

**Idling Speed and Exhaust Gas Emission Values**

Type	Idling speed rpm	Exhaust gas emission % CO
M 116	700–750	2.0–3.5
M 116 USA	750–800	1.0–2.0
M 117 USA	700–800	0.5–2.0

**Special Tools**

Revolution counter	—
Exhaust gas measuring device	—

**Note**

Prior to idling speed adjustment, check electrode gap of spark plugs, timing angle and firing point (07.5.0–510).

**The idling speed should not be adjusted when the engine is hot**, for example immediately after fast driving or following an output test on the drum dynamometer.

**Adjustment**

- 1 Run engine up to an operating temperature of approx. 80°C cooling water temperature.
  - 2 Remove air cleaner.
  - 3 Disconnect connecting rod on valve connection. Check whether throttle valve closes completely without binding.
  - 4 Reattach connecting rod free of tensions.
  - 5 Adjust to specified speed with idling speed air screw (2).
  - 6 Check exhaust gas value. If required, readjust with adjusting screw on control unit (arrow in Fig. 2).
- Turning counterclockwise = leaner  
Turning clockwise = richer

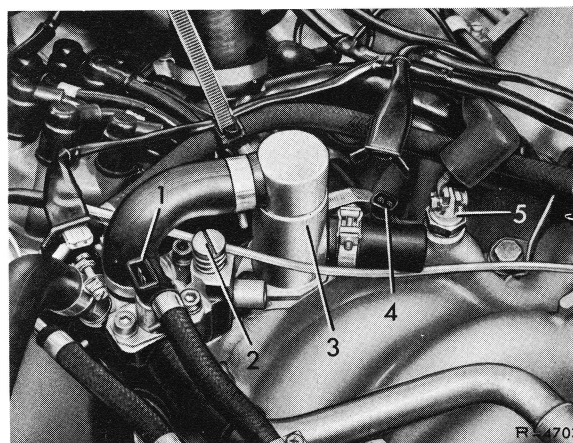


Fig. 1

- |                           |                                    |
|---------------------------|------------------------------------|
| 1 Starting valve          | 4 Cooling water temperature sensor |
| 2 Idling speed air screw  | 5 Thermal time switch              |
| 3 Supplementary air valve |                                    |

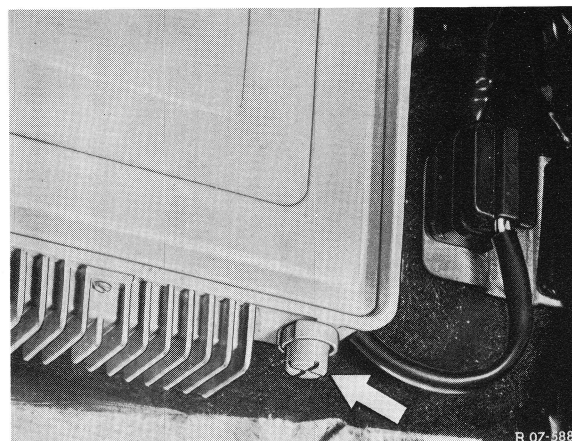


Fig. 2

## 07.4.1 Adjustment of Idling Speed

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**Note:** The control unit is accessible after loosening the inner lining below the glovebox.

**7** Check idling speed and readjust, if required.

**8** Install air cleaner, check idling speed and exhaust gas emission value once again and readjust, if required.