



Installation Instructions for DR1500CCR Dodge Ram 1500 Crew Cab 190L Replacement Tank

Updated 21/10 TL

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. Remove transfer case bash shield. Remove wiring clip from the L/H chassis rail approximately 250mm back from the transfer case. Drill hole out to 10.5mm, this is for the extra front mount. Fit the new front mount using 4 x M10 x 30 bolts, 1 x M10 x 30 bolt with wire attached 1 x M12 x 30 with wire and Washers. **(Refer Pic 2).**
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)**
5. Remove pump assembly from the tank, unclip the float arm remove the float and retaining washer and replace it with the new arm from the kit. Peen the end of the arm to keep the retaining washer in place. **(Refer 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 10 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 grommets and roll over valves to the tank. Front valve points to the rear, rear valve points to the driveshaft. Fit the FLVV to the tank using M5 x 12 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 175mm of 6mm hose to remaining fitting on FLVV. Fit 6mm tee to the other end of the hose. Connect rear roll over valve to the tee using 140mm of 6mm hose. Connect front roll over valve once the tank is installed. 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, screw P6 1/2 x 1/4 elbows into the tank. Point rear fitting forward and slightly up and the front fitting to the rear pointing slightly up.
8. Remove fittings from canister purge line and fit to 1200mm of 1/2 rubber hose for the **Express** or cut down to 750mm for the **Laramie**. 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.
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 bolt, nuts, washers and reinforcing plate.
10. Connect FLVV line to the canister and purge line to remaining fitting. Connect front rollover valve to the tee piece. Fit balance line 1/2 hose to fittings on the drive shaft side of the tank. Fix hose to the body with P Clip and Tek screw. 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 DR150CCR

Updated 9/23 - TL

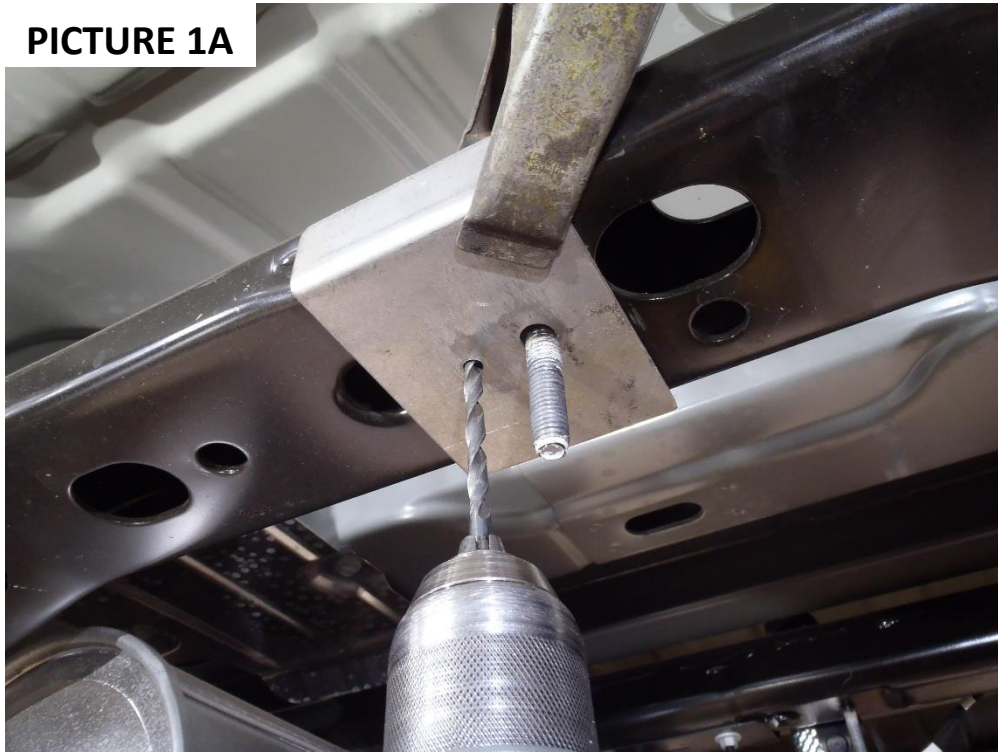
Updated 9/23 - TL	
Brass: <ul style="list-style-type: none"> ○ 1 x P6 5/16 x 1/4 Elbow with 110mm Bundy including thread ○ 2 x P6 1/2 x 1/4 Elbow ○ 1 x P6 5/8 x 3/8 Elbow with 1/4 barb taped in end (For FLVV) ○ 1 x P14 1/4 Tee 	Electrical:
Bolts / Nuts: <ul style="list-style-type: none"> ○ 1 x M8 x 25 Bolt ○ 1 x M8 Spring Washer ○ 4 x M10 x 30 Bolts ○ 1 x M12 x 85 Bolt ○ 1 x M12 x 110 Bolt ○ 3 x M12 x 30 Bolts ○ 2 x M8 x 20 Washers ○ 1 x M8 x 25 Washer ○ 4 x M10 x 20 Washer ○ 5 x M10 x 25 Washers ○ 1 x M8 Nyloc Nuts ○ 5 x M10 Nyloc Nuts ○ 7 x M12 Nyloc Nuts ○ 12 x M5 x 10 Cap Screws ○ 1 x TEK Screw ○ 12 x M5 Spring Washers ○ 12 x M12 Heavy Duty Washers ○ 1 x 8mm EFI Blanking Cap ○ 1 x 16mm EFI Blanking Cap ○ 1 x P Clip 25Ø ○ 1 x M10 x 30mm Bolt 300 Wire ○ 1 x M12 x 30mm Bolt 300 Wire 	Misc Parts: <ul style="list-style-type: none"> ○ 2 x Roll Over Valve CPC (No Screw) ○ 2 x LRA-FTG2 Grommet ○ 1 x Front Bracket (2 Pieces) ○ 2 x Outer Strap Mounts (1 Short with M12 x 30mm Bolt welded 1 Long) ○ 2 x Inner Strap Folded Reinforcing Plates ○ 1 x O-Ring BS357 ○ 1 x O-Ring BS337 ○ 1 x 50mm Rubber Strap @ 50mm ○ 1 x 50mm Rubber Strap @ 110mm ○ 1 x 50mm Rubber Strap @ 650mm ○ 1 x 50mm Rubber Strap @ 790mm ○ 1 x Long Tank Strap (Rear) ○ 1 x Short Tank Strap (Front) ○ 1 x Pump Hold Down Ring ○ 1 x 3mm rubber 120mm x 430mm Glued to tank ○ 1 x 3mm rubber 120mm x 330mm Glued to tank ○ 2 x Drilling Jigs ○ 1 x FLV 137-16-06 Valve

Hose Clamps:	Cable Ties:
<ul style="list-style-type: none"> ○ 6 x 1/4" Hose Clamps ○ 5 x 1/2" Hose Clamps ○ 2 x 5/8 Hose Clamps ○ 2 x EFI Hose Clamps 	<ul style="list-style-type: none"> ○ 4 x 7" Cable Ties ○ 2 x 11" Cable Ties
Sender:	Pumps & Filters:
<ul style="list-style-type: none"> ○ 1 x DR1500CCR Float Arm 	
Hose:	8 Pages of Fitting Instructions Consisting of:
<ul style="list-style-type: none"> ○ 1 x 6mm Hose @ 1000mm ○ 1 x 6mm Hose @ 175mm ○ 1 x 6mm Hose @ 140mm ○ 1 x 8mm Hose @ 500mm ○ 1 x 12mm Hose @ 1200mm ○ 1 x 12mm Hose @ 1100mm ○ 1 x 16mm Hose @ 910mm ○ 1 x Conduflex CF20 @ 1100mm ○ 1 x Conduflex CF20 @ 1000mm ○ 1 x Conduflex CF23 @ 800mm 	<ul style="list-style-type: none"> ○ 2 x Pages Fitting Instructions ○ 2 x Pages Fitting Kit Contents ○ 4 x Pages Reference Pictures 1A-6C

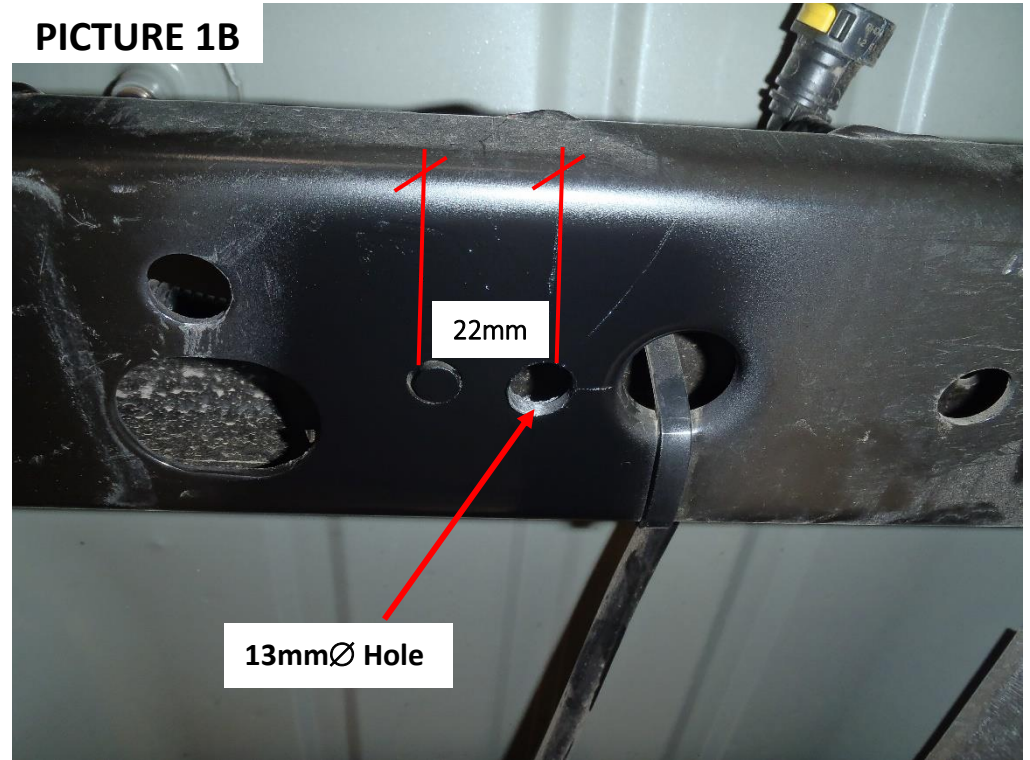
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Checked By _____

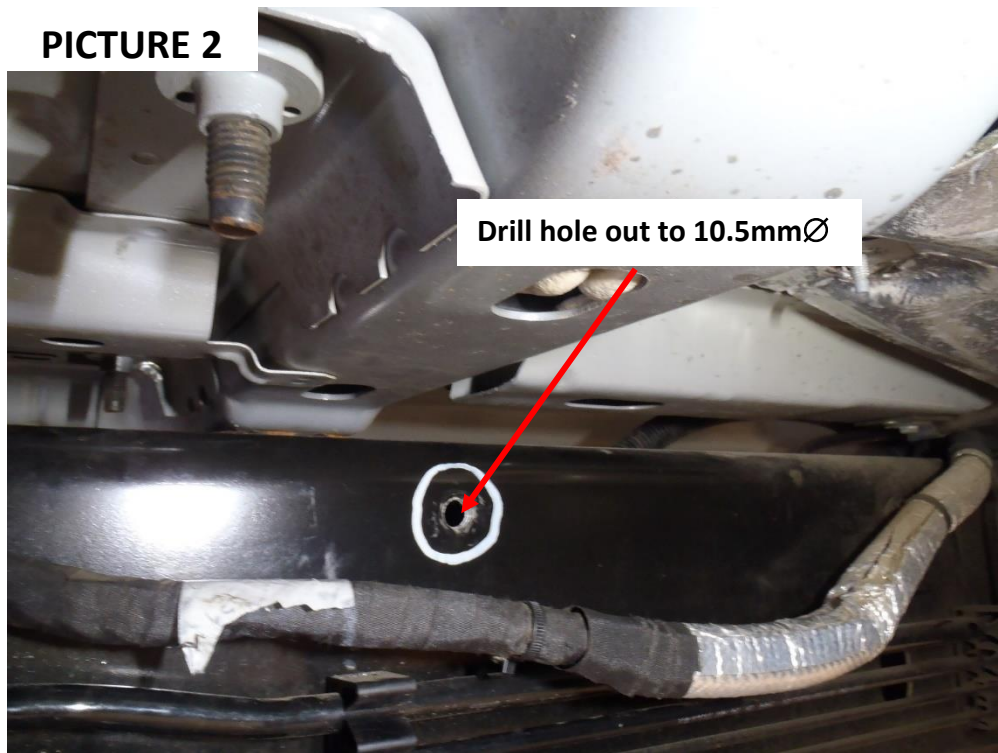
PICTURE 1A



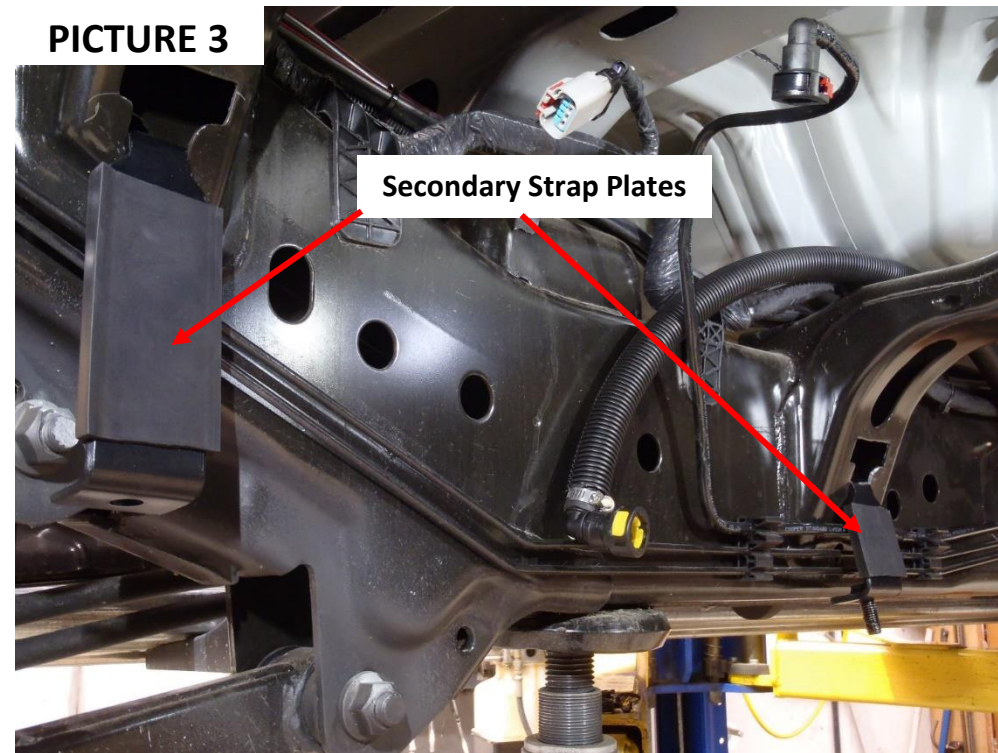
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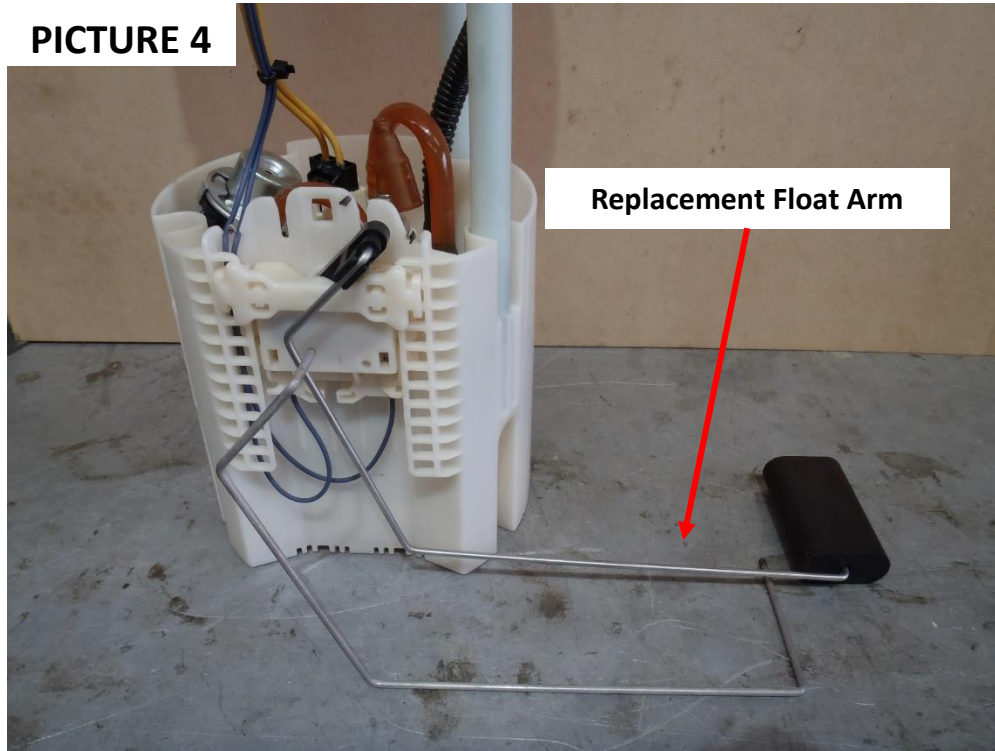
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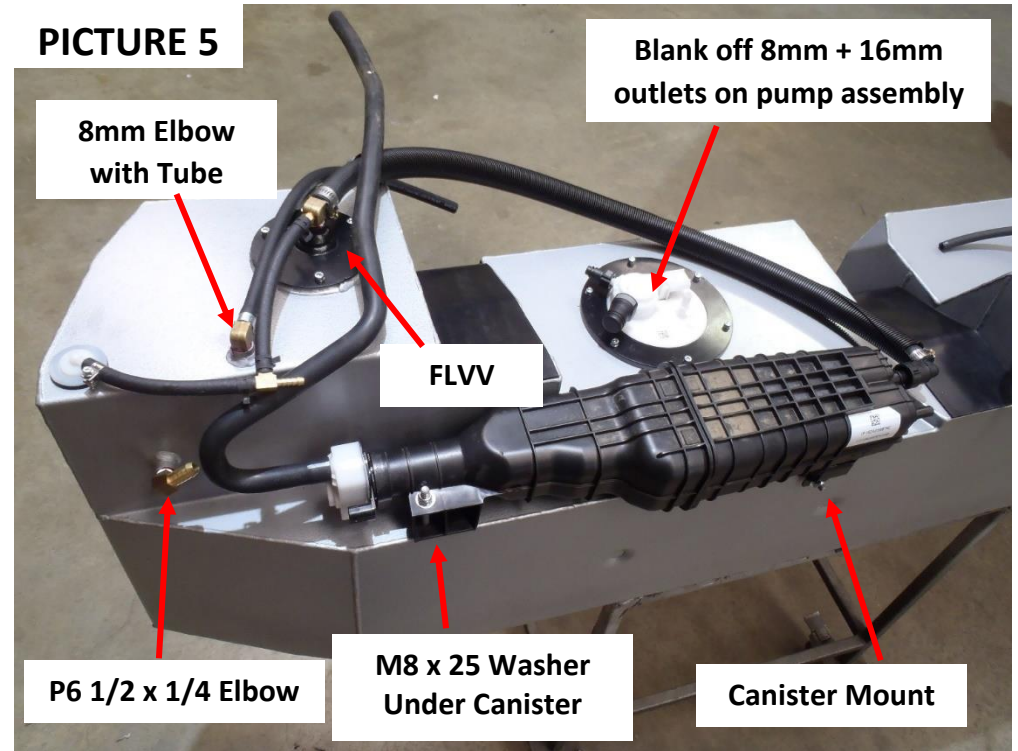
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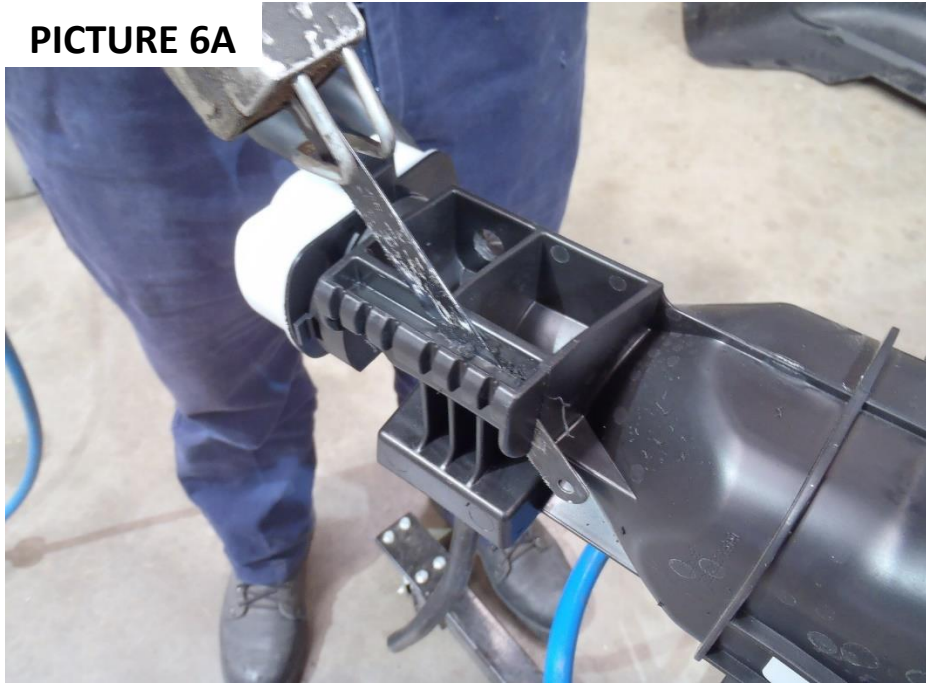
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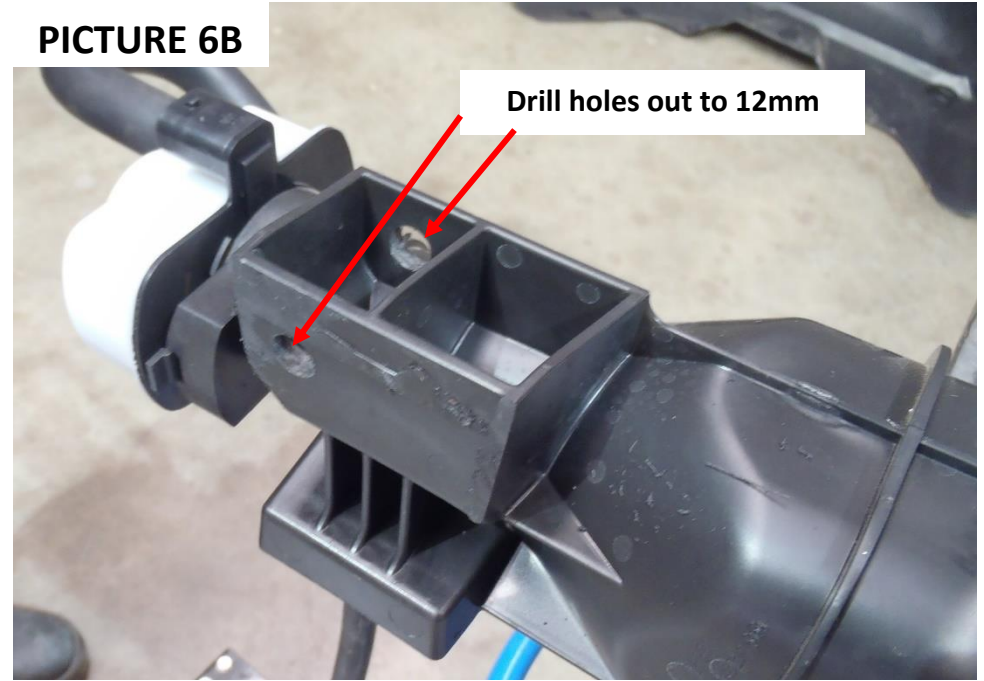
PICTURE 5



PICTURE 6A



PICTURE 6B



PICTURE 6C

