



# Isuzu D-MAX / MUX 4JJ1 2013-2017 Dual Battery Direction-Plus™ Pre-Filter Kit Installation Guide

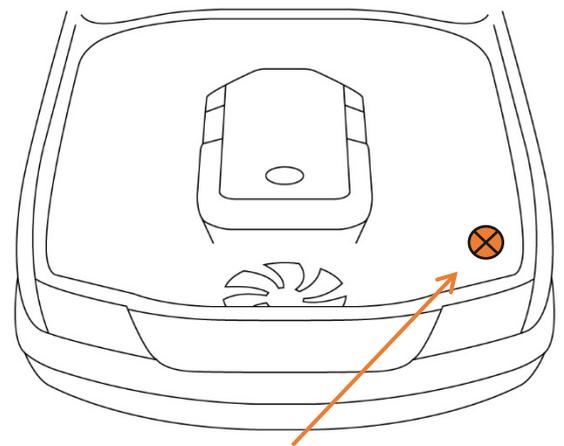
This document is to be used as a guide for the installation of the Direction-Plus™ Fuel Manager™ FM100 pre-filter Kit to an Isuzu D-MAX / MUX 4JJ1 2013-2017 dual battery. It is recommended that the installation of the product be carried out by a competent qualified mechanic.

## Important before starting

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

FM100 30 MICRON FILTER ASSY	1.00
1/4 "NPT STRAIGHT - 12MM	2.00
PUSH ON STRAIGHT - 12MM	2.00
DP733-04 - 1/4 "NPT PLUG	2.00
FMC12 - CLAMP 12MM	2.00
DFL12 - FUEL LINE RUBBER (12MM)	1.50
2 BOLTS 2 NUTS 4 WASHERS	1.00
LOCTITE 567 THREAD SEALANT - 6ML	1.00
ELEMENT ASSEMBLY 30M - 3.6"	1.00
WINDSCREEN LABEL	1.00
FM ENGINE BAY LABEL	1.00
BRACKET - DMAX/MUX DUAL BATTERY	1.00
DIRECTION PLUS STICKER LARGE	1.00
DIRECTION PLUS STICKER SMALL	1.00



Pre-filter mounting location

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

## Installation Guide

1. Remove the 10mm bolt that secures the battery retention bracket to the guard just behind the passenger side headlight. Retain this bolt as it will be reused
2. Remove the 10mm bolt securing one side of the power steering reservoir that is in line with the ISUZU build plate on the radiator support panel. Retain this bolt as it will be used later.
3. Place the pre-filter mounting bracket into its mounting location so that the flange is facing up. The horizontal tab on the mounting bracket will need to be slipped underneath the battery retention bracket
4. Loosely re-install the 10mm bolt that was removed from the battery retention bracket
5. Line up the other end of the pre-filter bracket with the bolt hole for the power steering reservoir mounting bracket. Re-install the 10mm bolt that was previously removed and tighten



6. Tighten the 10mm bolt that secures the battery retention bracket
7. Mount the FM100 Pre-filter assembly to the mounting bracket using the 2 x 10mmx30mm bolts, 4 x 10mm flat washers, 2 x 10mm nyloc nuts.
8. Install the ¼ NPT adapters, using a small amount of the supplied thread sealant to the inlet and outlet ports that are facing towards the rear of the vehicle.
9. Install the ¼ NPT plugs into the two remaining ports facing towards the front of the vehicle, using a small amount of the supplied thread sealant and tighten.
10. Lift the factory fuel filter out of the factory mounting bracket and let sit to one side.
11. Identify the hose on the factory fuel filter that is closest to the fender, this is the inlet hose. Trace this hose down to the firewall.
12. Disconnect factory fuel filter inlet hose from both ends and completely remove from the vehicle. Retain this hose in a safe place so the vehicle can be returned to factory in the future
13. Measure from the steel pipe on the firewall (this pipe comes from the tank) to the inlet port of the fuel manager head (the arrows on the head indicate direction of flow) and cut to length a piece of the supplied 12mm hose
14. 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
15. 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.
16. With the assembled hose, screw the push-lock fitting on to the inlet port of the pre-filter. Connect the other end of the same hose to the steel fuel line coming from the tank and secure using a supplied 12mm hose clamp
17. 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
18. 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.
19. With the now assembled hose, screw the push-lock fitting on to the outlet port of the pre-filter.
20. Measuring the hose in place between the outlet port of pre-filter the inlet of the factory fuel filter, cut the hose to length
21. Connect the 12mm fuel hose to the inlet of the factory fuel filter and secure with a supplied 12mm hose clamp
22. Refit the factory fuel filter back into its mounting bracket.



23. Apply a small amount of LOCTITE thread sealant to the two black ¼ NPT plugs and install them into the two remaining ports in the pre-filter head.
  
24. Using the supplied nylon cable ties, secure any loose hose from rubbing on any other components
  
25. Bleed the fuel system by pumping the hand primer on the factory filter until firm
  
26. Start vehicle and run the vehicle, whilst checking all connections for leaks

END OF GUIDE