Engine Construction





Engine identifying features

The same engine, jointly developed by BMW Group and DaimterChrysler, is used in both MIMI versions. The main visual difference between the two is that the supercharged engine (Cooper S) is equipped with the supercharger on the lower right front of the engine and the intercooler housing on the top and front of the engine.

ENGINE CONSTRUCTION

The engine block and bearing support ladder are constructed from cast iron with an aluminum alloy cylinder head. The oil pan is manufactured from aluminum alloy to reduce weight. Despite the iron block and bearing ladder, the engine is very light at 129.22 kg (285 (b). Main features of the engine include:

- 16 volves
- Single overhead chain driven camehalt
- · Hydraulic Wiers.
- Engine drive belt with automatic tension adjustment.
- Superchanger (Cooper S models)

Engine block

The engine block is manufactured in two halves from sand cast nodwar iron. The top portion (main cylinder block) includes the cylinder bores and has provisions for five main bearing top shells. The lower portion (bearing support ladder) incorporates the lower main bearing shells and support for the rear main oil seal.

The engine block and ladder are machined as a matched pair and are not serviced as individual components. Three locating dowels. are used to ensure perfect alignment between the bearing ladder and the engine block. A number is stamped on the engine block and the same number is stamped on the bearing ladder. This ensures that the matched pair of components remain together during engine assembly. The engine plant sensi number is also alterspection to blook.











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