

Fuel vapour recirculation circuit: Function

D4F or F4R or K4J or K4M or M4R

WARNING

The breather must not be blocked during normal engine operation.

The tank is vented through the fuel vapour absorber.

Fuel vapour is trapped by the active carbon contained in the absorber as it passes through.

Fuel vapour trapped in the absorber is eliminated and burnt by the engine.

To do this, the solenoid valve is used to connect the fuel vapour absorber and the inlet manifold. This solenoid valve is located on the right-hand shock absorber turret or on the inlet manifold (M4R engine).

The principle behind the solenoid valve is to open a passage of variable size (according to the opening cyclic ratio signal sent by the injection computer).

The variation in the passage opened for fuel vapour in the solenoid valve results from the balance between the magnetic field created by the supply to the winding and the return spring force attempting to close the solenoid valve.