

## Direction-Plus Ryco Universal Pre-Filter Kit Installation Guide

This document is to be used as a guide for the installation of the Direction-Plus™ Universal Ryco Pre-filter Kit. 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 contaminants
- The 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

### Maintenance / Servicing

- It is recommended to drain the element every 5,000 – 10,000km
- Ryco filter element is to be replaced every 40,000km or as per your vehicles service interval

### Included in the kit:



1x RYCO ASSY (Z9805K16L)	1x WINDSCREEN LABEL (DPLABEL1)
1x UNIVERSAL BKT (UNI-BR)	1x ENGINE BAY LABEL (DPLABEL5)
2x FITTING STRAIGHT - 12MM (DP816-8-M1615)	1x DP STICKER (DPLABEL6)
2x PUSH ON STRAIGHT - 12MM (DPP0001-08)	1x DEFENCE STICKER (DPLABEL7)
2x PUSH ON 90 DEG - 12MM (DPP0090-08)	1x DP BAG (DPBAG)
2m 12MM HOSE (DPFH12-GAT)	1x RYCO FILTER KIT BOX (RCBOX)
2x FMC12 - CLAMP 12MM (FMC12)	1x DP HOLO SECURITY SEAL (DPLABEL8)
9x CABLE TIE (802078)	1x DP ZIP LOCK BAG (DPZIPBAG)

### Tools Needed:

- Spanners
- Sockets
- Screw Drivers
- Pliers
- Snips/Cutter
- Rags
- Small container for priming
- We suggest using a thread sealant like Loctite 567 or equivalent.

### Installation Guide

1. Find a suitable location to mount the Ryco assembly. You want to keep it as close to the factory filter as practically possible
2. Using the supplied 10mm bolts, washers and nuts, mount the universal bracket and the Ryco assembly.
3. Establish which push-lock fuel fittings are required (straight or 90deg).
4. Install the fuel fittings/ adaptors and plugs into the filter head ports using LOCTITE thread sealant or similar.
5. Disconnect factory fuel filter inlet hose from both ends and completely remove from the vehicle. Retain this hose in a safe place so the vehicle can be returned to factory in the future
6. Measure from the pipe/hose that comes from the fuel tank to the inlet port of the RYCO head (the arrows on the head indicate direction of flow) and cut to length a piece of the supplied 12mm hose



7. Lubricate the barbed end of one push-lock fitting and the inside portion of the hose to be fitted with a push-lock fitting with diesel fuel or WD40



8. Insert the barbed end of one push-lock fittings into the pre-lubricated end of the hose. Ensuring that the hose stops firmly against the inside of the bell cover.
9. With the assembled hose, screw the push-lock fitting on to the inlet port of the pre-filter. Connect the other end of the same hose to the steel fuel line coming from the tank and secure using a supplied hose clamp
10. Lubricate the barbed end of the remaining push-lock fitting and the inside portion of the remaining hose to be fitted with a push-lock fitting with diesel fuel or WD40
11. Insert the barbed end of the remaining push-lock fittings into the pre-lubricated end of the hose. Ensuring that the hose stops firmly against the inside of the bell cover.
12. With the now assembled hose, screw the push-lock fitting on to the outlet port of the pre-filter.
13. Measuring the hose in place between the outlet port of pre-filter and the inlet of the factory fuel filter, cut the hose to length
14. Connect the 12mm fuel hose to the inlet of the factory fuel filter and secure with a supplied hose clamp
15. Prime the fuel system as per the vehicle manufactures service manual
16. Start vehicle and run the vehicle, whilst checking all connections for leaks

## End of Installation Guide