

01-040 Engine breather — Functional description

The engine has a closed, service-free crankcase breathing system. The engine blow-by gases and cylinder crankcase vapors flow through connection (1) in lefthand cylinder head cover (in driving direction) to idle air distributor (4). The idle air distributor is provided with a bleeder throttle (3) of 2 mm dia.

From the bleeder throttle the flow-by gases and crankcase vapors are flowing with the idle air through a distributing pipe to the two idle air ducts (one duct per cylinder bank) cast onto intake pipe. From here, they are guided directly into the intake ducts and from there to the combustion chambers.

From the breather connection (2) of the righthand cylinder head cover the breather line extends directly to the clean air end in air filter.

In the lower and medium driving range the intake pipe vacuum, which is transmitted via the lefthand venting line to the cylinder crankcase, supplies the engine with fresh air via the righthand cylinder bank. This means that the air filter draws clean air through the breather line.

The upper driving range will also be bled. The blow-by gases and crankcase vapors are flowing into air filter and through throttle valve housing into intake pipes and combustion chambers.

To prevent freezing of condensate in bleeder throttle at low ambient temperatures, the idle air distributor is heated by the refrigerant.

