



Ford Ranger / Mazda BT-50 2011-2017 Direction-Plus™ Pre-Filter Kit Installation Guide

This document is to be used as a guide for the installation of the Direction-Plus™ Fuel Manager™ FM100 pre-filter Kit to a Ford Ranger / Mazda BT-50 2011-2017. It is recommended that the installation of the product be carried out by a competent qualified mechanic.

Important before starting

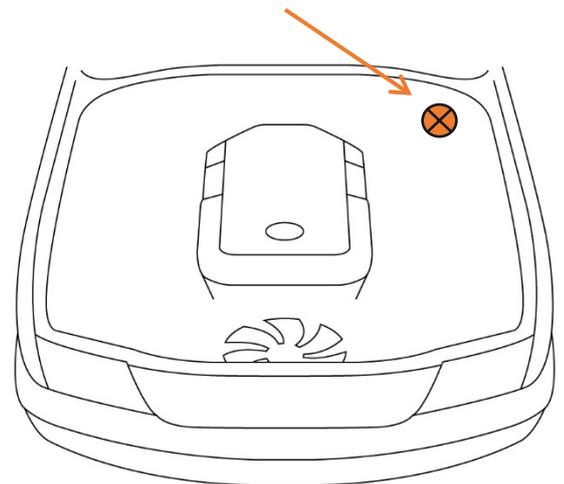
- Ensure the engine bay is clean and free from contaminants
- The fuel manager filter head has direction arrows indicating the direction of flow
- You have the correct tools to complete the fitment
- Read the instructions in full and familiarize yourself with the installation before commencing any work

Kit contents

1/4" NPT STRAIGHT - 10MM	2
2 BOLTS 2 NUTS 4 WASHERS	1
9.89 ELBOW 8MM BARB	2
BRACKET - FORD RANGER/BT50 3.2lt	1
DFL10 - FUEL LINE RUBBER (10MM)	1
DP733-04 - 1/4 "NPT PLUG	2
ELEMENT ASSEMBLY 30M - 3.6"	1
FM ENGINE BAY LABEL	1
FM100 30 MICRON FILTER ASSY	1
HOSE CLAMP - 10MM	2
LOCTITE 567 THREAD SEALANT - 6ML	1
PUSH ON 90 DEG - 10MM	2
WINDSCREEN LABEL	1

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

Pre-filter mounting location



Installation Guide

1. Remove the 10mm head bolt from the top left corner of the fuse box (looking towards the rear of the vehicle) and the 13mm head bolt from the ABS unit mount
2. Place bracket in the engine bay with the flat side towards the firewall. Line up the bolt holes on base of the bracket with the holes for the fuse box and the ABS unit.
3. The mounting hole on the top of the pre-filter bracket will line up with a trim clip securing the cowl cover. Remove this clip
4. Reinstall the bolts removed from the ABS mount and the fuse box, securing the base
5. Reinstall the trim clip removed from the cowl cover, passing through the top mounting hole of the pre-filter bracket and securing it.



6. Mount the FM100 Pre-filter assembly to the mounting bracket using the 2 x 10mmx30mm bolts, 4 x 10mm flat washers and 2 x 10mm nyloc nuts.
7. Install the ¼ NPT adapters, using a small amount of the supplied thread sealant to the inlet and outlet ports that are facing outward, towards the inner guard and tighten.
8. Install the ¼ NPT plugs into the two remaining ports using a small amount of the supplied thread sealant and tighten.
9. Remove the RED quick disconnect fitting from the original filter head (the larger lower fitting) and the other end of the pipe coming from the tank. Remove the factory piece of pipe. Keep this pipe in a safe place as it will be needed if the vehicle needs to be return to factory specification.
10. With one end of the supplied 10mm fuel hose, Lubricate the inside portion of one end using diesel fuel or WD40
11. Install one of the 10mm 90° push-lock fittings into the pre-lubricated end of the 10mm fuel hose, ensuring that the hose stops firmly against the inside of the bell cover.
12. Connect the 10mm 90° push-lock fitting to the inlet of the pre-filter housing. Adjust the angle of the fitting tail to clear any obstructions.
13. Route the 10mm fuel hose down to the steel fuel pipe that was connected to inlet of the factory fuel filter and cut the hose to length approximately 25mm past the end of the steel fuel pipe
14. In the end of the same piece of fuel hose, install one of the 9.89mm female quick disconnect fitting and secure with a hose clamp. Connect this hose to the supply line from the tank.
15. With the remaining length of 10mm fuel hose Lubricate the inside portion of one end using diesel fuel or WD40.
16. Install the last 10mm 90° push-lock fitting into the pre-lubricated end of the 10mm fuel hose, ensuring that the hose stops firmly against the inside of the bell cover.
17. Connect the 10mm 90° push-lock fitting to the outlet of the pre-filter housing. Adjust the angle of the fitting tail to clear any obstructions.
18. Route the 10mm fuel hose to the inlet of the factory fuel filter and cut the hose to length, approximately 25mm past the end of the inlet barb
19. Install the last 9.89mm female quick disconnect fitting in the end of the same fuel hose and secure with a hose clamp. Connect this hose to the inlet of the factory fuel filter and secure with a supplied hose clamp.
20. Using the supplied nylon cable ties carefully secure both fuel hoses, ensuring they are not kinked and cannot contact any hot components.
21. Remove any loose tools from the work area
22. To prime the fuel manager assembly with fuel turn the ignition key to the ON position and wait 5 seconds, then switch the ignition OFF. Repeat this process another 3 times.
23. Start the vehicle and allow to run for 2-3 minutes whilst checking for any possible leaks.

END OF GUIDE