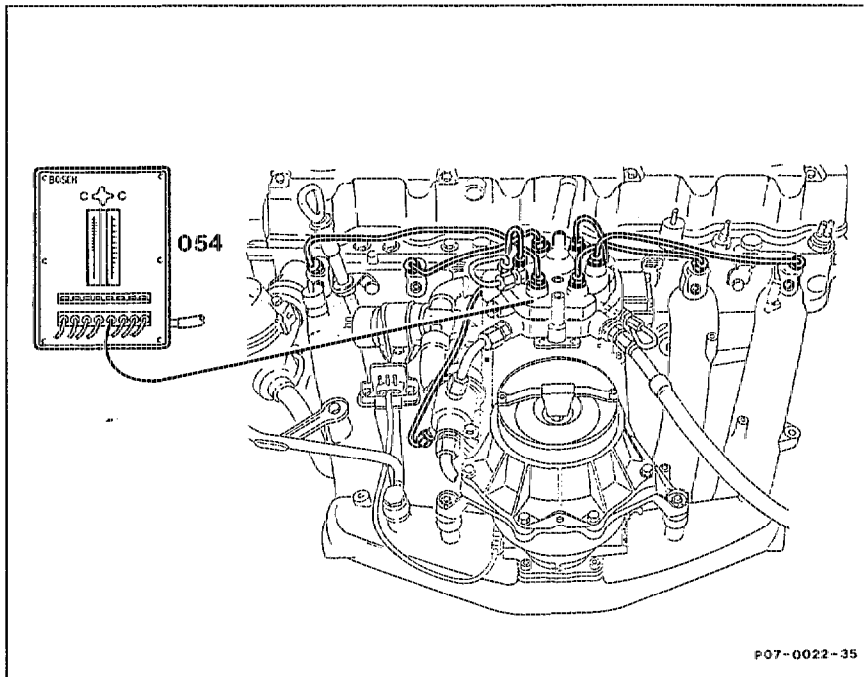


## 07.3-1609 Performing fuel quantity comparison measurement

Operation No. of operation texts and work units or standard texts  
and flat rates:  
07-1609



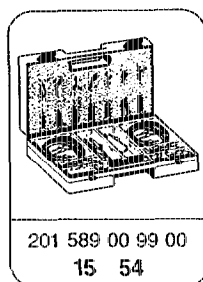
Injection lines .....	unscrew at fuel distributor and at injection valves, screw on. Clean connection points beforehand.
Fuel quantity comparison measuring instrument (054) .....	position horizontally next to vehicle and connect to fuel distributor (see notes at illustrations for sequence).
Fuel return line of measuring instrument .....	insert into filler neck of fuel tank.
Adjusting device for fixing air flow sensor plate .....	clamp to stop bar of air flow sensor plate (see notes at illustrations).
Engine systems control unit (N16) .....	disconnect, connect contacts terminal 30 and terminal 87 (see notes at illustrations, arrows). This causes fuel pump to run.
Air flow sensor plate .....	deflect and press buttons 1 to 6 in turn to bleed instrument.

Button 1 .....	press and hold. Deflect air flow sensor plate with adjusting device far enough to achieve up to 4 cm <sup>3</sup> /min (idle speed quantity). Fix air flow sensor plate in place.
Buttons 2 to 6 .....	press in turn, measure flow quantities and enter on sheet B20 800.99.472.00. Maximum permissible variation of cylinders to each other 0.4 cm <sup>3</sup> /min (idling). Then, the same as described previously, test part and full load flow. Deflect air flow sensor plate for this purpose. a) Part load 30 cm <sup>3</sup> /min b) Full load 100 cm <sup>3</sup> /min Maximum permissible variation of cylinders to each other Part load 4 cm <sup>3</sup> /min Full load 10 cm <sup>3</sup> /min If variation out of tolerance, replace fuel distributor.
Leak test of all fuel connections .....	check with engine running. (set idle speed after performing comparison measurement of fuel quantities, see Diagnosis Manual Engine, Volume 1).
CIS-E control unit fault memory .....	read out, erase if necessary (see Diagnosis Manual Engine, Volume 2, Index 0).

**Note**

Stored faults which may originate from test work as a result of disconnecting cables or from a simulation, must be erased in the fault memory after completing the work.

**Special tool**



## Commercial tools and testers

Designation	e. g. Make, Order No.
Fuel quantity comparison measuring instrument	Bosch KDJE-P 300
Tester trolley <sup>1)</sup>	Bosch M 200/2 or KDJE-W 100

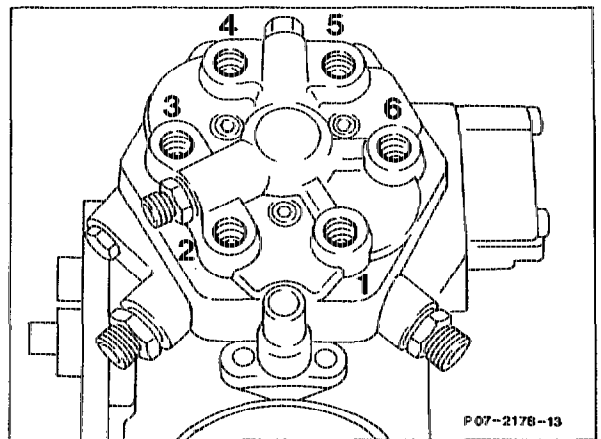
<sup>1)</sup> If the tester trolley is used for the fuel quantity comparison measuring instrument, an additional angle plate is required. It may be shop-made or obtained from a Bosch agency.

### Note

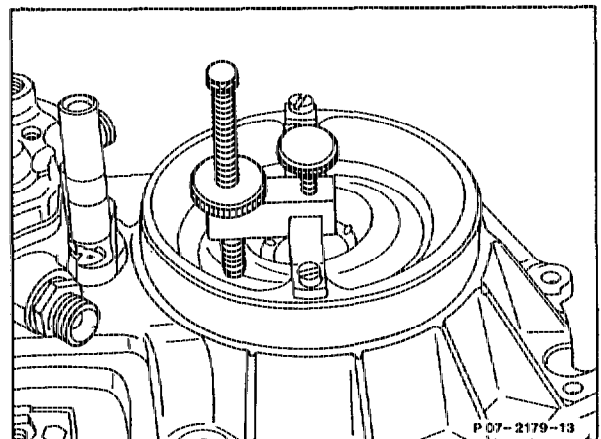
The measurement is performed with the engine not running. The operating condition (idle speed, part or full load) is simulated and set at the air flow sensor plate with an adjusting device.

### Notes regarding illustrations

Arrangement of fuel lines to fuel quantity comparison measuring instrument



Set air flow sensor plate with adjusting device



Engine systems control unit connector

