



**Brown Davis Automotive Pty. Ltd.**

ABN: 72 657 573 544

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**TL76R1**

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Last edited: 1/09/2010

## **Fuel Tank Part List and Installation Instructions**

**TANK P/N: TL76R1**

76 SERIES LANDCRUISER WAGON  
175ltr REPLACEMENT (REAR) TANK

Item	Description	Quantity	Part number	P	C
1	TANK – REPLACEMENT	1	TL76R1		
2	HOSE – FUEL AND EMISSION - 8mm	0.5m			
3	HOSE – FUEL AND EMISSION - 12.5mm	0.5m			
4	HOSE CLAMP – STAINLESS - 8-16mm	2			
5	HOSE CLAMP – STAINLESS - 12-25mm	2			
6	DRAIN PLUG – MAGNETIC – M14 (fitted to tank)	1	DP-M14		
7	FUEL PICK UP - ½" x 3/8" BSP ELBOW	1			
8	BRASS – ELBOW - 1/4" x 1/4" BSP	1			
9	BRASS – ELBOW - 3/8" x 3/8" BSP	1			
10	BOLT – HEX – M10 x 65mm – PLATED 8.8	3			
11	SET SCREW – HEX – M10 x 30mm – PLATED 8.8	8			
12	WASHER – PANEL PLATED – M10	8			
13	WASHER – SHAKEPROOF INTERNAL PLATED – M10	11			
14	WASHER – FLAT PLATED – M10	14			
15	NUT – STANDARD PLATED – M10	22			
16	WASHER – FLAT PLATED – M8	6			
17	WASHER – SHAKEPROOF INTERNAL PLATED – M8	6			
18	C-CLAMP EXHAUST – 8mm THREAD - C8 2"	3			
19	CROSSMEMBER	1	CM-TL76R1		
20	WARRANTY CARD & INFORMATION SHEET	1			
21	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).

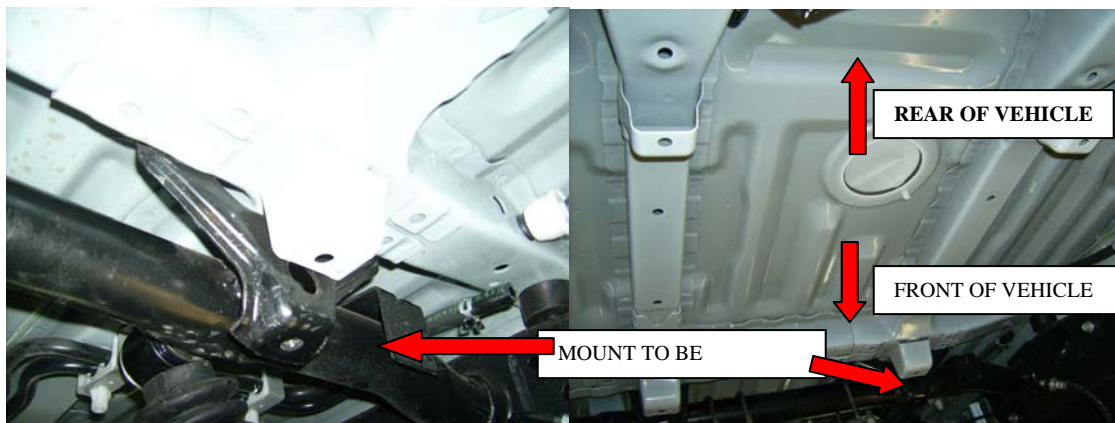
All tanks are M.I.G. (Metal Inert Gas) welded to assure the strongest possible seams and are baffled to prevent fuel surge. They are then pressure tested using two different techniques to eliminate the possibility of leaks. Drain plugs are fitted horizontally to prevent them being damaged if the tank 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**

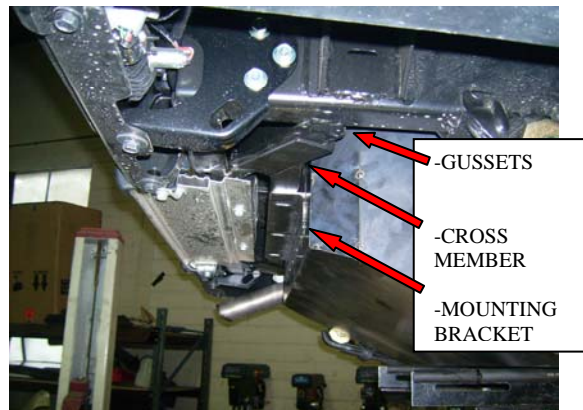
1. DISCONNECT HOSES AND FUEL GUAGE SENDER WIRING. REMOVE THE STANDARD TANK.
2. UNBOLT AND REMOVE THE TWO BLACK TANK MOUNTING BRACKETS.THE BRACKETS ARE LOCATED NEAR THE ROUND CROSSMEMBER WHERE THE FRONT OF THE TANK WILL MOUNT. (SEE PICTURE BELOW)



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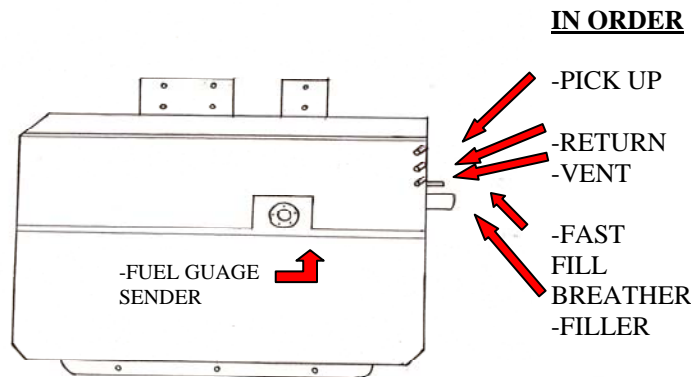
3. FIT THE CROSS MEMBER SUPPLIED (CM-TL76R1) TO THE REAR OF THE VEHICLE. THE CROSS MEMBER FITS BETWEEN THE CHASSIS RAILS AT THE REAR AND BOLTS TO THE GUSSETS BETWEEN THE REAR CROSS MEMBER AND THE CHASSIS RAILS. (SEE PICTURE BELOW)



**PICTURE  
SHOWS RAW  
TANK WITH  
MOUNTING  
BRACKET.**

**MOUNTING  
BRACKET IS  
SITTING UNDER  
THE REAR  
CROSS  
MEMBER**

4. INSTALL ALL THE BRASS FITTINGS WITH THE BARBS FACING OUTWARDS. INSTALL THE FUEL GAUGE SENDER AS SHOWN ON THE DIAGRAM BELOW. DO THIS ALL WHILE THE TANK IS ON THE GROUND



5. LIFT TANK INTO POSITION USING AN APPROPRIATE LIFTING DEVICE.



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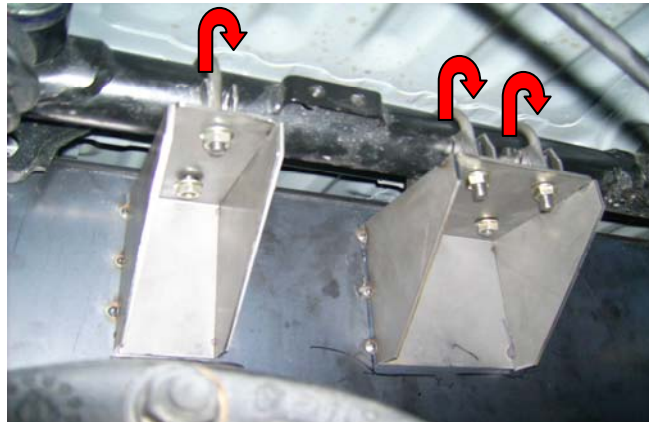
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6. FIT U-BOLTS OVER THE ROUND FRONT CROSS MEMBER AND ATTATCH TO THE CORRESPONDING TANK MOUNTING BRACKETS.



PICTURE SHOWS U  
BOLTS FITTED  
OVER THE FRONT  
ROUND CROSS  
MEMBER.

7. DRILL THREE HOLES IN THE REAR CROSSMEMBER (CM-TL76R1). DRILL USING THE PUNCHED HOLES IN THE TANKS MOUNTING BRACKET AS A GUIDE AND ATTATCH THE TANK TO THE CROSSMEMBER USING THE HARDWARE SUPPLIED.
8. RECONNECT THE STANDARD HOSES AND THE FUEL GUAGE SENDER WIRING LOOM TO THE CORRESPONDING POINTS ON THE TANK. (SEE PREVIOUS DIAGRAM)
9. RE-CHECK ALL BOLTS ARE TIGHT AND HOSE CLAMPS ARE FIRM.
10. REFILL TANK.
11. ROAD TEST.



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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.**