

Tech Tips

TT 24-13-05

Date: September 27, 2013

2012 Routan (Vehicles built before 5/17/2012) Squeaking Noise Coming from the Engine at Idle

The customer may hear a squeaking noise at idle. This may be caused by the PCV valve. The valve is mounted to the right rear cylinder head (Exhaust Camshaft).

The rear of the Camshaft boss (FIG 1-1), rides on the inside diameter of the PCV valve seal (FIG 1-2).

There is a centering boss internal to the valve, that may be causing the “squeaking” noise as it comes in contact with the boss.

Diagnosis:

1. Bring engine up to operating temperature by idling, with the transmission in park.
2. Use the chassis ear to isolate the source of the squeak.
3. Did the Chassis Ears determine that the “Squeak” is coming from the right rear valve cover?
 - a. Yes >>> Perform repair procedure.
 - b. No >>> Further diagnostics necessary to isolate where the noise may be coming from.

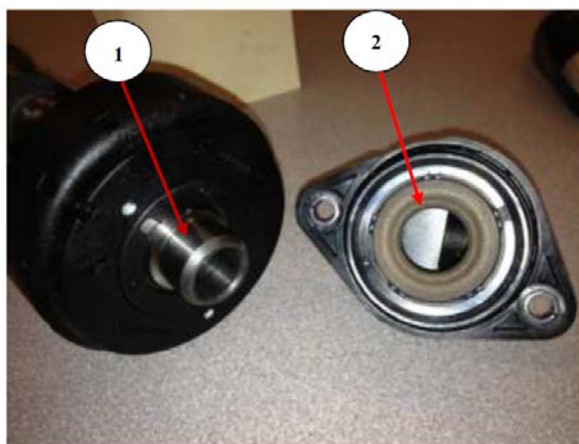


FIG 1



Tech Tips

Repair Procedure:

1. Remove and replace the PCV Valve. Refer to the detailed removal procedures available Elsa Web Repair Manual> Engine>Engine Mechanical, Fuel Injection and Ignition> 24 Multiport Fuel Injection> Removal and Installation> Positive Crankcase Ventilation Valve.

Parts Required: 7B0103245E Valve Positive Crankcase (PCV)

Verification: Bring engine up to operating temperature by idling with transmission in park and verify the noise is gone.