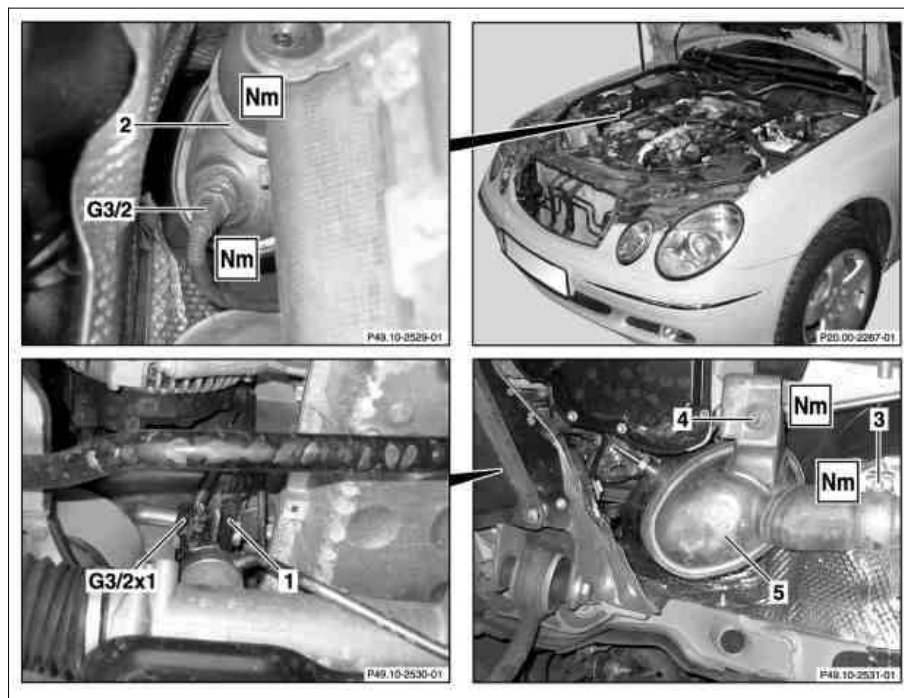


ENGINE 642 in MODEL 211










- 1 Electrical connector
- 2 Hose clamp
- 3 Hose clamp
- 4 Nut
- 5 Catalytic converter

G3/2 O2 sensor upstream of TWC
G3/2x1 Connector for O2 sensor upstream of TWC



P49.10-2570-06

☒ ☒	Remove/install	Align vehicle between columns of lifting platform and position four support plates at lifting platform support points specified by vehicle manufacturer.	AS00.00-Z-0010-01A
	Risk of death caused by vehicle slipping or toppling off the lifting platform.		
	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 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 an engine as it is running	Secure vehicle to prevent it from moving by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
ⓘ	Notes on self-locking nuts and bolts	All models	AH00.00-N-0001-01A
1	Remove engine trim panel		AR01.10-P-2405TI
2	Remove right air filter housing		AR09.10-P-1150TI
3	Remove hose clamp (2) between catalytic converter (5) and primary catalytic converter	i Installation: Check hose clamp (2); replace if necessary. Nm	*BA49.10-P-1006-01V
4	Raise vehicle		AR00.60-P-1000T
5	Remove bottom part of noise encapsulation		AR94.30-P-5300T
6	Detach connector for O2 sensor upstream TWC (G3/2x1)	i Remove connector O2 of sensor upstream TWC (G3/2x1) from bracket.	
7	Expose electrical line of O2 sensor upstream TWC (G3/2)	i Installation: Install new cable ties.	
8	Disconnect electrical connector (1) at temperature sensor of catalytic converter (5)	i Remove electrical connector (1) of temperature sensor of catalytic converter (5) from bracket.	
9.1	Release hose clamp (3) between catalytic converter (5) and exhaust pipe	Except vehicles with particulate filter, code 474 i Installation: Check hose clamp (3); replace if necessary. Nm	*BA49.10-P-1006-01V
9.2	Release hose clamp (3) between catalytic converter (5) and diesel particulate filter	Vehicles with particulate filter code 474 i Installation: Check hose clamp (3); replace if necessary. Nm	*BA49.10-P-1007-01V
10	Unscrew nuts (4) on catalytic converter (5) bracket	i Installation: Replace nut (4). Nm	*BA49.10-P-1001-01V
11	Remove three-way catalytic converter (5)		

	Notes on disposing of catalytic converters	all	OS49.10-P-1000-01A
12.1	Remove O2 sensor upstream of TWC (G3/2)	 Only when replacing the catalytic converter (5).  Installation: Coat thread of O2 sensor upstream of TWC (G3/2) with heat-resistant lubricant.  Paste	*BA07.04-P-1003-01G *BR00.45-Z-1005-06A
13.1	Remove temperature sensor of catalytic converter (5)	 Only when replacing the catalytic converter (5).  Installation: coat thread of temperature sensor of catalytic converter (5) with heat resistant lubricant.  Paste	*BA07.04-P-1001-01G *BR00.45-Z-1005-06A
14	Install in the reverse order		
	Checking		
15	Inspect installation position and clearance of exhaust system	 The exhaust system must be mounted free of tension; align the exhaust system if required.	
16	Check leaktightness of exhaust system when engine is running		

Sensors

Number	Designation		Engine 642 without particle filter	Engine 642 with particle filter
BA07.04-P-1001-01G	Temperature sensor to catalytic converter	Nm	45	45
BA07.04-P-1003-01G	O2 sensor to catalytic converter	Nm	50	50

Exhaust system

Number	Designation		Engine 642 in model 211, 219
BA49.10-P-1001-01V	Nut connecting front exhaust system to bracket	Nm	20
BA49.10-P-1006-01V	Bolt connecting primary catalytic converter hose clamp to catalytic converter	Nm	17
BA49.10-P-1007-01V	Bolt, catalytic converter hose clamp to diesel particulate filter or pipe connection	Nm	17

Repair materials

Number	Designation	Order number
BR00.45-Z-1005-06A	Paste, hot lubrication 1 kg, DB supply specification 6879.20	A 000 989 76 51