

Removal and Installation of Engine

Job-No.

01 — 4

Normally when repairs are being carried out, only those assemblies and engine parts are removed which have to be repaired or tested. The procedures have therefore been subdivided and arranged so that in each section all the operations for removal and installation of the assembly or the part in question are given. If an engine has to be completely disassembled, the operations given in Sections A—Q must be carried out.

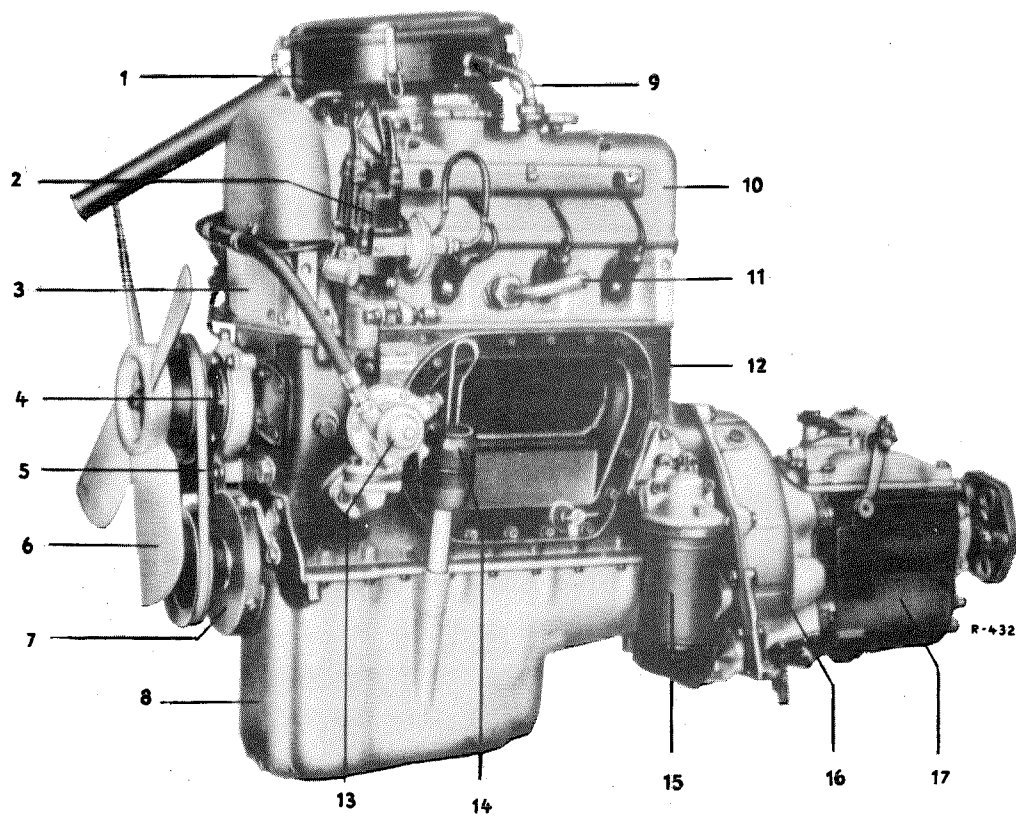
- A. Removal, installation and adjustment of carburetor
- B. Removal and installation of intake and exhaust manifold
- C. Removal and installation of cylinder head, valves, camshaft, chain tightener, tension sprocket and rocker arms
- D. Removal and installation of generator
- E. Removal and installation of water pump
- F. Removal and installation of distributor with bearing
- G. Removal and installation of distributor drive and oil pump drive
- H. Removal and installation of fuel feed pump
 - I. Removal and installation of oil filter
- K. Removal and installation of oil relief valve in crankcase
- L. Removal and installation of oil pan
- M. Removal and installation of oil pump
- N. Removal and installation of counterweight on crankshaft
- O. Removal and installation of crankshaft with flywheel
- P. Removal and installation of pistons connecting rods
- Q. Disassembly and assembly of crankcase
- R. Removal and installation of front sealing ring for crankshaft with engine in vehicle
- S. Removal and installation of flywheel
- T. Removal and installation of twin roller chain with engine in vehicle

Clean and test all parts and assemblies which have been removed. Any damaged small parts, such as screws, nuts, washers, lockwashers, etc. must be checked to see if they are fit for re-use. If necessary, they may be machined where practicable. They must not be reinstalled in damaged condition.

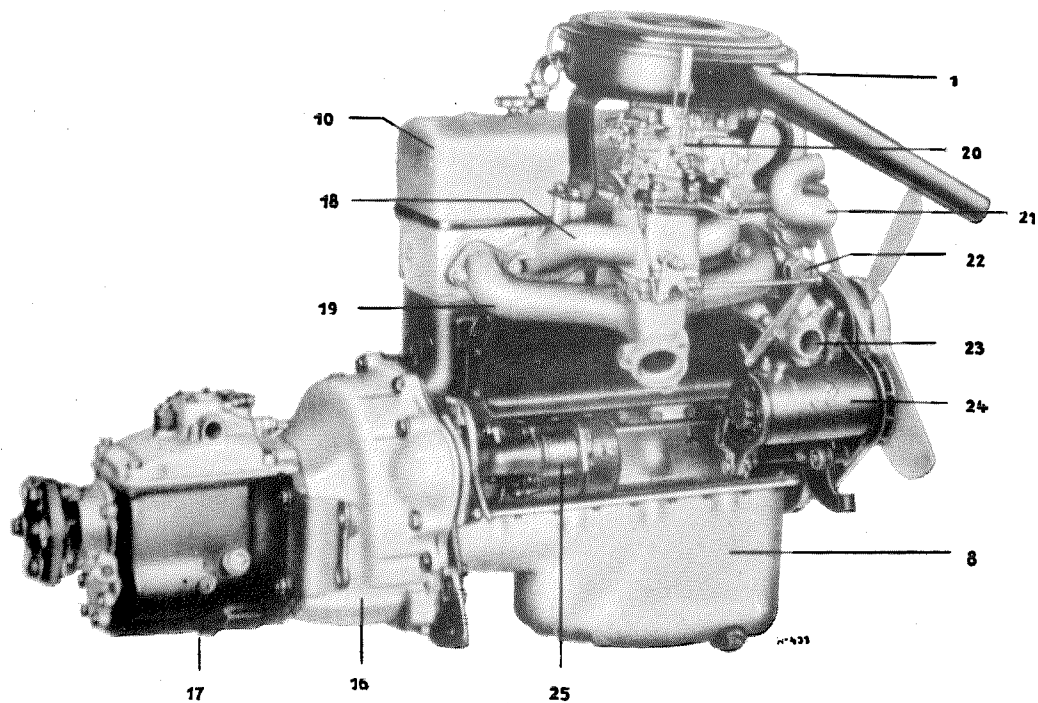
Gasket, sealing washers, locking plates, split pins, etc. must always be replaced.

All ground and precision parts — and in particular their bearing surfaces — must be examined before being reinstalled in the engine. Any damaged bearing surfaces must definitely be remachined. Check surfaces for burrs.

Engine M 121 B.I.



Spark plug side



Carburetor side

- 1 Air intake silencer
- 2 Distributor
- 3 Cylinder head
- 4 Water pump
- 5 Fan belt

- 6 Fan
- 7 Front counterweight on crankshaft
- 8 Oil pan
- 9 Vent tube

- 10 Cylinder head cover
- 11 Heater union
- 12 Crankcase
- 13 Fuel pump
- 14 Oil dipstick

- 15 Oil filter
- 16 Clutch housing
- 17 Transmission
- 18 Intake manifold
- 19 Exhaust pipe

- 20 Carburetor
- 21 Cooling water return pipe
- 22 Chain tightener
- 23 Cooling water feed pipe
- 24 Generator
- 25 Starter