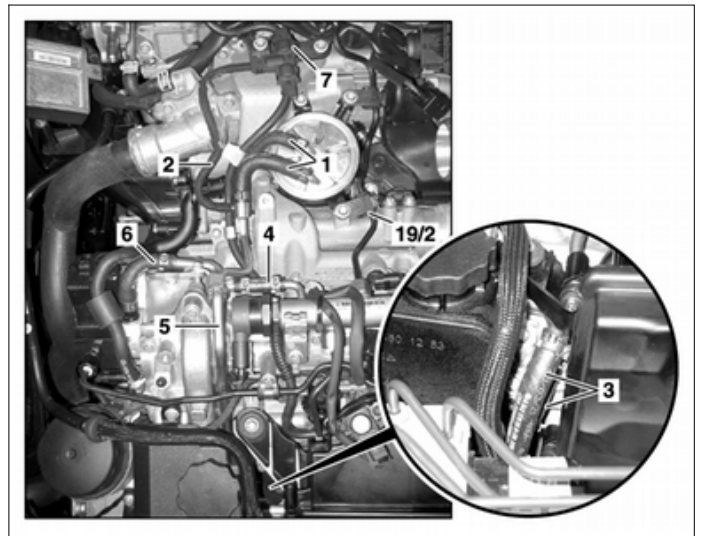
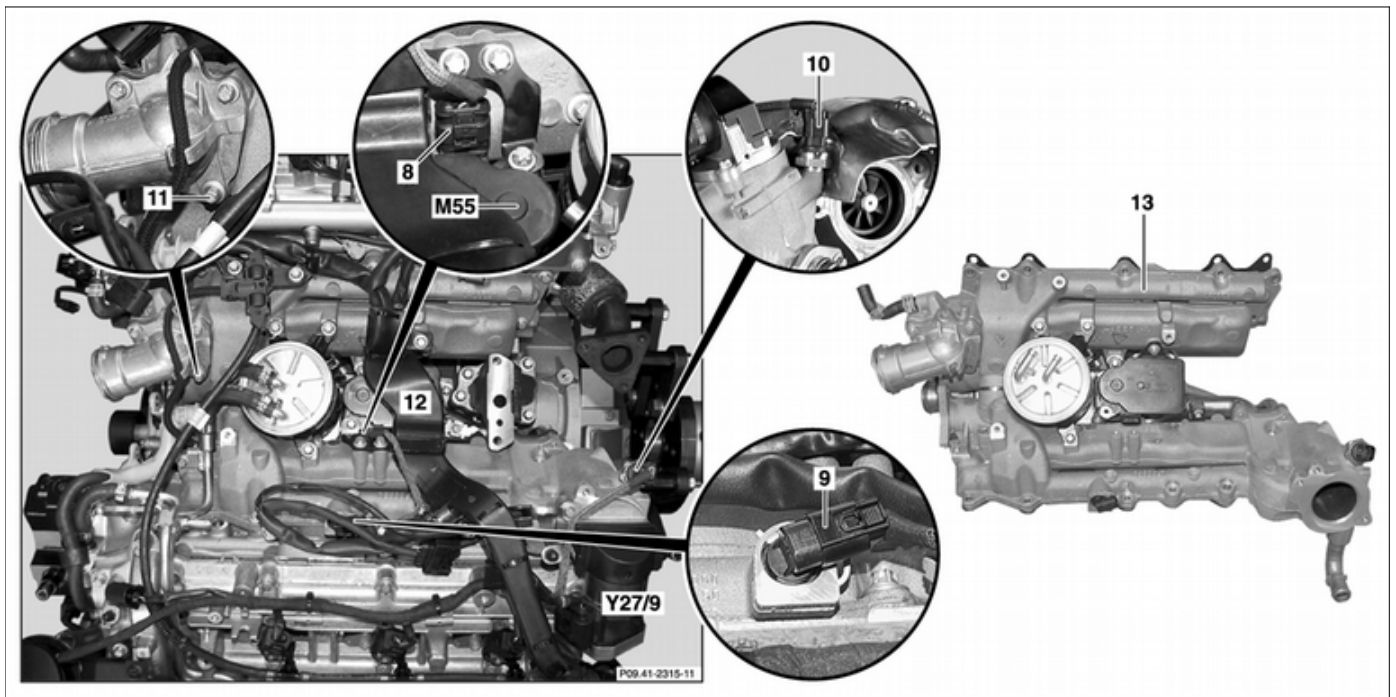


Engine 642 in model 207, 212, 218, 221

- 1 Fuel lines
- 2 Leak oil line
- 3 Fuel lines
- 4 Rail leak oil line
- 5 Fuel pipe
- 6 Fuel supply line
- 7 Distributor leak oil line
- 19/2 Vacuum line

















P09.41-2316-11



P09.41-2314-09

- 8 Electrical connector
- 9 Electrical connector
- 10 Electrical connector
- 11 Screw
- 12 Engine wiring harness
- 13 Charge air distributor
- Y27/9 Exhaust gas recirculation actuator

	Remove/install		
 Warning	Risk of accident from vehicle starting off by itself when engine running. Risk of injury (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
1	Drain coolant.	Model 207 with engine 642 Model 212, 218 with engine 642 Model 221 with engine 642	AR20.00-P-1142CW AR20.00-P-1142OGE AR20.00-P-1142SXI
2	Detach coolant line from the thermostat housing.		
3	Remove mixer housing.	Model 207, 212, 218 with engine 642	AR09.20-P-1320OGE

		Model 221 with engine 642	AR09.20-P-1320SXI
4	Remove exhaust gas recirculation actuator (Y27/9).	Model 207, 212, 218 with engine 642 except code 927 (EU6 emissions standard) Engine 642 in model 207, 212, 218 with code 927 (EU6 emissions standard) Model 221 with engine 642	AR14.20-P-1020GZB AR14.20-P-1020CD AR14.20-P-1020SXI
5	Remove exhaust gas turbocharger.	Model 207, 212, 218 with engine 642 Model 221 with engine 642	AR09.40-P-6020OGE AR09.40-P-6020SXI
6	Remove oil supply connection fitting of exhaust gas turbocharger.		AR09.40-P-6023SXI
7	Remove left rail.	Engine 642 in model 207, 212, 218, 221 except code 927 (EU6 emissions standard) Engine 642 in model 207, 212, 218, 221 with code 927 (EU6 emissions standard)	AR07.03-P-1010SXI AR07.03-P-1010SXJ
8	Unscrew union nuts of the vacuum line (19/2).	 Close off connections for vacuum line (19/2) immediately after removal as a protection against contamination. Do not crush or deform vacuum line (19/2).  Fuel line between left and right tail  Record plug	*BA07.16-P-1024-01C *129589009100
9	Remove leak oil line (2) from the fuel lines (1).		
10	Detach fuel lines (3).	 To do this open clamps. Check clamps for damage; replace if necessary.	
11	Detach fuel supply line (6) of the high-pressure pump.	 To do this open clamps. Check clamps for damage; replace if necessary.	
12	Remove screws of the fuel pipe (5).		
13	Remove fuel pipe (5) and fuel filter with cage.	 To do this, remove screws from the cage.  Bolt, fuel filter cage to charge air manifold	*BA47.20-P-1001-02D
14	Unscrew leak oil line distributor (7).	 Leak oil line to charge air distribution line	*BA07.16-P-1023-01C
15	Detach engine wiring harness (12) from the CDI control unit.	Model 221 with engine 642	
16	Disconnect electrical connector from the glow plugs.	At left cylinder head only	
17	Detach electrical connector from the injectors.	At left cylinder head only	
18	Remove intake port shutoff.	Model 207, 212, 218 with engine 642 Model 221 with engine 642	AR09.20-P-1314CO AR09.20-P-1314SXI
19	Disconnect electrical connector (10) from the exhaust pressure sensor.	Engine 642 in model 207, 212, 218, 221 with code 474 (Diesel particulate filter)	
20	Detach electrical connector coupling from the coolant temperature sensor.		
21	Place engine wiring harness (12) to one side.		
22	Disconnect hose from the expansion reservoir on the charge-air distributor (13).	Model 207, 212, 218 with engine 642	
23	Release water hose from the partition.	Model 207, 212, 218 with engine 642	
24	Remove screw (11) from the thermostat housing.	 Bolt, coolant thermostat housing to charge air manifold	*BA20.10-P-1002-01S
25	Remove screws from the charge-air distributor (13).	Bolt plan for charge air manifold  Bolt, charge air distributor to cylinder head	AR09.41-P-1310-01SXI *BA09.41-P-1009-01J
26	Remove charge-air distributor (13).	 Installation: Replace seal. Leakage can occur otherwise.  Installation: For model 221: Install cage for fuel filter to fix the charge air distributor (13).	
27	Install in the reverse order.		
28	Check for oil leaks with the engine running.		
29	Check fuel system for leaks with engine running.		

 Common rail diesel injection system (CDI)

Number	Designation	Engine 642
BA07.16-P-1023-01C	Leak oil line to charge air distribution line M6 × 23 Nm	12

 Common rail diesel injection system (CDI)

Number	Designation	Engine 642
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BA07.16-P-1024-01C	Fuel line between left and right tail	M15	Nm	27
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Nm Charge air pipe/charge air cooling

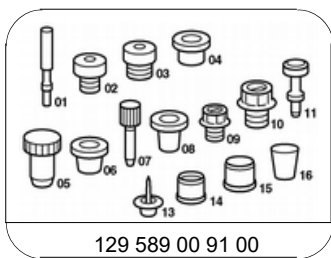
Number	Designation		Engine 642
BA09.41-P-1009-01J	Bolt, charge air distributor to cylinder head	Nm	18

Nm Coolant pump, coolant thermostat

Number	Designation		Engine 642
BA20.10-P-1002-01S	Bolt, coolant thermostat housing to charge air manifold	Nm	9

Nm Fuel filter

Number	Designation		Engine 642
BA47.20-P-1001-02D	Bolt, fuel filter cage to charge air manifold	Nm	12



Record plug