Installation Instructions for JGCHWKDA
Jeep Grand Cherokee WK Diesel
75lt Auxiliary Tank

This Auxiliary tank fits under the rear of the vehicle.

Fuel is transferred via an electric pump that will transfer fuel from the auxiliary tank into the OEM tank. A combination switch/gauge will be fitted in 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 the fuel level. All **GREEN** lights showing FULL, one **RED** flashing light showing EMPTY.

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

1. Select a suitable location for the CP470GS switch/gauge unit. We suggest mounting it in the small flat section just forward and to the RHS of the Auto Shift. (A 12volt ignition power source can be found under the end cover of the RHS of the dash. (Pink wire with a Green trace). Carry out wiring of switch gauge unit and run the twin core cable under the scuff plates and to the rear of the vehicle. Remove the spare wheel and trim cover, lift the carpet to gain access to the floor. Drill 8mm hole on the LHS of the spare wheel well as per **Fig 1** and run the twin core through the grommet and out this hole.

2. Remove the LHR wheel and wheel arch cover. Clamp the fill hose and unbolt the filler neck assembly. Cut the filler neck pipe and fast fill vent pipe as shown in **Fig 2,** make sure the cuts are filed smooth so there are no sharp edges and the pipe is round and not out of shape. Screw the fittings into the new twin filler neck as per **Fig 3.** Remove the vent end cap from the original filler and fit to the new twin filler. Refit to vehicle using the 70mm length of 32mm hose to join the original fill pipe to the new twin filler. You will need to carefully bend the 8mm vent tube to connect it back to the 8mm hose from the vent end cap. Mount the Fuel transfer pump in the wheel arch as per **Fig 4.**

3. Loosen the L/H muffler and remove and discard the tow hook bracket and brace from the LHS, use the M12 fine thread nut to secure the one bolt from the brace that cannot be removed. Bolt the LH and RH secondary brackets in place using the tow bar bolts or the OE bolts (If no tow bar fitted) as per **Fig 5.** If the wiring for the trailer plug comes out of one of the plastic bungs in the floor you will need to trim the bung so the wiring can sit snugly to the floor. Remove the two metal studs from the LHS of the floor pan. Screw the fittings into the tank as per **Fig 6.**

4. Using the floor reinforcing plate as a template, from the inside of the wheel well drill the two 10.5mm holes for the front mount. Note, there are two holes in the RHS of the floor plate and the tank. Check if the corresponding holes in the underside of the vehicle are 190mm apart or 210mm and drill the appropriate holes. (YOU WILL NEED TO TRIM THE BODY DEADENER AWAY FROM WHERE THE FLOOR PLATE SITS as per **Fig 7).** Lift the tank into position and fit the 16mm x 50mm crush tubes on top of front mount as the tank goes into position. Don't forget to connect the sender unit wire and ensure that the wiring in not pinched on the top of the tank. Secure tank with M10 x 80mm bolts washers and Nyloc nuts.

5. Connect the auxiliary tank filler with the 2 x 90mm lengths of 32mm hose and the metal fill pipe. Connect the OE fast fill vent tube to the P6 5/8 x 3/8 elbow on the twin filler with the 400mm length of 16mm NTP hose. Connect the 1100mm length of 12mm hose from the auxiliary tank to the P6 1/2 x 3/8 elbow on the twin filler. Connect the fuel filter to the fuel pick up on the auxiliary tank with the 150mm length of 8mm hose and use the 1200mm length of 8mm hose to connect the filter to the inlet side of the pump. Use the 400mm length of 8mm hose to connect the outlet side of the pump to the P6 5/16 x 1/8 elbow on the twin filler. Fit CF 20 and CF16 Conduflex to the pickup and fast fill lines to protect them where they are exposed in the wheel arch. Secure the fill pipe and fuel lines with P Clips and TEK screws as shown in Fig 4. Secure the sender unit earth wire to the body. Neatly cable tie all hoses and wiring in place. Check transfer pump operation. Refit wheel arch cover and refit spare wheel trim etc.

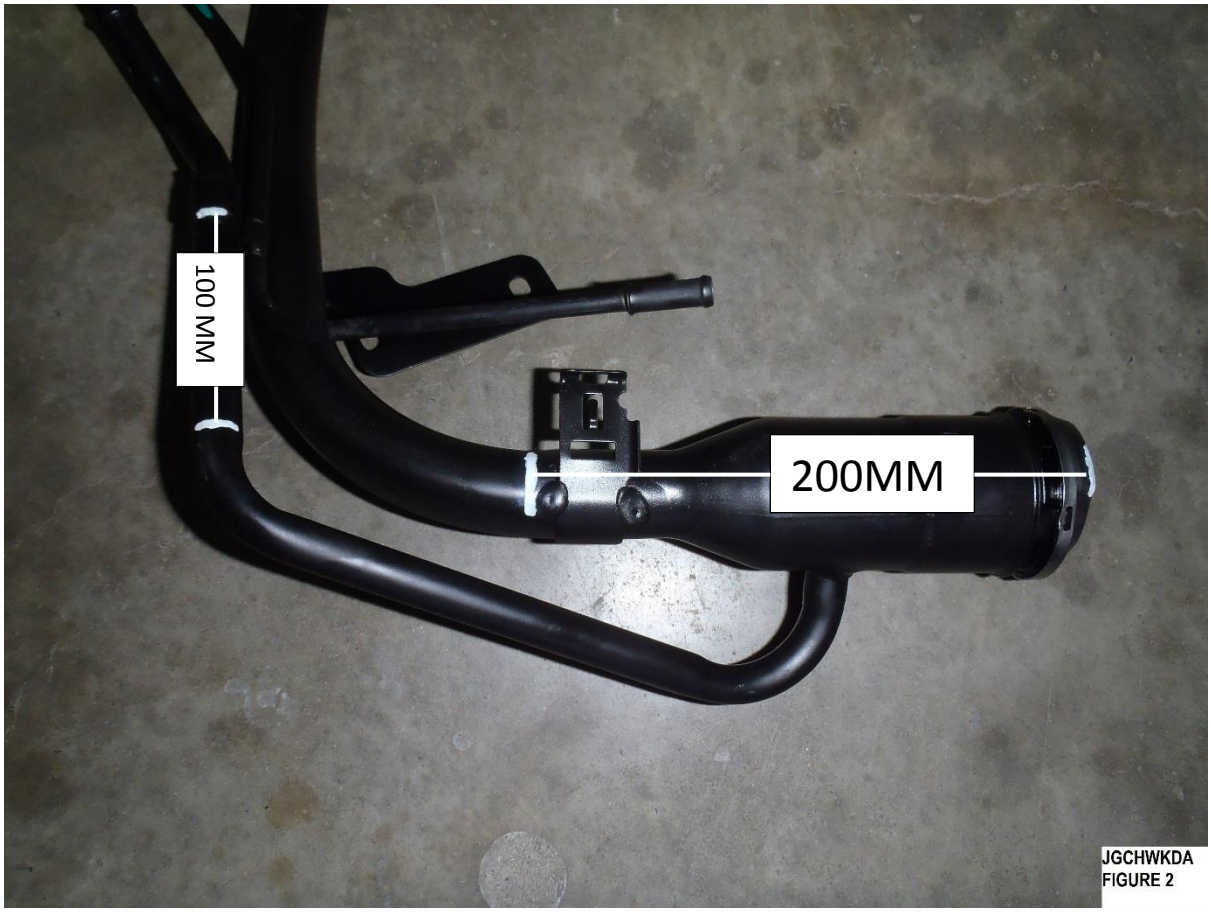
LONG RANGE AUTOMOTIVE

FITTING KIT CONTENTS - JGCHWKDA

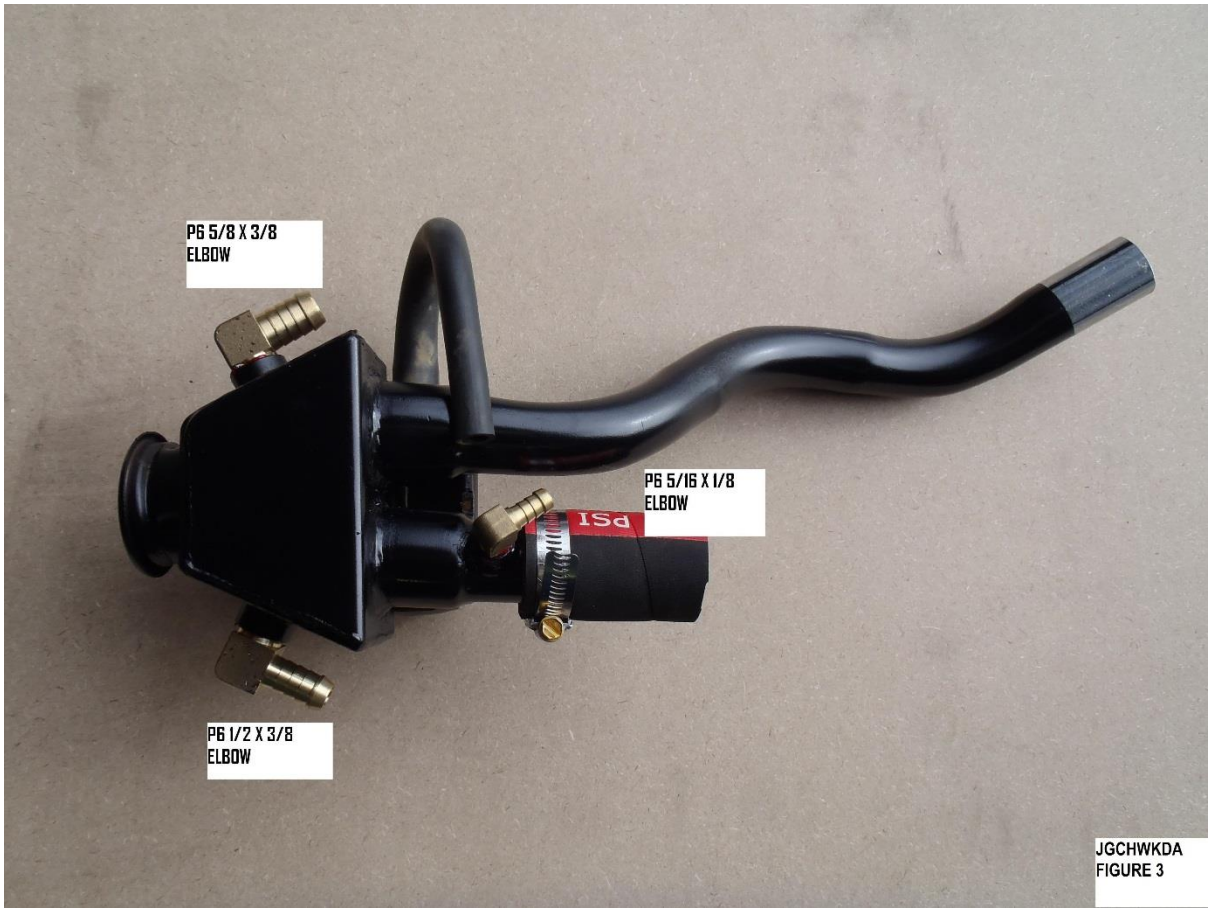
Brass	Electrical
○ 1 x P6 5/16 x 1/8 Elbow ○ 1 x P6 5/16 x 1/4 Elbow ○ 1 x P3 1/2 x 3/8 Straight ○ 1 x P6 1/2 x 3/8 Elbow ○ 1 x P6 5/8 x 3/8 Elbow	○ 1 x CP470GS Switch/Gauge Unit ○ 1 x 3mm Two Core @ 7000mm ○ 1 x 5 AMP Fuse ○ 1 x Fuse Holder ○ 2 x Fuse Holder Terminals ○ 1 x 4mm Single Core Blue @ 300mm ○ 1 x 3/16 x 5/16 Wiring Grommet ○ 1 x Red Insulated Terminal ○ 3 x Red Earth Eye ○ 3 x 3mm Shrink Tube @ 30mm
Bolts / Nuts	**Misc Parts**
○ 2 x M10 x 80mm Bolts ○ 8 x M10 x 25mm Washers ○ 6 x M10 Nyloc Nuts ○ 1 x M12 Fine thread Plain Nut ○ 4 x TEK Screws ○ 2 x 25mm TEK Screws (For Pump)	○ 1 x FNJGCHWKDA Twin Filler ○ 1 x Fuel Cap ○ 1 x FPJGCHWK Fill Pipe ○ 1 x Floor Plate ○ 2 x Secondary Brackets with M10 x 30 bolts welded L/H & R/H ○ 2 x 16mm x 50mm Crush Tubes
Hose Clamps	**Cable Ties**
○ 6 x 1/4 Hose Clamp ○ 2 x 1/2 Hose Clamp ○ 2 x 5/8 Hose Clamp ○ 6 x 11/4 Hose Clamp ○ 1 x 25mm P Clip ○ 1 x 32mm P Clip	○ 5 x 7" ○ 3 x 11"
Hose	**10 Pages Instructions Consisting of:**
○ 1 x 8mm Fuel Hose @ 400mm ○ 1 x 8mm Fuel Hose @ 1350mm ○ 1 x 12mm Fuel Hose @ 1100mm ○ 1 x 16mm NTP Hose @ 400mm ○ 1 x 32mm Fuel Hose @ 70mm ○ 2 x 32mm Fuel Hose @ 90mm ○ 1 x CF16 Conduflex @ 400mm ○ 1 x CF20 Conduflex @ 400mm	○ 2 x Pages Fitting Instructions ○ 1 x Page Fitting Kit Contents ○ 4 x Pages Reference Photos ○ 1 x Page CP470GS Wiring Diagram ○ 1 x Page CP470GS Operation Instructions
Sender	**Filters & Pumps**
○ 1 x 0-90 OHM Sender Unit C/W 700mm Earth	○ 1 x FEP06SV Transfer Pump & Filter ○ 1 x Fuel Pump Mounting Plate

Kit Packed By _____ **Kit Checked By** _____

JGCHWKDA
FIGURE 1



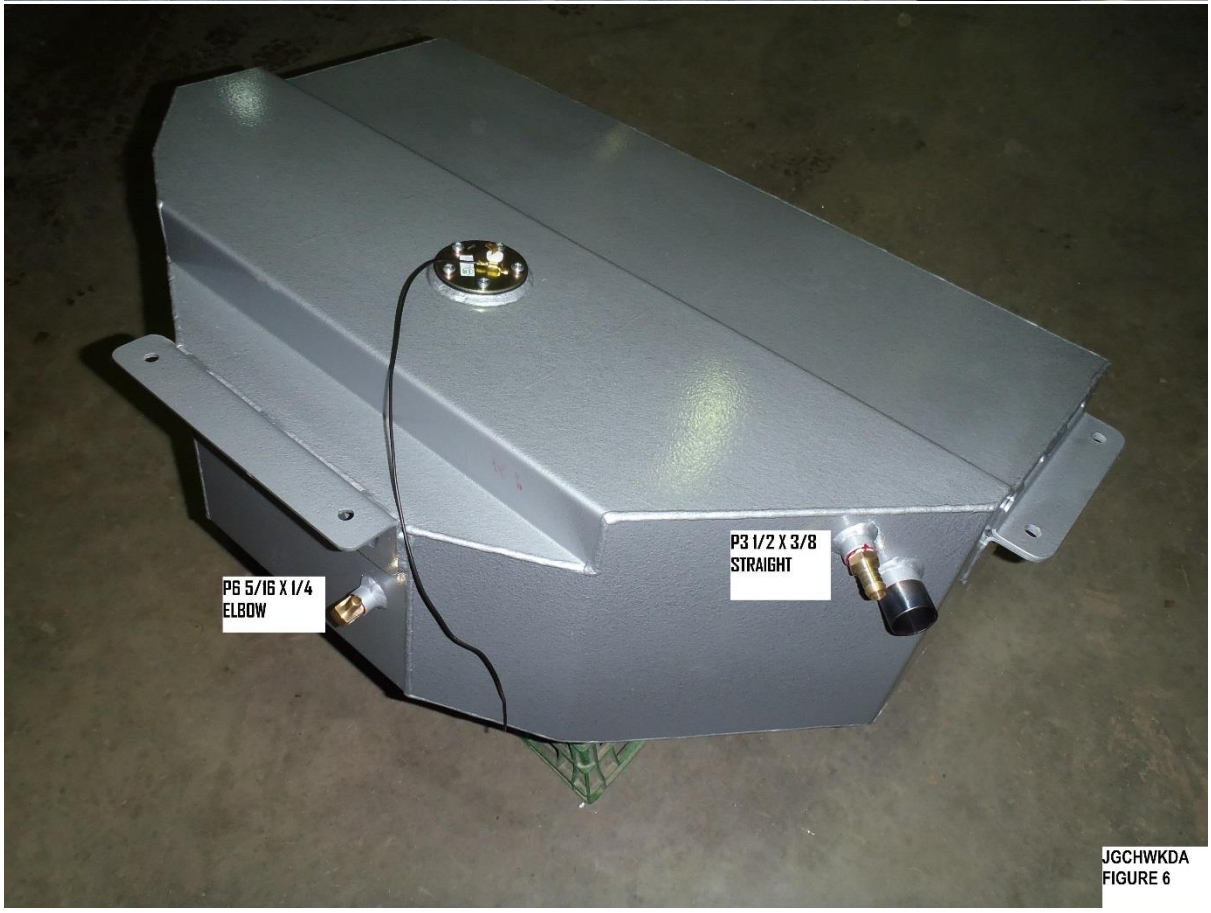
JGCHWKDA
FIGURE 2



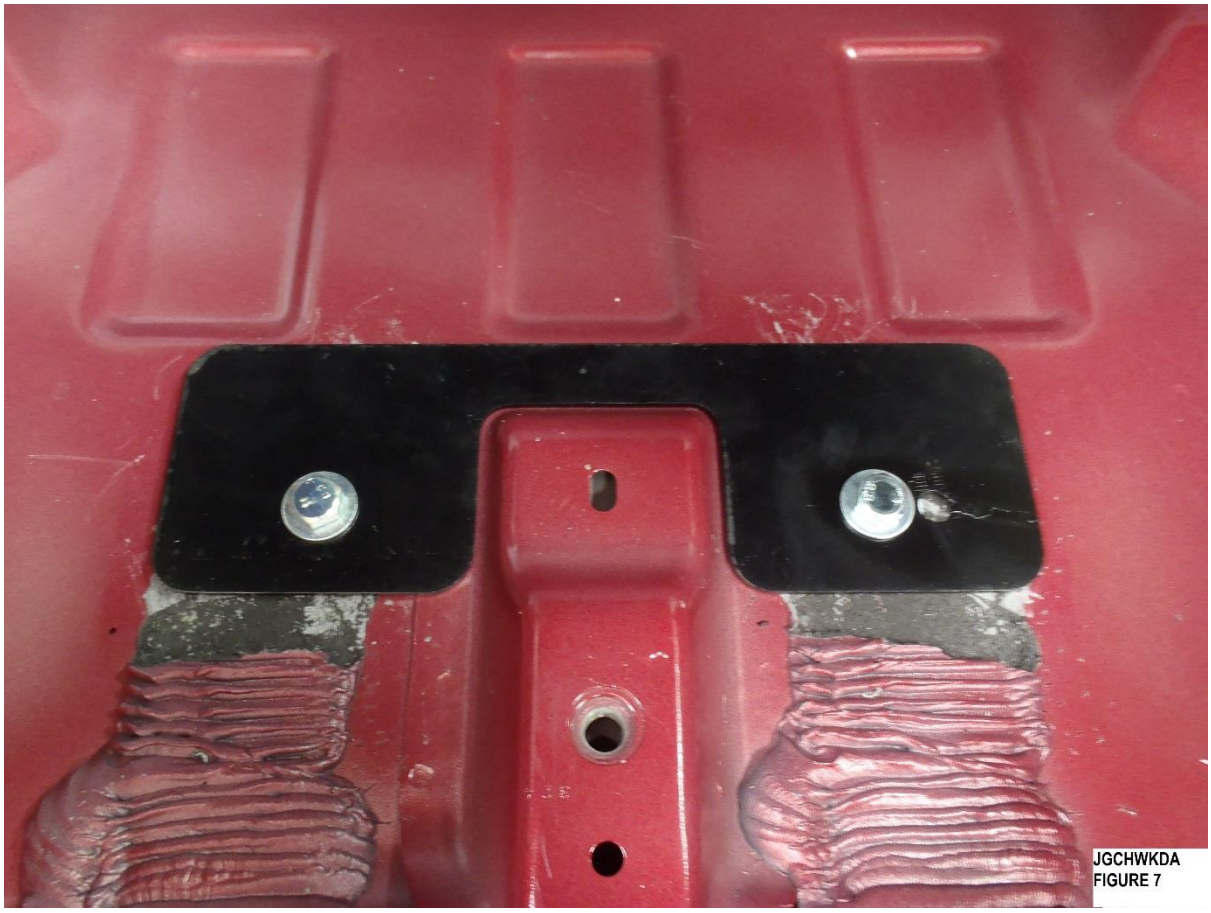
JGCHWKDA
FIGURE 3

JGCHWKDA
FIGURE 4

JGCHWKDA
FIGURE 5



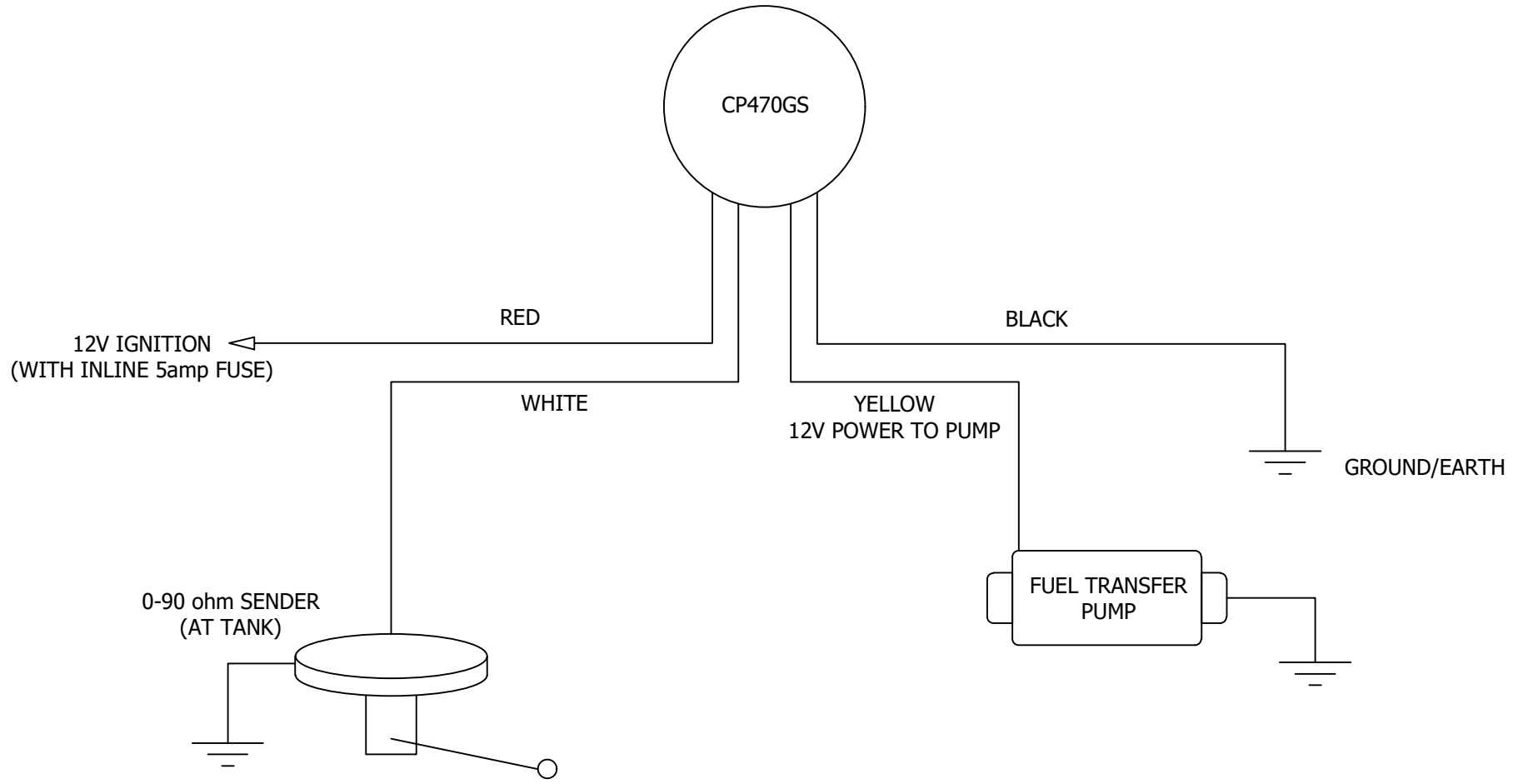
JGCHWKDA
FIGURE 6



JGCHWKDA
FIGURE 7

JGCHWK-PG200

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

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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