

01 Compression tester



P01.00-2415-11

☒ ☒	Remove/install		
⚠ Danger!	Risk of accident caused by vehicle starting off by itself when engine is running. Risk of injury caused by contusions and burns during starting procedure or when working near the engine as it is running	Secure vehicle to prevent it from moving by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
⚠ Danger!	Risk of injury to skin and eyes caused by handling hot or glowing objects.	Wear safety gloves, protective clothing and safety glasses, if necessary.	AS00.00-Z-0002-01A
1	Bring engine to operating temperature (approx. 80°C)	ⓘ Only test compression pressure when engine is at normal operating temperature.	
2	Switch off ignition and remove key from the electronic ignition switch control unit		
3	Open engine hood and raise to vertical position		AR88.40-P-1000V
⚠ Danger!	Risk of death caused by contact with parts conducting high voltages.	Do not touch parts which conduct high voltages. Persons who wear electronic implants (e.g. heart pacemakers) should never perform any work on the ignition system	AS15.10-Z-0001-01A
4 🔧 AP	Remove spark plugs Replace spark plugs		AP15.10-P-1580V
5	Connect compression recorder (01) and crank engine via starter	ⓘ Do not crank engine at ignition switch but use the contact switch on the compression recorder instead. ⓘ Crank engine several times with the starter in order to eliminate combustion residues in the cylinder. 🔧 🔧	AR01.10-P-0110-01V *001589762100 *220589009900
◀	Checking		
6	Insert compression recorder (01) into spark plug bore		
7	Crank engine with starter	ⓘ Do not crank engine at electronic ignition switch control unit but use contact switch of compression recorder. ⓘ To check the compression pressure, crank engine by at least 8 revolutions.	AR01.10-P-0110-01V
8	Carry out test procedure at remaining cylinders in the same way		
9	Compare pressure readings obtained with specified pressures	Compression installation tolerance or new value Compression pressure permissible difference between individual cylinders Compression pressure wear limit or limit value	*BE01.00-P-1001-01B *BE01.00-P-1002-01B *BE01.00-P-1003-01B

		<p>i If pressure indicated is less than minimum compression pressure or if permissible difference between individual cylinders is exceeded:</p> <p style="text-align: center;">↓</p> <p>Check cylinder leakage.</p>	AR01.00-P-1300HA
10	Install in the reverse order		

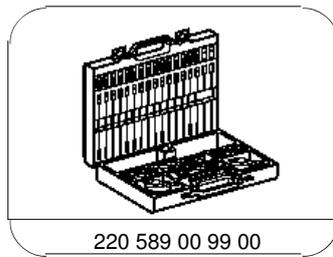
Compression pressure

Number	Designation		Engine	Engine
			271.910/ 940/941/ 944/946/ 952	271.948/ 950/954/ 955/956
BE01.00-P-1001-01B	Compression installation tolerance or new value	bar	11.5...13.5	10 to 12.5
BE01.00-P-1002-01B	Compression pressure permissible difference between individual cylinders	bar	≤1.5	≤1.5
BE01.00-P-1003-01B	Compression pressure wear limit or limit value	bar	≈9	8



001 589 76 21 00

Compression tester



220 589 00 99 00

Electrical connection kit