Installation Instructions for JWTJA9702
Jeep Wrangler TJ 1996 – 2002 SWB
45LAuxiliary tank

This Auxiliary tank fits up in front of the rear axle assembly on the LHS of the vehicle. Fuel is transferred via and electric pump that will pump fuel from the Auxiliary tank into the OEM tank. Filling the Auxiliary Tank is possible via a new twin filler which replaces the original filler. 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. Remove panel below steering column. Mount switch/gauge into flat section of panel adjacent with ignition switch. Run twin core wire through a suitable grommet in firewall. Local a suitable 12 volt ignition power supply and connect all wires as per diagram, refit dash panel.

2. Remove LH rear mud flap and inner wheel arch liner, remove OEM filler neck, leaving hoses on fuel tank. Cut braided earth strap at OEM filler neck, (this will later be clamped to a new filler). Lift new twin filler up into place and mark holes to be drilled in flange, this new twin filler will be mounted using pan head tech screws (OEM SCREWS WILL BE TOO LONG). Install fittings to new twin filler. P6 5/16x1/4 fitting goes into socket for main tank fill tube, this is the fuel transfer port. The two sockets side by side on the flat face of the filler are the fast hill hoses and fittings P6 5/8x1/4. The remaining socket is for the auxiliary tank vent hose, use P6 1/4x1/4 fitting. Once all fittings have been installed secure twin filler into filler bucket.

3. Loosen OEM tank mounts and allow tank to drop approx. 25mm. Install new steel fill pipe, the end with the 70 degree ben goes to the rear and points up towards the twin filler. The steel fill pipe runs between the top of the rear shocker mount and the fuel tank, this is a tight path but the pipe will fit. Once the pipe is in place re-secure OEM fuel tank. Auxiliary tank fast fill hose, vent hose and transfer hoses can now be run on the same path as the steel fill pipe, all of these hoses will need to be run inboard of the steel pipe. Connect fill pipe and twin filler using 100mm length of 32mm hose, the fast fill hose for the auxiliary tank is connected to the rear fast fill port, the OEM fast fill hose will need to tube extended using the P7 16mm hose joiner and short section of hose supplied.

4. The fuel pump can now be mounted. A good location for this is just behind the wheel arch panel and under the twin filler, this spot provides maximum protection when everything is re-assembled. Install the Roll over valve and grommet in the top of the tank. Fit 1500mm of 6mm hose to this valve. Check gauge sender readings for full and empty, this can be done by inverting the tank. A full reading should be 89-92 OHMS, employ reading should be 0.5-2 OHMS.

5. Remove rear sway bar (this will later be re-fitted). Lift left hand front seat forward and lift up floor coverings to prevent damage when drilling holes. Lift tank up into position, ensure clearance from tail shaft and a small amount of clearance from chassis. Drill holes and secure tank. Connect all remaining hoses and wires, mount fuel filter close to fuel tank to allow easy access. Refit all trim previously removed, fill with fuel and check for leaks.

LONG RANGE AUTOMOTIVE

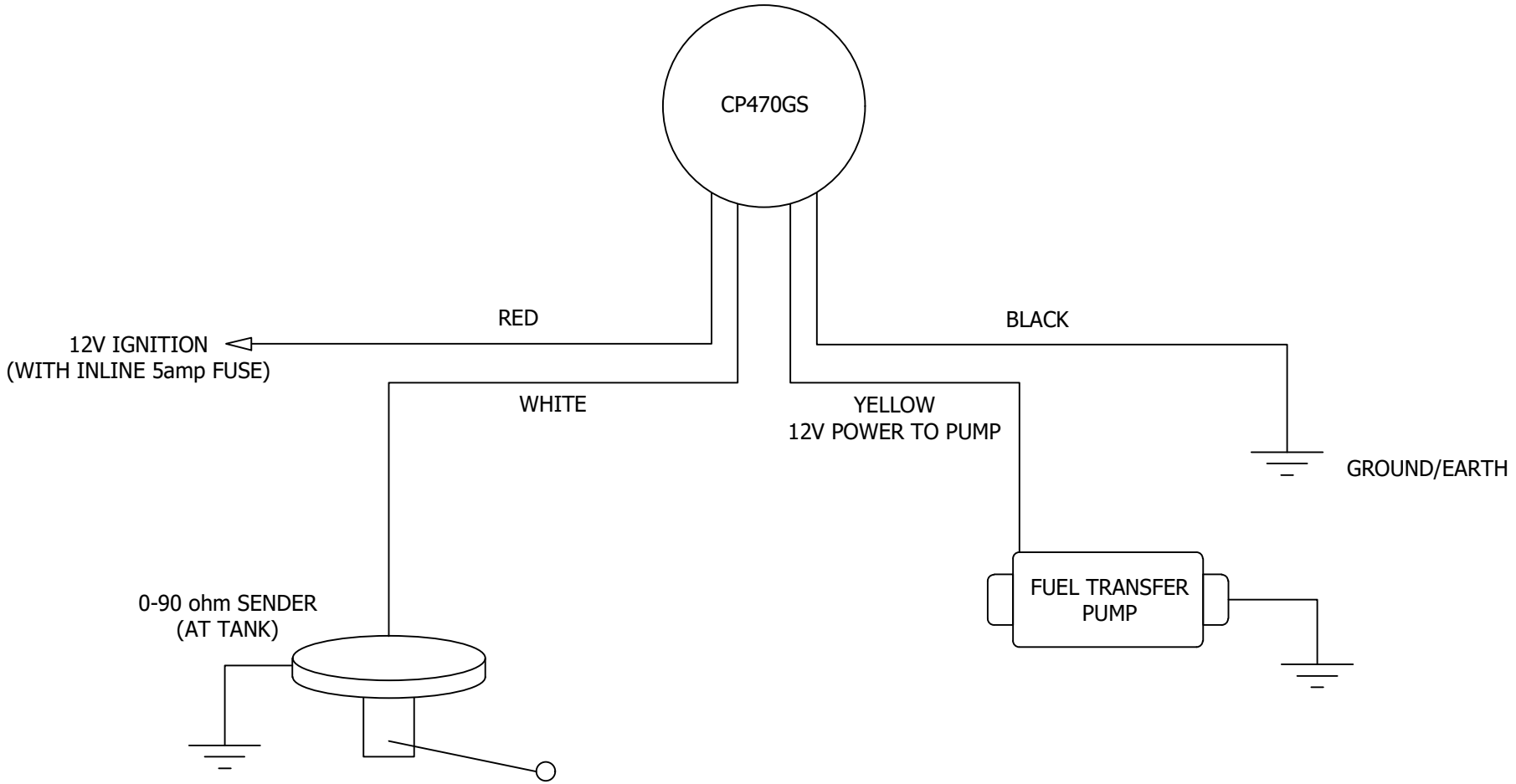
'SINCE 1989'

FITTING KIT CONTENTS JWTJA9702

Brass	Electrical
○ 1 x P6 1/4 X 1/4 Elbow ○ 2 x P6 5/16 x 1/4 Elbows ○ 3 x P6 5/8 x 1/4 Elbows ○ 1 x P7 5/8 Hose Joiner	○ 1 x 3mm Two Core @ 4000mm ○ 1 x Red Insulated Terminal ○ 3 x 6mm Blue Eye Terminals ○ 1 x 3/16 Wiring Grommet ○ 3 x Heat Shrink Tube ○ 1 x CP470GS Switch Gauge Unit
Bolts / Nuts	**Misc Parts**
○ 4 x M10 x 30mm Bolts ○ 4 x M10 x 25mm Washers ○ 4 x M10 Nyloc Nuts ○ 5 x M5 x 10mm Pan Head Screws ○ 5 x m5 Spring Washers ○ 1 x Tek Screws ○ 4 x Pan Head Tek Screws	○ 1 x Locking Fuel Cap ○ 1 x TFJWAUX Twin Filler Neck ○ 1 x FPJWAUX Fill Pipe ○ 1 x J5360058 Roll Over Valve ○ 1 x LRA-FTG Grommet ○ 1 x Hi-Ace Roll Over Valve Installed ○ 1 x 100 x 100 x 3mm Floor Plate ○ 1 x 100 x 80 x 3mm Floor Plate ○ 1 x 200 x 40 x 3mm Floor Plate
Hose Clamps	**Cable Ties**
○ 9 x 1/4 Hose Clamps ○ 5 x 5/8 Hose Clamps ○ 1 x 1”1/2 Hose Clamp ○ 4 x 1”1/4 Hose Clamps ○ 1 x 1” Hose Clamp	○ 4 x 7" Cable Ties ○ 5 x 11" Cable Ties ○ 3 x 14” HD Cable Ties
Hose	**Filters & Pumps**
○ 1 x 6mm Hose @ 1500mm ○ 1 x 8mm Hose @ 1500mm ○ 1 x 16mm NTP Hose @ 1200mm ○ 1 x 16mm NTP Hose @ 150mm ○ 1 x 32mm Hose @ 100mm ○ 1 x 32mm Hose @ 150mm	○ 1 x Fuel Pump
Sender Unit	**5 Pages Instructions Consisting Of**
○ 1 x 0-90 OHM Sender Unit with 400mm Earth	○ 2 x Pages Fitting Instructions ○ 1 x Page Fitting Kit Contents ○ 1 x Page CP470GS Wiring Diagram ○ 1 x Page CP470GS Operation Instructions

Kit Packed By_____ **Checked By** _____

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
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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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