

01–010 Checking compression pressure

Test values for engine at operating temperature in bar gauge pressure (atü)

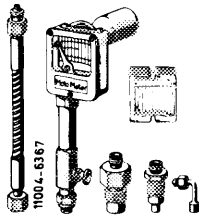

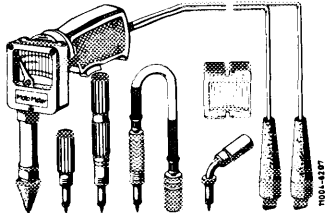
Normal compression pressure	24–30
Minimum compression pressure	approx. 15
Permissible difference between the individual cylinders	max. 3

Tightening torques

Nm

Cap nuts of injection lines	25
Injection nozzles in prechambers	70–80
Pencil element glow plugs	20–30

Special tools

Compression pressure recorder with accessories	 1100 4- 63 67	001 589 47 21 00
Screw-in fitting for heating plug bore	 1100 4- 81 01	617 589 03 21 00
Contact handle for rotating engine (Component of compression pressure recorder 001 589 46 21 00)	 1101 4- 41 87	001 589 46 21 08

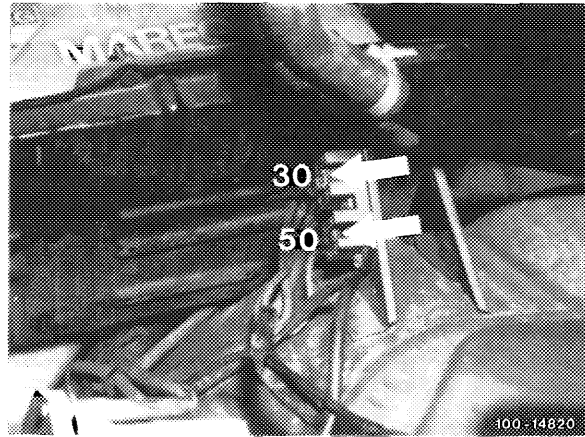
Note

Measure compression pressure at 80 °C coolant temperature. The compression pressure can be tested via heating plug bore or via prechambers. When pressure is below minimum compression pressure, check cylinders for leaks (01–015).

Checking

- 1 Remove heating plugs or injection nozzles.
- 2 Connect contact handle under battery to cable connector terminal 30 and 50.

Model 116.120



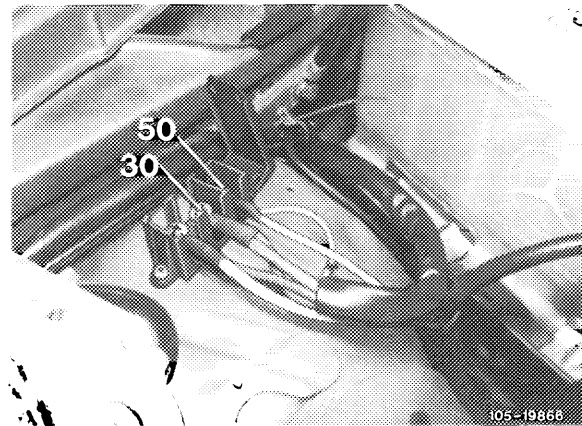
The cable connector is attached at the following points:

Model 116.120: Under battery.

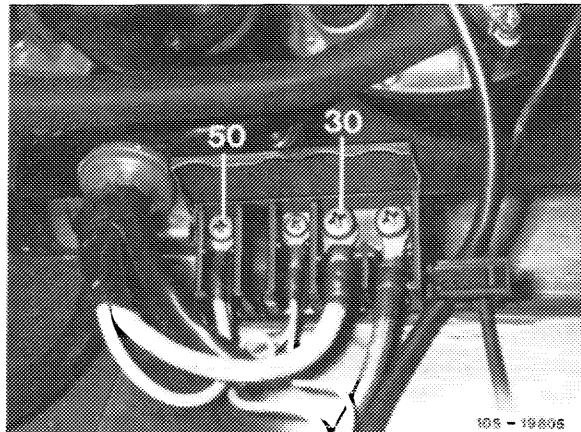
Model 123 : On wheelhouse, right.

Model 126.120: On frame side member

Model 123



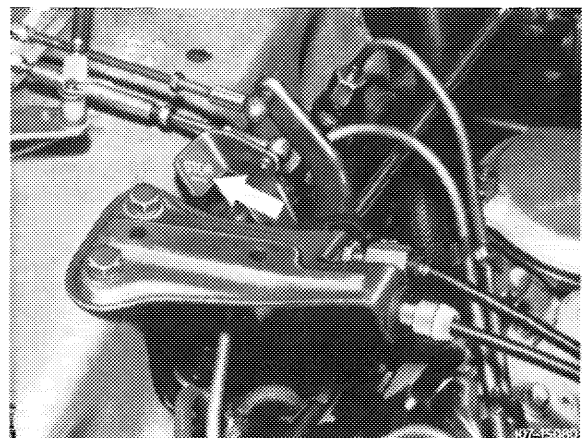
Model 126.120



- 3 Rotate engine several times at transmission idle position, so that residue and soot are thrown out.

Attention!

For the above purpose, push shutoff lever (stop) in direction of engine so that the injection pump is not injecting.



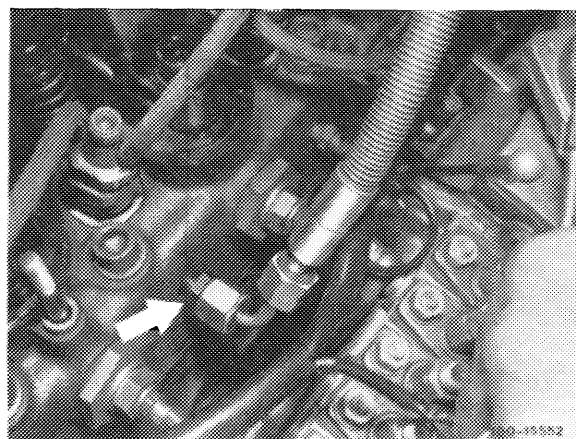
4 Enter screw fitting into glow plug bore or adaptor (component of compression pressure recorder) into prechamber.

Connect compression pressure recorder.

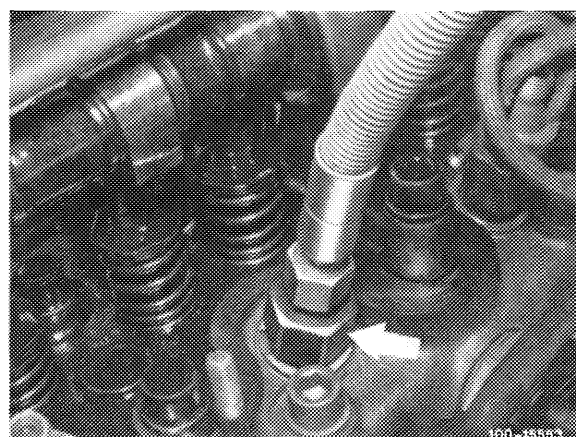


Screw fitting

100-14819



Compression pressure recorder,
connected to glow plug bore



Compression pressure recorder,
connected to prechamber

5 Rotate engine 8 revolutions for testing.

Attention!

For the above purpose, push shutoff lever (stop) in direction of engine so that the injection pump is not injecting.

6 Insert new nozzle reeds prior to installation of injection nozzle.

