

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

### For Toyota Prado 150 Series

This document is to be used as a guide for the installation of the **Direction-Plus™ Ryco pre-filter Kit (RC620DPK)** to a **Toyota Prado 150 1KD-FTV / 1GD**. 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

#### Kit contents



1x LC150 BRACKET (PL620-BR)	1x ENGINE BAY LABEL (DPLABEL5)	2m DFL10 - FUEL HOSE (DPFH10)
1x RYCO ASSY (Z980SK16L)	1x DP STICKER (DPLABEL6)	1x M8 BOLT 304 8X25 (SSSS304M825)
2x PUSH ON 90 DEG (DPP0090-06)	1x DEFENCE STICKER (DPLABEL7)	1x NYLOC NUT M8 (FMN8)
2x FITTING 10MM (DP816-6-M1615)	2x DP BAGS (DPBAG)	2x 8MM X 17MM (FMW8)
1x WINDSCREEN LABEL (DPLABEL1)	2x HOSE CLAMP (FMC10)	1x DP ZIP LOCK BAG (DPZIPBAG)
1x DP HOLO SECURITY SEAL (DPLABEL8)	9x CABLE TIE (802078)	1x RYCO FILTER KIT BOX (RCBOX)

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

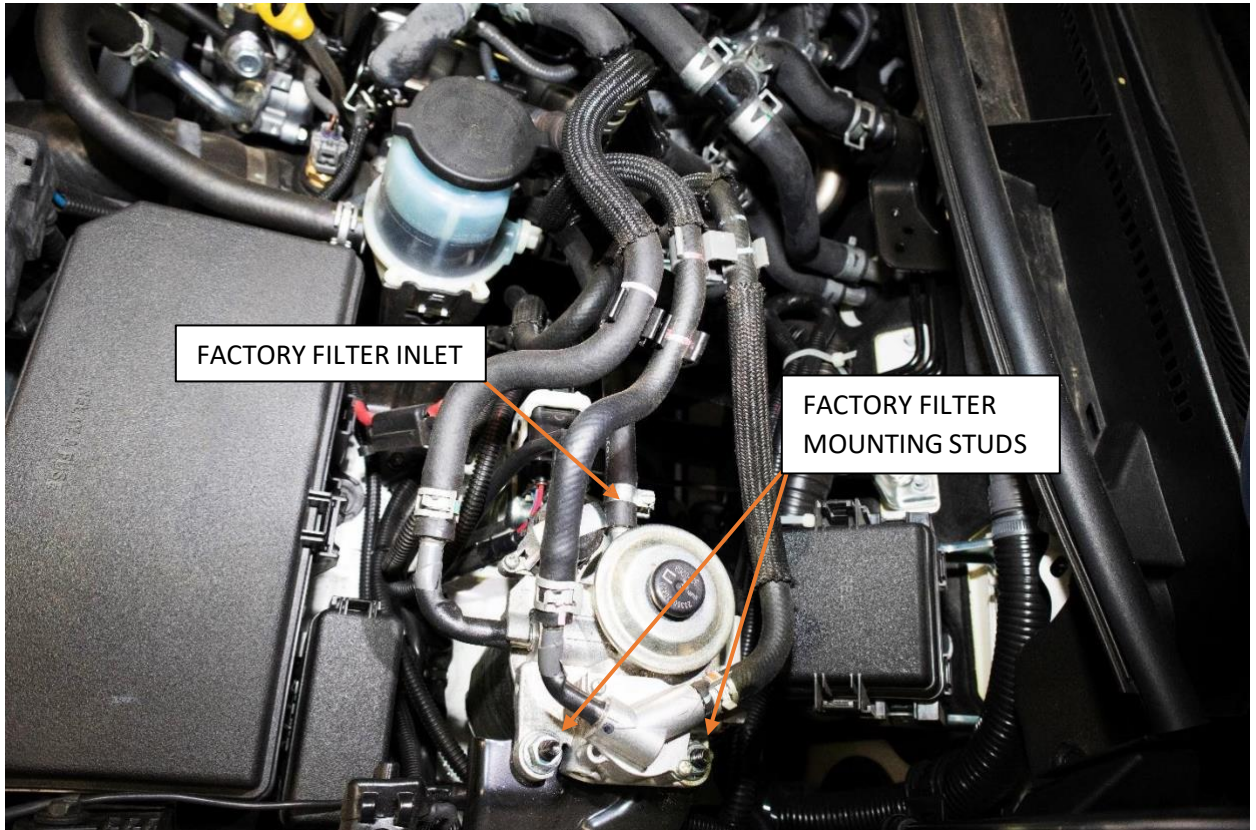


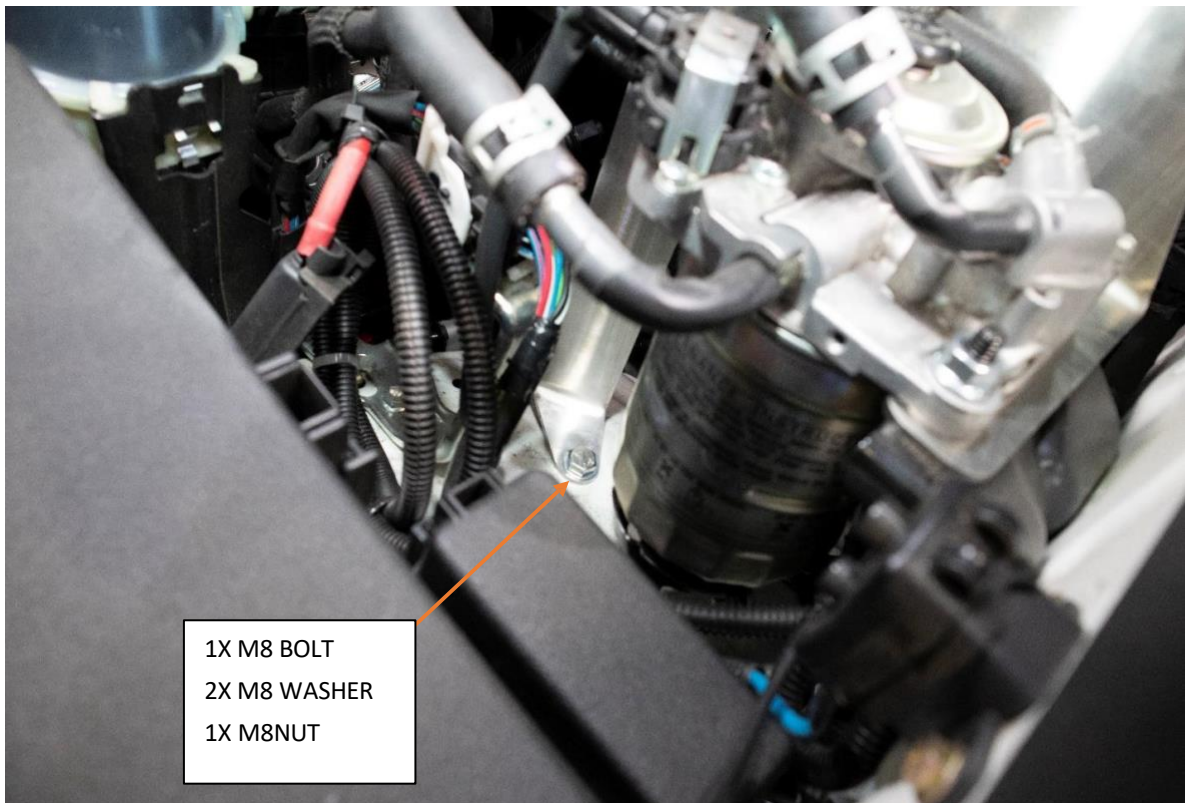
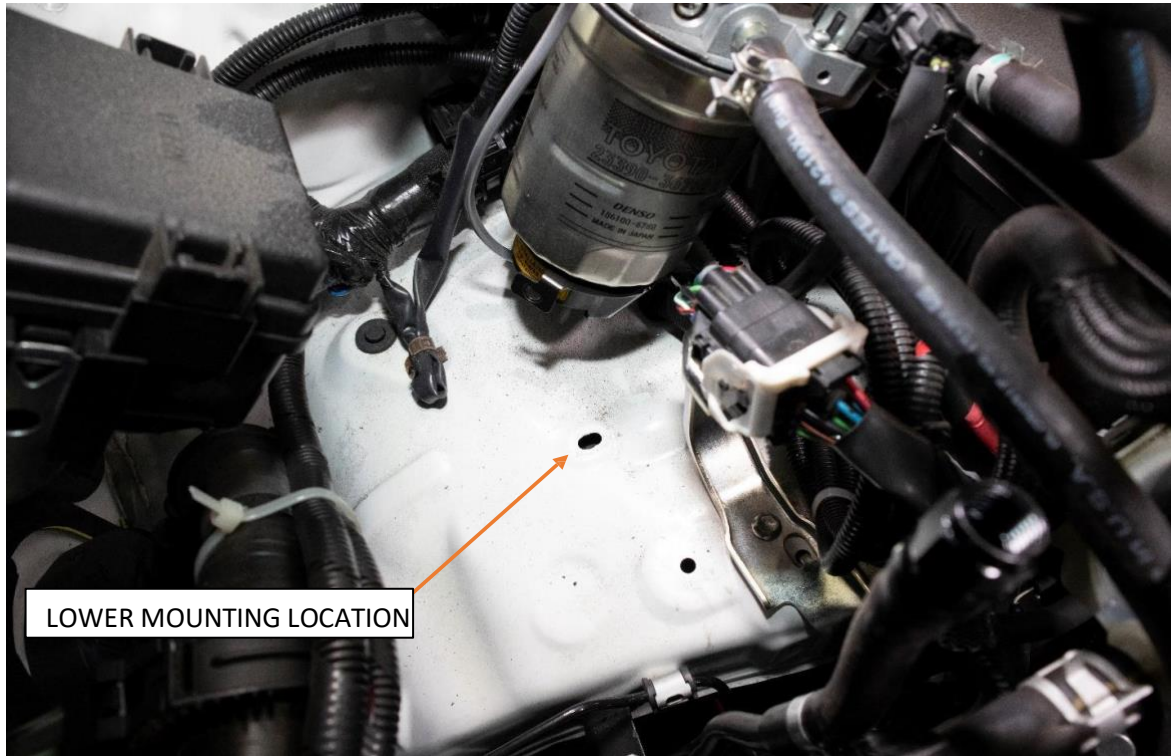
**Tools Needed:**

- 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. Disconnect factory fuel filter inlet hose from both ends and remove from the vehicle. Retain this hose in a safe place so the vehicle can be returned to factory in the future.
2. Remove the two retaining nuts from the top of the factory filter housing.
3. Place the pre-filter mounting bracket into its mounting location, sandwiched between the factory fuel filter and the factory fuel filter mounting bracket.





4. Use the M6x25 bolt, washers and nut to secure the lower part of the mounting bracket to the inner guard
5. Using the M16 flat washer, fit the M16 90° fittings to the head so that when fitted they are facing towards the engine. **Note: you may need to remove and reposition the two M16 plugs pre-installed into the filter head.**



6. Using the supplied 10mm bolts, washers and nuts, mount the RYCO pre-filter assembly filter to the back side of the bracket
7. Measure from the steel pipe on the firewall (this pipe comes from the 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 10mm hose
8. 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
9. 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.
10. 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 10mm hose clamp
11. 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



12. 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.
13. With the now assembled hose, screw the push-lock fitting on to the outlet port of the pre-filter.
14. Measuring the hose in place between the outlet port of pre-filter the inlet of the factory fuel filter, cut the hose to length
15. Connect the 10mm fuel hose to the inlet of the factory fuel filter and secure with a supplied 10mm hose clamp
16. Using the supplied nylon cable ties, secure any loose hose from rubbing on any other components
17. Bleed the fuel system by pumping the hand primer on the factory filter until firm
18. Start vehicle and run the vehicle, whilst checking all connections for leaks
19. Refer to supplementary instruction for water alarm connection

**END OF INSTALLATION**