

Direction Plus Ryco Pre-filter Kit Installation Guide for Land Cruiser 70 series

This document is to be used as a guide for the installation of the **Direction Plus Ryco pre-filter kit (RC642DPK)** to a **2018-2022 Toyota Land Cruiser 70 Series V8 Diesel (1VD-FTV)**. *It is recommended that the installation of the product be carried out by a competent qualified mechanic.*

Important Before Starting

- Ensure 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



1 x Mounting Bracket	8 x Cable Ties
1 x M8 Flat Washers	1x Ryco Pre-Filter
2x M10 Bolts	4x M10 Washers
2X M10 Nyloc Nuts	2x M6x16 Bolts
4x M6 Flat Washers	2x M6 Nyloc Nuts

2x M16 Straight Adapters	2x M16 Alloy Washers
2x 12mm Straight Push Lock Hose Fitting	1x 4m Length of 12mm Fuel Hose
2x 2m Length of 35mm Heat Sleeve	2x 12mm Fuel Hose Clamps

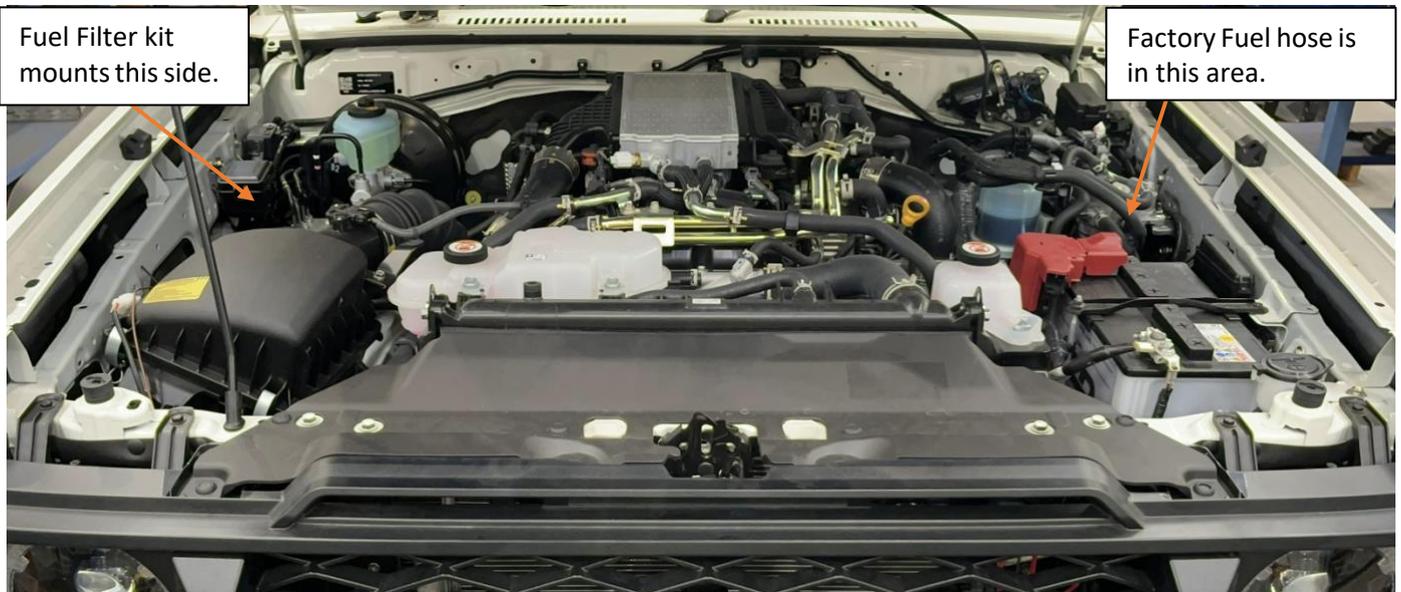


Tools Needed:

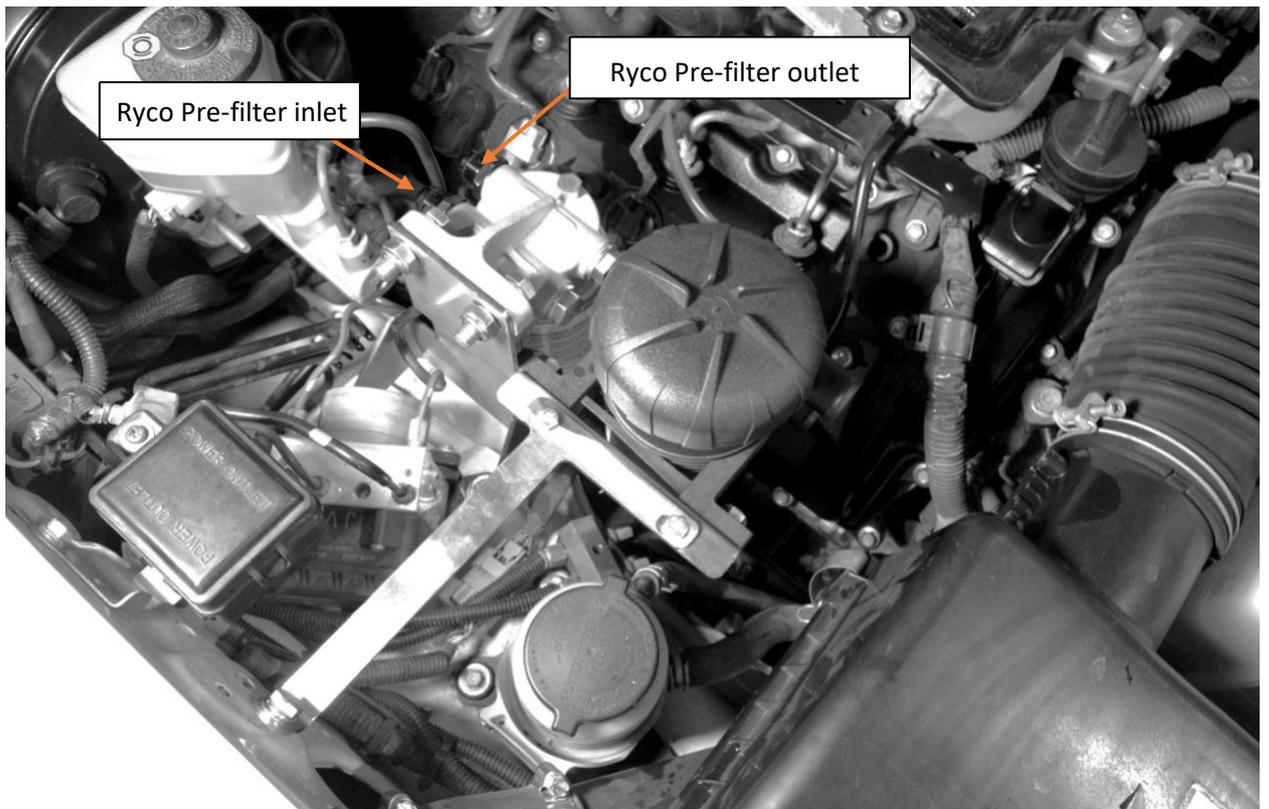
- Spanners
- Sockets
- Screw Drivers
- Pliers
- Snips/Cutter
- Rags
- Small container for priming
- We suggest using a thread sealant like Loctite 567 or equivalent.



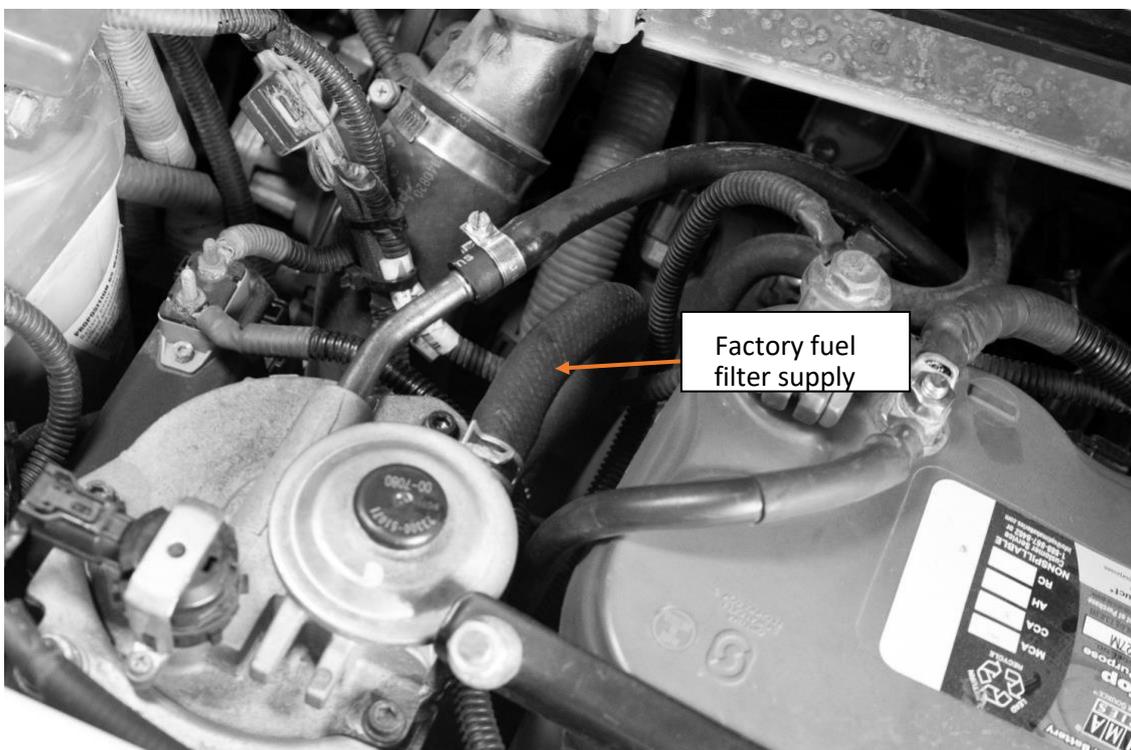
Installation Guide



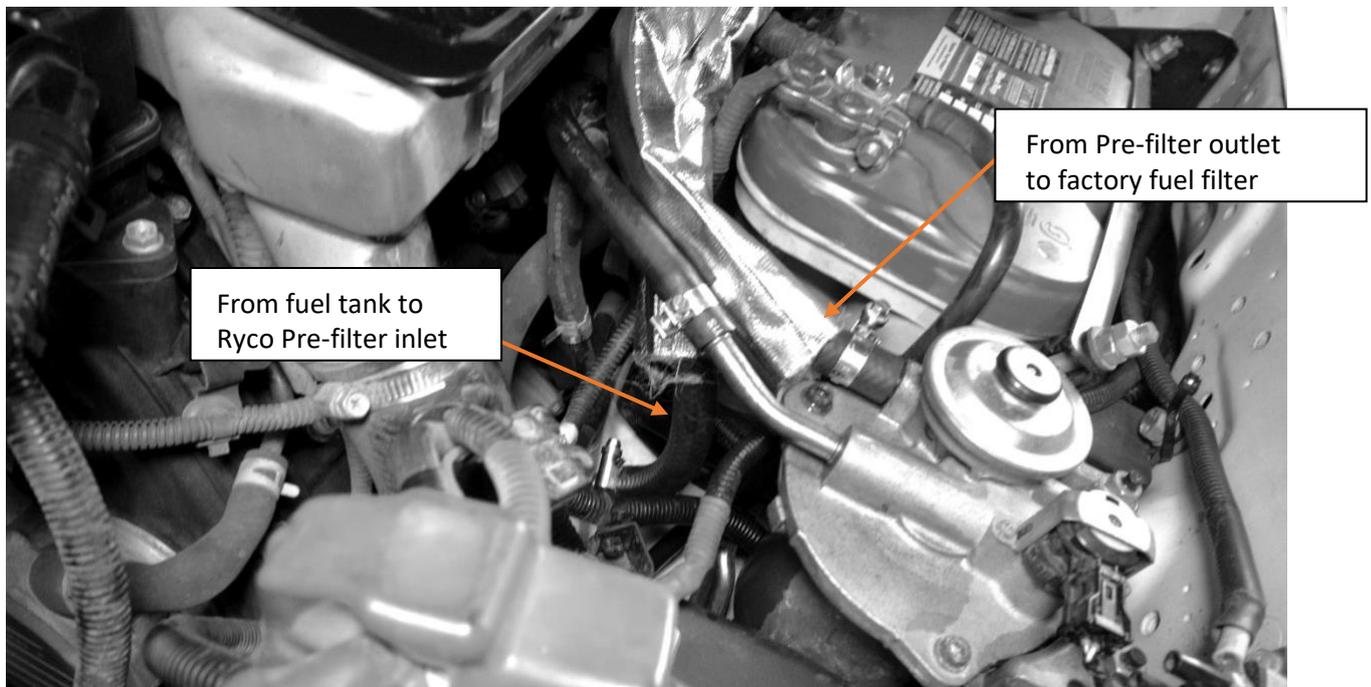
1. Using the supplied 10mm bolts, washers and nuts, mount the Ryco pre-filter assembly filter to rear mounting location of the bracket
2. Install the two Push on straight 12mm to the filter head, so that when the filter is mounted on the bracket, they will both be facing toward the rear of the vehicle
3. Install the two blanking plugs into the remaining ports.



4. Remove the factory fuel filter supply hose. Retain this hose if you wish to remove the kit at any point.



5. Measure from the steel pipe (this pipe comes from the tank) to the inlet port of the Ryco Pre-Filter head (the arrows on the head indicate direction of flow) and cut to length a piece of the supplied 12mm hose
6. 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
7. 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.
8. Install a length of the supplied heat shield over the hose – trim to length if required
9. With the assembled hose, screw the push-lock fitting on to the inlet port of the pre-filter. Routing the hose along the firewall, Connect the other end of the same hose to the steel fuel line coming from the tank and secure using a supplied 12mm fuel 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. Install a length of the supplied heat shield over the hose – trim to length if required
13. With the now assembled hose, screw the push-lock fitting on to the outlet port of the pre-filter
14. Routing the hose along the firewall, 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 12mm fuel hose to the inlet of the factory fuel filter and secure with a supplied 12mm fuel 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 – **NOTE: it is easier to prime the system if the pre-filter element is filled with clean diesel before using the hand primer.**
18. Start vehicle and run the vehicle, whilst checking all connections for leaks

End of Installation