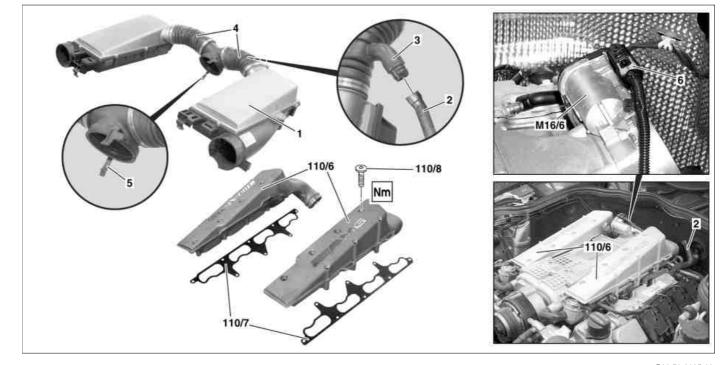
AR09.50-P	-4705SVK	Remove/install compressor
ENGINES	112.960 in MOE	DEL 170.466
ENGINES	112.961 in MOE	DEL 203.065 /265
ENGINES	113.992 in MOE	DEL 230.474
ENGINES	113.990 in MOE	DEL 211.076 /276
ENGINES	113.991 in MOE	DEL 215.374, 220.074 /174
ENGINES	113.995 in MOE	DEL 230.472

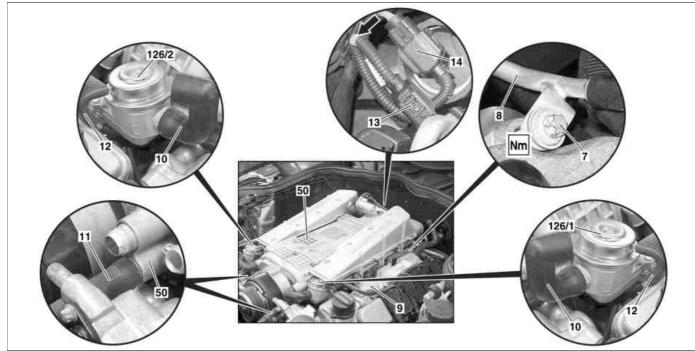


### Shown on engine 113.990

P09.50-2085-09

P09.50-2086-09

Air cleaner housing	5	Catches	110/7	Seal
Crankcase ventilation hose	6	Connector	110/8	Screw
Fitting Intake lines	110/6	Top charge air distributor	M16/6	Throttle valve actuator



### Shown on engine 113.990

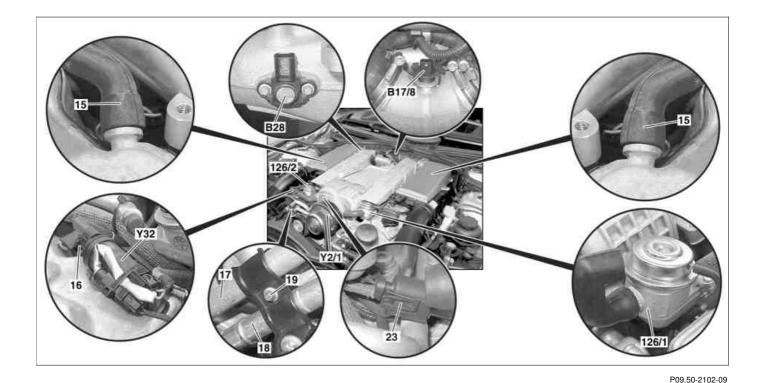
- 7 Screw
- 8
- Purge line Cylinder head cover 9
- 10 Hose

- 11 Hose
- 12 Vacuum line
- 13 Electrical connector
- 14 Electrical connecto

- 50 Compressor
- 126/1 Left air shutoff valve 126/2 Right air shutoff valve

11.11.11

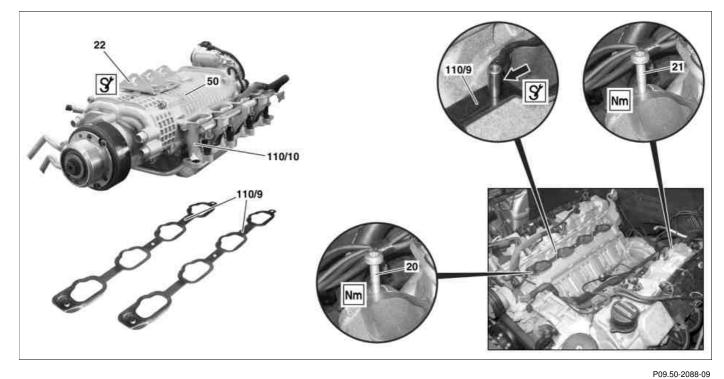
© Daimler AG, 5/16/16, G/05/16, ar09.50-p-4705svk, Remove/install compressor Page 1 of 5 ENGINES 112.960 in MODEL 170.466 ENGINES 112.961 in MODEL 203.065 /265 ENGINES 113.992 in MODEL 230.474 ENGINES 113.990 in MODEL 211.076 /276 ENGINES 113.991 in ...



#### Shown on engine 113.990

- Crankcase ventilation hose 15
- Vacuum line 16
- 17 Coolant return line
- Coolant feed line 18
- 19 Screw/bolt

- 23 Electrical connector
- 126/1 Left air shutoff valve
- 126/2 Right air shutoff valve
- B17/8 Charge air temperature sensor
- B28 Pressure sensor (charge air) Y2/1 Supercharger magnetic clutch Y32 Air pump switchover valve



#### Shown on engine 113.990

Screw/bolt S Bracket 110/9 20 Seal 22 Bottom charge air distributor 21 Screw/bolt 110/10 Compressor 50 **Modification notes** 16.5.06 "Disconnect/connect battery ground line" removed

XX Remove/install

© Daimler AG, 5/16/16, G/05/16, ar09.50-p-4705svk, Remove/install compressor Page 2 of 5 ENGINES 112.960 in MODEL 170.466 ENGINES 112.961 in MODEL 203.065 /265 ENGINES 113.992 in MODEL 230.474 ENGINES 113.990 in MODEL 211.076 /276 ENGINES 113.991 in ...

⚠ Danger!	Danger! Risk of death caused by vehicle slipping or toppling off of the lifting platform. Align vehicle between columns of vehicle lift and position four support plates at vehicle lift support points specified by vehicle manufacturer.				
⚠ Danger!	Risk of explosion caused by fuel igniting, risk of poisoning caused by inhaling and swallowing fuel and risk of injury to eyes and skin caused by contact with fuel	No fire, sparks, open flames or smoking. Pour fuels only into suitable and appropriately	AS47.00-Z-0001-01A		
1.1	Activate Service mode in Tele-Aid emergency call system	Model 215, 220 with code (347) TELE AID emergency call system (D2B) or code (855) TELE AID.	AR82.95-P-0005-03AM		
i	Notes regarding the Tele-Aid emergency call system		AH82.95-P-0001-01AM		
2	Remove ground line(s) from battery (batteries)	i Do not connect quiescent current retention unit. Model 170 Model 215, 220	AR54.10-P-0003A AR54.10-P-0003I		
3	Remove air filter housing (1).	<ul> <li>Installation: Do not break off catches (5) during bottoming on the throttle valve actuator (M16/6). The catches (5) can be sucked in by the supercharger (50) and cause engine damage.</li> </ul>	AR09.10-P-1150SVK		
4	Remove top charge air distributor (110/6)		AR09.41-P-1320SVK		
5	Remove the throttle valve actuator (M16/6)	<b>i</b> The throttle valve actuator (M16/6) plug (6) must not be removed, because it is bonded. Disconnect to remove the electrical connector (13).	AR07.61-P-1401SVK		
6	Remove fuel distributor	<b>i</b> Installation: Replace O-rings of injection valves.	AR07.03-P-1451AA		
7	Unscrew purge line (8) bolt (7) to cylinder head cover (9)	i Detach purge line (8) on engine side and place to the side.	*BA01.20-P-1001-01E		
8	Detach hoses (10) for air injection at supercharger (50)	<b>i</b> Hoses (10) remain at left aspirator shutoff valve (126/1) and at right aspirator shutoff valve (126/2).			
9	Detach hoses (11) for air injection at supercharger (50)				
10	Detach vacuum lines (12) at left aspirator shutoff valve (126/1) and at right aspirator shutoff valve (126/2)				
11	Detach crankshaft vent hoses (15) at left cylinder head cover (9) and at right cylinder head cover				
12	Detach vacuum line (16) at air pump switchover valve (Y32)				
13	Disconnect electrical connector at charge air temperature sensor (B17/8)				
14	Disconnect electrical connector at pressure sensor (B28)				
15	Disconnect electrical connector from air recirculation flap actuator (14)	<ul> <li>The electrical connector (14) on air recirculation flap actuator and electrical connector (13) for throttle valve actuator (M16/6) are identical and can be mixed up with each other. The wiring harness on the throttle valve actuator (M16/6) is marked with blue insulation tape. If this not the case then mark before disconnecting the electrical connectors (13, 14).</li> <li>Installation: Apply contact fluid to the pins of the electrical connectors (13, 14). Contact fluid</li> </ul>	*BR00.45-Z-1001-14A		
16	Detach electrical connector (23) at supercharger magnetic clutch (Y2/1)	Disconnect electrical connector carefully so that the plug housing on the supercharger magnetic clutch (Y2/1) is not damaged.			
17.1	Remove poly-V belt for supercharger	Engine 113.990/991/992 /995	AR13.21-P-1202RVK		
18.1	Remove poly-V belt	Engine 112.960/961	AR13.22-P-1202SVK		
19	Remove lower engine compartment paneling	Model 170 Model 203 Model 211 Model 215, 220 Model 230	AR61.20-P-1105A AR61.20-P-1105P AR61.20-P-1105T AR61.20-P-1105M AR61.20-P-1105R		
20	Drain coolant at radiator	Model 230 Model 170 Model 203 Model 211, 215, 220, 230	AR20.00-P-1142SV AR20.00-P-1142PV AR20.00-P-1142RVK		

21	Disconnect coolant hoses at coolant return line (17) and coolant feed line (18)	i Close off coolant hoses at coolant return line (17) and coolant feed line (18)	*000589403700
22	Remove bolt (19) from coolant return line (17) bracket and coolant feed line (18) bracket		
23.1	Remove right aspirator shutoff valve (126/2)	Engine 112 Nm	*BA09.41-P-1002-01C
23.2	Remove left aspirator shutoff valve (126/1) and right aspirator shutoff valve (126/2)	Engine 113	*BA09.41-P-1002-01C
24	Unscrew bolts (20) and bolt (21)	i Installation: Pay attention to different lengths of bolts. The bolt (21) has a length of 35 mm. The bolts (20) have a length of 30 mm.	*BA09.41-P-1002-01C
25	Screw bracket (22) onto compressor (50)	3	*112589006200
26	Attach engine hoist in the lifting eye of the bracket (22)	S Load regulator gotis://H 00.12 04.0	*112589006200
27	Lift out supercharger (50) together with charge air cooler and bottom charge air distributor (110/10)	<ul> <li>Check seals (110/9), replace if necessary.</li> <li>Installation: Use dowel bolt (arrow) for exact positioning of the supercharger (50) with charge air cooler and bottom charge air distributor (110/10) as well as for centering the gasket (110/9).</li> </ul>	*112589026200
28	Remove supercharger (50) from charge air cooler	Nm	*BA09.50-P-1001-01B
29	Install in the reverse order		
30	Inspect cooling system for leaks		AR20.00-P-1010RVK
31 🎏 A D	Read out fault memory and erase if necessary Connect STAR DIAGNOSIS and read out fault memory	STAR DIAGNOSIS diagnosis system	AD00.00-P-2000-04A
32	Perform basic programming	Model 170 Model 215, 220	AR00.19-P-0200B AR00.19-P-0200M

# Nm Crankcase ventilation, cylinder head cover

Number	Designation			Engine 112	Engine 113
BA01.20-P-1001-01E	Cylinder head cover bolt	Stage 1	Nm	9	9
		Stage 2	∡°	-	-

# Nm Charge air pipe/charge air cooling

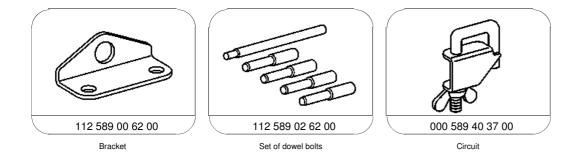
Number	Designation		Engine 112.960/ 961 AMG	Engine 113.990/ 991	Engine 113.992/ 993/995
BA09.41-P-1002-01C	Screw/bolt, bottom part of charge air distributor to cylinder head	Nm	23	20	20

## Mm Supercharger

Num	nber	Designation	Engine 112.960/ 961 AMG	Engine 113.992/ 995	Engine 113.991	Engine 113.990

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BA09.50-P-1001-01B	Screw/bolt, supercharger to charge air cooler N	١m	20	20	20	20



### **Repair materials**

Number	Designation	Order number
BR00.45-Z-1001-14A	Contact fluid	A 008 989 55 71