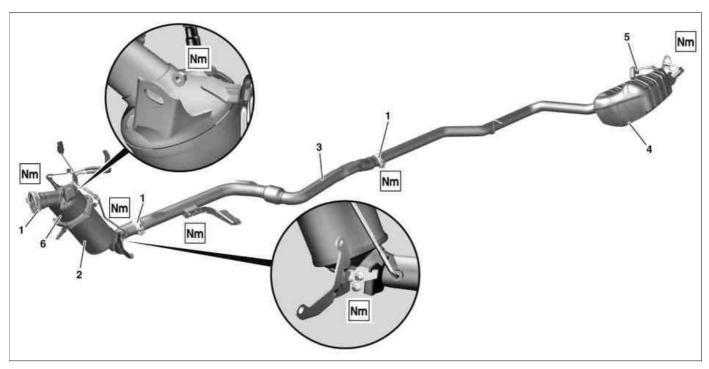
ENGINES 642, 646, 651 in MODEL 204 ENGINES 642, 651 in MODEL 207 ENGINES 651 in MODEL 172

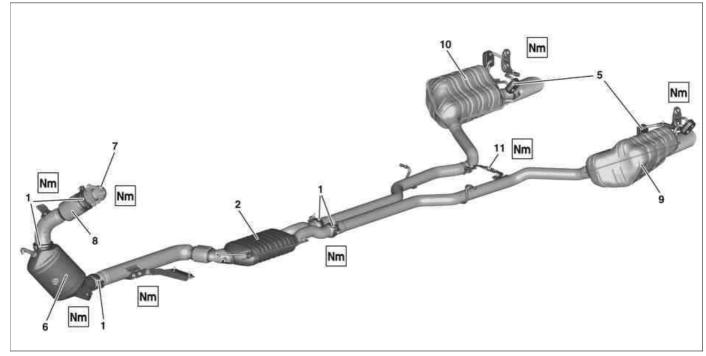


P49.10-2778-09

Exhaust system for engine 646

- 1 Pipe clamp
- 2 Diesel particulate filter
- 3 Connecting pipe
- 4 Rear muffler

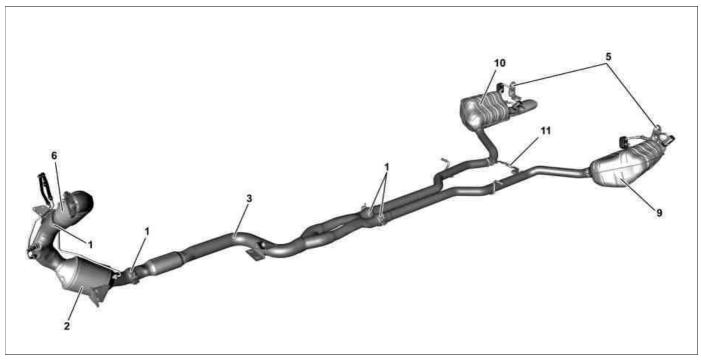
5 Exhaust rubber mount6 Catalytic converter



P49.10-2783-09

Exhaust system for engine 642 up to model year 2009

- 1 Pipe clamp
- 2 Diesel particulate filter
- 5 Exhaust rubber mount
- 6 Catalytic converter
- 7 Exhaust pipe
- 8 Catalytic converter pipe
- 9 Left rear muffler
- 10 Right rear muffler
- 11 Rear cross strut



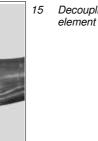
P49.10-2869-09

Exhaust system, engine 642 as of model year 2009

15

- 1 Pipe clamp
- 2 Diesel particulate filter
- 3 Connecting pipe

- 5 Exhaust rubber mount
- 6 Catalytic converter
- 5 Decoupling



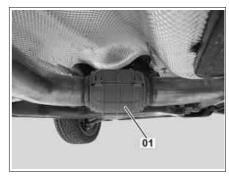
P49.10-2914-01



9

10

11



Left rear muffler

Right rear muffler

Rear cross strut

P49.10-2913-01

XX	Remove/install		
	Risk of death caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between columns of vehicle lift and position four support plates at vehicle lift support points specified by vehicle manufacturer.	AS00.00-Z-0010-01A
	Risk of injury to skin and eyes caused by handling hot or glowing objects.	Wear safety gloves, protective clothing and safety glasses, if necessary.	AS00.00-Z-0002-01A
	Risk of injury caused by scraping or cutting body parts on sharp vehicle parts	Always wear protective gloves when working on or near sharp and non-deburred vehicle parts. Deburr repair panels.	AS00.00-Z-0017-01A
(\$)	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
1.1	Remove both lower engine compartment paneling	Model 204.9 i Installation: Only install both lower engine compartment panelings after engine	AR61.20-P-1105CY
1.2	Remove lower bottom sections of soundproofing	test run and leak test. Model 172 Model 204.0/2	AR94.30-P-5300W
		Model 207 i Installation: Only install lower bottom sections of soundproofing after engine test run and leak test.	AR94.30-P-5300EW
2	Mount assembly tool (01) on decoupling element (15)	Engine 642, 651	

		When working on exhaust system, the decoupling element (15) can get damaged through bending or twisting of the exhaust pipe. The exhaust system can begin to leak at the decoupling element (15) as a result. Engine 642 Engine 651	*642589016300 *651589066300
0.4	Daniel and a state of the state		
3.1	Remove catalytic converter diesel particulate filter unit	Model 204 with engine 646	AR49.10-P-5501CWI
		Model 172, 204 (except model 204.9) with engine 651, except 4MATIC Model 207 with engine 651	AR49.10-P-5501CD
3.2	Remove catalytic converter	Model 204 with engine 642 up to model year	AR49.10-P-5500CO
		Model 204 with engine 642 as of model year 2009	AR49.10-P-5500CW
		Model 204.9 with engine 651	AR49.10-P-5500OMD
		Model 207 with engine 642	AR49.10-P-5500OGE
4	Remove diesel particulate filter (2) and	Model 204. with engine 646 with code (474)	AR14.40-P-1000T
	pressure lines for pressure differential sensor	Particulate filter	AD44 40 D 4000 014/1
		Model 204 with engine 642 as of model year 2009	AR14.40-P-1000CWI
		Model 207 with engine 642	AR14.40-P-1000OGE
5	Remove corresponding diagonal strut(s) at	Model 172, 207.4, if necessary	
	rear		
		Model 207.4	
		Nm	*BA61.10-P-1007-01H
		Nm	*BA61.10-P-1008-01H
		Nm	*BA61.10-P-1009-01H
		Model 172	
		Nm	*BA61.10-P-1005-01A
		Nm	*BA61.10-P-1006-01A
		Nm	*BA61.10-P-1007-01A
		Nm	
6	Detach corresponding components of exhaus	<u> </u>	*BA61.10-P-1008-01A
	system at separating points and remove	i Installation: Align components for exhaust system tension-free before tightening the bolted connections. i Installation: Apply lubricating paste to exhaust rubber bearings (5). Antifriction paste, rubber parts 2.5 kg, DB supply specification 6867.00	*BR00.45-Z-1002-06A
		Screw/bolt, transmission to engine: Nm Transmission 711.67	*BA26.10-P-1001-01F
		Engine 651 in model 172:	
		Nm Transmission 716.6	*BA26.10-P-1001-01C
		Transmission 722.6, 722.9 Model 172	*BA27.40-P-1008-01A
		Screw/bolt, clamp to diesel particulate filter/turbocharger	*BA49.10-P-1006-01AI
		Screw/bolt, diesel particulate filter to cylinder head	*BA49.10-P-1007-01Al
		Screw/bolt, diesel particulate filter bracket to transmission Screw/bolt, clamp to exhaust line in the	*BA49.10-P-1009-01AI *BA49.10-P-1010-01AI
		center/diesel particulate filter Nm Screw/bolt, clamp to exhaust line in the	*BA49.10-P-1011-01Al
		rear/exhaust line in the center Nm Screw/bolt, exhaust rubber mount holder	*BA49.10-P-1012-01Al
		to vehicle underbody/rear axle carrier No Screw/bolt, exhaust tip clamp to muffler	*BA49.10-P-1013-01AI
		Engine 642, 646, 651 in model 204: Nm Screw/bolt connecting catalytic converter	*BA49.10-P-1002-01AC
		to turbocharger Nm Screw/bolt, diesel particulate filter clamp	*BA49.10-P-1004-01AC
		to turbocharger Nm Screw/bolt, exhaust pipe bracket to	*BA49.10-P-1008-01AC
		transmission Screw/bolt, exhaust pipe bracket to exhaust pipe	*BA49.10-P-1009-01AC
		Screw/bolt, exhaust system to main floor panel	*BA49.10-P-1010-01AC
® D-:I 40 0/40/	00 1/00/40		Page 2 of

		Nm Nut, suspension ring to connecting pipe	*BA49.10-P-1011-01AC
		Rear muffler clamp nut to connecting pipe	
		diesel particulate filter	
		Nut, exhaust rubber mount holder to rear axle	*BA49.10-P-1014-01AC
		Nm Screw/bolt, exhaust rubber mount holder to frame floor assembly/rear axle carrier	*BA49.10-P-1015-01AC
		Nm Screw/bolt, cross connection left rear to right rear	*BA49.10-P-1016-01AC
		Screw/bolt, exhaust pipe to turbocharger	*BA49.10-P-1019-01AC
		Nm Nut, exhaust pipe clamp to catalytic converter pipe or exhaust pipe	*BA49.10-P-1020-01AC
		Nm Nut, catalytic pipe clamp or exhaust pipe to catalytic converter	*BA49.10-P-1021-01AC
		Nm Clamp nut/bolt between catalytic converter/connecting pipe/diesel particulate	*BA49.10-P-1022-01AC
		filter Mm Bolt/nut, catalytic converter hose clamp to diesel particulate filter	*BA49.10-P-1023-01AC
		Nm Bolt/nut, bracket of diesel particulate filter to lower diesel particulate filter	*BA49.10-P-1027-01AC
		Catalytic converter/diesel particle unit nut bolt/nut on crankcase	*BA49.10-P-1029-01AC
		Nm Screw/bolt, bracket to transmission	*BA49.10-P-1033-01AC
		Screw/bolt connecting catalytic converter clamp to exhaust gas turbocharger	*BA49.10-P-1034-01AC
		Engine 642, 651 in model 207: Mm Screw/bolt connecting catalytic converter to turbocharger	*BA49.10-P-1002-01AE
		Mm Screw/bolt, diesel particulate filter clamp to turbocharger	*BA49.10-P-1003-01AE
		Nut attaching diesel particulate filter above	*BA49.10-P-1004-01AE
		Nm Nut, catalytic converter clamp to diesel particulate filter	*BA49.10-P-1005-01AE
		Screw/bolt, upper diesel particulate filter bracket to diesel particulate filter/cylinder crankcase	*BA49.10-P-1006-01AE
		Screw/bolt, diesel particulate filter bracket to oil pan	*BA49.10-P-1008-01AE
		Bolt/nut, bracket of diesel particulate filter to lower diesel particulate filter	*BA49.10-P-1009-01AE
		Screw/bolt, bracket to transmission	*BA49.10-P-1011-01AE
		Screw/bolt, connecting pipe clamp to diesel particulate filter	*BA49.10-P-1020-01AE
		Screw/bolt, exhaust bracket to transmission	*BA49.10-P-1023-01AE
		Nm Screw/bolt, exhaust bracket to exhaust	*BA49.10-P-1024-01AE *BA49.10-P-1025-01AE
		Screw/bolt, exhaust system to main floor panel	
		Nm Nut, suspension ring to connecting pipe	*BA49.10-P-1026-01AE
		Nm Nut, rear muffler clamp to connecting pipe	*BA49.10-P-1031-01AE *BA49.10-P-1035-01AE
		Screw/bolt, cross connection left rear to right rear	DA49.10-P-1030-01AE
		Screw/bolt, exhaust rubber mount holder to frame floor assembly/rear axle carrier	*BA49.10-P-1036-01AE
	Clean	to manne noon assembly/rear axie carrier	
7	Remove combustion and corrosion residues at the connection points		
8	Check exhaust rubber mount (5) for damage and wear		
9	Install in the reverse order		
4	Checking		
10	Check installation position and unobstructed movement of all components of the exhaust system		
	Risk of accident caused by vehicle starting off by itself when engine is running. Risk of injury caused by contusions and burns during starting procedure or when working near the		AS00.00-Z-0005-01A
	starting procedure or when working near the engine as it is running	Do not touch hot or rotating parts.	

Nm Complete manual transmission

Number	Designation	Transmission 711.67	
BA26.10-P-1001-01F	Screw/bolt, transmission to engine Nm	39	

Nm Complete manual transmission

Number	Designation	Trans- mission 716.6
BA26.10-P-1001-01C	Screw/bolt, transmission to engine Nm	40

Nm Housing

Number	Designation			Transmission 722.6 except 722.660/661/662/ 663/666/673/674	Trans- mission 722.9
BA27.40-P-1008-01A	Screw/bolt, automatic transmission to engine	M10×40	Nm	39	38
		M10×90	Nm	39	38
		M12	Nm	-	-

Nm Exhaust system

Number	Designation	Engine 651 in model 172
BA49.10-P-1006-01AI	Screw/bolt, clamp to diesel particulate filter/turbocharger Nn	35
BA49.10-P-1007-01AI	Screw/bolt, diesel particulate filter to cylinder head Nn	20
BA49.10-P-1009-01AI	Screw/bolt, diesel particulate filter bracket to transmission Nn	39
BA49.10-P-1010-01Al	Screw/bolt, clamp to exhaust line in the center/diesel Nn particulate filter	35
BA49.10-P-1011-01Al	Screw/bolt, clamp to exhaust line at the rear/exhaust line in the center	35

BA49.10-P-1012-01Al	Screw/bolt, exhaust rubber mount holder to vehicle underbody/rear axle carrier	Nm	20
BA49.10-P-1013-01AI	Screw/bolt, exhaust tip clamp to muffler	Nm	25

Nm Exhaust system

Number	Designation		Engine 642, 646, 651 in model 204
BA49.10-P-1002-01AC	Screw/bolt connecting catalytic converter to turbocharger	Nm	20
BA49.10-P-1004-01AC	Screw/bolt, diesel particulate filter clamp to turbocharger	Nm	18
BA49.10-P-1008-01AC	Screw/bolt, exhaust pipe bracket to transmission	Nm	20
BA49.10-P-1009-01AC	Screw/bolt, exhaust pipe bracket to exhaust pipe	Nm	20
BA49.10-P-1010-01AC	Screw/bolt, exhaust system to main floor panel	l8 Nm	20
	M	I10 Nm	50
BA49.10-P-1011-01AC	Nut, suspension ring to connecting pipe	Nm	20
BA49.10-P-1013-01AC	Rear muffler clamp nut on connecting pipe/diesel particulate filter	Nm	35
BA49.10-P-1014-01AC	Nut, exhaust rubber mount holder to rear axle	Nm	23
BA49.10-P-1015-01AC	Screw/bolt, exhaust rubber mount holder to frame floor assembly/rear axle carrier	Nm	20
BA49.10-P-1016-01AC	Screw/bolt, cross connection left rear to right rear	Nm	20
BA49.10-P-1019-01AC	Screw/bolt, exhaust pipe to turbocharger	Nm	20
BA49.10-P-1020-01AC	Nut, exhaust pipe clamp to catalytic converter pipe or exhaust pipe	Nm	15
BA49.10-P-1021-01AC	Nut, catalytic pipe clamp or exhaust pipe to catalytic converter	Nm	15
BA49.10-P-1022-01AC	Clamp nut/screw between catalytic converter/ connecting pipe/diesel particulate filter	Nm	35
BA49.10-P-1023-01AC	Bolt/nut, catalytic converter hose clamp to diesel particulate filter	Nm	17
BA49.10-P-1027-01AC	Bolt/nut, bracket of diesel particulate filter to lower diesel particulate filter	Nm	20
BA49.10-P-1029-01AC	Catalytic converter/diesel particle unit nut bolt/nut on crankcase	Nm	20
BA49.10-P-1033-01AC	Screw/bolt, bracket to transmission	Nm	39
BA49.10-P-1034-01AC	Screw/bolt connecting catalytic converter clamp to exhaust gas turbocharger	Nm	18

Nm Exhaust system

Number	Designation			Engines 642, 651 in model 207
BA49.10-P-1002-01AE	Screw/bolt connecting catalytic converter to turbocharger		Nm	20
BA49.10-P-1003-01AE	Screw/bolt, diesel particulate filter clamp to turbocharger		Nm	18
BA49.10-P-1004-01AE	Nut attaching diesel particulate filter above		Nm	20
BA49.10-P-1005-01AE	Nut, catalytic converter clamp to diesel particulate filter		Nm	15
BA49.10-P-1006-01AE	Screw/bolt, upper diesel particulate filter bracket to diesel particulate filter/cylinder crankcase		Nm	20
BA49.10-P-1008-01AE	Screw/bolt, diesel particulate filter bracket to oil pan		Nm	20
BA49.10-P-1009-01AE	Bolt/nut, bracket of diesel particulate filter to lower diesel particulate filter	-	Nm	20
BA49.10-P-1011-01AE	Screw/bolt, bracket to transmission		Nm	39
BA49.10-P-1020-01AE	Screw/bolt, connecting pipe clamp to diesel particulate filter		Nm	35
BA49.10-P-1023-01AE	Screw/bolt, exhaust bracket to transmission		Nm	20
BA49.10-P-1024-01AE	Screw/bolt/nut, exhaust bracket to exhaust		Nm	20
BA49.10-P-1025-01AE	Screw/bolt, exhaust system to main floor panel	M8	Nm	20
		M10	Nm	50
BA49.10-P-1026-01AE	Nut, suspension ring to connecting pipe	,	Nm	20
BA49.10-P-1031-01AE	Nut, rear muffler clamp to connecting pipe		Nm	35
BA49.10-P-1035-01AE	Screw/bolt, cross connection left rear to right rear		Nm	20
BA49.10-P-1036-01AE	Screw/bolt, exhaust rubber mount holder to frame floor assembly/rear axle carrier		Nm	20

Nm Frame floor assembly

Number	Designation		Model 172
BA61.10-P-1005-01A	Self-locking bolt, rear diagonal strut to frame floor	Nm	60
BA61.10-P-1006-01A	Self-locking bolt, front diagonal strut to frame floor or front axle carrier	Nm	60
BA61.10-P-1007-01A	Collar bolt connecting front reinforcement brace to frame floor	Nm	20

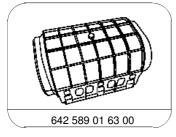
BA61.10-P-1008-01A	Collar bolt, rear reinforcement bridge to frame floor Nm	20

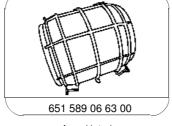
Nm Frame floor assembly

Number	Designation		Model 207.4
BA61.10-P-1007-01H	Screw/bolt, rear diagonal strut on spare wheel well	Nm	80
BA61.10-P-1008-01H	Screw/bolt, rear diagonal strut on longitudinal member	Nm	80
BA61.10-P-1009-01H	Screw/bolt, rear diagonal strut to bracket	Nm	17

Repair materials

Number	Designation	Order number
BR00.45-Z-1002-06A	Antifriction paste, rubber parts 2.5 kg, DB supply specification 6867.00	A 000 989 01 60





Assembly tool

Assembly tool