

NISSAN Patrol 3.0 Litre Common Rail

Direction-Plus™ Pre-Line Plus pre-filter Kit Installation Guide

This document is to be used as a guide for the installation of the Direction-Plus™ PL150DP Pre-Line Plus Kit to a Patrol 3.0L Common Rail. It is recommended that the installation of the product be carried out by a competent qualified mechanic.

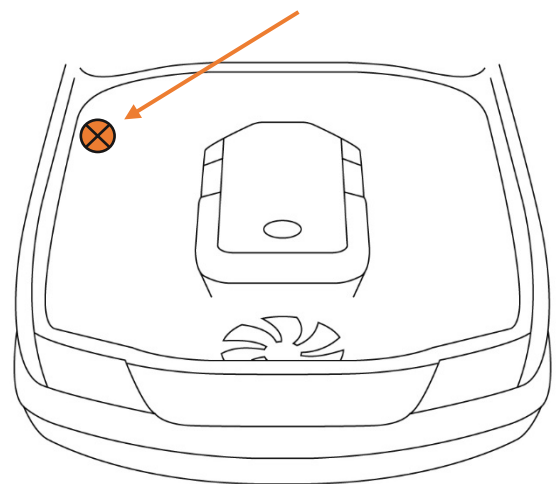
Important before starting

- Ensure the engine bay is clean and free from contaminates
- The fuel manager filter head has direction arrows indicating the direction of flow
- You have the correct tools to complete the fitment
- Read the instructions in full and familiarize yourself with the installation, before commencing any work

Kit contents

M16x1.5 ADAPTER - 10MM	2
M16 FLAT WASHER	2
M10 - 2 BOLTS 2 NUTS 4 WASHERS	1
M6 SPRING WASHER	2
M8 SPRING WASHER	2
M6x12 BOLT	1
M8x16 BOLT	1
PL150 MOUNTING BRACKET	1
10MM FUEL LINE	2
WATER ALARM KIT	1
PL150DP	1
ENGINE BAY LABEL	1
HOSE CLAMP - 10MM	2
PUSH ON STRAIGHT FITTING - 10MM	2
WASHER - 6MM	2
WINDSCREEN LABEL	1
WATER ALARM KIT	1

Pre-filter mounting location



*Kit contents are subject to change based on component availability and/or refinement

Installation Guide

1. Begin by bolting the new bracket to the driver's side, just behind the fuse box. There are two factory unused threaded holes for the bracket to mount to. The top one uses the M6x12 bolt and spring washer, the bottom one uses the M8x16 Socket cap and spring washer.



Rear drivers side of engine bay, looking from front of engine bay back

2. Bolt the fuel filter assembly into place, using the M10x30mm bolts and nyloc nuts, making sure to use a flat washer under each bolt head and nut. Adjust the position of the fuel filter assembly to make sure there is clearance from the A/C line and the wiring harness. Once you are happy with the location, tighten the bolts and nuts to retain in place.
3. Fit the two M16x1.5 adapters and M16 flat washers to the PL150 head so that they face towards the rear of the car. **You may need to remove and reposition the existing blanking plugs**
4. Disconnect the fuel supply line to the factory fuel filter and remove the hose completely. Run the new hose from the rigid fuel supply line to the inlet port on the PreLine 150 and cut to length. Use a 12-20mm clamp to secure in place at the factor fuel line.
5. Lubricate the barbed end of the push-lock fittings and the inside portion of the hose to be fitted with a push-lock fitting with diesel fuel or WD40.
6. Insert the barbed end of one (1) of the push-lock fittings into the pre-lubricated end of the hose. Ensuring that the hose is firmly stopped against the inside of the bell cover.
7. Paying attention to the directional arrows, attach the assembled fuel supply hose to the inlet of the PL150
8. Connect the remaining fuel hose to the inlet side of the factory fuel filter and secure with a hose clamp.
9. Route the fuel hose to the outlet side of the PL150 and cut to length.
10. Lubricate the barbed end of the push-lock fittings and the inside portion of the hose to be fitted with a push-lock fitting with diesel fuel or WD40
11. Insert the barbed end of one (1) of the push-lock fittings into the pre-lubricated end of the hose. Ensuring that the hose is firmly stopped against the inside of the bell cover.



12. Paying attention to the directional arrows, attach the assembled fuel supply hose to the outlet of the PL150
13. Using the manual priming pump on the top of the factory fuel filter, pump until firm.
14. Once complete start the vehicle, carefully and thoroughly checking for leaks
15. Run the vehicle for at least 20 minutes to ensure there are no air pockets in the fuel system. You may need to repeat number 13 if the engine stalls.

END OF GUIDE

REFER TO WATER ALARM INSTRUCTION FOR FITMENT OF THE WATER ALARM