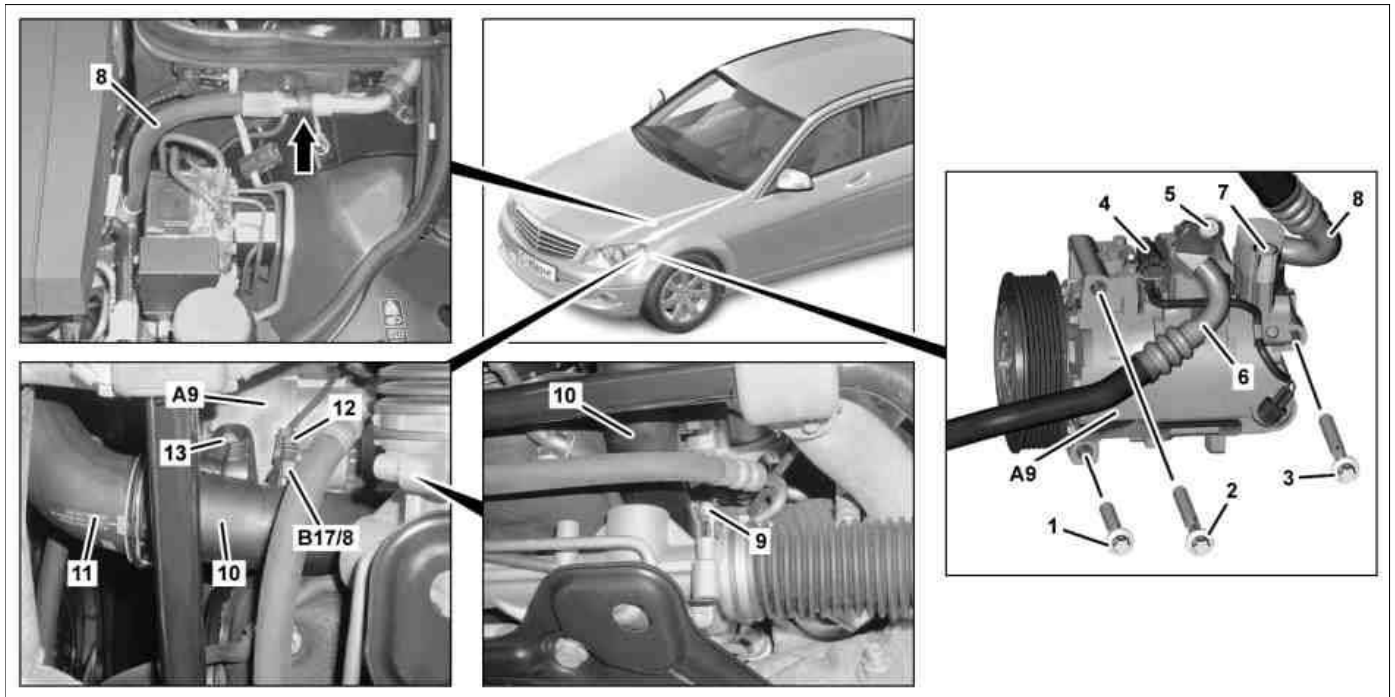


Engine 271 in model 204.3, 207
 Engine 271, 272, 646.8 in model 204.0/2
 Engine 271.9 in model 212
 with code 924 (Bivalent natural gas drive)





















P83.55-2281-09

Shown on MODEL 204.0 with ENGINE 646.8

1	Screw	9	Screw/bolt (ENGINE 646.8)
2	Screw	10	Charge air pipe (ENGINE 646.8)
3	Screw	11	Charge air hose (ENGINE 646.8)
4	Electrical connector	12	Electrical connector (ENGINE 646.8)
5	Screw	13	Screw/bolt (ENGINE 646.8 or ENGINE 272)
6	High pressure pipe	A9	Refrigerant compressor
7	Screw	B17/8	Charge air temperature sensor (ENGINE 646.8)
8	Low pressure pipe		

	Risk of explosion caused by welding or soldering work on closed air conditioning system. Risk of poisoning caused by inhaling overheated refrigerant vapors. Risk of injury to skin and eyes caused by contact with liquid refrigerant.	Never perform welding work on or near a closed air conditioning system. No smoking or open flames. Wear safety glasses and protective gloves. Work only in well ventilated areas. Carry out repair work on the air conditioning system circuit only after the system has been drained.	AS83.00-Z-0001-01A
⚠	Protect air conditioning circuit and components from moisture when carrying out repair work		AH83.30-P-0005-01A
⚠	Procedure for a damaged or leaky air conditioning system		AH83.30-N-0004-01A
i	Notes on handling refrigerant R134a		AH83.30-N-0003-01A
⚡	Remove/install		
1	Drain air conditioning system		AR83.30-P-1760CW
2	Remove front end struts to integral carrier	Engine 271 in model 207.4 Nm Mounting brace to front end/front axle carrier	*BA33.10-P-1004-01M
3	Slacken poly-V-belt and remove from belt pulley of the refrigerant compressor (A9)	Engine 271 in model 204.0/2 Engine 271 in model 204.3, 207 Engine 271.9 in model 212 with code 924 (Bivalent natural gas drive) Engine 272 in model 204.0/2	AR13.20-P-0001CW AR13.20-P-0001CV

		Engine 646.8 in model 204.0/2	AR13.22-P-1202T
4.1	Remove engine compartment paneling	Engine 271 in model 204.3, 207 Engine 271, 272 in model 204.0/2 Engine 271.9 in model 212 with code 924 (Bivalent natural gas drive)	AR61.20-P-1105EW
4.2	Remove bottom section of soundproofing	Engine 646.8 in model 204.0/2	AR94.30-P-5300EW
5	Remove bolt (13)	Engine 272, 646.8 in model 204.0/2  Engine 272 in model 204.0/2Screw/bolt, refrigerant compressor to timing case/ crankcase/engine support  Engine 646.8 in model 204.0/2Bolt, refrigerant compressor to timing case cover	*BA83.55-P-1001-01M *BA83.55-P-1002-01H
6	Disconnect electrical connector (12) for charge air temperature sensor (B17/8)	Engine 646.8 in model 204.0/2	
7	Unscrew bolt (9)	Engine 646.8 in model 204.0/2	
8	Disconnect charge air hose (11) from charge air cooler and remove together with charge air pipe (10)	Engine 646.8 in model 204.0/2  Oil marks and a small oil fill quantity in the charge air hose (11) or charge air pipe (10) come from the crankcase ventilation system and are not a cause for complaint.  Installation: Ensure that charge air hose (11) is firmly attached to charge air cooler.  Installation: Check sealing ring of charge air pipe (10) for damage. If there are problems: ↓ Replace sealing ring of charge air pipe (10).	
9.1	Remove screws/bolts (1, 2, 3) from refrigerant compressor (A9) and secure refrigerant compressor (A9) to prevent it from falling down	Engine 271 in model 204.0/2 Engine 271 in model 204.3, 207 Engine 271.9 in model 212 with code 924 (Bivalent natural gas drive)  Bolt, refrigerant compressor to timing case/crankcase/engine support	*BA83.55-P-1003-01G
9.2	Remove screws/bolts (2, 3) from refrigerant compressor (A9) and secure refrigerant compressor (A9) to prevent it from falling down	Engine 272, 646.8 in model 204.0/2  Engine 272 in model 204.0/2Screw/bolt, refrigerant compressor to timing case/ crankcase/engine support  Engine 646.8 in model 204.0/2Bolt, refrigerant compressor to engine support	*BA83.55-P-1001-01M *BA83.55-P-1003-01H
10	Disconnect electrical connector (4) at A/C compressor (A9)		
11	Disconnect low-pressure line (8) at separating point (arrow) and seal with stop plugs	 Installation: Replace sealing ring of low-pressure line (8). Moisten sealing ring with compressor oil.  Record plug	*129589009100
12	Remove screw/bolt (7)	 Engine 646.8 in model 204.0/2Bolt, refrigerant line to refrigerant compressor  Engine 272 in model 204.0/2Bolt, refrigerant line to refrigerant compressor  Engine 271 in model 204.0/2 Engine 271 in model 204.3, 207 Engine 271.9 in model 212 with code 924 (Bivalent natural gas drive)Bolt, refrigerant lines to refrigerant compressor	*BA83.55-P-1007-01H *BA83.55-P-1003-01M *BA83.55-P-1002-01G
13	Remove low-pressure line (8) from refrigerant compressor (A9) and seal openings with stop plugs	 Installation: Replace sealing ring of low-pressure line (8). Moisten sealing ring with compressor oil.  Detaching tool  Record plug	*211589006300 *129589009100
14	Remove screw/bolt (5)	 Engine 271 in model 204.0/2 Engine 271 in model 204.3, 207 Engine 271.9 in model 212 with code 924 (Bivalent natural gas drive)Bolt, refrigerant lines to refrigerant compressor  Engine 272 in model 204.0/2Bolt, refrigerant line to refrigerant compressor	*BA83.55-P-1002-01G *BA83.55-P-1003-01M

		Engine 646.8 in model 204.0/2 Bolt, refrigerant line to refrigerant compressor	*BA83.55-P-1007-01H
15	Remove high pressure line (6) from refrigerant compressor (A9), move it upwards into the engine compartment and seal openings with stop plugs	Installation: Replace sealing ring of high-pressure line (6). Moisten sealing ring with compressor oil. Detaching tool Record plug	*211589006300 *129589009100
16	Cover front axle carrier with rags and remove refrigerant compressor (A9) upwards out of engine compartment		
17	Install in the reverse order		
18	Connect diagnostic system and perform break-in of refrigerant compressor (A9)	When installing new refrigerant compressor (A9). Menu option: Control unit adaptations.	AD AD00.00-P-2000-04A

Front axle carrier

Number	Designation	Model 207
BA33.10-P-1004-01M	Mounting brace to front end/front axle carrier	M8 Nm 23
		M10 Nm 50

Refrigerant compressor

Number	Designation	Engine 272
BA83.55-P-1001-01M	Screw/bolt, refrigerant compressor to timing case/crankcase/engine support	Nm 20

Refrigerant compressor

Number	Designation	Engine 271 in model 171, 172, 203, 209, 211, 212	Engine 271 in model 204, 207 with Denso refrigerant compressor
BA83.55-P-1002-01G	Bolt, refrigerant lines to refrigerant compressor	Nm 20	20

Refrigerant compressor

Number	Designation	Engine 271 in model 204, 207 with Valeo refrigerant compressor
BA83.55-P-1002-01G	Bolt, refrigerant lines to refrigerant compressor	Nm 20

Refrigerant compressor

Number	Designation	Engine 646.8 in model 204 with Denso refrigerant compressor Engine 646.8 in model 211	Engine 646.8 in model 204 with Valeo refrigerant compressor
BA83.55-P-1002-01H	Bolt, refrigerant compressor to timing case cover	Nm 20	20

Refrigerant compressor

Number	Designation	Engine 271 in model 171, 172, 203, 209, 211, 212	Engine 271 in model 204, 207 with Denso refrigerant compressor
BA83.55-P-1003-01G	Bolt, refrigerant compressor to timing case/crankcase/engine support Nm	20	20

Nm Refrigerant compressor

Number	Designation	Engine 271 in model 204, 207 with Valeo refrigerant compressor
BA83.55-P-1003-01G	Bolt, refrigerant compressor to timing case/crankcase/engine support Nm	20

Nm Refrigerant compressor

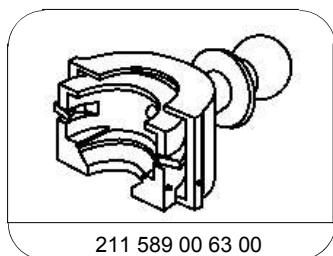
Number	Designation	Engine 646.8 in model 204 with Denso refrigerant compressor Engine 646.8 in model 211	Engine 646.8 in model 204 with Valeo refrigerant compressor
BA83.55-P-1003-01H	Bolt, refrigerant compressor to engine support Nm	20	20

Nm Refrigerant compressor

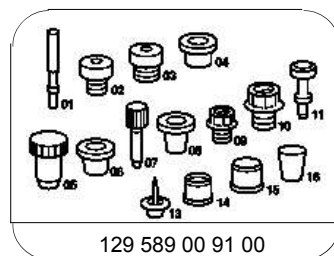
Number	Designation	Engine 272
BA83.55-P-1003-01M	Bolt, refrigerant line to refrigerant compressor M8 Nm	20

Nm Refrigerant compressor

Number	Designation	Engine 646.8 in model 204 with Denso refrigerant compressor Engine 646.8 in model 211	Engine 646.8 in model 204 with Valeo refrigerant compressor
BA83.55-P-1007-01H	Bolt, refrigerant line to refrigerant compressor Nm	20	20



Detaching tool



Record plug