

Brown Davis Automotive Pty. Ltd.
 ABN: 72 657 573 544

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HJ/HZJ/J 78 TOYOTA LANDCRUISER TROOP CARRIER – 170lt REPLACEMENT TANK LONG RANGE FUEL TANK PARTS LIST AND FITTING INSTRUCTIONS PART NUMBER: TL78R1

Item #	Description	Quantity	Part No.	P	C
1	TANK—REPLACEMENT	1	TL78R1	-	-
2	DRAIN PLUG—MAGNETIC—M14 (FITTED TO THE TANK)	1	DP-M14	-	-
3	HOSE – FUEL & EMISSIONS - 8mm	500 mm			
4	HOSE – FUEL & EMISSIONS - 12mm	400mm			
5	HOSE – FILLER - 51mm	165mm			
6	HOSE CLAMP – STAINLESS – 8-16mm	2			
7	HOSE CLAMP – STAINLESS - 12-22mm	2			
8	HOSE CLAMP – STAINLESS - 40-60mm	2			
9	FUEL PICK UP – 3/8" x 1/4" BSP ELBOW	1			
10	BRASS – ELBOW - 3/8" x 1/4" BSP	1			
11	BRASS – ELBOW - 5/8" x 1/4" BSP	1			
12	BRASS – PLUG - 1/4" BSP	2			
13	T-PIECE – NYLON BARBED - 1/2" x 1/4"	1			
14	SET SCREW – HEX – M10 x 30mm – PLATED 8.8	3			
15	NUT – STANDARD PLATED – M10	6			
16	WASHER – SHAKEPROOF INTERNAL PLATED – M10	3			
17	WASHER – FLAT PLATED – M10	3			
18	WASHER – SPRING PLATED – M8	6			
19	SET SCREW – PAN HEAD – M4 x 10mm – PLATED 8.8	5			
20	WASHER – SPRING PLATED – M4	5			
21	WASHER – FLAT PLATED – M4	5			
22	C-CLAMP EXHAUST – 8mm THREAD - C8 2"	3			
23	FLOOR STRENGTHENING STRIP 3mm – SINGLE HOLE 10mm – 25 x 80mm	3	FS-10-025080		
24	WARRANTY INFORMATION SHEET	1			
25	BROWN DAVIS AUTOMOTIVE STICKER	1			

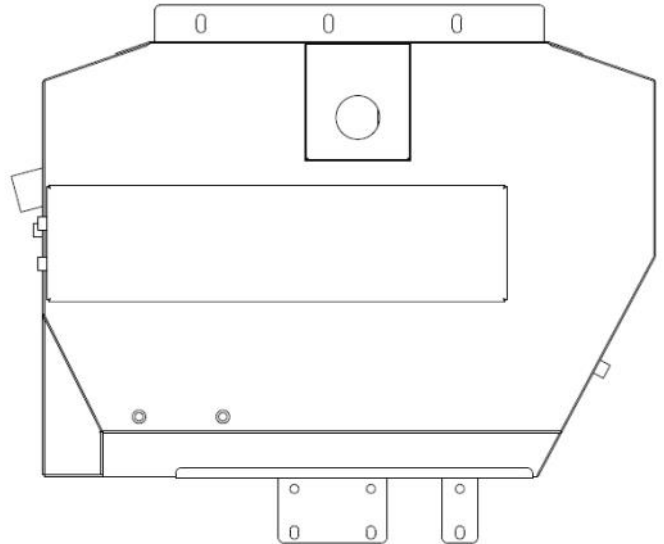
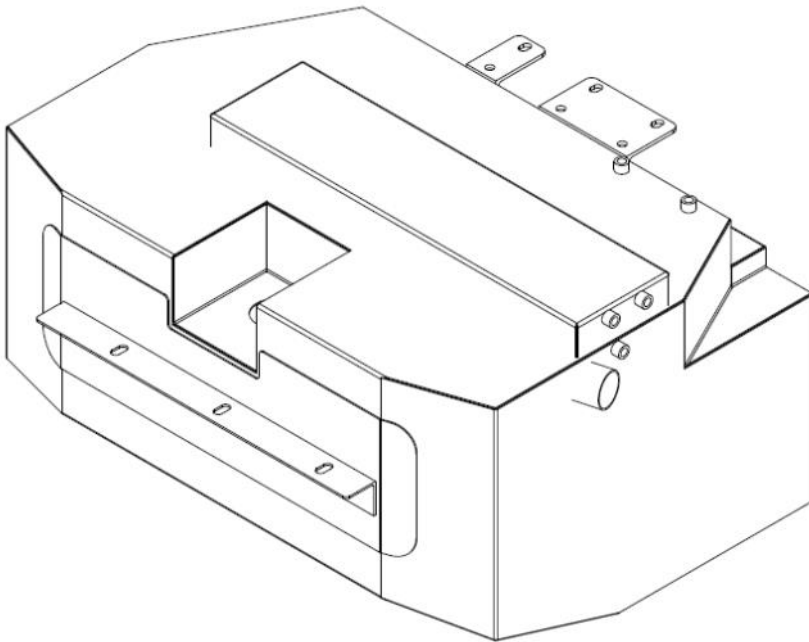
	STAFF MEMBERS INITIALS	DATE
KIT PACKED BY		
KIT CHECKED BY		



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**PART NUMBER: TL78R1
170lt REPLACEMENT TANK
LONG RANGE FUEL TANK PARTS LIST AND FITTING INSTRUCTIONS**



WARNING:

THIS FUEL TANK IS HEAVY. DO NOT ATTEMPT TO LIFT THIS FUEL TANK WITHOUT APPROPRIATE ASSISTANCE OR SERIOUS INJURY MAY RESULT



WARNING:

ENSURE A FIRE EXTINGUISHER IS AVAILABLE WHILST WORKING NEAR EXPOSED FUEL



-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.

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REMOVAL STANDARD OF STANDARD TANK

<p>1. Drain the standard tank.</p>	
<p>2. Remove the driver side rear wheel arch guard.</p> <ul style="list-style-type: none"> • Disconnect pick up and return fuel hoses from standard tank. • Disconnect the filler and breather hoses from the tank 	
<p>3. Support the tank using a lifting device.</p> <ul style="list-style-type: none"> • Unbolt the tank straps. 	
<p>4. Lower tank slightly.</p> <ul style="list-style-type: none"> • Reach hand over tank and disconnect the wiring loom from the sender unit. 	
<p>5. Remove the tank and place on the ground or a bench.</p>	

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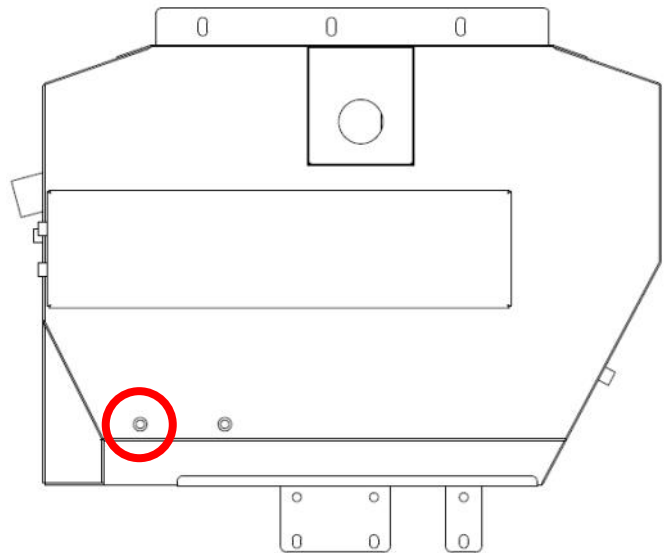
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SETUP OF REPLACEMENT TANK

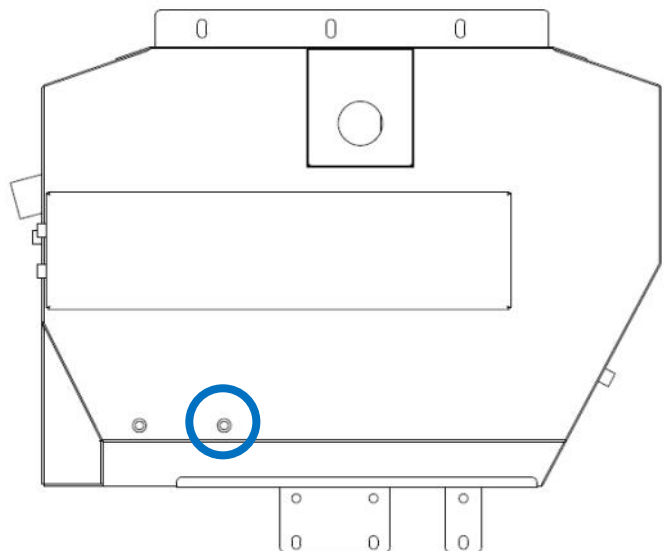
6. Remove the fuel gauge sender unit from this standard tank.
- Using supplied screws install sender into the Replacement tank.
- ⇒ NOTE: Be sure to check the orientation so the float arm doesn't hit a baffle inside the tank.



7. Cut the **FUEL PICK UP – 3/8" x 1/4" BSP ELBOW** to size.
- ⇒ NOTE: When the pick up is screwed into socket, it sits 1mm off the bottom of the tank.
- Using Teflon tape, thread sealant or the likes, install it into socket circled.



8. Using Teflon tape, thread sealant or the likes, install **BRASS – ELBOW - 5/16" x 1/4" BSP** to the circled socket.

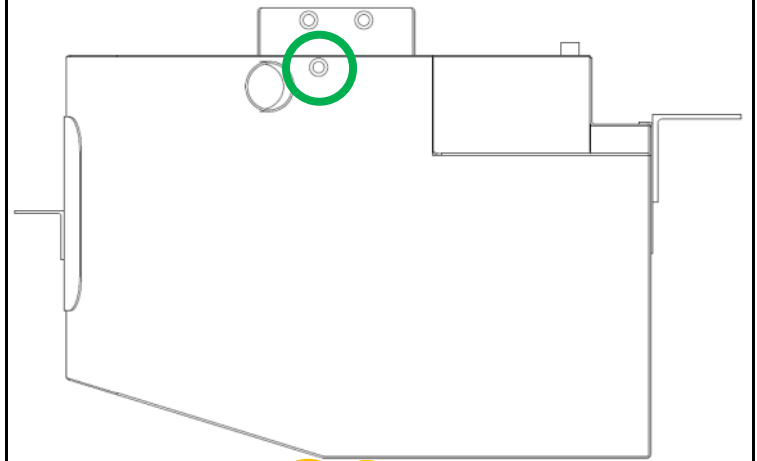


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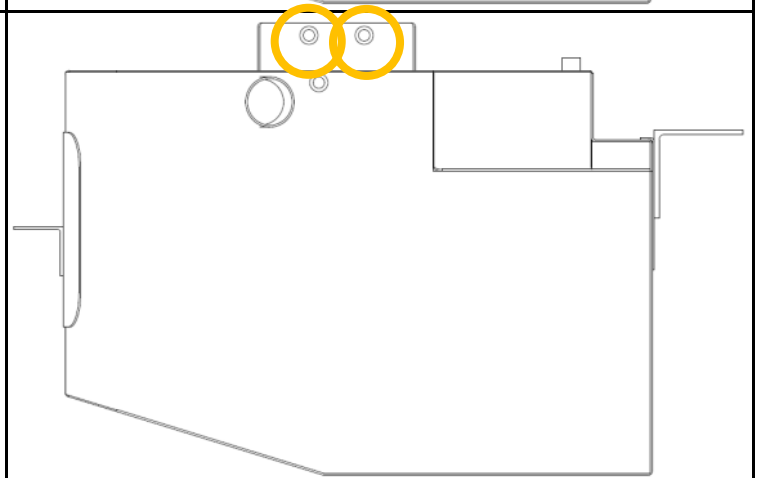
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9. Using Teflon tape, thread sealant or the likes, fit the **BRASS – TAIL BARB - 1/2" x 1/4" BSP**



10. Plug the sockets with **BRASS – PLUG - 1/4" BSP** into the two **sockets circled orange**.



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SETUP OF CAR

11. Remove the straps and the two cross-members that held the standard tank.



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INSTALLATION OF REPLACEMENT TANK

12. Using lifting device, jack the replacement tank into position.



13. Connect the wiring to the sender unit.

14. Sit the **3 C-CLAMP EXHAUST – 8mm THREAD - C8 2"** over the front cross-member and with the saddles in place feed the threads into the tank brackets.

- Screw the nuts on finger tight.




16. Drill the rear bracket holes to suit the **SET SCREW – HEX – M10 x 30mm – PLATED 8.8** supplied.

- Place the 3 **FLOOR STRENGTHENING STRIP 3mm – SINGLE HOLE 10mm – 25 x 80mm** on the cross-member in line with the holes and feed the **SET SCREW – HEX – M10 x 30mm – PLATED 8.8** through with washers.
- Use the spring washers and nuts to tighten the tank in place.



INSTALLATION OF REPLACEMENT TANK

<p>17. Tighten the rear bracket and the 3 U bolts.</p>	
<p>18. Reach over the tank and using the HOSE – FUEL & EMISSIONS - 12mm and hoses clamps, connect the Fuel pick up line onto the FUEL PICK UP – 3/8" x 1/4" BSP ELBOW (installed in step 7)</p> <ul style="list-style-type: none"> Using the HOSE – FUEL & EMISSIONS - 8mm connect the Fuel Return onto the BRASS – ELBOW - 5/16" x 1/4" BSP (installed in step 8) <p>⇒ NOTE: Insure the hoses connect to the correct fittings.</p> <p>⇒ NOTE: The hoses will need to be cut down to size.</p>	
<p>19. Connect the filler tube and fast fill breather tube using the standard hoses.</p> <p>⇒ TIP: Soak the hoses in boiling water to make the fitting easier.</p>	
<p>20. Double check all fuel line clamps and security of fuel lines. Fill tank and check for leaks. Road test and check for rattlers & squeaks. Re-check for fuel leaks.</p> <ul style="list-style-type: none"> On some diesel vehicles it is necessary to bleed the fuel system after such a tank installation (refer manufacturers handbook). Confirm the fuel gauge is reading. 	