

G5

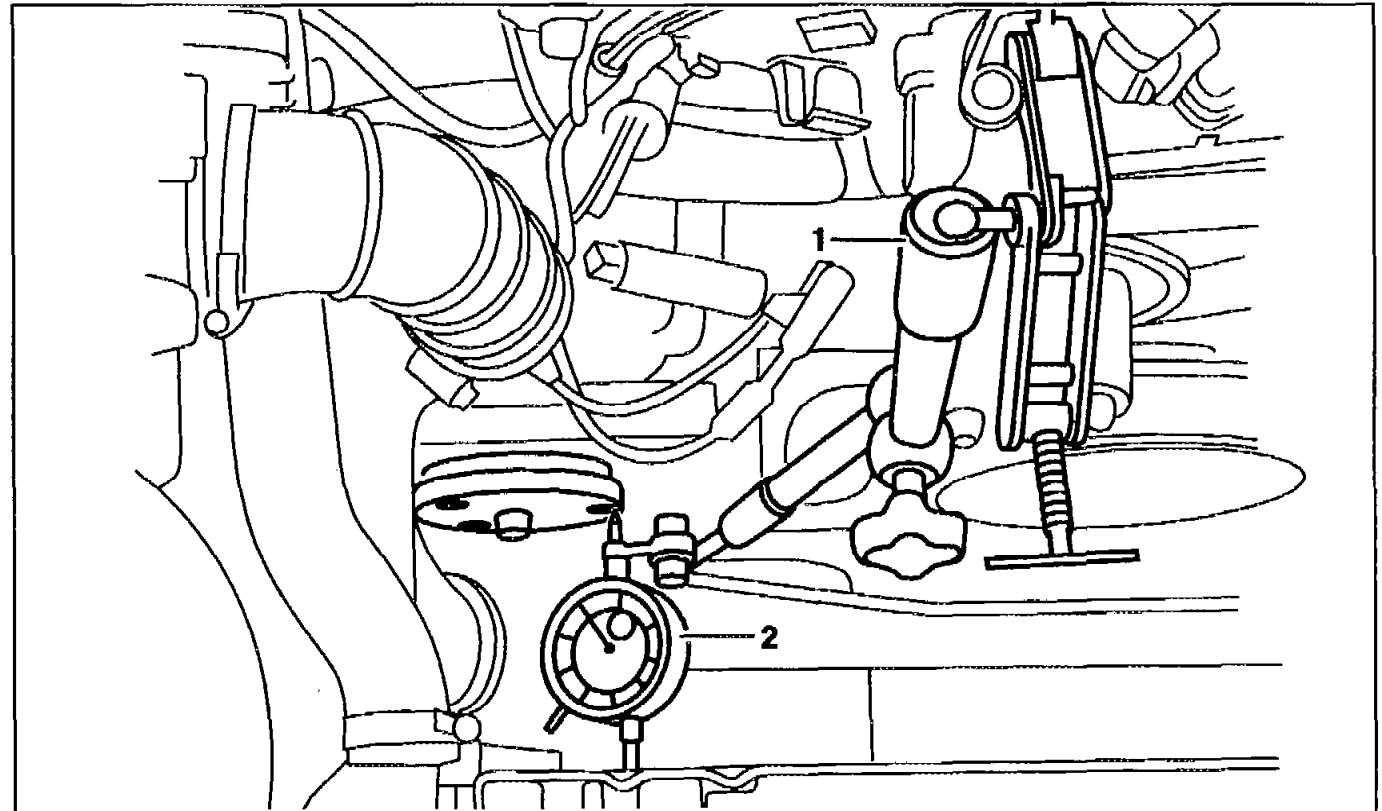
AR09.50-P-4781A

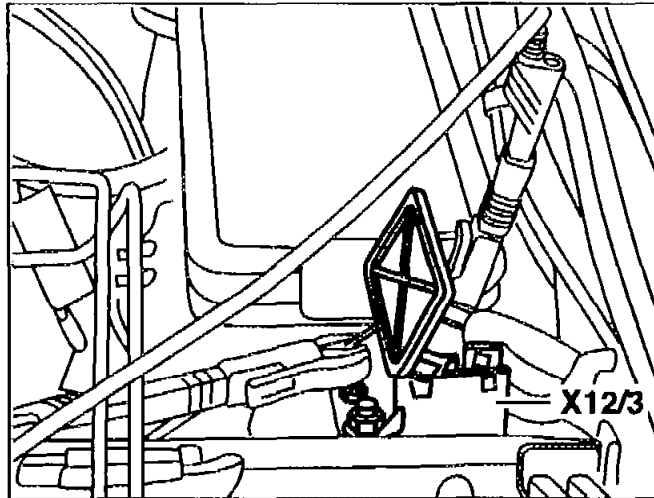
Checking and adjusting electromagnetic clutch for compressor

21.3.95

ENGINE 111.943 /944 /947 /973 /975

- 1 Hydrokinetic hinged support
- 2 Dial gage



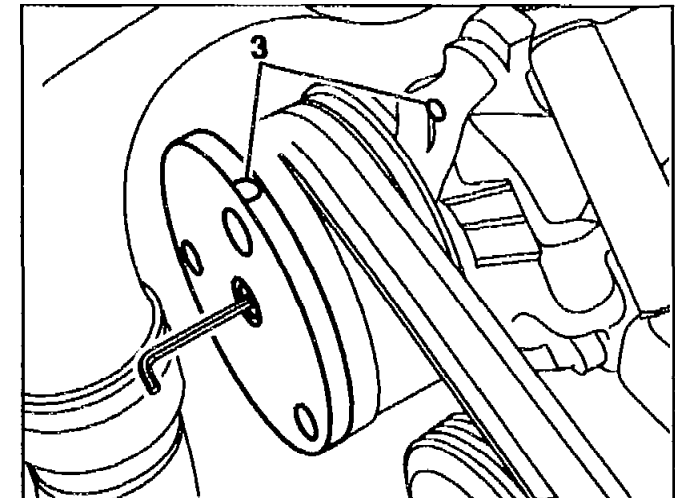


P09.50-0229-01

Voltage supply








3

Marking



P09.50-0218-01

	Removing, installing		
1	Remove fan	Except models with suction fan 	AR20.40-P-5660A BA20.40-P-1002-01A
2	Remove fan shroud	Except models with suction fan Installation: Center fan shroud	AR20.40-P-6800HA
3	Remove cover on sensor strip		
4	Separate plug connection for electromagnetic clutch		

5	Mark clutch hub to turbocharger housing with colored dot (3)	 It is essential that clutch hub is installed again at the same point relative to turbocharger drive shaft. If incorrectly installed, imbalance and vibrations will occur.	
6	Clamp hydrokinetic hinged support (1) to sensor strip in front of cylinder head and mount dial gage (2) onto a rivet of the clutch hub with a preload	 	WH58.30-Z-1064-12A 001 589 53 21 00
7  WF	Apply 12 V from terminal block X 12/3 to connector of magnetic clutch Adapter cable for creating contact at connector of magnetic clutch	 Engine 111.944/975	201 589 00 99 00 WF58.50-P-4781-01A F18
8	Read off dial gage and note reading. Repeat measurement at the other 2 rivets; rotate engine at crankshaft for this step	Calculate the actual value from the 3 readings and note	
9	Remove central bolt; apply voltage to magnetic clutch for this step and additionally apply tension to poly V-belt by hand	 Installation: Always replace (microencapsulated) during final installation after setting gap 	BA09.50-P-1002-01A



10	Take off clutch hub	<p>i If tight, the hub can be pressed off with an M8 bolt. Insert a hexagon socket wrench, drill etc. through the hub hole to prevent the shims dropping off</p> <p>ⓘ Inspect input shaft and turbocharger housing for shims which have dropped off and for foreign bodies Risk of damage to turbocharger gear</p>	
11 BE	<p>Measure shims with caliper gage</p> <p>Determining total thickness, compare with specified value and set specified value by removing or inserting shims</p>	<p>i Aim for lower limit value</p>	BE09.50-P-1001-01A
12	Insert in the reverse order		

Electromagnetic clutch

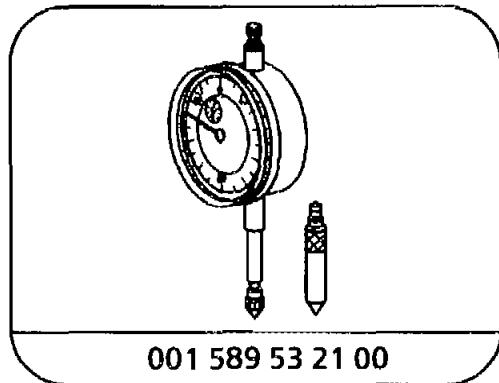
Number	Designation	Engine
		111.943/ 944/947/ 973/975
BE09.50-P-1001-01A	Gap	mm 0.25-0.40

**Nm** Compressor

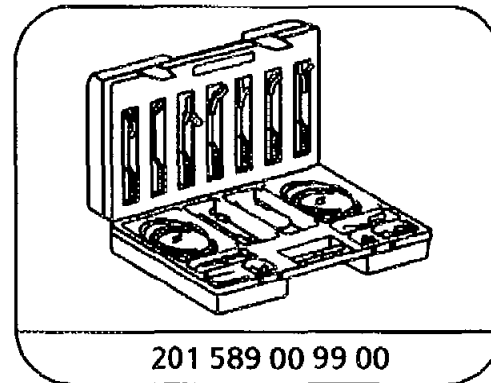
Number	Designation	Engine
		111.943/ 944/947/ 973/975
BA09.50-P-1002-01A	Central bolt for electromagnetic clutch hub	Nm 17

Nm Fan, fan clutch

Number	Designation	Engine 111
BA20.40-P-1002-01A	Bolt of viscous fan clutch to bearing body, tighten with approved special tool	Nm 40



Dial gage



Electrical connection set

Commercially available tools (see Workshop Equipment Manual)

Number	Designation	Make (e.g.)	Order number
WH58.30-Z-1064-12A	Hydrokinetic sensor hinged support (bracket)	Hans Zeheter Wiesbachhornstr.13 81825 München Tel.: 089/429499 Fax: 089/426263	HZM - HSG/P