



Installation Instructions for TLC300RA Toyota Landcruiser 300 Series 140L Auxiliary Tank

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 WILL 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 RHS of the steering column, drill a 20mm hole 110mm from the edge **(Refer Pic 1)**. 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 accelerator pedal. Use the AFN5LP fuse holder to pick up the power **(Refer Pic 2)**. Complete the wiring as per diagram and run the twin core sheathed cable under the scuff plates and drill an 8mm hole under the rear scuff plate and use the WG2 grommet to run the cable to above the chassis rail for later connection to the transfer pump and sender unit. **(Refer Pic 3)**
3. Remove the spare wheel and the OE wheel carrier.
4. Neatly trim the 2 tyre locator brackets from the cross member and paint the cut area **(Refer Pic 4)**
5. Remove the heat shield from above the resonator.

6. Unclip the wiring plug from the R/H chassis rail **(Refer Pic 5)**
7. 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 and 4 x M10 x 30mm Bolts, spring and flat washers with M10 nuts on straps. **(Refer Pic 6)**
8. Fit the transfer pump to the mounting bracket and bolt to the original front exhaust shield stud with the OE nut. Connect the pump wiring and prepare the white sender for connection. Fit 200mm of 8mm fuel hose to the inlet side of the pump.
(Refer Pic 7)
9. 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)**
10. Screw the Brass fittings into the twin filler **(Refer Pic 9)**
11. Screw the P3 5/15 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.
12. Assemble the fittings into the tank. P6 5/8 x 3/8 elbow pointing slightly forward of the filler. fit 1300mm length of 16mm fuel hose to this fitting. Fit the FV11 roll over valve and grommet to the top of the tank pointing to the LHS. Fit 1600 mm length of 6mm fuel hose to this valve. Screw the P6 5/16 x 1/4 Elbow into the fuel pick up pointing towards the LHS.
13. Fit the 2 U Bots around the front cross member in the correct position to align with the position of the tank.
14. Begin to jack the tank into position, feeding 16 and 6mm hoses over the chassis rail at the rear and connect the sender unit wire, leaving the earth accessible for connection. Secure the tank with M12 x 30mm bolts washers and Nyloc nuts for the rear and M10 U Bolts washers and Nyloc nuts for the front.
15. Connect Aux tank filler with fill pipe, 38mm Mandrel hose bend and 100mm of 38mm hose. Check filler alignment and tighten all filler hose clamps and bolts on fill pipe. Run aux tank 16mm fast fill and 6mm vent up to the twin filler neck.

16. Use P7 5/8 hose joiner and 100mm of 5/8 hose to connect the main tank fast fill to the OE plastic fast fill, slightly warm the OE plastic line to get the barb onto the plastic hose. Secure with 1/2" clamp. **(Refer Pic 10)**
17. Use the P10 + brass screen with 100mm of 6mm hose with 2 x pinch clamps to connect the OE6mm vent line, run to the top of the twin filler and cable tie with the Brass screen pointing down.
18. Use the 700mm length of 8mm fuel hose to connect the outlet of the transfer pump to the transfer port in the main tank fill pipe. Cover the transfer line and aux tank fast fill with Conduflex where they pass through between the body and the chassis. Connect the sender unit earth wire.
19. Neatly cable tie all hoses and fittings. Replace the wheel arch cover. Fill with fuel and check transfer pump operation.



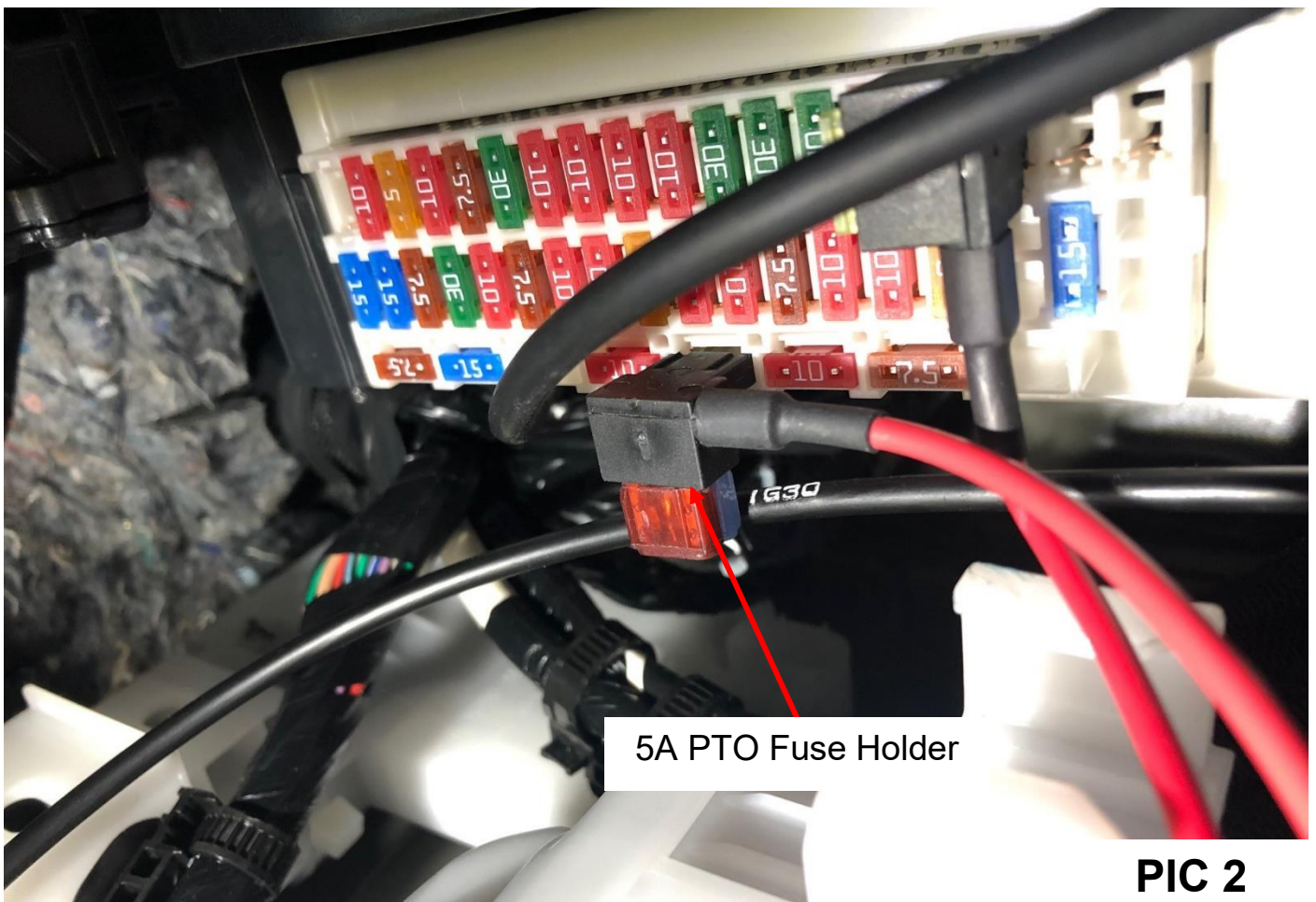
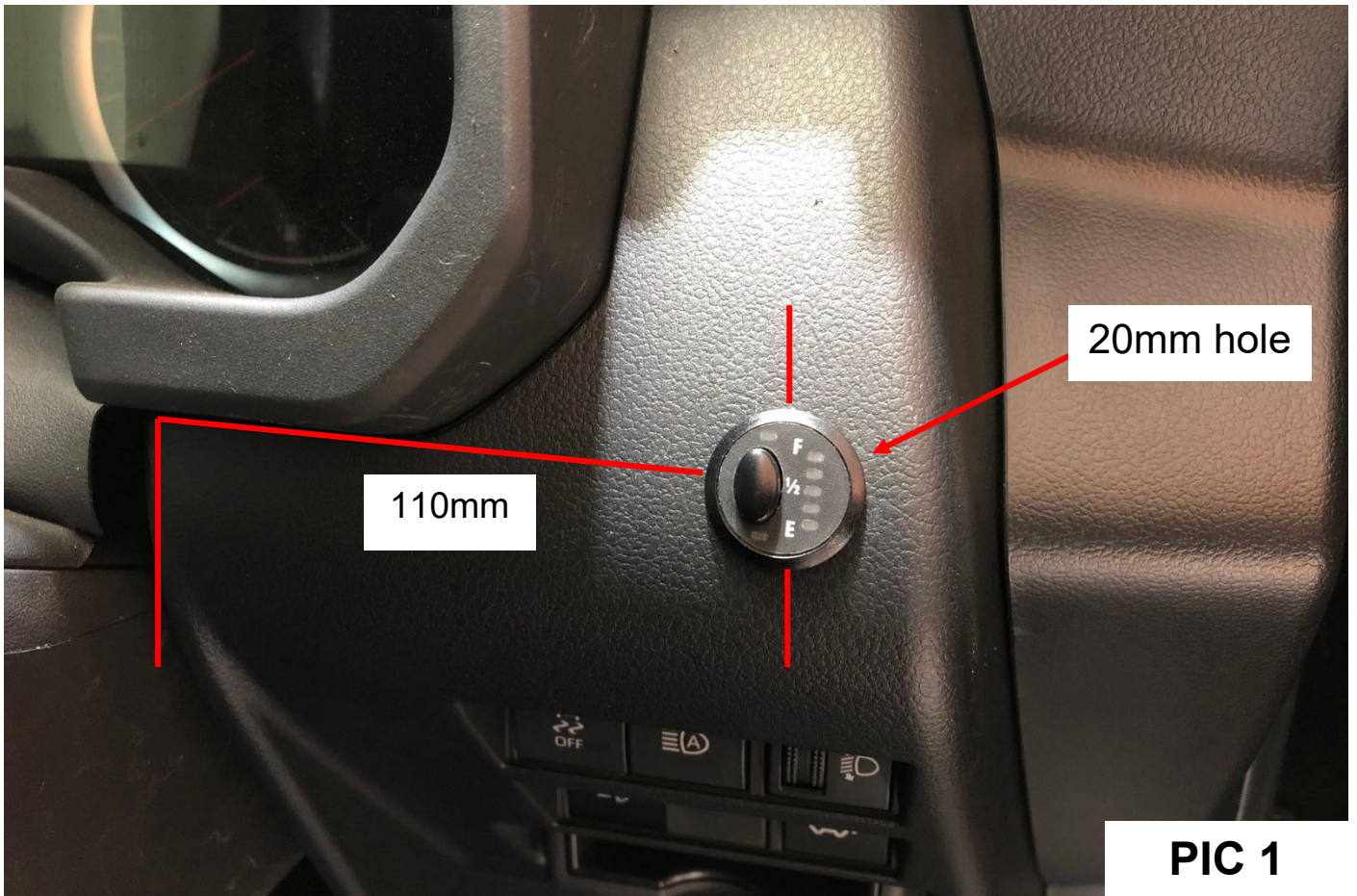
FITTING KIT CONTENTS TLC300RA

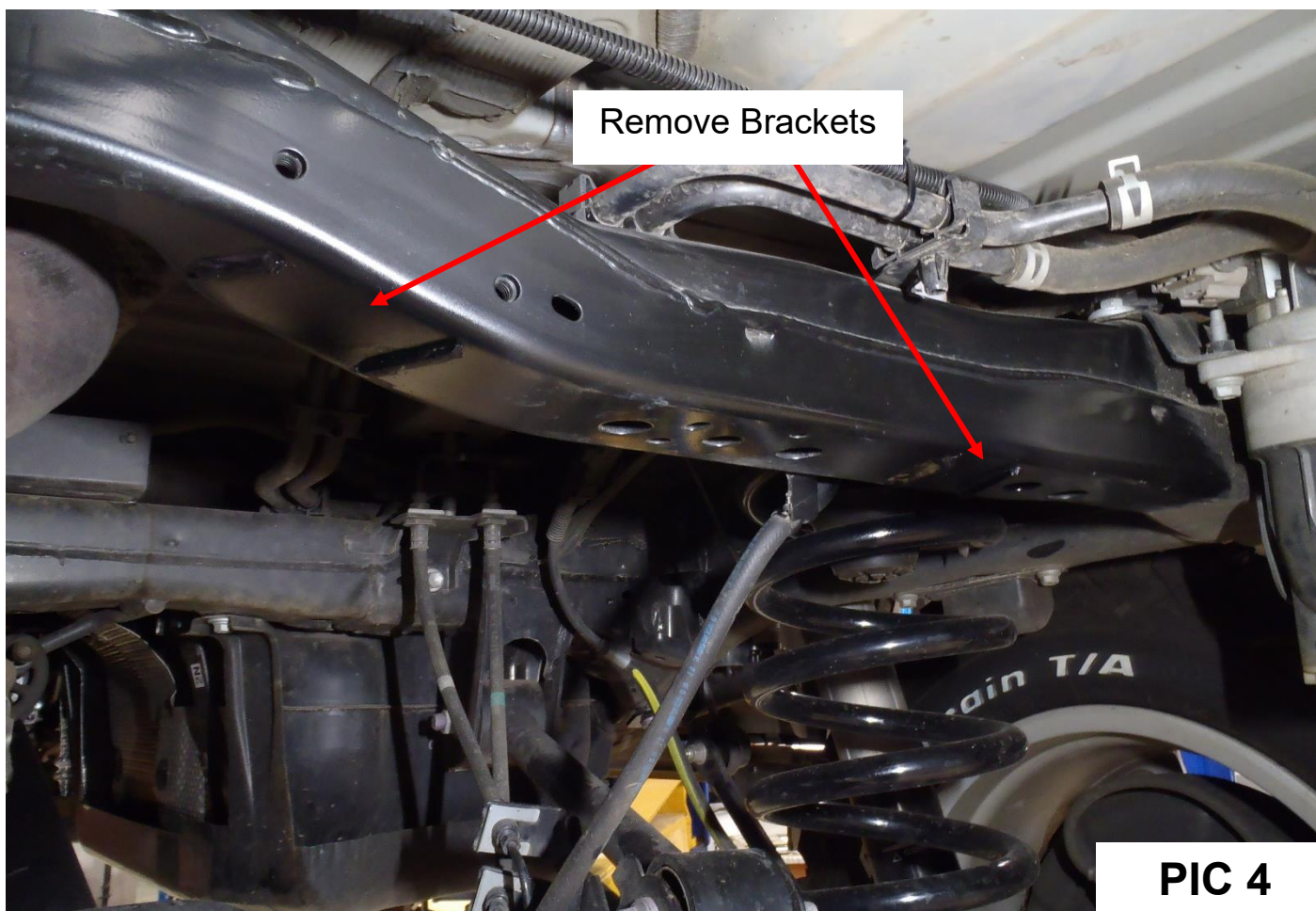
Brass: ○ 1 x P6 x 1/4 x 1/8 6mm Elbow ○ 1 x P3 5/16 x 1/8 8mm Straight ○ 1 x P6 5/16 x 1/4 8mm Elbow ○ 3 x P6 5/8 x 3/8 16mm Elbows ○ 1 x P7 5/8 Hose Joiner ○ 1 x P10 0404 1/4 Female ○ 1 x 2921-04 Brass Screen	Electrical: ○ 1 x LRA-PG210 Switch Gauge ○ 1 x 3mm Two Core @ 4000mm ○ 1 x AFN5LP Fuse ○ 1 x AFNLPPTO Fuse Holder ○ 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: ○ 4 x M8 x 25mm Bolts ○ 4 x M8 Spring Washers ○ 4 x M8 x 20mm Washers ○ 4 x M10 x 30mm Bolts ○ 4 x M10 Spring Washers ○ 4 x M10 x 25mm Washers ○ 4 x M10 x 20mm H/D Washers ○ 4 x M10 Nyloc Nuts ○ 2 x M12 x 30mm Bolts ○ 4 x M12 Washers ○ 2 x M12 Nyloc Nuts ○ 3 x 25mm TEK Screws ○ 2 x M5 x 16mm Washers ○ 1 x M6 x 19mm Washer	Misc Parts: ○ 1 x Twin Filler #TF300RA Diesel ○ 1 x TLC300RA Rear Mounting Bar ○ 2 x M10 x 85mm Center U Bolts ○ 4 x M10 Nuts with 200mm Strap ○ 1 x FPTLC300-1 Main Fill Pipe ○ 1 x FPTLC300-2 Aux Fill Pipe ○ 1 x FV11 Roll Over Valve ○ 1 x LRA-FTG2 Grommet ○ 1 x Adhesive Cable Tie Mount ○ 1 x CF16 Conduflex @ 500mm ○ 1 x CF20 Conduflex @ 300mm
Hose Clamps: ○ 5 x 1/4 Hose Clamps ○ 2 x 1/4 Pinch Clamps ○ 1 x 1/2 Hose Clamp ○ 4 x 5/8 Hose Clamps ○ 6 x 1 1/4 Hose Clamps	Hose: ○ 1 x 6mm Fuel Hose @ 100mm ○ 1 x 6mm Fuel Hose @ 1600mm ○ 1 x 8mm Fuel Hose @ 200mm ○ 1 x 8mm Fuel Hose @ 700mm ○ 1 x 16mm Fuel Hose @ 160mm ○ 1 x 16mm Fuel Hose @ 1300mm ○ 2 x 38mm Fuel Hose @ 100mm ○ 1 x UHB38N Mandrel Hose Bend

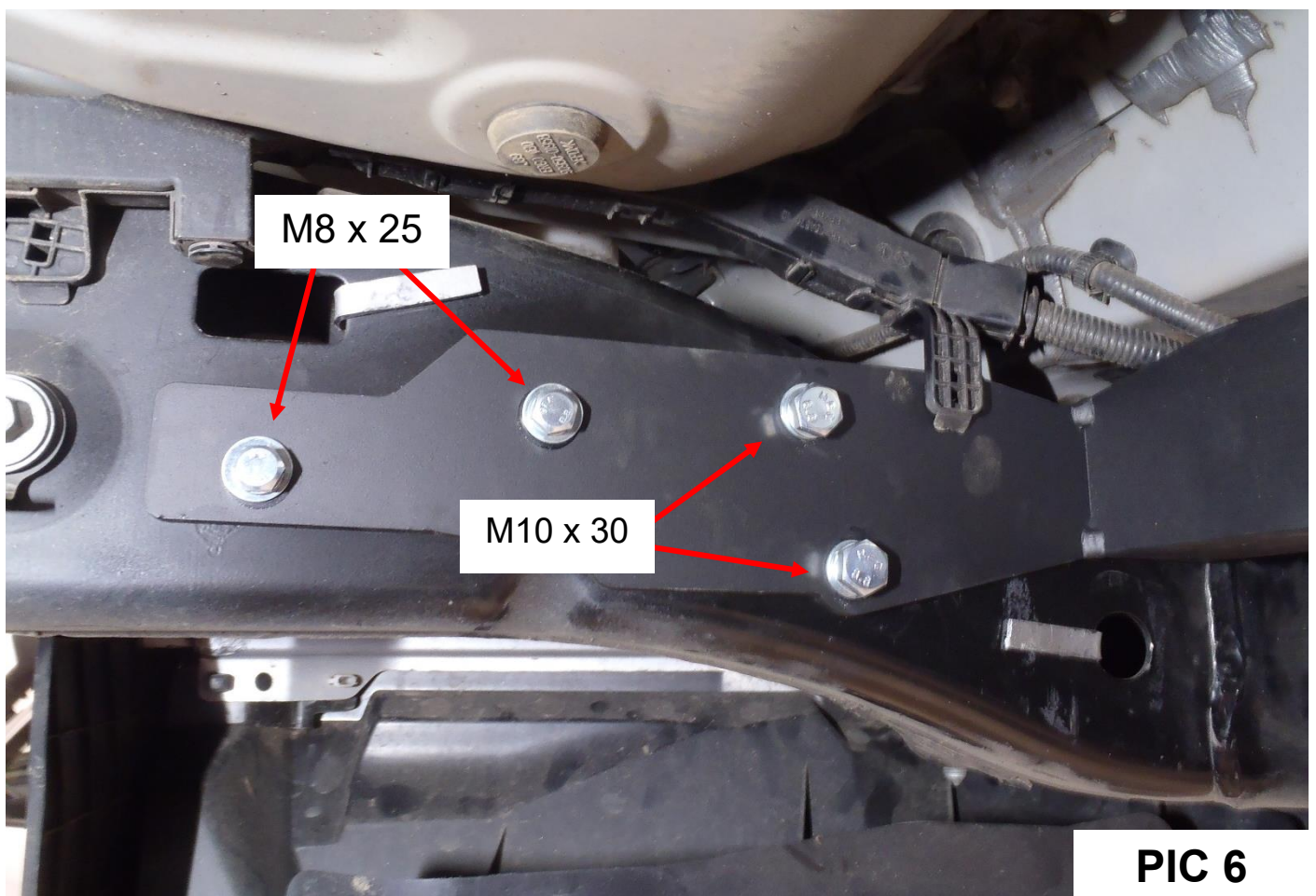
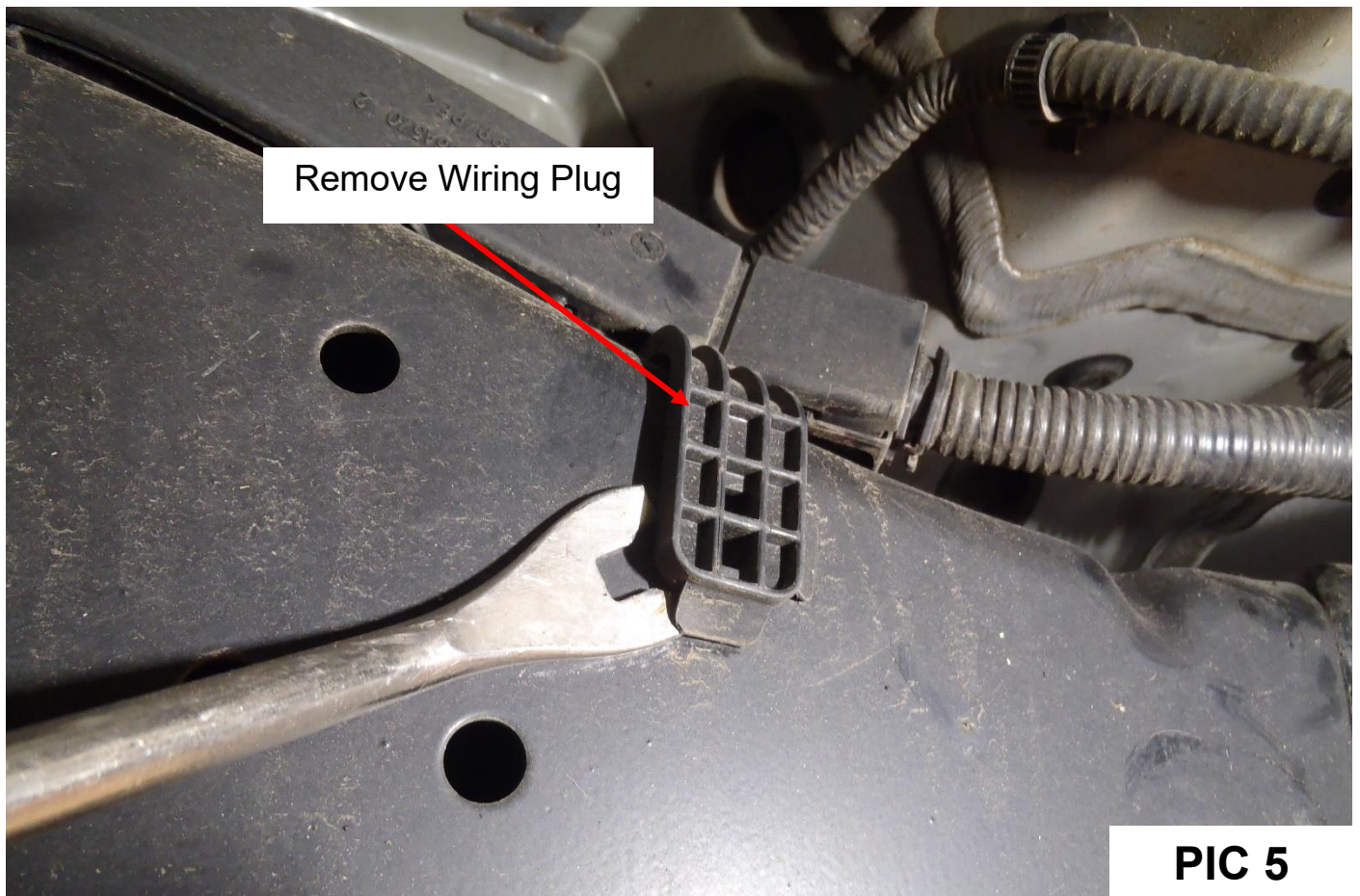
Pumps & Filters:	Cable Ties:
○ 1 x Fuel Pump & Filter ○ 1 x Fuel Pump Mounting Plate	○ 10 x 7" Cable Ties ○ 10 x 11" Cable Ties
Sender:	11 Pages of Fitting Instructions Consisting of:
○ 1 x 0-90 OHM Sender Unit with 600mm Earth Attached	○ 3 x Pages Fitting Instructions ○ 2 x Pages Fitting Kit Contents ○ 5 x Pages Reference Pictures ○ 1 x Page WDSGPG210

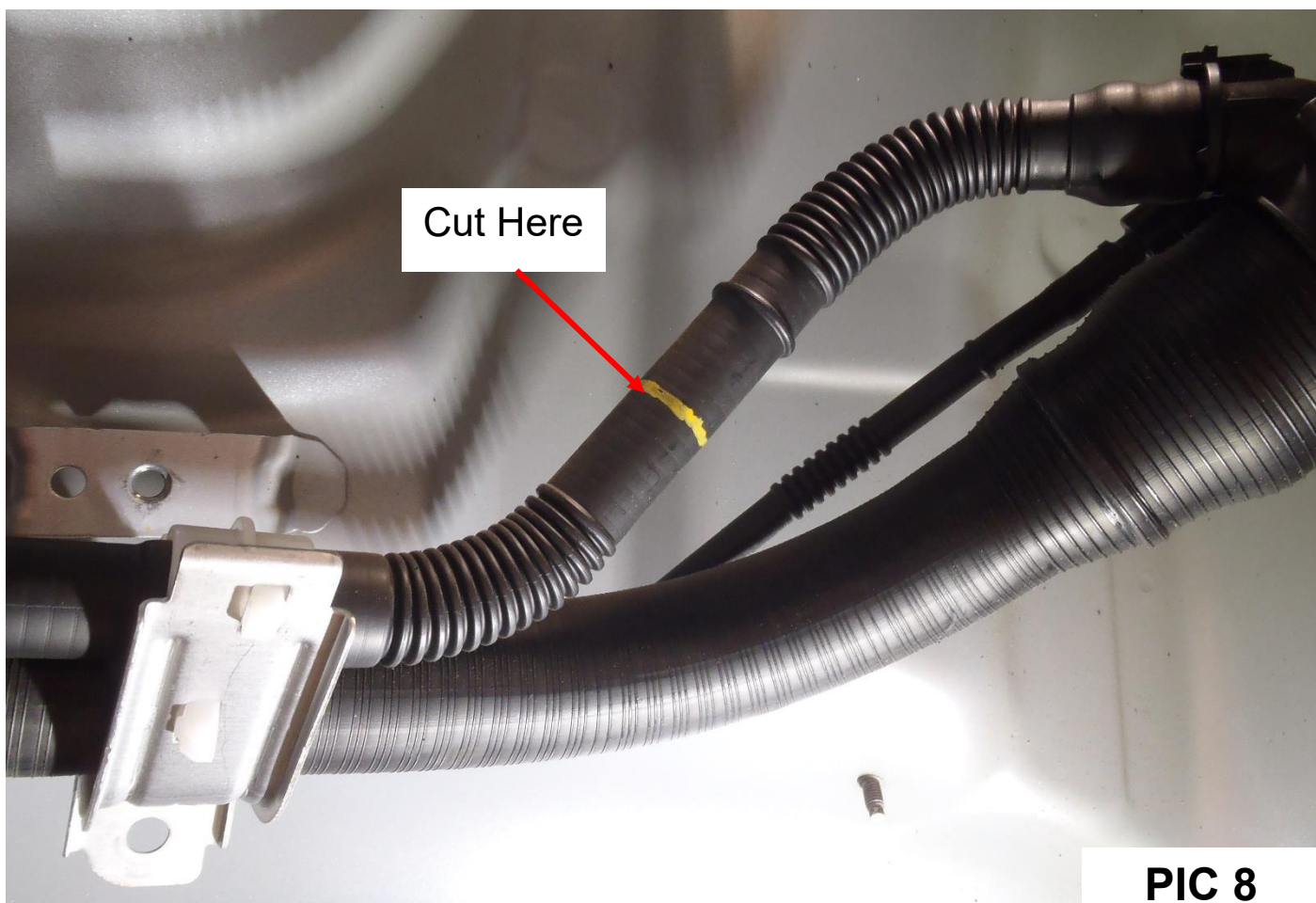
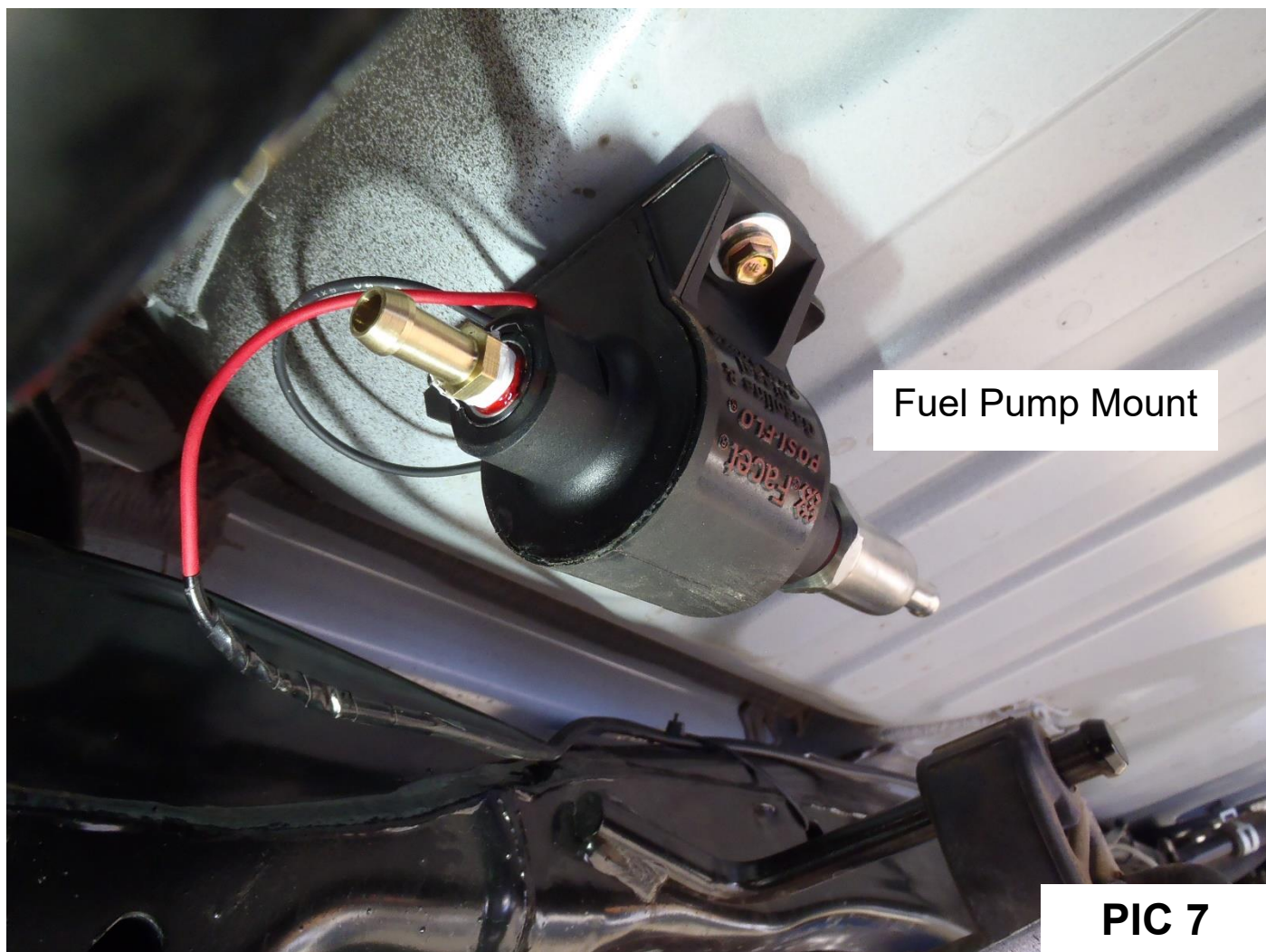
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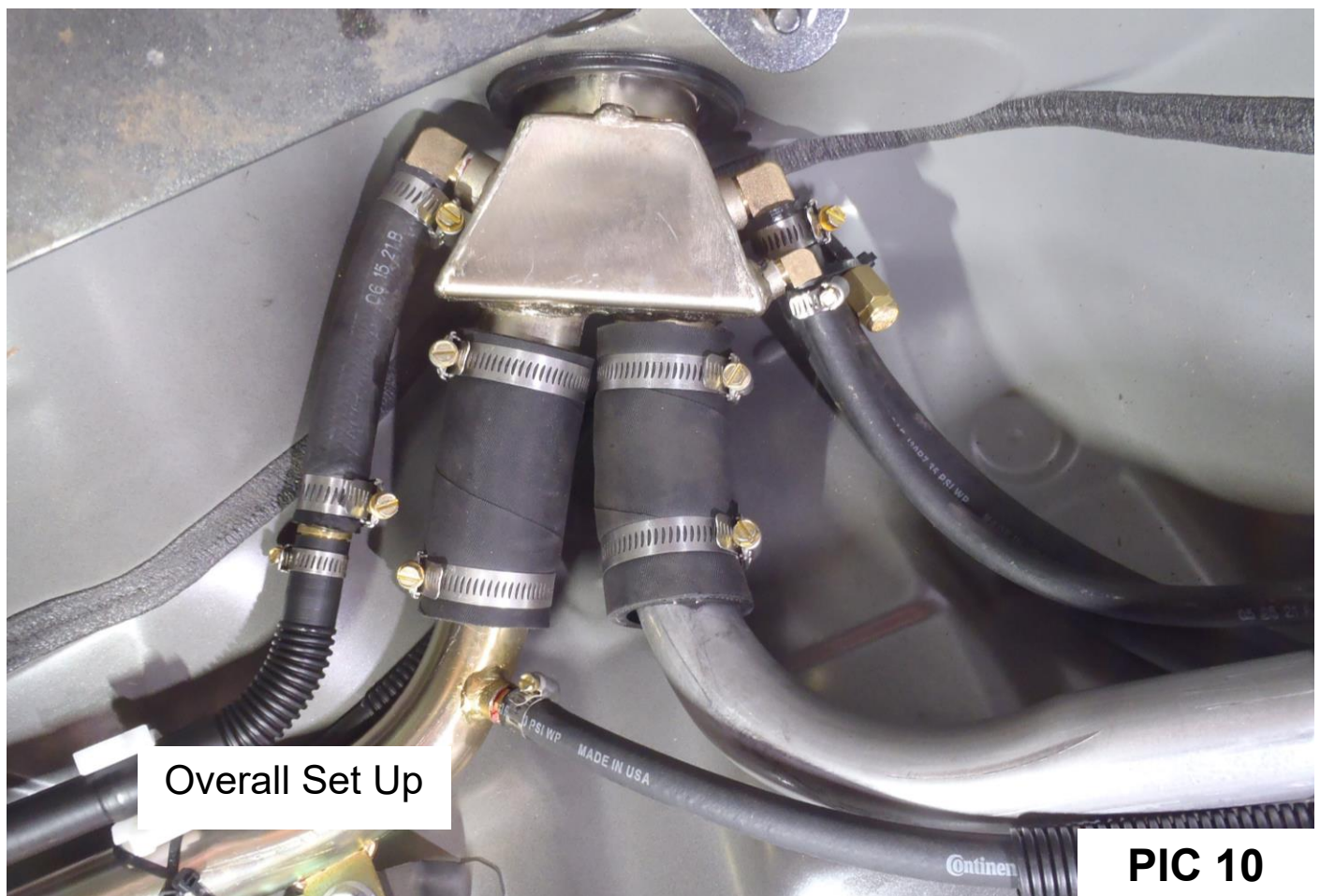
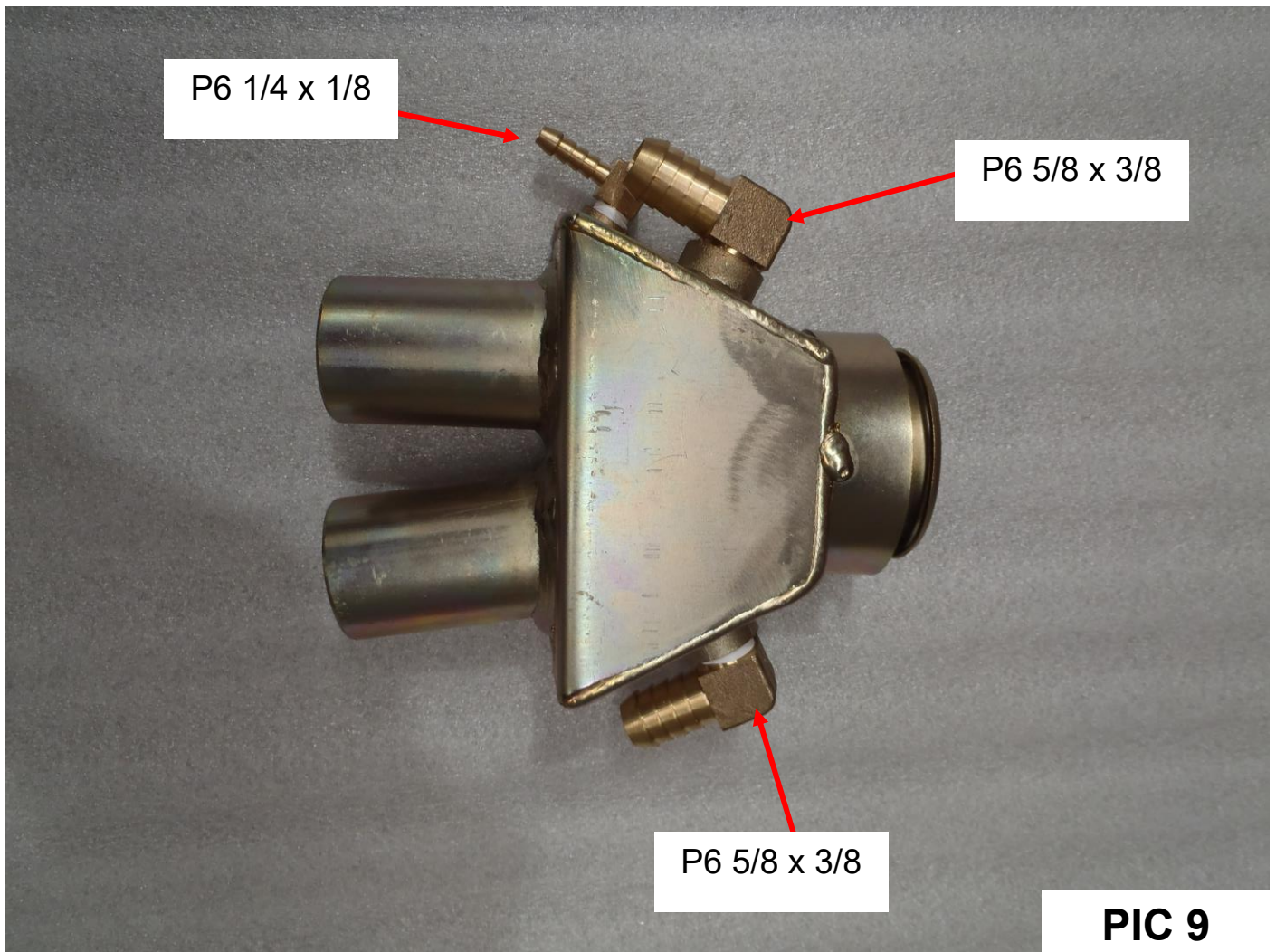
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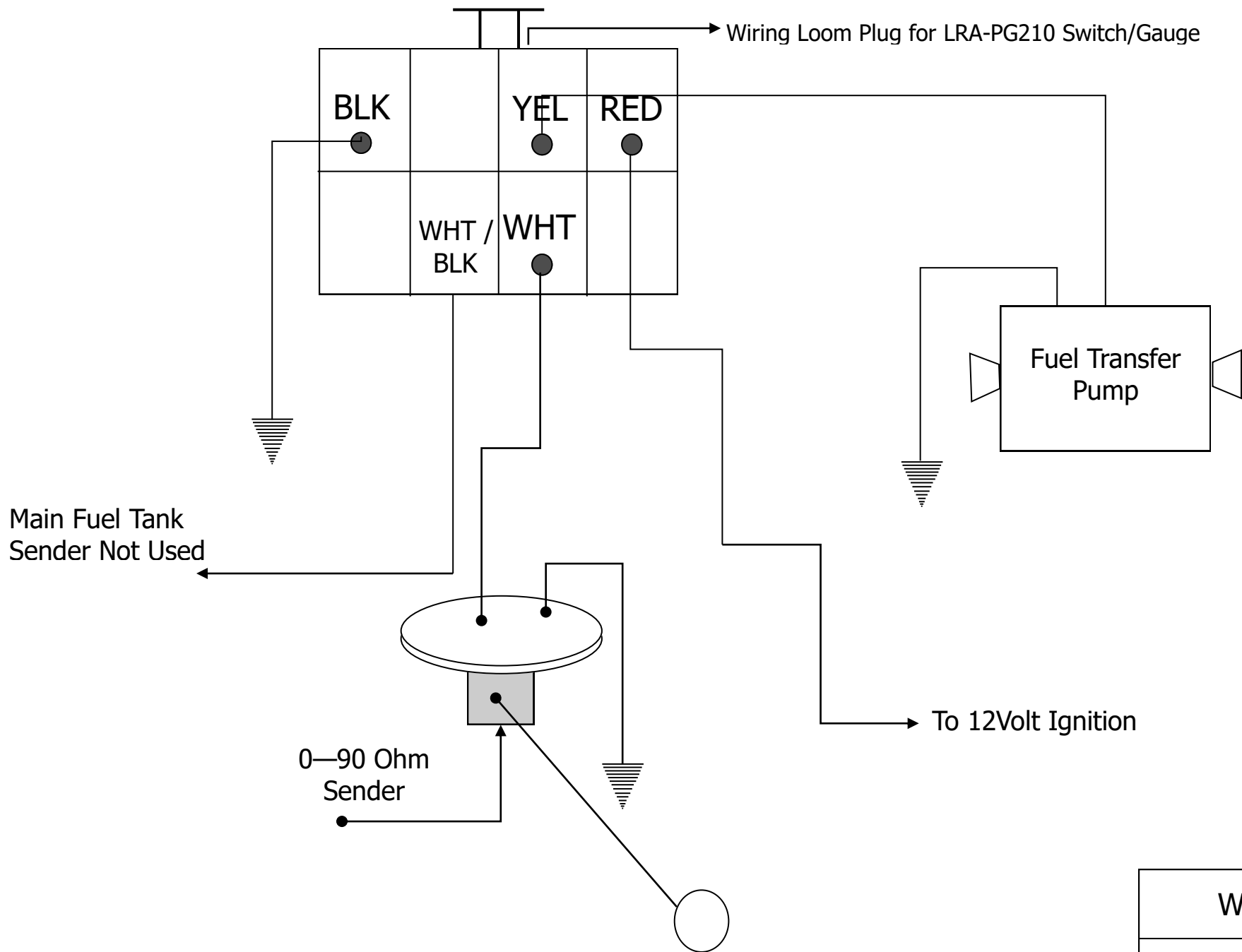












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