

Advanced Technical Information

Cayenne/Panamera
1201 1584

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Binder - Advanced Technical Information

Camshaft Adjuster Diagnosis

Attn: **Service Managers/Service Technicians**

Vehicle Type: **92A Cayenne S/Turbo
970 Panamera/S/Turbo**

Model Year: **2010 – 2012 (970 Panamera/S/Turbo)
2011 – 2012 (92A Cayenne S/Turbo)**

Concern: **Diagnosis of Failed Camshaft Adjuster Element**

Information: The following fault codes may be stored in the DME when a camshaft adjuster element fails:

Mass Air flow: P0068, P1074
Cylinder Misfire: P0300
Fuel Pressure: P1023, P1026, P1031, P053F
Camshaft sensor: P0340 – P0349
Camshaft adjustment: P000A, P0011, P000C, P0021



Figure 1

If it is suspected that the camshaft adjuster element has failed, the following diagnostic steps are recommended:

- 1.** Create a Vehicle Analysis Log (VAL) and evaluate the DME fault memory.
- 2.** If fault codes are stored related to intake camshaft timing, it is possible that the camshaft adjuster (Figure 1) has failed on the affected bank(s).
- 3.** Potential Bank 1 camshaft adjuster failure can be checked by removing the oil fill cap and watching camshaft movement. If the camshaft does not move while turning the engine over by hand then the Bank 1 camshaft adjuster may have failed.
- 4.** The Bank 2 camshaft adjuster element can be visually inspected by removing the cylinder head cover.

Information:
(cont'd)

5. If the bolt heads of either camshaft adjuster element have broken (Figure 2), an engine repair vs. engine replacement analysis must be performed as per the published Warranty Policy & Procedures.
6. If an engine repair is deemed feasible then both Bank 1 and Bank 2 adjuster elements must be replaced.

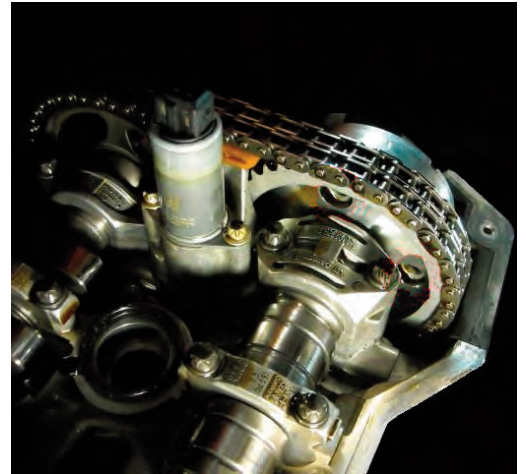


Figure 2

Dealership	Service Manager	Shop Foreman	Service Technician				
Distribution							
Routing	Asst. Manager	Warranty Admin.	Service Technician				

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