



# LONG RANGE AUTOMOTIVE

## **Installation Instructions for LDEF90TD5A-LH** **Landrover Defender 90 TD5** **32L Auxiliary Tank**

This auxiliary tank fits on the LH side of the vehicle between the front and rear axle. Fuel is transfer 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 tank as per diagram.
3. Fit the secondary tank mounting brackets to the front and rear chassis out riggers. The front bracket locates in original holes in the chassis out rigger. The rear bracket mounts to the round crossmember with 2 x C9 U-bolt type clamps.
4. Lift tank into position - remember to connect the sender unit wire. Check all clearances and bolt tank into position.
5. Mark out location for filler neck and hole saw 67mm hole for filler neck grommet. Screw P6 1/2 x 1/4 elbow into filler neck and fit neck to vehicle.
6. Pick a suitable protected location and mount the fuel pump. Complete the connection of the remaining hoses and wiring.
7. Fill with fuel and check fuel transfer pump operation.



## FITTING KIT CONTENTS LDEF90TD5A-LH

|                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Brass:</b>                                                                                                                                                                                                                                                                                                           | <b>Electrical:</b>                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>○ 1 x P3 1/2 x 1/4 12mm Straight</li> <li>○ 1 x P6 1/2 x 1/4 12mm Elbow</li> <li>○ 1 x P6 5/16 x 1/4 8mm Elbow</li> <li>○ 1 x 19 x 19 x 8mm T-Piece</li> </ul>                                                                                                                   | <ul style="list-style-type: none"> <li>○ 1 x Two Core Cable @ 4000mm</li> <li>○ 3 x Heat Shrink Tube @ 30mm</li> <li>○ 1 x CP470GS Switch/Gauge Unit</li> <li>○ 1 x Red Insulated Terminal</li> <li>○ 1 x Blue 6mm Earth Eye</li> <li>○ 2 x Red 5mm Earth Eye</li> </ul> |
| <b>Bolts / Nuts:</b>                                                                                                                                                                                                                                                                                                    | <b>Misc Parts:</b>                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>○ 6 x M10 x 30mm Bolts</li> <li>○ 6 x M10 Nyloc Nuts</li> <li>○ 12 x M10 x 25mm Washers</li> <li>○ 1 x M8 x 20mm Bolt</li> <li>○ 1 x M8 Nyloc Nut</li> <li>○ 1 x M8 x 25mm Washer</li> <li>○ 1 x TEK Screw</li> <li>○ 5 x M5 x 10mm Pan Head Screws (For Sender Unit)</li> </ul> | <ul style="list-style-type: none"> <li>○ 1 x FNLD110 (LHS)</li> <li>○ 1 x Filler Neck Mounting Grommet</li> <li>○ 1 x Locking Cap</li> <li>○ 2 x Secondary Brackets Suit LHS</li> <li>○ 2 x C9 U-bolt Clamps with Nyloc Nuts and Washers</li> </ul>                      |
| <b>Hose Clamps:</b>                                                                                                                                                                                                                                                                                                     | <b>Cable Ties:</b>                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>○ 6 x 1/4" Hose Clamps</li> <li>○ 2 x 1/2" Hose Clamps</li> <li>○ 2 x 1 1/2" Hose Clamps</li> <li>○ 2 x 5/8" Hose Clamps</li> </ul>                                                                                                                                              | <ul style="list-style-type: none"> <li>○ 10 x 7" Cable Ties</li> </ul>                                                                                                                                                                                                   |
| <b>Sender:</b>                                                                                                                                                                                                                                                                                                          | <b>Pumps &amp; Filters:</b>                                                                                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>○ 1 x 0-90 OHM Sender Unit with 500mm Earth attached</li> </ul>                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>○ 1 x Fuel Pump</li> <li>○ 1 x Z14 Filter</li> <li>○ 1 x Fuel Pump Mounting Bracket</li> </ul>                                                                                                                                    |
| <b>Hose:</b>                                                                                                                                                                                                                                                                                                            | <b>5 Pages of Fitting Instructions Consisting of:</b>                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>○ 1 x 44mm Fuel Hose @ 100mm</li> <li>○ 1 x 12mm CMP Hose @ 500mm</li> <li>○ 1 x 8mm Fuel Hose @ 1500mm</li> </ul>                                                                                                                                                               | <ul style="list-style-type: none"> <li>○ 1 x Page Fitting Instructions</li> <li>○ 1 x Page Fitting Kit Contents</li> <li>○ 1 x Page INLDEF90TD5A/LH</li> <li>○ 1 x Page CP470GS Wiring Diagram</li> <li>○ 1 x Page CP470GS Operation Instructions</li> </ul>             |

Kit Packed By \_\_\_\_\_

Checked By \_\_\_\_\_

DIAGRAM A

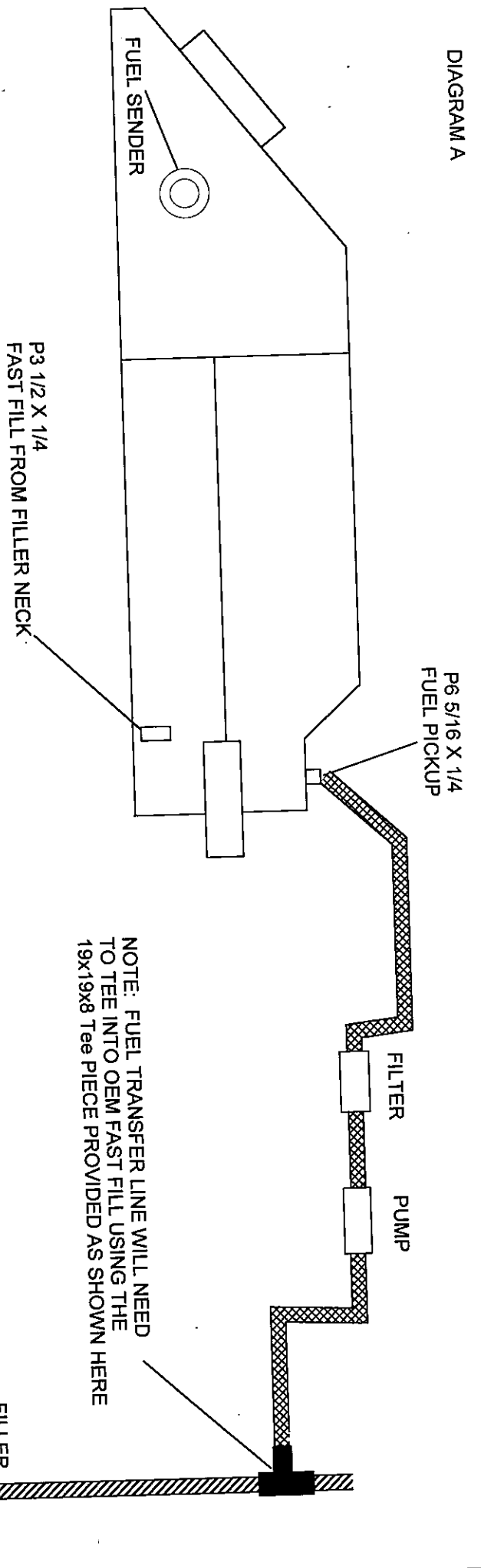
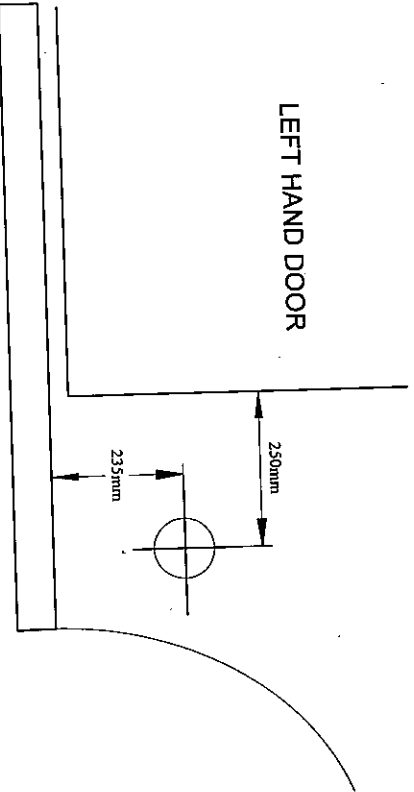


DIAGRAM B

SUGGESTED REFERENCE POINT TO  
HOLE SAW 67mm FILLER HOLE

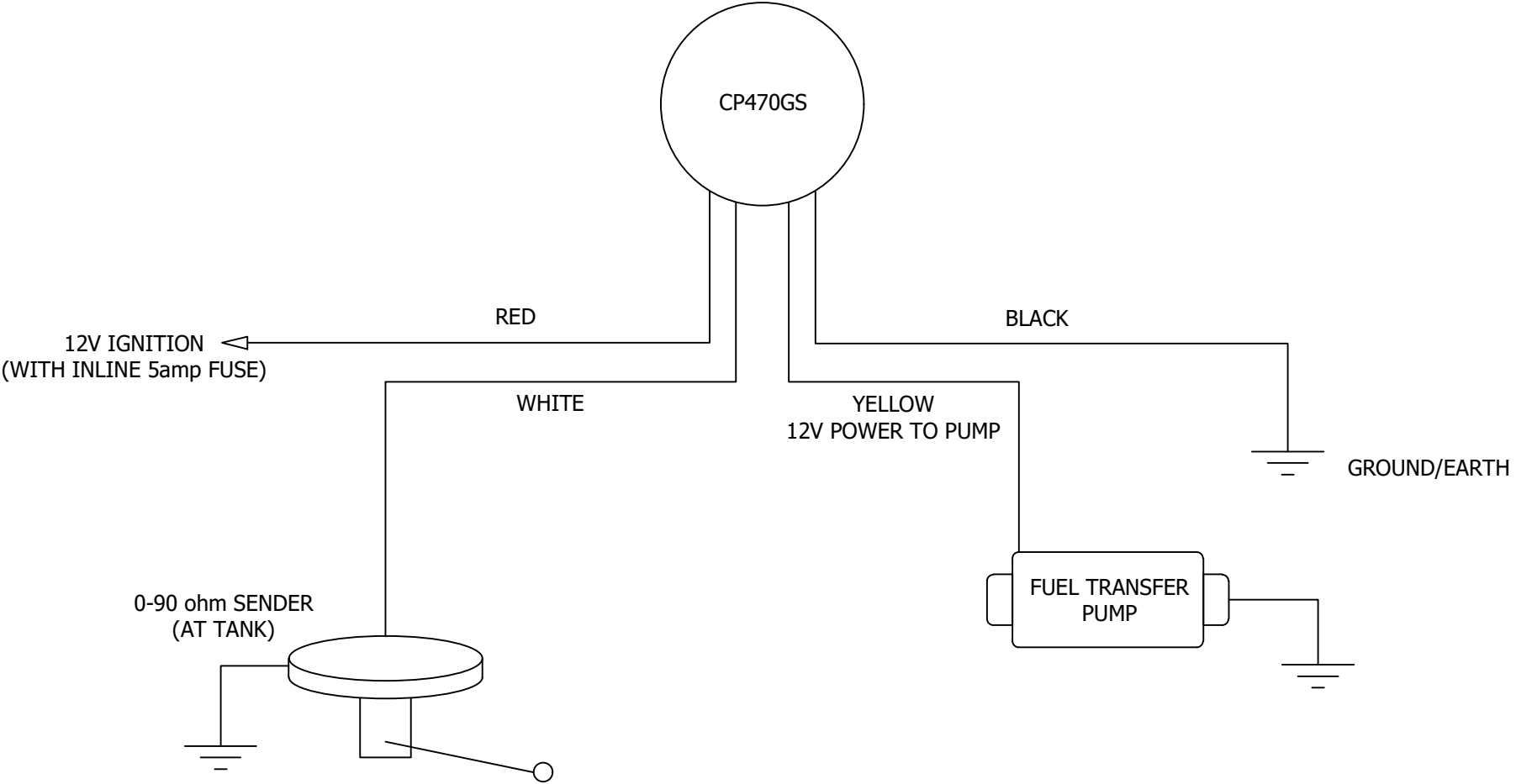


INLDEF90TD5A/LH

LANDROVER DEF 90 TD5

32 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



# LONG RANGE AUTOMOTIVE

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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