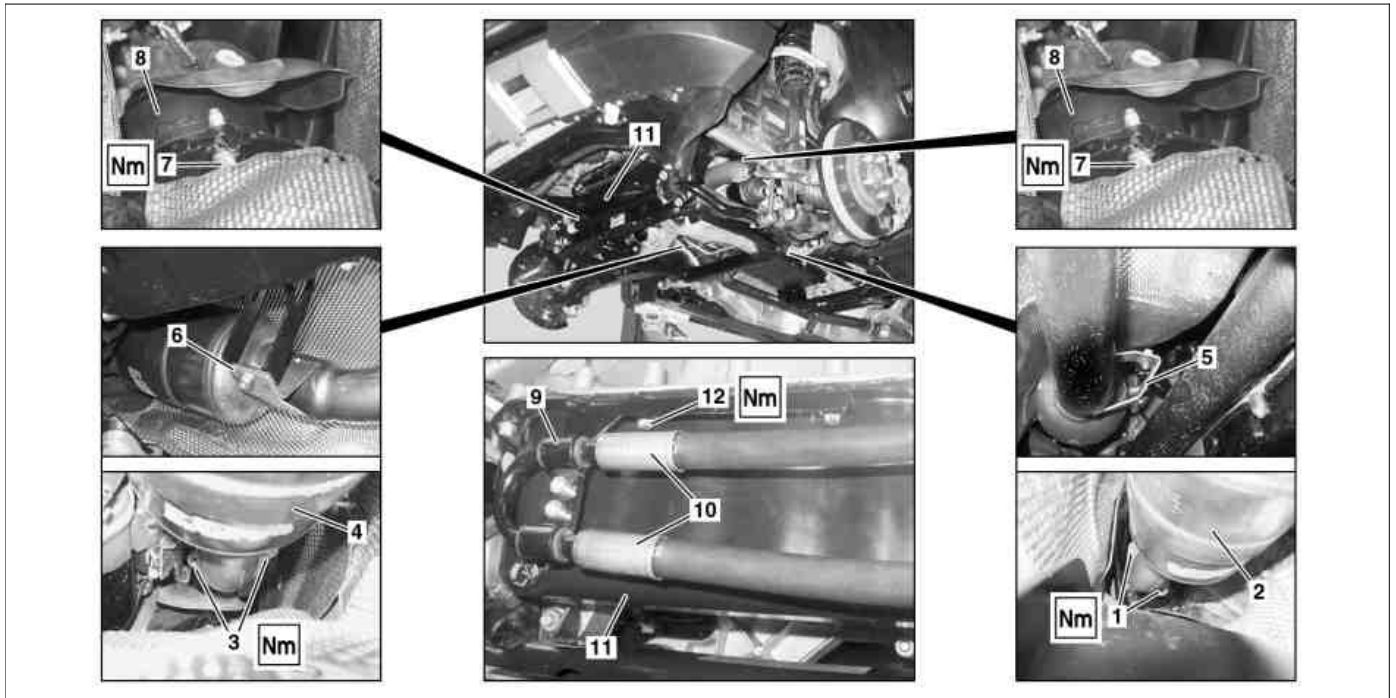


Engine 272, 273 in model 164

Engine 272, 273, 276 in model 251



P01.45-2200-09

## Shown on model 164

- |                             |                         |                           |
|-----------------------------|-------------------------|---------------------------|
| 1 Bolts                     | 5 Left exhaust bracket  | 9 Bracket                 |
| 2 Left catalytic converter  | 6 Right exhaust bracket | 10 High pressure pipe     |
| 3 Bolts                     | 7 Screw                 | 11 Oil pan bottom section |
| 4 Right catalytic converter | 8 Engine mount          | 12 Screw                  |

	<b>Risk of death</b> caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between vehicle lift columns and position the four support plates at the vehicle lift support points specified by the vehicle manufacturer.	AS00.00-Z-0010-01A
	<b>Risk of death</b> when touching components on vehicles with high-voltage on-board electrical system	Do not touch damaged or defective components and open lines of the high-voltage on-board electrical system. Persons who wear electronic implants (e.g. cardiac pacemakers) must <b>not</b> carry out any work on high-voltage on-board electrical systems.	AS54.00-Z-0001-01A
	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
	<b>Remove/install</b>		
1	Remove windshield wiper system	Engine 276.8 in model 251	AR82.30-P-6400RT
2.1	Remove air filter housing	Engine 272 (except 272.973), 273 in model 164, 251	AR09.10-P-1150GZA
2.2	Remove left and right air filter housing with right engine air intake duct upstream of air filter	Engine 276.8 in model 251	AR09.10-P-1150GQC
3	Remove power electronics with power distributor	Engine 272.973 in model 164.195	AR08.10-P-0011GZH
4	Put on engine hoist	Model 164 Model 251 Observe the manufacturer's assembly specifications and safety information.	AR33.10-P-0100-01GZ AR33.10-P-0100-01RT

		Model 251 Bolt, partition wall reinforcement between wheel well liners to fender Engine lifting device	*BA62.30-P-1008-01E *240589006100
5	Drain engine oil, collect if necessary	Model 164, 251 with engine 272 Model 164, 251 with engine 273 Model 251 with engine 276 <b>Installation:</b> Replace sealing ring.	AP18.00-P-0101PIT AP18.00-P-0101RX AP18.00-P-0101W
6	Remove screw/bolt for (1) left CAT (2) and screw/bolts (3) right CAT (4) from exhaust manifold	Engine 272 Engine 272 in model 164 Bolt, flange connection to exhaust pipe/exhaust manifold Engine 272 in model 251 Bolt, flange connection to exhaust pipe or exhaust manifold	*BA49.10-P-1002-01W *BA49.10-P-1002-01X
7	Remove the screw/bolts for left exhaust bracket (5) and right exhaust bracket (6)	Engine 272 Engine 272 in model 164 Bolt, catalytic converter bracket to catalytic converter Engine 272 in model 251 Bolt, catalytic converter bracket to catalytic converter	*BA49.10-P-1001-01W *BA49.10-P-1001-01X
8	Remove screw/bolts (7) of engine mounts (8) on front axle carrier	Model 164 Bolt, front engine mount to front axle carrier Model 251 Bolt, front engine mount to front axle carrier	*BA22.10-P-1001-03G *BA22.10-P-1001-03F
9	Lift engine	Pay attention when lifting out engine that no cables and lines are damaged and that engine does not lean against the bulkhead.	
10	Remove bracket (9) for high-pressure lines (10) on oil pan bottom section (11)	Engine 272, 273 Screw/bolt, power steering pressure line to oil pan	*BA01.45-P-1004-01M
11	Detach torsion bar from front axle carrier	Model 251	AR32.20-P-0300RT
12	Remove screw/bolts (12) of oil pan bottom section (11)	Engine 272, 273 Screw/bolt, oil pan bottom section to oil pan ENGINE 276 Bolt, oil pan bottom section to oil pan	*BA01.45-P-1003-01M *BA01.45-P-1003-01E
13	Loosen oil pan bottom section (11) from oil pan and remove. Notes on sealant path for oil pan Notes on sealant path for oil pan Notes on sealant path for oil pan	Model 164, 251 Engine 276 in model 251 If oil pan bottom section (11) cannot be loosened from the oil pan, heat oil pan bottom section (11) around sealing surfaces using a heat gun. Then slide an  assembly wedge between sealing surface, to separate oil pan bottom section (11) from oil pan. <b>Installation:</b> Pay attention to sealant path on oil pan bottom section (11). Sealant, Loctite 5970, 50 ml Mounting wedge Application gun	AH01.45-P-0001-01VA AH01.45-P-0001-01SX AH01.45-P-0001-01MMA AR01.45-P-7500-04MM *BR00.45-Z-1013-01A *110589035900 *112589002500
	<b>Clean</b>		
14	Clean sealing surfaces on oil pan bottom section (11) and oil pan	Do not use any sharp-edged tools or abrasive paper. The sealing surfaces can be damaged otherwise. Loctite 7200 Loctite 7063 cleaning spray (150 ml)	AR01.00-P-0050-01A *BR00.45-Z-1038-04A *BR00.45-Z-1046-04A
15	Install in the reverse order		
16	Read out fault memory using the diagnostic system and clear if necessary		AD00.00-P-2000-04A

17	Warning	<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. Carry out engine test run, checking the engine for leaktightness and proper operation	Secure vehicle to prevent it from starting off by itself. Wear buttoned-up and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A

**Nm** Oil pan

Number	Designation		Engine 276
BA01.45-P-1003-01E	Bolt, oil pan bottom section to oil pan	Nm	14

**Nm** Oil pan

Number	Designation		Engine 272	Engine 273
BA01.45-P-1003-01M	Screw/bolt, oil pan bottom section to oil pan	Nm	9	14

**Nm** Oil pan

Number	Designation		Engine 272	Engine 273
BA01.45-P-1004-01M	Screw/bolt, power steering pressure line to oil pan	M6 Nm	10	10

**Nm** Engine mount, engine support (engine side)

Number	Designation		Model 251
BA22.10-P-1001-03F	Bolt, front engine mount to front axle carrier	Nm	53

**Nm** Engine mount, engine support (engine side)

Number	Designation		Model 164
BA22.10-P-1001-03G	Bolt, front engine mount to front axle carrier	Nm	53

**Nm** Exhaust system

Number	Designation		Engine 272, 273 in model 164
BA49.10-P-1001-01W	Bolt, catalytic converter bracket to catalytic converter	Nm	20

**Nm** Exhaust system

Number	Designation		Engine 272, 273, 276 in model 251
BA49.10-P-1001-01X	Bolt, catalytic converter bracket to catalytic converter	Nm	20

**Nm** Exhaust system

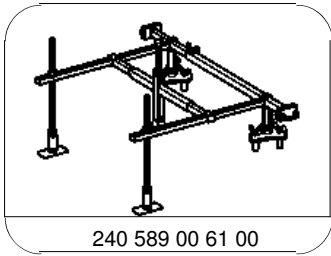
Number	Designation		Engine 272, 273 in model 164
BA49.10-P-1002-01W	Bolt, flange connection to exhaust pipe/exhaust manifold	Nm	20

**Nm** Exhaust system

Number	Designation		Engine 272, 273, 276 in model 251
BA49.10-P-1002-01X	Bolt, flange connection to exhaust pipe or exhaust manifold	Nm	20

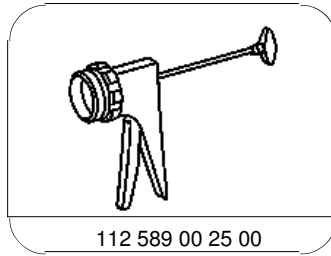
**Nm** Crossmember and front reinforcement

Number	Designation	Model 251
BA62.30-P-1008-01E	Bolt, partition wall reinforcement between wheel well liners to fender Nm	10



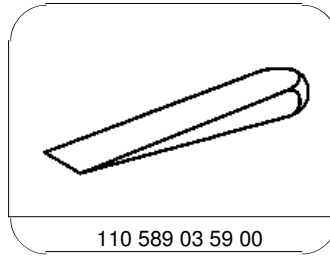
240 589 00 61 00

Engine lifting device



112 589 00 25 00

Application gun



110 589 03 59 00

Mounting wedge

**Repair materials**

Number	Designation	Order number
BR00.45-Z-1013-01A	Sealant, Loctite 5970, 50 ml	A 003 989 98 20 10
BR00.45-Z-1038-04A	Loctite 7200	Henkel AG & Co. KGaA <a href="http://www.loctite.de">http://www.loctite.de</a>
BR00.45-Z-1046-04A	Loctite 7063 cleaning spray (150 ml)	A 001 986 71 71 10