



**INSTALLATION INSTRUCTIONS FOR A
FUEL TANK**

LONGRANGER

MADE IN AUSTRALIA SINCE 1976

The Big Tank for a Big Country!



300 SERIES LANDCRUISER

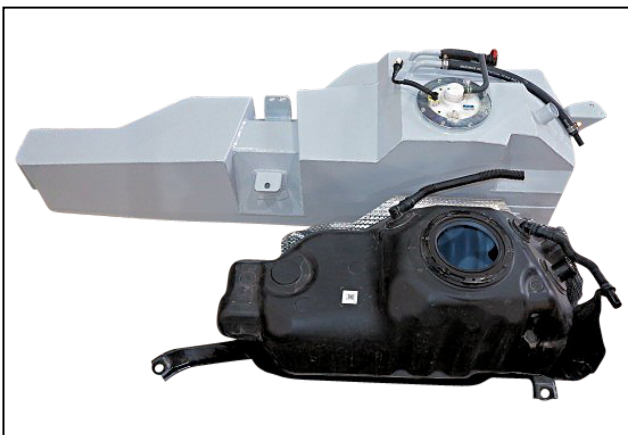
Suits diesel models with factory sub tank

TR92D/HD – REPLACEMENT 82-LITRE TANK

GENERAL NOTES

- a) Take a few minutes to read through this installation guide before proceeding.
- b) Fitting time is approximately 2.5 hours. No major vehicle modifications are required.
- c) This tank replaces the original sub tank and the spare wheel does not need to be relocated.
- d) This **LONGRANGER** tank filling and fuel transfer remains the same as standard, but a larger quantity of fuel is available.
- e) **LONGRANGER** tanks are coated with a high-performance primer. For added protection, a topcoat may be added. If the vehicle has been rust proofed, it is suggested that the tank (and any changes made to the vehicle during fitting) be touched up after installation.

Special tools recommended: M8 clearance drill.



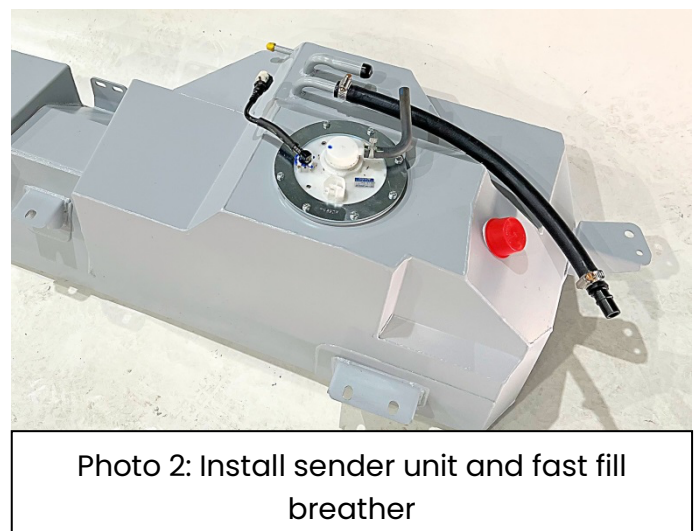
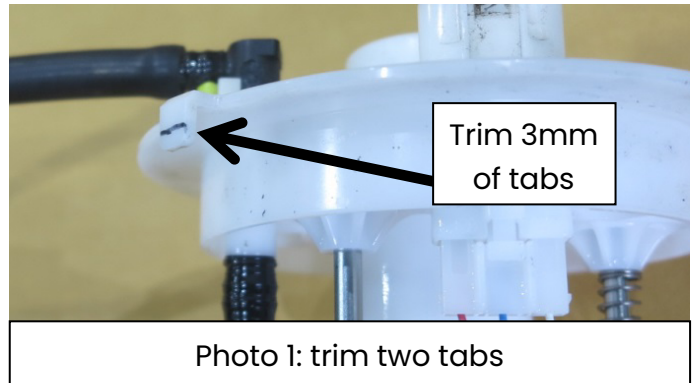
INSTALLATION KIT TR92D

QTY DESCRIPTION This **LONGRANGER** installation kit has been checked by _____

- 1 **LONGRANGER TANK (#TR92D/HD)**
- 1 Tank Front Mount Bracket #TR92B1
- 1 Plastic Quick connect joiner **#PLJOQC1916B**
- 1 M6 x 20 Tag bolt #SF23 (rear mount)
- 1 M8 x 2 tag nuts 112mm #SF26 (R.H Front Mount)
- 1 M8 curved tag nut #SF25 (rear mount)
- 1 Clamp ring #R63CR (pickup unit)
- 2 MH06 Hose Clamp (Auxiliary link breather)
- 4 HS010 Hose Clamp (breather hoses)
- 8 Screws Phillips Head M5 x 12mm (Pickup unit)
- 1 Flat Washer M6 x 20 (rear mount)
- 1 Spring Washer M6 x MED (rear mount)
- 1 Nut plain M6 (rear mount)
- 1 Bolt M8 x 30mm (rear mount)
- 2 Bolt M8 x 20mm (R.H.F mount)
- 3 Washer Flat M8 x 24 (1 x rear mount & 2 x R.H Front mount)
- 3 Washer Spring M8 x MED (1 x rear mount & 2 x R.H Front mount)
- 1 Bolt M10 x 35mm (front mount)
- 3 Washer Mudguard M10 x 30 x 2.5 (1 x fount mount, 1 x L.F mount & 1 x L.R mount)
- 1 Washer Spring M10 x MED (front mount)
- 1 Hose 10 x 600mm (Link fill breather aux. tank)
- 1 Hose 16 x 400mm (fast fill breather aux. tank to quick connect fitting)
- 1 Hose 19 x 270mm (link breather, aux, tank to pipe at floor/quick connect fitting)
- 1 Warranty information sheet and return card
- 1 **LONGRANGER** sticker
- 1 **LONGRANGER** replacement tank fitting guide

INSTALLATION GUIDE

1. Please read these instructions right through before starting to fit your **LONGRANGER** tank, and follow them step by step during fitting. It may save you time and work in the long run, and will ensure the tank is fitted as it was designed to be. If you have any difficulties, contact the **LONGRANGER** factory office without delay for further advice – phone **(02) 4953 3288** or visit www.thelongranger.com.au
2. Although the **LONGRANGER** 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
3. Rust proof or repaint all bare metal parts which have been modified
4. Check any reused original parts for deterioration or damage and replace if required
5. Remove tank guarding and keep bolts for use later in the process
6. Remove filler at the top rear of factory tank
7. Remove tank straps and lower factory tank approximately 100mm, keep bolts for use later in the process
8. Disconnect fast filler hose at the top rear of the tank
9. Lower tank further and disconnect plastic fitting with red clip between chassis and floor
10. Disconnect pickup and small hose from pipes *Note: leave connected to pickup unit*
11. Remove sub tank from vehicle (disconnect wiring while lowering)
12. **As per photo 1:** Removed sender unit from sub tank and trim tabs by 3mm. **NOTE:** *Can use side cutters*
13. **As per photo 2:** Install sender unit to Long Ranger Tank. Using the original sender unit and Oring, and supplied R63CR Clamp Ring and M5x12 Screws
14. Undo the two flanges either side of the exhaust resonator and temporarily remove exhaust from vehicle
15. Disconnect tail shaft from diff and remove from vehicle



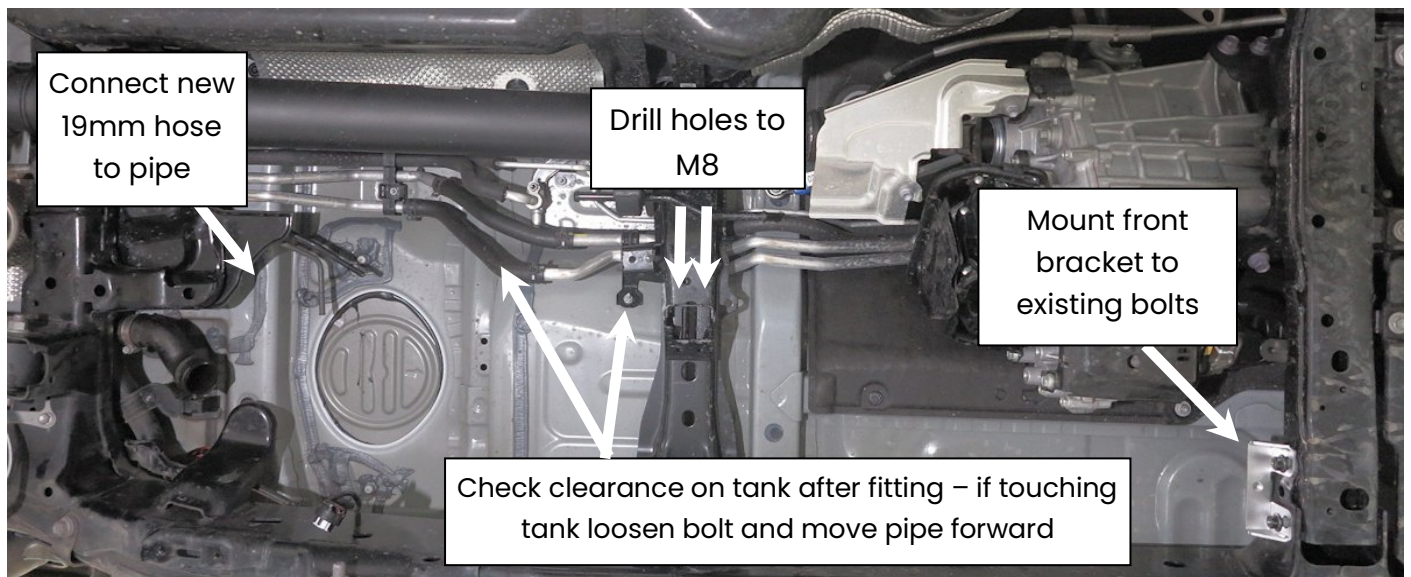


Photo 3: Tank area preparation

16. **As per photo 3:** Mount TR92B1 front bracket to gearbox cross member with existing bolts. **Note:** Only remove nuts, not the bolts from cross member

17. **As per photo 3:** Drill two M6 holes inside of OEM bracket as shown to M8 clearance

18. **As per photo 4 and plumbing diagram:** Cut plastic hose fitting with red clip from original equipment (O.E.) hard line on factory sub tank and fit to supplied 19 x 220mm hose with HS010 clamps supplied

19. **As per photo 3 and plumbing diagram:** Connect 19x220mm link breather with O.E. fitting from previous step back onto O.E. hard pipe at rear cross member with HS010 clamps supplied

20. **As per photo 2 and plumbing diagram:** Fit the 16x400 fast fill breather hose to top of **LONGRANGER** tank and then fit plastic Quick connect joiner #PLJOQC1916B and HS010 clamps supplied

21. Lift tank to within 200mm of final fitment location and support in place

22. **As per plumbing diagram:** Re-connect all plumbing including filler and electrical fittings and fit new Longranger 10mm link breather with clamps supplied

23. **As per photo 5:** Fit tank into place, loosely fit all fasteners. *Note: the M8 curved tag nut is placed in the back side of cross member and feed over towards the rear bracket.*

24. Check for clearance all round (refer to photo 3, check aircon pipe clearance on top of tank, move pipe away from the tank if concerns arise) and tension all fasteners.

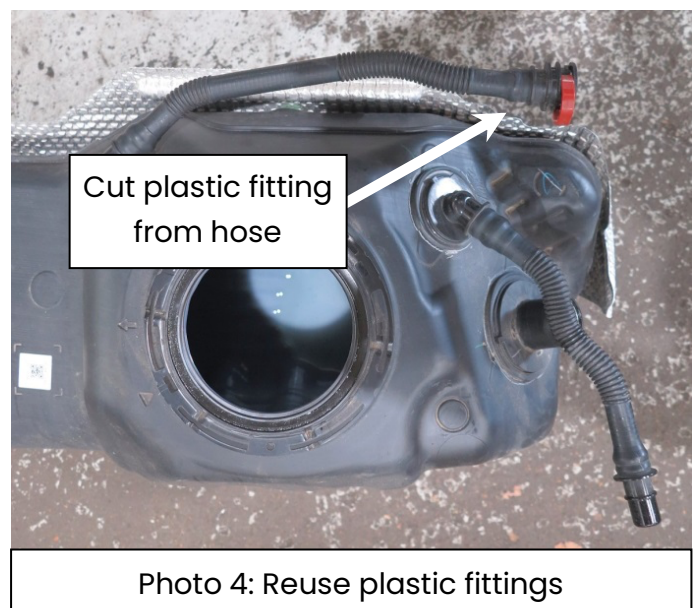


Photo 4: Reuse plastic fittings

25. Refit tail shaft
26. Refit exhaust
27. Double check all hose clamps and fittings
28. Neatly apply the **LONGRANGER** sticker to the bumper or window
29. We suggest that the tank be filled with a test load of fuel, test drive vehicle and inspect all fittings for leaks (not included in the quoted price)

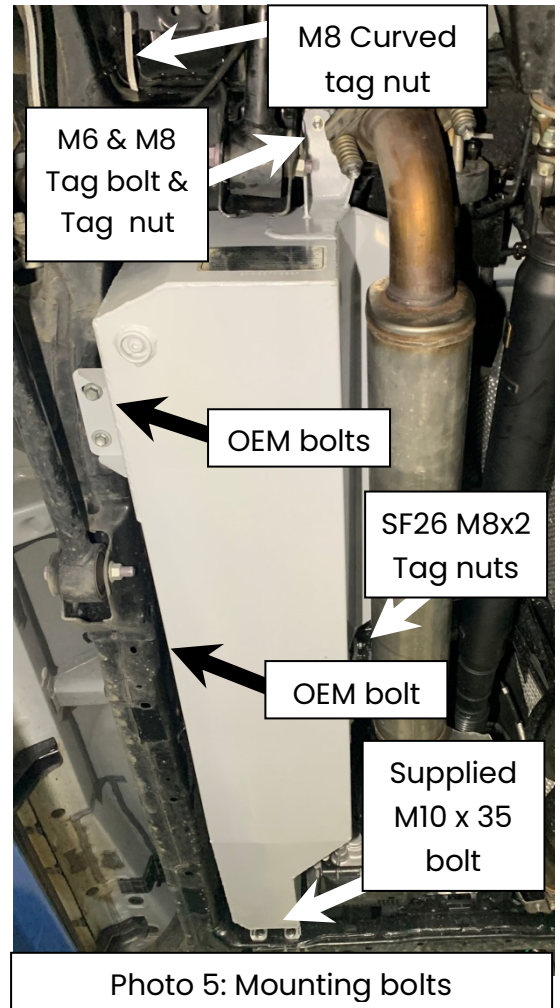
FINAL CHECKS

30. All bolts and hose clamps are tensioned correctly.
31. Adequate clearance exists all-round the tank.
32. Hoses will not chafe on nearby components and will not foul as suspension moves.

Explain to the owner the operation of the LONGRANGER TANK.

- a) The electric pump is covered by its manufacturer's warranty, which does not include damage caused by incorrect use. It is important that the pump is not operated for more than a very brief period without a flow of water.
- b) The quoted capacity of the **LONGRANGER** tank was determined by a bench test. The actual operating capacity may vary slightly from vehicle to vehicle.
- c) The vehicle manufacturer selected springs without accounting for additional fuel and water tanks. Several aftermarket suspension modification options are available.
- d) The **LONGRANGER** 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.

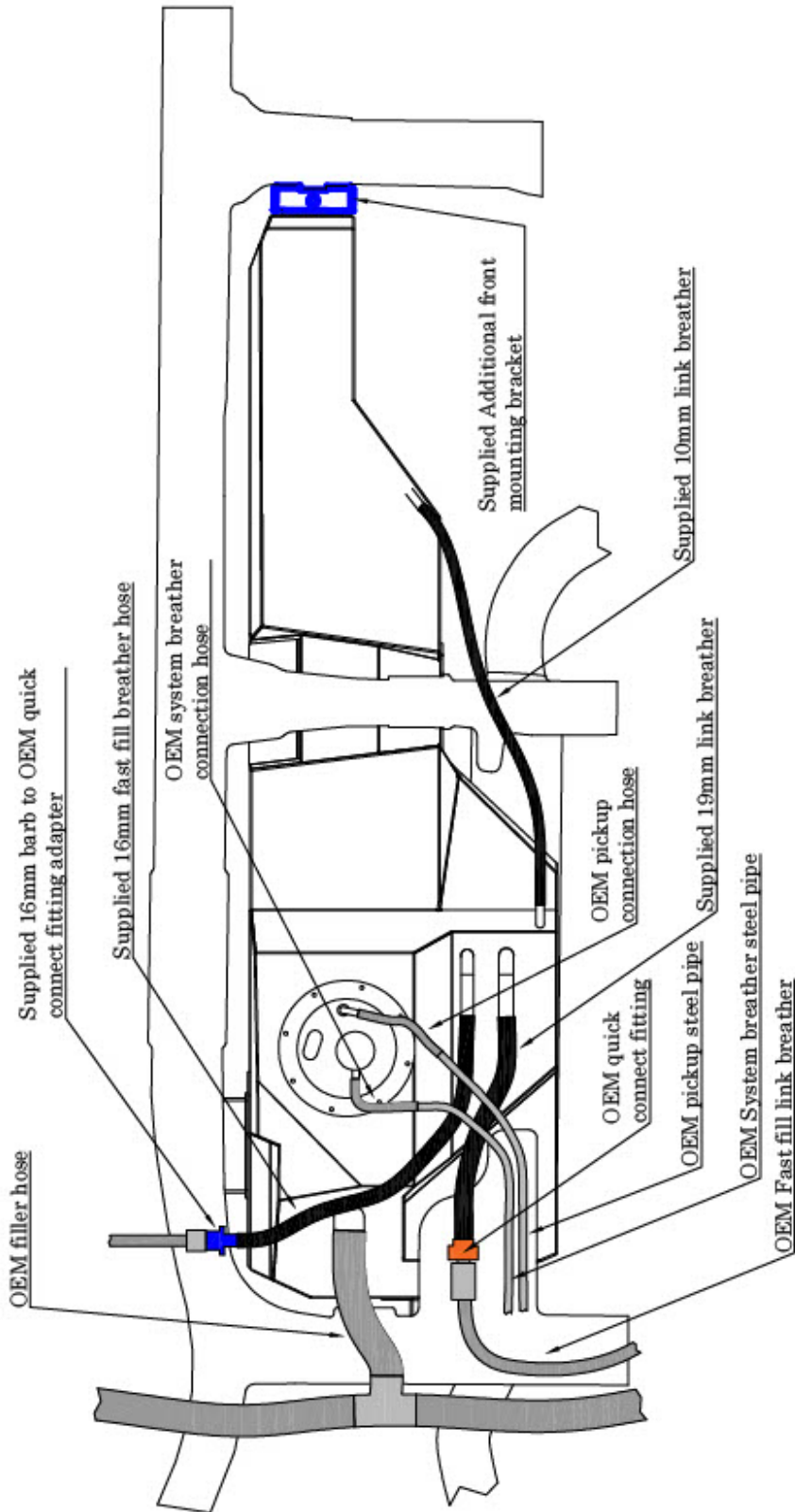
Hand these instructions, together with the Warranty Registration card and warranty information, to the owner. Neatly apply the **LONGRANGER** sticker to the rear bumper or window.



CARE AND MAINTENANCE

- 1)** 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.

- 2)** At regular intervals, drain and flush the **LONGRANGER** water tank to guard against the accumulation of contaminants.



PLUMBING & WIRING DIAGRAM