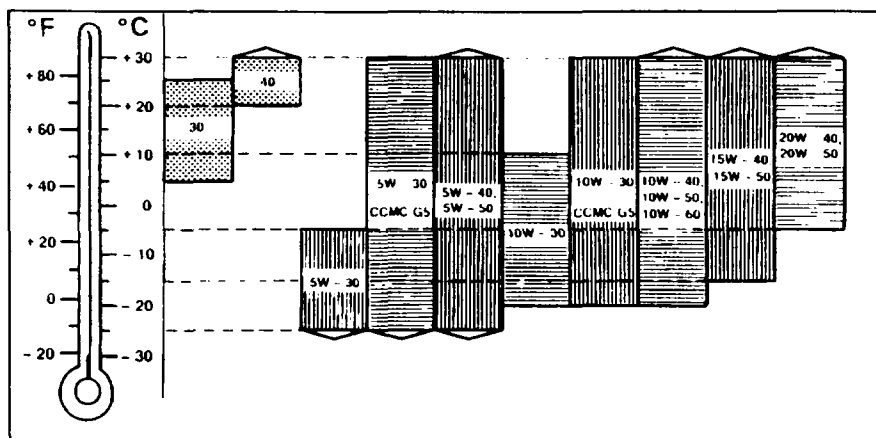


18-0020 Engine oil and filter change

Preceding work:
Warning instructions when hood open (01-0085).
Air cleaner removed (09-1031).

Operation no. of operation texts and work units or standard texts
and flat rates
00-6200

Specified viscosity classes according to SAE at prolonged outside temperatures



P18-5179-33A

Precise use of the SAE classes according to the outside air temperatures would necessitate frequently changing engine oil. The temperature limits for the SAE classes should therefore be regarded as a guide which may be transgressed for brief periods.

Refer to the "Service Product Specifications" for further information on specified viscosity classes and approved engine oils.

Oil capacity in litres

| Engine | Model | Capacity when changing oil and filter | Dipstick marking (see 18-3500) | |
|---------|--------------------|---------------------------------------|--------------------------------|---------------------------------|
| | | | Color marking | Numbering on handle (color red) |
| 103 | 107, 124, 126, 201 | 6.0 | red | — |
| 103 | 124 4MATIC | 6.5 | red | — |
| 103 | 129 | 6.5 ¹⁾ | — | 10308 |
| 103 | 201 AMG | 5.52 ²⁾ | red | — |
| 103.987 | 462.2 | 7.0 ³⁾ | — | — |

¹⁾ 6.1 liters with dipstick guide tube 1st version (up to 05/1992)

²⁾ Oil level when checking between Min. and Max.

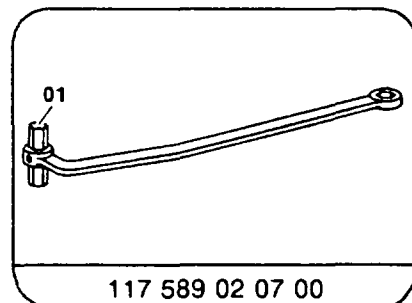
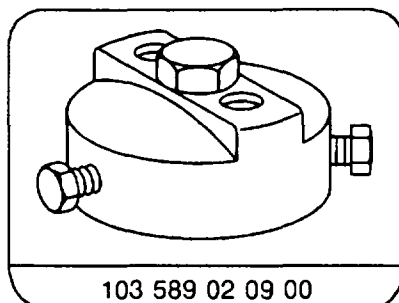
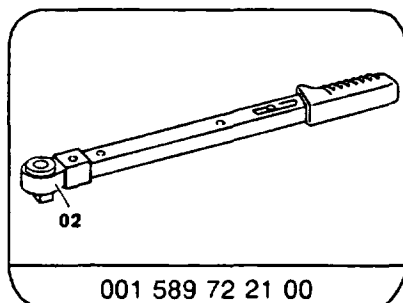
³⁾ 6.5 with sand-cast oil sump



Tightening torques in Nm

| | |
|--------------------------------------|----|
| Oil drain plug at oil sump | 25 |
| Replaceable cartridge Screw cover | 20 |

Special tools



Commercially available tool

Engine oil extractor

eg. Deutsche Tecalemit
Am Metallwerk 11
D-33659 Bielefeld



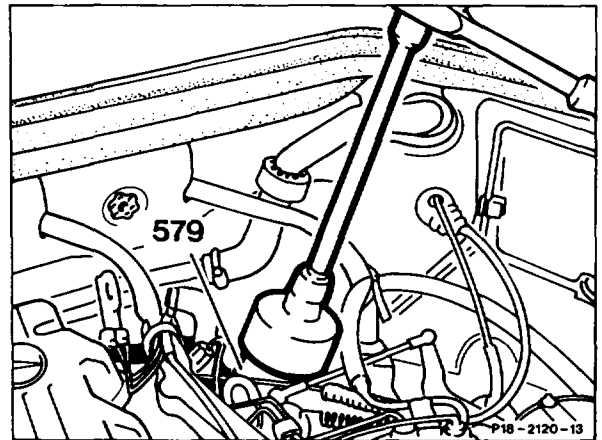


Change engine oil only when engine at normal operating temperature.

1 Before draining or extracting the engine oil, unscrew replaceable cartridge (579) with the wrench socket 103 589 02 09 00. Strike the wrench socket 103 589 02 09 00 lightly to ensure that it is properly located on the interchangeable cartridge (579).

When unscrewing cartridge, a little oil may flow out until the return lock in the cartridge (579) closes.

For this reason, place cleaning rags or similar below the unscrewing surface on the bottom section of the oil filter.



2 Extract engine oil through the dipstick guide tube when engine at normal operating temperature.

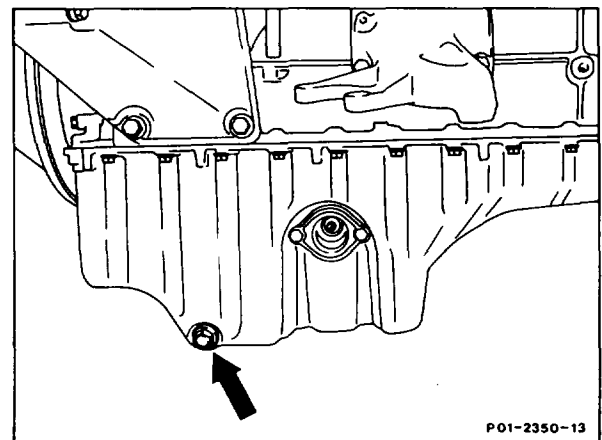
If no extractor is available:

3 Drain engine oil from sump (arrow).

Installation instruction

Renew seal of oil drain plug.

Tightening torque 25 Nm.

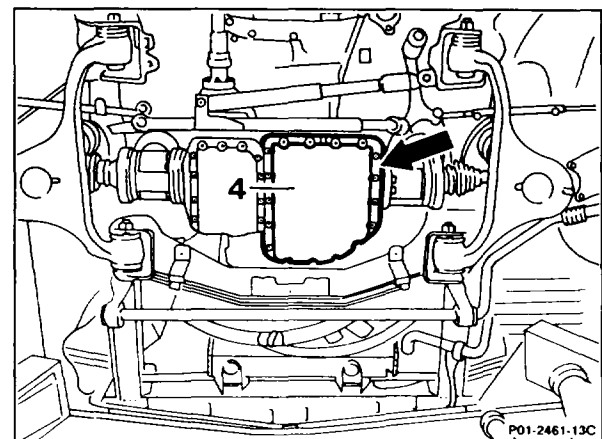


4 On 4MATIC models, unscrew only the drain plug (arrow) at the large oil sump (4).

Installation instruction

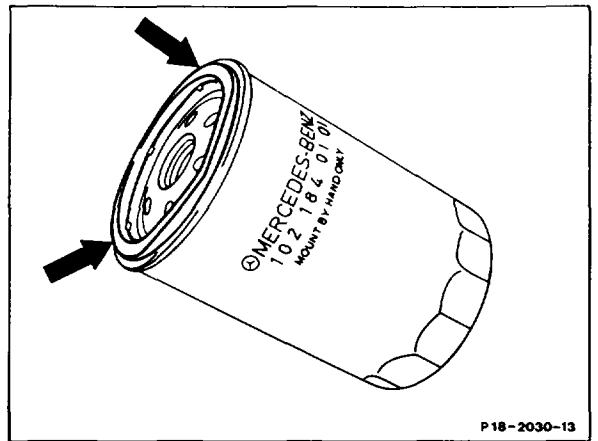
Renew seal of oil drain plug.

Tightening torque 25 Nm.



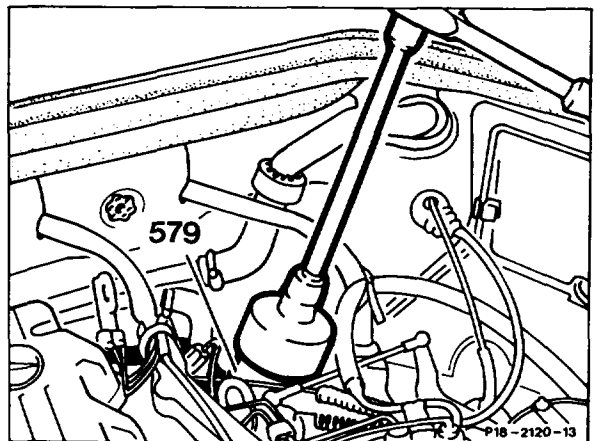
5 Clean connection surface at bottom of oil filter.

6 Apply a light coating of oil to gasket (arrows) of the new replaceable cartridge.



7 Screw on replaceable cartridge (579) and tighten by hand.

Following this, tighten cartridge a further 1/4 turns (90°) with the 74 mm wrench socket 103 589 02 09 00 (approx. 20 Nm).



8 Pour in engine oil.

9 Run engine and check for signs of leaks.

10 Wait approx. 2 minutes after switching off the warm engine before checking oil level.

