



LONG RANGE AUTOMOTIVE

Installation Instructions for TLC200RR-0815 Toyota Landcruiser UZJ200 / VDJ200 08/2015+ 170L Sub Replacement Tank

1. Remove the R/H wheel arch cover. Remove the spare wheel and the wheel carrier. Drain and remove the original tank and straps.
2. Using the Mounting bar for reference, drill out the matching holes in the chassis rail to 8.5mm and 10.5mm and bolt mounting bar in place using bolts with straps attached, washers and Nyloc nuts. The 5mm bar end packers are for the forward hole on both the left hand and right-hand side of the mounting bar.
3. Fit grommet and rollover valve to tank and attach 550mm length of 6mm fuel hose to this valve and point forward. Screw the P6 1/4 x 1/8 Elbow into the top of the tank and point forwards, fit the original 6mm line with the pink band to this elbow. Screw the P3 5/16 x 1/4 straight fitting into the front of the tank, this is the fuel pick up, use the 230mm length of 8mm hose to attach to the pickup. The two remaining P3 5/8 x 3/8 straight fittings are the fast fill vent fittings.
4. Modify the Sender unit by cutting the original metal frame 35mm from the sealing face and bolting the new Sender unit extension bracket in place with the M5 x 8mm Pan head screws and Nyloc nuts. Lengthen the sender unit wires by soldering and using Fuel resistant heat shrink tube. Transfer float from original float arm to the new float arm. Be careful with the retaining clip. You need to peen the end of the wire to keep the washer in place. The sender unit slides in place but requires the sender to be secured bending the two tabs over and using the M4 Screw and Nyloc as per **Fig 1 & 2**
5. Slip the M10 U bolts over the cross member and jack the tank into position. (Don't forget to connect the sender unit). Secure the front with M10 Nyloc nuts and washers and the rear with M12 Bolts Heavy duty washers and Nyloc nuts.
6. Connect the 6mm hose from the rollover valve to where the green 6mm line came from (This line goes into a valve that pushes into a grommet in the under body). Connect the Pink 6mm line to the remaining 6mm fitting and the 230mm length of 8mm hose to the pickup line. Connect original fast fill vent hoses and cut 35mm from the original fill hose. Check over all hoses and fittings. Replace wheel arch covers.



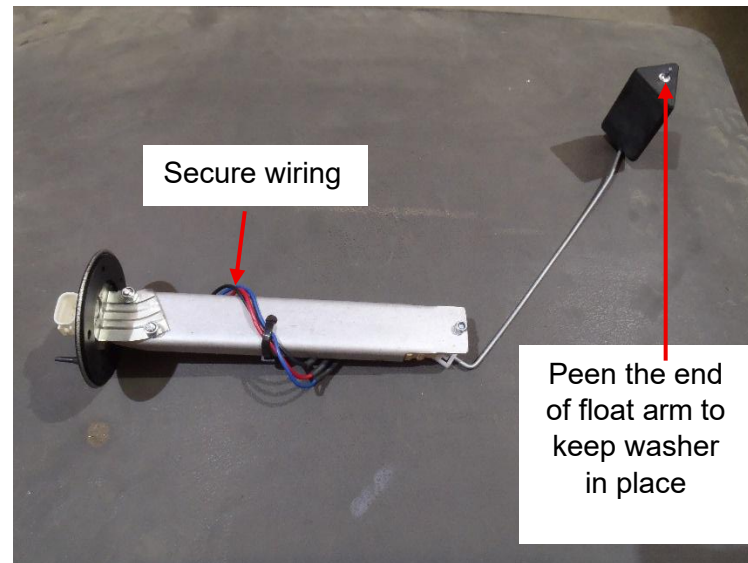
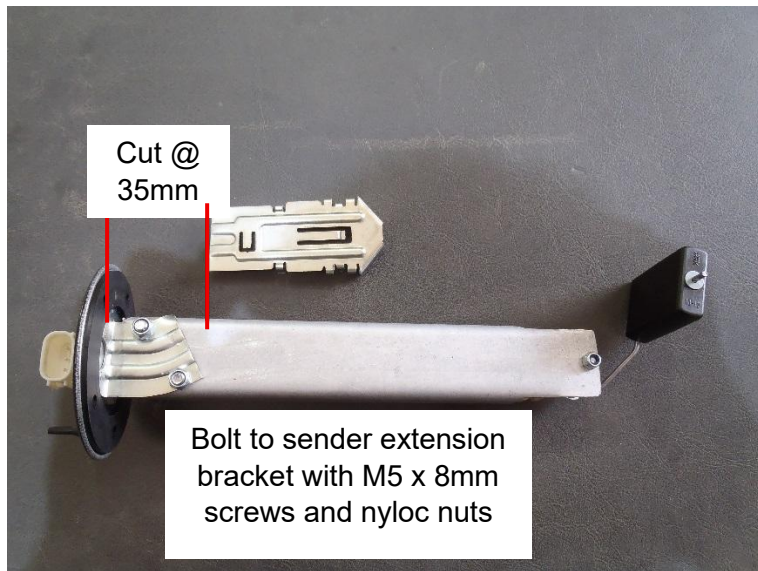
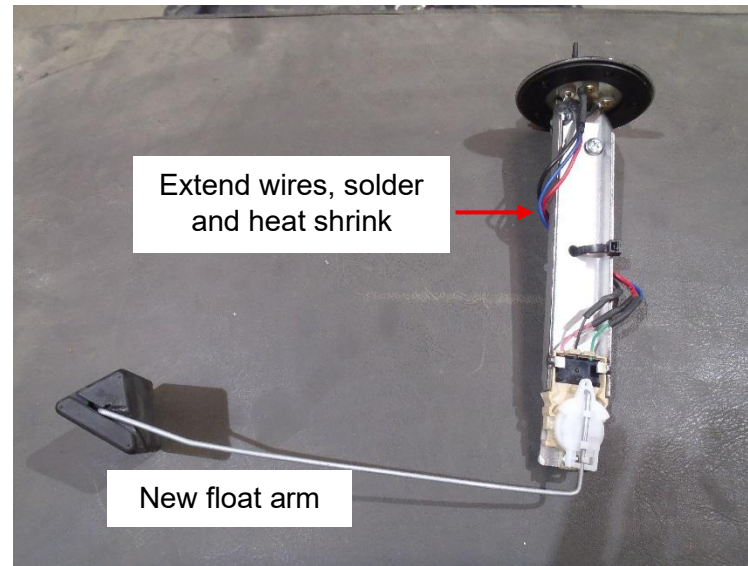
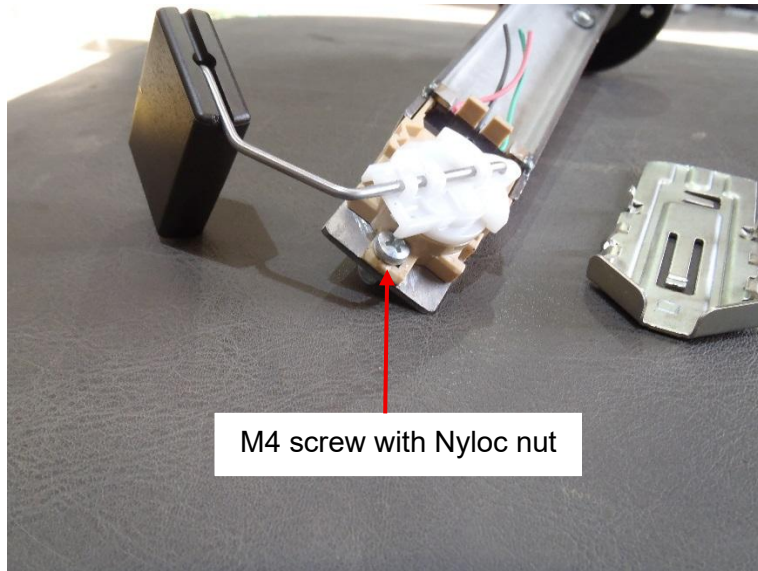
FITTING KIT CONTENTS - TLC200RR-0815

Brass:	Electrical:
○ 1 x P6 1/4 x 1/8 6mm Elbow ○ 1 x P3 5/16 x 1/4 8mm Straight ○ 2 x P3 5/8 x 3/8 16mm Straights	○ 1 x Red 2.5mm Single Core @ 150mm ○ 1 x Black 2.5mm Single Core @ 150mm ○ 1 x Green 2.5mm Single Core @ 150mm ○ 6 x Fuel Resistant Shrink Tube @ 30mm
Bolts / Nuts:	Misc Parts:
○ 1 x M4 x 8mm Screw ○ 1 x M4 Nyloc Nut ○ 2 x M5 Nyloc Nuts ○ 2 x M5 x 8mm Pan Head Screws ○ 2 x M8 x 20mm Washers ○ 2 x M8 Nyloc Nuts ○ 10 x M10 x 25mm Washers ○ 10 x M10 Nyloc Nuts ○ 4 x M12 Heavy Duty Washers ○ 2 x M12 x 30mm Bolts ○ 2 x M12 Nyloc Nuts	○ 1 x FV11 Roll Over Valve ○ 1 x LRA-FTG-2 Grommet ○ 1 x Rear Mounting Bar ○ 1 x Float Arm (08/2015+) ○ 1 x Sender Unit Extension Bracket (08/15+) ○ 2 x 5mm Bar End Packers (Left and Right) ○ 3 x M10 x 85mm U bolts @ 100mm ○ 2 x M10 x 30mm Bolt C/W 300mm Strap ○ 2 x M10 x 30mm Bolt C/W 150mm Strap ○ 2 x M8 x 30mm Bolt C/W 150mm Strap
Hose Clamps:	Hose:
	○ 1 x 6mm Fuel Hose @ 550mm ○ 1 x 8mm Fuel Hose @ 230mm
Pumps & Filters:	Cable Ties:
	○ 1 x 7" Cable Ties ○ 1 x 100mm Cable Ties
Sender:	3 Pages of Fitting Instructions Consisting of:
	○ 1 x Pages Fitting Instructions ○ 1 x Page Fitting Kit Contents ○ 1 x Page Sender Modification Reference Photos

Kit Packed By _____

Checked By _____

TLC200RR-0815 Sender Unit Modifications





LONG RANGE AUTOMOTIVE

TLC200RR-0815 170L Sub Tank Replacement Gauge & Transfer Pump System

The 200 series has a sender unit in each tank feeding into one fuel gauge.

When the 45L sub tank is changed to the LRA 170L tank and when the tanks are full this is represented by the top 1/3 of the fuel gauge and the 93L in the main tank is represented by empty to 2/3 full.

As you begin to drive, the factory Toyota jet transfer pump in the main 93L tank will transfer the fuel at the rate the engine is using it **from the 170L sub replacement into the main tank.**

Once the fuel gauge is showing between 1/2 and 2/3 full the 170L will be empty and you will have the 93L in the main tank to use with low fuel light and DTE operating as it would after the original sub tank was empty.

So it needs to use the 170L before the fuel gauge goes below 2/3.