



LONG RANGE AUTOMOTIVE

Installation Instructions for NPGUAX **Nissan Patrol GU Factory Single Tank Model** **75L Auxiliary Tank**

This Auxiliary tank fits forward of the rear axle on the RHS of the drive shaft. 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 LED's will indicate the 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. Carry out the installation of wiring, switch/gauge and pump as per wiring diagram. Also mount the fuel pump in a suitable protected location.
2. Remove the STD filler bucket assembly and using template as a guide cut a 57mm diameter hole in the available space to mount the filler neck for the auxiliary tank, fix in place with 3 x M5 pan head screws, nuts and washers. Note: The filler neck should be positioned with the socket in the 2 o'clock position. Fix the P6 5/8 x 1/4 elbow to socket for the fast fill vent for the auxiliary tank. Slot the front mounting hole for adjustment after shaping the mount strap around the new filler. Refit the filler assembly to the vehicle at the same time putting the 16mmx8mmx6mm double reducing tee into the fast fill vent for the main tank. (8mm side to main tank and 6mm side to filler neck.)
3. Prepare the tank for installation. Fit the roll over valve and the P6 5/16x1/4 elbow to the top of the tank pointing towards the rear, at about the 8 o'clock position and the P6 5/8x1/4 elbow pointing towards and slightly above the filler neck. Fit the 1600mm lengths of 6mm & 8mm hose to the vent and fuel pick up fittings on the top of the tank.
4. Bolt the secondary bracket in place to the captive nut in the chassis on the drive shaft side with the long leg pointing down. The outside rear mounting bracket bolts to a gusset towards the R/H rear of the tank location. This has an 8mm original hole in it which needs to be enlarged to 10.5mm. Lift tank into position, (don't forget to connect sender unit wires) and start the 2 front bolts then the rear outside and inboard mounts. Check all clearances and tighten all mounting bolts.
5. Join the new filler neck to the tank using the 2 steel fill pipe sections and rubber hose sections. Connect 16mm hose from elbow on tank to elbow on new filler neck. The 6mm hose from the roll over valve goes to 6mm branch of the double reducing Tee previously fitted to the main tank fast fill vent hose. Connect the 8mm fuel pick up line from auxiliary tank to the inlet side of the filter. Connect the outlet side of the filter to the inlet side of the transfer pump. Connect the outlet side of the transfer pump to the 8mm branch on the 16mmx8mmx6mm double reducing tee.
6. Neatly cable tie all hoses and wiring. Fill with fuel and check fuel pump operation.



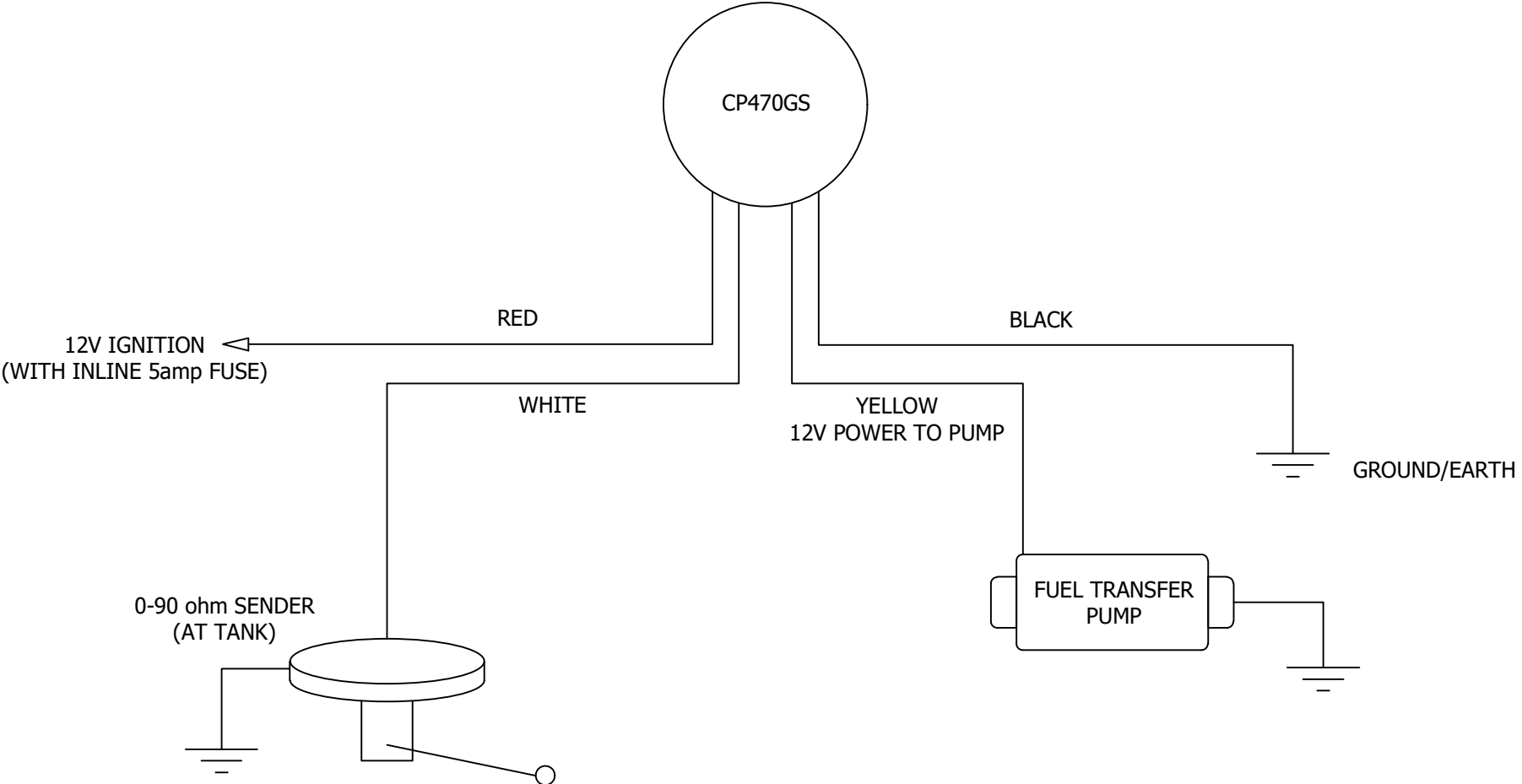
FITTING KIT CONTENTS NPGUAX

Brass: ○ 2 x P6 5/8 x 1/4 Elbow ○ 1 x 16 x 8 x 6mm Double Reducing Tee ○ 1 x P3 5/16 x 1/4 Straight	Electrical: ○ 1 x CP470GS Switch Gauge Unit ○ 1 x 3mm Two Core Wire @ 5000mm ○ 1 x Red Insulation Terminal ○ 2 x 6mm Earth Eye ○ 3 x Heat Shrink Tube @ 30mm
Bolts / Nuts: ○ 5 x M10 x 25 x 1.25 Fine Thread Bolts ○ 2 x M10 Fine Thread Nyloc Nuts ○ 1 x M10 Fine Thread Plain Nut ○ 7 x M10 x 25mm Washers ○ 3 x M5 x 12 Pan Head Screws ○ 3 x M5 Nuts ○ 3 x M5 Flat Washers ○ 3 x M10 Springs ○ 1 x M6 x 20mm Bolt ○ 1 x M6 x 20mm Washer ○ 1 x M6 Spring Washer	Misc Parts: ○ 1 x Steel Fill Pipe - Part #FPGUEXP1 ○ 1 x Steel Fill Pipe - Part #FPGUEXP2 ○ 1 x Steel Filler Neck - Part #FNShort (Diesel/Petrol) ○ 1 x Secondary Bracket ○ 1 x Fuel Cap ○ 1 x Roll Over Valve ○ 1 x LRA-FTG-2 Grommet ○ 1 x FNNPGUAX Mounting Plate (FARLEY CUT)
Hose Clamps: ○ 4 x 1 1/4 Hose Clamps ○ 2 x 1 1/2 Hose Clamps ○ 4 x 5/8 Hose Clamps ○ 8 x 1/4 Hose Clamps	Hose: ○ 1 x 38mm Fuel Hose @ 400mm ○ 1 x 38mm Fuel Hose @ 100mm ○ 1 x 44mm Fuel Hose @ 160mm ○ 1 x 8mm Fuel Hose @ 1600mm ○ 1 x 6mm Fuel Hose @ 1600mm ○ 1 x 16mm CMP Hose @ 1500mm
Pumps & Filters: ○ 1 x Fuel Pump & Filter ○ 1 x Fuel Pump Mounting Plate	Cable Ties: ○ 10 x 7" Cable Ties ○ 5 x 11" Cable Ties ○ 2 x 14" Cable Ties
Sender: ○ 1 x 0-90OHM Sender Unit C/W 700mm Earth, Installed Using: - 5 x M5 x 10mm Pan Heads - 5 x M5 Spring Washers	5 Pages of Fitting Instructions Consisting of: ○ 1 x Pages Fitting Instructions ○ 2 x Pages 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 -	

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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

LRA Australia Pty Ltd
23 INDUSTRY COURT, LILYDALE VIC 3140
Ph: 03 9739 5667
ABN: 84 691 699 751

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