

01-010 Testing Compression Pressure

Job No. of job texts and job values or standard
texts and flat rates 01-1200

Model 124

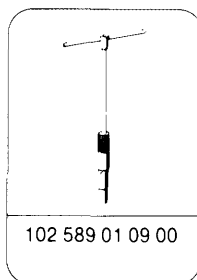
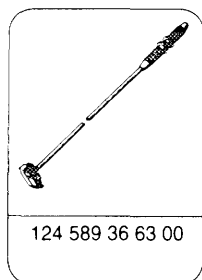
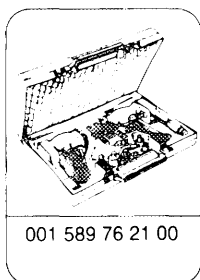
Model 129

Test data for engine at normal operating temperature		Pressure
Minimum compression pressure at	Normal compression	approx. 12 bar
	Low compression	approx. 7.5 bar
Allowable difference between cylinders		max. 1.5 bar

Tightening torque

Spark plugs	20 Nm
-------------	-------

Special tools



Note

Test compression pressure at normal operating temperature.

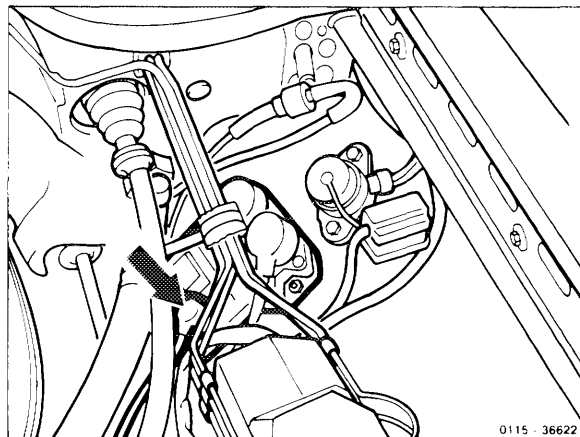
If the pressure reading is below the minimum compression pressure, test cylinders for leaks (01-015).

During the test, have all spark plugs removed.

- 1 Set hood vertical (01-008).

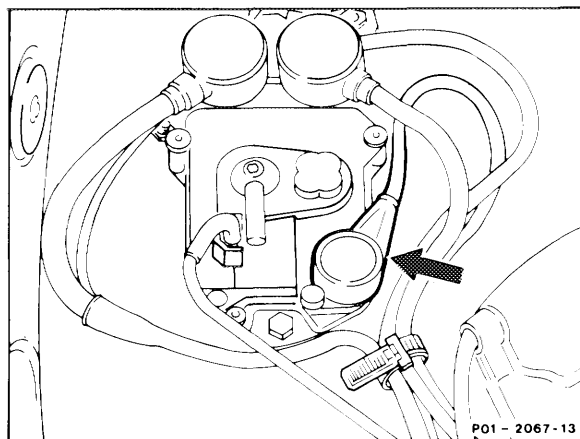
Model 124

- 2 Turn ignition off and unplug the connector (arrow) for the distributor inductive pickup (green cable) at the control unit.



Model 129

- 3 Turn ignition off and unplug the connector (arrow) for the distributor inductive pickup (green cable) at the control unit.

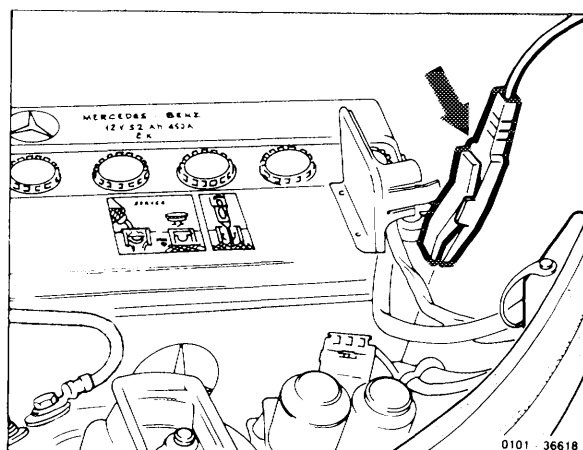


- 4 Unplug all spark plugs.
- 5 Blow out spark plug recesses with compressed air.
- 6 Remove spark plugs.

Connecting compression pressure recorder

Model 124

- 7 Connect an alligator clamp (arrow) from the compression pressure recorder (001 589 76 21 00) to the battery positive cable.

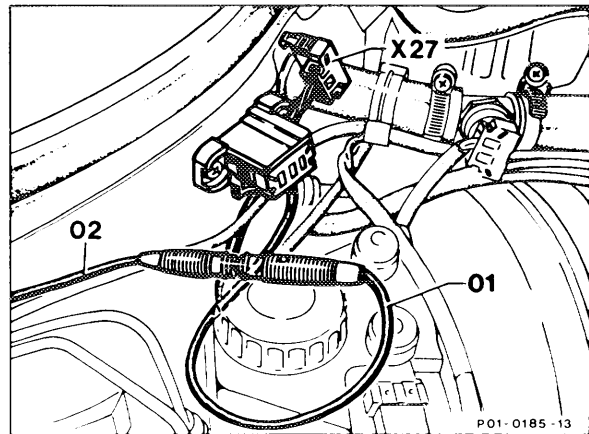


8 Unplug connector (X27) from connector (50).

9 Fit plug (63) of adapter cable

01 124 589 36 63 00 to connector (50).

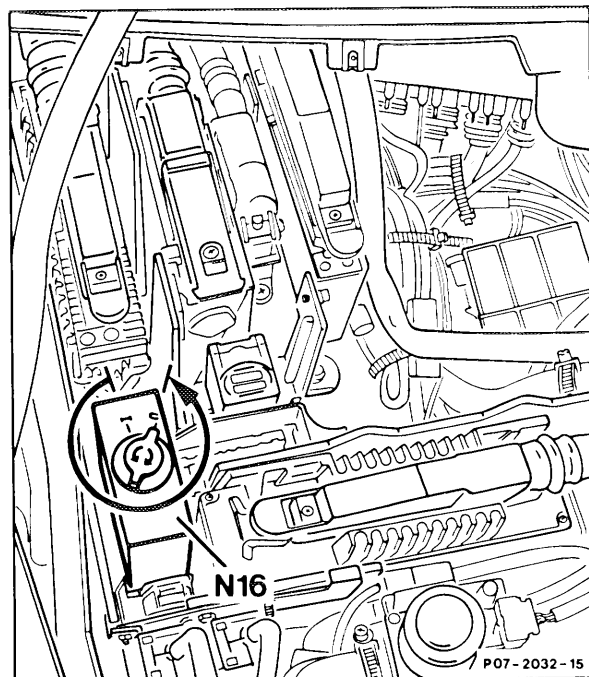
10 Connect adapter cable (01) to the
compression pressure recorder cable (02).



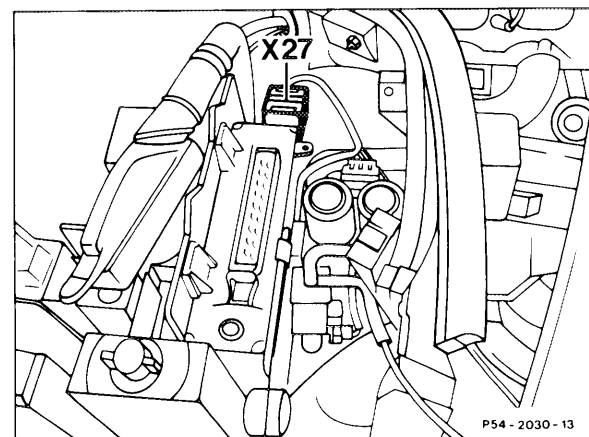
Model 129

11 Remove cover of component compartment.

12 Remove engine component control unit
by turning the knob counterclockwise from
position 1 to position 0, and remove the control
unit upward.

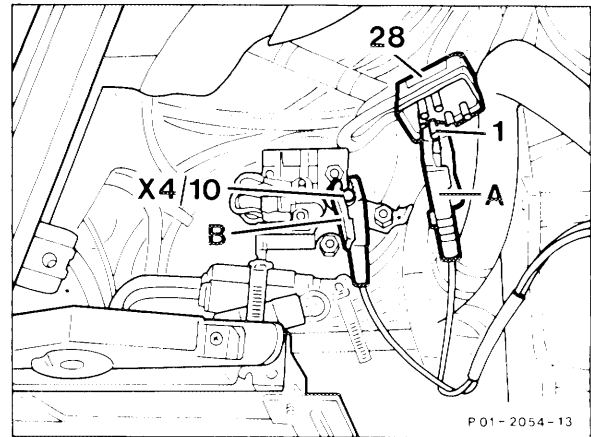


13 Unplug connector (28) at connection (X27).



14 Connect terminal (A) to pin 1 on the connector (28).

15 Connect terminal (B) to terminal block (X4/10).

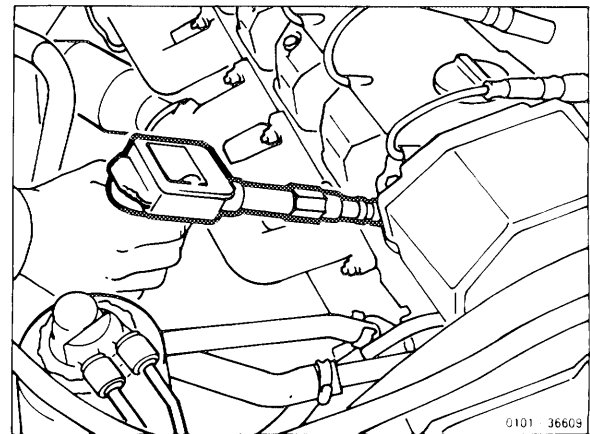


Testing

16 With the throttle in the idle position and the parking brake applied, crank the engine with the starter several times to eject debris and soot.

17 Insert the diagram sheets in the compression pressure recorder and start with cylinder 1.

18 To test a specific cylinder, press the compression pressure recorder into the spark plug bore of the cylinder tested, and crank engine through approx. 8 compression strokes. Keep the throttle wide open during the test.



Test all the cylinders this way.

19 Blow out the spark plug recesses with compressed air. Remove residues on the tapered seat.

20 Thread in the spark plugs and tighten to 20 Nm.