



LONG RANGE AUTOMOTIVE

Installation Instructions for LDEF90TD5A-RH Landrover Defender 90 TD5 42L Auxiliary Tank

This auxiliary tank fits on the RHS of the vehicle between the front and rear axle. The system operates via a fuel transfer system where by the fuel is pumped from the auxiliary tank into the main tank at the flick of a switch. The tank is fitted with a fuel level sender unit. Fuel is transferred via an electric pump that will pump fuel from the auxiliary tank into the OEM tank. A combination switch/gauge will be located into a suitable position in the dash. When the switch is in operation a **YELLOW** light will be ON, indicating that the transfer pump is in operation. A series of lights will also indicate fuel level. All **GREEN** lights on showing FULL, one **RED** light showing EMPTY.

**(DO NOT OPERATE TRANSFER PUMP WITH NO FUEL IN AUXILIARY TANK OR
PUMP FAILURE WILL OCCUR.)**

1. Run twin core cable from under vehicle to inside cab and carry out wiring as per wiring diagram.
2. Screw all fittings and fuel level sender into auxiliary tank as per diagram.
3. Fit tank mounting brackets to front and rear chassis out riggers. These brackets locate to original holes in the chassis out riggers.
4. Lift tank into position - remember to connect sender unit wire - check clearances and bolt tank into position.
5. Fit filler neck to vehicle in body panel section just behind R/H side door.
6. Connect fill pipe to filler neck and tank, fit fuel transfer pump and filter, complete remaining connection of fuel lines and wiring.
7. Fill with fuel and check fuel transfer pump operation.



FITTING KIT CONTENTS LDEF90TD5A-RH

Brass:	Electrical:
○ 2 x P6 1/2 x 1/4 12mm Elbow for Fast Fill Vent on Filler Neck and Tank ○ 1 x P3 5/16 x 1/4 8mm Straight ○ 1 x 19 x 8mm T-Piece	○ 1 x 2 Core Wire @ 4000mm ○ 3 x Heat Shrink Tube @ 30mm ○ 1 x CP470GS Switch/Gauge Unit ○ 1 x Red Insulated Terminal ○ 1 x 6mm Earth Eye ○ 2 x 5mm Earth Eye
Bolts / Nuts:	Misc Parts:
○ 8 x M10 x 30mm Bolts ○ 8 x M10 Nyloc Nuts ○ 16 x M10 x 25mm Washers ○ 1 x M8 x 20mm Bolt ○ 1 x M8 Nyloc Nut ○ 1 x M8 Washer x 25mm ○ 1 x Front Secondary Bracket ○ 1 x Rear Secondary Bracket (Early type) ○ 1 x Rear Secondary Bracket (Late type) ○ 1 x TEK Screw ○ 5 x M5 x 10mm Pan Head Screws	○ 1 x Filler #FNLD110 (RHS) ○ 1 x Locking Cap ○ 1 x Large Grommet for Filler ○ 2 x C9 U bolts with Nyloc Nuts & Washers
Hose Clamps:	Cable Ties:
○ 6 x 1/4" Hose Clamps ○ 2 x 1/2" Hose Clamps ○ 2 x 1 1/2" Hose Clamps ○ 2 x 5/8" Hose Clamps	○ 10 x 7" Cable Ties
Sender:	Pumps & Filters:
○ 1 x 0-90 OHM Sender Unit	○ 1 x Fuel Pump ○ 1 x Z14K Filter ○ 1 x Fuel Pump Mounting Plate
Hose:	5 Pages of Fitting Instructions Consisting of:
○ 1 x 44mm Fuel Hose @ 100mm ○ 1 x 12mm CMP Hose @ 500mm ○ 1 x 8mm Fuel Hose @ 1500mm	○ 1 x Page Fitting Instructions ○ 1 x Pages Fitting Kit Contents ○ 1 x Page INLDEF90TD5R ○ 1 x Page CP470GS Wiring Diagram ○ 1 x Page CP470GS Operation Instructions

Kit Packed By _____

Checked By _____

DIAGRAM A

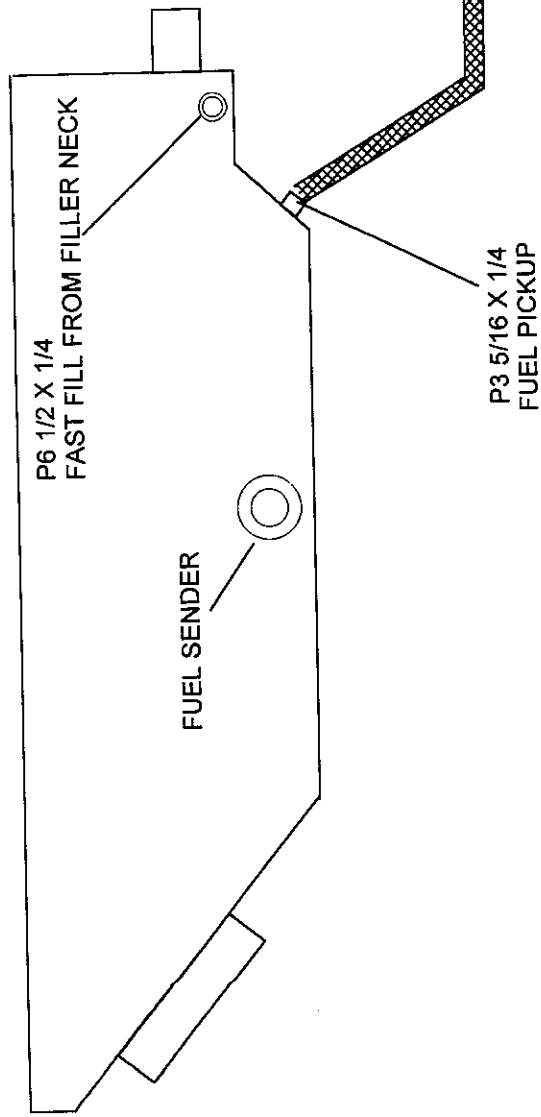
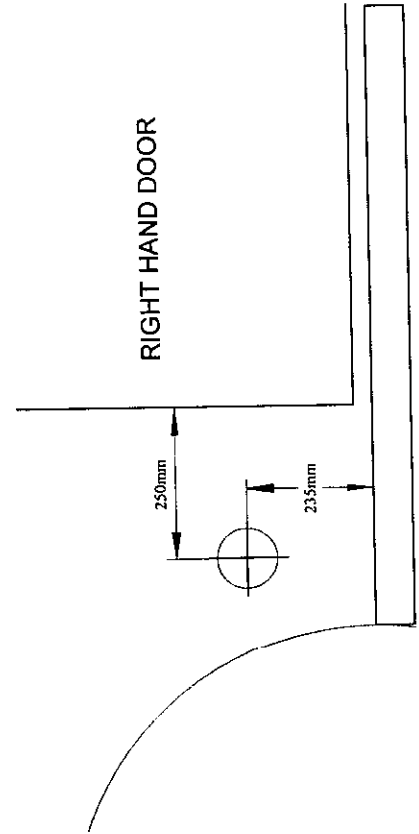


DIAGRAM B

SUGGESTED REFERENCE POINT TO HOLE SAW 67mm FILLER HOLE

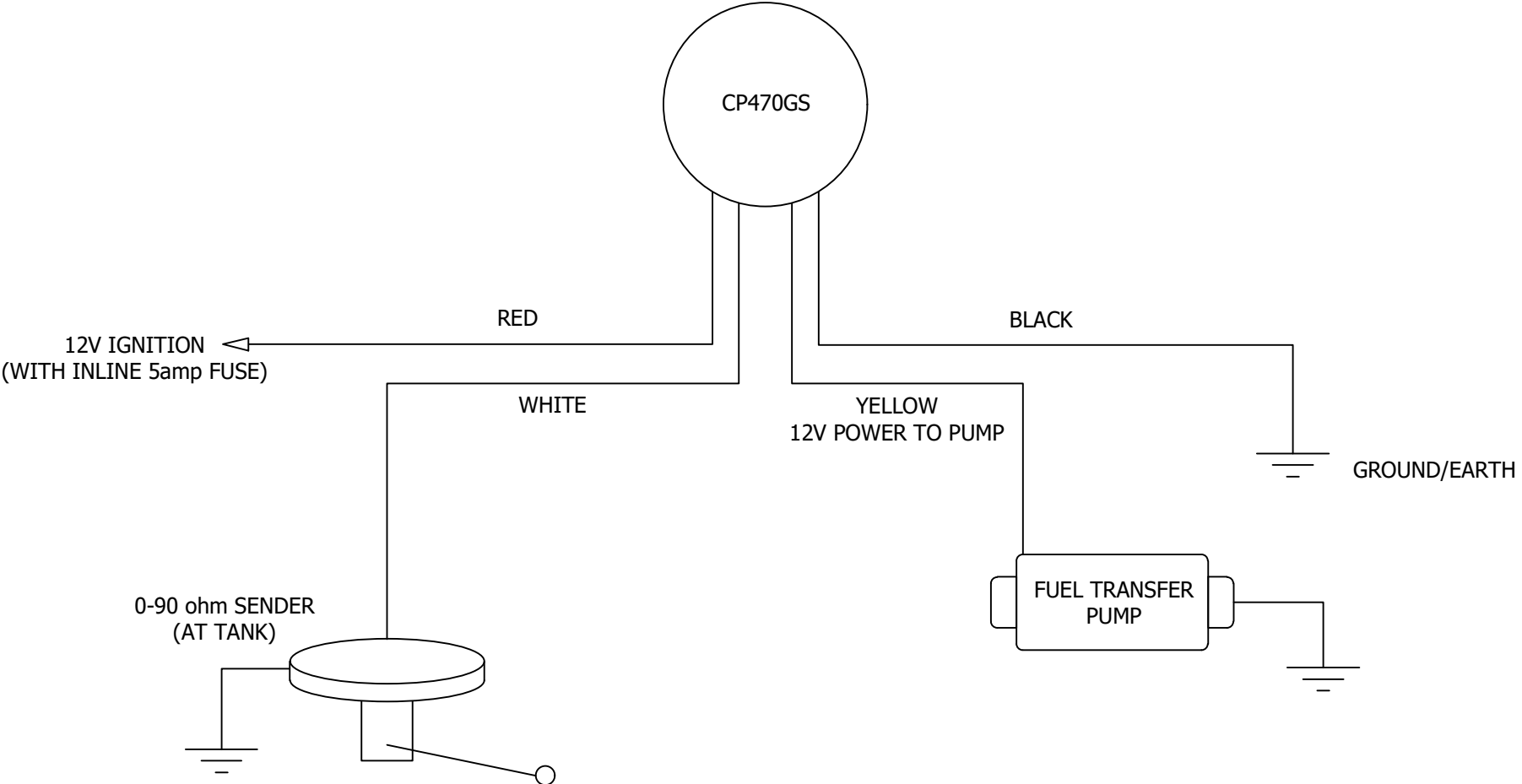


INLDEF90TD5A

LANDROVER DEF 90 TD5

42 Lt AUX TANK

MODEL No. CP470GS
LONG RANGE AUTOMOTIVE AUXILIARY FUEL TANK PUMP CONTROLLER WIRING DIAGRAM



CP470GS		WIRING DIAGRAM		
PROGRAM NUMBERS		EDITION	2	19/05/2026
			DRAWN BY - J.D	
			APPROVED -	

THIS DRAWING REMAINS THE PROPERTY OF
LONG RANGE AUTOMOTIVE AND IS NOT TO BE DUPLICATED
WITHOUT PERMISSION



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The auxiliary tank that is fitted to this vehicle operates via a fuel transfer pump with an automatic switch off when the **auxiliary** tank is empty.

The CP470GS operates as follows:

- The **YELLOW** and subsequent **GREEN** light's display the contents of the Auxiliary Tank.
- One **RED** Light showing **EMPTY**
- All **GREEN** shows **FULL**
- When the switch is turned **ON** and **ROUND YELLOW** light is displayed this indicates that fuel is being transferred from the **AUXILIARY TANK** into the **MAIN TANK**.
- Fuel is transferred at around 2 litres per minute.
- Fuel will be transferred from the auxiliary tank into the main tank until the auxiliary gauge shows a **RED** light at which point, the buzzer sounds. The pump will shut off along with the buzzer when the switch is turned off.

Good To Know:

- Pump LED indicates when the transfer pump is active
- You can manually turn the pump off by pressing the button if required
- The switch will sound an audible beep when the **auxiliary tank** is empty
- Pump is fitted externally to allow easy access if required
- Pump has a filter included

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