



TOYOTA LandCruiser 200 Series V8 Direction-Plus™ Pre-Line Plus Kit Installation Guide

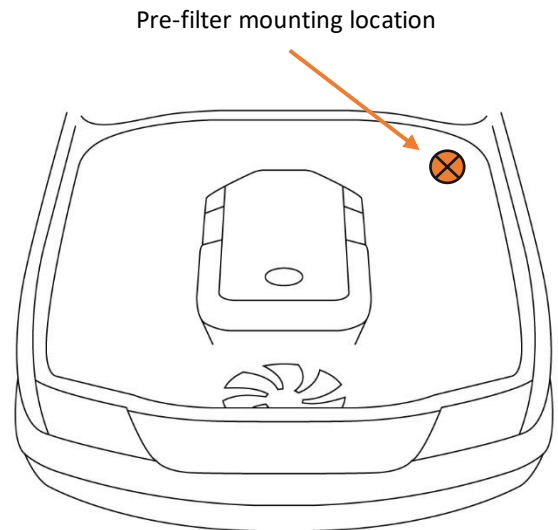
This document is to be used as a guide for the installation of the Direction-Plus™ Pre-Line Plus Kit to the LandCruiser 200 Series V8. It is recommended that the installation of the product be carried out by a competent qualified mechanic.

Important before starting

- Ensure the engine bay is clean and free from contaminates
- 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

Kit contents

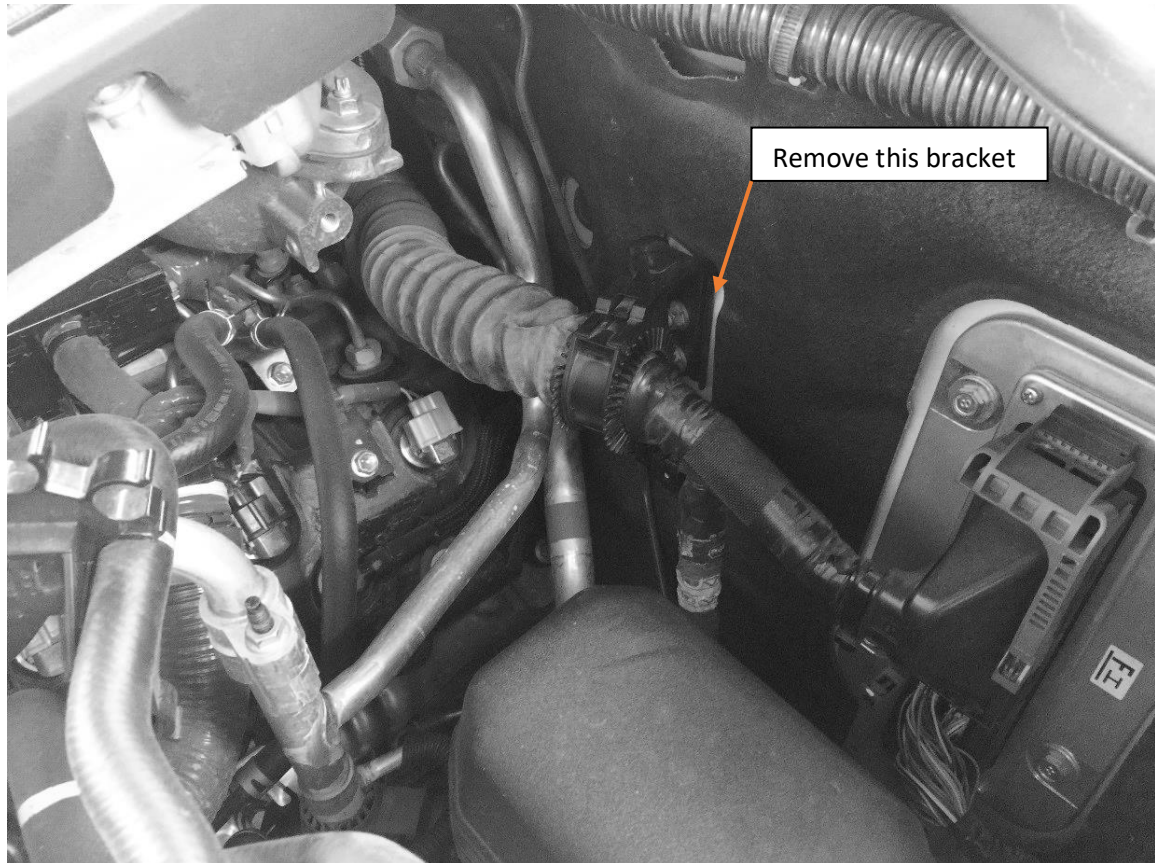
M16 ADAPTER STRAIGHT - 12MM	2
2 BOLTS 2 NUTS 4 WASHERS	1
6MM NYLOC NUT	2
M8 SPRING WASHER	2
M8 FLAT WASHER	2
M8X16MM BOLT	2
MOUNTING BRACKET	1
DFL12 - FUEL LINE RUBBER (12MM)	1
PL150DP + WATER SENSOR	1
ENGINE BAY LABEL	1
M16 FLAT WASHER	2
CLAMP 12MM	2
PUSH ON STRAIGHT - 12MM	2
WATER ALARM KIT	1
WINDSCREEN LABEL	1



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

Installation Guide

1. Begin by locating the bracket located on the passenger side firewall which supports the wiring harness. Unclip the wiring harness and remove the bracket from the vehicle. It is secured in place by two M6 nuts.

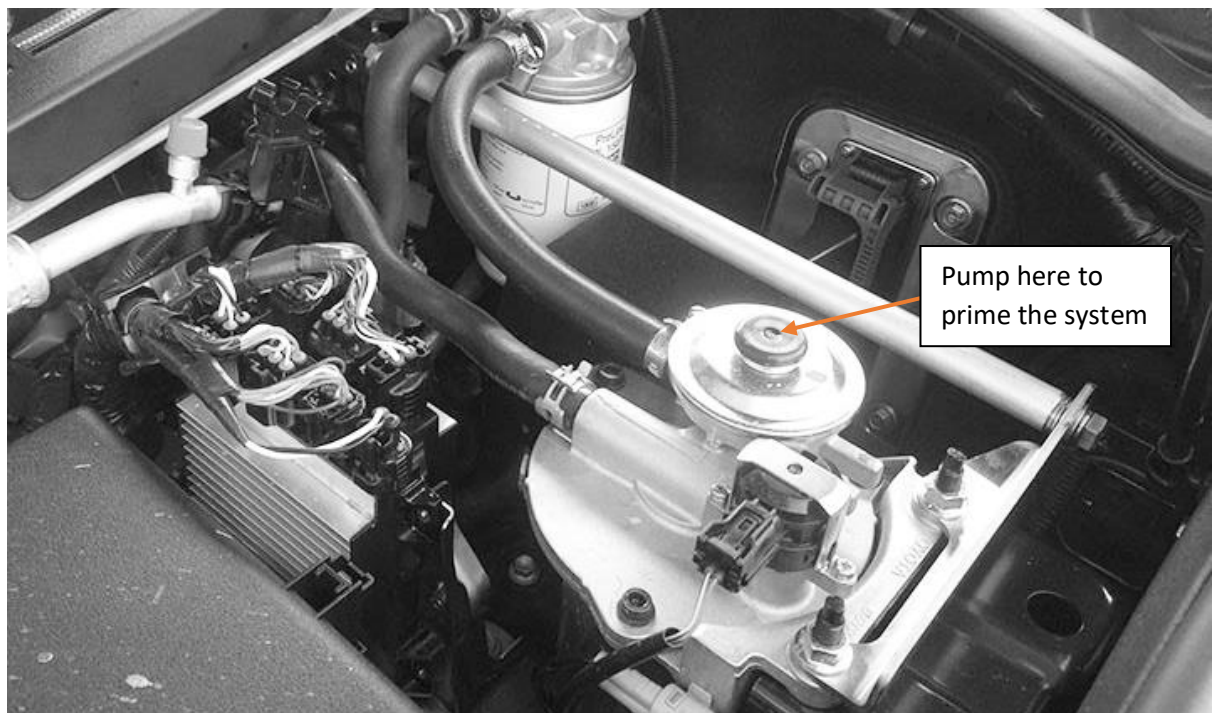
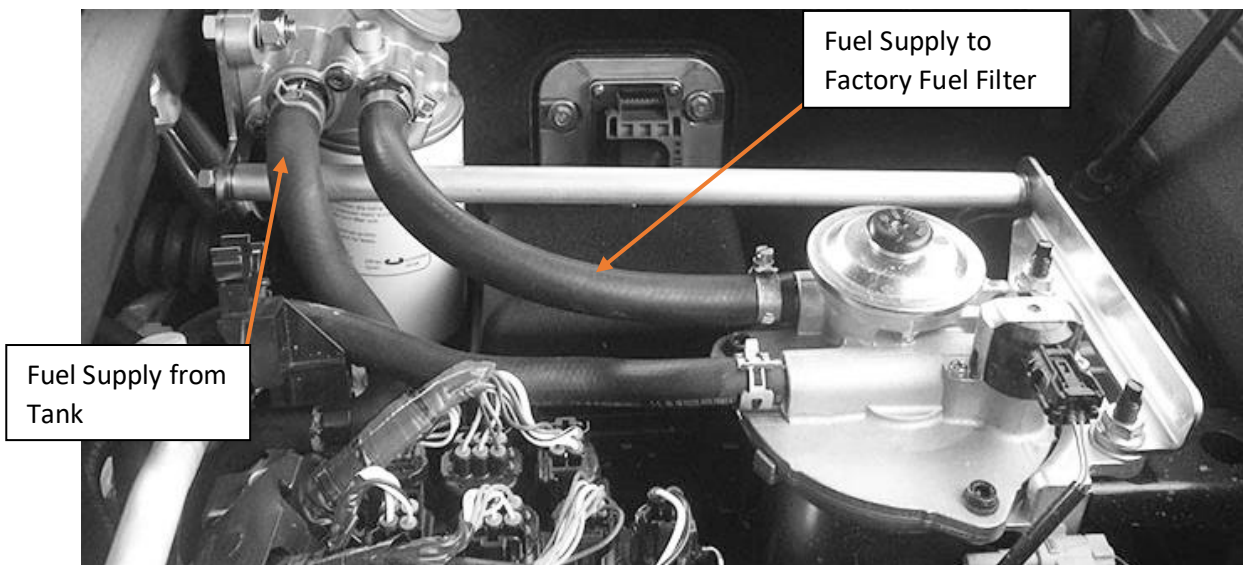


2. Remove the black clip from around the wiring harness.
3. Using the original M6 nuts, mount the new bracket to the firewall. Do not fully tighten yet!



New bracket secured in place, note prototype bracket in place, not production version

4. Bolt the PL150DP 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 the A/C line and the wiring harness. Once you are happy with the location, tighten the bolts and nuts to retain in place. **Note: you may need to remove and reposition the two M16 plugs pre-installed into the filter head**
5. Install the second bracket to the two bolts retaining the stock fuel filter. Do not fully tighten yet!
6. Install the alloy support shaft between the backing bracket and the bracket you just installed to the factory fuel filter. Use an M8x25 bolt, spring washer and flat washer at each end to secure it firmly in place.
7. Now you can tighten all the mounting bolts to secure the whole assembly in place.



8. Install the two M16 flat washers and straight adapters to the filter head, so that when the filter is



mounted on the bracket they will be facing toward the front of the vehicle

9. Remove the factory fuel line the connects the steel fuel line to the inlet of the factory fuel filter
10. Lubricate the barbed end of one (1) of the push-lock fittings and the inside portion of the hose to be fitted with a push-lock fitting with diesel fuel or WD40.
11. Insert the barbed end of one (1) of the push-lock fittings into the pre-lubricated end of the hose. Ensuring that the hose is firmly stopped against the inside of the bell cover.
12. With the assembled hose, screw the push-lock fitting in to the INLET port of the PL150DP. Route the hose to the steel fuel line coming from the tank and cut to length. Connect and secure with a 12mm hose clamp
13. Install the othe push lock fitting to the remaining hose as outlined in steps 10 and 11
14. Connect this hose to the OUTLET of the PL150DP. Route the hose to the inlet of the factory fuel filter. Connect and secure with a 12mm hose clamp
15. Ensure all fuel lines are suitably secured.
16. Using the supplied nylon cable ties, secure any loose hose to prevent it from rubbing against any other components.
17. Prime the system using the hand primer on the factory filter. When the primer goes firm, the engine is ready to start.
18. Start and run the engine whilst checking ALL connections for leaks.
19. The vehicle wiring harness can be cable tied to the new Preline Bracket if desired
20. Refer to supplementary instruction for water alarm connection

END OF GUIDE