



Brown Davis Automotive Pty. Ltd.

ABN: 72 657 573 544

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**Part No. TL200R1**

**TOYOTA LANDCRUISER 200 SERIES – 160lt REPLACEMENT  
LONG RANGE FUEL TANK PARTS LIST AND FITTING INSTRUCTIONS**

Item #	Description	Quantity	Part No.	P	C
1	Long Range Fuel Tank	1	TL200R1	-	-
2	Drain Plug- Magnetic (M14- fitted in tank)	1	DP-M14	-	-
3	HOSE- FUEL AND EMISSION- 8mm	600mm			
4	HOSE – TMP – 16mm	300mm			
5	BRASS- ELBOW- 5/8" X 1/4" BSP	1			
6	BRASS- ELBOW- 5/8" X 3/8" BSP	1			
7	BRASS- TAILBARB- 1/4" X 1/4" BSP	2			
8	PICK UP TUBE- ELBOW – 5/16" X 1/4" BSP	1			
9	WASHER- PANEL PLATED- M8	2			
10	SET SCREW- HEX- M10 X 30mm- ON WIRE- PLATED 8.8	2			
11	BOLT- HEX- M10 X 30mm- PLATED 8.8	4			
12	NUT- STANDARD PLATED- M10	12			
13	WASHER- SHAKEPROOF INTERNAL PLATED- M10	6			
14	WASHER- PANEL PLATED- M10	10			
15	STEEL FUEL SENDER UNIT EXTENSION WIRE	400mm			
16	BLOCK OFF PIPE- 5/16" (REFER PHOTO BELOW)	1			
17	TANK BRACKET- A	1	TB-TL200R1-A		
18	TANK BRACKET- B	1	TB-TL200R1-B		
19	WARRANTY CARD AND INFORMATION SHEET	1			
20	BROWN DAVIS STICKER	1			

	STAFF MEMBERS INITIALS	DATE
KIT PACKED BY		
KIT CHECKED BY		

DATE LAST EDITED: 2/5/2015

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<p><b>WARNING:</b></p> <p><b>THIS FUEL TANK IS HEAVY. DO NOT ATTEMPT TO LIFT THIS FUEL TANK WITHOUT APPROPRIATE ASSISTANCE OR SERIOUS INJURY MAY RESULT</b></p>	
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<p><b>WARNING:</b></p> <p><b>ENSURE A FIRE EXTINGUISHER IS AVAILABLE WHILE WORKING NEAR EXPOSED FUEL</b></p>	
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**-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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<p>Step 1. Remove rear section of exhaust and muffler, along with rear spare wheel and support bracket.</p>	
<p>Step 2. Undo filler, fast fill and all lines entering standard tank. Make sure to keep order of lines, if necessary mark lines as you remove. Fuel gauge wiring will need to also be unplugged.</p>	 <p>The top photograph shows a close-up of a fuel filler neck assembly with several hoses and wires connected to it. The bottom photograph shows a wider view of the vehicle's undercarriage, focusing on the fuel tank area where various hoses and electrical wires are being disconnected from the tank.</p>

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<p>Step 3. Undo standard tank straps and lower tank using a suitable lifting device</p>	
<p>Step 4. once tanks out of vehicle remove sender and pick-up return</p>	

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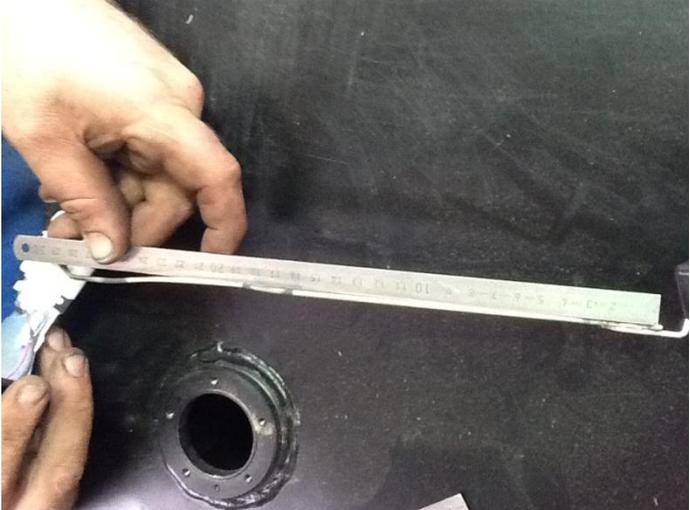


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<p>Step 5. Original sender will need to be extend to suit new long range fuel tank. Steel extension wire supplied to extend float (silver solder / Mig weld). Float is extended 350mm (approx) This should be checked on tank. Float should stop Approx 5-10mm before bottom of tank</p>	

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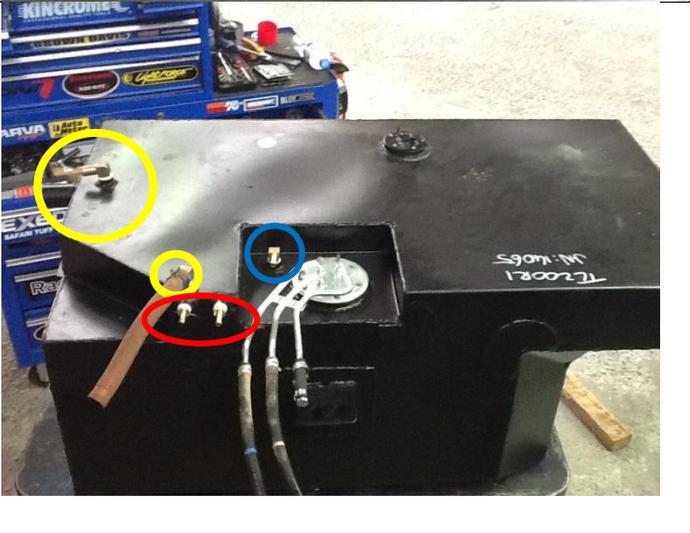
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<p>Step 6. Fit brass fitting to BD long range tank using thread sealant</p> <p><u>Yellow</u>- BRASS- ELBOW- 5/8" X 3/8" BSP (fast fill breather)</p> <p><u>Red</u>- BRASS- TAILBARB- 1/4" X 1/4" BSP (tank vents)</p> <p><u>Blue</u>- BD supplied pick-up</p> <p>Note: double check BD pick-up length. Bottom should be cut at 45* and just touching bottom</p>	

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**Step 7.**

Sender unit and pick-up return along with BD supplied pick-up needs to be installed in BD long range fuel tank. Hose will need to be connect to BD pick-up before lifting into place



**Step 8.**

Using supplied 5/16" block off pipe block off yellow pick-up in standard unit



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<p>Step 10. Fit tank brackets to chassis of vehicle.</p> <p>Note: Left and right hand side brackets</p>	
<p>Step 11. Tank can now be lifted up into place using a suitable lifting device. Gauge wiring should be plugged in as lifting into position.</p>	
<p>Step 12. Front bracket should be located with vehicle captives. These bolts should be done up finger tight</p>	

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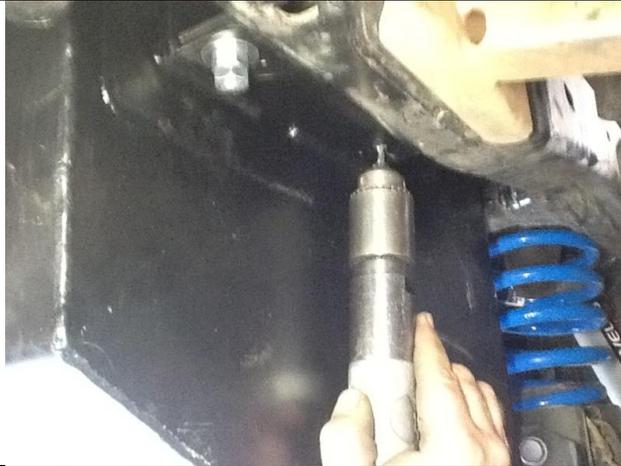
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Step 13. Holes for side brackets can now be drilled through tank brackets and supplied BD brackets on chassis.



Step 14.  
M10 X 30 bolts can now be used to bolt tank in place.  
The bolt heads on the left hand side should be on the bottom face of the tank bracket to allow clearance for the exhaust.



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Step 15.  
All tank plumbing can now be reconnected



Step 16. Re-fit exhaust being sure to check clearance to tank bracket. Some aftermarket exhaust may need to be slightly relocated.



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Step 17. Check all hardware is done up tight



**Long Range Fuel Tank Service Information:**

1000km after the fitment inspection of Long Range Tank should include.

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- check that all hose clamps are tight
- mounting bolts should be tightened
- remove tank magnetic drain plug and check for metal flakes or particles

On-going maintenance includes.

- change fuel filter according to vehicle manual
- remove tank magnetic drain plug and check for metal flakes or particles

Operation of Long Range Fuel Tank

**SECTION LM FUEL SYSTEM**

**CHECKLIST LM1 - FUEL TANK ALTERATION**

**CODE LM1**

**N/A= Not Applicable, Y= Yes, N= No**

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<b>1.</b>	<b>GENERAL</b>			
1.1	Are all fuel lines used suitable for the fuel and fuel system?		Y	N
1.2	Are all fuel lines securely fastened with clamps or clips?		Y	N
1.3	Has the circuit been checked for leaks and any leaks have been repaired?		Y	N
1.4	Are fuel lines at least 100mm from exhaust and any other dangerous ignition sources?		Y	N
1.5	Are all fuel lines well protected from possible road damage?		Y	N
1.6	Are lines adequately protected from chafing, road damage or crushing?		Y	N
1.7	Does the location of the tank meet the vehicles clearance requirements including departure angle?		Y	N
1.8	Are the fuel tank and components at least 100mm inboard of OEM permanent bodywork?		Y	N
1.9	Is adequate shielding provided from fuel tanks if ground clearance less than 200mm?		Y	N
1.10	Has the fuel tank installation been checked to ensure that no part of the fuel tank contacts the road should tire become deflated?		Y	
1.11	If a replacement tank is of a larger capacity (25% or more) than the original and uses the original mounting, has their strength been checked and shown to by a Signatory?		Y	N
1.12	Does the replacement fuel tank have no adverse affect on the controllability, handling and stability of the vehicle when road tested?		Y	N
1.13	Are the fuel filler inlet and cap located outside of the vehicle?		Y	N
1.14	Where the inlet is located inside the vehicle, is it not inside the passenger compartment and is the inlet separately sealed from the rest of the vehicle?		Y	N
1.15	Is the fuel tank and filler so arranged that any overflow or leakage of the fuel cannot accumulate nor contact the exhaust or electrical system?		Y	N
1.16	Are all apertures created to allow for the installation of the fuel tanks suitably sealed so as to prevent the entry of exhaust, road or petrol fumes into the cabin of the vehicle?		Y	N
<b>2.</b>	<b>ADDITIONAL REQUIREMENTS FOR VEHICLES FITTED WITH EMISSION CONTROL SYSTEMS</b>			
2.1	Are all of the fuel tank evaporative controls for ventilation of the tank installed and operational?		Y	N
2.2	If the replacement fuel tank has greater capacity then the largest optional fuel tank available for the vehicle, has an additional or larger canister of sufficient capacity been fitted to vehicles equipped with evaporative emission control systems?		Y	N
2.3	If the vehicle was originally quipped with an independent liquid/vapor separator has either an additional separator been fitted or that provision built into the new tank?		Y	N
<b>3.</b>	<b>WORKMANSHIP</b>			
3.1	Is all work including welding performed in accordance with recognized engineering standards?		Y	N
<b>4.</b>	<b>ADR COMPLIANCE</b>			
4.1	Does the converted vehicle continue to comply with applicable ADR's?		Y	N
<b>5</b>	<b>INSPECTION</b>			
5.1	Has an inspection been carried out on the installation and all modified components and found to be satisfactory?		Y	N
<b>6.</b>	<b>RECORDS</b>			

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6.1	Have complete records of the vehicle conversion/ modification details been retained in a manner suitable for auditing as requested by Registration Authority?		Y	N
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Note: If the answer to any question is **N (No)**, the modification cannot be approved under Code LM1.

CERTIFICATION DETAILS													
MAKE				MODEL				YEAR OF MAN					
VIN													
Chassis Number (If applicable)													
Brief Description of Modifications													
Vehicle Modified by													
Certificate Number (If applicable)													
Vehicle Certified By (Print)													
Signatory's Employer (if applicable)													
Signatory's Signature													
Tank Manufacture				BROWN DAVIS AUTOMOTIVE PTY. LTD.									
Tank Part Number				At top of fitting instructions									
Tank Serial Number				Found near tanks drain plug									

When completed please email a scanned copy to [info@browndavis.com.au](mailto:info@browndavis.com.au) or fax to +61 (3) 97628722.

The original copy should be left in the vehicles glove box. You should also keep a copy for your own records.