

P09.40-2072-09

Illustrated on right turbocharger

- 2 Turbocharger
- 6 Pneumatic lines
- 7 Deceleration air valve
- 1 Support brace
- 2 Turbocharger

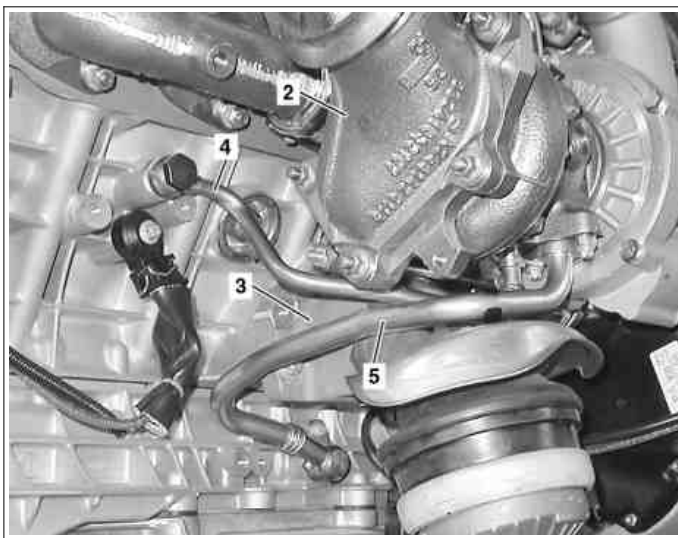
- 8 Vacuum cell
- 9 Bolts
- 10 Oil feed line
- 11 Coolant return line

- 12 Shields
- 13 Bolts
- 14 Coolant line
- 15 Cylinder head



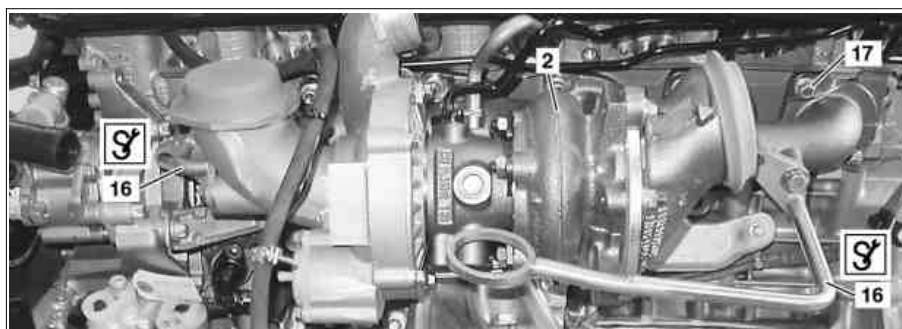
P09.40-2105-11

- 2 Turbocharger
- 3 Engine support
- 4 Coolant feed line
- 5 Oil return line



P09.40-2104-11

- 2 Turbocharger
- 16 Assembly arm
- 17 Nut



P09.40-2075-04

☒ ☒	Remove/install		
1.1	Remove engine	Model 220 with code (979) Special protection version, code (Z04) Light armoring or code (Z07) Highest protection Model 215. 220 without code (979) Special protection version, code (Z04) Light armoring or code (Z07) Highest protection	AR01.10-P-2400MC
1.2	Remove engine with front axle carrier	Model 216, 221 Model 230 without code (P99) Special model "AMG Black Series" Model 230 with code (P99) Special model "AMG Black Series"	AR01.10-P-2500SZ AR01.10-P-2500RC AR01.10-P-2500RBS
2	Mount engine onto assembly stand	Model 215, 220	
3	Remove right air filter housing	Model 215, 216, 220, 221, 230 without code (P99) Special model "AMG Black Series"	AR09.10-P-1150LA
4	Remove charge air cooler		AR09.41-P-6817HH
5	Remove engine charge air channel upstream of charge air cooler		AR09.41-P-8623H
6	Remove ignition coil module		AR15.12-P-1100LA
7	Remove support (1) from turbocharger (2)	Nm Nm	*BA09.40-P-1009-01H *BA09.40-P-1010-01H
8	Remove engine supports (3)	Nm	*BA22.10-P-1001-02A
9	Remove coolant feed line (4) from crankcase to turbocharger (2)	i Installation: Install new sealing rings. Nm Nm	*BA09.40-P-1005-01H *BA09.40-P-1007-01H
10	Remove oil return line (5) from turbocharger (2)	i Installation: Replace gasket and sealing ring. Nm Nm	*BA09.40-P-1004-01H *BA09.40-P-1006-01H
11	Detach pneumatic lines (6) from deceleration air valve (7) and from vacuum cell (8)	i Installation: Check condition of pneumatic lines (6) and hose clamps; replace if necessary.	
12	Remove bolts (9) of oil feed line (10) and of coolant return line (11) at turbocharger (2)	i Installation: Replace gaskets and sealing rings.	

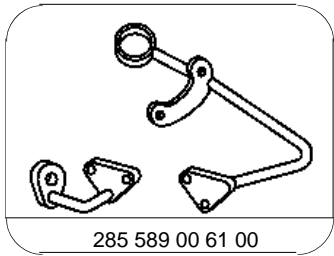
			*BA09.40-P-1002-01H
			*BA09.40-P-1003-01H
13	Remove shields (12) at turbocharger (2)		*BA09.40-P-1012-01H
14	Remove bolts (13) of coolant line (14) at cylinder head (15)		*BA09.40-P-1001-01H
15	Mount assembly tool (16) with 4 bolts (bolt M8x20) onto turbocharger (2)	Turbocharger and exhaust manifold are one unit and must not be disassembled, as this can lead to leakage. Assembly tools (16) serve to fix the flexible exhaust manifold parts in place. 	*285589006100
16	Unscrew nuts (17) at exhaust manifold	Installation: Observe torque diagram. 	AR09.40-P-6020-11MC *285589000300 *001589872100 *BA09.40-P-1011-01H
17	Remove turbocharger (2) with exhaust manifold from cylinder head (15)	Installation: Install new seal	
18	Install in the reverse order		

Turbocharger

Number	Designation		Engine 275
BA09.40-P-1001-01H	Coolant line to cylinder head	Nm	9
BA09.40-P-1002-01H	Bolt, oil feed line to turbocharger	Nm	8
BA09.40-P-1003-01H	Bolt, coolant return flow line to turbocharger	Nm	8
BA09.40-P-1004-01H	Bolt, oil return flow line to turbocharger	Nm	8
BA09.40-P-1005-01H	Bolt connecting coolant feed line to turbocharger	Nm	8
BA09.40-P-1006-01H	Bolt, oil return flow line to crankcase	Nm	8
BA09.40-P-1007-01H	Banjo bolt, coolant feed line to crankcase	Nm	25
BA09.40-P-1009-01H	Bolt, support to turbocharger	Nm	30
BA09.40-P-1010-01H	Bolt, turbocharger support to crankcase	Nm	20
BA09.40-P-1011-01H	Exhaust manifold to cylinder head	Nm	15
BA09.40-P-1012-01H	Shield to turbocharger	Nm	9

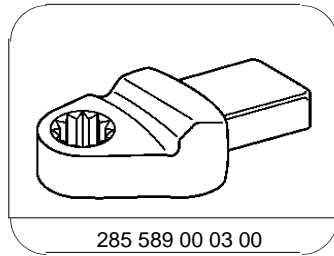
Engine support (engine side)

Number	Designation		Engine 275
BA22.10-P-1001-02A	Bolt, engine support to cylinder crankcase	Stage 1 Nm	20
		Stage 2 Δ°	90



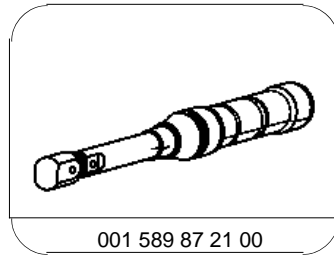
285 589 00 61 00

Assembly arm



285 589 00 03 00

Box wrench bit



001 589 87 21 00

Torque wrench