



Installation Guide of Direction Plus Ryco Pre-filter Kit For Toyota Land Cruiser Prado 250 Series 2024+

This document is to be used as a guide for the installation of the **Direction Plus Ryco pre-filter Kit to a 2024+ Toyota Land Cruiser Prado 250 Series Diesel 1GD-FTV (2.8l 4cyl)**. 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



<i>Loose</i>	<i>Bagged</i>	<i>Mounting Kit Bag</i>
1 x Ryco Assembly (Z980SK16L)	5 x 200mm Cable Ties (802078)	2 x M10x30 Bolts (Supplied with Ryco Z980)
2 x 1.4m 3/8" Fuel Hose (DPFH10)	2 x 15-17mm Hose Clamps (FMC10)	2 x M10 Nyloc Nuts
1 x 1m Heat Sleeve (HS35DP)	2 x Straight 3/8" -6 Fuel Fitting (DPP0001-06)	4 x M10 Flat Washers
1 x Mounting Bracket (PL668-BR)	2 x M16x1.5 to -6 adaptors (DP816-6-M1615)	
	1 x 6mL Loctite 567 (567-6ML-LOC)	
1 x RCBOX	3 x M8x20 Bolts (SSSS304M825)	
	3 x M8 Flat Washers (FMW8)	
	3 x M8 Spring Washers (FMSW8)	

**APPROXIMATE MOUNTING LOCATION
RYCO PRE-FILTER KIT**

*Prado 250 series - 2.8L 4cyl
(RC668DPK)*



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



Image of overall engine bay for Prado 250 Series

1. Begin by installing the new bracket into the vehicle in the back driver corner of the engine bay. It locates off two empty M8 threaded holes on the side and one M8 threaded hole at the base.

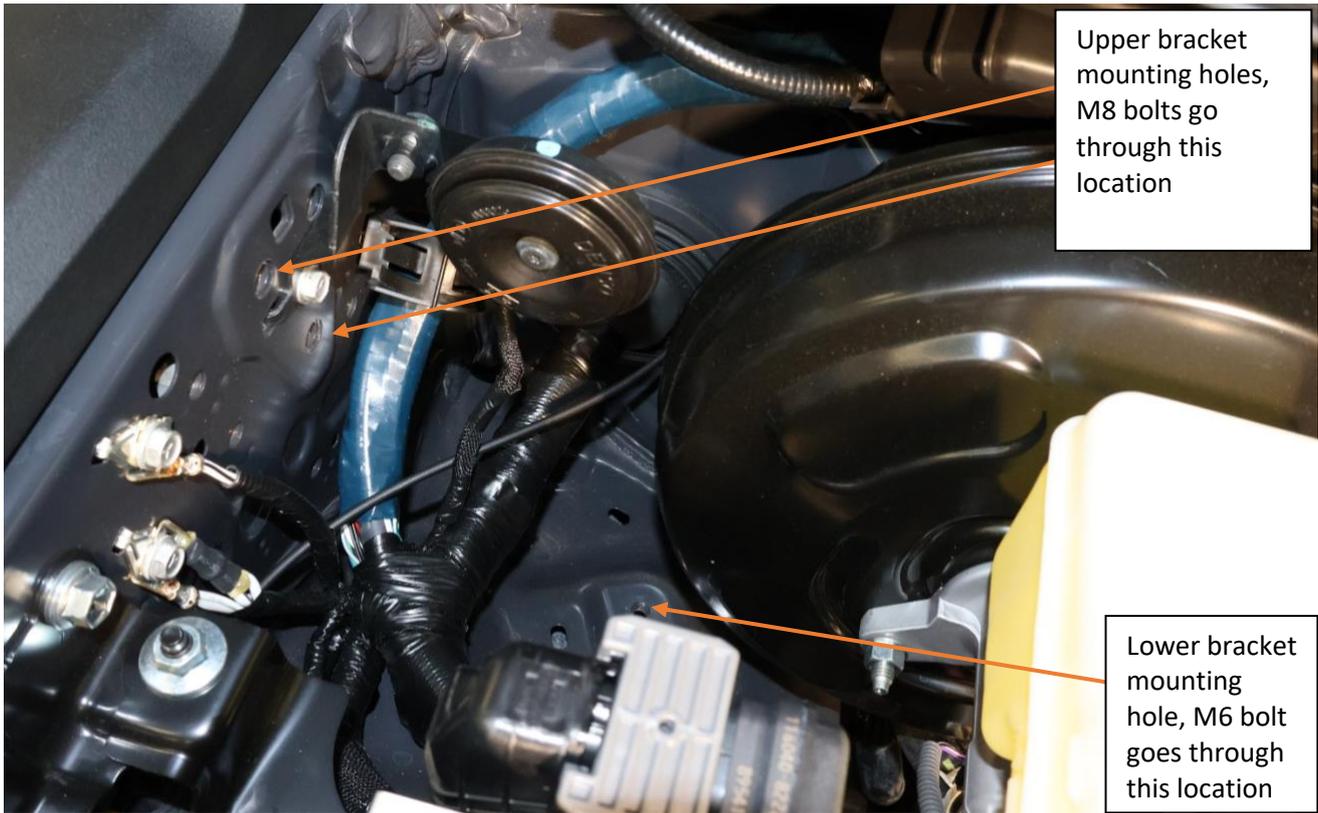


Image of new bracket mounting locations

2. Loosely install the M8x20 bolt with a spring washer and flat washer through the hole in the base of the bracket and into the threaded hole in the body.
3. Install the two remaining M8x20 bolts with spring washers and flat washers through the holes in the side of the bracket and into the empty threaded holes in the side of the engine bay just in front of the security horn.
4. Once you are happy with the position all three bolts can be secured.
5. Using Loctite 567 or similar, secure the M16x1.5 to -6 adaptors into the side of the pre-filter, making sure to use a sealing washer on each. Refer to image on page 5 for which side to install these on.
6. Using Loctite 567 or similar, secure the M16x1.5 blanking plugs into the side of the pre-filter, making sure to use a sealing washer on each. Refer to image on page 4 for which side to install these on.
7. Using the supplied 3/8" hose push one end of each onto the straight fittings, making sure to seat them home all the way!



Picture of fuel hose with fittings– Note tape used to mark one of the hoses at both ends



Fuel hoses inside of heat sleeve, tape used for identification to ensure correct port orientation of hoses



New bracket secured in place

8. 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 other components. Once you are happy with the location, tighten the bolts and nuts to retain in place.
9. Disconnect the fuel supply line to the factory fuel filter, remove this line completely.
10. Connect the new fuel supply line to the supply port of the Pre Filter (using the Straight 3/8" -6 Fuel Fitting with thread sealant). Run the hose through the heat sleeve and down to the steel supply line from the tank. Measure and cut this line to length use a 15-17mm clamp to secure in place.
11. Connect the new Pre Filter outlet line to the outlet port of the Pre Filter (using the Straight 3/8" -6 Fuel Fitting with thread sealant). Run the hose through the same heat sleeve the first hose is in and down to the fuel inlet port on the factory fuel filter. Measure and cut this line to length use a 15-17mm clamp to secure in place.
12. Use the priming pump on the factory fuel filter to prime the fuel system.
13. Once complete start the vehicle, carefully and thoroughly checking for leaks.
14. Run the vehicle for at least 20 minutes to ensure there are no air pockets in the fuel system.



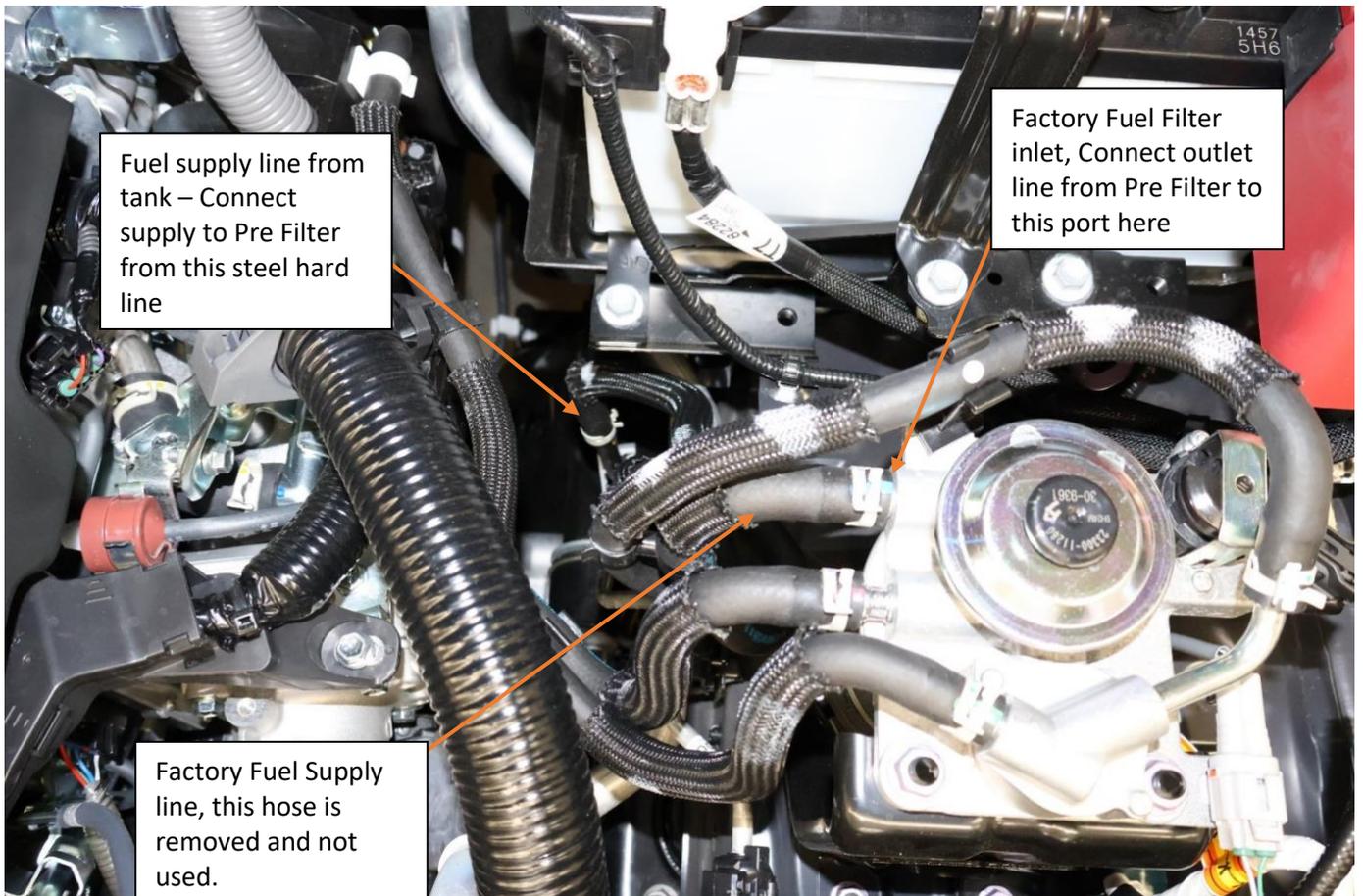
M10 nyloc nut and flat washer on the back

Fuel out to factory filter

M10x30 bolt and flat washer on the front

Fuel in from tank

Ryco Z980S in place on bracket with fuel fittings installed



Fuel supply line from tank – Connect supply to Pre Filter from this steel hard line

Factory Fuel Filter inlet, Connect outlet line from Pre Filter to this port here

Factory Fuel Supply line, this hose is removed and not used.



Finished installation showing hoses in place cable tied up across the back of the engine bay

End of Installation Guide