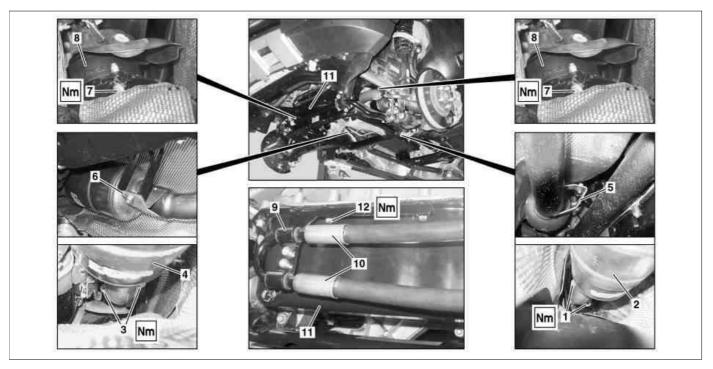
Engine 272, 273 in model 164 Engine 272, 273, 276 in model 251



P01.45-2200-09

Shown on model 164

- Bolts
 Left catalytic converter
- 3 Bolts
- 4 Right catalytic converter
- Left exhaust bracket
- 6 Right exhaust bracket
- 7 Screw
- 8 Engine mount

- 9 Bracket
- 10 High pressure pipe
- 11 Oil pan bottom section
- 12 Screw

	Risk of death when working on component parts and systems with U >= 30 V alternating voltage (AC) or U >= 60 V direct voltage (DC)	Do not touch damaged or defective live component parts and lines or non-insulated electrical connections and lines.	AS00.00-Z-0035-01A
	Risk of death 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
	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
X	Remove/install		
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	AR33.10-P-0100-01GZ
		Model 251	AR33.10-P-0100-01RT
		i Observe the manufacturer's assembly specifications and safety information.	
		Model 251Bolt, partition wall reinforcement between wheel well liners to	*BA62.30-P-1008-01E
		fender Signature Signatur	*240589006100

5	Drain engine oil, collect if necessary		
o ⊫≆AP	Drain engine oil, collect il necessary	Model 164, 251 with engine 272	AP18.00-P-0101PIT
F AP		Model 164, 251 with engine 273	AP18.00-P-0101RX
F AP		Model 251 with engine 276	AP18.00-P-0101W
		i Installation: Replace sealing ring.	7.11 10.00 1 010111
6	Remove screw/bolt for (1) left CAT (2) and	Engine 272	
O	screw/bolts (3) right CAT (4) from exhaust manifold	Liigillo 272	
		Engine 272 in model 164Bolt, flange connection to exhaust pipe/exhaust manifold	*BA49.10-P-1002-01W
		Engine 272 in model 251Bolt, flange connection to exhaust pipe or exhaust manifold	*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 164Bolt, catalytic converter bracket to catalytic convertor	*BA49.10-P-1001-01W
		Engine 272 in model 251Bolt, catalytic converter bracket to catalytic converter	*BA49.10-P-1001-01X
8	Remove screw/bolts (7) of engine mounts (8) on front axle carrier	Model 164Screw/bolt, front engine mount to front axle carrier	*BA22.10-P-1001-03G
		Model 251Bolt, front engine mount to front axle carrier	*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	Engine 272, 273	
	lines (10) on oil pan bottom section (11)	Nm Committee to the committee of the com	*BA01.45-P-1004-01M
		Screw/bolt, power steering pressure line to oil pan	DA01.43-F-1004-01W
11	Detach torsion bar from front axle carrier	Model 251	
	Betadir tordion bar from from axic damer	INIOGOI ZOT	AR32.20-P-0300RT
12	Remove screw/bolts (12) of oil pan bottom	Nm Engine 272, 273Screw/bolt, oil pan bottom	
	section (11)	section to oil pan ENGINE 276Bolt, oil pan bottom section	*BA01.45-P-1003-01E
		to oil pan	B/1011101 1000 012
13	Loosen oil pan bottom section (11) from oil	Model 164, 251	
	pan and remove.		
	Notes on sealant path for oil pan	Engine 272, 273 in model 164 Engine 272, 273 in model 251	AH01.45-P-0001-01VA
	Notes on sealant path for oil pan	Engine 272, 273 in model 251 Engine 276 in model 251	AH01.45-P-0001-01MMA
	Notes on sealant path for oil pair	Engine 276 in model 251	AR01.45-P-7500-04MM
		i If oil pan bottom section (11) cannot be	ARO 1.43-F-7 300-041VIIVI
		loosened from the oil pan, heat oil pan bottom	
		section (11) around sealing surfaces using a	
		heat gun. Then slide an \mathfrak{T} assembly wedge	
		between sealing surface, to separate oil pan	
		bottom section (11) from oil pan.	
		Installation: Pay attention to sealant path	
		on oil pan bottom section (11). Sealant, Loctite 5970, 50 ml	*DD00 45 7 4042 044
		1	*BR00.45-Z-1013-01A *110589035900
		Mounting wedge	
<u></u>	Cloan	Application gun	*112589002500
14	Clean		AD04.00 D.0050.044
14	Clean sealing surfaces on oil pan bottom section (11) and oil pan	(D)	AR01.00-P-0050-01A
		Do not use any sharp-edged tools or abrasive	
		paper.	
		The sealing surfaces can be damaged	
		otherwise.	*DD00 45 7 4000 044
		Loctite 7000	*BR00.45-Z-1038-04A
15	Install in the reverse ander	Loctite 7063 (400 ml) cleaning spray	*BR00.45-Z-1046-04A
15 16	Install in the reverse order		
IU	Read out fault memory using the diagnostic system and clear if necessary		
₩AD	-, siea		AD00.00-P-2000-04A
⚠ Warning	Risk of accident from vehicle starting off by	Secure vehicle to prevent it from starting off by	
vvaiiiiiy دے	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.	itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	2000 0
	proming.	I	I

Carry out engine test run, checking the engine for leaktightness and proper operation

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	M6	Nm	10	10
	line to oil pan				

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	Screw/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 convertor	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

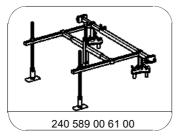
Number	Designation		Engine 272, 273 in model 164
BA49.10-P-1002-01W	Bolt, flange connection to exhaust pipe/exhaust manifold	Nm	20

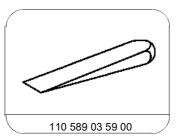
Nm Exhaust system

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

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







Application gun

Engine lifting device

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 http://www.loctite.de
BR00.45-Z-1046-04A	Loctite 7063 (400 ml) cleaning spray	A 001 986 71 71 09