



LONG RANGE AUTOMOTIVE

Installation Instructions for JWJKDA Jeep Wrangler JK Diesel 65L Auxiliary Tank

This auxiliary tank fits under the centre of the vehicle and comes with a replacement filler neck that will improve the filling of the main tank. Filling is via a T piece in the fill line where by the main tank will fill first and then the Auxiliary tank. (Whilst filling the main tank some fuel will always flow into the Auxiliary tank). 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. Select a suitable location for the switch gauge unit, we suggest on the RHS of the steering column refer to picture. A 12V ignition source can be found under the LHS of the steering column pink wire with white trace. (Check this with test light.) Carry out wiring **(Refer CP470GS Wiring Diagram)**. Run the twin core under the dash, behind the glove box and under the scuff plate then exit out through the floor under the LH front seat (Drill an 8mm hole and use grommet supplied), run to rear of the vehicle for later connection to the fuel pump and sender unit.
2. If there is vibration dampener on the exhaust pipe you will need to carefully cut this off the pipe. Bolt the new exhaust heat shield in place on the inside of the pipe.
3. Remove the LHR wheel arch cover and the LHR tail light assembly, remove the OEM filler, fast fill and 8mm vent lines (**Note:** You will need to cut the filler neck to get it out). Make sure you disconnect from the original tank before cutting. The neck and pipes will not be reused. Carefully remove the couplings from the tank ends of both the fast fill vent and the 8mm vent lines. Also the fast fill vent end cap that is riveted to the filler neck.
4. Screw the P6 5/8 x 3/8 and the P6 5/16 x 1/8 elbows into the filler neck. Fit the 1550mm length of 16mm hose and the 1400mm length of 8mm hose to the new filler neck, fit the fast fill vent end cap to the 1350mm length of 16mm hose and attach to the bracket on the new filler neck. Refit the new neck to the vehicle and fix to body with M6 x 16mm bolt washers and Nyloc nut. Fit 420mm length of 32mm hose to the fill neck. Screw the P3 5/16 x 1/8 straight fitting into the intermediate pipe and fit pipe in position connecting back to the original tank with the original hose.



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5. Screw the fuel transfer pump to the pump mounting bracket and bolt to the rear stud of the hand brake cable wire bracket, with the pump outlet pointing to the LHS, complete the wiring of the pump. Screw the fittings into the tank P6 5/8 x 3/8 elbow points towards the filler neck and P3 5/16 x 1/4 straight goes into the fuel pick up. Jack the tank into position, on the top of the front crossmember you will find a hole that lines up with the front in board bolt hole, mark all holes and drill out to 10.5mm. (You may find it easier to move the tank out of the way to do this). Bolt tank into position, 16mm x 44mm crush tube is for the LHR mount. Secure with M10 bolt washers and Nyloc nuts.
6. Connect remaining hoses and sender unit wires (including the earth). Check all clearances and neatly cable tie all hoses and wiring. Refit wheel arch cover and tail light.



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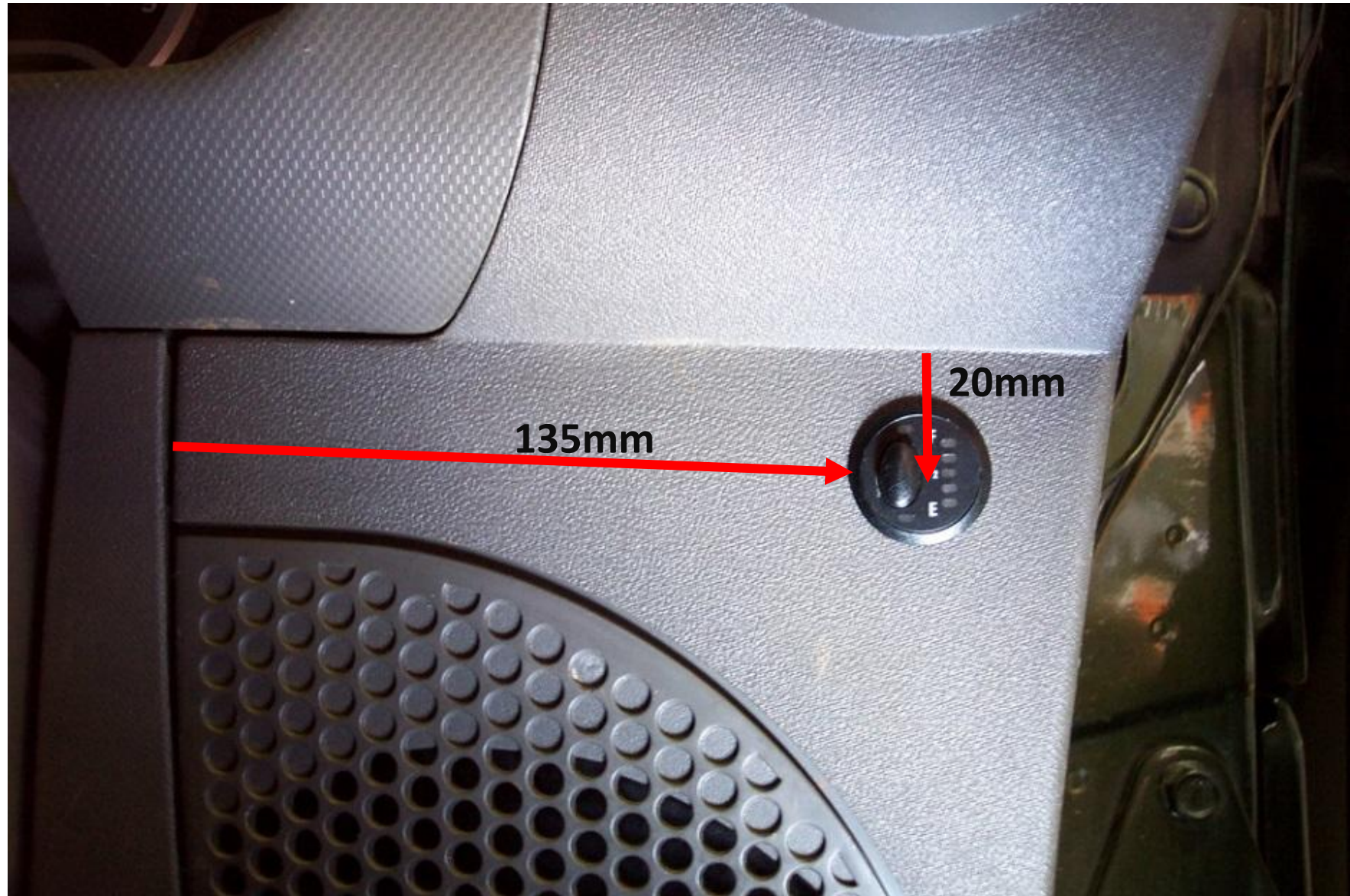
FITTING KIT CONTENTS - JWJKDA

Brass:	Electrical:
○ 1 x P6 5/16 x 1/8 Elbow ○ 2 x P6 5/8 x 3/8 Elbows ○ 1 x P3 5/16 X 1/8 Straight ○ 1 x P3 5/16 X 1/4 Straight	○ 1 x CP470GS Switch Gauge ○ 1 x 3mm Two Core @4m ○ 1 x Red Insulated Terminal ○ 3 x 6mm Blue Eye Terminals ○ 1 x 3/16 Wiring Grommet (WG2) ○ 3 x Heat Shrink Tube
Bolts / Nuts:	Misc Parts:
○ 2 x M10 x 50mm Bolts ○ 2 x M10 x 75mm Bolts ○ 2 x M6 Flat Washers ○ 8 x M10 x 30mm Flat Washers ○ 4 x M10 Nyloc Nuts ○ 5 x M5 x 8 Pan Head Screws ○ 1 x M6 x 16mm Bolt ○ 1 x M6 Nyloc Nut ○ 3 x Tek Screws ○ 2 x 30mm Tek Screws	○ 1 x Filler Neck #FNJWJKDA ○ 1 x Intermediate Fill Pipe #FPJWJKDA ○ 1 x LC91 Locking Cap ○ 1 x Heat Shield with Nuts & Clamps ○ 1 x 16mm x 44mm Crush Tube
Hose Clamps:	Hose:
○ 7 x 1/4 Hose Clamps ○ 4 x 5/8 Hose Clamps ○ 4 x 1" 1/4 Hose Clamps ○ 1 x EFI Hose Clamp ○ 1 x 25mm P-Clip	○ 1 x 8mm Hose @ 1000mm ○ 1 x 8mm Hose @ 1400mm ○ 1 x 32mm Hose @ 100mm ○ 1 x 32mm Hose @ 420mm ○ 1 x 16mm NTP Hose @ 1550mm ○ 1 x 16mm NTP Hose @ 1350mm
Pumps & Filters:	Cable Ties:
○ 1 x FEP06SV Fuel Pump & Filter ○ 1 x Fuel Pump Mounting Bracket	○ 10 x 7" Cable Ties ○ 5 x 11" Cable Ties
Sender:	6 Pages of Fitting Instructions Consisting of:
○ 1 x 0-90 OHM Sender Unit C/W 400mm Earth, Installed Using: - 5 x M5 x 10 Pan Heads - 5 x M5 Spring Washer	○ 2 x Pages Fitting Instructions ○ 1 x Pages Fitting Kit Contents ○ 1 x Page CP470GS Wiring Diagram ○ 1 x Page Switch Gauge Location ○ 1 x Page CP470GS Operation Instructions

Kit Packed By _____

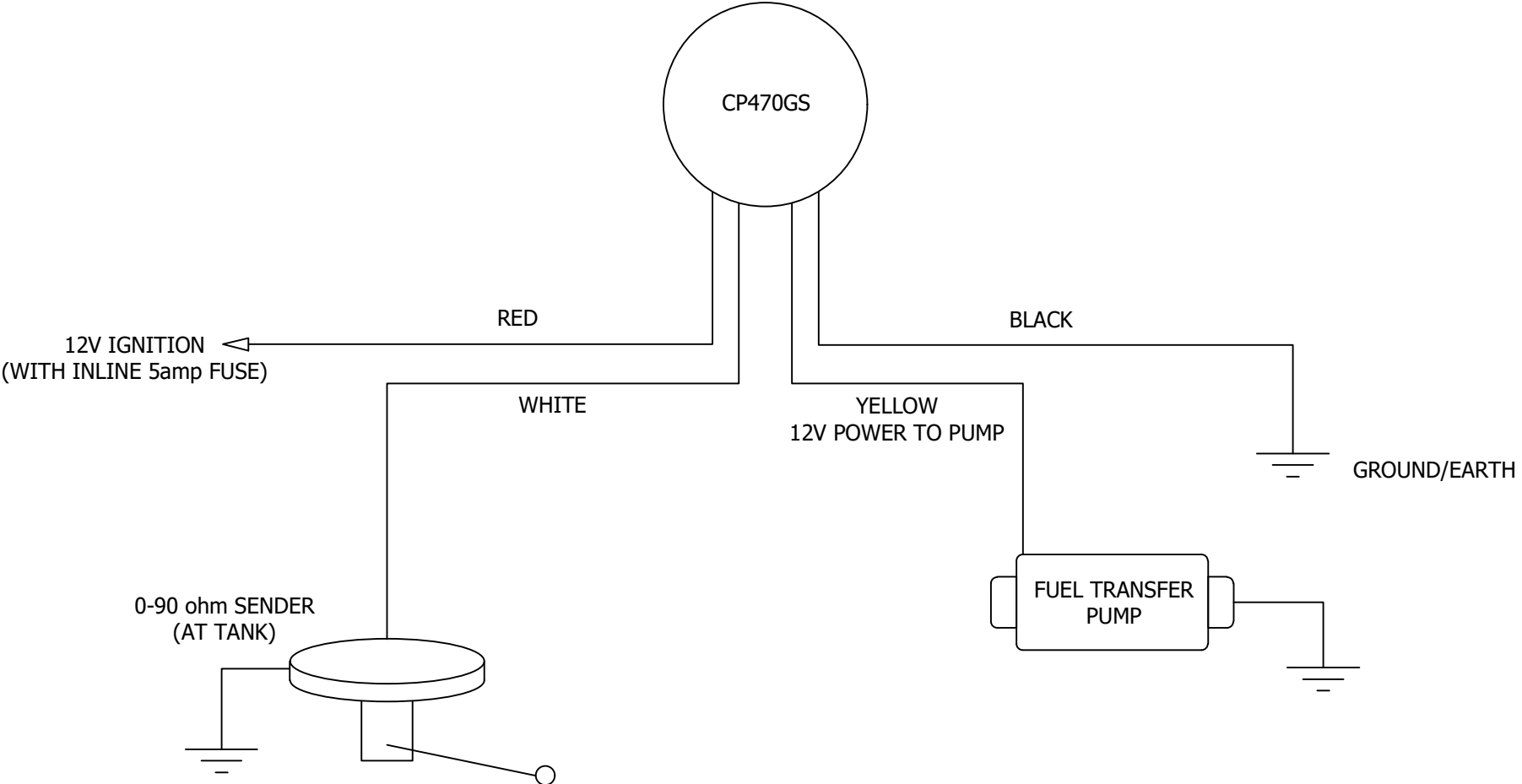
Checked By _____

JWJKDA CP470GS Location Guide
Drill 20mm down and 135mm inwards as shown in the photo



Please note, gauge style may differ to photo, but location is still the same

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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