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Title: **A26 Engine Rough Running and or Misfire Complaints**

Applies To: **A26 Engines**

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

01/04/2019 - Initial Article Release

DESCRIPTION

This document will guide the user to other possible causes for a rough running or misfire condition on the A26. Please note that FCAP's should always be followed first if any fault codes are present. This article is intended for use when no fault codes are present, or the published diagnostics do not lead to root cause. Typically, this information applies to engines in excess of 100K miles.

SYMPTOM(s)

The engine may have a rough idle, stumble on acceleration, or an engine vibration complaint. This may or may not be accompanied by a check engine light or an active DTC.

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

There are many diffrent DTC's that could be present causing the rough running or misfire complaint. **Published FCAP's should always be followed first for any codes that are present.**

Customer Observations or Concerns:

Some driver complaints are below but are not limited to:

- Rough idle or dies at idle
- Rough running, stumble on acceleration or engine vibration
- Hard starting
- Valve train noise
- Check engine light
- Low power, overall loss of performance

REPAIR STEP(s)

WARNING! To prevent property damage, personal injury, and / or death, park vehicle on a hard, flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in either direction.

WARNING! To prevent property damage, personal injury, and / or death, if the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over.

WARNING! To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.

WARNING! To prevent property damage, personal injury, and / or death, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.

WARNING! To prevent property damage, personal injury, and / or death, remove the ground cable from the negative terminal of the battery box before disconnecting any electrical components. Always connect the ground cable last.

1. If any valve train noise is heard from the top end, please referernce IK1201410 to see if a failed rocker arm may be present.
2. If the valve train is not in question and no abnormal engine noise is heard, the cause may be an EGR valve failure.

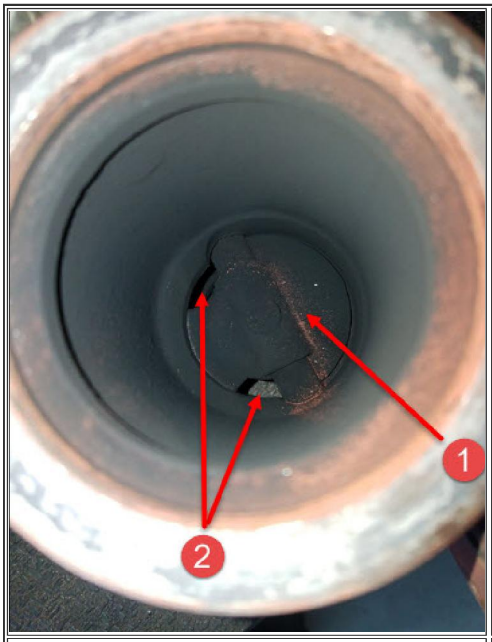


Figure #1: Failed EGR Valve Butterfly

Item 1: EGR Valve butterfly
Item 2: Pieces missing from the butterfly



Figure #2: Failed EGR Valve Butterfly

Item 1: EGR Valve butterfly
Item 2: Pieces missing from the butterfly

3. Remove the EGR valve from the engine and perform a visual inspection. Inspect the butterfly (Figure 1 & 2, Item 1) for any broken or missing pieces (Figure 1 & 2, Item 2). If any are found, the EGR valve will need to be replaced.

- This failure mode can be present and not set any DTC's. This will cause many of the operational symptoms listed above and should be considered if none of the other diag leads you to root cause.

- The actuator test will also pass via NED as the valve will open and close as commanded, therefore the visual inspection is required to properly identify a damaged butterfly.

4. If the visual inspection passes, plug the valve in and run the actuator test in NED. Watch the movement of the butterfly making sure it actually moves with the shaft. If the pin shears that secures the butterfly to the shaft, the butterfly is free to move on it's own and can also cause the operational complaints listed above.

Warranty Claim Coding:
Refer to the Warranty Coding Manual for Group and Noun Codes.

Standard Repair Time(s):
Refer to the SRT Manual for Repair Times

OTHER RESOURCES

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