



INSTALLATION INSTRUCTIONS FOR A REPLACEMENT TANK

THE LONG RANGER

THE BIG TANK FOR A BIG COUNTRY



2012 Diesel Holden Colorado/Isuzu Dmax

TR74L 143lt

TR74S 127lt

GENERAL NOTES

- a) Fitting time is approximately three hours. No major vehicle modifications are required. This LONG RANGER tank locates under the vehicle in place of the standard tank.
- b) A hoist is not essential but will speed the job up significantly.
- c) The original filler, fuel level sender unit, pick-up unit, are reused in this installation. Extreme care and cleanliness is recommended when handling fuel level sender and submerged fuel pump units. Inspect any components that are to be reused from the original tank installation for serviceability and replace any item found to be defective.
- d) Check if the vehicle owner wants to retain the original tank and any associated parts.
- e) LONG RANGER tanks are coated with a high-performance primer. For added protection, a topcoat may be added. If the vehicle has been rustproofed, it is suggested that the tank (and any changes made to the vehicle during fitting) be touched up after installation.
- f) This installation replaces the standard 80lt with either the #TR74S 127lt (flush with chassis) or the #TR74L 143lt tank (45mm below chassis) improving capacity by 59% or 79% respectively.
- g) The trip meter distance to empty (DTE) will no longer work as intended by the manufacturer. It is estimated that 60% or 80% should be added to the DTE to calculate the approximate driving range. We recommend these figures be cautiously interpreted until the user becomes familiar with the larger tank.

Observe safety precautions during the installation of the LONG RANGER fuel tank



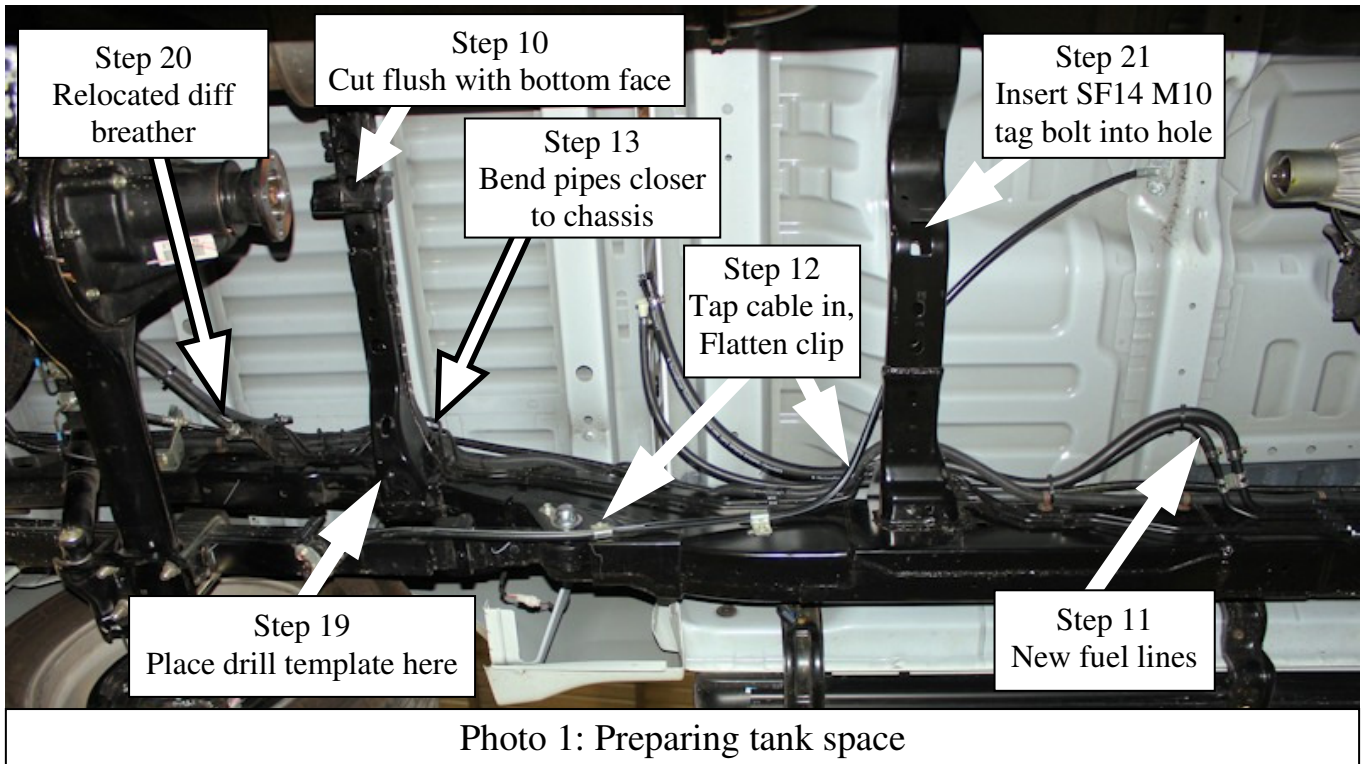
INSTALLATION KIT TR74

QTY DESCRIPTION

- 1 LONG RANGER Tank #TR74L (44 KG) #TR74S (41 KG)
- 1 Plastic bag 550mm long
- 1 Rollover valve #VAROLL07 (Factory fitted in top of tank).
- 1 Rollover valve grommet #VAROLL08 (Factory fitted in top of tank).
- 1 Clamp ring #TR55CR
- 1 Replacement float arm #FLARTR74SC (Colorado)
- 1 Replacement float arm #FLARTR74SI (Isuzu)
- 1 M6/M10 Tag Nut #SF12 (Rear left mount)
- 1 M10 Tag Bolt #SF14 (Front right mounting)
- 1 M10 U Bolt #FAUBOLTTR72 (80Lx67W rear right mounting)
- 6 Screw M5 x 10mm (clamp ring)
- 1 Bolt M6 x 20mm (rear left tag nut mounting)
- 1 Flat washer M6
- 1 Spring washer M6
- 1 Bolt M10 x 30mm (rear LH mount)
- 6 Flat washers M10 x 30 x 2.5mm
- 1 Spring washer M10 (rear LH mount)
- 3 Self-locking nuts M10 (Ubolt, rear right mounting)
- 8 Cable tie 5mm x 300mm
- 1 Fuel Filter #FS-7911 (tank breather)
- 3 Hose clamp MH4
- 4 Hose clamp MH6 (fuel pickup)
- 1 Fuel hose 8mm x 1100mm (Engine return/steel pipe to fuel tank)
- 1 Fuel hose 13mm x 1100mm (Engine pickup unit to steel pipe at front of tank)
- 1 Fuel hose 6.5mm x 800mm (Rollover Valve)
- 1 Fitting instructions
- 1 Warranty information sheet and return card
- 1 LONG RANGER sticker
- 1 Owner's manual update sticker

INSTALLATION GUIDE

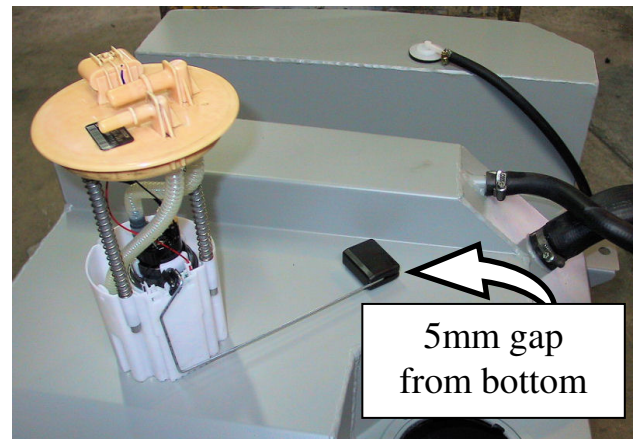
1. Take a few minutes to read through this installation guide before proceeding.
2. Check that all items listed in the Long Ranger kit have been received, and that nothing has been damaged in transit.
3. Although the Long Ranger tank has been cleaned and sealed at the factory, it is recommended that its interior be vacuumed again as an added precaution against blocked filters and/or fuel pump damage.
4. If parts are missing or damaged, if foreign matter is found in the tank, or if any problems arise during installation, contact the factory office without delay for advice phone (02) 4953 3288, fax (02) 4953 1916 or email fitting@thelongranger.com.au Our web page also contains an FAQ , so some of your questions may already be answered.
5. Apply the owner's manual update sticker: Colorado on page 189 opposite the original tank capacity and D-Max is page 8-8 below the original tank capacity.



6. Remove the LH inner guard. Disconnect filler, filler breather from filler neck.
7. Raise vehicle disconnect pickup & return lines at front of tank.
8. Support tank and remove 2 x tank straps.
9. Lower tank approx. 200mm, disconnect the wiring harness by removing white locking clip then unplug pickup unit and complete tank removal.

10. **As per photo 1:** Cut off rear tank strap mounting close to lower face of cross member, deburr and rust proof. *Note: there is approx. 15mm distance to tank from cross member.*

11. **As Per Photo 1 and Plumbing diagram:** Fit new fuel pickup and return lines. This is done by cutting the hard plastic hose away from the quick disconnect fitting to expose the barb, fit new hose and clamps, secure along chassis. *Note: Dmax only has quick connect fittings at tank end.*



12. **As per photo 1:** Tap in hand brake cable at cross member and flatten cable clip to chassis a little further. *Note one or two taps with a rubber mallet just to ensure clearance on tank with model variations.*
13. **As per photo 1:** Bend brake line closer to chassis by about 5mm. *Note: check clearance on tank when fitted.*
14. Clean around pickup unit and remove from original fuel tank. **WARNING:** *Cleanliness and care in handling the fuel pickup unit is essential. Contamination or rough handling may damage the unit.*

15. **Refer to Photo 2:** Carefully unclip the float arm and replace with the new longer one supplied, choose the correct one for your model. **Note:** Sit pickup unit on flat surface and check float is 5mm from bottom.

16. **Refer to Photo 3:** Carefully fit the pickup unit and O Ring using the new screws and clamp ring supplied. **NOTE:** The unit can only be fitted in one orientation, ensure the float does not foul on internal baffling.



Photo 3: Fit hoses and pickup unit

17. **Refer to Photo 3:** Transfer the filler and fast fill breather to the new tank.

18. **Refer to Photo 3:** Fit new hose to rollover valve.

19. **Refer to Photo 1:** Cut the drill template from the last page, mark and drill the 11mm hole in rear left mount and install tag nut with supplied m6 bolt. **Note:** Temporarily tension M10 bolt into new captive nut first then M6 bolt, then remove M10 bolt, this process secures in the M10 nut in the correct position ready for tank fitment.

20. **As per photo 1:** Re-route diff breather line to follow brake lines and secure to LH rail.

21. **As per photo 1:** Insert SF14 M10 tag bolt into hole and rotate 90deg clockwise, leave in place ready for next step.

22. Lift the Long Ranger tank into position, this is best done by lifting RHS up over the tail shaft, while doing this connect the pickup unit's wiring and plumbing, feed filler and breathers up through inner guard over chassis, support tank in place and loosely fit original bolts in LHS mounts with new M10 washers then loosely fit U-bolt with M10 x 30 washers and nyloc nuts to rear RHS then M10 nyloc and washer fro front RHS mount, lastly fit supplied M10 bolt and washer to LH rear mount. **Note:** Rough handling on plastic pickup and return line fittings on pump unit will break them.

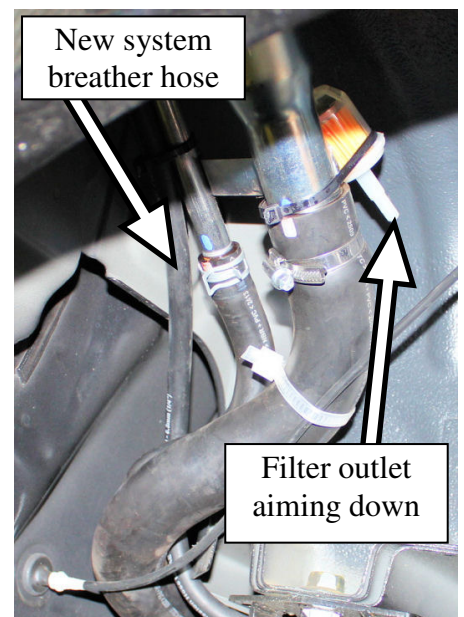


Photo 4: System breather

23. Tighten all tank mounting bolts, check for clearance all around, check that brake lines, electrical harness and hoses will not chafe on tank.

24. Connect filler and filler breather to fill neck.

IMPORTANT: Ensure there are no low points in the fast-fill breather where fuel can lie. Liquid trapped in breather hoses may cause slow filling.

25. **As per photo 4:** Run system breather up along filler neck and fit filter to end of hose with outlet aiming down while securing with cable ties to filler neck.

26. Check that all bolts and hose clamps are tensioned correctly.

27. Refit inner guard.

28. Transfer the fuel removed earlier to the new Long Ranger tank.

- 29. We suggest that the tank is filled with a test load of fuel, test drive vehicle and inspect all fittings for leaks (not included in the quoted price).
- 30. Visually check the job over, make sure all bolts and clamps are fastened correctly, ensure all fuel hoses and electrical wiring will not chafe on nearby components and moving suspension, detail the area involved in the work before returning the vehicle to its owner.

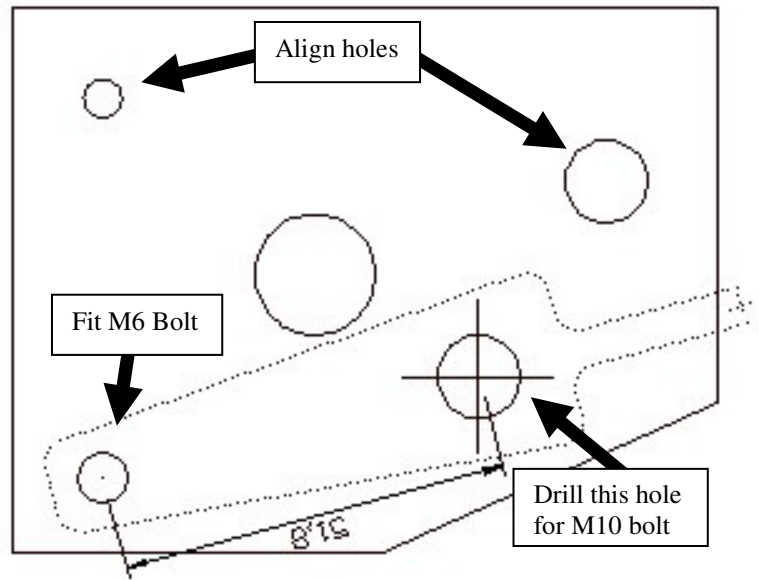
Explain to the owner the operation of the LONG RANGER TANK.

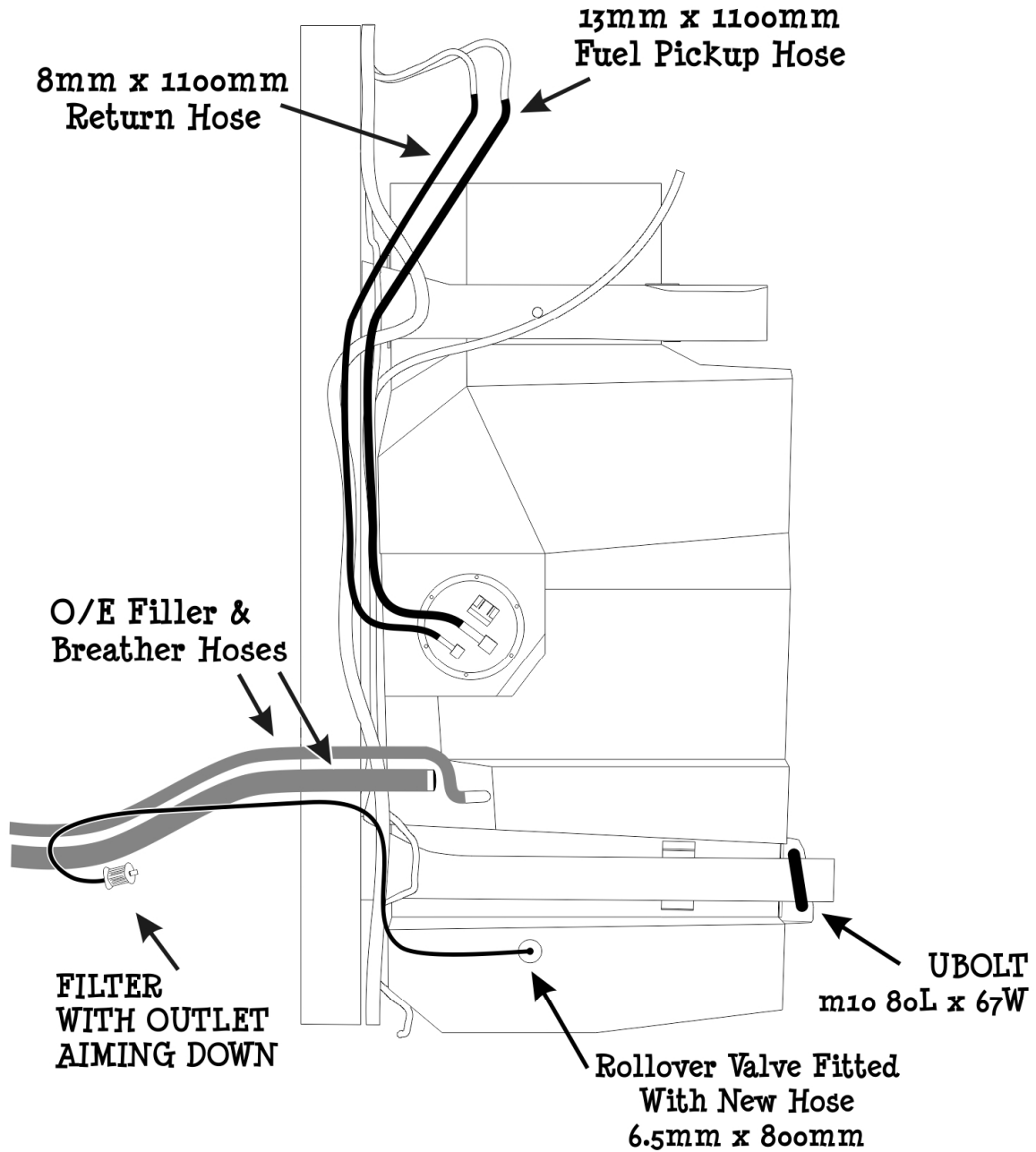
- a) The LONG RANGER tank will fill in a similar fashion to the tank it replaces, but the operator has the option of carrying a substantially larger quantity of fuel.
- b) Due to the different shape of the LONG RANGER tank, the gauge will measure a larger quantity of fuel and will remain on *FULL* for a longer distance before slowly moving to *EMPTY*. The top half of the new tank is bigger than the bottom half.
- c) The trip computer with distance to empty (driving range) will no longer accurately show the distance left to travel. The computer still thinks the tank only has 76lt and will not give a larger range reading with the new tank installed. It is suggested that the readings be cautiously interpreted along with the gauge until familiar with the new readings. As a rough guide the DTE will be approximately 81% greater with a 143lt tank fitted and approximately 61% greater with a 127lt tank installed.
- d) The quoted capacity of the LONG RANGER tank was determined by a bench test. The actual operating capacity may vary slightly from vehicle to vehicle.
- e) The vehicle manufacturer selected springs without accounting for a bigger fuel tank. Several suspension modification options are available.
- f) The LONG RANGER tank is a premium quality accessory that will provide many years of satisfactory service provided that the Care and Maintenance items listed below are taken care of each time the vehicle is serviced.

Hand these instructions, together with the Warranty Registration card and warranty information, to the owner. Neatly apply the LONG RANGER sticker to the rear bumper or window.

CARE AND MAINTENANCE

- 1. After the first 1,000 kilometers, clean or replace the fuel filter, check that there is no rubbing or chafing of the tank, fuel hoses or associated components.
- 2. At each of the vehicle manufacturer's recommended services, check all fastenings for the correct tension, that rust preventative has been correctly applied where applicable, release the tank drain plug and confirm that there is no water present, and replace the fuel filter according to manufacturer's recommendations.





PLUMBING DIAGRAM