

Brown Davis Automotive Pty. Ltd.
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MITSUBISHI PAJERO LWB (NM 2000on) - PETROL & DIESEL AUXILIARY FUEL TANK PARTS LIST AND FITTING INSTRUCTIONS PART NUMBER: MPLA7

Item #	Description	Quantity	Part No.	P	C
1	TANK—AUXILIARY	1	MPLA7	-	-
2	DRAIN PLUG—MAGNETIC—M14 (FITTED TO THE TANK)	1		-	-
3	HOSE – TMP – 6mm	1.2m			
4	HOSE – TMP - 12.5mm	220mm			
5	HOSE – TMP – 16mm	2.2m			
6	HOSE – FUEL AND EMISSION - 8mm	1.2m			
7	HOSE – FILLER – 35mm	100mm			
8	HOSE – FILLER – 48mm	100mm (x3)			
9	HOSE CLAMP – STAINLESS – 8-16mm	6			
10	HOSE CLAMP – STAINLESS – 12-22mm	2			
11	HOSE CLAMP – STAINLESS – 16-25mm	4			
12	HOSE CLAMP – STAINLESS – 32-50mm	2			
13	HOSE CLAMP – STAINLESS – 40-60mm	6			
14	FUEL PICK UP – 5/16" x 1/4" BSP ELBOW *CUT TO SIZE*	1			
15	BRASS FITTING-ELBOW– 5/16" x 1/8" BSP	2			
16	BRASS FITTING-ELBOW– 1/2" x 1/4" BSP	1			
17	BRASS FITTING-ELBOW- 5/8" x 3/8" BSP	1			
18	BRASS FITTING-TAIL BARB– 1/2" x 1/4" BSP	1			
19	CABLE TIE - 360mm BLACK	6			
20	FUEL GUAGE/SWITCH – CP 309GS LED DASH UNIT	1			
21	LOOM WITH BUZZER	1			
22	WIRE – TWIN CORE – 3.0mm – BROWN/WHITE—WITH PLUG	8m			
23	CRIMP FITTING – SPADE FEMALE 6mm - INSULATED - RED	1			
24	CRIMP FITTING – SPADE FEMALE 4mm - RED	1			
25	CRIMP FITTING - RING 5MM - RED	1			
26	CRIMP FITTING – JOINER 3mm - RED	1			
27	SCOTCH LOCK	1			
28	SENDER UNIT - VDO 220-004—FITTED TO TANK	1			
29	FUEL PUMP – POSI-FLO	1			
30	FUEL FILTER – INLINE 90° – 8mm	1			
31	SCREW - SELF TAPPER	4			

KIT CONTINUES ON NEXT PAGE



LONG RANGE FUEL TANKS
MPLA7

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Item #	Description	Quantity	Part No.	P	C
32	SET SCREW – PAN HEAD – M4 x 10mm – PLATED 8.8	5			
33	WASHER – SPRING PLATED – M4	5			
34	WASHER – PANEL PLATED – M5	2			
35	WASHER – FLAT PLATED – M6	3			
36	SET SCREW – HEX – M8 x 25mm – ON WIRE	2			
37	SET SCREW – HEX – M8 x 25mm – PLATED 8.8	2			
38	WASHER – PANEL PLATED – M8	2			
39	WASHER – SHAKEPROOF PLATED – M8	2			
40	NUT– STANDARD PLATED – M8	4			
41	SET SCREW – HEX – M10 x 25mm – PLATED 8.8	3			
42	WASHER – SHAKEPROOF PLATED – M10	3			
43	WASHER – PANEL PLATED – M10	3			
44	NUT– STANDARD PLATED – M10	6			
45	TANK BRACKET— <i>WHEEL ARCH PROTECTION PLATE</i>	1	TB-MPLA7		
46	TWIN FILLER— <i>WITH CAP THREAD GLUED IN</i>	1	TF-MPLA7		
47	FILLER TUBE	1	FT-MPLA7-A		
48	FILLER TUBE— <i>WITH REDUCER</i>	1	FT-MPLA7-B		
49	WARRANTY CARD & INFORMATION	1			
50	BROWN DAVIS AUTOMOTIVE STICKER	1			


	STAFF MEMBERS INITIALS	DATE
KIT PACKED BY		
KIT CHECKED BY		




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PART NUMBER: MPLA7 AUXILIARY FUEL TANK PARTS LIST AND FITTING INSTRUCTIONS

<p>WARNING:</p> <p>THIS FUEL TANK IS HEAVY. DO NOT ATTEMPT TO LIFT THIS FUEL TANK WITHOUT APPROPRIATE ASSISTANCE OR SERIOUS INJURY MAY RESULT</p>	
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<p>WARNING:</p> <p>ENSURE A FIRE EXTINGUISHER IS AVAILABLE WHILST WORKING NEAR EXPOSED FUEL</p>	
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- **SOME DRILLING OF VEHICLE REQUIRED - 10.5mm DRILL BIT NEEDED**
- **STANDARD FILLER WILL NEED TO BE TRIMED TO LENGTH - HACKSAW NEEDED**
- **BASIC TOOL KIT REQUIRED**
- **12 VOLT ELECTRICAL WORK REQUIRED**
- **CHECK CONTENTS OF KIT BEFORE COMMENCING FITMENT**
- **DRAIN VEHICLE FUEL TANK TO LOWEST LEVEL POSSIBLE BEFORE COMMENCING FITMENT**
- **BEFORE INSTALLATION THE BROWN DAVIS LONG RANGE TANK SHOULD BE WASHED OUT WITH THE SAME FUEL TYPE AS THE VEHICLE IT'S BEING FITTED TO**

Any questions or information required in relation to the below instructions please do not hesitate to contact Brown Davis head office or one of our distributors.

Phone: +61 (3) 9762 8722
Email: info@browndavis.com.au

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SETUP FOR AUXILIARY TANK

1. Remove plastic trim from inside the rear right hand wheel arch
 - The rear wheel could be removed to allow easier fitment access.



2. Remove plastic lining from inside the spare wheel well.



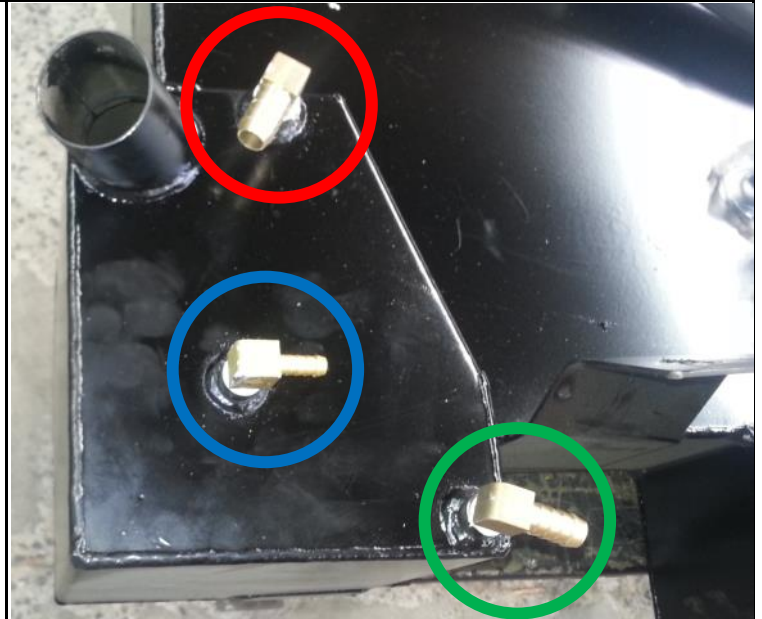
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SETUP OF AUXILIARY TANK

3. Install brass fittings with thread sealant, teflon tape or the likes.

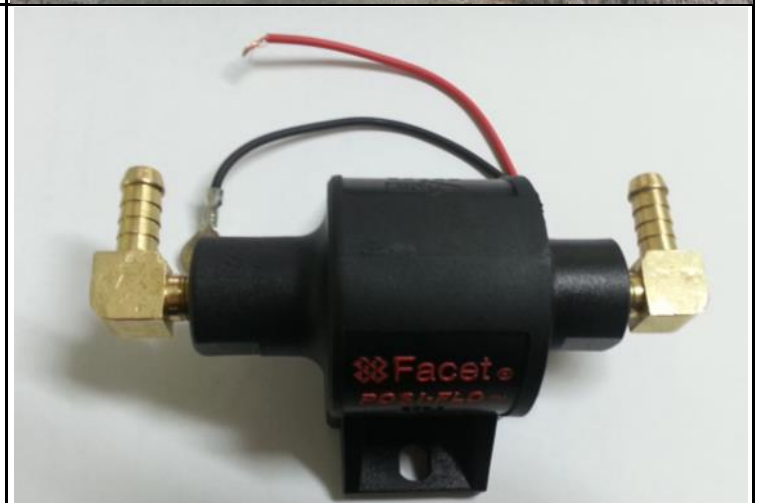
- **FUEL PICK UP – 5/16" x 1/4" BSP ELBOW** Circled in blue
- **BRASS FITTING-ELBOW- 5/8" x 3/8" BSP** Circled in red
- **BRASS FITTING-ELBOW– 1/2" x 1/4" BSP** Circled in green



4. Install the **BRASS FITTING-TAIL BARB– 1/2" x 1/4" BSP** in remaining socket, **Circled in red.**



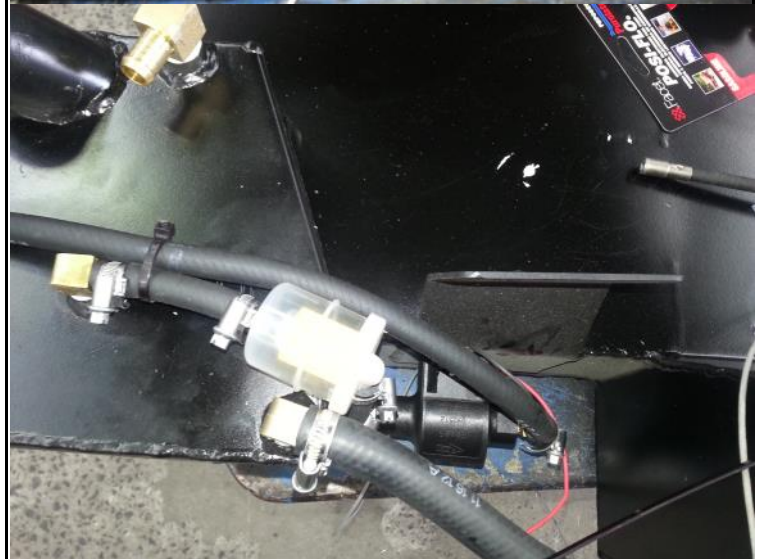
5. Using thread sealant install the 2 **BRASS FITTING-ELBOW– 1/8" x 5/16" BSP** to the **FUEL PUMP – POSI-FLO** so the barbed tube runs parallel with the base plate



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6. Using the **HOSE – FUEL AND EMISSION - 8mm** and hose clamps connect the **FUEL FILTER – INLINE – 90 – 8mm** and the **FUEL PUMP – POSI-FLO** *as shown in photo**.
 - Mount the setup onto the bolt attached to the side of the tank bracket *as shown in photo**.
 - Then connect the hose off the filter to the **FUEL PICK UP – 5/16" x 1/4" BSP ELBOW** (fitted in step 5).
 - Connect remaining **HOSE – FUEL AND EMISSION - 8mm** to the other side of the pump.



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7. Run the **HOSE – TMP - 12.5mm** hose between the **BRASS FITTING-ELBOW– 1/2" x 1/4" BSP** Circling in green (installed in step 5) and the **BRASS FITTING-TAIL BARB– 1/2" x 1/4"** (installed in step 6)



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INSTALLATION OF AUXILIARY TANK

8. Using a lifting device, jack the tank into place.
- Connect the earth wire before tank is in final position.



9. Line up captive threads at front left hand corner of tank.
- Fit **SET SCREW – HEX – M8 x 25mm – PLATED 8.8** into captives with the supplied panel and shake-proof washers
- ⇒ **NOTE:** some models do not have captives in chassis, 2x **SET SCREW – HEX – M8 x 25mm – ON WIRE** are supplied for this purpose.
- Feed the bolts on wire so the threads exit the existing holes then use the supplied panel, shake-proof washers and nuts and tighten.



10. Standing at the rear of vehicle level the tank to the vehicle floor
- Drill from inside the vehicle out with a pilot hole, to ensure positioning through bracket is correct.
 - Then drill the hole out to suit a M10 bolt



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11. Using the supplied **SET SCREW – HEX – M10 x 25mm – PLATED 8.8**, Panel and Shakeproof Washers, secure the rear of tank in place.

- Tighten nut then double nut to ensure bolt will not come loose.



12. Drill through remaining front bracket.

- Secure using the last **SET SCREW – HEX – M10 x 25mm – PLATED 8.8**, Panel and Shakeproof Washers, secure the rear of tank in place
- Tighten nut then double nut to ensure bolt will not come loose.



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WIRING

13. Locate somewhere on the dash to mount the **FUEL GAUGE/SWITCH – CP 309GS LED DASH UNIT**. **photo is for reference only**
- Drill a 20mm (approx.) to install.

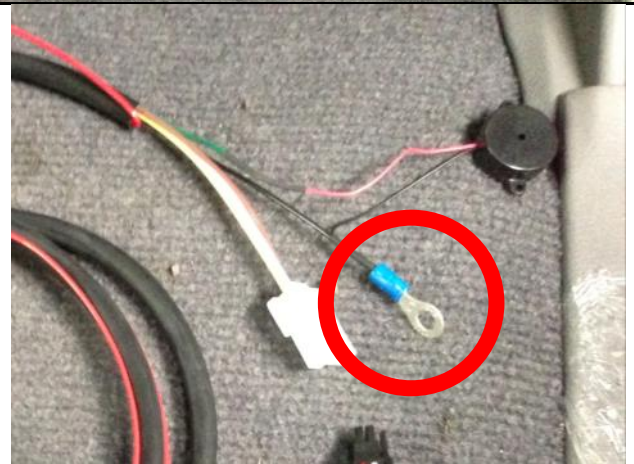


14. Locate 12 volt ignition wire

15. Connect the single red wire from the **LOOM WITH BUZZER** to the 12 volt ignition wire using the supplied SCOTCH LOCK or by soldering.



16. Stick the **BUZZER – PEEL – CP 5** behind the driver side kick panel or dash.
- Earth the ring (circled in photo) by fastening it to a metal surface.



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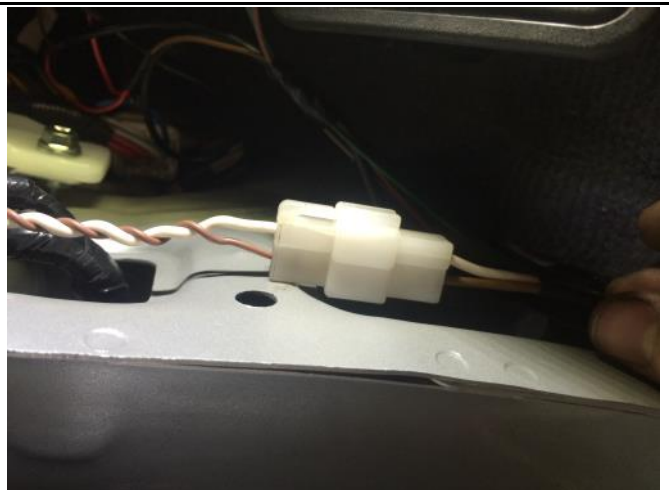
17. Connect the plugs from the **FUEL GUAGE/SWITCH – CP 309GS LED DASH UNIT** to the **RELAY/BUZZER – PEEL – CP 5**.



18. Run the **WIRE – TWIN CORE – 3.0mm – BROWN/WHITE—WITH PLUG** from the dash to the tank location, ensuring the wire is safe. Feed the wire through an existing loom or grommet.

- The end with the plug should be in the vehicles cab at the dash.
- Brown Davis recommends to follow existing wiring where possible or other wise, follow fuel lines or air conditioning lines.

19. Connect the white plugs from both the **LOOM WITH BUZZER** and the **WIRE – TWIN CORE – 3.0mm – BROWN/WHITE—WITH PLUG**.



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20. Connect the **CRIMP FITTING – JOINER 3mm - RED** to the red wire on the **FUEL PUMP – POSI-FLO**.
- Join the white wire to the opposite end of the **CRIMP FITTING – JOINER 3mm - RED**.
 - NOTE: The white wire should be trimmed first to avoid excess wire. Keep off cut wire for later step.

21. Attach the **CRIMP FITTING – SPADE FEMALE 6mm - INSULATED - RED** to the brown wire so it can be plugged to the center plug on the **SENDER UNIT - VDO 220-004** (circled in photo) that is fitted to the tank, once tank is fitted.
- NOTE: The brown wire should be trimmed first to avoid excess wire.



22. The sender unit must also be earthed.
- Using the white off cut wire connect the **CRIMP FITTING - RING 5MM - RED** to one end and the **CRIMP FITTING – SPADE FEMALE 4mm - RED** to the other.
 - Plug the **CRIMP FITTING – SPADE FEMALE 4mm - RED** to the **SENDER UNIT - VDO 220-004** (circled in photo).
 - Connect the **CRIMP FITTING - RING 5MM - RED** to the chassis.



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INSTALLATION OF TWIN FILLER

23. Remove standard filler assembly from rear right hand side wheel arch.
 - Ensure that fuel level is low enough that fuel will not leak from filler hose.



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24. Cut the filler tube down using photos as a guide.

- De-bur the cut tube end.



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25. Refit the cut filler to vehicle.

- Using supplied **HOSE – FILLER – 35mm**, **HOSE – FILLER – 48mm** and hose clamps connect the **FILLER TUBE— WITH REDUCER** to the modified standard filler pipe.
- Fit the **TWIN FILLER** supplied using the standard bolts with the supplied washers so it lines up with the **FILLER TUBE— WITH REDUCER**



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26. Using the **HOSE – TMP – 16mm** and hose clamps connect both the standard tank fast fill breather and the auxiliary tank filler (**BRASS FITTING-ELBOW- 5/8" x 3/8" BSP Circled in red** next to the filler).



27. Connect the **HOSE – FUEL AND EMISSION - 8mm** that is connected to the pump to the smallest pipe on the **TWIN FILLER**.



28. Using the remaining **HOSE – FILLER – 48mm** and hose clamps connect the **FILLER TUBE** between the **TWIN FILLER** and the auxiliary tank



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29. Remove valve from the standard filler assembly and connect to supplied **HOSE – TMP – 6mm.**
- Connect hose with hose clamps to the remaining pipe of the standard fuel system (circled in photo)
 - Run the valve to the highest point possible on the TWIN FILLER and attach with cable tie



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30. Install the **TANK BRACKET—WHEEL ARCH PROTECTION PLATE** using a standard bolt and the 2 self drilling self tapping screws supplied .



31. Put vehicle back together.

32. Double check all fuel line clamps and security of fuel lines. Fill tank and double check all fuel system for leaks. Road test and check for rattlers & squeaks.



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