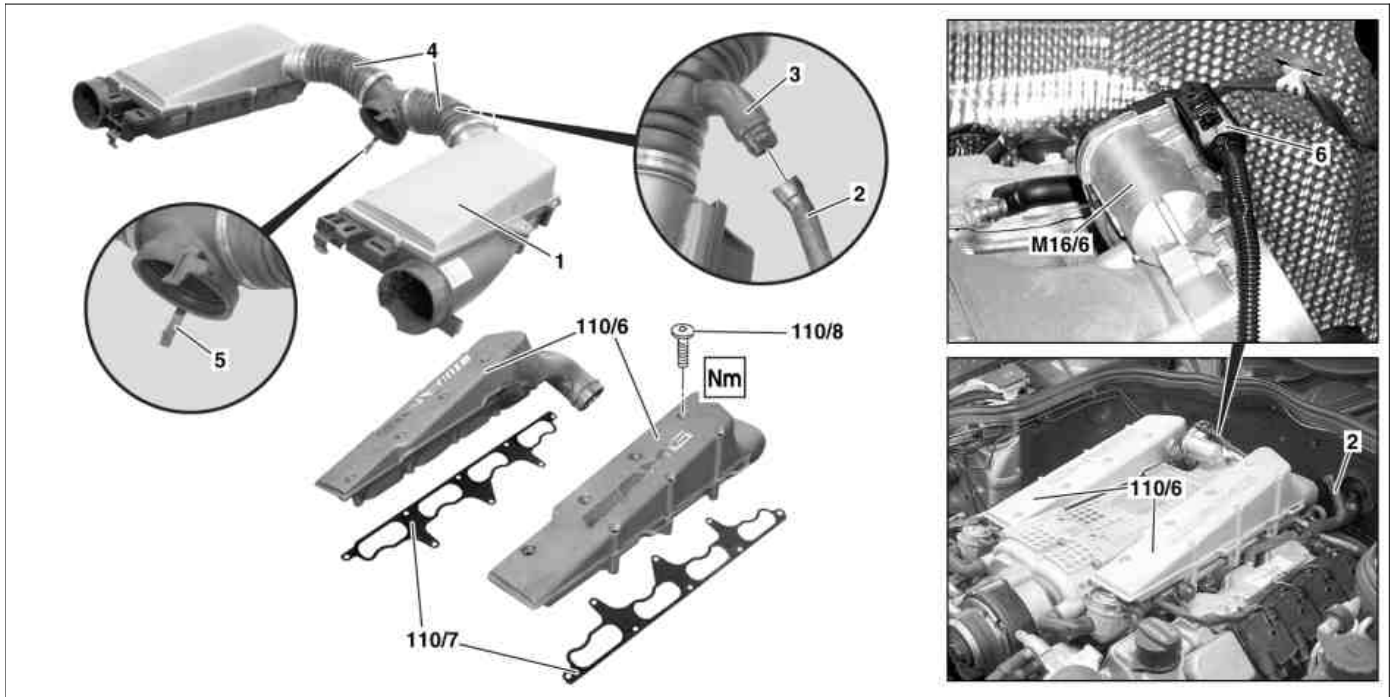


ENGINES 112.960 in MODEL 170.466  
 ENGINES 112.961 in MODEL 203.065 /265  
 ENGINES 113.992 in MODEL 230.474  
 ENGINES 113.990 in MODEL 211.076 /276  
 ENGINES 113.991 in MODEL 215.374, 220.074 /174  
 ENGINES 113.995 in MODEL 230.472



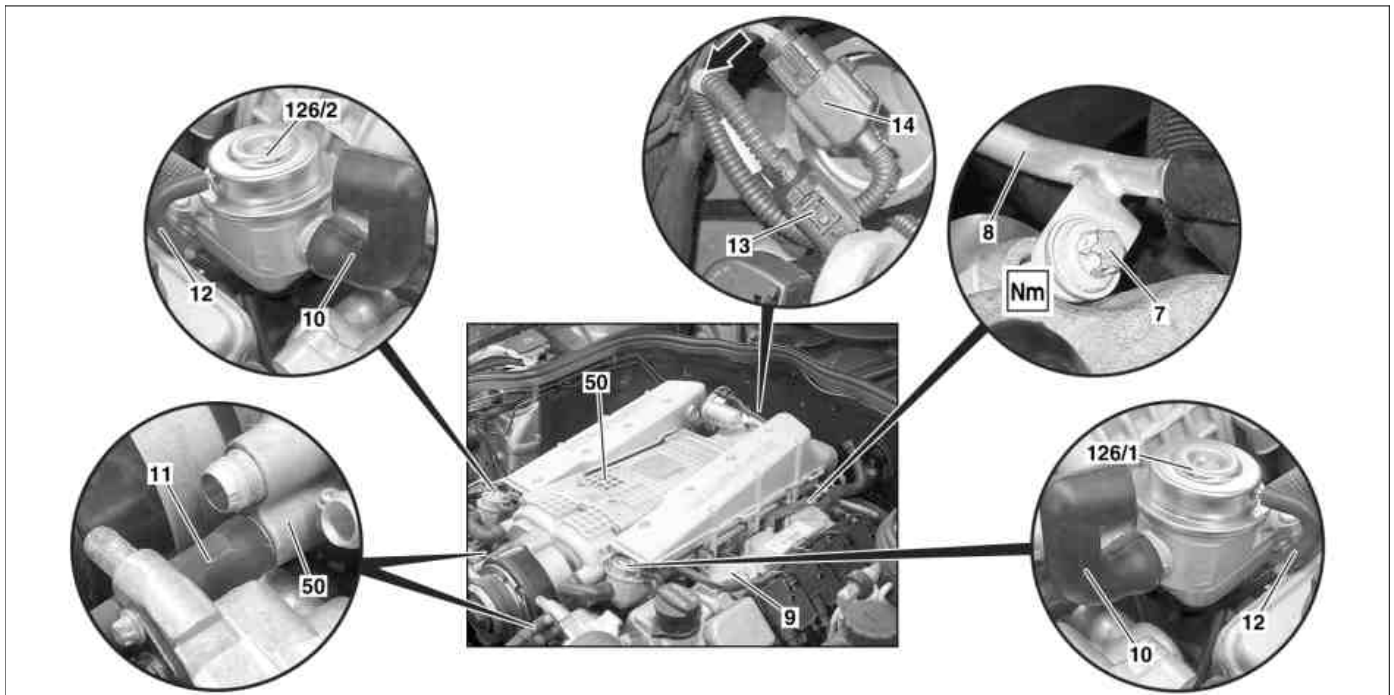
P09.50-2085-09

## Shown on engine 113.990

1 Air cleaner housing  
 2 Crankcase ventilation hose  
 3 Fitting  
 4 Intake lines

5 Catches  
 6 Connector  
 110/6 Top charge air distributor

110/7 Seal  
 110/8 Screw  
 M16/6 Throttle valve actuator



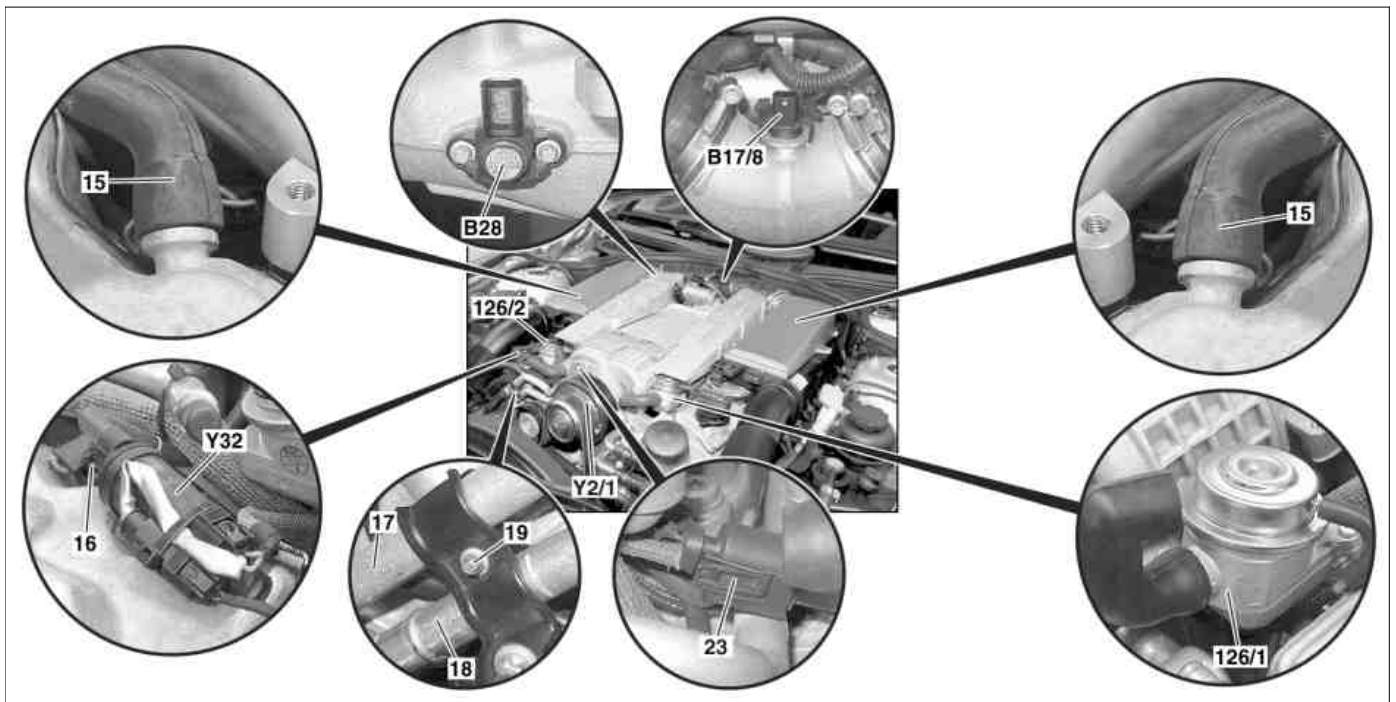
P09.50-2086-09

## Shown on engine 113.990

7 Screw  
 8 Purge line  
 9 Cylinder head cover  
 10 Hose

11 Hose  
 12 Vacuum line  
 13 Electrical connector  
 14 Electrical connecto

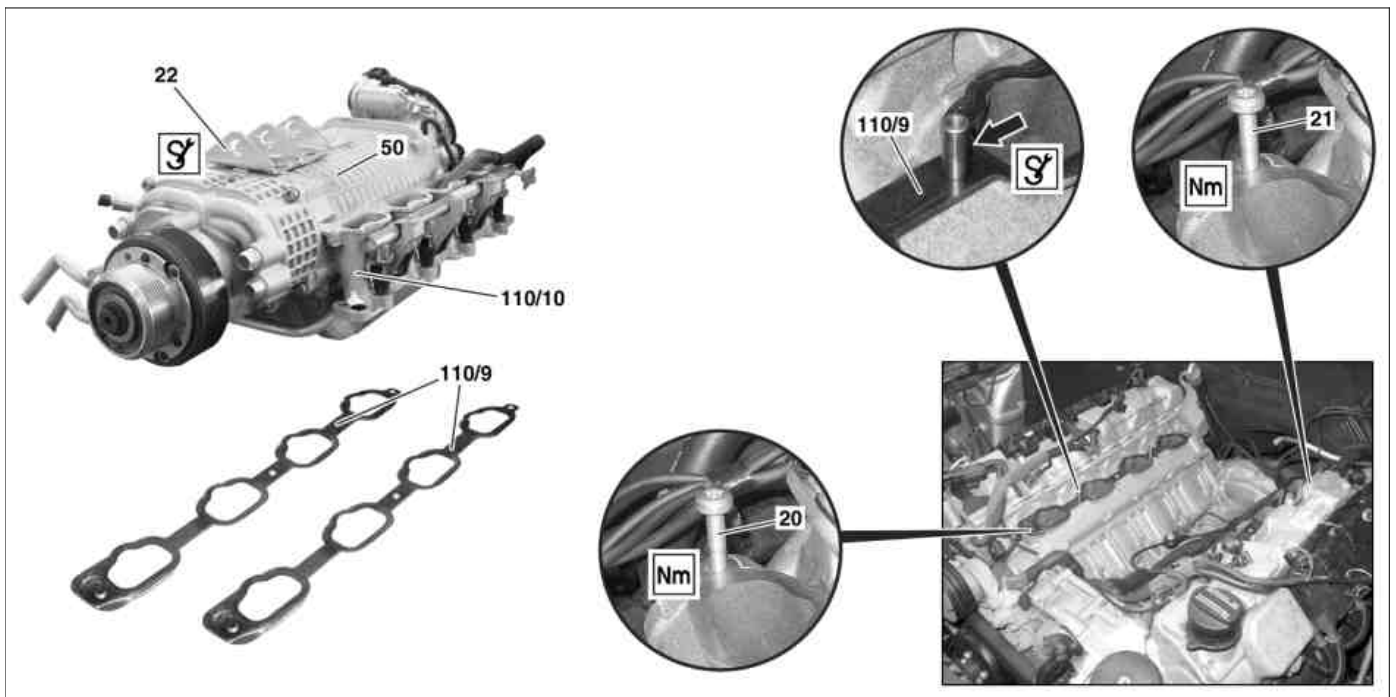
50 Compressor  
 126/1 Left air shutoff valve  
 126/2 Right air shutoff valve



P09.50-2102-09

**Shown on engine 113.990**

- |                               |                                     |                                   |
|-------------------------------|-------------------------------------|-----------------------------------|
| 15 Crankcase ventilation hose | 23 Electrical connector             | B28 Pressure sensor (charge air)  |
| 16 Vacuum line                | 126/1 Left air shutoff valve        | Y2/1 Supercharger magnetic clutch |
| 17 Coolant return line        | 126/2 Right air shutoff valve       | Y32 Air pump switchover valve     |
| 18 Coolant feed line          | B17/8 Charge air temperature sensor |                                   |
| 19 Screw/bolt                 |                                     |                                   |



P09.50-2088-09














**Shown on engine 113.990**

- |               |               |                                      |
|---------------|---------------|--------------------------------------|
| 20 Screw/bolt | 22  Bracket   | 110/9 Seal                           |
| 21 Screw/bolt | 50 Compressor | 110/10 Bottom charge air distributor |

**Modification notes**

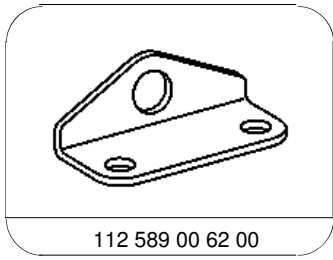
16.5.06	"Disconnect/connect battery ground line" removed		
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	<b>Remove/install</b>		
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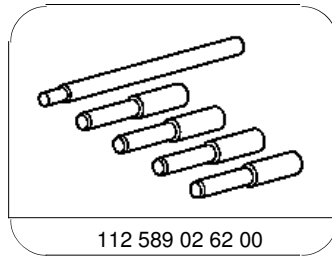
 <b>Danger!</b>	<b>Risk of death</b> caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between columns of vehicle lift and position four support plates at vehicle lift support points specified by vehicle manufacturer.	AS00.00-Z-0010-01A
 <b>Danger!</b>	<b>Risk of explosion</b> caused by fuel igniting, <b>risk of poisoning</b> caused by inhaling and swallowing fuel and <b>risk of injury</b> to eyes and skin caused by contact with fuel	No fire, sparks, open flames or smoking. Pour fuels only into suitable and appropriately marked containers. Wear protective clothing when handling fuel.	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  AH82.95-P-0001-01AM
	Notes regarding the Tele-Aid emergency call system		
2	Remove ground line(s) from battery (batteries)	 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).	 <b>Installation:</b> 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.	AR09.10-P-1150SVK
4	Remove top charge air distributor (110/6)		AR09.41-P-1320SVK
5	Remove the throttle valve actuator (M16/6)	 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>Installation:</b> Replace O-rings of injection valves.	AR07.03-P-1451AA
7	Unscrew purge line (8) bolt (7) to cylinder head cover (9)	 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)	 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)	 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).  <b>Installation:</b> Apply contact fluid to the pins of the electrical connectors (13, 14). Contact fluid	*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 170 Model 203 Model 211, 215, 220, 230	AR20.00-P-1142SV AR20.00-P-1142PV AR20.00-P-1142RVK



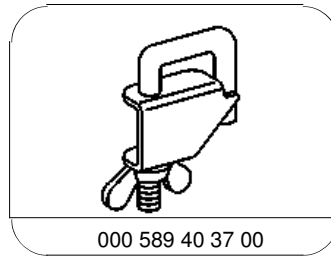
BA09.50-P-1001-01B	Screw/bolt, supercharger to charge air cooler	Nm	20	20	20	20
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Bracket



Set of dowel bolts



Circuit

**Repair materials**

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