



Installation Instructions for LDR1 Landrover Discovery Series 1 145L Replacement Tank

This replacement tank consists of 2 separate tanks, 1 large replacement tank and 1 filler neck flow through tank with balance hose to main replacement tank.

1. Remove rear scuff plate and lift rear floor mats. Remove inspection hatch, mark fuel hoses for later reference and disconnect from sender assembly. Remove sway bar from chassis mounts and allow to swing down. Remove fill hose, siphon as much fuel as possible from tank into temporary storage containers and disconnect fast fill hose from filler neck. Cut vent hose on tank side of joiner then remove plastic hose from joiner (new vent hose to be fitted to this later). Remove original fuel tank and all associated mounting straps.
2. Remove sender assembly from original tank measure and record full and empty ohms readings. Using the BS347 O/ring install sender assembly into new tank using steel locking ring, M5 x 8 cap screws and washers provided. Fit 6mm fuel hose to expansion chamber on tank then recheck sender OHMS to ensure free float arm travel. Lift new tank into position and secure using original bolts and washers. Install P3 1/2 x 1/4 fitting to the uppermost socket on the main tank, install P3 3/8 x 1/4 fitting to the remaining socket below the main tank filler neck. Cut 125mm from the OEM fill hose and install to main tank, also install 100mm length of 12mm fuel hose to fast fill balance fitting (P3 1/2 x 1/4).
3. Remove the R/H rear bumper bar end. Remove RH mud flap assembly. Check the floor pan area where the 1/4 panel tank mounts and make sure there are no bolts and/or screws protruding through floor. (If bolts or screws protrude, trim back flush with the lowest point of ribbed section of floor). Install remaining brass fittings to 1/4 panel tank, P3 1/2 x 1/4 to the highest socket and 3/8 x 1/4 to the lowest socket. Lift 1/4 panel tank into position and at the same time feed flow through neck on 1/4 panel tank into fill hose previously installed to main tank. Rear bracket bolts to rear crossmember near RH rear chassis mount. Clamp back edge of bracket with vice grips to cross member. Drill 4 holes for back mount. Slide flat bar with 2 nuts welded inside crossmember using M8 x 25 bolts, spring/flat washers bolt together using M8 x 25 bolt/washer and Nyloc nuts for remaining rear mounts.

4. Connect fuel lines, breather, and filler and fast fill. Ensure vent hose is run in a path to prevent it from being crushed when the 1/4 panel tank is secured, also connect fast fill balance hose and fuel transfer hose. Once complete, open up original mud flap bracket mount holes in wheel arch to 8mm. Place strap with 3 x M8 bolts welded from inside of wheel arch pointing forward. Hang secondary bracket on these studs and bolt front mount of tank to bottom of secondary bracket.
5. Remove rivets, which hold mud flap to mounting bracket. Re-mount mud flap to M8 x 20 studs on front of tank re-using small clamp plate. Secure quarter panel with small bracket provided. This mounts on the outside mud flap mount.
6. Using spacer blocks and bolts provided, refit sway bar, check for tank to chassis clearance, refit fuel hoses to sender assembly and refit floor mats and rear bumper bar. Fill with fuel and check for leaks.

NOTE: BE EXTREMELY CAREFUL NOT TO FORCE BODY PANELS



FITTING KIT CONTENTS LDR1

Brass	Electrical
<ul style="list-style-type: none"> ○ 2 x P3 3/8 x 1/4 hose barb straight ○ 2 x P3 1/2 x 1/4 hose barb straight ○ 1 x 1/4 BSP plug (installed to front socket in 1/4 panel tank adjacent to filler pipes) 	
Bolts / Nuts	Misc Parts
<ul style="list-style-type: none"> ○ 4 x M10 x 75mm bolts ○ 4 x M10 Nyloc nuts ○ 8 x M10 washers ○ 4 x M8 x 25mm bolts ○ 12 x M8 flat washers ○ 2 x M8 spring washers ○ 9 x M8 Nyloc nuts ○ 6 x M5 x 8mm cap screws ○ 6 x M5 washers 	<ul style="list-style-type: none"> ○ 2 x 40mm x 40mm x 120mm spacer blocks ○ 1 x secondary bracket with 2 x M8 bolts welded on ○ 1 x flat bar with 2 x M8 nuts welded on ○ 1 x flat bar with 3 x M8 bolts welded on ○ 1 x quarter panel support bracket ○ 1 x magnet ○ 1 x BS347 O-ring ○ 1 x fuel pump hold down ring
Hose Clamps	Cable Ties
<ul style="list-style-type: none"> ○ 2 x 2" hose clamps ○ 4 x 1/4" hose clamps ○ 1 x 5/8" hose clamps ○ 2 x 1/2" hose clamps 	<ul style="list-style-type: none"> ○ 2 x 7" cable ties
Hose	Instruction Pages
<ul style="list-style-type: none"> ○ 1 x 6mm fuel hose @ 1000mm ○ 1 x 10mm fuel hose @ 100mm ○ 1 x 20mm Conduflex @ 80mm ○ 1 x 12mm fuel hose @ 100mm 	3 pages fitting instructions consisting of: <ul style="list-style-type: none"> ○ 1 x pages fitting kit contents ○ 2 x page fitting instructions
Filters	Sender
	<ul style="list-style-type: none"> ○

Kit Packed By _____

Kit Checked By _____