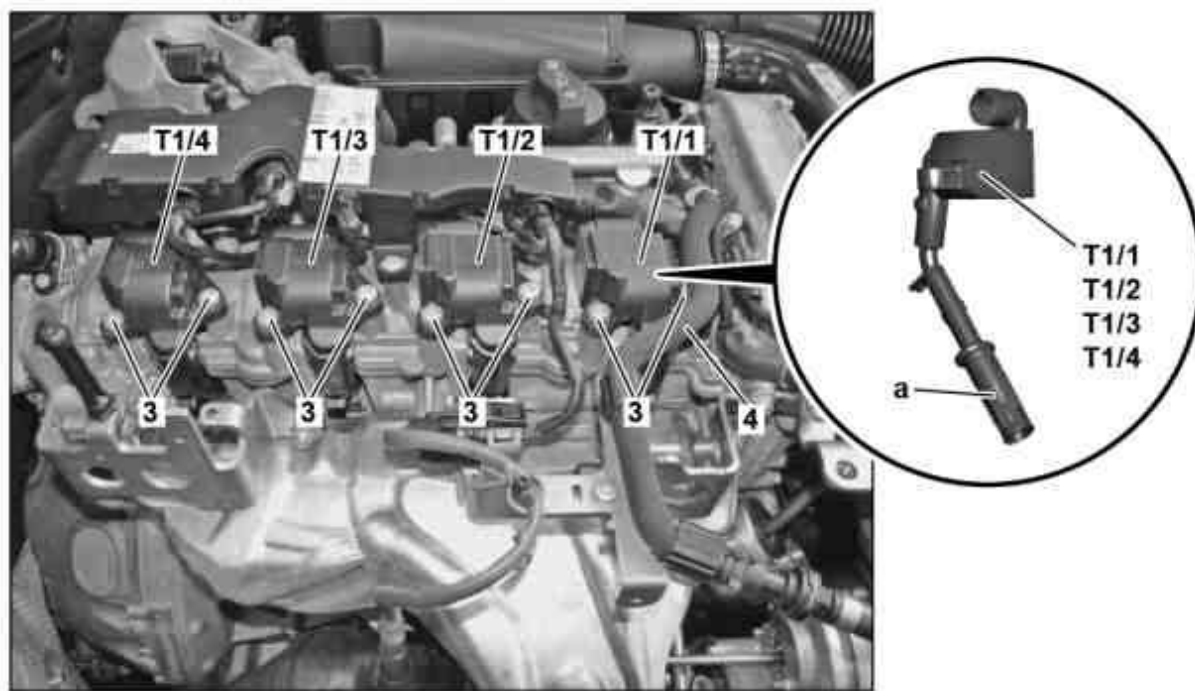






AR15.12-P-2003MRA	Remove/install ignition coils	28.07.2017
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Engine	274.9 in model 205
Engine	274.9 in model 253







3	Bolts
4	Coolant vent line
a	Spark plug connector
T1/1	Cylinder 1 ignition coil
T1/2	Cylinder 2 ignition coil
T1/3	Cylinder 3 ignition coil
T1/4	Cylinder 4 ignition coil

P15.12-2227-05



<p> Dangerseverity=D</p>	<p>Risk of death caused by contact with parts conducting high voltages.</p>	<p>Do not touch parts which conduct high voltages. People who have electronic implants (e.g. cardiac pacemakers) may not perform any work on the ignition system.</p>	<p> Risk of death caused by contact with parts conducting high voltages.</p>
<p> Warningseverity=W</p>	<p>Risk of injury. Skin or eye injuries may result when handling hot or glowing objects.</p>	<p>Wear protective gloves, protective clothing and</p>	<p> Risk of injury. Skin or eye injuries may result</p>

		safety glasses, if necessary.	when handling hot or glowing objects.
Topical noteseverity=N	Information on preventing damage to electronic components due to electrostatic discharge		■ Information on preventing damage to electronic components due to electrostatic discharge
Topical noteseverity=N	Notes on avoiding damage through contamination and foreign objects		■ Notes on avoiding damage through contamination and foreign objects
Topical noteseverity=N	Notes on avoiding damage to ignition system		■ Notes on avoiding damage to ignition system
	Remove/install		
1	Switch off ignition and store transmitter key outside of transmission range (min. 2 m)		
2	Remove upper engine cover		
3	Unclip coolant vent line (4) from bracket		
4	Remove screws (3)	 Screw/bolt, ignition coil to cylinder head cover	*BA15.10-P-1001-04A
5	Release and disconnect electrical connectors of ignition coils (T1/1, T1/2, T1/3 and T1/4)		
6	Pull ignition coils (T1/1, T1/2, T1/3 and T1/4) together with spark plug connectors (a) up and off and take out	 Installation: To reduce the force required for connection and disconnection, apply the spark plug connector grease prior to installing the spark plug connector (a). Otherwise the spark plug connector will be damaged during renewed removal.	
		 Installation: Fill approx. 1 g of spark plug connector grease into spark plug connector (a).	
		Spark plug connector grease	*BR00.45-Z-1102-06A
7	Check ignition coils (T1/1, T1/2, T1/3 and T1/4) and spark plug	In case of a complaint	

	connectors (a) for damage		
		↓	
		Replace corresponding components.	
8	Install in the reverse order		
	Check		
9	Connect diagnostic system; read out fault memory	Only if required.	
a			 Connect STAR DIAGNOSIS and read out fault memory
 Warningseverity=W	Risk of burn injuries, suffocation and poisoning when working on the exhaust system and the components connected to it. Risk of suffocation and risk of poisoning caused by inhalation of gaseous and solid components of the exhaust. Risk of poisoning caused by skin contact with solid components of the exhaust.	Wear protective clothing, safety glasses and respiratory protection. Use the extraction system. Move people out of the hazard area.	 Risk of burn injuries, suffocation and poisoning when working on the exhaust system and the components connected to it. Risk of suffocation and risk of poisoning caused by inhalation of gaseous and solid components of the exhaust.
 Warningseverity=W	Risk of accident from vehicle starting off by 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.	Secure vehicle to prevent it from starting off by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	 Risk of accident from vehicle starting off by 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.
10	Conduct engine test run while checking for proper operation of the engine		

 Ignition coil

Number	Designation		Engine 274
BA15.10-P-1001-04A	Screw/bolt, ignition coil to cylinder head cover	Nm	9

Repair materials

Number	Designation	Order number
BR00.45-Z-1102-06A	Spark plug connector grease	A 002 989 80 51