Toyota Land Cruiser 80 Series 37 Gallon Replacement Tank Instructions

Product Information/Install Instructions for

Toyota Land Cruiser 80 Series Main Replacement Tank

Kit P/N TLC80FR-DA





NOTE: This product is NOT FOR SALE TO, OR USE BY, CALIFORNIA RESIDENTS. This product has not been approved, certified, rated or otherwise passed upon by any Federal or State regulatory agency

HARDWARE	HOSES & CLAMPS	MISC PARTS
2 x M10 Nyloc Nut	1 x 5/16" x 4" Long EFI In-Tank Fuel Hose	1 x 2.5mm Rod @ 4" Long
1 x M10 x Plain Nut	1 x 1/2" Hose Clamp	1 x Fuel Pump Extension Bracket 100mm x 30mm x 3mm
2 x M10 x 25mm Washer	1 x 1-1/2" Hose Clamp	1 x Pair Fuel Tank Straps (front & rear)
2 x M8 x 85mm Bolt		2 x 50mm x 25mm Strap Reinforcing
3 x M8 Nyloc Nut		2 x 50mm x 40mm Strap Reinforcing
4 x M8 x 25mm Washer		1 x Front Inner Strap Mount C-Section with M10 x 30mm Bolt Welded
1 x M8 x 20mm Washer		1 x Rear Inner Strap Mount Floor Plate with M10 x 90mm Bolt Welded
8 x M5 Nut		1 x 50mm Strap Rubber @ 24" Long
8 x M5 Washer		1 x 50mm Strap Rubber @ 19" Long
1 x Tek Screw		1 x Magnet (for use inside the fuel tank)
BRASS	**ELECTRICAL**	
1 x P3 1/2" x 1/4" Straight	1 x 4mm Blue Wire @ 4" Long (to extend fuel pump wire) 2 x Fuel Resistant Heat Shrink Tube @ 2" Long	

A. DISCONNECT HOSES/LINES FROM OEM TANK

1. Disconnect OEM filler and fast fill vent hoses at frame side (back of the tank). Remove the fuel send and return line, as well as the 1/4-inch breather line located on the right-hand side of the tank. (**CAUTION: Fuel may be under pressure!**). Make sure to capture any fuel leakage.

B. SUPPORT TANK/REMOVE STRAPS

1. Place jack under the OEM fuel tank. Raise the jack until it just supports the tank.
2. Remove the tank support straps from the supported tank. Leave the short strap sections on the left hand side attached.

C. LOWER TANK/DISCONNECT ELECTRICAL/REMOVE TANK

1. Lower the tank partway and disconnect electrical connections to the fuel gauge sending unit.
2. Finish removing the OEM fuel tank (see photo below), set aside. We recommend covering open ports with rags or caps to avoid contamination.



D. REMOVE FUEL PUMP/SENDING UNIT AND ROLLOVER VALVE FROM OEM TANK

1. Remove the cartridge and rollover valve from OEM tank:



2. Install rollover valve into the new tank with OEM hardware.



E. MODIFY THE OEM FUEL GAUGE SENDING UNIT/FUEL PUMP

<u>CAUTION</u>: INSURE THERE IS NO FUEL LEFT IN/ON THE ASSEMBLY AND FUMES HAVE EVAPORATED BEFORE SOLDERING!

1. Cut and extend the float arm by 70mm (the supplied rod is 90mm to allow 10mm of overlap at each end. **NOTE: DO NOT OVERHEAT THE UPPER ROD WHEN SOLDERING, THE CIRCUIT IN THE SENDING UNIT HEAD CAN BE DAMAGED:**





2. Bend the rod for the low fuel light so it is completely straight and pointed straight down.
3. Cut the bracket and extend with supplied strap to an overall length of 14 inches (see above images).
4. Extend the pickup tube with supplied hose.
5. Install the supplied black hose to the return tube.

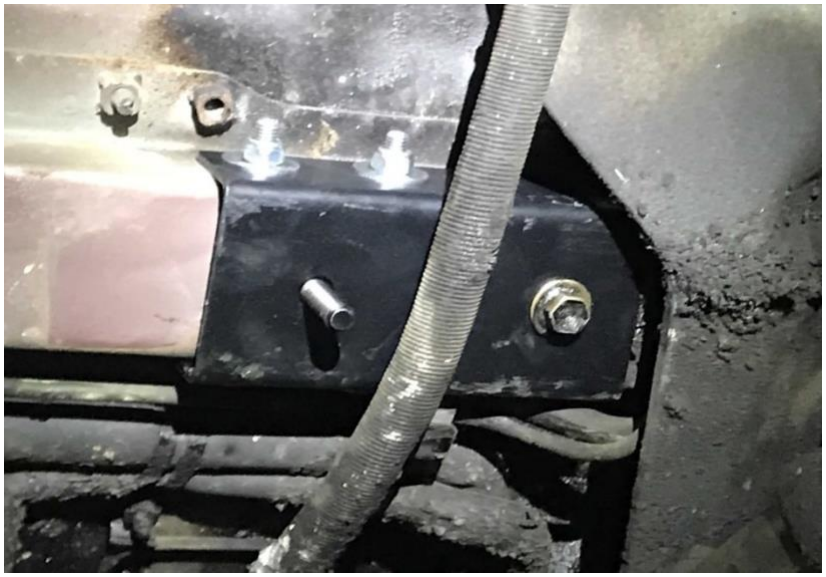
F. INSTALL THE MODIFIED FUEL GAUGE/SENDING UNIT TO THE NEW TANK

1. Drop the supplied magnet into the new tank, positioning it near (not blocking) the swirl pot/fuel pick up point on the cartridge.
2. Install the complete cartridge into the new tank with the supplied nuts and washers.
3. Viewing from the fill port, ensure that the float arm moves freely through the full sweep and does not bind on the baffles.

G. INSTALL MOUNTING BRACKETS/STRAPS

1. Attach the "U" -shaped bracket to the factory tank strap mount hole in the cross member near the transfer case rear output. Using the bracket as a guide, drill two 8.5mm holes through the cross member and secure with the supplied 8mm bolts and locknuts (see photos, below):





2. Lift new tank into position and fit the rear strap. Using the strap as a guide, mark the inner hole on the underside of the body. Remove the tank.

3. Flip the rear seats forward and lift carpet and padding.
From under the vehicle, drill the spot marked in item 2 to 10.5mm

H. INSTALL MOUNTING BRACKETS/STRAPS *(continued)*

1. Fit the reinforcement bracket into the new hole from the inside of the vehicle with the stud facing down (see photos, below):





2. Reinstall carpet and lower seat.

I. JACK TANK INTO POSITION

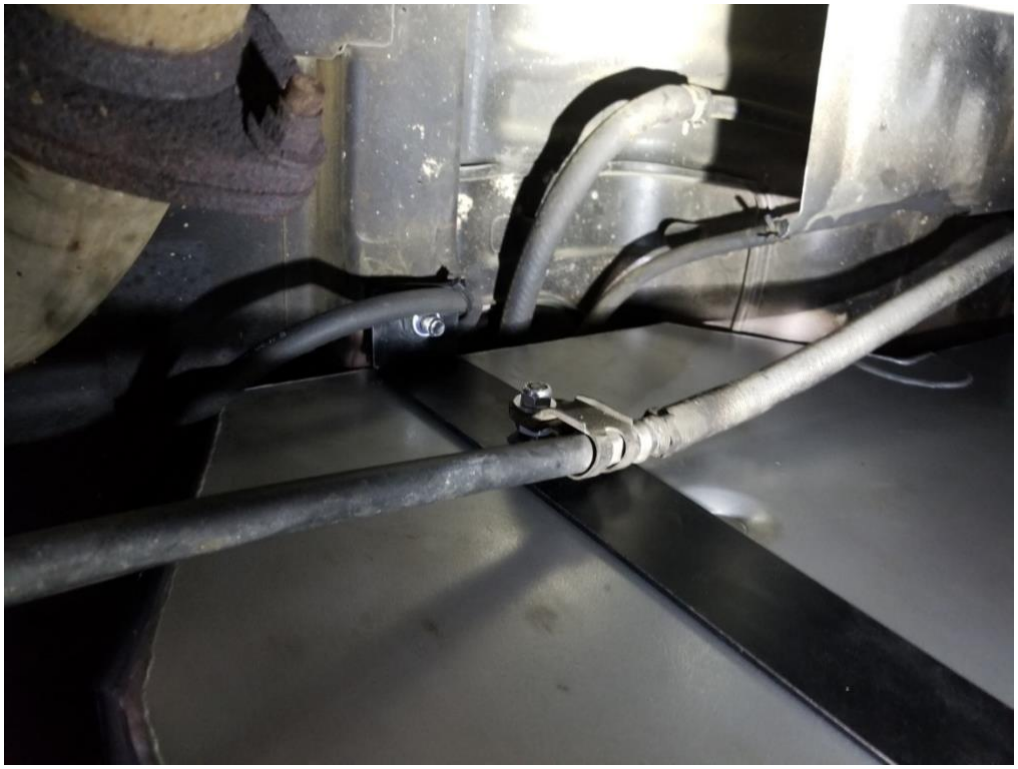
1. CAREFULLY jack tank into position:



2. Connect electrical to the cartridge before the tank is up in final position.

J. JACK TANK INTO POSITION *(continued)*

3. Line up hoses and start connections as tank gets close to the floorboard:





K. SECURE TANK AND FINISH INSTALL

a. Install both straps (using factory hardware on the left-hand side, and supplied hardware on the right-hand side:





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L. SECURE TANK AND FINISH INSTALL *(continued)*





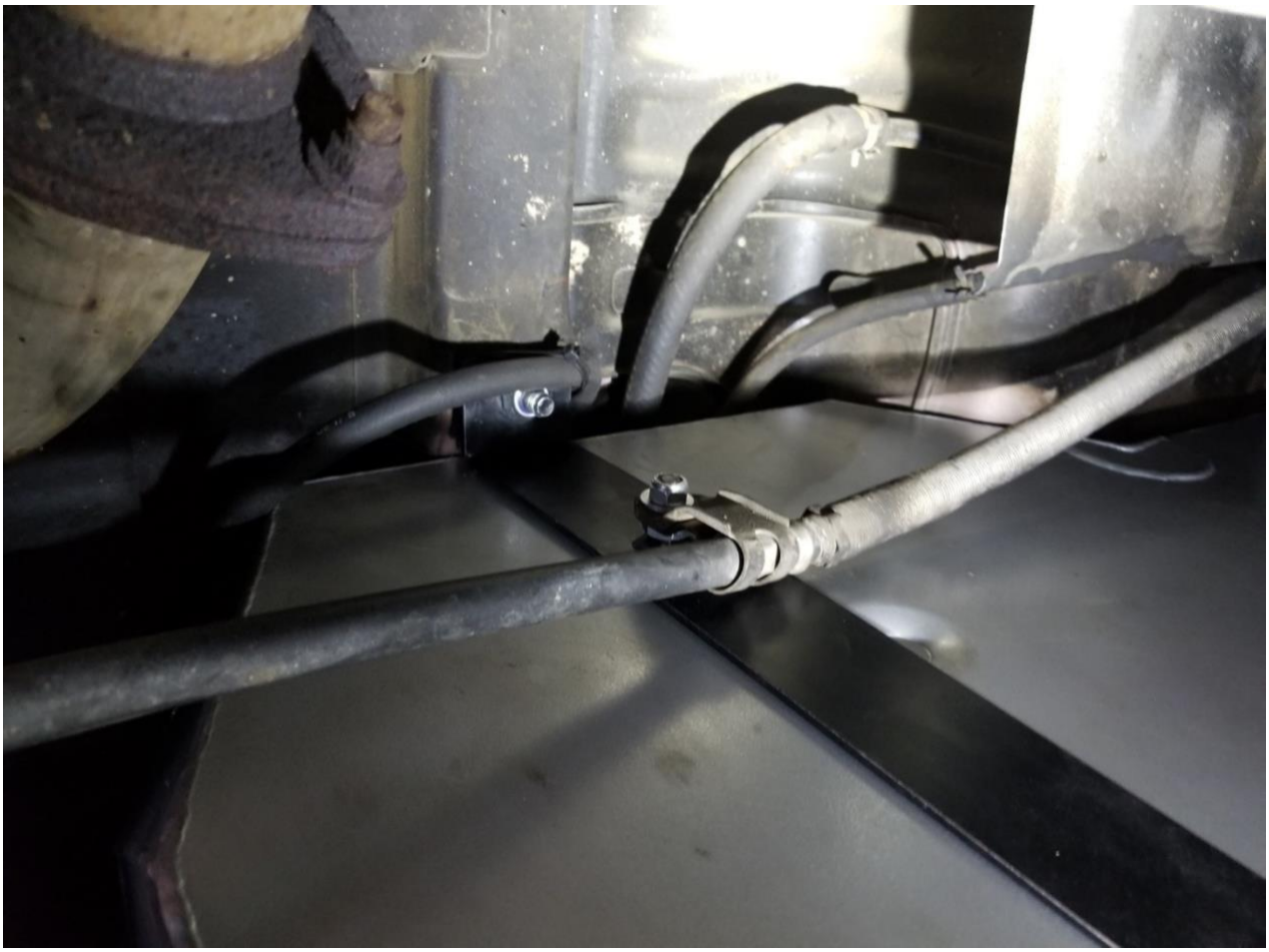
M. SECURE TANK AND FINISH INSTALL *(continued)*

1. Connect filler tube and fast fill hose, and tighten clamps:



SECURE TANK AND FINISH INSTALL *(continued)*

1. Connect the send and return hoses as well as the 1/4” breather hose and tighten all clamps:



2. Check all clearances and neatly cable tie all hoses and wiring.
3. Reconnect vehicle battery.
4. Fill tank with fuel, check again for leaks. **DO NOT OVERFILL OR “TOP OFF” TANK WHEN FILLING, DAMAGE TO YOUR EMISSION SYSTEM MAY RESULT.**

A. Are all hose clamps tight and secure?

B. Are all nuts and bolts secured?

C. Are mounting brackets and straps secure?

D. Are Fuel Gauge Sending Unit bolts secured?

E. Are all fuel lines secure with no kinks?

F. Does tank interfere with, or rub on, other vehicle components?

G. Is tank calibration accurate?

☐ Congratulations! You have completed the install!