

NEW PRODUCT HIGHLIGHT | APR2022

SWAG 33 10 3243

SWAG[®]

To fit:

Chevrolet Malibu (V300), Vauxhall/
Opel Astra J, Cascada (W13),
Insignia A (G09), Zafira C (P12),
SAAB 9-5 (YS3G)

Engine: 2.0 CDTI



EN

Inlet manifold with swirl flap actuator and gasket

Function

The main purpose of the inlet manifold is to evenly distribute the intake air charge into each intake port of the cylinder head. Swirl flaps are fitted to the intake manifold, close to where it connects to the cylinder head. The positions of the flaps are controlled by an actuator, depending on the engine speed and load. The swirl flaps are closed at idle speed and gradually open as the engine speed increases, until reaching the fully-open position (parallel to the direction of airflow). This introduces turbulence into the intake charge, creating a good air/fuel mix at low-to-mid engine speeds - which in turn helps to reduce vehicle emissions.

Cause of failure

Exhaust gases from the EGR system mix with oil vapour from the crankcase ventilation system, causing oily deposits to form inside the inlet manifold. These deposits harden, restricting the operation of the swirl flaps and putting strain on the spindles. Eventually the shaft will cease to move if it is not replaced.

The vehicle suffers from loss of power and abnormal noises coming from the engine compartment while the engine is running, which in turn illuminates the engine warning lamp. Therefore, the engine control unit may have the following fault codes stored, relating to this issue:

P2015 - Malfunction of the swirl flap solenoid valve.

P0234 - Boost pressure too high.

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