



Isuzu D-Max 4JJ1 ProVent 200 Installation Guide

This document is to be used as a guide for the installation of the Direction-Plus™ ProVent 200 Crankcase Ventilation Filter Kit to a 2012-2019 Isuzu D-Max/MUX 3.0L 4JJ1 Diesel. It is recommended that the installation of the product be carried out by a competent qualified mechanic.

Note: if your vehicle is fitted with a DPF (Diesel particulate filter) refer to the appendix at the end of the guide

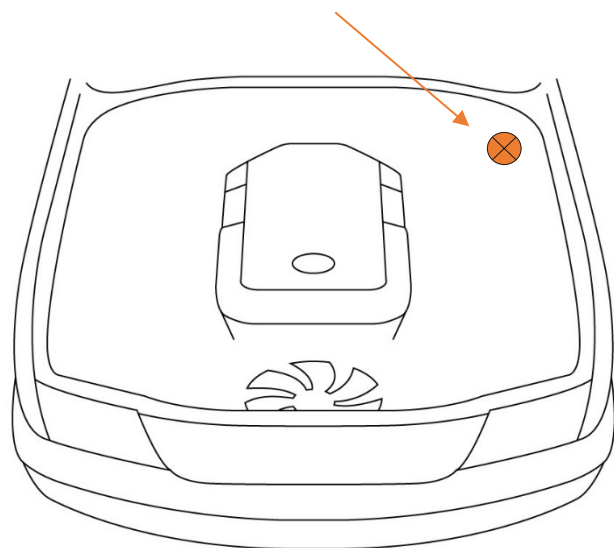
Important Before Starting

- 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

Included in the kit

1 x Mann + Hummel ProVent 200
1 x Mounting Bracket Part A
1 x Mounting Bracket Part B
1 x Mounting Bracket Part C
1 x 80mm of 16mm Hose
1 x 100mm of 16mm Hose
2 x 750mm of 16mm Hose
6 x M6x16 Bolts
10 x M6 Flat Washers
2 x M6 Spring Washers
4 x M6 Nyloc Nuts
11 x 16mm Spring Clamps
2 x 25mm Spring Clamps
2 x 16mm 90° Elbow
3 x 16mm Straight Joiner
2 x 25-16mm Reducing Couplers
2 x M8x25 Bolts
4 x M8 Flat Washers
2 x M8 Spring Washers
2 x M8 Stainless Steel Nuts
1000mm of 12mm Hose
1x Drain Tap Assembly
2 x 18-20mm Clamps
8 x Cable Ties

Approximate mounting location



Installation Guide

1. Begin by removing the engine cover, it just pops off plastic pins, it requires no tools to remove. Some Covers require the oil filler cap to be removed first, if this is needed please reinstall oil filler cap once cover is removed to prevent and contamination inside the engine.



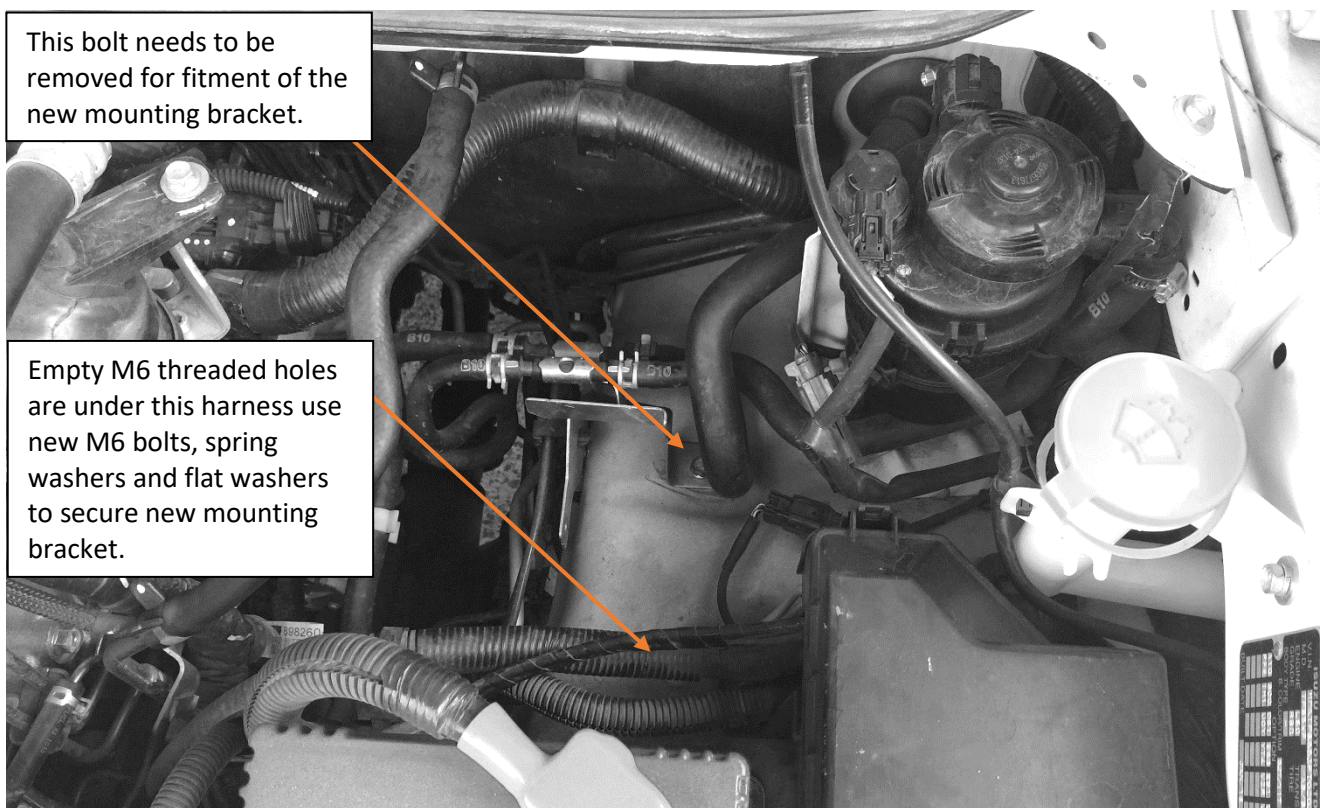
D-Max Engine Bay- Overall View

2. Disconnect the factory bypass hose from the valve cover which runs down to the air inlet hose just before the turbocharger.



D-Max Engine Bay- Exhaust Side

3. Remove the bolt securing the fuel line bracket in the rear passenger side of the engine bay. Locate the two additional blank M6 threaded holes under the wiring harness. Place the new mounting bracket in place and secure with M6x16 bolts, M6 spring washers and flat washers. Reuse the original M6 flange head bolt in the original location, but now securing the new bracket in addition to the original one.



D-Max Engine Bay- Rear Passenger Side



D-Max Engine Bay- Rear Passenger Side with new bracket installed

4. Connect the 12mm Hose to the underside of the catch can body, using a 12-20mm Clamp to secure it in place.



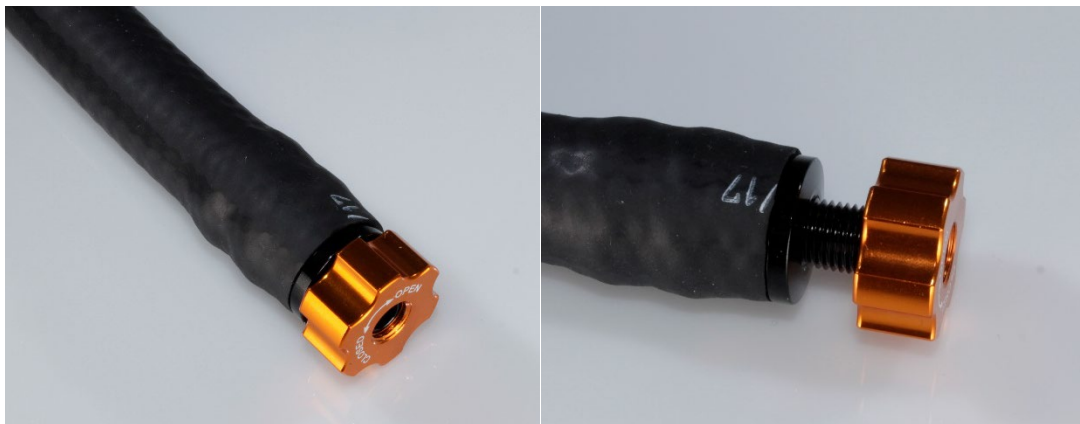
Provent® 200 with 12mm hose connected and secured with 12-20mm spring clamp

5. Install the ProVent 200 onto the bracket using the supplied M8 Hardware. During the installation you will need to feed the 12mm drain hose down the side of the engine bay.
6. Run 12mm Hose down under the vehicle to an out of the way location, making sure it is clear of any suspension, driveline and exhaust components, fit the tap hose tail into the hose and secure with a clamp.



Hose tail and tap assembly inserted into 12mm hose, secured with a clamp

7. Use the supplied cable ties to secure the 12mm hose into the location required to prevent movement, just leave a slight amount of slack in the line where the body and chassis join to prevent stretching the hose.
8. Make sure the tap position is closed and avoid placing the tap in a location in which it will fill with dirt and mud.



Left image – Tap Open

Right image – Tap Closed.

9. Make sure the tap position is closed and avoid placing the tap in a location in which it will fill with dirt and mud.
10. Install the 25-16mm reducers to the inlet and outlet ports of the ProVent 200 using the supplied spring clamps to secure in place.



ProVent 200 bolted in place at correct orientation with first support bracket in place. 25-16mm reducing couplers and clamps are also installed in this picture

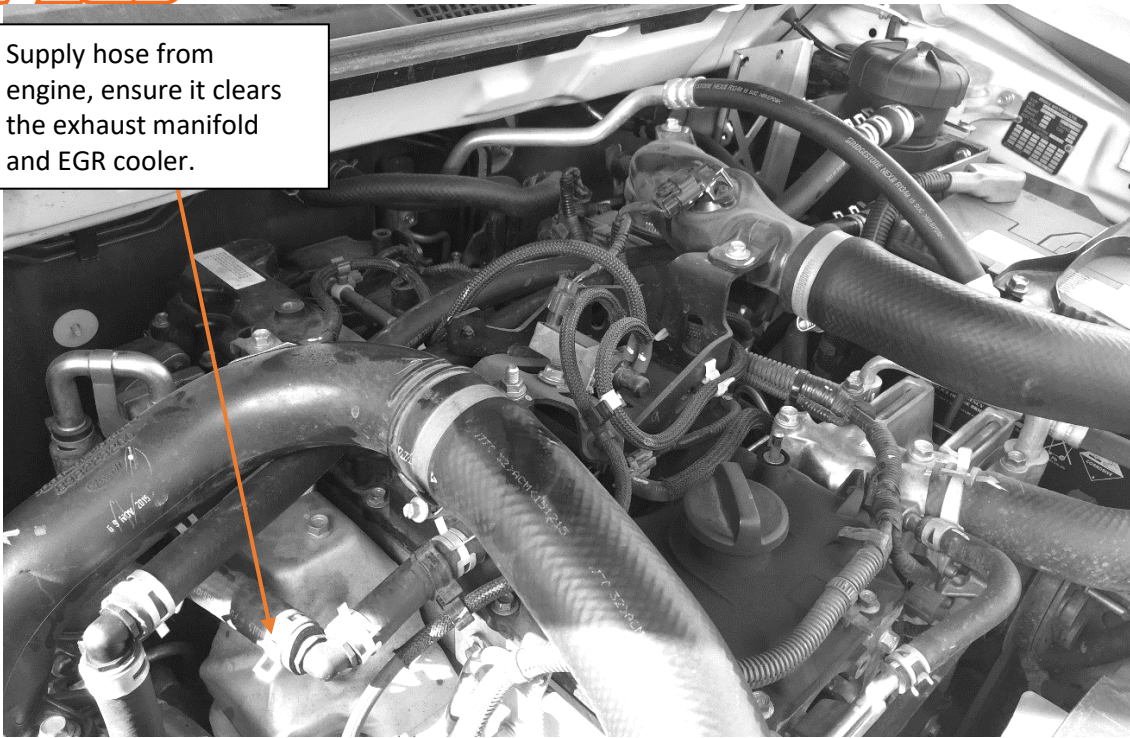
11. Install the both braces using the M6x16 bolts, M6 flat washers and M6 nyloc nuts. It reuses the original washer bottle filler mounting bolt and location.
12. Mount one end of the 80mm long 16mm hose to the fitting on the valve cover in which the factory bypass hose was removed. Use a 16mm spring clamp to secure it in place.
13. Mount the other end of the 80mm long 16mm hose to a 16mm 90° elbow, face the elbow towards the cabin and secure in place with a spring clamp. To the other end of this elbow secure one end of the 100mm length of 16mm hose. To the other end of the 100mm long 16mm hose to a 16mm 90° elbow, face the elbow towards the ProVent and secure in place with a spring clamp.
14. Use a 750mm length of 16mm hose to run from the inlet port of the ProVent 200 to the 90° elbow you just installed. Secure in place with a spring clamp at each end.
15. Use the other 750mm length of 16mm hose to run from the outlet port of the ProVent 200 to the factory bypass hose, using a 16mm joiner to connect the two. It may need to be trimmed shorter depending on route taken. Secure in place with a spring clamp at each end.
16. Once complete reinstall the engine cover and check system for leaks.

Return Hose to Air Intake



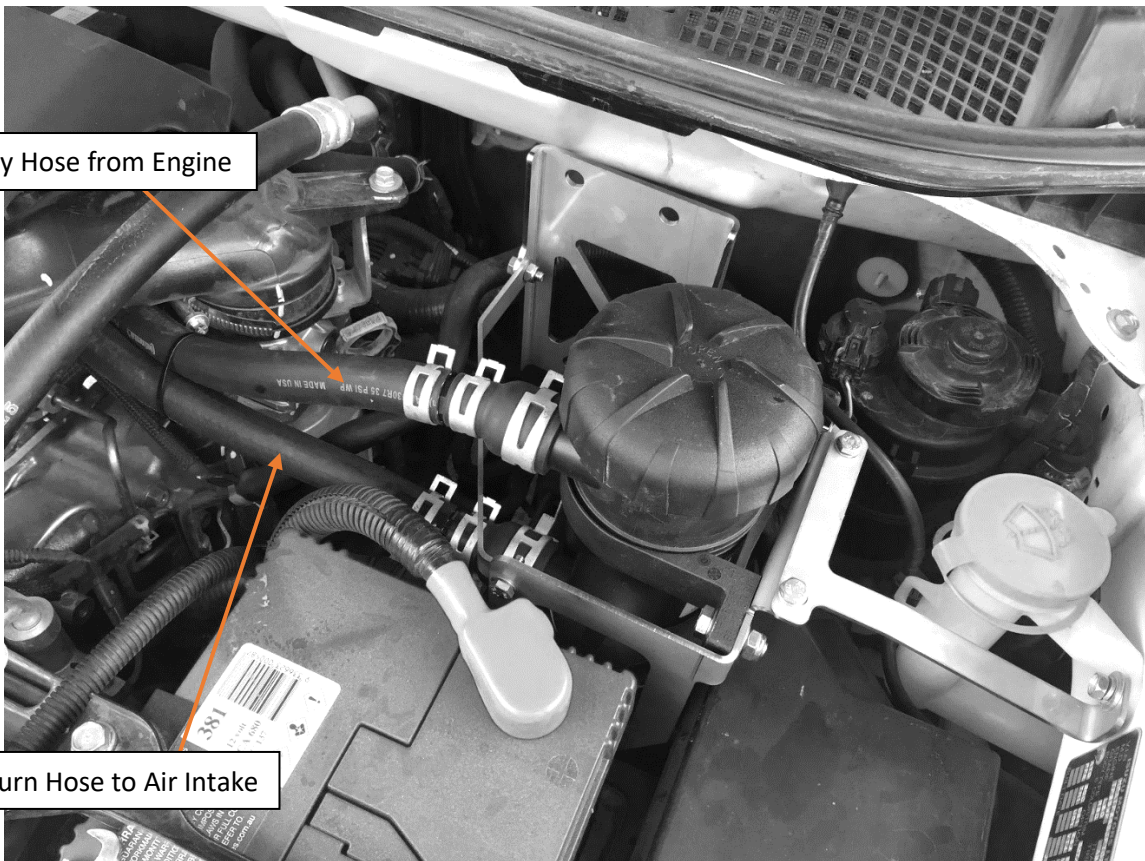
Hose routing for ProVent 200 with engine cover removed, please note this vehicle had already had the factory bypass hose removed, hence why it wasn't used in the assembly, installation is neater using factory hose.

Supply hose from engine, ensure it clears the exhaust manifold and EGR cooler.



Supply Hose from Engine

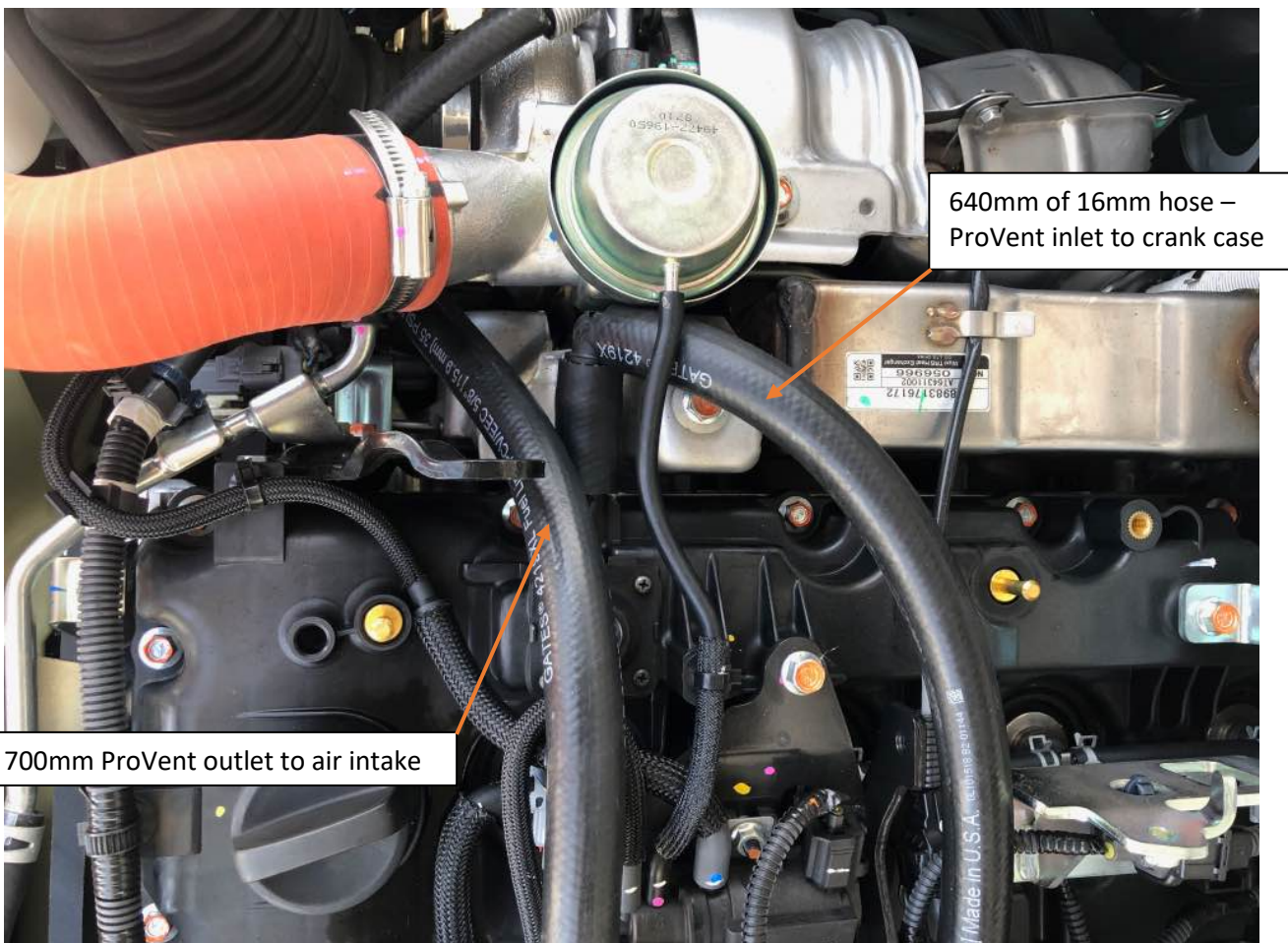
Return Hose to Air Intake



End of Installation Guide

Appendix

The hoses will need to be shortened to suit applications fitted with a DPF and connected as outlined in the following images.





700mm ProVent outlet to air intake

