



## Installation Instructions for DR1500DTCCR Dodge Ram DT 1500 Crew Cab 190L Replacement Tank

New Oct 2021

1. Remove L/H/R plastic inner wheel arch trim. Disconnect the filler, canister vent and small recirculation line, also unplug wiring. Unplug the sender unit (The Red release clip on the sender plug slides to the LHS) and disconnect the fuel pick up line. Also disconnect the canister purge line on L/H chassis rail. Unplug canister wiring. Loosen straps and remove the tank.
2. Using the drilling jigs, drill a 6mm pilot hole through the cross member 22mm to the RHS from the Centre of the strap mounting studs. Then cut both inboard strap mounting studs from the chassis cross members, grind flush and then drill out the pilot hole to 13mm  $\varnothing$  hole. Paint the area. **(Refer Pic 1A & 1B)**.
3. Unclip the fuel and brake lines from the chassis rail just behind the transfer case. There are two clips. **(Refer Pic 2)** Fit the new front secondary bracket under neath these lines. Use the large hole on the underside of the chassis rail for location. Bolt in place. Using the bracket as a guide drill two 12.5mm holes in the rail and secure with M12 Bolts with strap attached, washers and Nyloc Nuts. **(Refer Pic 2A)** Once the bracket is in place re clip the fuel and brake line into position and fit support bracket.
4. Fit the new secondary strap plates with short strap rubbers. The shorter of the two is the front one. (You may need to widen the front slot by 1mm). **(Refer Pic 3 & 3A)** Before fitting the front strap plate remove 100mm from the fuel line cover at the rear.
5. Remove pump assembly from the tank, unclip the float arm remove the float and replace it with the new arm from the kit. Bend the end of the arm to keep the float in place. **(Pic 4)** Fit the magnet to the tank near the entry to the swirl pot and fit the pump assembly to the tank using M5 x 8 cap screws with hold down ring and new BS357 O-ring. Blank off the original FLVV vent and recirculation fittings using the 8mm and 16mm EFI Blanking Caps. **(Refer Pic 5)**

6. Remove charcoal canister from the OE tank. Trim plastic section near the rear canister mounting bolt. Drill out the hole near the rear mount to 12mm. Also drill through lower section. Drill 8.5mm hole at front of canister. Fit canister to the tank securing with the M8 Nyloc with washers and M8 x 25mm Bolt spring and flat washers (**Refer Pic 6A, 6B & 6C**).
7. Fit the grommet and roll over valve to the tank. Valve points forward but towards drive shaft. Fit the FLVV to the tank using M5 x 10 cap screws with washers and BS337 O-ring. Point 5/8 fitting on the FLVV towards the filler neck. Connect 910mm of 5/8 hose to FLVV, fit 90° quick connect fitting from inside of the original tank to the other end, cover with Conduflex. Fit 250mm of 6mm hose to the Roll Over valve and connect the other end to the 6mm fitting on the FLVV. Fit the 8mm elbow with bundy tube attached to 1/4 socket near the FLVV. Point towards FLVV, fit 500mm of 8mm hose to the fitting. ***Refer to supplementary instructions for vehicles with 16mm valve on FLV line***
8. Remove fittings from canister purge line and fit to 750mm of 1/2 rubber hose. Connect male end back to the fitting on L/H chassis rail. Place over cross member and cover with Conduflex for later connection to charcoal canister. Cover front part of hose with 375mm of Conduflex and remove rear retaining clip.
9. Fit inboard strap reinforcing plates on top of cross members. Jack tank into position. Feed FLVV hose over crossmember and 8mm hose over L/H chassis rail. Fit rear strap using M12 x 110mm bolt and Nyloc and M12 x 30mm bolt and Nyloc and washers and reinforcing plate. Secure front of the tank to new secondary bracket using M12 x 30mm bolts, nuts and washers. Remove jack and fit front strap and secure with M12 x 85mm bolt and M12 x 30 bolts, nuts, washers and reinforcing plate.
10. Connect FLVV line to the canister and purge line to remaining fitting. Reconnect wiring to rear of canister. Cover all lines with Conduflex. Plug in pump assembly and connect pick-up line. Remove 70mm from tank end of fill hose and refit. Connect 8mm hose to recirculation valve near fill hose and reconnect canister vent lines. Refit wheel arch cover, Refit transfer case bash shield, fill with fuel and check all hoses and fittings for leaks.



## FITTING KIT CONTENTS DR1500DTCCR

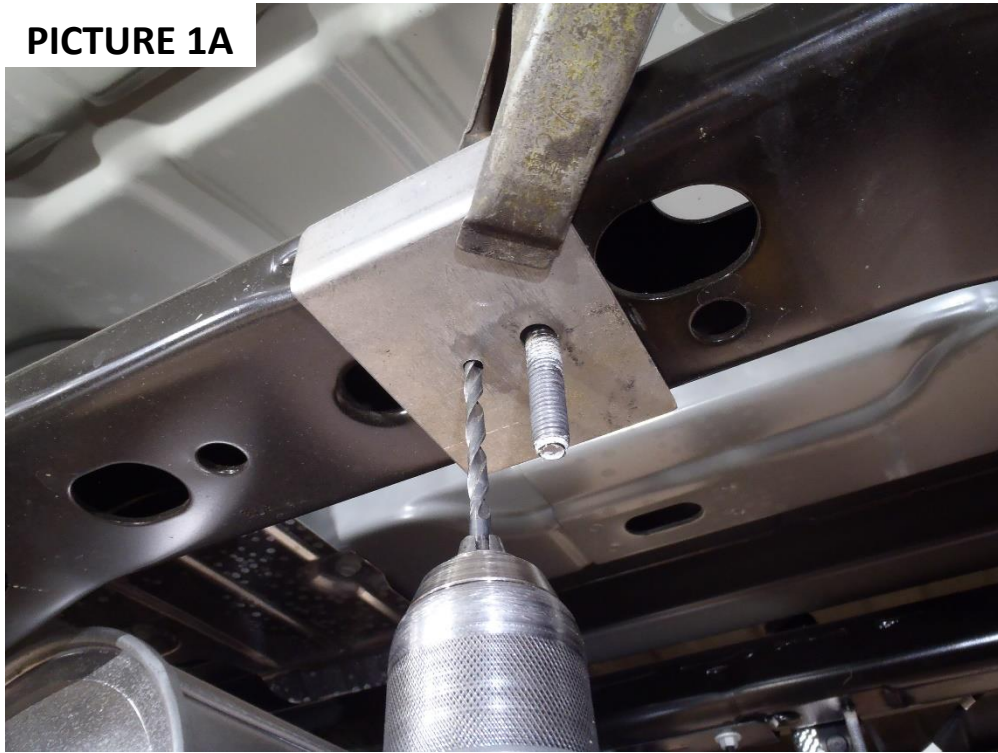
Updated 9/23 - TL	
<b>Brass:</b> <ul style="list-style-type: none"> <li>○ 1 x P6 5/16 x 1/4 Elbow with 140mm Bundy including thread</li> <li>○ 1 x P6 5/8 x 3/8 Elbow with 1/4 barb taped in end (For FLVV)</li> </ul>	<b>Electrical:</b>
<b>Bolts / Nuts:</b> <ul style="list-style-type: none"> <li>○ 1 x M8 x 25 Bolt</li> <li>○ 1 x M8 Spring Washer</li> <li>○ 1 x M10 x 25 Bolts</li> <li>○ 1 x M12 x 85 Bolt</li> <li>○ 1 x M12 x 100 Bolt</li> <li>○ 3 x M12 x 30 Bolts</li> <li>○ 2 x M8 x 20 Washers</li> <li>○ 1 x M8 x 25 Washer</li> <li>○ 2 x M10 x 20 Washer</li> <li>○ 1 x M8 Nyloc Nuts</li> <li>○ 1 x M10 Nyloc Nuts</li> <li>○ 9 x M12 Nyloc Nuts</li> <li>○ 6 x M5 x 8 Cap Screws</li> <li>○ 6 x M5 x 10 Cap Screws</li> <li>○ 1 x TEK Screw</li> <li>○ 12 x M5 Spring Washers</li> <li>○ 14 x M12 Heavy Duty Washers</li> <li>○ 1 x 8mm EFI Blanking Cap</li> <li>○ 1 x 16mm EFI Blanking Cap</li> <li>○ 3 x M12 x 30mm Bolt 300 Wire</li> </ul>	<b>Misc Parts:</b> <ul style="list-style-type: none"> <li>○ 1 x Roll Over Valve CPC (No Screw)</li> <li>○ 1 x LRA-FTG2 Grommet</li> <li>○ 1 x Front Bracket (2 Pieces)</li> <li>○ 2 x Outer Strap Mounts (1 Short with M12 x 30mm Bolt welded 1 Long)</li> <li>○ 2 x Inner Strap Folded Reinforcing Plates</li> <li>○ 1 x O-Ring BS357</li> <li>○ 1 x O-Ring BS337</li> <li>○ 1 x 50mm Rubber Strap @ 50mm</li> <li>○ 1 x 50mm Rubber Strap @ 110mm</li> <li>○ 1 x 50mm Rubber Strap @ 700mm</li> <li>○ 1 x 50mm Rubber Strap @ 790mm</li> <li>○ 1 x Long Tank Strap (Rear)</li> <li>○ 1 x Short Tank Strap (Front)</li> <li>○ 1 x Pump Hold Down Ring</li> <li>○ 1 x 3mm rubber 120mm x 430mm Glued to tank</li> <li>○ 1 x 3mm rubber 120mm x 330mm Glued to tank</li> <li>○ 2 x Drilling Jigs</li> <li>○ 1 x FLV 137-16-06 Valve</li> </ul>

<b>Hose Clamps:</b>	<b>Cable Ties:</b>
<ul style="list-style-type: none"> <li>○ 2 x 1/4" Hose Clamps</li> <li>○ 2 x 1/2" Hose Clamps</li> <li>○ 2 x 5/8 Hose Clamps</li> <li>○ 2 x EFI Hose Clamps</li> </ul>	<ul style="list-style-type: none"> <li>○ 3 x 7" Cable Ties</li> <li>○ 1 x 11" Cable Ties</li> </ul>
<b>Sender:</b>	<b>Pumps &amp; Filters:</b>
<ul style="list-style-type: none"> <li>○ 1 x DR1500DTCCR Float Arm</li> </ul>	
<b>Hose:</b>	<b>12 Pages of Fitting Instructions Consisting of:</b>
<ul style="list-style-type: none"> <li>○ 1 x 6mm Hose @ 250mm</li> <li>○ 1 x 8mm Hose @ 500mm</li> <li>○ 1 x 12mm Hose @ 750mm</li> <li>○ 1 x 16mm Hose @ 910mm</li> <li>○ 1 x Conduflex CF13 @375mm</li> <li>○ 1 x Conduflex CF20 @ 750mm</li> <li>○ 1 x Conduflex CF23 @ 800mm</li> </ul>	<ul style="list-style-type: none"> <li>○ 2 x Pages Fitting Instructions</li> <li>○ 2 x Pages Fitting Kit Contents</li> <li>○ 6 x Pages Reference Pictures 1A-6C</li> <li>○ 2 x Pages 16MM Valve Reference Pictures</li> </ul>

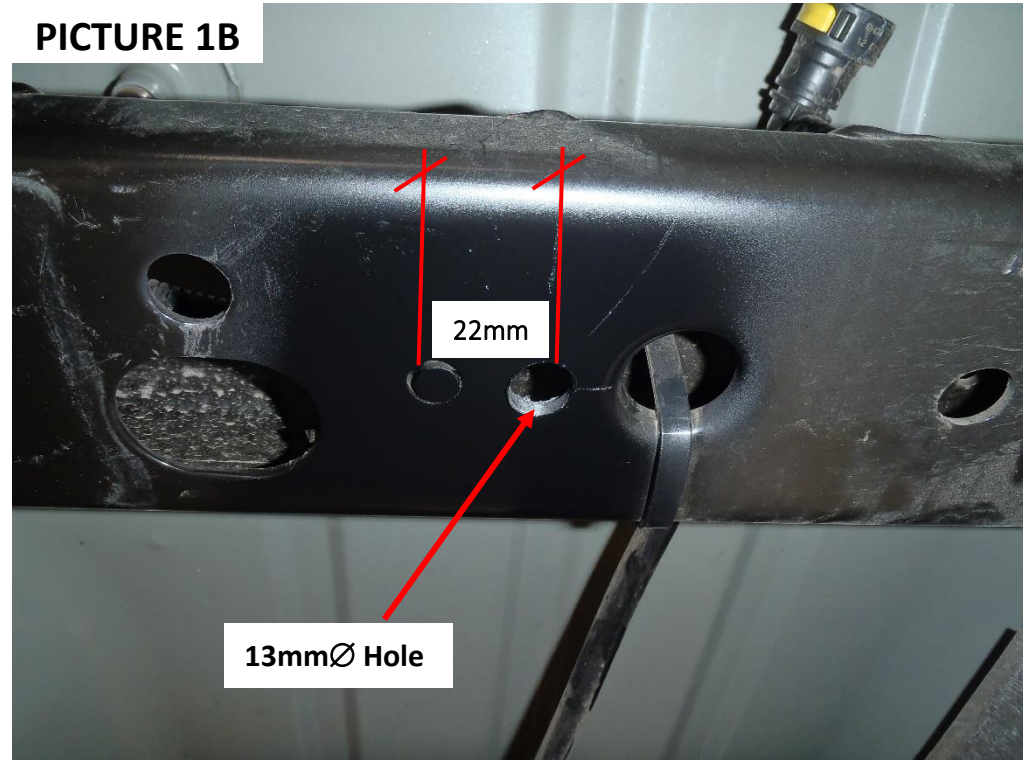
Kit Packed By \_\_\_\_\_

Checked By \_\_\_\_\_

PICTURE 1A



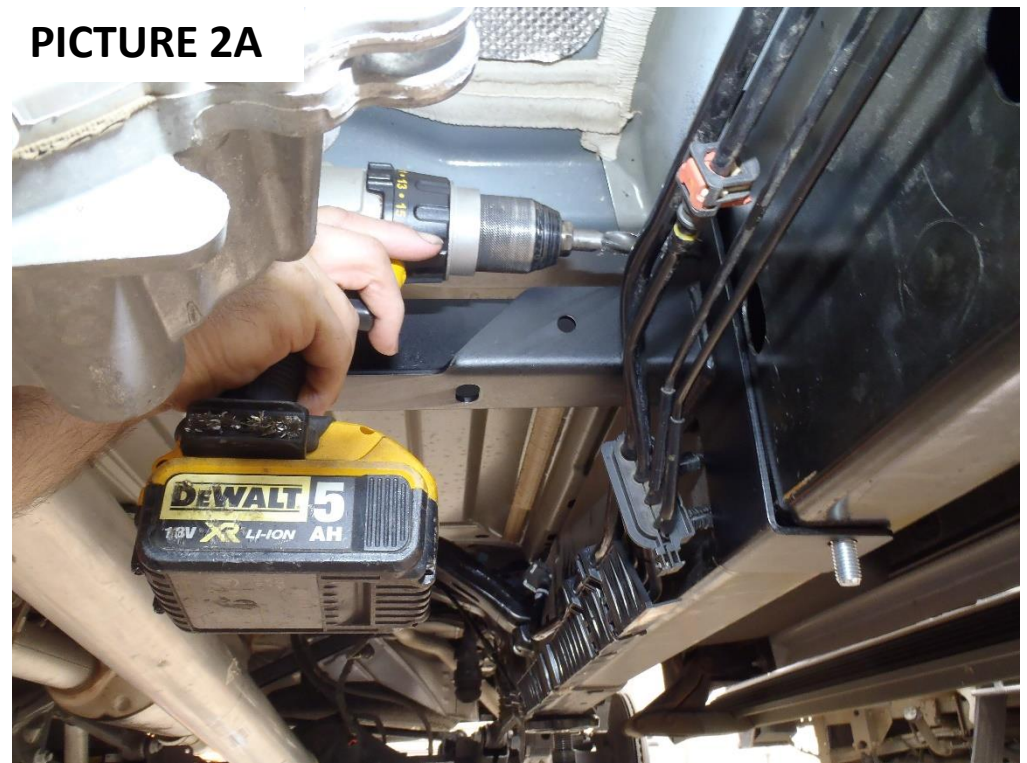
PICTURE 1B



PICTURE 2



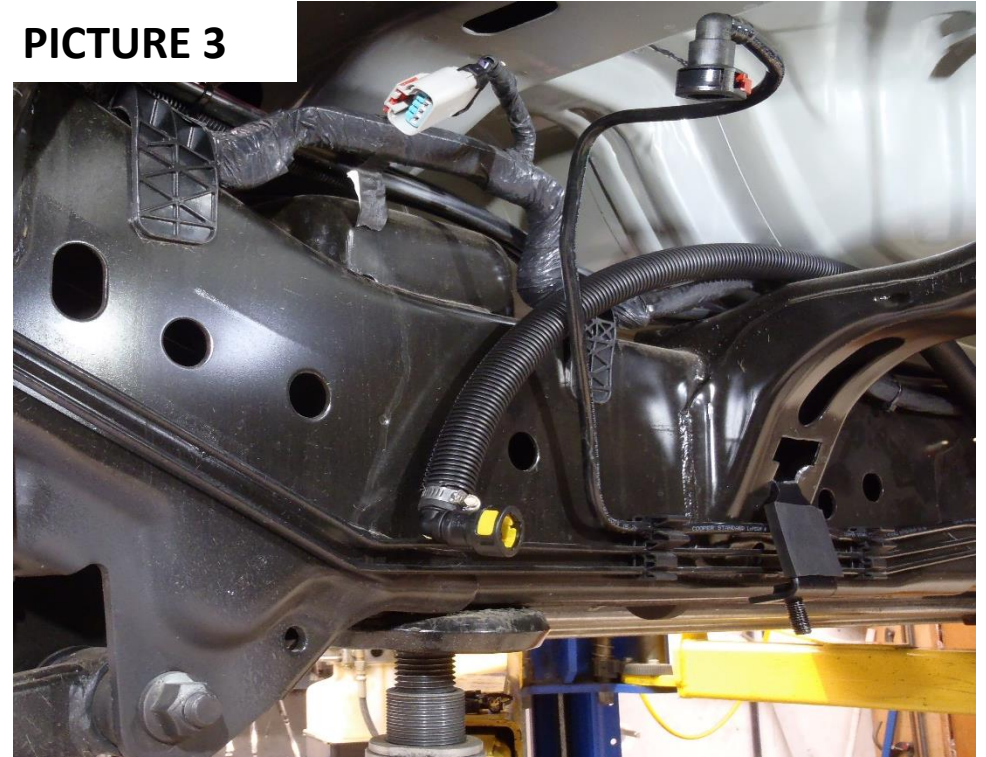
PICTURE 2A



**PICTURE 2B**



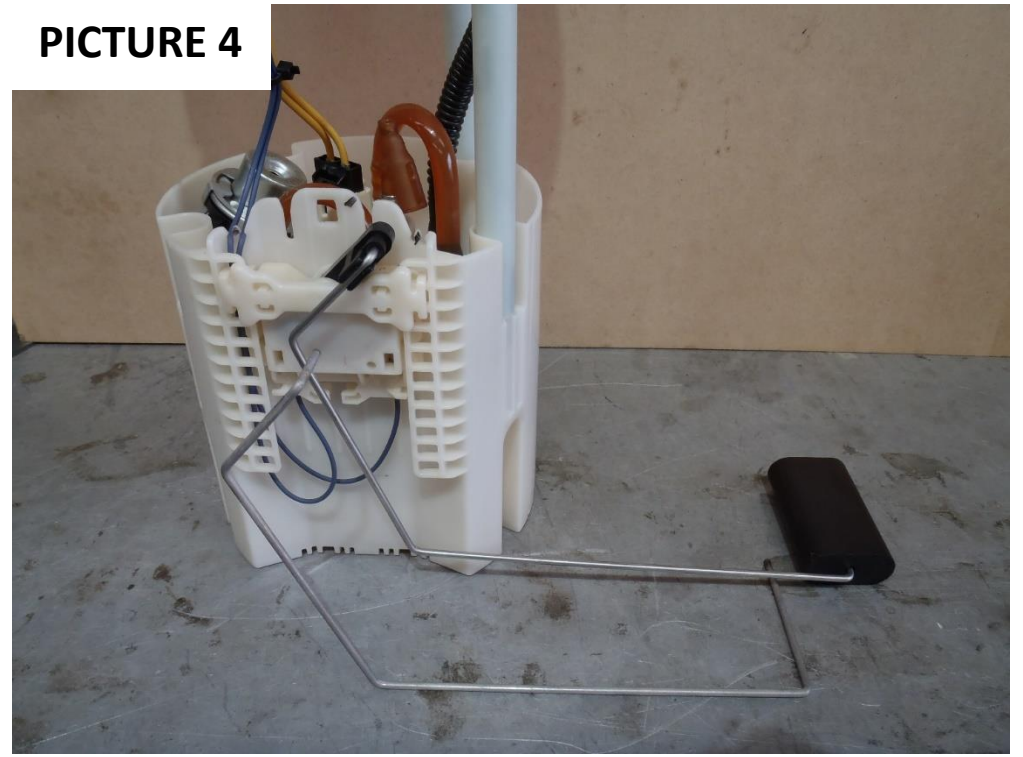
**PICTURE 3**



**PICTURE 3A**

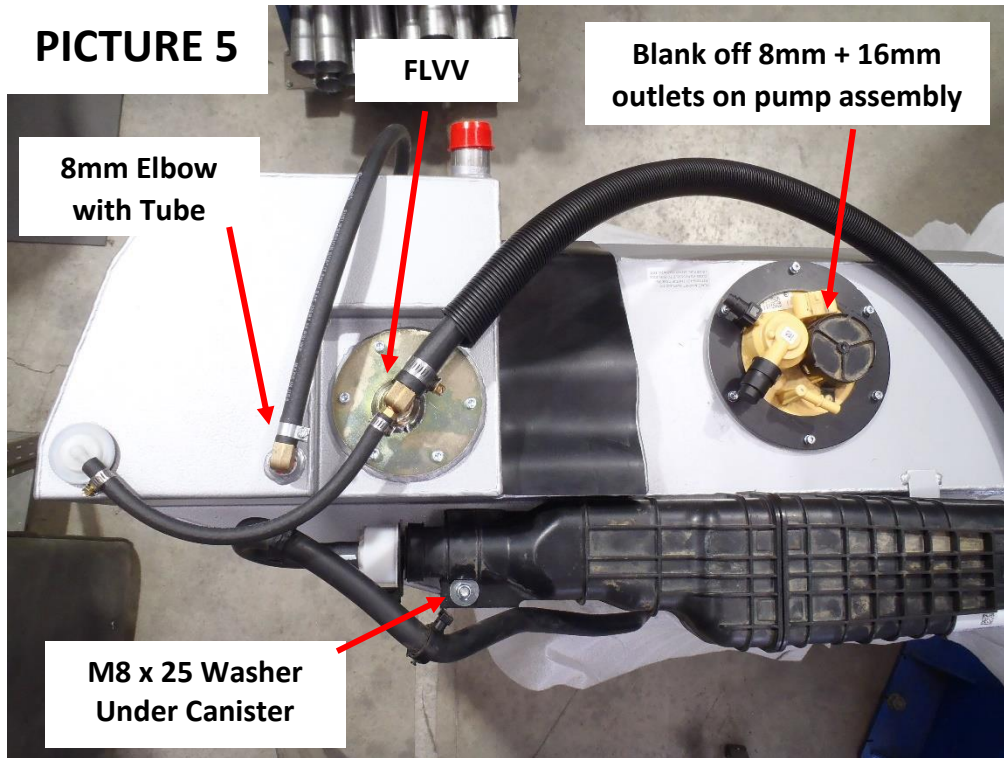


**PICTURE 4**





**PICTURE 5**

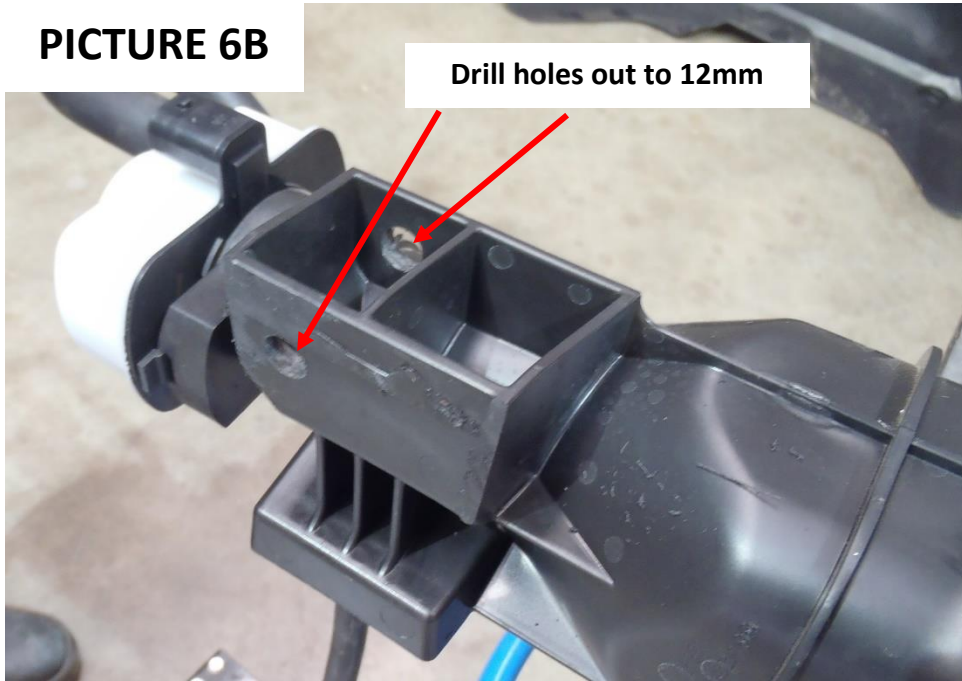


**PICTURE 6A**



**PICTURE 6B**

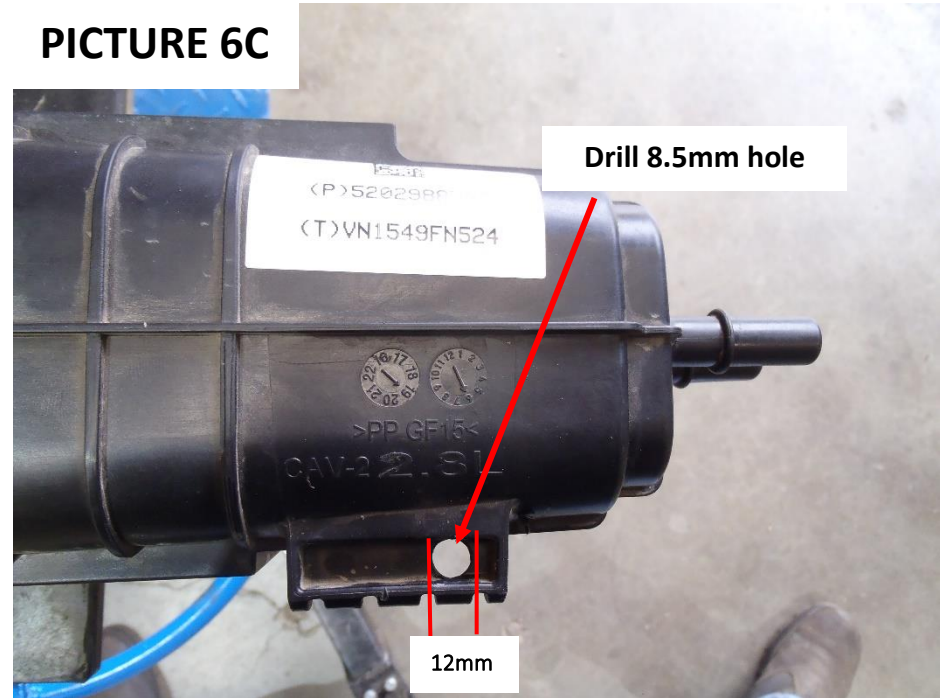
**Drill holes out to 12mm**



**PICTURE 6C**

**Drill 8.5mm hole**

**12mm**

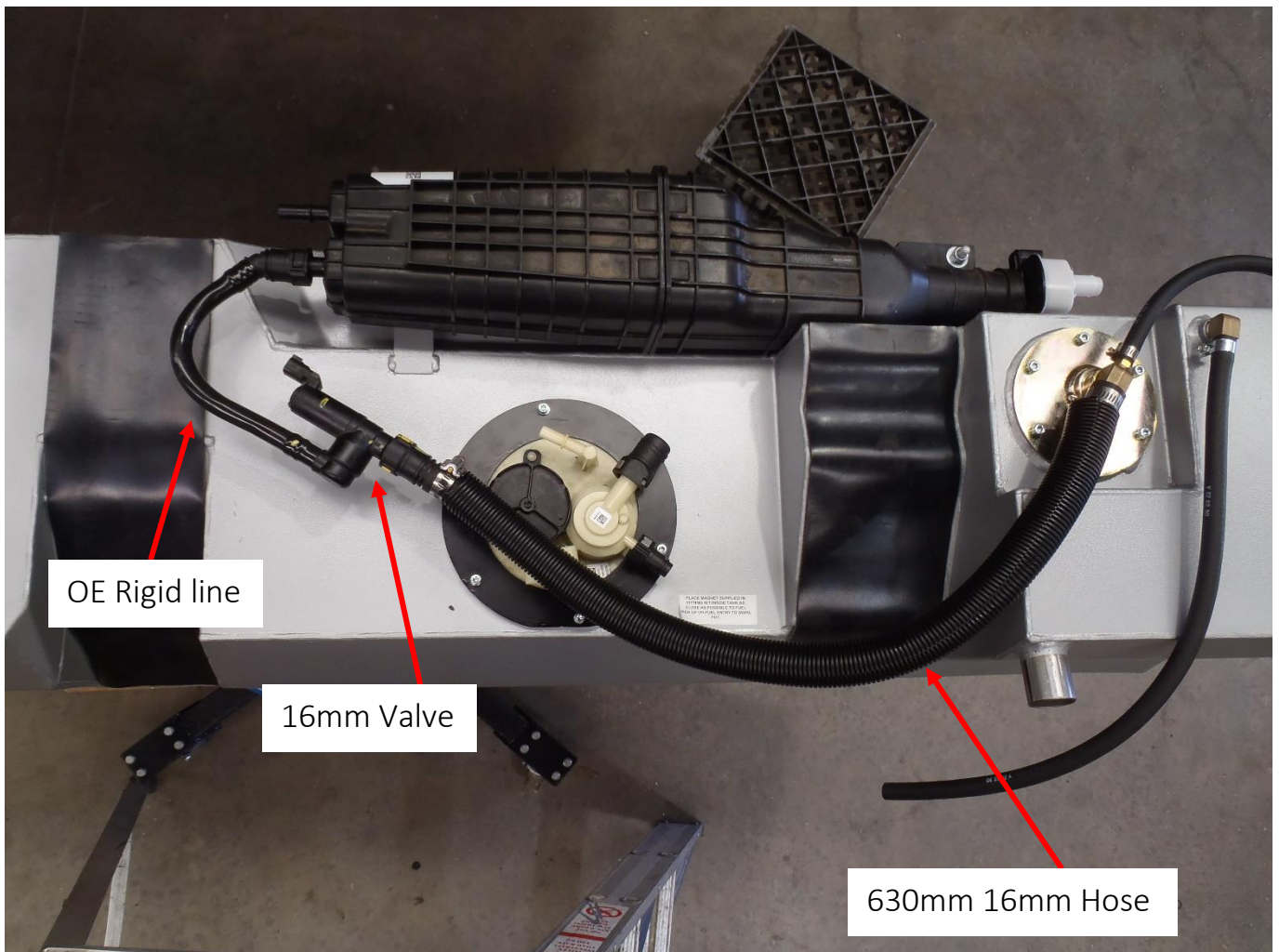


# DR1500DTCCR

## SUPPLEMENTARY INSTRUCTIONS FOR VEHICLES WITH 16MM VALVE ON FLV LINE

Shorten the 910mm length of 16mm hose down to 630mm. Remove the yellow straight 16mm connector from the OE FLV line. Use this connector on the 630mm length of 16mm hose from the FLV to 16mm valve. Leave the OE rigid line on the valve to connect to the canister.

You will need to make this connection as the tank is getting jacked into position.



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SUPPLEMENTARY INSTRUCTIONS FOR VEHICLES WITH 16MM VALVE ON FLV LINE

