Installation Instructions for MPSPRA
Mitsubishi Pajero Sport QE
135lt Auxiliary Tank

1. Select a suitable location on the dash for the switch gauge unit and carry out wiring as per instructions (Ref Pic 1). A 12 Volt ignition power source can be found under the R/H kick panel, Yellow wire with a Green trace (Ref Pic 2). Run the twin core under the RHS scuff plates and drill an 8mm hole just past the center pillar to place the grommet in so the cable can be run to the rear for connection to the transfer pump and sender unit (Ref Pic 3)

2. Remove the spare wheel and winder mechanism. Remove the LHR inner wheel arch cover to reveal the OEM fuel fill pipe. Remove the fill pipe assembly from the vehicle and cut as shown in diagram Install-1. Make sure all the cut ends are filed smooth.

3. Screw the brass fittings into the twin filler neck as per diagram Install-2. Fit 350mm length of 16mm hose to the main tank fast fill elbow on the twin filler and the 680mm length of 16mm hose to the auxiliary fast fill elbow on the twin filler. Fit the twin filler and connect to the original fill pipe with the 35mm Fuel hose@80mm long.

4. You will need to modify the tail pipe section of the exhaust so that it comes out on the outside of the chassis rail. Cut the top rear exhaust hanger stud 60mm long. This then gets welded to the mount plate to become the new rear top mount which will be bolted to the outside of the chassis rail (Ref Pic 4). Carefully trim the mount from the tail pipe.

5. Block the tail pipe near the pan hard rod and bend the tail pipe out to the RHS until it sits central between the end of the tow bar and the bumper (Ref Pic 5) you may need to cut the tail pipe at the front of the resonator to achieve this.

6. Move the rear flexible brake line bracket forward to the next hole in the chassis using M8 bolt spring washer and nut (Ref Pic 6)

7. Fitting Secondary brackets. Using a straight edge ruler measure 127mm for RHS and 135mm for LHS to the rear from the hole that is in the underside of the spare Wheel cross member. Keep the new bracket parallel with the underside of this cross member, Drill a 10.5mm hole for the top hole in the new bracket and bolt in place with the bolt plate that has M10 and M8 bolts welded to it. Repeat for the other side (Ref Pic 7).

8. Open the hole up in the cross member to 10.5mm and place the 120mm x 30mm plate with the M10 bolt welded inside the cross member and out through this hole.

9. Using the C9 Exhaust clamp mount the fuel transfer pump to the round cross member with the inlet to the RHS (Ref Pic 8)

10. Fit the grommet and roll over valve to the top of the tank and attach 1300mm length of hose to this. Screw the P6 5/16 x ¼ Elbow into the front of the tank pointing slightly up, this is the fuel pick up. Screw the P3 5/8 x 3/8 straight fitting into the side of the tank near the filler.

11. If you are retaining the original rear bar you must bend the two brackets on the bottom edge up and refit the plastic clips to give clearance to the rear of the tank.

12. Jack the tank into position and secure with 3 x C11 clamps for the front and M10 bolts and Nyloc nuts for the rear.

13. With the tank in position you can now see where you need to neatly trim the wheel arch flange on a 25mm Radius to make clearance for the auxiliary tank fill pipe and hose. (Ref Pic 9)

14. Connect the remaining fuel transfer lines from the tank to the transfer pump and pump in port in the filler neck.

15. Connect the 6mm line from the roll over valve to the P6 ¼ x 1/8 Elbow on the twin neck.

16. Connect the Auxiliary tank fill pipe and 16mm fast fill vent lines

17. Neatly cable tie all hoses and fittings out of the way.

18. Trim the bottom edge of the inner wheel arch cover and refit.

FITTING KIT CONTENTS MPSPRA

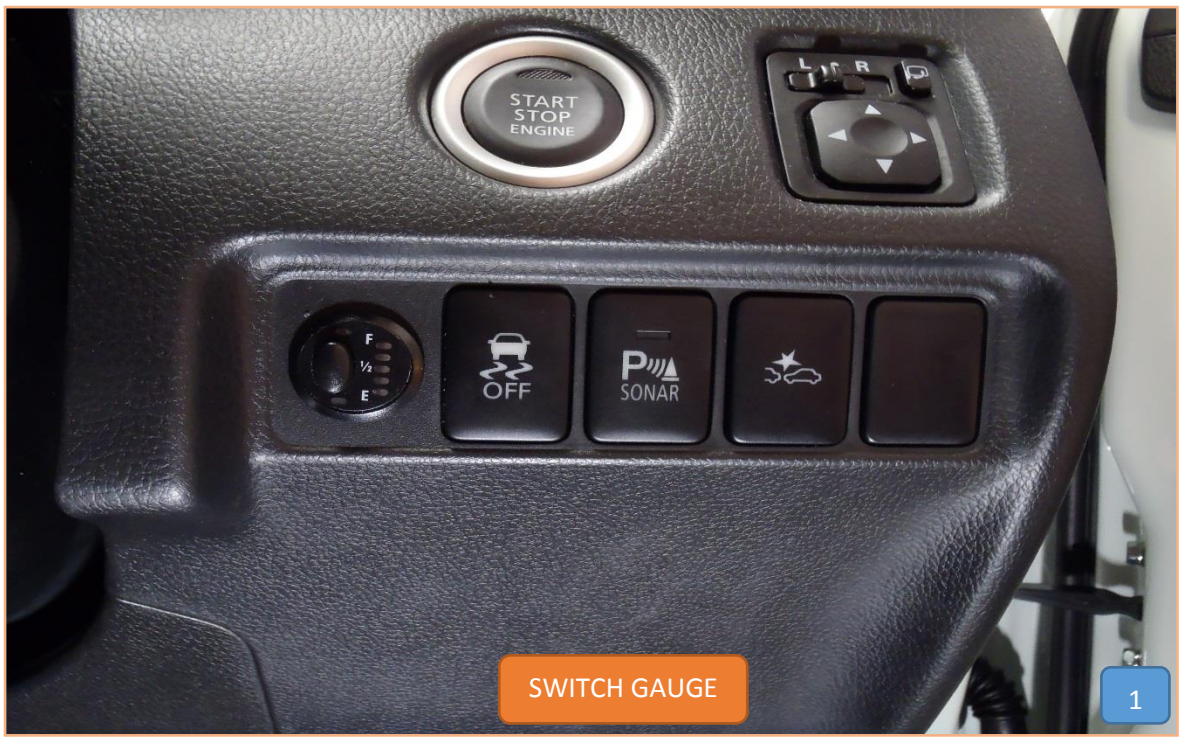
Updated
3/22 - TL

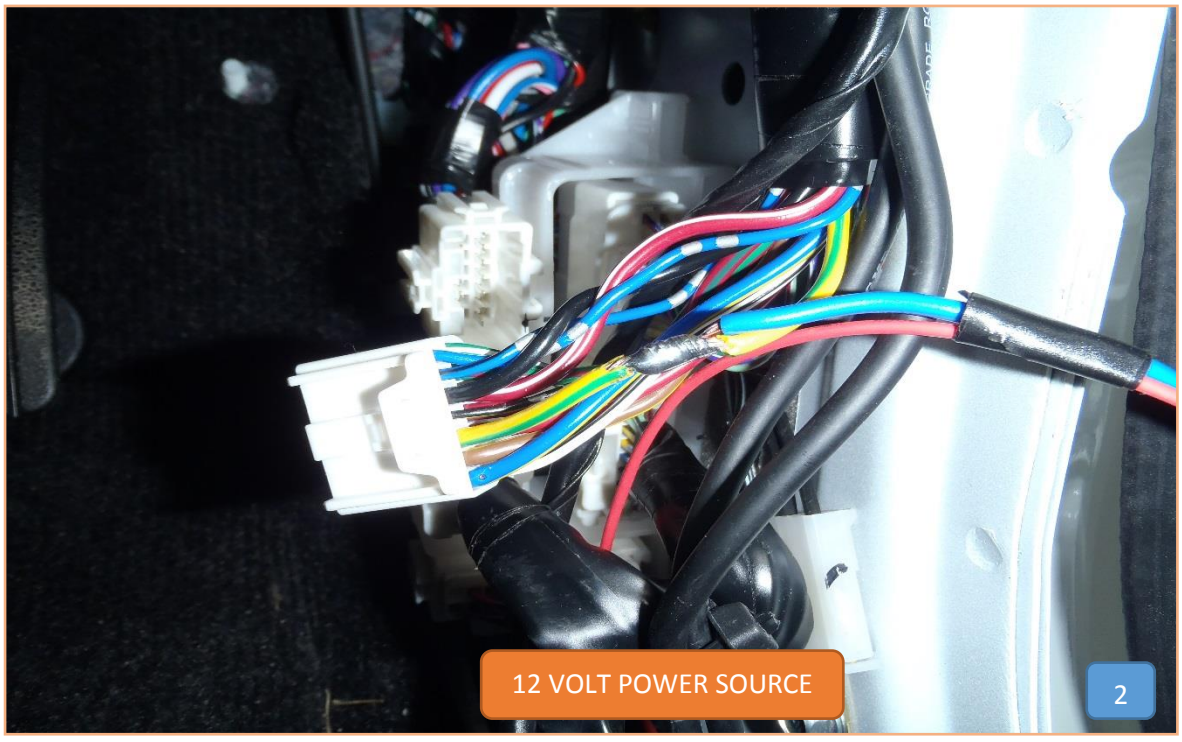
Brass:	Electrical:
○ 1 x P6 1/4 x 1/8 Elbow ○ 1 x P6 5/16 x 1/4 Elbow ○ 1 x P3 5/16 x 1/8 Straight ○ 1 x P3 5/8 x 3/8 Straight ○ 2 x P6 5/8 x 3/8 Elbows	○ 1 x LRA-PG210 Switch/Gauge ○ 1 x 3mm Two Core @ 5000mm ○ 1 x 4mm Single Core Blue Wire @ 300 ○ 1 x 5 AMP Fuse ○ 1 x Fuse Holder ○ 2 X Fuse Holder Terminals ○ 1 x 5/16 Wiring Grommet ○ 1 x 6mm Blue Eye Terminal ○ 1 x Red Insulated Terminal ○ 2 x Red Eye Terminal ○ 3 x 3mm Shrink Tube @ 30mm
Bolts / Nuts:	**Misc Parts:**
○ 2 x M5 x 20mm CS Screws ○ 2 x M5 Nyloc Nuts ○ 1 x M6 Nyloc ○ 3 x M6 x 20mm Washer ○ 2 x M8 x 17mm Washers ○ 2 x M8 Nyloc Nuts ○ 2 x M10 x 30mm Bolts ○ 8 x M10 x 25mm washers ○ 6 x M10 Nyloc Nuts ○ 1 x M12 x 30mm Bolt ○ 1 x M12 x 25mm Washer ○ 1 x M12 Nyloc Nut ○ 1 x M8 x 25 Bolt on 20mm Strap ○ 1 x M8 Plain Nut ○ 1 x M8 Spring Washer	○ 1 x Twin Filler #FNMPSPRA ○ 1 x Fill Pipe #FPMPSPRA ○ 1 x Roll Over Valve ○ 1 x Grommet ○ 2 x Angle Secondary Brackets ○ 2 x Bolt plate with M8 +M10 Bolt Welded ○ 2 x 120mm x 30mm with M10 Bolt Welded ○ 1 x 55mm x 40mm Exhaust Hanger Bracket ○ 1 x C9 Clamp For Pump Mount ○ 3 x C11 Clamps with Nyloc and Washers (No Saddle Req)

Hose Clamps:	Hose:
○ 6 x 1/4 Hose Clamps ○ 4 x 5/8 Hose Clamps ○ 6 x 1 1/4 Hose Clamps	○ 1 x 6mm Hose @ 1300mm ○ 1 x 8mm Hose @ 750mm ○ 1 x 8mm Hose @ 1100mm ○ 1 x 35mm Hose @ 80mm ○ 2 x 38mm Hose @ 80mm ○ 1 x 16mm NTP Hose @ 350mm ○ 1 x 16mm NTP Hose @ 680mm ○ 1 x 16mm Conduflex @ 600mm
Pumps & Filters:	**Cable Ties:**
○ 1 x Fuel Pump & Filter ○ 1 x Fuel Pump Mounting Plate	○ 5 x 7” Cable Ties ○ 4 x 11” Cable Ties
Sender:	**12 Pages of Fitting Instructions Consisting of:**
○ 1 x 0-90 OHM Sender C/W 550mm Earth, Installed Using: - 5 x M5 x10mm Pan heads - 5 x M5 Spring Washers	○ 2 x Pages Fitting Instructions ○ 2 x Page Fitting Kit Contents ○ 5 x Pages Fitting Instruction Pictures ○ 1 x Page Drawing Install-1 ○ 1 x Page Drawing Install-2 ○ 1 x Page WDSGPG210

Kit Packed By_____ Checked By _____

Fitting Instruction Photos MPSPRA





Fitting Instruction Photos MPSPRA

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EXHAUST TAIL PIPE POSITION

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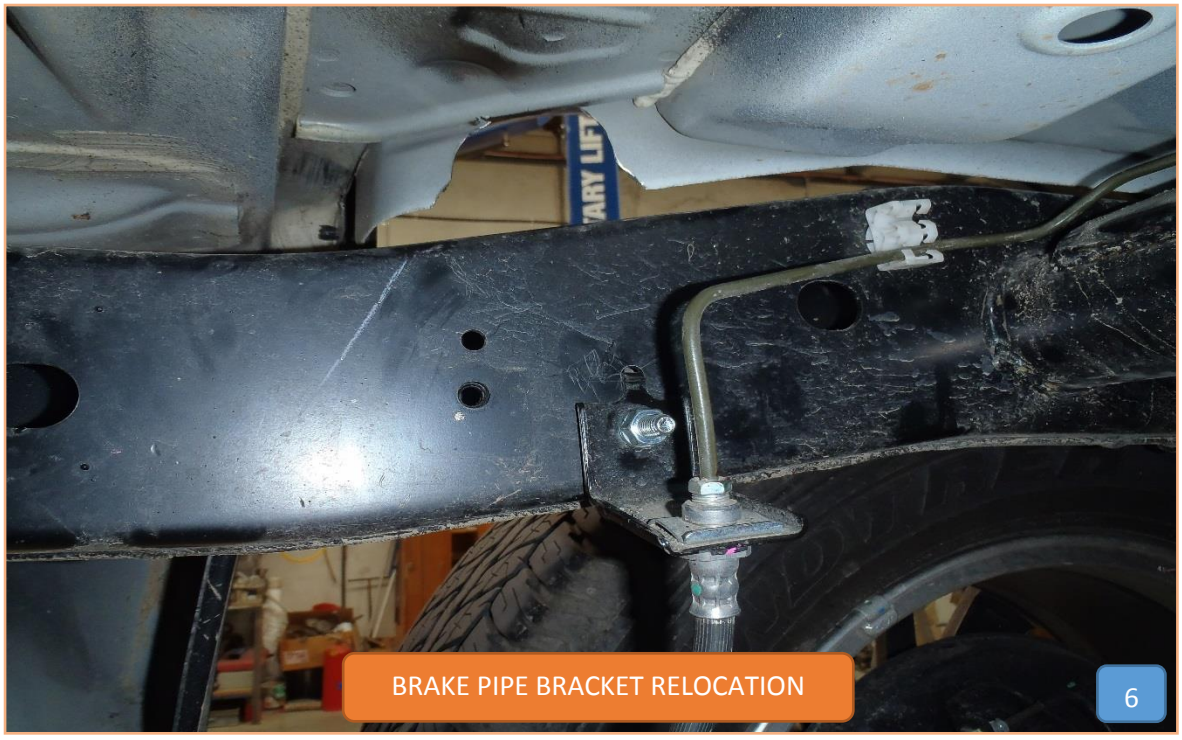
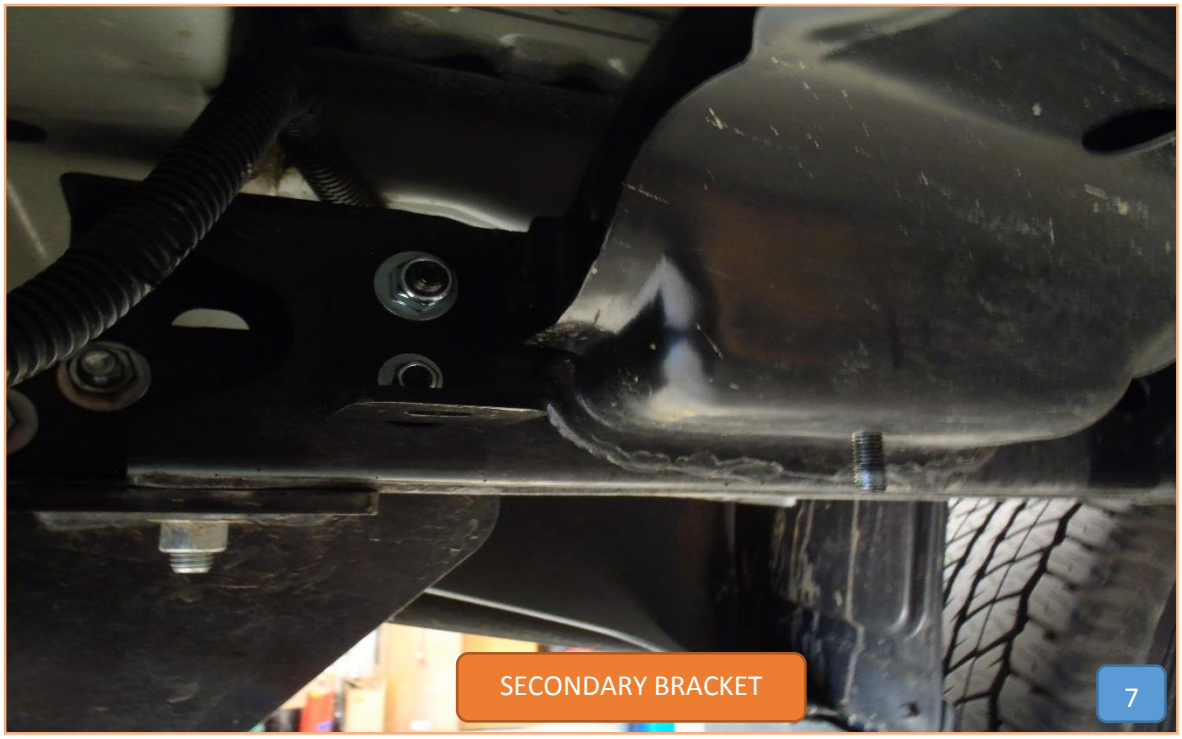
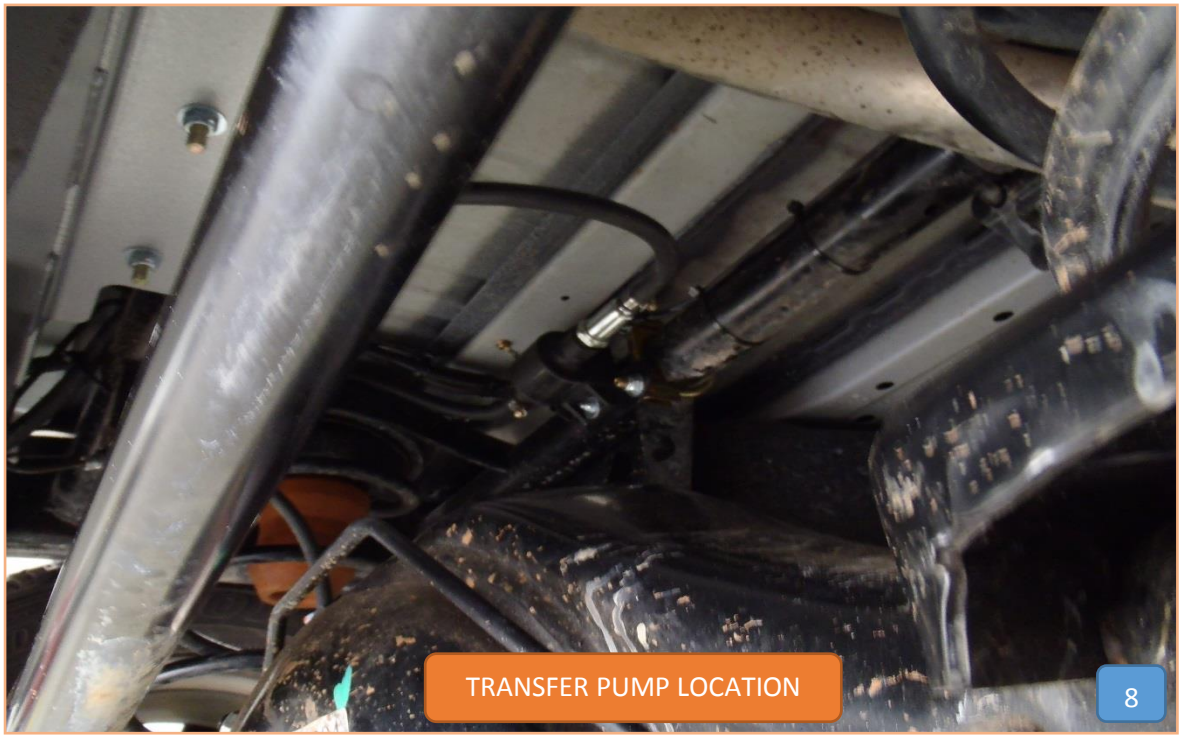


BRAKE PIPE BRACKET RELOCATION

6

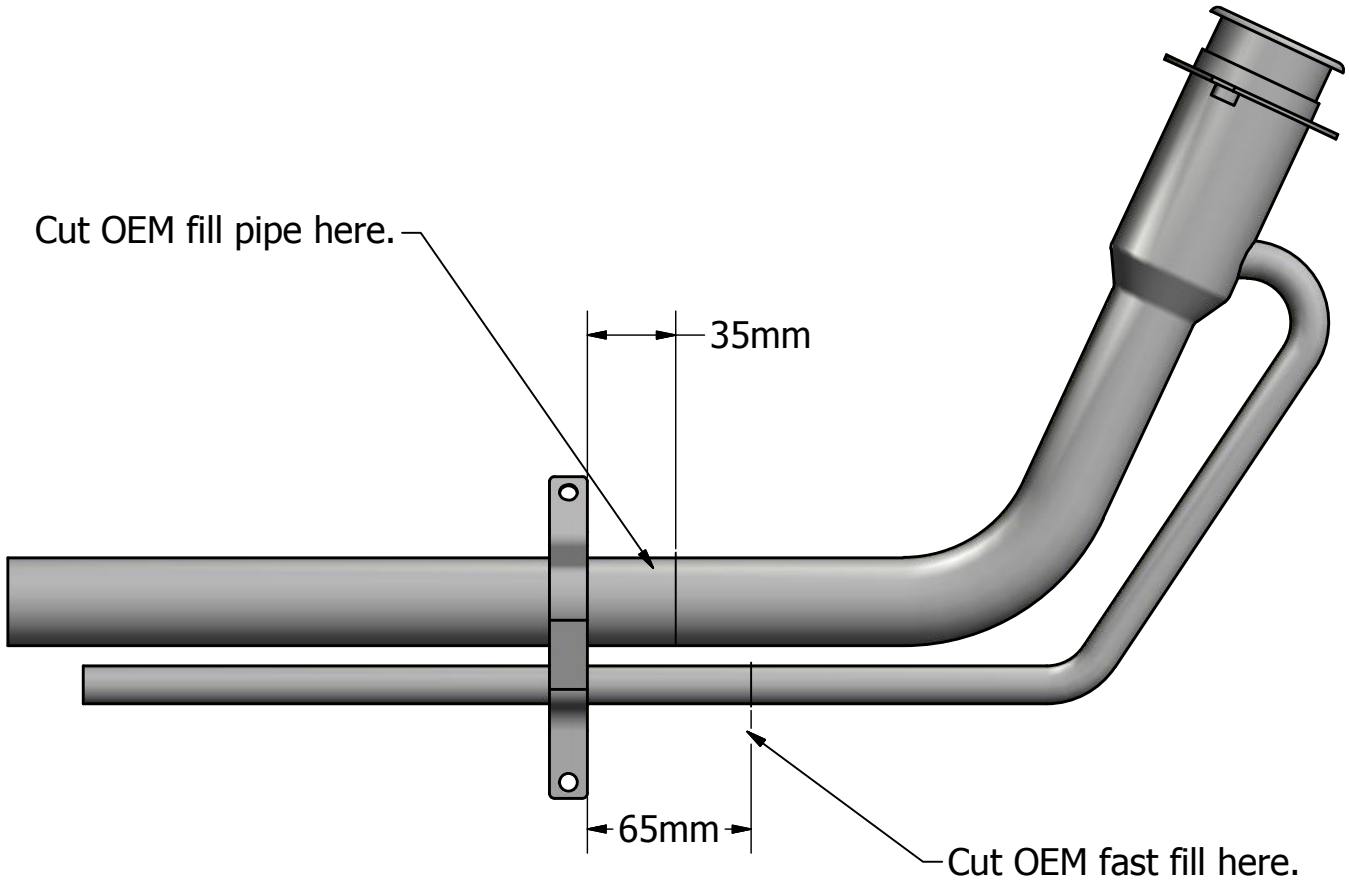
Fitting Instruction Photos MPSPRA





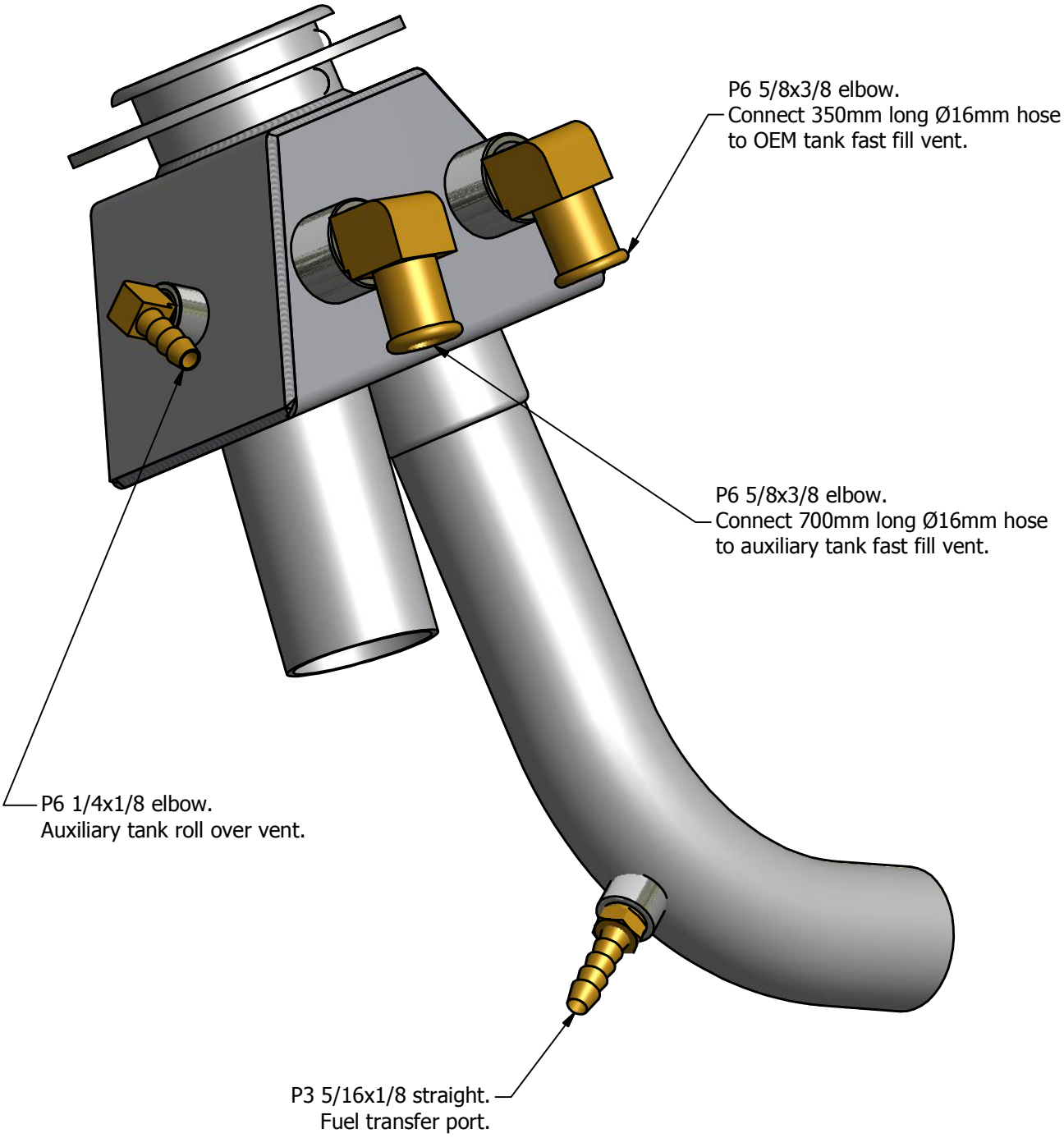
Fitting Instruction Photos MPSPRA

NOTE:
Cutting positions for OEM tank fill pipe and fast fill pipe
located in left hand rear wheel arch.



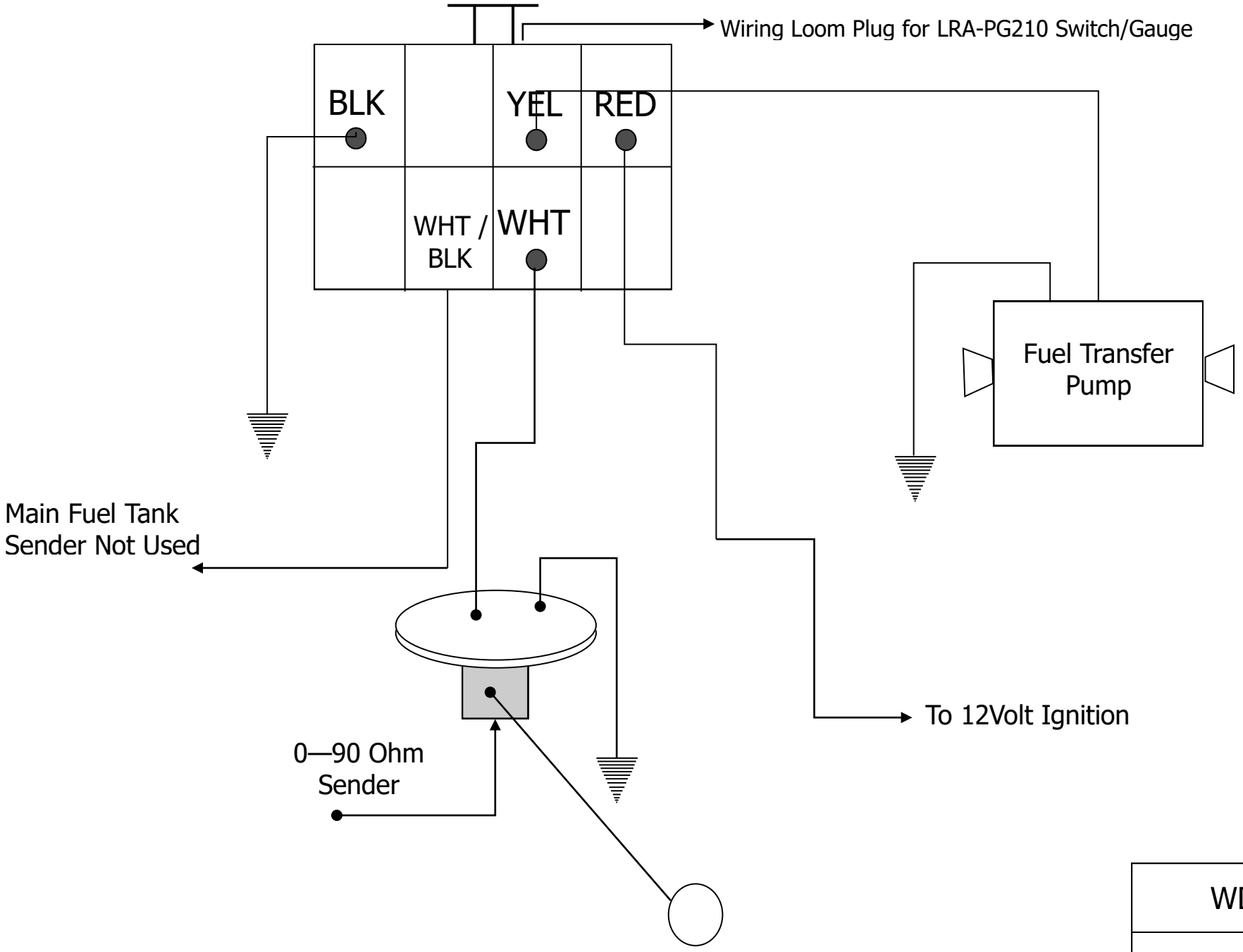
MPSPRA	INSTALL-1

Mitsubishi Pajero Sport QE. Rear auxiliary OEM filler modifications.



MPSPRA	INSTALL-2

Mitsubishi Pajero Sport QE rear auxiliary twin filler assembly.


Wiring Loom Plug for LRA-PG210 Switch/Gauge
BLK
YEL
RED
WHT / BLK
WHT
Fuel Transfer Pump
Main Fuel Tank Sender Not Used
To 12Volt Ignition
0—90 Ohm Sender

WDSGPG210