

SWAG 11 10 4929

To fit: MINI Cooper S and Cooper JCW (R52, R53)



TVD Pulley for crankshaft

Problem

Battery warning lamp and engine warning lamp illuminated while driving.
 Engine running rough and stalling.
 Hot rubber smell and smoke coming from auxiliary belt area.
 Fault code logged in the engine control unit: P1688 – Electronic throttle monitoring, level 2/3, air mass – calculation error

Cause

The torsion vibration damper (TVD) crankshaft pulley rubber bonding has deteriorated to the point of failure. This disrupts the auxiliary belt drive to the alternator, air conditioning pump and the supercharger. (Fig.1)

Due to the auxiliary belt not running correctly, the supercharger is not being driven or rotating properly. Therefore, the engine is not receiving the correct air/fuel mixture, logging fault code P1688, which can be misleading in diagnosing this fault.

Solution

Check the condition of the auxiliary belt drive system, including the belt, tensioner, all pulleys and the TVD. Replace all damaged and worn parts as necessary and clear any fault codes using a suitable diagnostic tool.



Figure 1

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