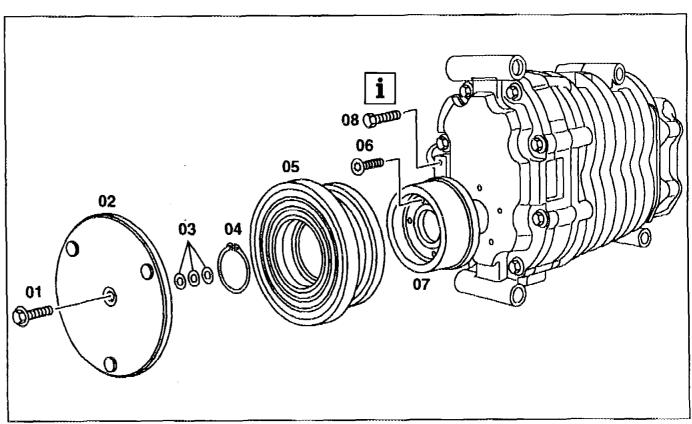


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	15	AR09.50-P-4786A	Removing and installing electromagnetic clutch for compressor	16.8.94

ENGINE 111.943 /944 /947 /973 /975

- 01 Central bolt
- 02 Plastic disk (clutch hub)
- 03 Shims
- 04 Tapered locking ring
- 05 Bearing body with belt pulley
- 06 Screw (coil body to housing)
- 07 Coil body
- 08 Bolt (cable clamping bar)



P09.50-0204-05

XX	Removing, installing		
1	Remove compressor	(3) Always replace electromagnetic clutch	AR09.50-P-4705A C5
		complete	

2	Clamp compressor at front at bottom attachment eye in a vice using protective jaws	(P) Centering hole must not be damaged	
3	Apply 12 V to connector of magnetic clutch	3	201 589 00 99 00
₩F	Adapter cable for electromagnetic clutch at compressor	Engine 111.944/975	WF58.50-P-4781-01A F18
4	Wrap poly-V-belt around belt pulley and hold tight		
5	Remove central bolt (01)	Installation: Always replace (microencapsulated) during final installation after setting gap	BA09.50-P-1002-01A
6	Disconnect source of voltage		
7	Lift off clutch hub (02)	I If tight, hub can be pressed off with an M8 bolt Inspect input shaft in turbocharger housing for shims which have dropped off and for foreign bodies or cover over	
8	Make up shims (03) with caliper gage to a total size of approx. 0.9 mm		
9	Insert shims into clutch hub and fit onto input shaft with old central bolt	Use a cross-head screwdriver etc. for guiding the shims	
10	Apply 12 V at connector of magnetic clutch	3	201 589 00 99 00

₩F	Adapter cable for electromagnetic clutch at compressor	Engine 111.944/975	WF58.50-P-4781-01A F18
11	Use feeler gage to check gap at the 3 rivets	Calculate actual value from the readings, compare with specified value (gap). Aim for lower limit value	BE09.50-P-1001-01A
12	Set specified value by removing or inserting shims; repeat steps (5-17) if necessary	(microencapsulated) during final installation after setting gap	
13	Remove tapered locking ring (04)	Installation: chamfer should point up	
14	Pull off bearing body (05) with belt pulley		
15	Take off securing tab of cable guide	Installation: Ensure correctly installed; risk of squeezing cables	
16	Remove coil body (07)		WH58.30-Z-1017-06A WH58.30-Z-1018-06A BA09.50-P-1003-01A
17	Install in the reverse order		
18	Carry out at least 20 engaging operations during operational check in vehicle to wear in clutch friction surface	i Briefly blip throttle from idling speed to approx. 3000 rpm. Final assessment only possible after 100-120 engagement operations (noises)	

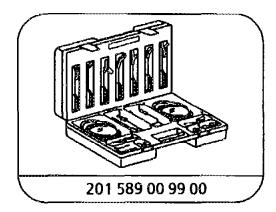


Electromagnetic coupling

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
BA09.50-P-1003-01A	Coil body to housing	Nm	4



Electrical connection set

Commercially available tools (see Workshop Equipment Manual)

Number	Designation	Make (e.g.)	Order number
WH58.30-Z-1017-06A	Internal torx screwdriver bit T20 length 70 mm	Stahlwille Eduard Wille GmbH & Co Lindenallee 27 D-42331 Wuppertal 12	1292-T 20
WH58.30-Z-1018-06A	1/4 " connector for screwdriver bit	Stahlwille Eduard Wille GmbH & Co Lindenallee 27 D-42331 Wuppertal 12	412