

# Toyota Land Cruiser Prado 150 Series 1GD-FTV ProVent 200 Installation Guide

## VERSION 2 BRACKET

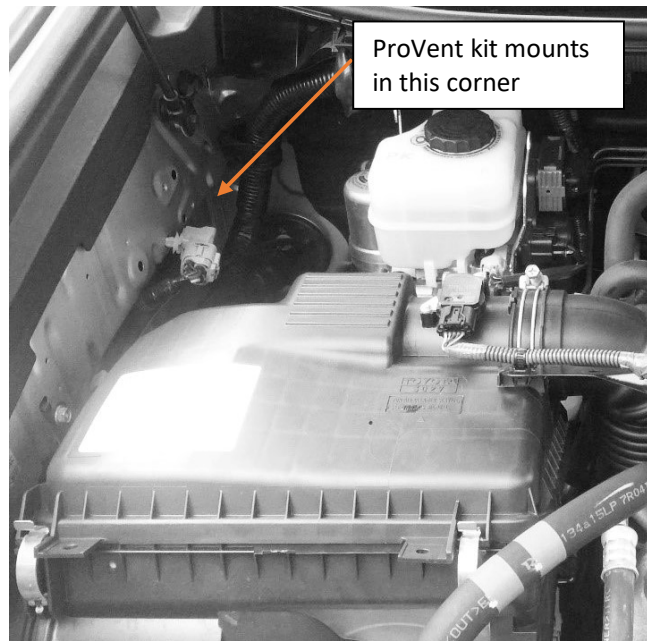
NEW BRACKET, EASIER & BETTER FIT COMPARED TO VERSION1

This document is to be used as a guide for the installation of the Direction Plus Land Cruiser Prado 150 Series ProVent 200 Crankcase Ventilation Kit to a 2015-2023 Toyota Land Cruiser Prado 150 Series Diesel with the 1GD-FTV 2.8L engine. It is recommended that the installation of the product be carried out by a competent qualified mechanic.

### Included in the kit

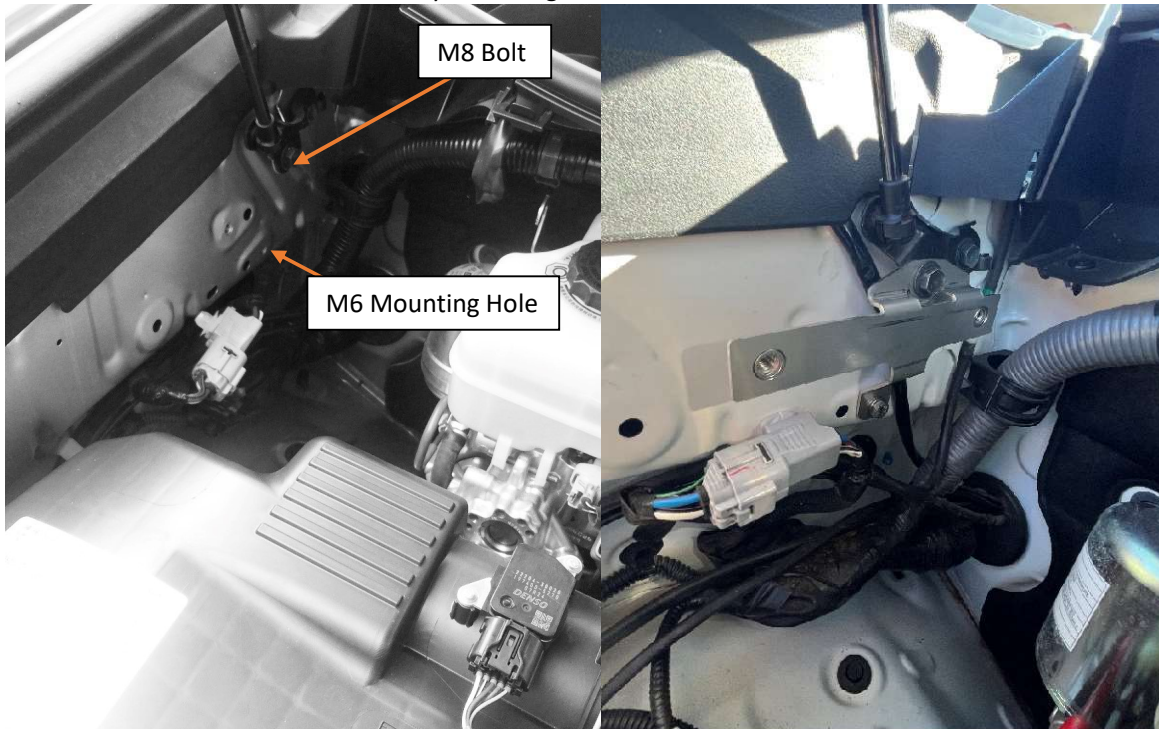
<i>Loose in Box</i>	<i>Bagged</i>	<i>ProVent Fitting Kit Bag</i>
1 x Mann + Hummel ProVent 200 (PV200DP)	2 x 16mm 90° Joiners (DPC9016)	2 x M8x25 Bolts (SSSS304M825)
1 x Mounting Bracket (PV631V2-BR)	6 x 16mm Spring Clamps (DPSC16)	2 x M8 Flat Washers (FMW8)
1 x 700mm of 16mm Hose (DPPH16)	2 x 25mm Spring Clamps (DPSC25)	2 x M8 Spring Washers (FMSW8)
1 x 600mm of 16mm Hose (DPPH16)	2 x 16mm to 25mm Hose Coupler (PV2516DP)	
	8 x Cable Ties (802078)	
	1 x M6x12 Bolt (SSSS304M612)	<i>ProVent Drain Kit Bag</i>
	1x M6 Spring Washer (FMSW6)	1 x 1000mm of 12mm Hose (DPFH12-PEX)
	1 x M6 Flat Washers (FMW6)	1 x Drain Tap Assembly (DPDRAIN)
	1 x M8 Spring Washer (FMSW8)	2 x Hose Clamps (DPSC16)
	1 x M8 Flat Washers (FMW8)	

### Installation Guide



*Land Cruiser Prado 150 Series Engine Bay – Driver's Side*

1. Begin by removing the lower bolt that holds the bonnet strut bracket in and bolt the new ProVent Bracket to the rear corner of the engine bay. It uses the bolt you just removed on the top and an M6 bolt and washer on the underside to secure it to factory mounting locations.



*Land Cruiser Prado 150 Series ProVent Bracket Mounting*

2. Connect the 12mm (1/2") 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 a clamp*

3. With a flat washer and spring washer on each of the M8x25mm bolts, mount the ProVent 200 to the mounting bracket.



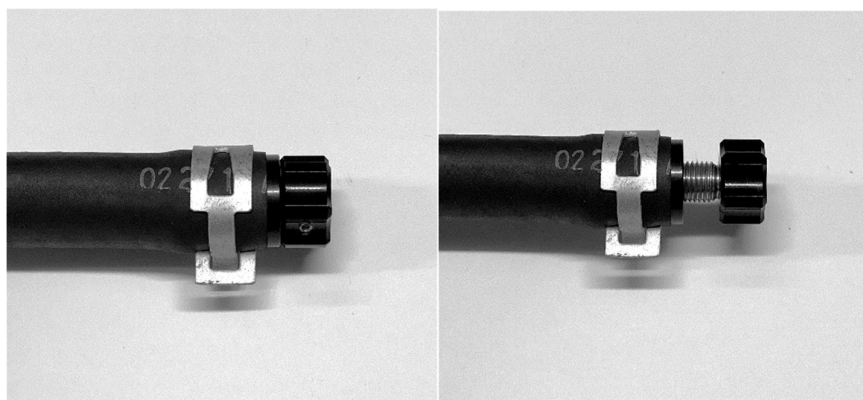
*Pre-assembled Provent 200 with bracket – Please note ProVent rotation in this image is correct, your ProVent should come at the correct rotation in the box – if it is not, refer to the image on the last page of this installation guide.*

4. Feed the 12mm Hose down the side of the engine bay, 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.



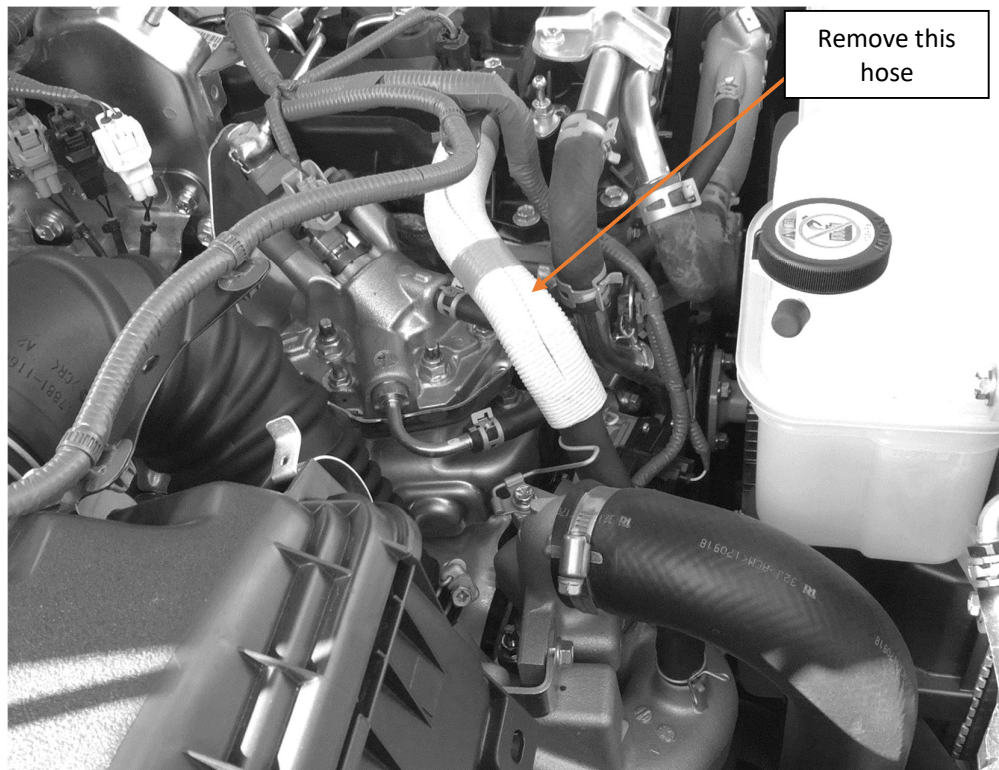
*Drain tap assembly inserted into 12mm hose, secured with a clamp*

5. Use the supplied cable ties to secure the 12mm hose into the location required under the vehicle to prevent movement. Note: 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.



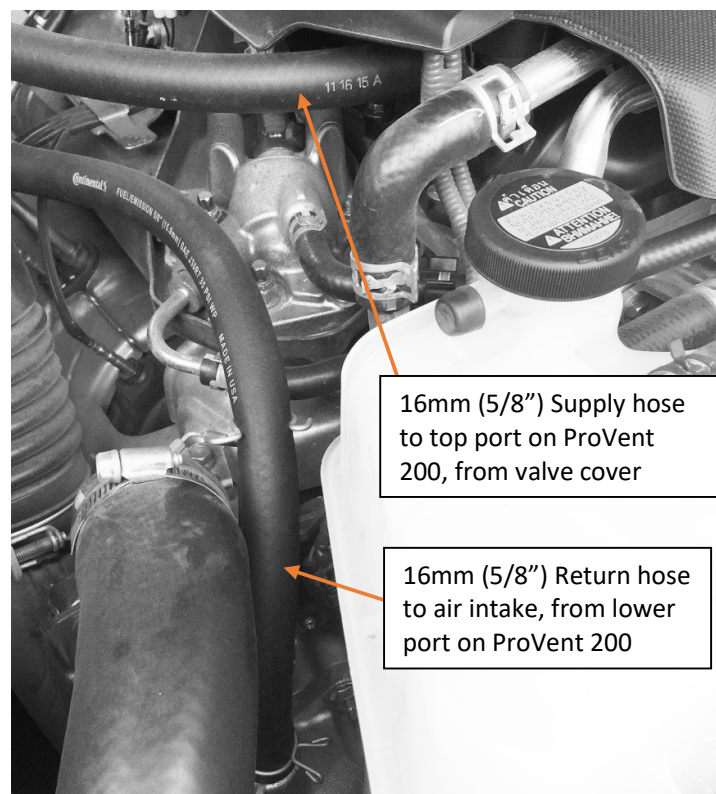
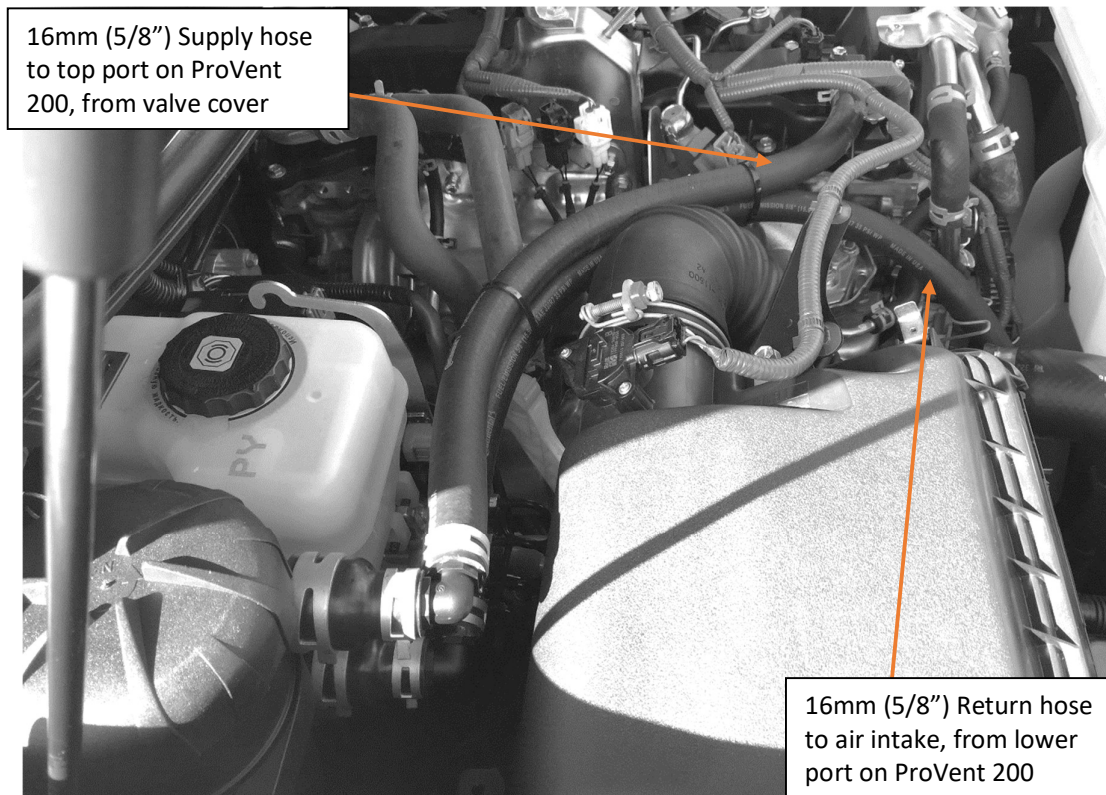
*Left image – Tap Open. Right image – Tap Closed.*

7. Remove the factory bypass hose from the valve cover on the engine, it is not reused in this kit.



8. Mount one end of the 600mm long 16mm (5/8") hose to the now vacant outlet on the valve cover of the engine. Secure in place with a clamp.
9. Run the other end of the 600mm long hose to the top 16mm (5/8") 90° joiner fitting on the ProVent. You may need to trim excess hose to suit your needs. Secure in place with a spring clamp.
10. Mount one end of the 700mm 16mm (5/8") hose to the lower 16mm (5/8") 90° joiner fitting on the ProVent 200. Secure in place with a hose clamp.
11. Run the hose to factory bypass hose port on the turbo inlet that was left vacant from the hose you removed earlier. Secure in place with a clamp.





*Hose configuration in Land Cruiser Prado 150 Series with ProVent 200 installed*

[End of Installation Guide](#)

### 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).

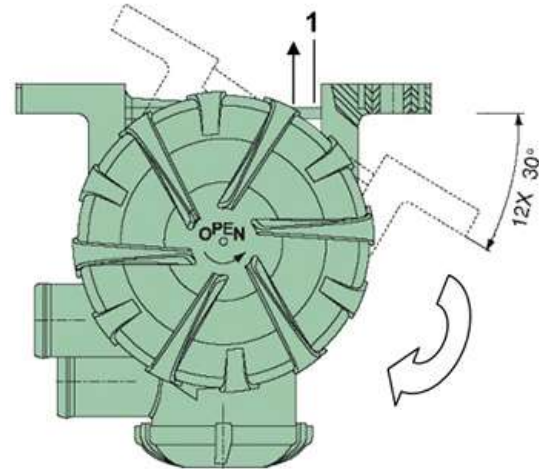


Fig. 5 Positions of outlet for ProVent 200

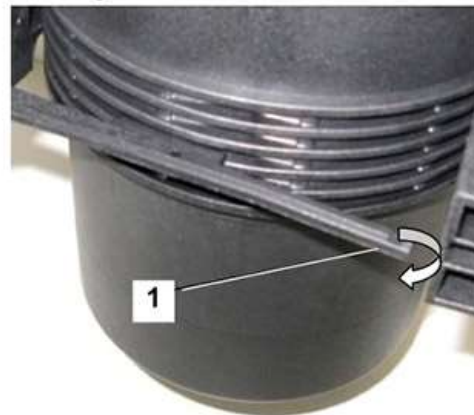


Fig. 6 Holder for ProVent 200