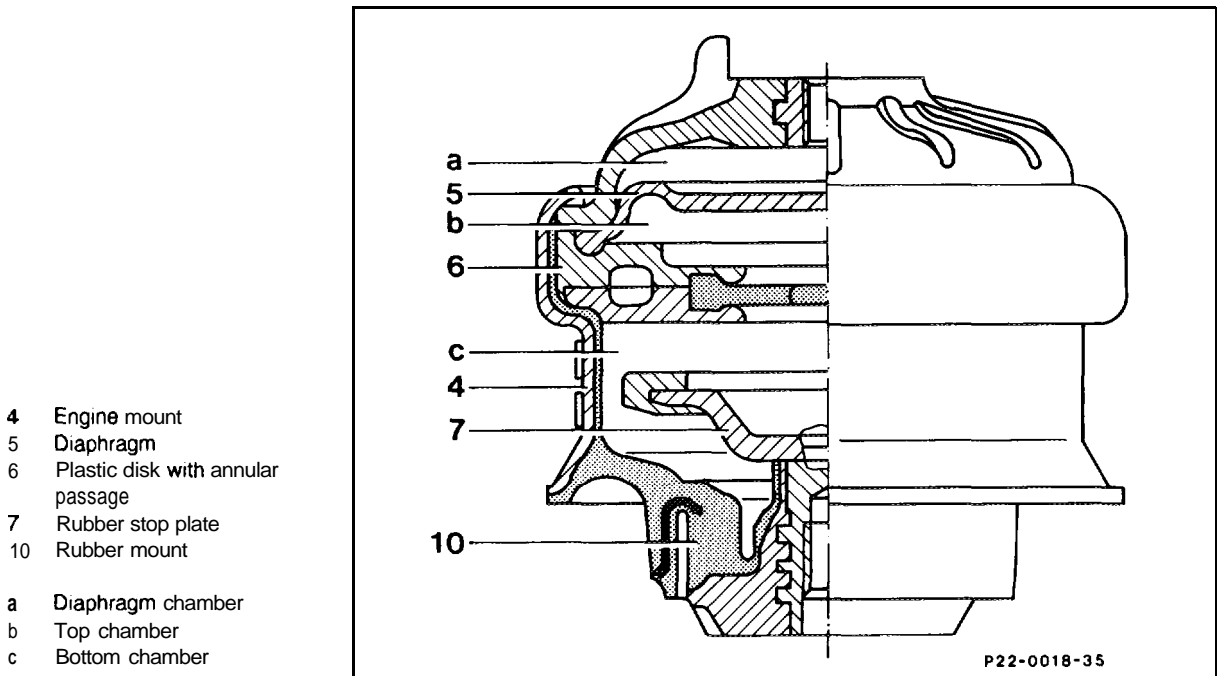




Job No.

Function of hydraulic engine mounts	22 - 210
Removal and installation of front engine mounts	22 - 211
Removal and installation of rear engine mount	22 - 212

22-210 Function – hydraulic engine mounts



All parts of the engine suspension are maintenance-free.

The hydraulic engine mounts differ in their bearing capacity on left and right.

To avoid accidental interchange, the Part No. is stamped on the housing.

The engine mounts are filled with a glycol mixture.

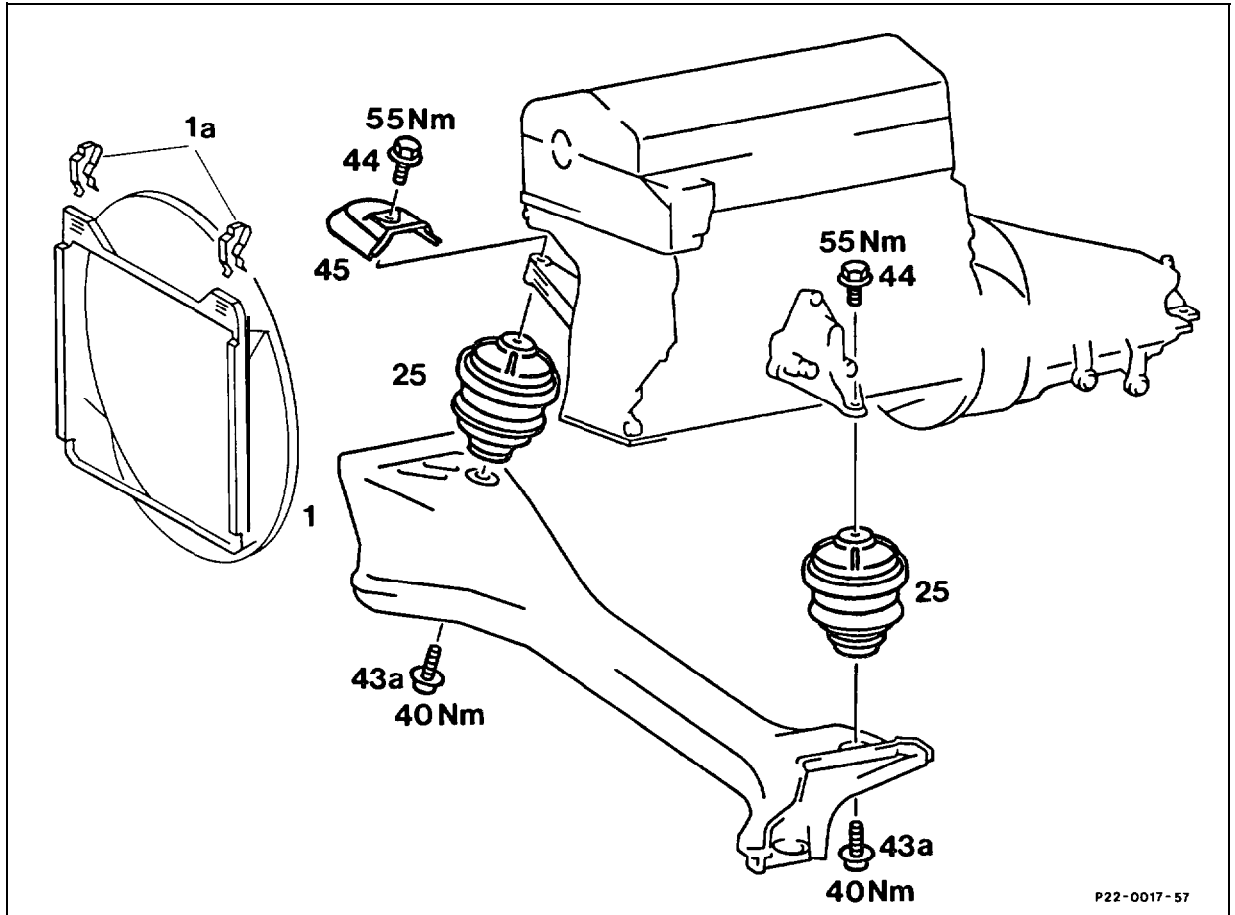
The two chambers (b and c) provided in the engine mount are linked by an annular passage in the plastic disk (6), through which the liquid flows into the respective chamber depending on compression or extension. As a result, a damping function takes place simultaneously in the annular passage.

Air is admitted to and released from the diaphragm chamber (a) in the top chamber through two passages (4 mm dia.) (arrow).

A rubber stop plate (7) connected to the base of the bearing and which limits the engine amplitudes, is located in the bottom chamber (c).

22-211 Removal and installation of front engine mounts

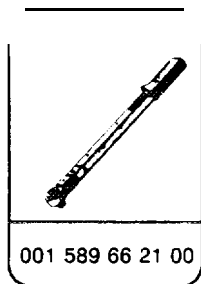
Preceding work:
Engine compartment panelling removed (01-006).



Hex. socket bolts (43a)	at bottom, unscrew, screw on, 40 Nm (step 1).
Both hex. bolts (44)	at top, unscrew, screw on, 55 Nm and take off heat guard (45), fit on (step 2).
Fan cowl (1)	detach, attach, place over fan (step 3).
Engine	raise with engine hoist, remove engine mounts (steps 4 and 5).

Note
When inserting engine mounts, ensure they are properly located.

Special tool



Commercial tool

Engine hoist No. 3188 self-locking

e.g. Backer, Herder Str.
D-5630 Remscheid

Note

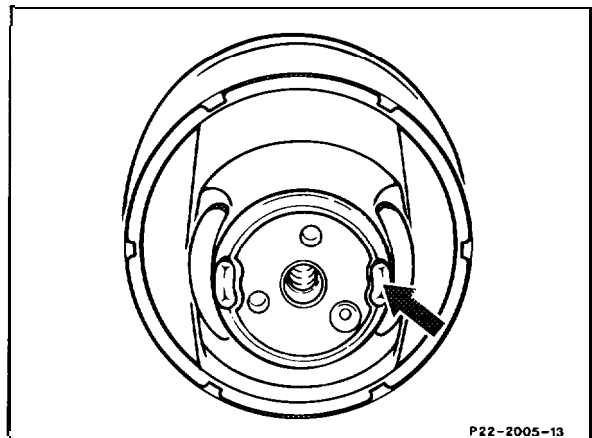
Since February 1989 (phased-in to series production) 2 mm higher engine mounts have been installed. In addition, recesses (arrow) have been provided on the bottom of these engine mounts and lugs on the engine crossmembers. This enables the engine mount to be installed free of tension.

The modified engine mount has been installed as a standard feature as of August 1989.

The modified engine mounts can also be installed on vehicles manufactured prior to this date.

Ensure that the engine mounts are installed free of tension.

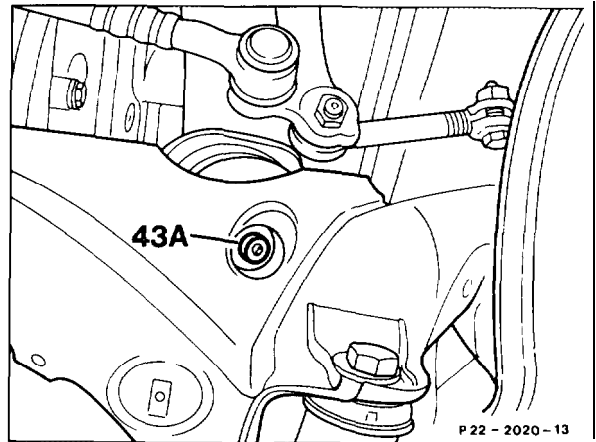
Engine mounts of the previous and the modified versions must not be installed in combination.



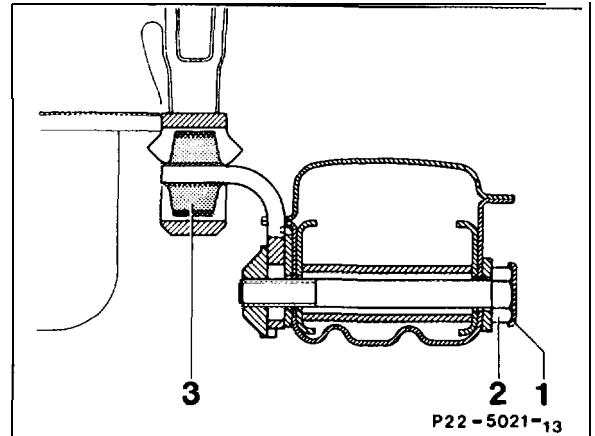
Removal and installation

- 1 **Unscrew** hex. socket bolts (43a) for bottom engine mounts, bolt on, tightening torque 40 Nm.

Hex. socket bolt, right

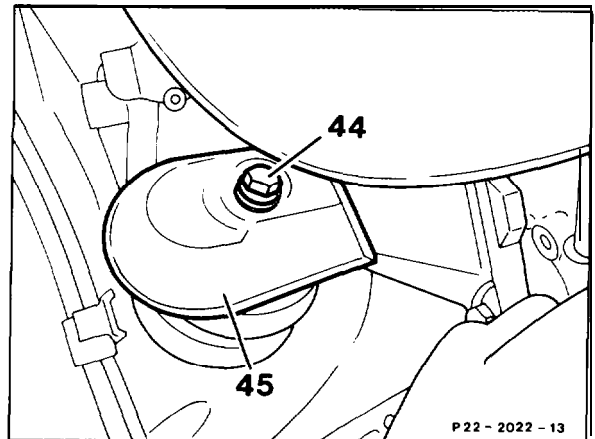


Hex. socket bolt, left

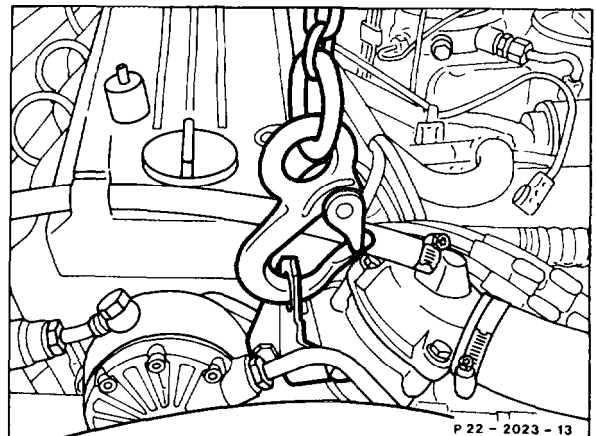


- 2 **Unbolt** both top engine mount fastening bolts (44), tightening torque 55 Nm.

- 3 Detach fan cowl, attach and place over the fan.

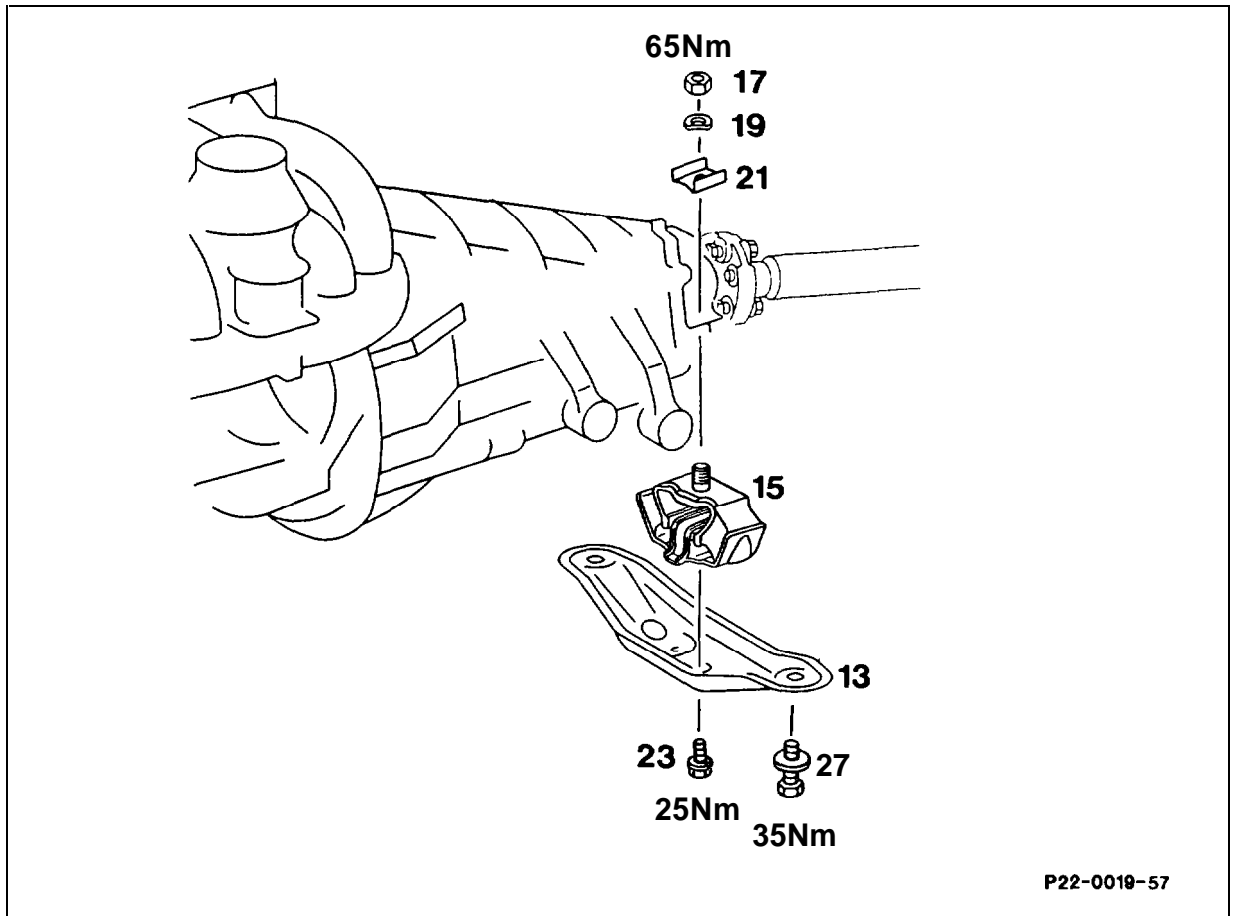


- 4 Attach cables of engine hoist to front lifting lug (arrow) and raise engine with a crane, lower.



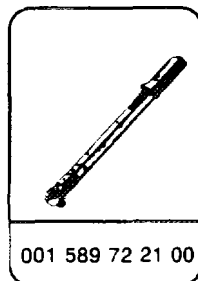
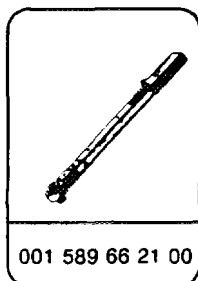
5 Remove engine mounts, insert. Ensure they are properly located.

22-212 Removal and Installation of rear engine mount



crossmember (13)	unbolt, bolt on. Bolt (23), M8 25 Nm Bolt (27), M10 35 Nm (step 1)
Engine mount (15)	remove and install, M12 nut 65 Nm (step 2).

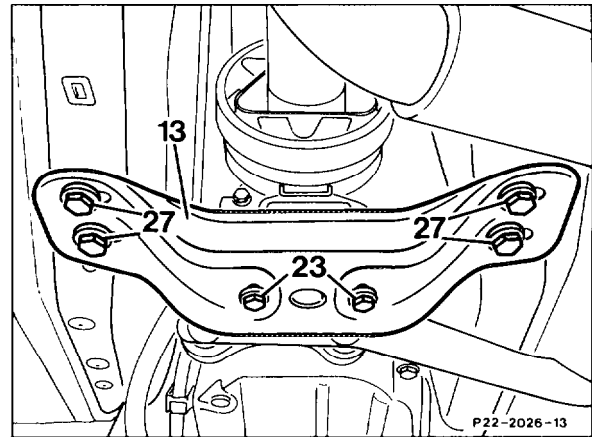
Special tools



Removal and installation

1 Unbolt crossmember (13), bolt on. Raise transmission slightly for this step.

Tightening torques: Bolt (23) 25 Nm
Bolt (27) 35 Nm



2 Remove nut (17), screw on, detach engine mount (15), attach.

Tightening torque 65 Nm.

Note

Install the shaped washer (21) so that the open side is facing up.

