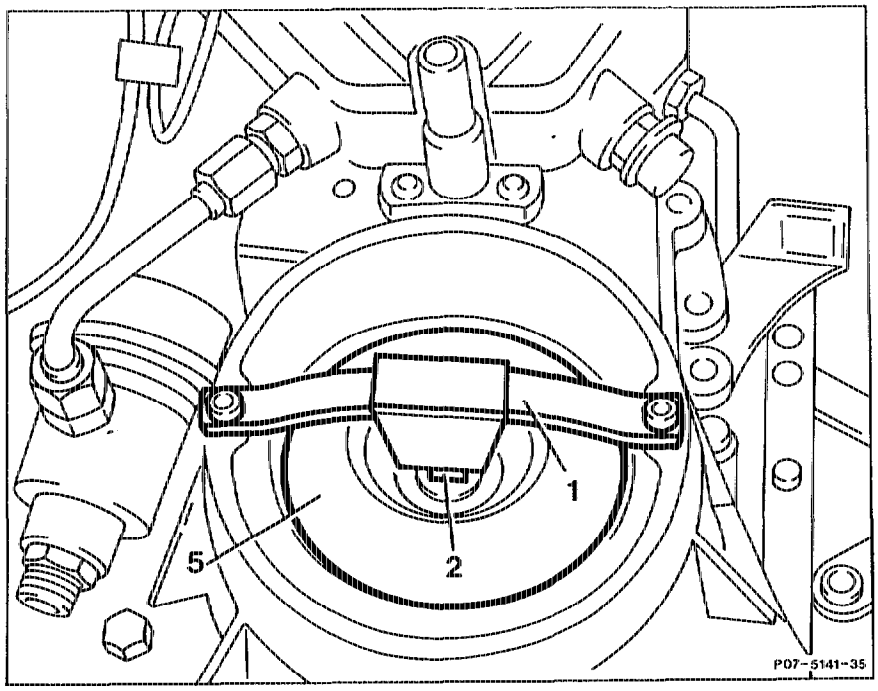
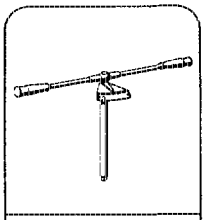
07.3–1665 Removing and installing air flow sensor plate

Operation No. of operation texts and work units or standard texts and flat rates:
07–1665



Stop bar (1) for air flow sensor plate	unscrew, screw on.
Fastening bolt (2)	heat with hot air fan and carefully unscrew (risk of shearing!), screw in. Tightening torque 5.0 – 5.5 Nm.
Air flow sensor plate (5)	remove, install, centre and check zero position (see notes for illustrations).
Hole for securing air flow sensor plate	clean with M6 tap.
Idling speed	set (see Diagnosis Manual Engine, Volume 1).

Special tool



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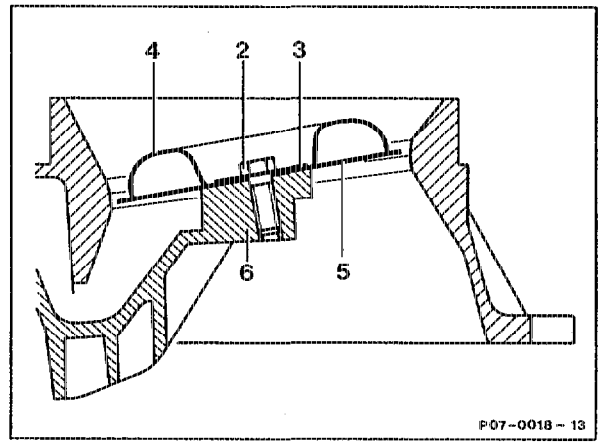
Commercial tools

Designation
Hot air blower
M6 tap

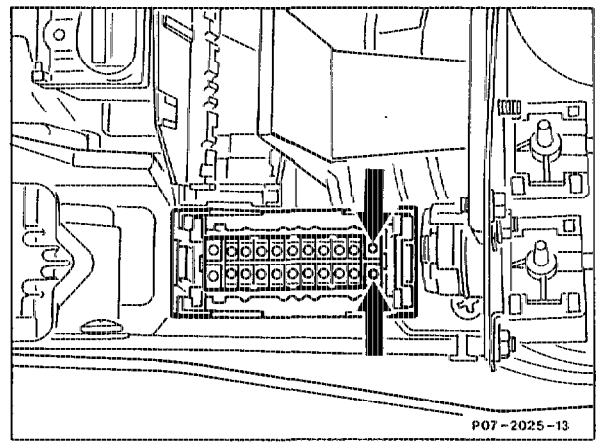
Notes

Fit air flow sensor plate (5), shaped washer (4) and washer (3) onto lever (6). Tighten new microencapsulated bolt (2, self-locking) first of all so that it just makes contact and the air flow sensor plate (5) can still be moved.



Centering air flow sensor plate

Remove, install engine systems control unit (MAS) (15-2193). Connect contacts terminal 30 and terminal 87 (arrows). The fuel pump starts, fuel pressure is built up and the sensor plate moves into "zero position".

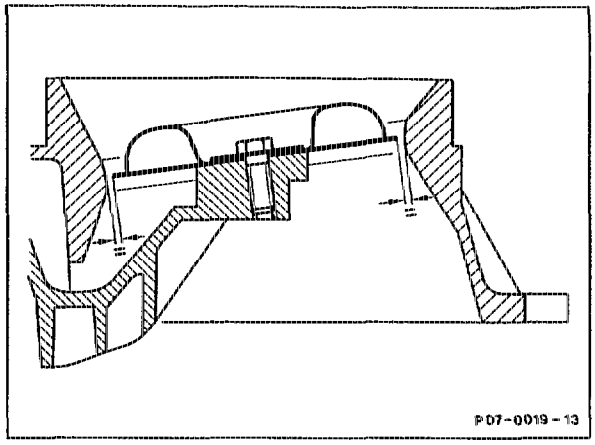


Engine systems control unit connector

Use an approx. 0.05 mm feeler gauge to ensure that the air flow sensor plate is exactly centred.

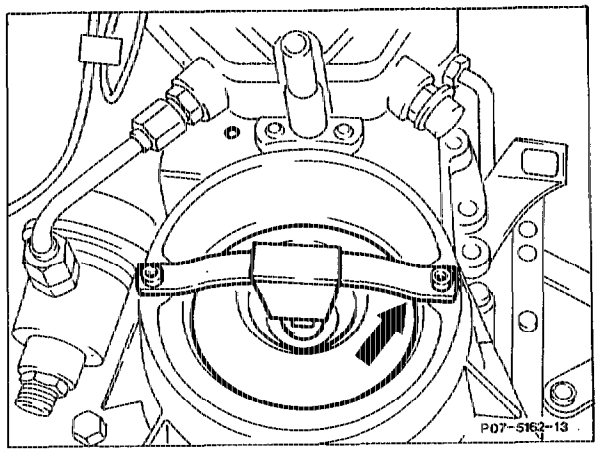
Note
The air flow sensor plate must not jam even if a slight lateral pressure is applied (bearing clearance eliminated).

Tighten bolt to 5.0 – 5.5 Nm.



Check that the air flow sensor plate moves easily by pressing it down by hand. The sensor plate must not jam. When the air flow sensor plate is released, it must likewise move back without jamming. It must audibly strike against the resilient stop. If necessary, re-center sensor plate.

Checking zero position of air flow sensor plate
(Visual inspection with engine not running). The inspection point (arrow) is directly below the stop bar.



The top edge of the air flow sensor plate must be flush with the top edge of the cylindrical part of the air funnel. In this position, a play of 1 – 2 mm must exist when the air flow sensor plate is pushed up to the control plunger. (Depending on findings, check and adjust zero position of air flow sensor plate 07.3–1612).