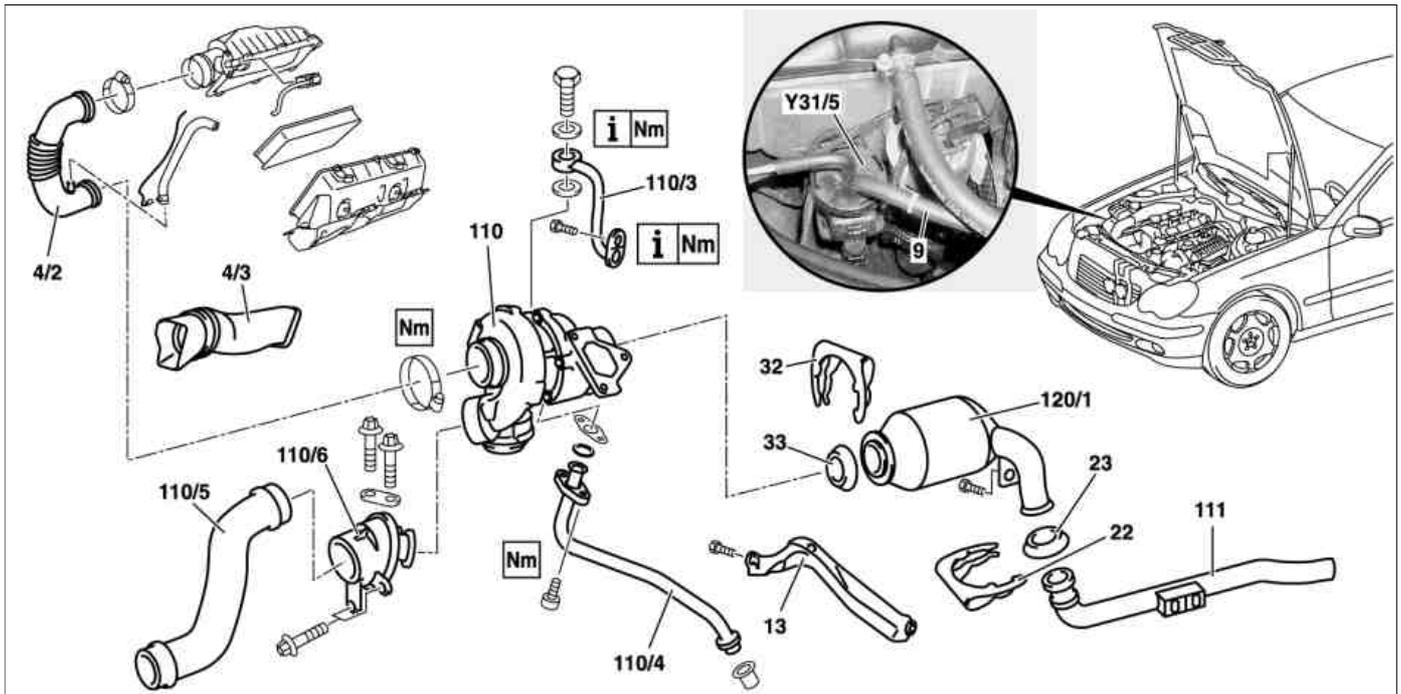


ENGINE 611.962 in MODEL 203.004 /006 /204 /206 /706

ENGINE 612.962 in MODEL 203.016 /216

ENGINE 612.967 in MODEL 209.316



P09.40-2030-09

4/2	Air intake hose	32	Hose clamp	110/5	Charge air hose
4/3	Air intake scoop	33	Sealing cone	110/6	Charge air pipe
9	Wiring	110	Turbocharger	111	Catalytic converter
13	Support	110/3	Oil feed line	120/1	Pre-catalytic converter
22	Hose clamp	110/4	Oil drain line	Y31/5	Charge pressure control vacuum transducer
23	Sealing cone				

## Modification notes

14.8.03	Value changed from 22 Nm to 9 Nm	Value in BA09.40-P-1005-01C modified on engine 611.962	*BA09.40-P-1005-01C
14.8.03	Value changed from 22 Nm to 9 Nm	Value in BA09.40-P-1005-01C modified on engine 612.962/967	*BA09.40-P-1005-01C

	Remove/Install		
1	Remove bottom section of sound-proofing capsule		AR94.30-P-5300P
2	Remove air cleaner		AR09.10-P-1050C
3	Disconnect vacuum supply lines (9) at boost pressure control vacuum transducer (Y31/5)		
4	Separate charge air hose (110/5) from charge air pipe at charge air cooler	<b>Installation:</b> Replace O-ring, in order to avoid leakage.	
5	Unbolt charge air pipe (110/6) at turbocharger (110) and at generator		
6	Remove collar clamp (32) of turbocharger (110) to pre-catalytic converter (120/1)	<b>Installation:</b> Replace sealing cone (33), in order to avoid leakage.	
7	Unbolt oil feed line (110/3) at crankcase and at turbocharger	<b>Installation:</b> Replace gaskets, in order to avoid leakage. Oil feed line to turbocharger Bolt of oil feed line to cylinder head.	*BA09.40-P-1004-01C *BA09.40-P-1005-01C
8	Unbolt support (13) at bottom of turbocharger	<b>Installation:</b> Slacken bottom bolt at support (13) and install free of stress. Bolt of support to turbocharger Bolt of turbocharger support to crankcase	*BA09.40-P-1006-01C *BA09.40-P-1007-01C
9	Remove collar clamp (22) of pre-catalytic converter (120/1) to catalytic converter (111)	<b>Installation:</b> Replace sealing cone (23), in order to avoid leakage.	
10	Detach pre-catalytic converter (120/1) at crankcase		

11	Unscrew bolts of turbocharger at manifold	Flange connection of exhaust manifold to turbocharger	*BA09.40-P-1001-01C
12	Take out turbocharger (110) together with oil drain line (110/4) toward top		
13.1	Unscrew oil drain line (110/4) from turbocharger (110)	Only when replacing turbocharger (110) or leakage of full face gasket or sealing rings. <b>Installation:</b> Replace full face gasket. Check sealing ring, replace if necessary, in order to avoid leakage. Collect feathering-out oil in a suitable vessel, in order to avoid environment contamination. Bolt of oil outlet line to turbocharger.	*BA09.40-P-1003-01C
14	Install in the reverse order		
15	Check fluid level, correct if necessary		
<b>Danger!</b>	<b>Risk of accident.</b> Accidents may result if the vehicle starts off unintentionally with the engine running. <b>Risk of injury</b> as working around the engine during start-up or while running may result in contusions and burns	Secure vehicle to prevent it from moving. Wear closed and snug-fitting work clothes. Do not grasp hot or rotating parts.	AS00.00-Z-0005-01A
16	Run engine and inspect for oil leaks		

**Turbocharger**

Number	Designation		Engine 611.962	Engine 612.962/967
BA09.40-P-1001-01C	Flange connection of exhaust manifold to turbocharger	Nm	30	30
BA09.40-P-1003-01C	Bolt of oil outlet line to turbocharger	Nm	9	9
BA09.40-P-1004-01C	Oil feed line to turbocharger	Screw socket	Nm	30
		Banjo bolt	Nm	18
BA09.40-P-1005-01C	Bolt of oil feed line to cylinder head	Nm	9	9
BA09.40-P-1006-01C	Bolt of support to turbocharger	Nm	30	30
BA09.40-P-1007-01C	Bolt of turbocharger support to crankcase	Nm	20	20