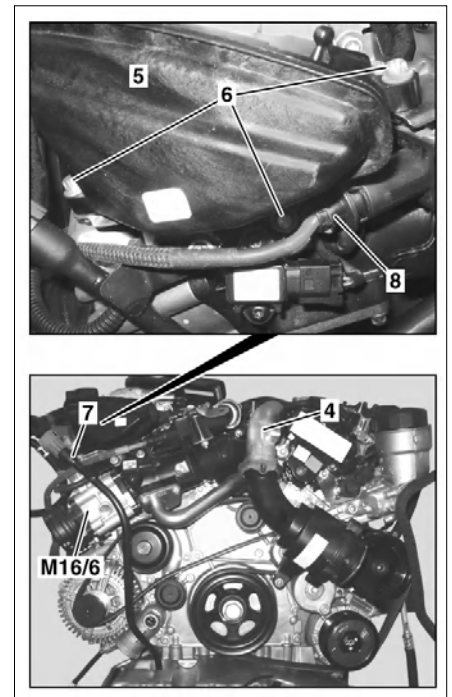


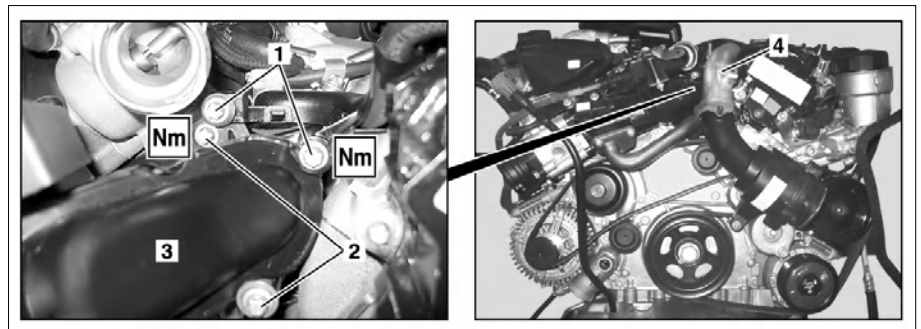
Engine 642 in model 164, 251

- 4 Engine charge air duct
- 5 Noise damper
- 7 Oil-dipstick guide tube
- M16/6 Throttle valve actuator



P09.20-2173-03

- 1 Screw/bolts
- 2 Screw/bolts
- 3 Mixing chamber



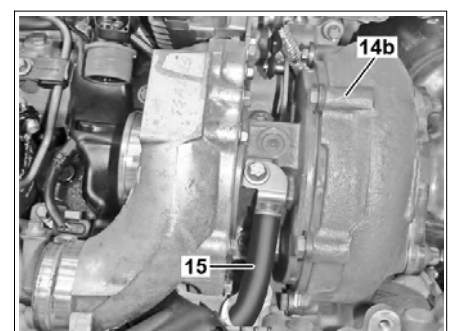
P09.20-2174-04



P09.40-2385-01

ATL without coolant cooling

ATL with coolant cooling  
14b ATL with coolant line



P09.40-2386-01

	<b>Danger !</b>	<b>Risk of injury.</b> Skin or eye injuries may result when handling hot or glowing objects.	Wear protective gloves, protective clothing and safety glasses, if necessary.	AS00.00-Z-0002-01A
		Notes on avoiding damage through contamination and foreign objects		AH00.00-P-5000-01A
		Information on preventing damage to electronic components due to electrostatic discharge		AH54.00-P-0001-01A
		<b>Remove/install</b>		
1.1	Removes strut tower brace	Engine 642 in model 164.8		AR62.30-P-2500GY
1.2	Remove partition wall between wheel wells	Engine 642 in model 251		AR62.30-P-2400RT

2	Remove engine cover	Engine 642 in model 164 Engine 642 in model 251	AR01.10-P-2405GZB AR01.10-P-2405RTB
3	Remove right engine air intake duct upstream of left air filter		
4	Remove charge air hose downstream of the charge air cooler		AR09.41-P-8625GZB
5	Remove engine charge air duct (4)		AR09.41-P-8622GZB
6	Remove noise damper (5)		AR09.40-P-6925GZB
7	Remove oil measuring rod tube (7)		AR18.40-P-3510GZB
8	Unscrew screw/bolts on holder for the actuator of the throttle valve (M16/6)	Bracket, throttle valve actuator to cylinder head	*BA09.41-P-1006-01J
9	Release and disconnect electrical connection from actuator of the throttle valve (M16/6)		
10	Release and disconnect electrical connections from glow time output stage (N14/3)	Engine 642 in model 164, 251	AR15.20-P-4500GZB
11	Release and disconnect electrical connection from of the temperature sensor for charge air (B17/8)		
12	Release and disconnect electrical connection from sensor for the charge air (B5/1)		
13	Release and disconnect electrical connection from EGR cooler bypass flap switchover valve (Y85)	Engine 642 in model 164, 251 as of model year 2009	
14	Unclip coolant line from mixing chamber (3)		
15	Detach vacuum hose on EGR cooler bypass flap switchover valve (Y85)	Engine 642 in model 164, 251 as of model year 2009	
16	Remove screw/bolts, EGR line to charge air distributor	<b>Installation:</b> Replace seal. EGR line to charge air distributor	*BA14.20-P-1003-01G
17	Unscrew screw/bolt for glow time output stage bracket (N14/3) on cylinder head	M6 × 1	*BA00.10-P-1002-04A
18	Remove screw/bolt (1)	Screw/bolt, mixing chamber to charge air distributor	*BA09.20-P-1001-01Q
19	Remove screw/bolts (2)	Screw/bolt, mixing chamber to charge air distributor	*BA09.20-P-1001-01Q
20	Push hose bracket and tubing bracket upwards on mixing chamber flange (3)		
21	Lift mixing chamber (3) up and out	<b>Installation:</b> Replace seals.	
22	Remove screw/bolts for engine charge air duct (4) downstream of charge air cooler	For an ATL with coolant line (14b) and for replacement of the mixing chamber (3). Engine 642 in model 164, 251	AR09.41-P-8624GZB
23	Pull engine charge air duct (4) downstream of charge air cooler out of the mixing chamber (3)	For an ATL with coolant line (14b) and for replacement of the mixing chamber (3). <b>Installation:</b> Replace seals.	
24	Install in the reverse order		
<b>Danger !</b>	<b>Risk of accident</b> from vehicle starting off by itself when engine running. <b>Risk of injury</b> (bruises and burns) resulting from working on the engine while it is being started or when it is running.	Secure vehicle to prevent it from starting off by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
25	Perform an engine test run and check engine for proper function		

Metric screws/bolts and nuts as per MBN 10 105, 10 143

Number	Designation	8.8	10.9
BA00.10-P-1002-04A	M6 × 1	Nm 9	13

Intake manifold

Number	Designation	Engine 642
BA09.20-P-1001-01Q	Screw/bolt, mixing chamber to charge air distributor	M6 Nm 9

Charge air pipe/charge air cooling

Number	Designation	Engine 642
--------	-------------	------------

BA09.41-P-1006-01J	Bracket, throttle valve actuator to cylinder head	Nm	9
--------------------	---	----	---

**Nm** Exhaust gas recirculation

Number	Designation		Engine 642.82/83/85/86/87/ 886/887/9
BA14.20-P-1003-01G	EGR line to charge air distributor	Nm	13