

Technical Bulletin

Dual Mass Flywheel

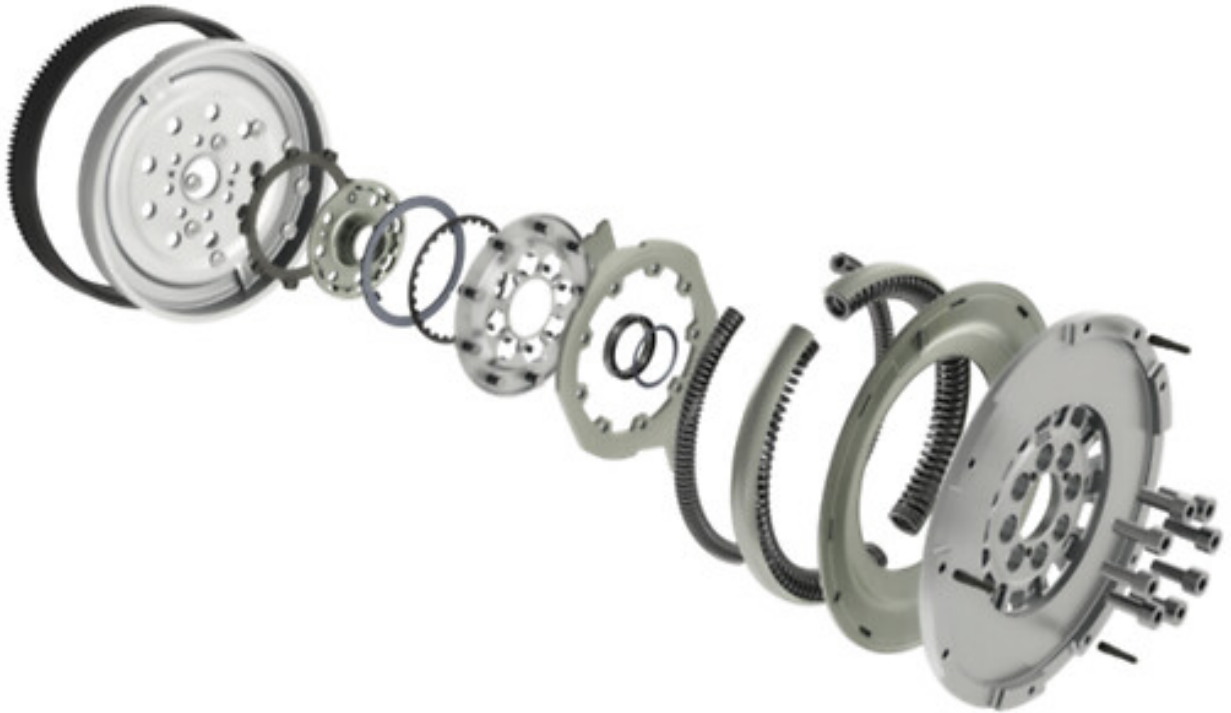
Vehicle Type

All PC and HD

Dual Mass Flywheel Failure Diagnostic

BACKGROUND

- The flywheel is between the engine and The drive plate
- The flywheel is connected to the engine crankshaft
- The teeth ring around the flywheel permits the engagement of the starter pinion to start the engine.



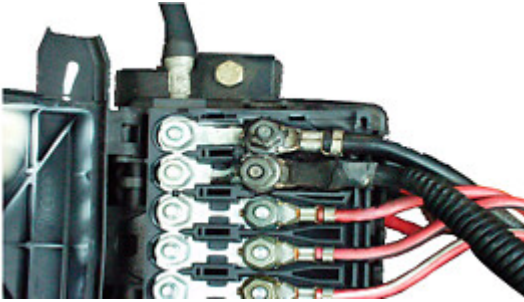
Starting problem

ANOMALY OBSERVED

Teeth ring for TDC sensor

POSSIBLE CAUSE

- The vehicle will not start, or engine rpm is unstable
- The DMFI has a different number of teeth than the original, generating a read failure of the TDC sensor.
- Flywheel bad handling and a tooth is damaged



Noise

ANOMALY OBSERVED

Electrical system failure, saturation of the dual mass flywheel damper during engine start

POSSIBLE CAUSE

- The battery charge is not sufficient
- One or more glow plugs is not warming by extreme cold
- Faulty fuel supply,
- The alternator or starter is not suitable to the car
- Problem of the electrical circuit of the starter



Noise

ANOMALY OBSERVED

DMF springs guide failure

POSSIBLE CAUSE

- The centrifugal load pushes the springs against the spring guides and creates friction.
- This friction wear the springs turn and break it. With the time the spring machining the primary flywheel.
- Impact on the gearbox house too



Slipping / Noise

ANOMALY OBSERVED

Grease on the DMF

POSSIBLE CAUSE

- The grease trapped which serves to reduce the curves springs wear effect came out of his house, and pollutes the linings
- The ejection of the grease reduces the filtering capacity of the springs also generating some noise at different rpm.