



Brown Davis Automotive Pty. Ltd.

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TL60R1

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Last edited: 1/09/2010

Fuel Tank Kit List and Installation Instructions

TANK P/N: TL60R1

HJ/FJ60/61/62 LANDCRUISER
175ltr REPLACEMENT TANK

Item	Description	Quantity	Part number	P	C
1	TANK – REPLACEMENT	1	TL60R1		
2	HOSE – TMP - 6mm	2.8m			
3	HOSE – FUEL AND EMISSION - 8mm	0.5m			
4	HOSE CLAMP – STAINLESS - 8-16mm	8			
5	FUEL PICK UP - 5/16" x 1/4" BSP ELBOW - 335mm	1			
6	BRASS – ELBOW - 1/4" x 1/4" BSP	3			
7	BRASS – TAIL BARB - 1/4" x 1/4" BSP	1			
8	BRASS – TAIL BARB - 3/8" x 1/4" BSP	1			
9	BRASS – TAIL BARB - 5/8" x 1/4" BSP	1			
10	BRASS – PLUG - 1/4" BSP	1			
11	DRAIN PLUG – MAGNETIC – M14 (fitted to tank)	1	DP-M14		
12	WARRANTY CARD & INFORMATION SHEET	1			
13	BROWN DAVIS AUTOMOTIVE STICKER	1			

Packed by (P): _____

Checked by (C): _____

Date Packed: ____ / ____ / ____

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All Brown Davis Automotive fuel tank kits are manufactured to Australian Standards and the Australian Design Rules where applicable and carry a full **3 Year Warranty**. Construction in 2.0 mm (14 gauge) cold rolled, aluminium coated, steel ensures maximum strength and durability and minimum corrosion susceptibility. This gauge of steel is sufficiently impact resistant that an additional tank guard is not necessary (most standard tank guards are thinner than 1.5 mm).

All tanks are M.I.G. (Metal Inert Gas) welded to assure the strongest possible seams and are baffled to prevent fuel surge. They are then pressure tested using two different techniques to eliminate the possibility of leaks. Drain plugs are fitted horizontally to prevent them being damaged if the tank is scraped over rocks and are magnetic to collect any metallic dirt that may enter your fuel system.

In all cases, Brown Davis Automotive fuel tanks are designed with severe off road use in mind and will not compromise ground clearance, entry, exit or ramp over angles.

REPLACEMENT TANKS This tank is a replacement for the standard tank and fits in the same location. The standard filler is retained as is the fuel gauge sender unit which still works in the same manner except it takes longer to reach empty. Rearrangement of the exhaust system **IS NOT** necessary with this fitment.

Fitting Instructions

- 1 Remove the spare wheel from under the rear of the vehicle then unbolt and remove the spare wheel wind up mechanism and chassis crossmember.
- 2 Drain all the fuel from the standard tank. Remove the filler neck cover plate and disconnect the filler hose, the fast fill breather and the other 4 vent hoses, from their fittings on the body. Do not remove these hoses at their tank end at this stage. Disconnect the fuel pick up hose and return hose from the steel lines near the front driver's side corner of the standard tank. As with the filler hoses do not disconnect these hoses from their respective tank fittings at this stage.
- 3 Support the standard tank up under the rear of the car. Unbolt the tank straps and carefully lower it, until you can access the fuel gauge wiring and unplug it. Then lower tank to the ground.
- 4 Check to confirm that the Brown Davis tank is perfectly clean inside before assembly and installation, by rinsing out with petrol, as should always be done with any new component installed into the fuel system of any vehicle. Remove the fuel gauge sender unit from this

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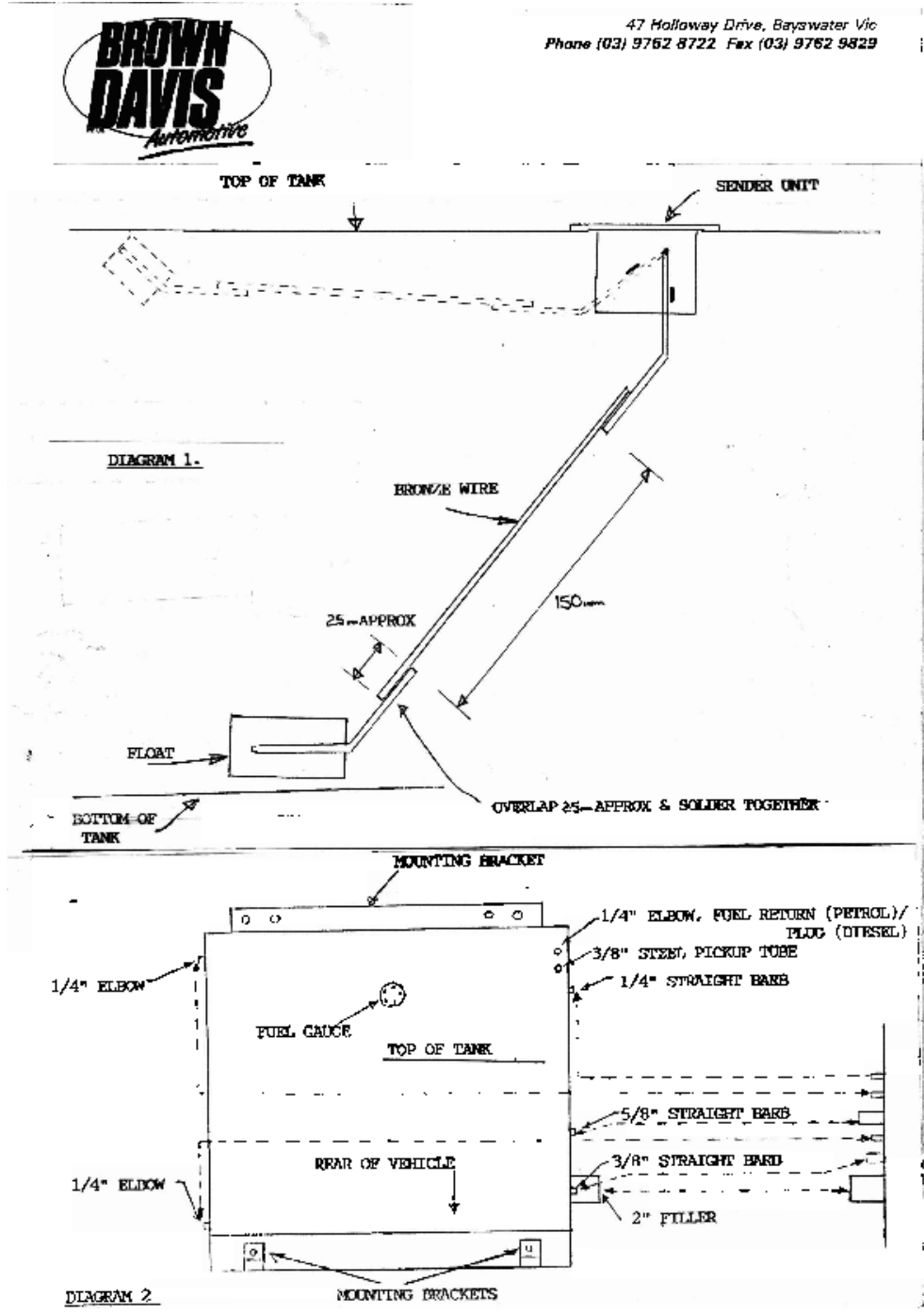
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- standard tank. Modify this unit (**Refer diagram 1**) and then refit the fuel gauge sender unit into the new long range tank using the original screws and gasket.
- 5 Install all brass fittings into the new replacement long range fuel tank using teflon tape or the like on all threads. (**Refer diagram 2**)
 - 6 Transfer the filler, fast fill and vent hoses from the standard tank to the new long range tank. Cut the 6mm tmp fuel hose into two 1.3m lengths, and connect these to the two 1/4" elbow fittings on the passenger side of the new long range tank. Also transfer the rubber fuel pickup and (if applicable) return hose from the standard tank onto the fittings on the top front drivers side corner of the new tank (**Refer diagram 2**).
 - 7 Lift the new tank into position at an angle up on the passenger side to allow the filler and fast fill hoses to be fed over the chassis. Remember to reconnect the wiring to the fuel gauge sender unit as one lifts the tank into position. Hold in place with a jack or similar, and then refit 4 bolts removed from the standard tank in the front of the tank loosely, then start the 2 longer rear bolts into their captive threads. Tighten all mounting bolts.
 - 8 Connect all hoses to their original positions noting correct fitment of the hoses onto the five pipes under the rear quarter panel. Refit the cover plate over the filler area.
 - 9 Confirm the drain plug has been sealed into the tank and fill with the fuel drained in step 2. Replace the fuel filter under the bonnet after the first 1000km or 2 to 3 tank fills of the new tank and double check mounting bolts. On some diesel vehicles it is necessary to bleed the fuel system after such a tank installation (refer manufacturers handbook).





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OPERATION INFORMATION

The operation of your new Brown Davis Automotive long range fuel tank is little different from the original tank.

Simply fill the long range/auxiliary tank exactly as with a standard tank. (It just takes more fuel to fill, and a dual filler will be used for filling auxiliary tanks).

The fuel gauge on the vehicles dash will read as with the standard tank. It should read with the same degree of accuracy as it did with the standard tank other than staying on full for most of the new increase in capacity. For about 20% more than the standard tank held the gauge will now read in proportion from full down to empty. Auxiliary tanks come with a separate tank gauge to show separate fuel level to main tank.

The low fuel light will still function as normal with it coming "on" at about 20% more fuel volume left to go than it used to, to warn you of low fuel.

Remember your new long range tank(s) are carrying a lot more fuel than standard. Remain aware of how much fuel has been used during the initial period of the gauge remaining on full for future reference in estimating fuel usage and consumption.

Maintenance and service of your new Brown Davis Automotive long range fuel tank other than the recommended 1000km check and filter change should be in align with the normal vehicle Manufactures service schedule and guidelines. Remember the long range tank has a magnetic drain plug that the standard tank did not. With the fuel level low the drain plug can be removed and cleaned to remove any metal fragments introduced from the filler bowser scraping on the filler tube when filling or particles and rust flakes from jerry cans used on long trips. This facility is supplied to protect the in-tank fuel pumps fitted to most modern vehicle fuel tanks.

Finally make sure the warranty card is filled out completely and returned to Brown Davis Automotive and that the warranty information is read and understood. If there are any queries about this or any of the above information please contact us at Brown Davis at the attached address or phone and fax numbers for assistance.

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