

febi 171970, 172004



To Fit:
various Volkswagen, Audi,
SEAT and Skoda models

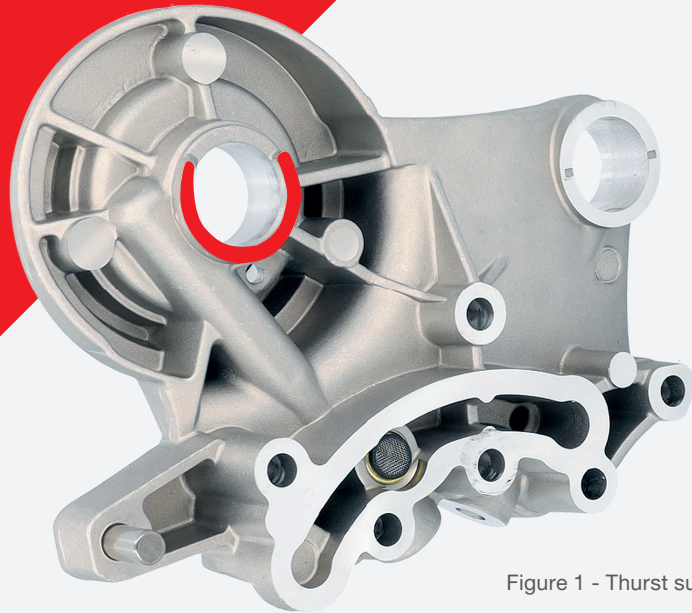


Figure 1 - Thrust surface

Bracket for camshaft

EN

Problem

The engine-cranking time before starting is extended, and/or there is a 'rattling' noise from the engine area. The engine management fault lamp is illuminated and/or the engine is not starting.

The following fault codes may be stored:

- P0016 Camshaft timing advance (Bank 1) target value not attained.
- Other fault codes can also be stored at the same time.

Cause

Elongation of the timing chain. Failure of the oil non-return valve for the camshaft timing control.

However, on some 2016 and 2017 model year vehicles equipped with the 2.0 TFSI engine with engine codes CPMB, CAED or CCTA, fault code P0016 may be set due to a worn intake side and camshaft bearing bridge thrust surface.

Solution

If the following fault code is stored in the engine control module memory: 'P0016 Camshaft timing advance (Bank 1) target value not attained', proceed as follows:

- Measure the 'end play' of the intake camshaft.
- If the 'end play' of the intake camshaft is less than 0.2mm, it is within the manufacturer's tolerances. The cause of the fault code could be excessive elongation of the timing chain or failure of the oil non-return valve for the camshaft timing control, which will require further investigation before proceeding.
- If the 'end play' of the intake camshaft is greater than 0.2mm, replace the camshaft bearing bridge with the improved febi part 171970 or 172004 which has a 50% larger thrust surface area than the original. (Fig.1) This matches the OE part 06H 103 144K which was brought into vehicle production in October 2017.
- It is also recommended that the engine oil and filter are replaced as part of this repair.

For more technical information please visit: partsfinder.bilsteingroup.com