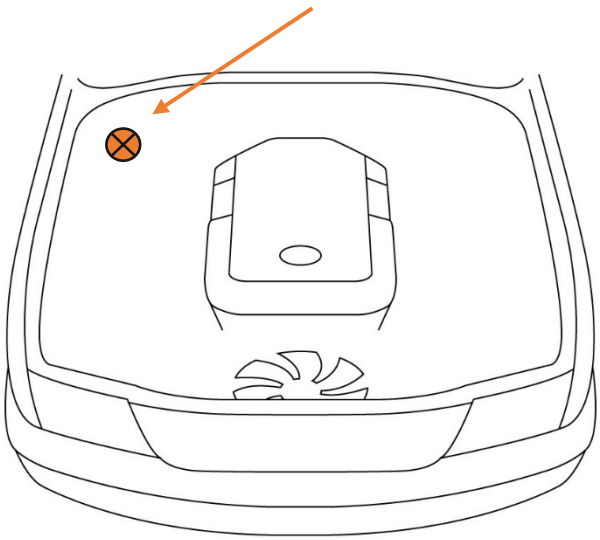
Mitsubishi Triton MQ 2015+ Direction-Plus™ ProVent® Ultimate Catch Can Installation Guide

This document is to be used as a guide for the installation of the **Direction-Plus™ ProVent® Ultimate Catch Can Kit to a 2015+ Mitsubishi Triton MQ 2.4L Diesel.** It is recommended that the installation of the product be carried out by a competent qualified mechanic.

Included in the kit

1 x Mann + Hummel ProVent® 200
1 x Mounting Bracket
1 x Mounting Spacer
1x 280mm of 19mm Hose
1x 160mm of 19mm Hose
1x 420mm of 19mm Hose
1x 65mm of 19mm Hose
4 x 19mm 90˚Joiners
10 x 19mm Spring Clamps
2 x 25mm Spring Clamps
2 x 19mm to 25mm Hose Coupler
8 x Cable Ties
1 x M8x16 Bolt
1 x M8 Flat Washer
1 x M8 Spring Washer
1 x M6 Nylock Nut
1 x M6 Flat Washer
2 x M8x25 Bolts
2 x M8 Flat Washers
2 x M8 Spring Washers
1000mm of 12mm Hose
1x Drain Tap assembly
2 x Hose Clamps

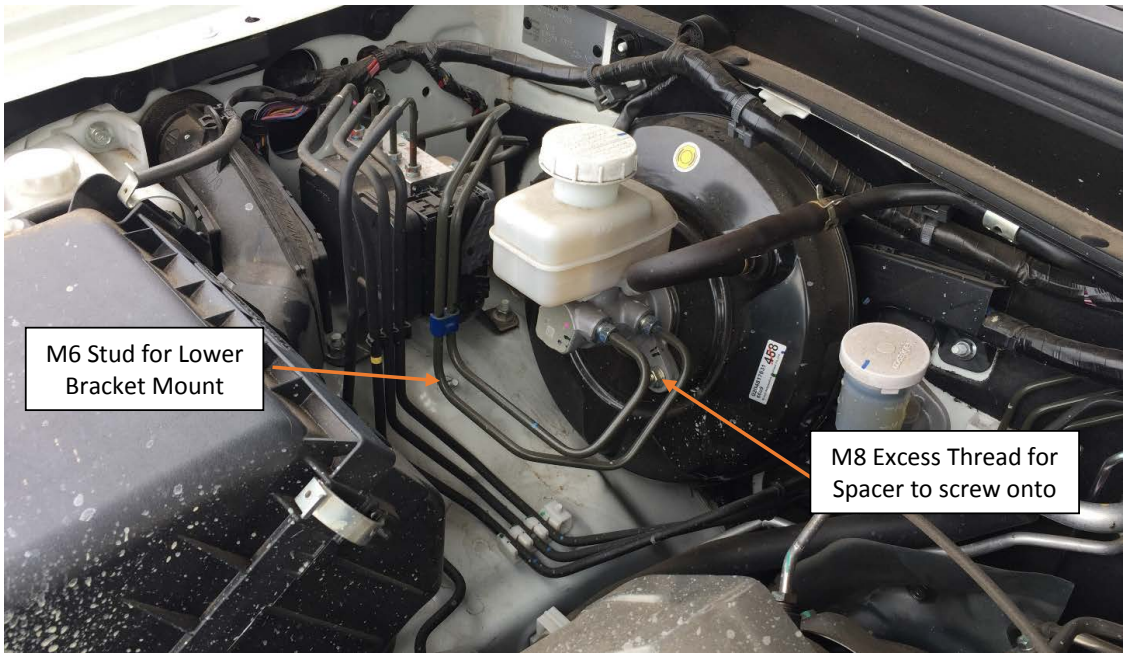
Approximate mounting location



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

Installation Guide

1. Begin by removing the factory engine cover. It is held in place by four bolts. Locate the factory bypass hose which runs from the driver's side of the top of the engine to the air intake pipe before the turbocharger. The hose is only about 300mm in length and shaped like an "L". Once located, this hose needs to be removed from the vehicle.



MQ Triton Rear Driver's Corner of Engine Bay

2. Thread the M8 alloy spacer onto the exposed thread on the master cylinder mounting bolt. Just tighten snug by hand. Secure the mounting bracket to the M6 stud on the inner guard and the alloy spacer using the M6 flat washer and nyloc nut, as well as the M8x16 bolt, M8 flat washer and M8 spring washer.

MQ Triton: ProVent® 200 mounting bracket in place.

3. Connect the 12mm hose if the drain kit to the underside of the catch can and use a 12-20mm Clamp to secure it in place.

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

4. Install the ProVent® 200 to the bracket using the supplied M8x25 bolts, flat washers and spring washers. Take care to feed the 12mm drain hose down the inner guard.

MQ Triton: ProVent® 200 bolted In place on mounting bracket.

Feed the 12mm drain 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 hose clamp.

Hose tail and tap assembly inserted into 12mm hose, hose clamp not required

5. Use the supplied cable ties to secure the 12mm drain 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.

6. 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.

7. Place the 25-19mm reducing couplers into the 25mm ports on the ProVent® 200. Secure in place with the large supplied spring clamps.

8. Place a 19mm plastic elbow into each of the reducers, using one of the smaller spring clamps to secure in place.

9. Connect the 420mm long hose to the lower side port on the ProVent®, using a spring clamp to secure it in place. To the other end fit a 19mm elbow and clamp.

10. Connect the 65mm long hose to the vacant turbo inlet pipe (the factory location you removed the stock hose from). Use a spring clamp to secure in place. To the other end connect the elbow from the 420mm line from the previous step, secure in place with a spring clamp.

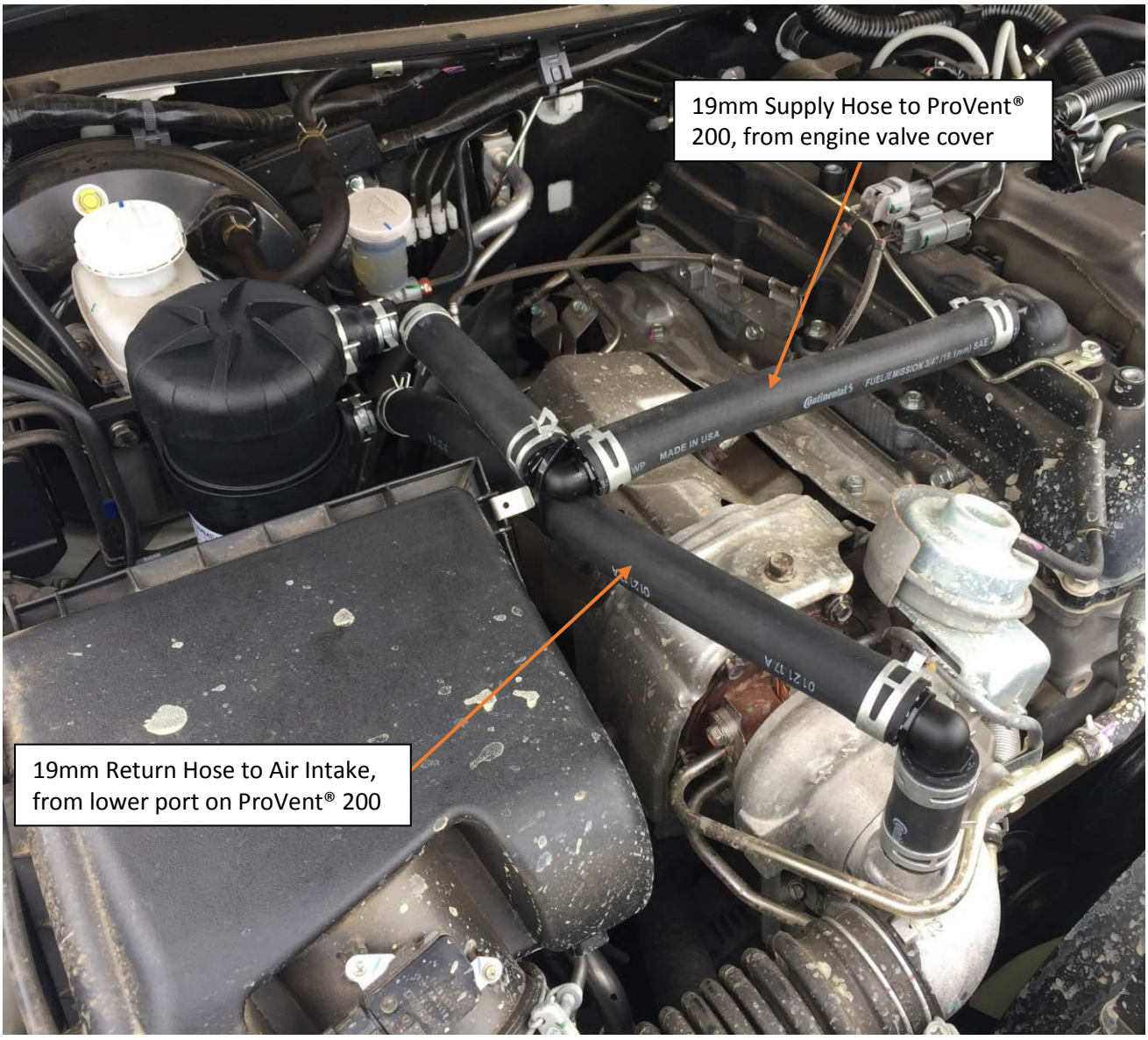
11. Mount one end of the 160mm to the Upper 16mm 90˚ joiner fitting on the ProVent® 200. Use a spring clamp to secure it in place. To the other end fit a 19mm elbow and clamp.

12. Connect the 280mm long hose to the vacant valve cover port (the factory location you removed the stock hose from). Use a spring clamp to secure in place. To the other end connect the elbow from the 160mm line from the previous step, secure in place with a spring clamp.

13. Use a cable tie to secure the two lines together to prevent anything from moving.

14. Reinstall the engine cover.

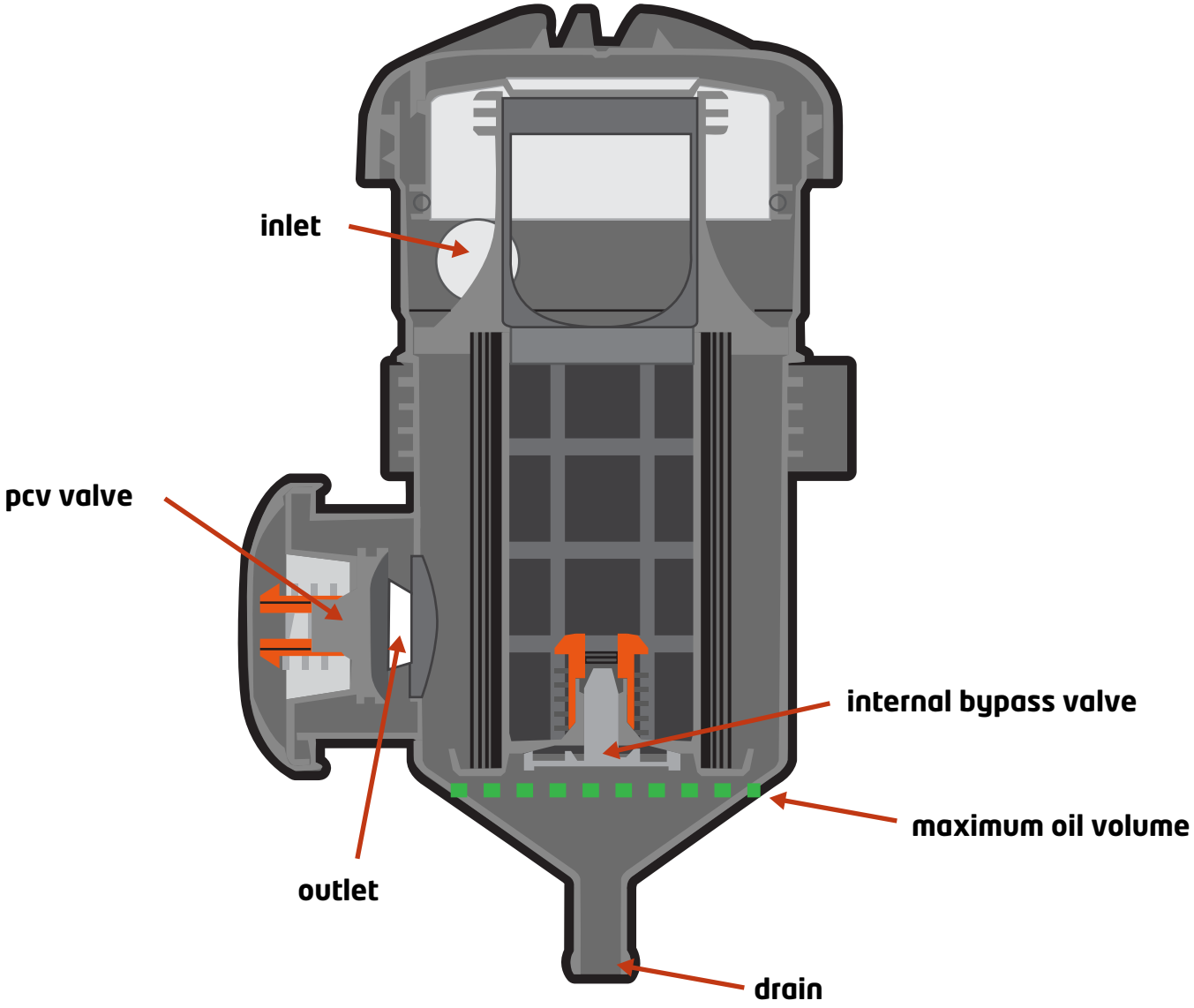
15. The ProVent® should be drained every 5000km. Filter elements should last an average of 40,000km



Engine bay hose locations for MQ Triton 2.4L diesel

End of Installation Guide

PV200 INTERNAL BYPASS VALVE SECTIONAL DIAGRAM



Due to the way the internally vented PV200 works, the PV200 must be drained regularly to ensure correct operation of the internal bypass valve. Failure to regularly draining/servicing the Catch Can may cause engine damage due to over pressurisation of the crankcase ventilation system.

The ■ ■ ■ in the diagram indicates the maximum permissible oil level. For the PV200 internal bypass valve to correctly operate the internal oil volume **MUST NOT** exceed the level indicated by the ■ ■ ■ shown in the diagram.

If the internal oil volume is to exceed the level indicated by the ■ ■ ■ shown in the diagram, the internal bypass valve cannot operate as designed due to it being submerged. This condition is likely to cause over pressurisation of the crankcase ventilation system and damaging the engine.

WARNING: Colder climates can cause increased condensation inside the Catch Can. This will fill the reservoir quicker than oil and will need to be drained regularly. Failure to do so could & can damaged the Catch Can or vehicle.

ProVent 200

The housing can (prior to installation) be turned in the holder in 30° steps around the longitudinal axis.

This enables the position "Inlet and outlet fitting to flange" to be flexibly adjusted to the installation situation.

- Remove the retaining clip (1) upward from the groove and turn the holder into the desired position.
- Press the holder together somewhat in the desired position and engage the retaining clip in the groove again
- Mount the holder in the vertical position. Recommended tightening torque for M8 screws: 10 Nm.
- Ensure sufficient strength of the screw and nut material.
- Connect the hoses to the inlet, outlet and oil return fittings (make sure a sufficient length of hose is pushed on) and secure with hose clamps (see Chap.4.2 and 4.3).
- Connect the oil return hose (and non-return valve if necessary) to the oil sump.
- To ensure proper functioning, the ProVent should be protected against dirt (mount splash guards if necessary).

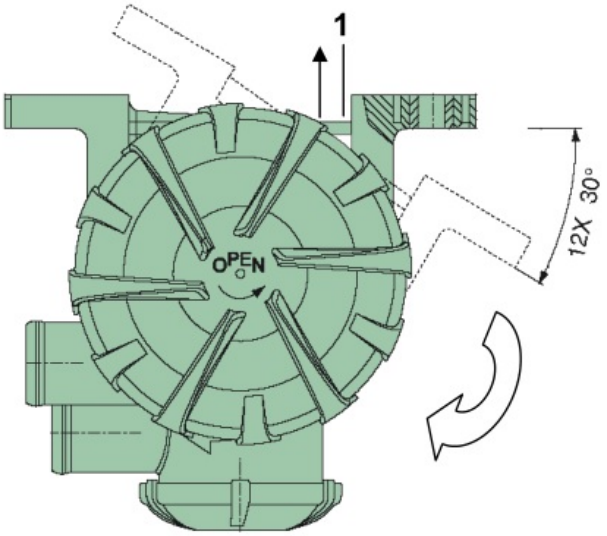


Fig. 5 Positions of outlet for ProVent 200

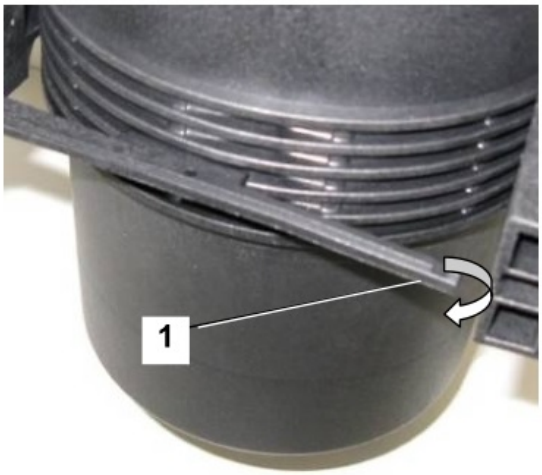


Fig. 6 Holder for ProVent 200