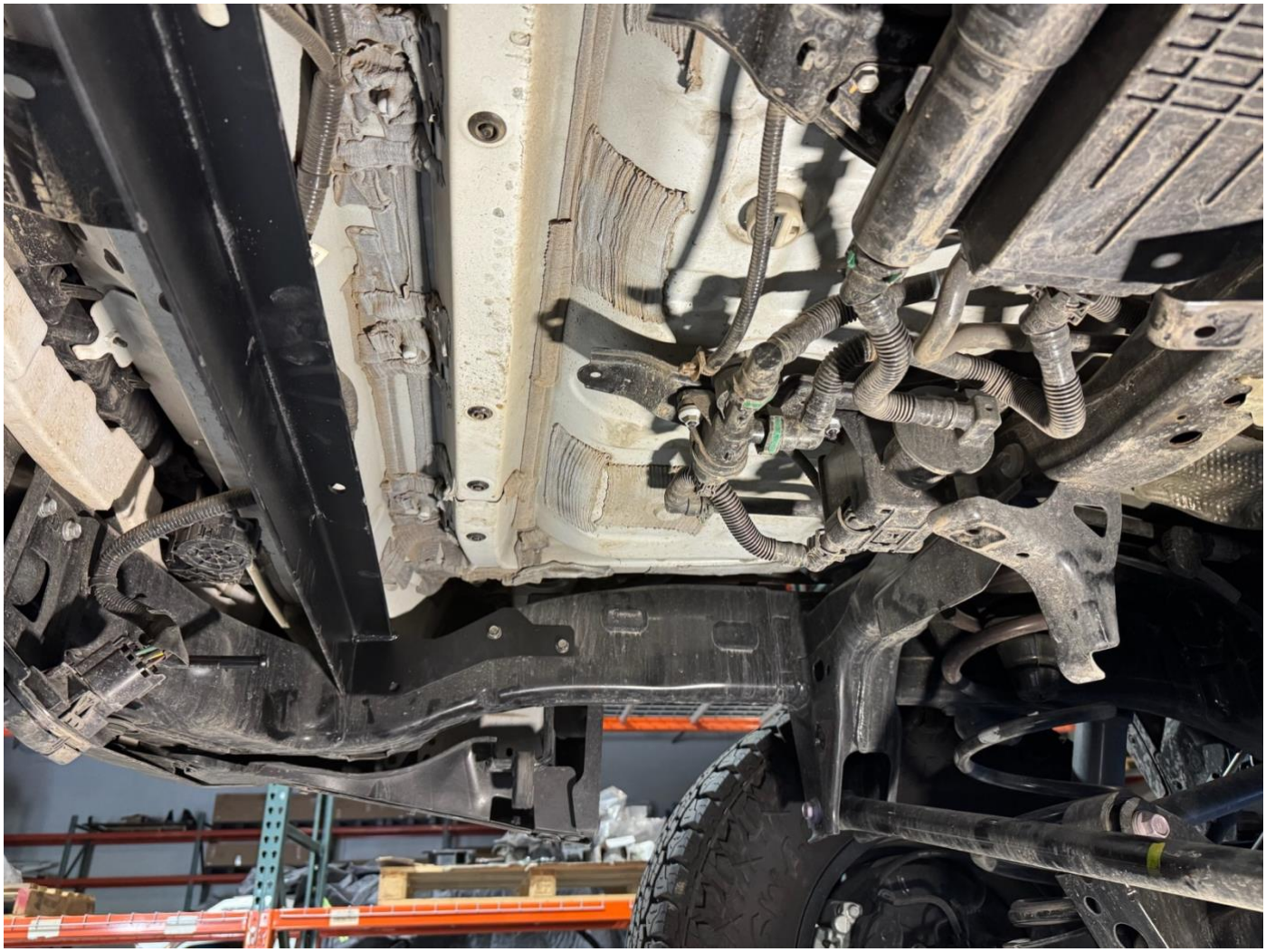
5. Unclip the wiring plug from the R/H chassis rail (Refer Pic 5)



PIC 5

6. Bolt the new rear mounting bar into position with 4 x M8 x 25mm bolts, spring, and flat washers to the factory M8 Cage nuts. Drill the two remaining holes out to 10.5mm and fix with M10 x 20mm bolts on straps with washers and Nyloc nuts. (Refer Pic 6)





Please note for GX550s an additional rib on the body will need to be cut out and removed. Please see pictured below for details. Please be sure to trim, deburr and paint after removal.



GX550 only





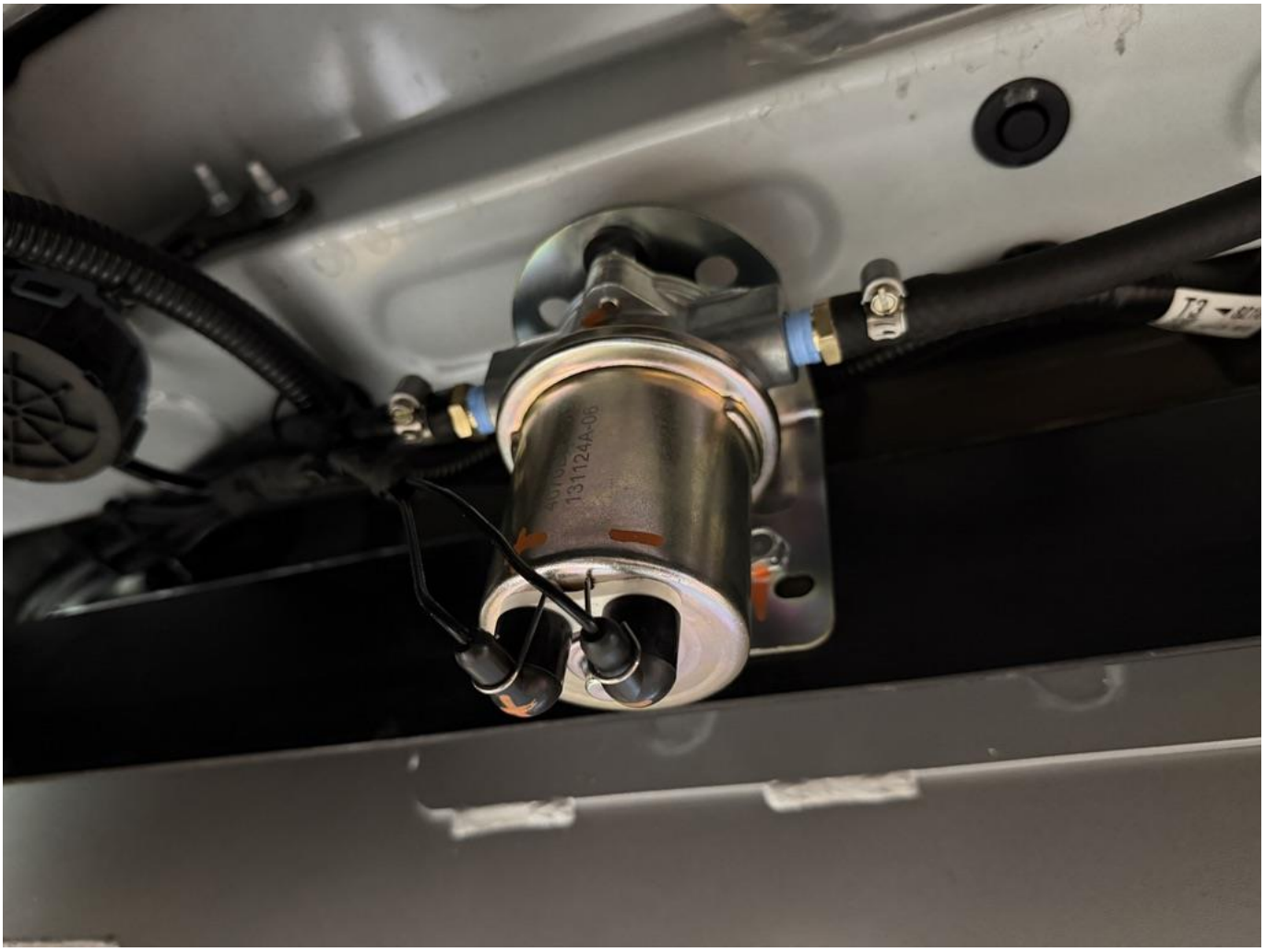





VEHICLE DYNAMICS

7. Fit the transfer pump to the rear crossmember. If using the Upgraded fuel pump be sure to note the orientation and fuel flow. See pictures below. Also note, this needs to be mounted and drilled before installing the tank.

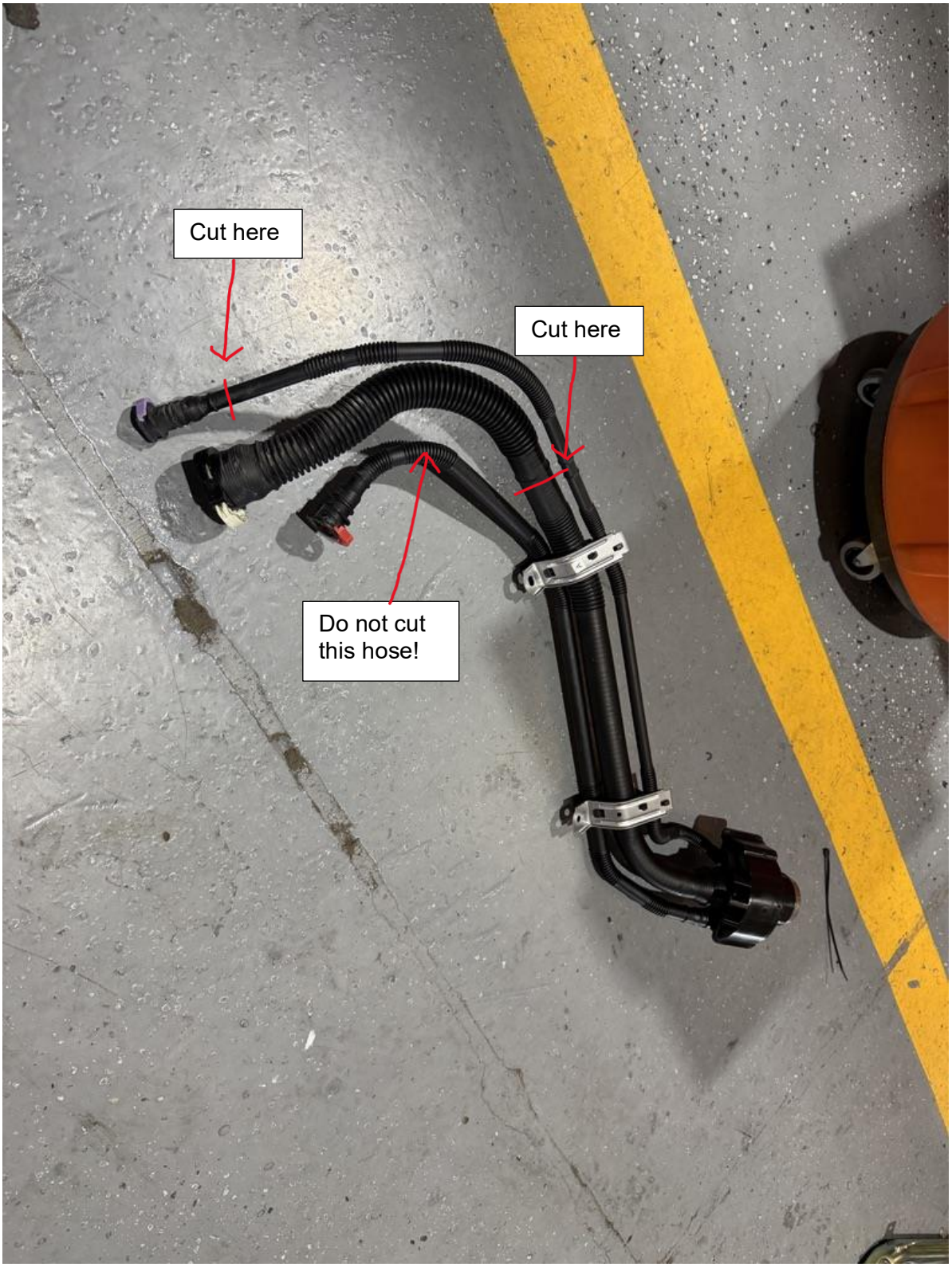




8. Remove the LHR wheel arch cover. Cut the OE Fast Fill line and remove the filler, leaving the Fast Fill vent lines and white pipe clips behind. (Refer Pic 8)






Cut here
Cut here
Do not cut this hose!


01 2725 A



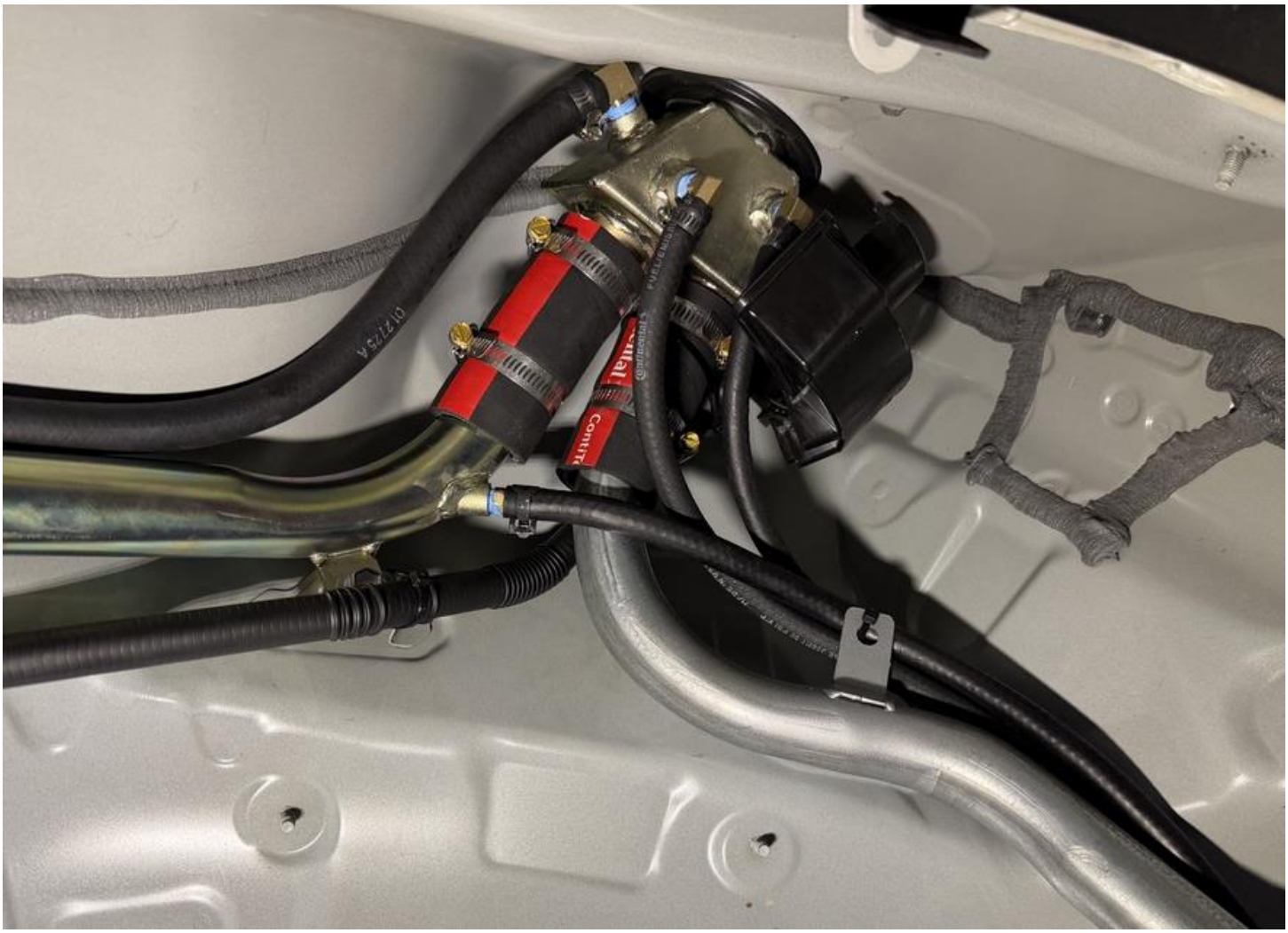

Cut Below the rib in the plastic using a pipe/PVC cutter



9. Screw the Brass fittings into the twin filler (Refer Pic below)



1. Screw the P3 5/16 x 1/8 brass fitting into the main tank fill pipe. Fit the twin filler and pipe into position. Join twin filler to main tank fill pipe with 100mm of 38mm hose. Leave clamps and bolts loose until tank is fitted, and the rear fill pipe is in position.



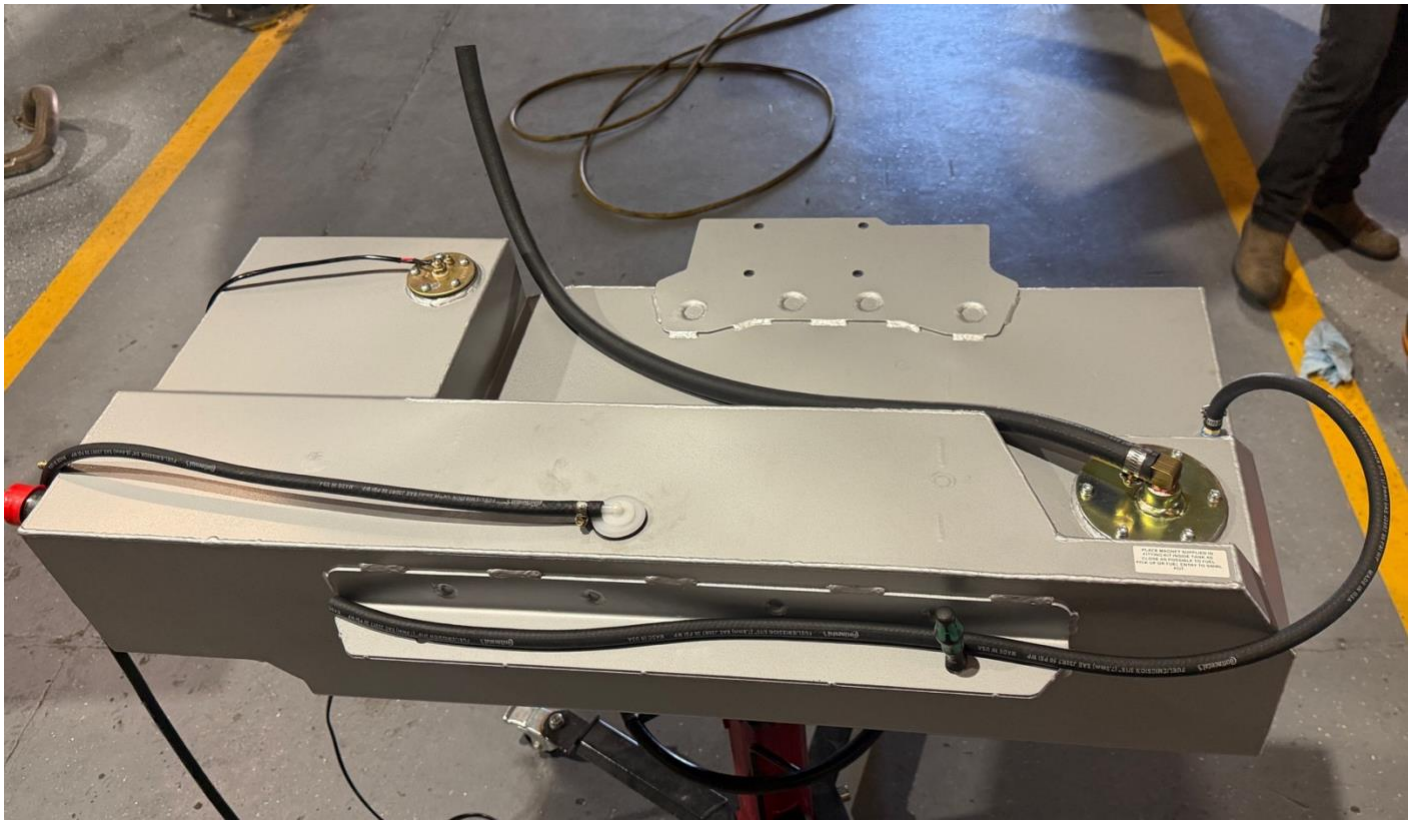


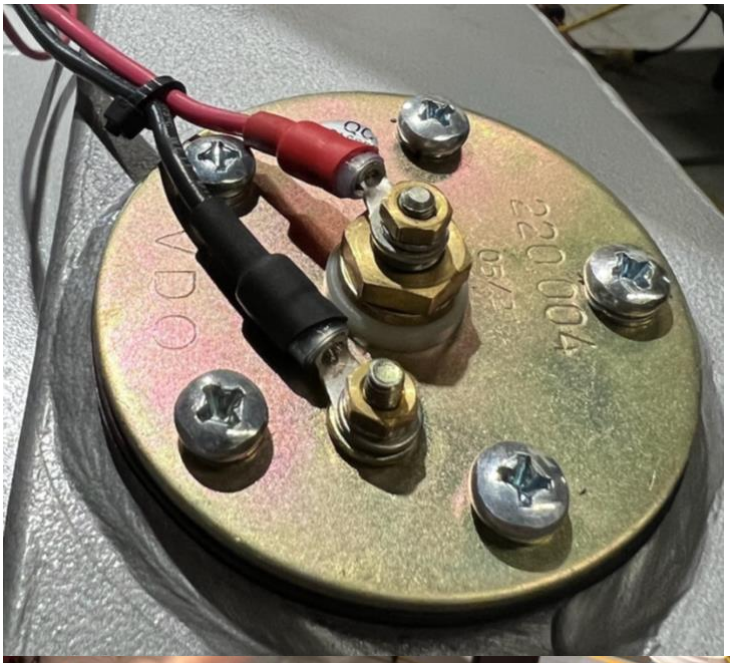

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Milwaukee

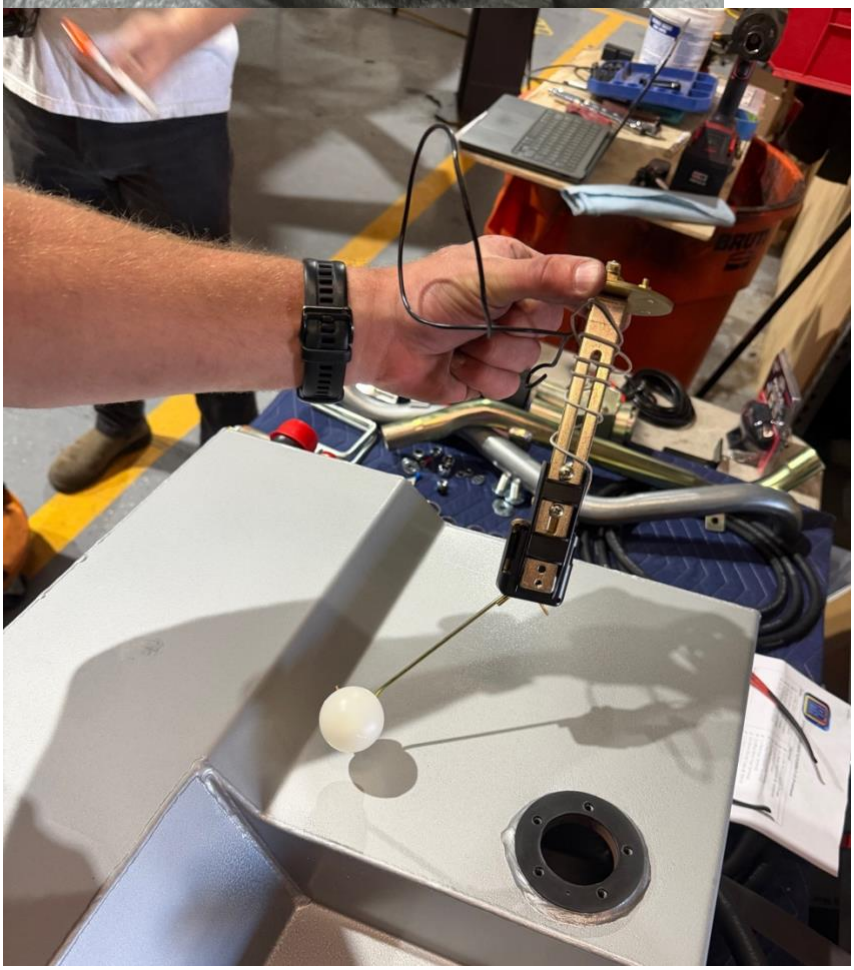
2. Assemble the fittings into the tank. P3 3/8 x 3/8 straight barb that goes on the LHS forward of the filler, Fit 1000mm length of 3/8/16mm fuel hose to this fitting. Fit the FV11 roll over valve (White Valve) and grommet to the top of the tank pointing to the LHS, Use O-ring grease to insert the rubber into the tank first followed by firmly pressing the valve in with the palm of your hand. Fit 1600 mm length of 6mm fuel hose to this valve and run it over the frame rail. Screw the P6 5/16 x 1/4 Elbow into the fuel pick up pointing forward and up on a 35 Deg angle. Fit 300mm length of 8mm fuel hose to this fitting.

3. Before proceeding, be sure to carefully remove the sending unit, place the magnet into the bottom of the tank. TEST THE SENDING UNIT RESISTANCE USING A VOLTMETER. THE SENDING UNIT IS 0-90 OHMS. O BEING EMPTY, 90 BEING FULL. BE SURE THE FLOAT CYCLES FREELY.

4. REMOVE THE BLADE CONNECTORS AND INSTALL 2X RING TERMALS WITH A 3FT LEAD OF WIRE TO MAKE ELECTRICAL EASIER AFTER INSTALLING THE TANK. SEE BELOW.

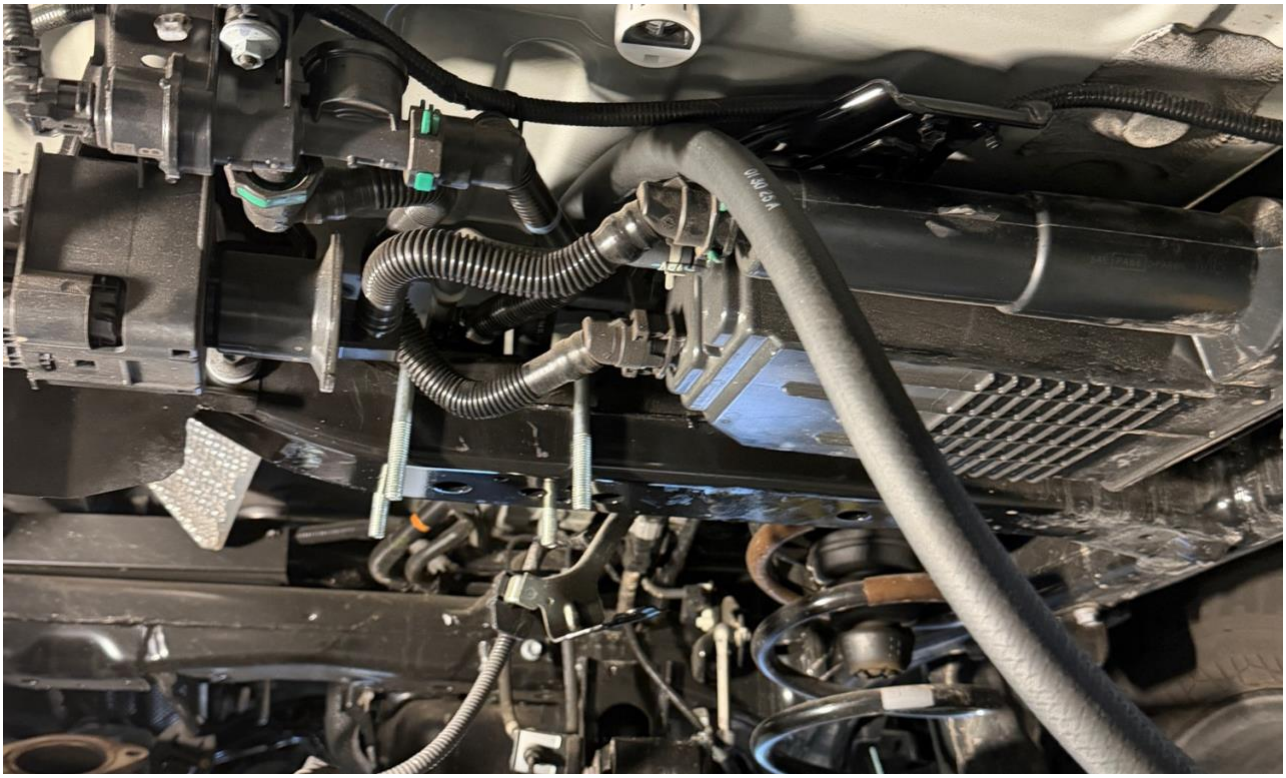


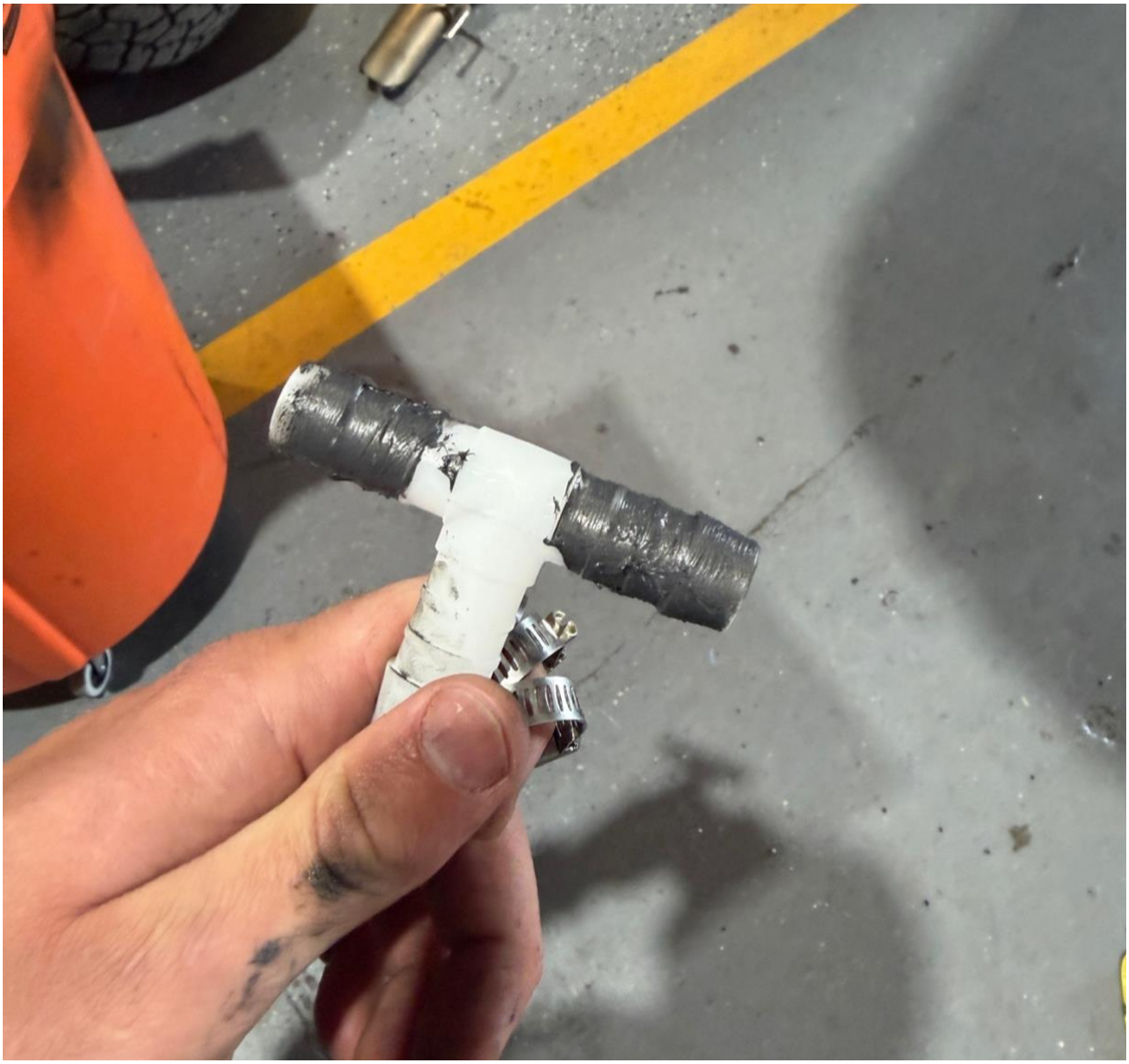

VDO




Continental
FUELEMISSION 5/16" (7.5mm) SAE J30R7 30 BAR MADE IN USA

5. Fit the 2 U Bots around the front cross member in the correct position to align with the position of the tank. Note the U-bolt may need to be opened up in the vise depending on the welds of the frame.

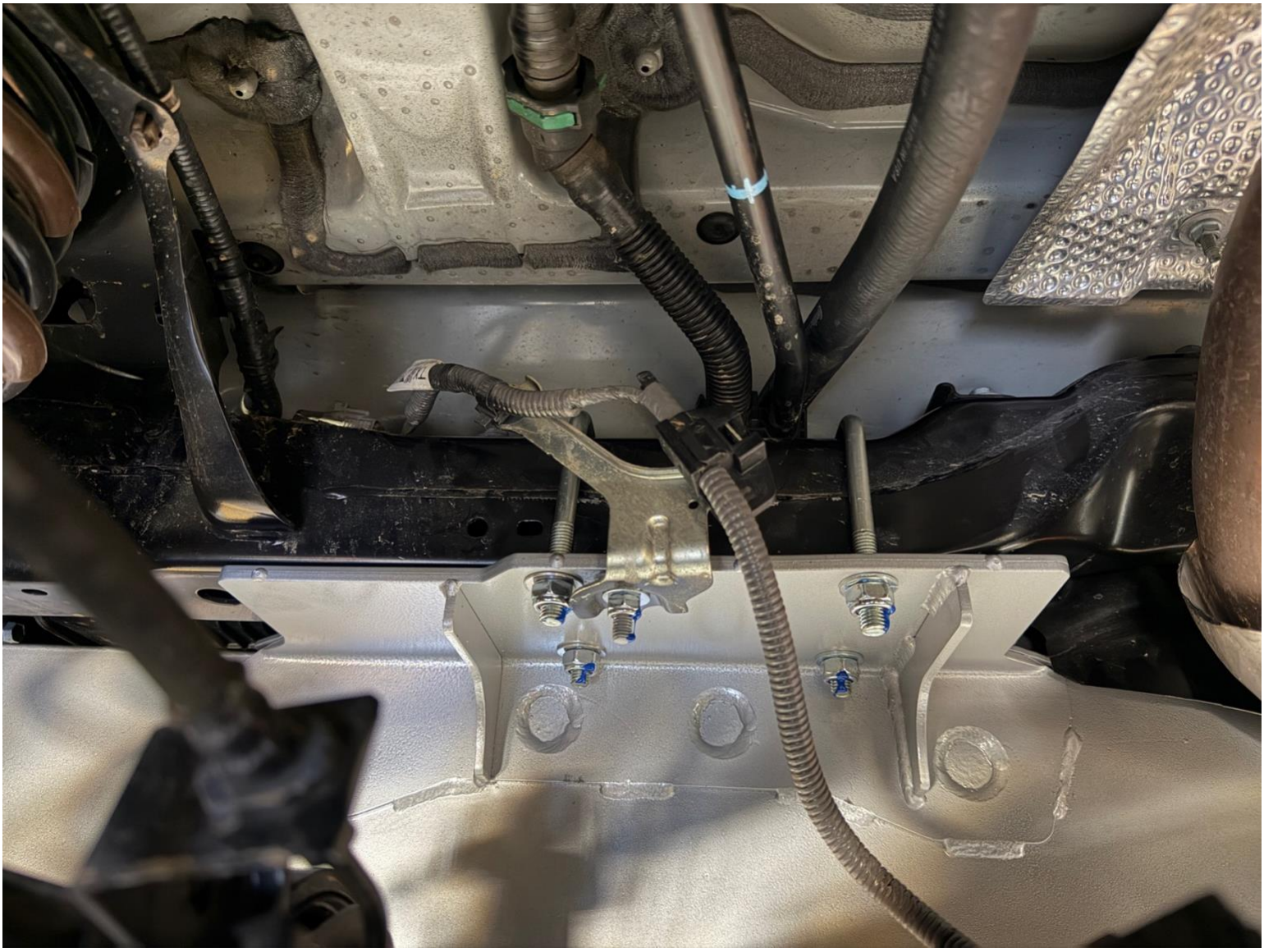




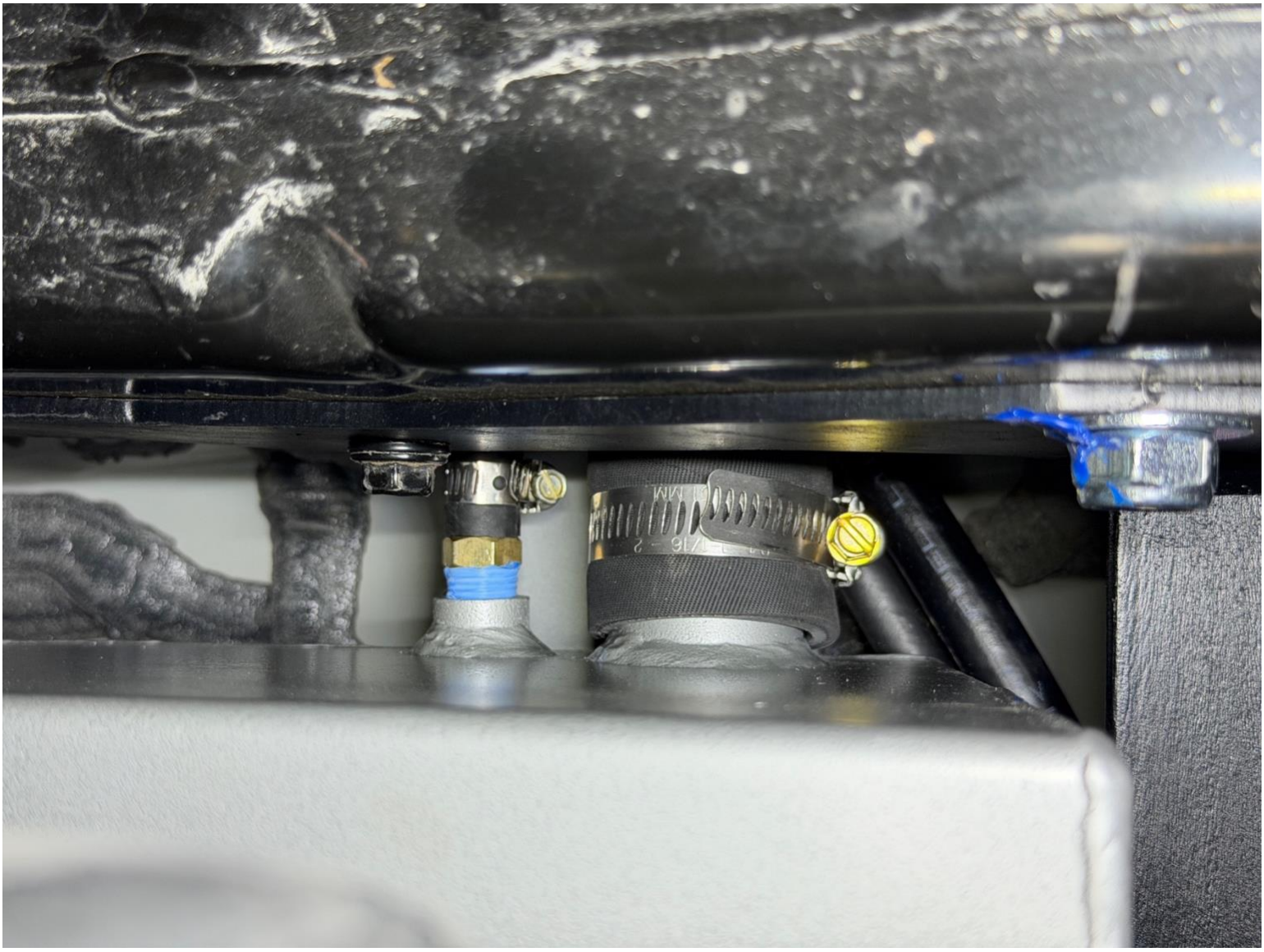





Continental







A. Are all hose clamps tight and secure?

B. Are all nuts and bolts secured?

C. Are mounting brackets and straps secure?

D. Are Fuel Gauge Sending Unit bolts secured?

E. Are all fuel lines secure with no kinks?

F. Does tank interfere with, or rub on, other vehicle components?

G. Is tank calibration accurate?

☐ Congratulations! You have completed the install!