



Installation Instructions for NPATR51A (D) Nissan Pathfinder R51 Diesel 120L Auxiliary Tank

This auxiliary tank fits under the rear of the vehicle and takes the place of the spare wheel. 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 in the dash to mount the switch/gauge unit. We suggest 24mm to the left of the mirror control from the LH edge. A 12V ignition source can be found at the back of the ignition barrel (red wire). Complete the wiring as per diagram and run the twin core sheathed cable to the rear of the vehicle.
2. Remove the spare wheel and unbolt the wheel winch. Unbolt the front tyre support bracket. Unclip the wiring from the top of the rear suspension crossmember. Place the new front secondary tank mounting bracket and locate with 1 x M6 Bolt previously removed from the tyre support bracket. Clamp bracket in position and drill the two outside holes on the top of the crossmember. You need a short right angle drill for this or drill a small hole to mark the position and then drill up from the underside with a long drill. Bolt in place with M10 x 30mm bolts with strap attached M10 x 25mm washers' spring washers and plain nuts. Ensure that the strap on the bolt does not foul on the suspension arm! Reclip the wiring in position.
3. Unbolt the two rear towbar mounting bolts and refit with the two new rear crossmember mounting stumps. **Note:** If the vehicle has the KAYMAR bar and the two cross member mounting stumps are not required, bolt angle crossmember in position with M10 x 30mm bolts, washers and Nyloc nuts. (Use the 2 x 30mm large washers on the LHS).

4. Remove LH rear splash shield. Disconnect the fast fill and filler hoses from the filler neck. Blank off the tank end of these pipes and cut the original filler neck and fast fill pipes 30mm above the mounting bracket. (**Note:** It is virtually impossible to get the filler neck assembly out in one piece). Ensure to file any sharp edges/bars from filler pipe and refit tank end section to vehicle.
5. Screw brass fittings into the new filler neck; 2 x P6 5/8 x 3/8 elbows into the top of the neck pointing in the same direction as the fill pipes. 1 x P6 5/16 x 1/8 elbow into the short (main tank) leg of the filler. This becomes the port for the transfer pump to pump into the main tank. Fit the new twin filler in position with 38mm & 35mm hoses and original mounting rubber. You will need to drill a new mounting hole for the original fill pipe mount, forward of the original. Secure with original bolt and new M6 Nyloc nut and washer.
6. Screw the two remaining brass fittings into the tank. P3 5/8 x 3/8 straight rear to the filler and P6 5/16 x 1/4 elbow into the pick-up in the front of the tank. Pointing out to left hand side. Connect sender unit and earth wire and lift tank into position. Secure with Nyloc nuts and washers.
7. Mount the fuel transfer pump. We suggest mounting it to the inner panel below and to the rear of the filler. Complete connection of all remaining hoses and fuel transfer line. Neatly cable tie all hoses and wiring. Replace splash shield. Fill with fuel and check operation.



FITTING KIT CONTENTS NPATR51A(D)

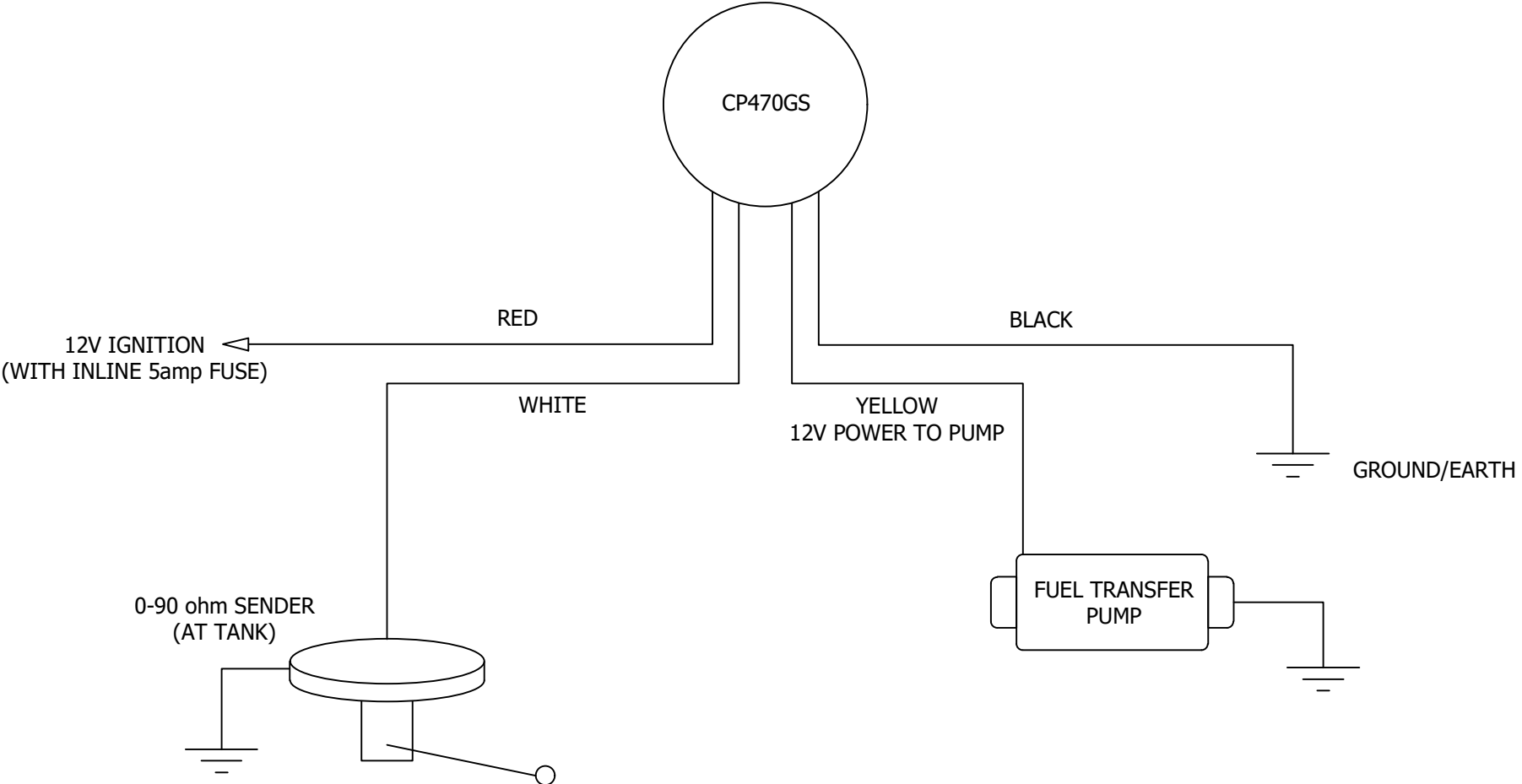
Brass:	Electrical:
○ 1 x P6 5/16 x 1/4 Elbow ○ 2 x P6 5/8 x 3/8 Elbows ○ 1 x P6 5/16 x 1/8 Elbow ○ 1 x P3 5/8 x 3/8 Straight	○ 1 x CP470GS Switch/Gauge Unit ○ 1 x 3mm Two Core @ 7m ○ 1 x Red Plain Terminal ○ 1 x 5mm Red Eye Terminal ○ 1 x 6mm Blue Eye Terminal ○ 3 x Heat Shrink Tube @ 25mm
Bolts / Nuts:	Misc Parts:
○ 4 x M10 x 30 Bolts ○ 16 x M10 x 25 Flat Washers ○ 2 x M10 Spring Washers ○ 10 x M10 Nyloc Nuts ○ 2 x M10 Plain Nuts ○ 1 x M6 Nyloc ○ 1 x M6 x 20 Washer ○ 1 x TEK Screw ○ 2 x M14 x 5mm Washer @30mm (Profile Cut)	○ 1 x Twin Filler Neck ○ 1 x 50 x 50 x 5 angle @ 937mm long with M10 x 30 welded ○ 1 x Front Secondary Bracket with 2 x M10 x 30 welded ○ 1 x 38mm 90° with 40mm Straight Pipe Both Ends ○ 2 x Rear Crossmember Stumps – L & R ○ 2 x M10 x 30mm Bolts with 250mm straps
Hose Clamps:	Hose:
○ 6 x 1/4" Hose Clamps ○ 4 x 5/8" Hose Clamps ○ 6 x 1 1/4" Hose Clamps	○ 1 x 8mm Hose @ 650mm ○ 1 x 8mm Hose @ 900mm ○ 1 x 6mm Conduflex @ 500mm ○ 2 x 38mm Hose @ 90mm ○ 1 x 16mm NTP Hose @ 230mm ○ 1 x 16mm NTP Hose @ 600mm ○ 1 x 35mm fuel Hose @ 80mm
Pumps & Filters:	Cable Ties:
○ 1 x Fuel Pump & Filter ○ 1 x Fuel Pump Mounting Plate	○ 25 x 7" Cable ties

Sender:	5 Pages of Fitting Instructions Consisting of:
○ 1 x 0-90 OHM Fuel Sender Unit C/W 500mm earth, Installed Using: - 5 x M5 x 10 Pan Heads - 5 x M5 Spring Washers	○ 2 x Page 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 -	

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

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

4WD REPLACEMENT & AUXILIARY TANKS · MODIFIED FUEL TANKS · FUEL TANK REPAIRS