



LONG RANGE AUTOMOTIVE

Installation Instructions for LDEF110-LH **Landrover Defender 110** **55L Auxiliary Tank**

This auxiliary tank fits on the LHS of the vehicle between the front and rear axle. The system operates via a fuel transfer system whereby 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, drill remaining holes and bolt tank into position. **NOTE: Exercise caution when drilling hole for centre inside mount as there is a wiring loom inside the chassis rail.**
5. Fit filler neck to vehicle in short 1/4 panel section just behind rear passenger side door. Hole-saw 25mm hole in rear chassis out rigger for fast fill vent line to pass through.
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 LDEF110-LH

Brass: ○ 1 x P3 1/2 x 1/4 12mm Straight ○ 1 x P6 1/2 x 1/4 12mm Elbow for Fast Fill Vent on Filler Neck ○ 2 x P3 3/8 x 1/4 10mm Straight ○ 1 x P3 5/16 x 1/4 8mm Straight For TD5 Add: ○ 1 x 19 x 8mm T-Piece	Electrical: ○ 1 x 2 Core Wire @ 4000mm ○ 1 x CP470GS Switch/Gauge Unit ○ 2 x Red Insulated Terminals ○ 2 x Male Terminals ○ 3 x 6mm Earth Eye
Bolts / Nuts: ○ 6 x M10 x 30mm Bolts ○ 6 x M10 Nyloc Nuts ○ 6 x M10 Washers ○ 4 x M8 x 25mm Bolts ○ 5 x M8 Nyloc Nuts ○ 5 x M8 Washers ○ 3 x Secondary Brackets (suit LHS) ○ 1 x M8 x 100mm Bolt ○ 5 x M5 x 10mm Pan Head Screws	Misc Parts: ○ 1 x Filler #FNLD110 (LHS) ○ 1 x Locking Cap ○ 1 x Large Grommet for Filler
Hose Clamps: ○ 10 x 1/4" Hose Clamps ○ 2 x 1/2" Hose Clamps ○ 2 x 1 1/2" Hose Clamps For TD5 Add: ○ 2 x 5/8 Hose Clamps	Cable Ties: ○ 10 x 7" Cable Ties ○ 5 x 11" Cable Ties
Sender: ○ 1 x 0-90 OHM 500mm Earth Lead	Pumps & Filters: ○ 1 x Fuel Pump ○ 1 x Z14K Filter
Hose: ○ 1 x 44mm Fuel Hose @ 100mm ○ 1 x 10mm Fuel Hose @ 450mm ○ 1 x 12mm CMP Hose @ 500mm ○ 1 x 8mm Fuel Hose @ 1400mm For TD5 Add: ○ 1 x 8mm Fuel Hose @ 500mm	5 Pages of Fitting Instructions Consisting of: ○ 1 x Page Fitting Instructions ○ 1 x Pages Fitting Kit Contents ○ 1 x Page INLDEF110-LH Diagram ○ 1 x Page CP470GS Wiring Diagram ○ 1 x Page CP470GS Operation Instructions

Kit Packed By _____

Checked By _____

DIAGRAM A

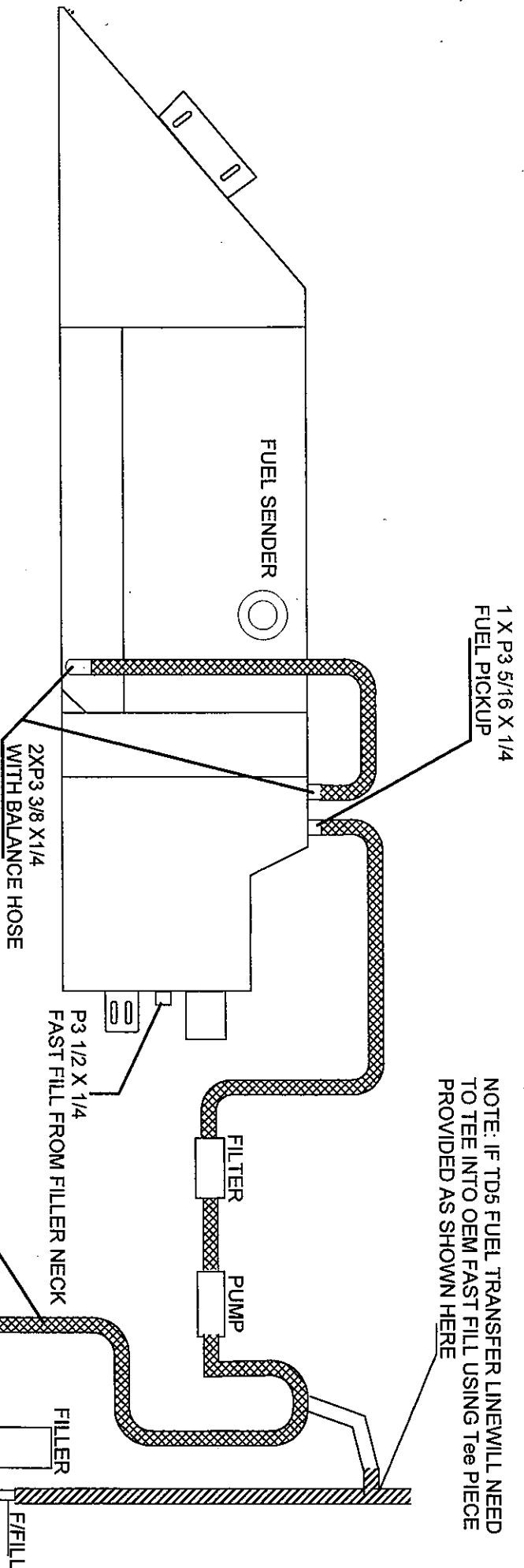
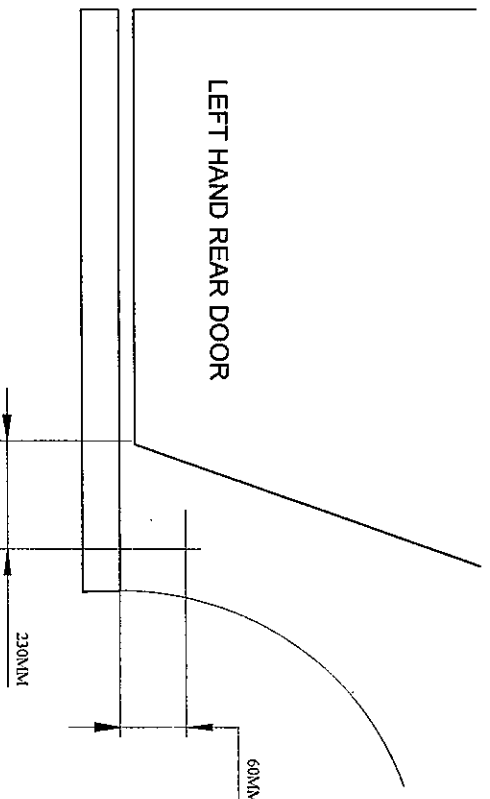
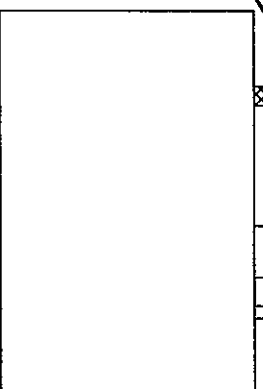


DIAGRAM B

SUGGESTED REFERENCES POINT TO HOLE SAW NEW FILLER HOLE



IF TDI - REMOVE PLUG FROM ORIGINAL TANK AND CONNECT PUMP TRANSFER LINE AS SHOWN HERE

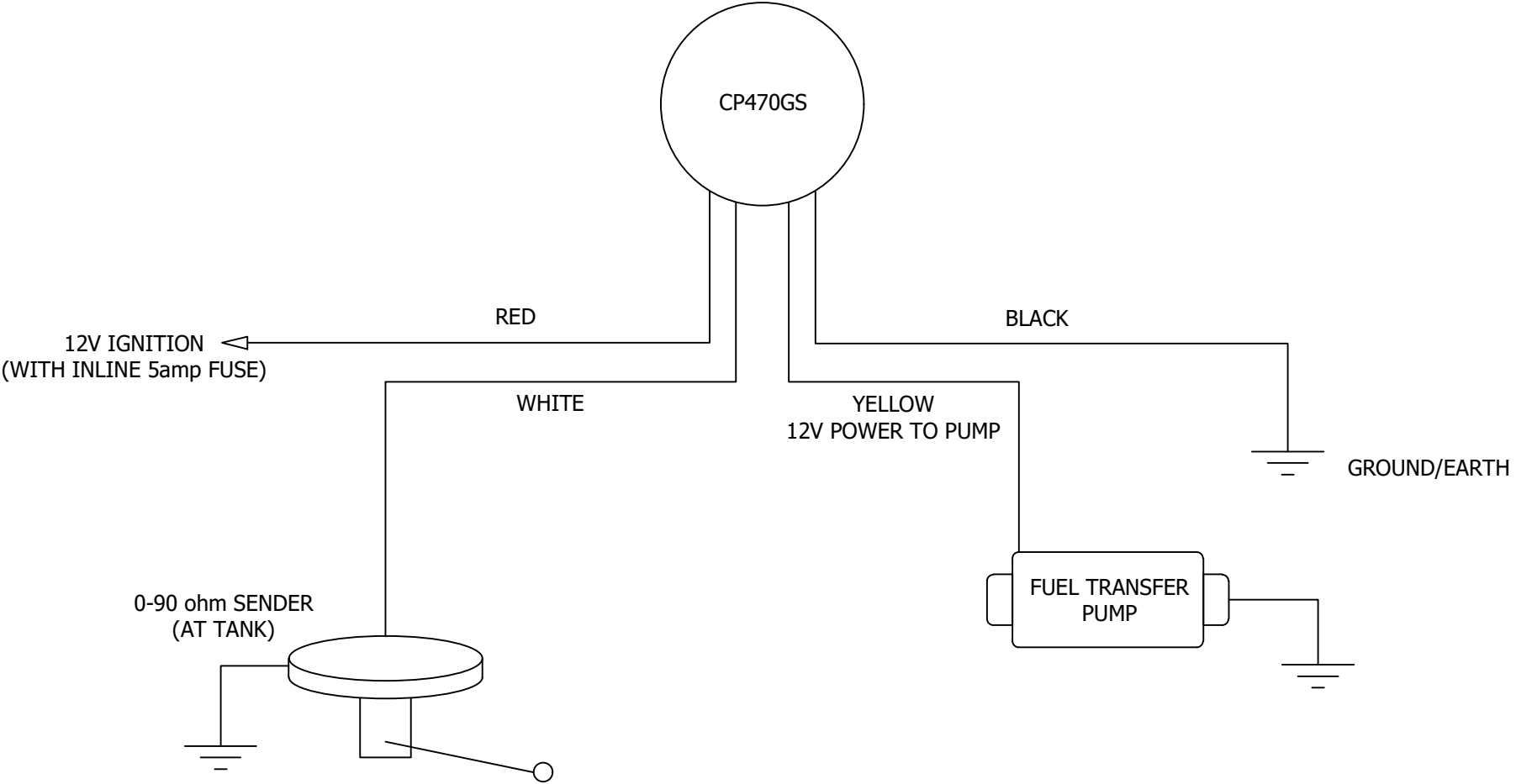


INLDEF110 - L/H

LANDROVER DEF 110 TD5/300 TDI

55 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 -	

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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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