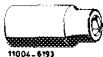
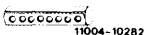


01–015 Checking cylinders for leaks

Data

Total pressure loss	max. 25 %
On valves and cylinder head gasket	max. 10 %
On pistons and piston rings	max. 20 %

Special tools

Socket 27 mm, 1/2" square for rotating for engine	 11004-10282	001 589 65 09 00
Square drive socket 1/2", 80 mm long for rotating engine	 11004-10282	617 589 00 16 00

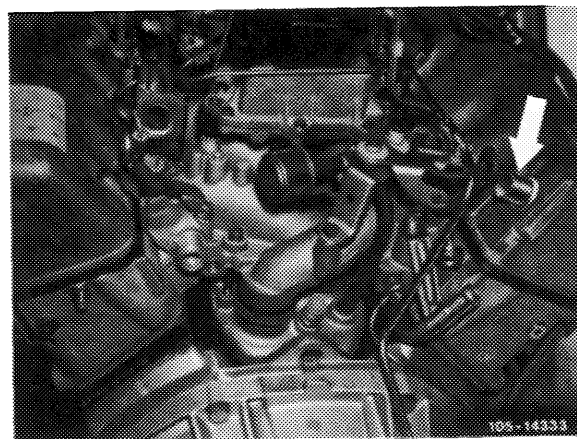
Conventional tool

Cylinder leak tester	e.g. made by Bosch, EFAW 210 A and SUN, CLT 228-1
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Checking

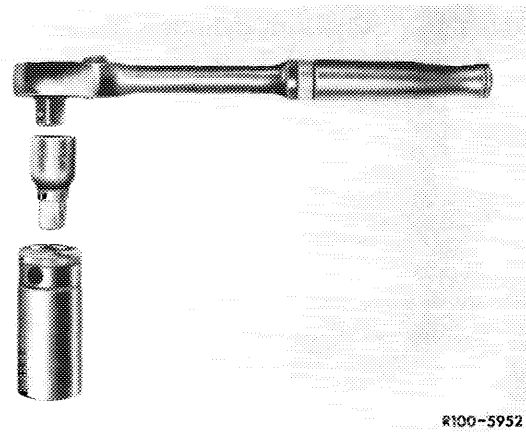
- 1 Run engine up to operating temperature.
- 2 Remove air filter.
- 3 Set throttle valve to full opening.
- 4 Unscrew spark plugs.
- 5 Pull off venting valve at valve cover (arrow).
- 6 Top up coolant and leave lock open.
- 7 Connect cylinder leak tester with hose to a compressed air system.

Calibrate tester.



8 Set piston of cylinder to be tested to ignition TDC. For this purpose, rotate engine with tool combination at crankshaft.

For rotating engine on model 107, unscrew radiator shell element and fan.

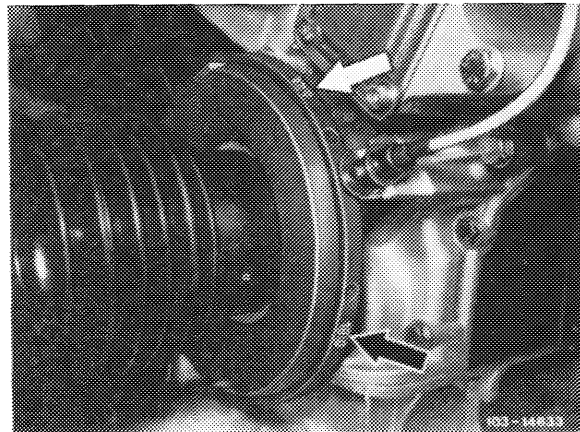


R100-5952

Note: Marking numbers 0, 90, 180 and 270 (arrows) are punched into vibration damper.

The pistons named below are at TDC in the following positions of the marking in relation to indicator:

Marking number:	Piston at TDC
0	1 and 6
90	5 and 3
180	4 and 7
270	8 and 2



072-34453

9 Screw connecting hose into spark plug bore and attach to connecting hose of tester.

Crankshaft should not rotate.

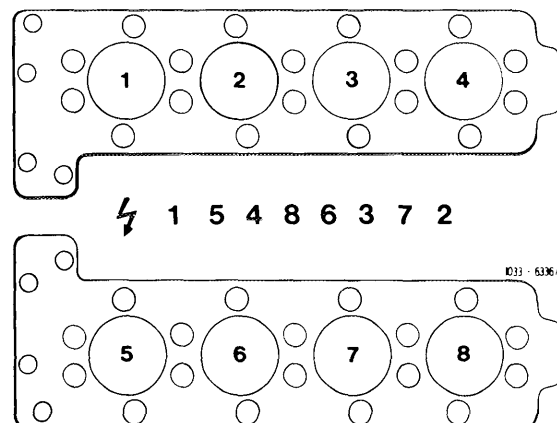
10 Read pressure loss on cylinder leak tester.

11 Check by listening whether pressure escapes via intake pipe, exhaust, engine breather, spark plug bore of adjacent cylinder or coolant filler hole.

12 Check all cylinders in ignition sequence.

Note: It is possible that on individual pistons the piston ring gaps are directly one above the other, so that the test results will be misrepresented.

When in doubt, continue running vehicle and check cylinder for leaks once again later on.



033-6306/1