



Installation Instructions for NPATRA98
Nissan Pathfinder 98+
105L Auxiliary Tank

This auxiliary tank fits up under the rear of the vehicle and uses the space that the spare wheel mounts in. Because the auxiliary fuel tank uses the space allocated to the spare wheel, a wheel carrier will need to be installed. We recommend the Kaymar wheel carrier or if no carrier is fitted at all, then secure the spare wheel inside the vehicle with a suitable anchoring device. Filling of the tank is via a new twin filler neck that replaces the OEM filler. 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 an **ORANGE** 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 flashing showing empty.

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

1. Remove one of the available switch blanks from the dash, remove RH front and rear scuff panels and front kick panel, lift lower sections of rear seats and locate inspection cover under LHR seat. Run twin core wire from RH kick panel area under the edge of the floor covering and down through the wiring grommet in the inspection cover. Install the switch/gauge into dash and run wiring loom to RH kick panel area, connect all wires as per diagram and refit all trim, etc. and previously removed.
2. Remove LHR wheel, remove plastic cover from inside wheel arch. Refer to diagram, mark fast-fill and fill pipes as shown, remove fill pipe assembly and cut both pipes. File cuts smooth to enable fitting 70mm length of 35mm fuel hose. Install new twin filler into grommet and secure using 20 x 3 x 80 strap, this strap will need to be twisted and bent slightly to retain the correct fit. Refit the OEM filler pipe.

3. Mount transfer pump in a suitable protected location under the vehicle. Cut a 44mm hole in pan hard bar tower as shown in drawing (this is to allow installing of bolt later). Install all brass fittings to sockets in tank as follows:

P3 5/16 x 1/8 - In Main Tank Fill Pipe

P3 5/16 x 1/4 - In Front of Tank

P3 5/8 x 1/4 - In Fitting Next to Filler

P3 1/4 x 1/8 - In Fitting on Top of Tank Expansion Box

P6 5/8 x 1/4 - x 2 Are for Twin Filler Assembly

P6 1/4 x 1/4 - In Top of Twin Filler

4. Install and test gauge sender if not already fitted, OHMS reading should be 0-2 @ **EMPTY** and 89-92 @ **FULL** Install 1000mm of 6mm vent hose and 700mm of 16mm fast fill hose to tank and lift tank up almost into position, connect gauge sender and earth wire, feed fast fill and vent hoses through triangular shaped opening, lift tank all the way home. Secure tank using nuts and bolts provided, a 10mm hole will need to be drilled in the pan hard bar tower and the M10 x 30 bolt with strap welded on can be fed through the 44mm hole previously mentioned.
5. Install auxiliary tank intermediate fill pipe and connect all other hoses, connect fuel pick up to the in line filter and inlet side of pump. Outlet side of pump goes to the P3 5/16 x 1/8 fitting in the main tank fill pipe. 6mm vent hose from the expansion box on the tank goes to the P6 1/4 x 1/8 elbow in the top of the filler neck. 600mm length of 16mm hose is for the main tank fast fill vent and the 700mm length is for the aux tank fast fill vent. Trim plastic wheel arch cover and refit over fill pipes, ensure all tank mounting bolts are tight. Refit any trim, etc., previously removed neatly cable tie any wires/hoses away from any moving parts or heat sources, fill with fuel and check for leaks, also check gauge and transfer pump operation.



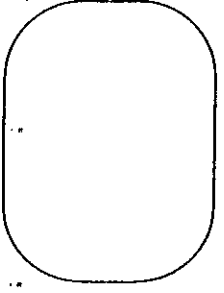
FITTING KIT CONTENTS NPATRA98

Brass: <ul style="list-style-type: none"> ○ 1 x P3 5/16 x 1/4 Straight ○ 1 x P3 5/8 x 1/4 Straight ○ 2 x P6 5/8 x 1/4 Elbow ○ 1 x P3 1/4 x 1/8 Straight ○ 1 x P6 1/4 x 1/8 ○ 1 x P3 5/16 x 1/8 	Electrical: <ul style="list-style-type: none"> ○ 1 x LRA-PG210 Combination Switch/Gauge ○ 1 x 3mm Two Core Wire @ 5000mm ○ 2 x Red Terminals ○ 1 x 6mm Blue Eye Terminal ○ 1 x 8mm Blue Eye Terminal ○ 2 x Red Male Terminal ○ 4 x 3mm Heat Shrink @ 25mm
Bolts / Nuts: <ul style="list-style-type: none"> ○ 2 x M8 x 25 Bolts ○ 2 x M8 x 45 Bolts ○ 4 x M8 Flat Washers ○ 4 x M8 Spring ○ 3 x M10 Flat Washers ○ 2 x M10 x 30 Bolt With Strap @ 250mm Welded On ○ 1 x M10x30 Bolt With Strap @ 350mm Welded On ○ 3 x M10 Nyloc Nuts ○ 1 x M6 x 20 Bolt ○ 1 x M6 Nut ○ 2 x M6 Flat Washers ○ 5 x M5 x 10 Pan Head Screws 	Misc Parts: <ul style="list-style-type: none"> ○ 1 x Strap 20 x 3 x 80 With 8mm in 10mm From Each End ○ 1 x Fill Pipe #FPNPFAUX01 ○ 1 x Fill Pipe #FPNPFAUX02 (With 1/8 Socket Welded) ○ 1 x Twin Filler Neck
Hose Clamps: <ul style="list-style-type: none"> ○ 8 x 1/4" Hose Clamps ○ 4 x 5/8" Hose Clamps ○ 6 x 1 1/2" Hose Clamps ○ 2 x 1 1/4" Hose Clamps 	Cable Ties: <ul style="list-style-type: none"> ○ 4 x 7" Cable Ties ○ 6 x 11" Cable Ties
Sender: <ul style="list-style-type: none"> ○ 1 x 0-90 OHM Sender with 500mm Black Earth Wire Soldered On & Set Up in Tank 	Pumps & Filters: <ul style="list-style-type: none"> ○ 1 x Z14K Filter ○ 1 x Fuel Pump

Hose:	6 Pages of Fitting Instructions Consisting of:
<ul style="list-style-type: none">○ 1 x 6mm Hose @ 1000mm○ 1 x 8mm Hose @ 300mm○ 1 x 8mm Hose @ 600mm○ 3 x 38mm Hose @ 100mm○ 1 x 16mm NTP Hose @ 600mm○ 1 x 16mm NTP Hose @ 700mm○ 1 x 35mm Hose @ 70mm	<ul style="list-style-type: none">○ 2 x Pages Fitting Instructions○ 2 x Pages Fitting Kit Contents○ 1 x Page INNPATRA Diagram○ 1 x Page WDSGP210 Diagram

Kit Packed By _____

Checked By _____



CUT PIPES AS SHOWN USING
BRACKET IN WHEEL ARCH AS A DATAM
POINT

140MM

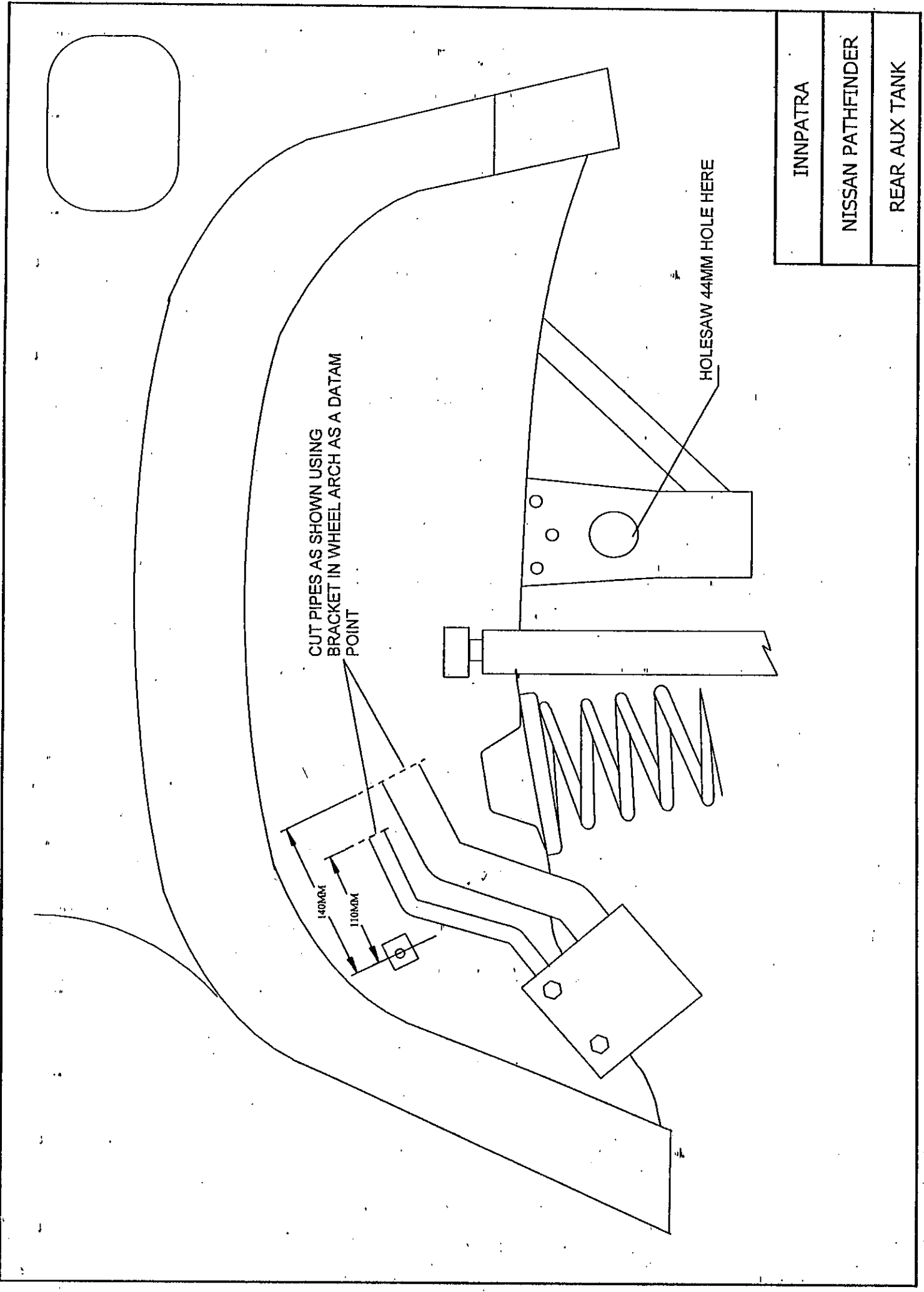
110MM

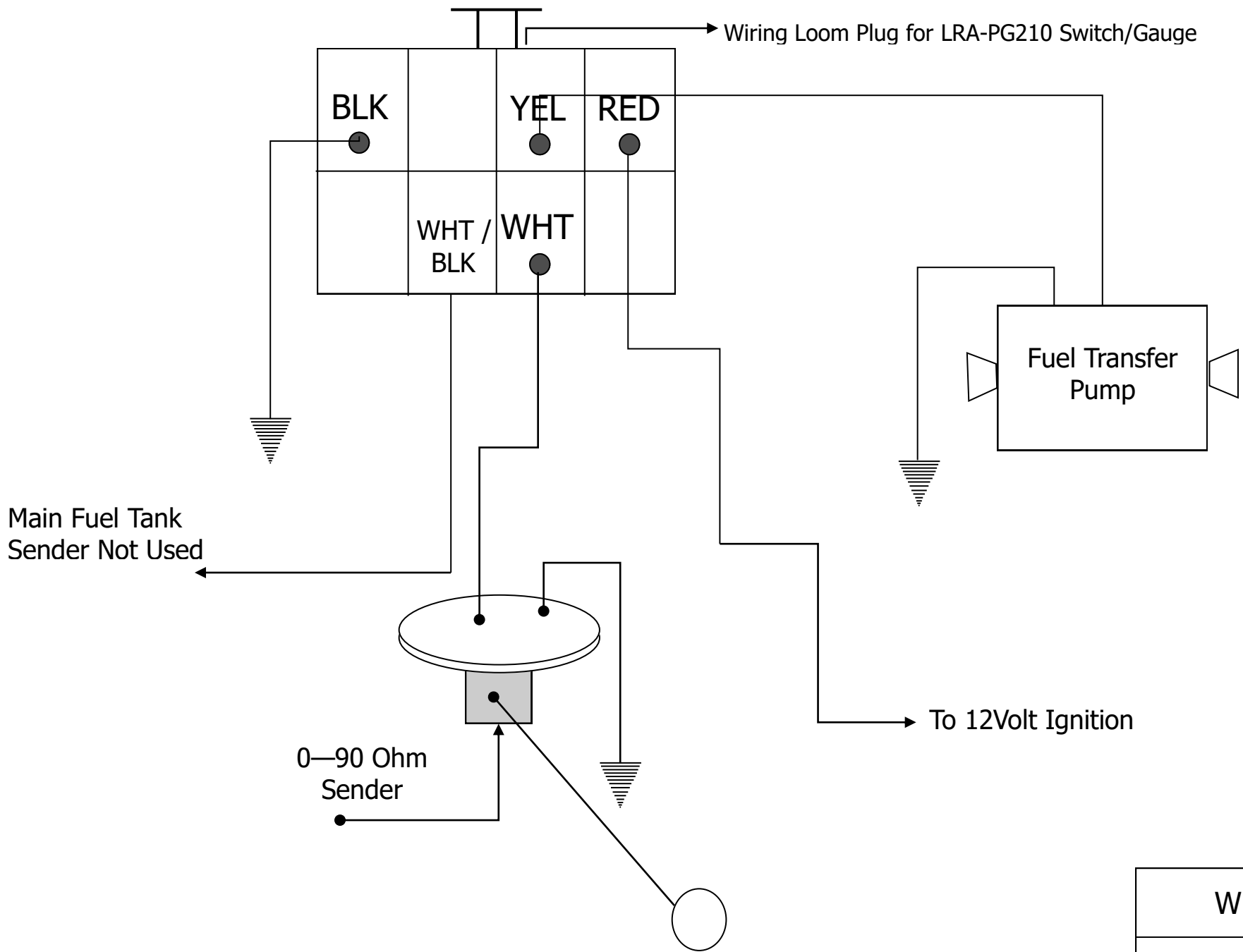
HOLESAW 44MM HOLE HERE

INNIPATRA

NISSAN PATHFINDER

REAR AUX TANK





WDSGPG210