



Installation Guide of PreLine-Plus 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 PreLine-Plus Pre-filter Kit (PL668DPK)** to a **2024+ Toyota Land Cruiser Prado 250 Series Diesel (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

- PreLine-Plus 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>Wiring Bag</i>
1 x PreLine 150 (PL150WSDP)	5 x 200mm Cable Ties (802078)	Wiring Harness (PLWSIND)
2 x 1.4m 3/8" Fuel Hose (DPFH10)	2 x 15-17mm Hose Clamps (FMC10)	
1 x 1m Heat Sleeve (HS35DP)	2 x Straight 3/8" -6 Fuel Fitting (DPP0001-06)	
1 x Mounting Bracket (PL668-BR)	2 x M16x1.5 to -6 adaptors (DP816-6-M1615)	
	4 x M16 sealing washers (PLFW16)	
	1 x 6mL Loctite 567 (567-6ML-LOC)	<i>PreLine Mounting Kit Bag</i>
1 x PLBOX	3 x M8x20 Bolts (SSSS304M825)	2 x M10x30 Bolts (FMB10KIT)
	3 x M8 Flat Washers (FMW8)	2 x M10 Nyloc Nuts
	3 x M8 Spring Washers (FMSW8)	4 x M10 Flat Washers

**APPROXIMATE MOUNTING LOCATION
PRELINE-PLUS PRE-FILTER KIT**

*Prado 250 series - 2.8L 4cyl
(PL668DPK)*



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

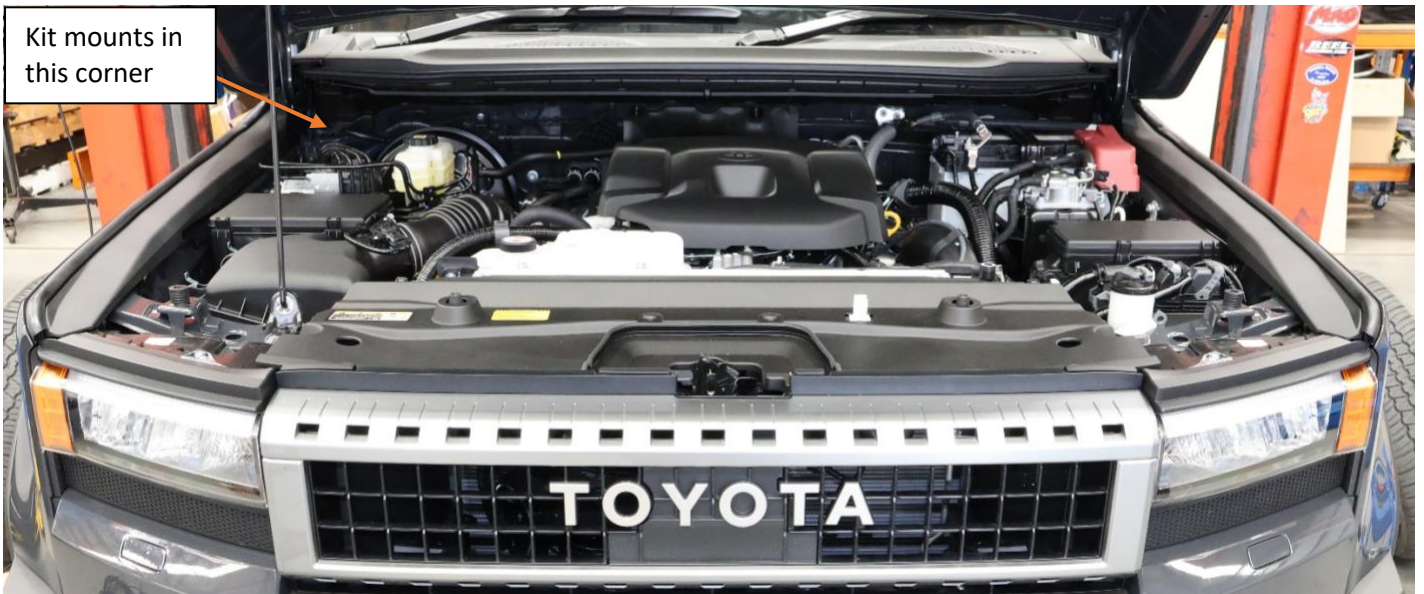


Image of overall engine bay for Prado 250 Series

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.

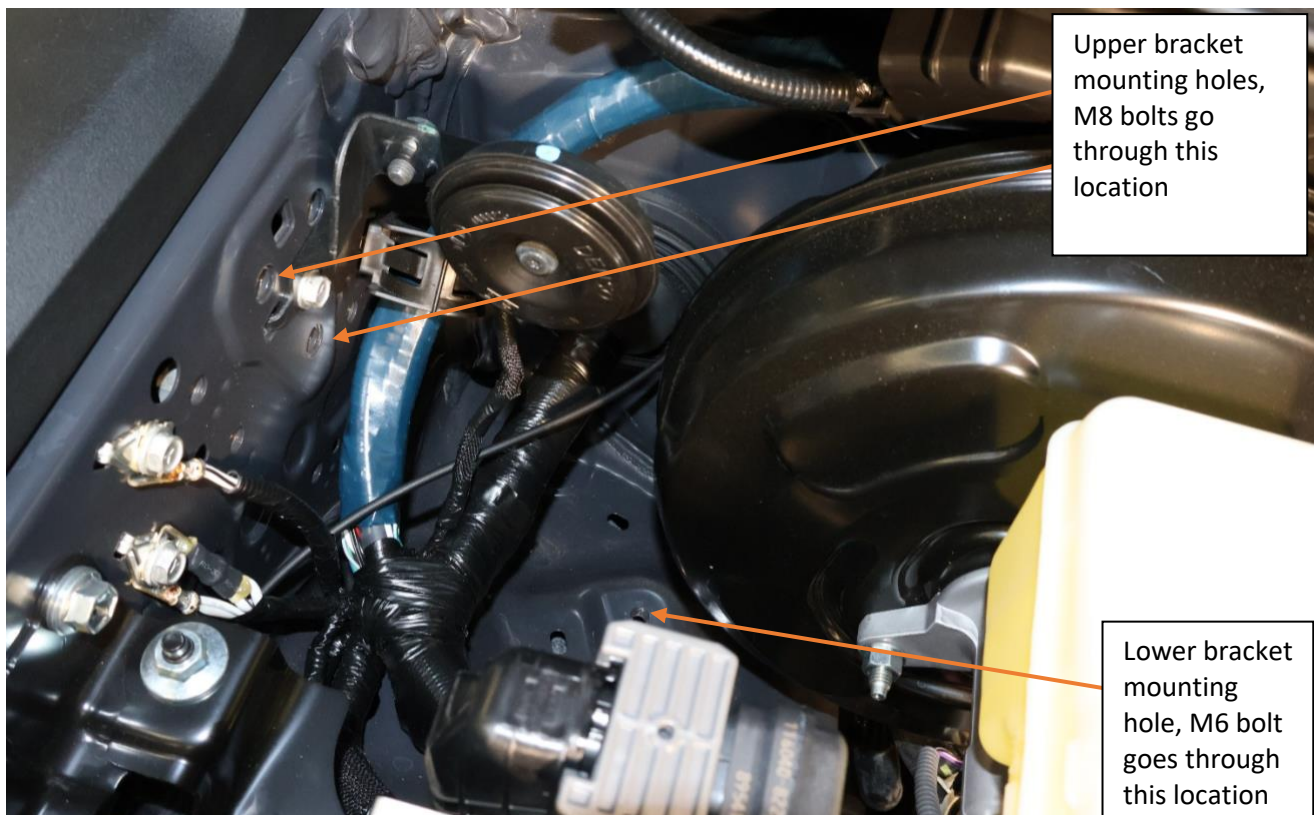


Image of new bracket mounting locations

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. Connect the wiring harness to the water sensor in the bottom of the fuel filter. Check to make sure the water sensor and the filter are tight on the assembly.
6. 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.
7. 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.
8. 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

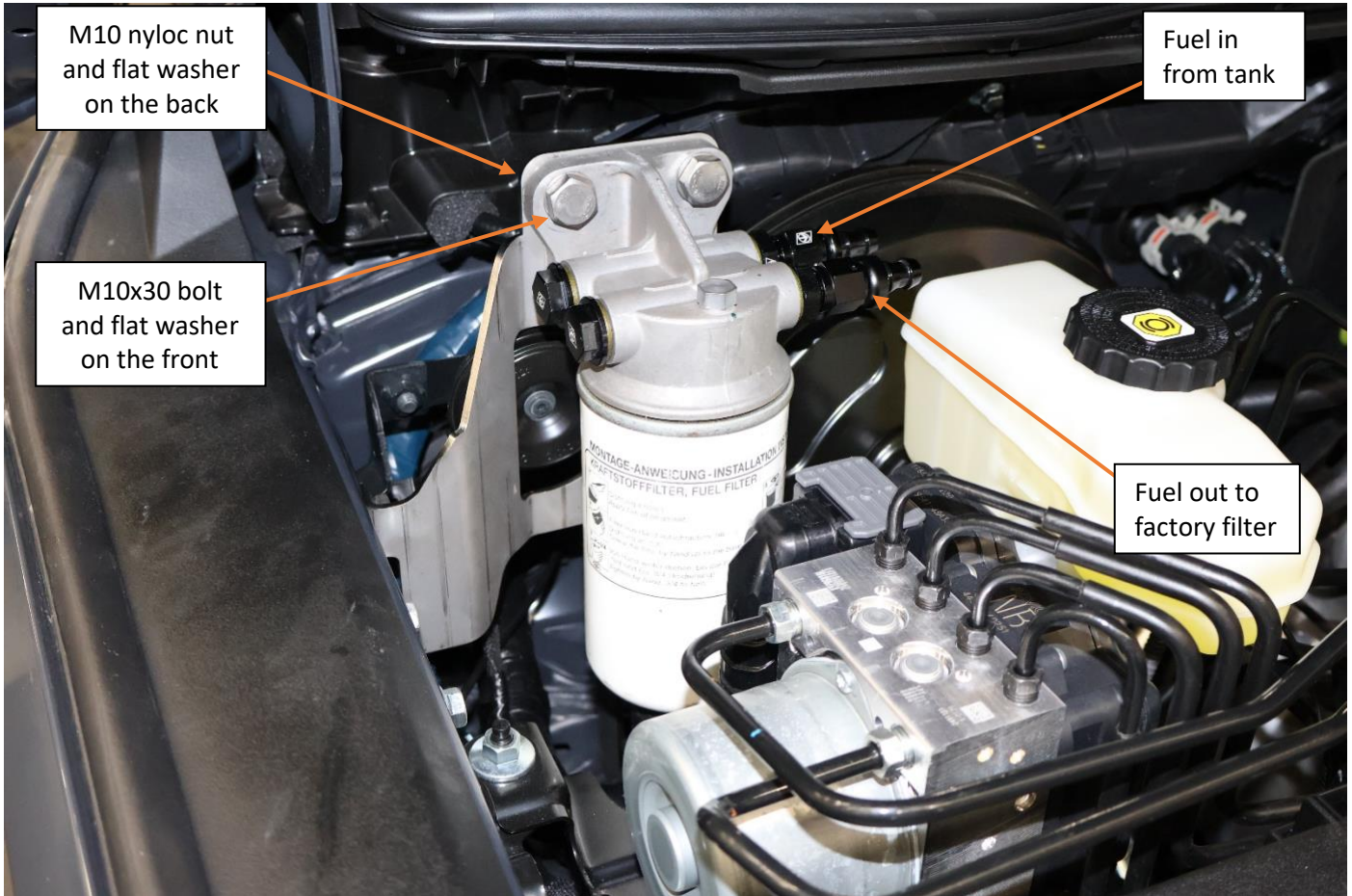


Fuel hoses inside of heat sleeve, tape used for identification to ensure correct port orientation of hoses

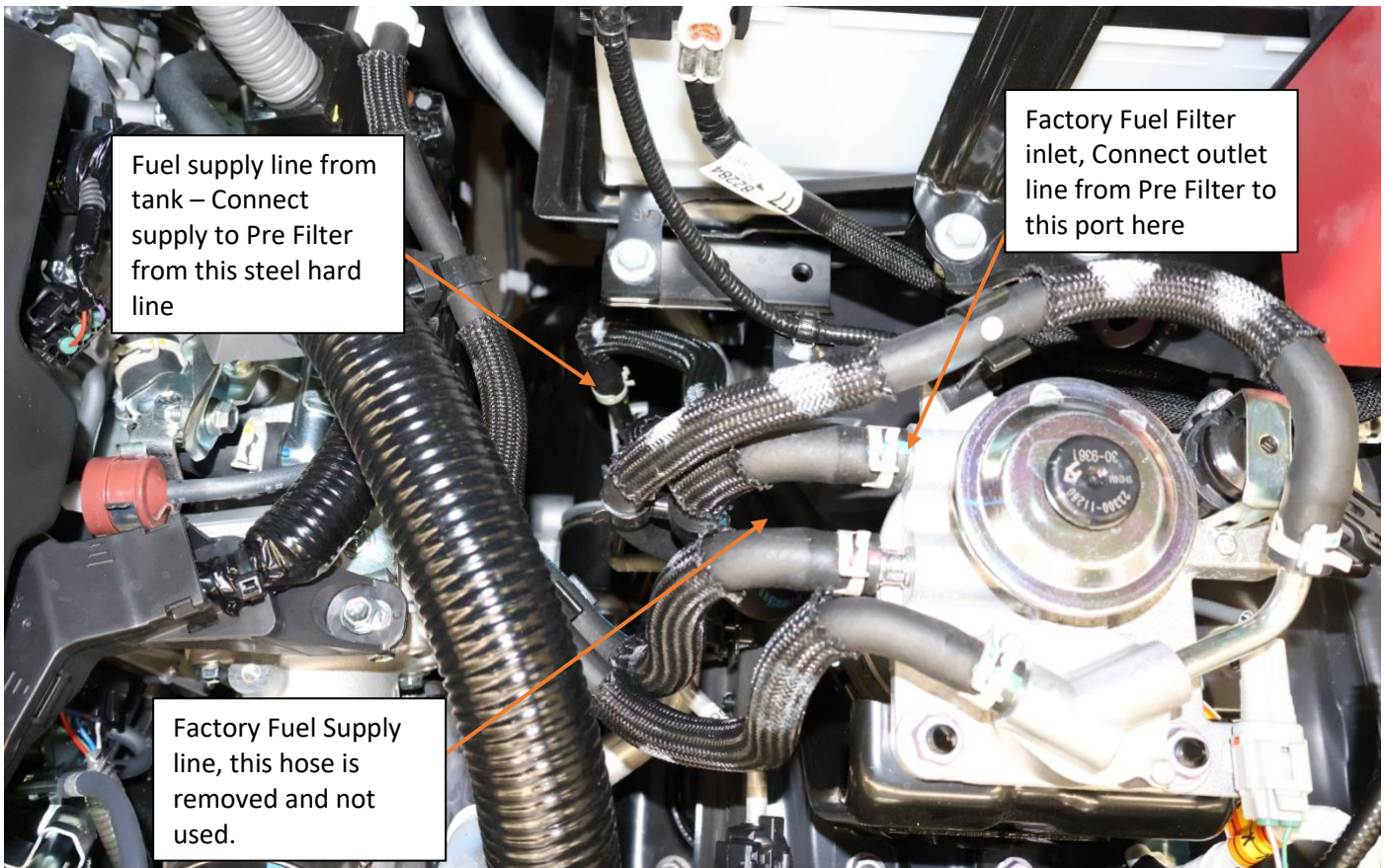


New bracket secured in place

9. 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.



PreLine 150 in place on bracket with fuel fittings installed



10. Disconnect the fuel supply line to the factory fuel filter, remove this line completely.
11. 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.
12. 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.



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



13. Use the priming pump on the factory fuel filter to prime the fuel system.
14. Once complete start the vehicle, carefully and thoroughly checking for leaks.

PreLine-Plus Water Sensor Control Unit

15. Run the vehicle for at least 20 minutes to ensure there are no air pockets in the fuel system.
16. There are three wires on the harness, a long wire (signal), a short black wire with an eyelet(earth) and a short wire with an add-a-fuse holder (power). The fuse is a mini blade type and rated at 5A.
17. Route the signal wire for the in-cabin warning light into the cabin via the grommet in the firewall on the passenger's side. Use cable ties to retain in place.
18. Mount the in-cabin warning light in the desired location, you will need a 20mm hole-saw to do this cleanly and quickly. We recommend installing it in one of the empty switch covers.
19. Secure the signal wire to one of the terminals on the warning light (it doesn't matter which). To the other terminal, connect the short earth lead. Use one of the M6 earth locations just above the kick panel on the driver's side to secure the eyelet on the short earth lead.
20. Connect the Power wire to an ignition source in the fuse box, piggy backing the original fuse. (the original fuse for the circuit goes into the empty fuse location in the add-a-fuse holder. The PreLine system draws well under 0.5 amps, so its current draw is minimal.
21. Connect the Negative eyelet on the harness to the negative terminal on the battery or nearby chassis earth.
22. Secure any excess wiring out of the way with the supplied cable ties.
- 23. Refer to the PL Water Sensor Control Unit Installation Guide**

End of Installation Guide