

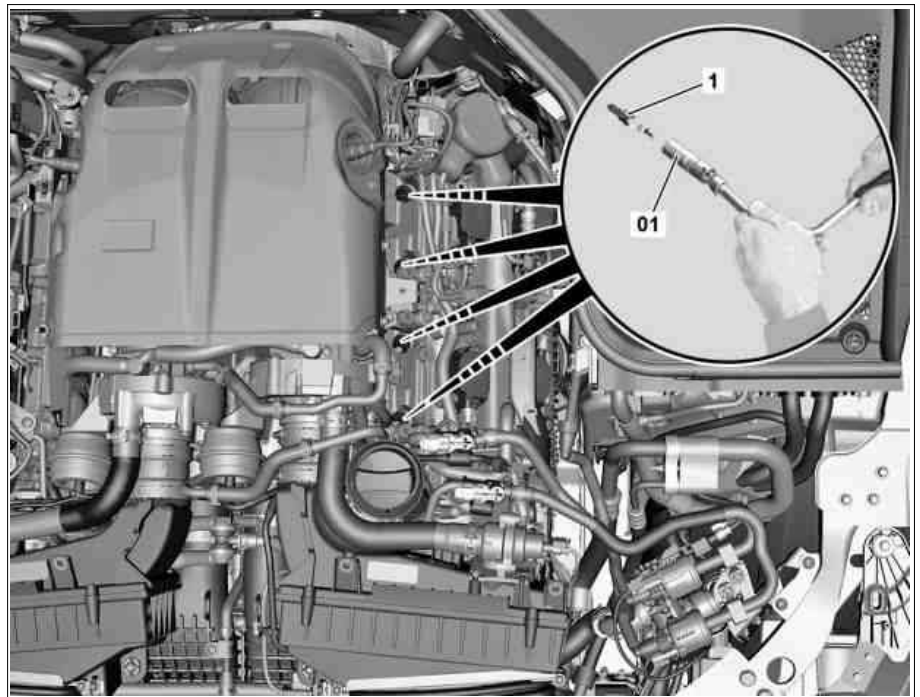
**Document title**      Replace spark plugs

**Document number**      ap1510p1580c

- Engine 176 in model 167, 217, 222
- Engine 176 in model 463
- Engine 177 in model 205, 213, 217, 222, 253, 290
- Engine 177 in model 463

Shown on engine 177.980 in model 213.088, left cylinder bank

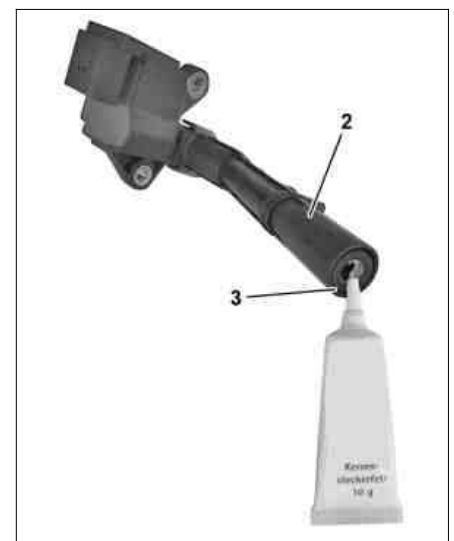
- 01 Spark plug wrench
- 1 Spark plug



P15.10-2612-06

Shown on ignition coil in engine 157.980

- 2 Spark plug connector
- 3 Sealing lip



P15.10-2579-02

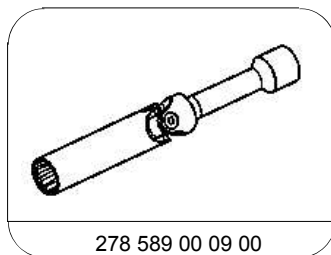
Warning	<b>Risk of injury.</b> Skin or eye injuries may result when handling hot or glowing objects.	Wear protective gloves, protective clothing and safety glasses, if necessary.	<a href="#">AS00.00-Z-0002-01A</a>
	<b>Risk of death</b> caused by contact with parts conducting high voltages.	Do not touch parts which conduct high voltages. People who have electronic implants (e.g. cardiac pacemakers) may not perform any work on the ignition system.	<a href="#">AS15.10-Z-0001-01A</a>
	Information on avoiding damage when replacing spark plugs		<a href="#">AH15.10-P-0002-02A</a>
	<b>Remove</b>		
1 AR AR	Remove ignition coils.	Engine 176 in model 167, ignition coils of left cylinder bank Engine 176 in model 167, ignition coils of right cylinder bank	AR15.12-P-2008MNO AR15.12-P-2009MNO

AR		Engine 176 in model 217, 222, ignition coils of left cylinder bank	AR15.12-P-2008MNL
AR		Engine 176 in model 217, 222, ignition coils of right cylinder bank	AR15.12-P-2009MNL
AR		Engine 176 in model 463 up to model year 2019 Engine 177 in model 205	AR15.12-P-2003MNA
AR		Engine 176 in model 463 as of model year 2019, ignition coils of left cylinder bank	AR15.12-P-2008XGA
AR		Engine 176 in model 463 as of model year 2019, ignition coils of right cylinder bank	AR15.12-P-2009XGA
AR		Engine 177 in model 213, ignition coils of left cylinder bank	AR15.12-P-2008MNE
AR		Engine 177 in model 213, ignition coils of right cylinder bank	AR15.12-P-2009MNE
AR		Engine 177 in model 217, 222 ignition coils of left cylinder bank	AR15.12-P-2008MNM
AR		Engine 177 in model 217, 222 ignition coils of right cylinder bank	AR15.12-P-2009MNM
AR		Engine 177 in model 253, ignition coils for left cylinder bank	AR15.12-P-2008MNG
AR		Engine 177 in model 253, ignition coils for right cylinder bank	AR15.12-P-2009MNG
AR		Engine 177 in model 290, ignition coils of left cylinder bank	AR15.12-P-2008MNI
AR		Engine 177 in model 290, ignition coils of right cylinder bank	AR15.12-P-2009MNI
AR		Engine 177 in model 463 as of model year 2019, ignition coils of left cylinder bank	AR15.12-P-2008XGC
AR		Engine 177 in model 463 as of model year 2019, ignition coils of right cylinder bank	AR15.12-P-2009XGC
	<b>Clean</b>		
2	Use compressed air to blow out any dirt residue in the spark-plug recesses.	Seal openings with lint-free rags. Damage can otherwise occur. Record plug	<a href="#">*129589009100</a>
	<b>Remove</b>		
3	Remove spark plugs (1) from cylinder heads using spark plug wrench (01).	Spark plug wrench	<a href="#">*278589000900</a>
	<b>Clean</b>		
4	Vacuum spark plug wells using vacuum cleaner attachment.	Remove metal insert at end of hose. Damage can otherwise occur. Adapter	<a href="#">*270589006800</a>
	<b>Install</b>		
5	Screw new spark plugs (1) into cylinder heads using spark plug wrench (01).	Spark plug to cylinder head Spark plug wrench	<a href="#">*BA15.10-P-1001-01H</a> <a href="#">*278589000900</a>
	<b>Check</b>		
6	Check the spark plug connectors (2), ignition coils and ignition lines for damage, deformation and crack formation.	If problems are determined,  ↓ rectify the problems. After obtaining special order.	
	<b>Install</b>		
7	Apply coating of spark plug connector grease to sealing lips (3) of spark plug connectors (2) before installation.	Spark plug connector grease	<a href="#">*BR00.45-Z-1102-06A</a>
8	Install ignition coils.	Engine 176 in model 167, ignition coils of left cylinder bank Engine 176 in model 167, ignition coils of right cylinder bank Engine 176 in model 217, 222, ignition coils of left cylinder bank Engine 176 in model 217, 222, ignition coils of right cylinder bank Engine 176 in model 463 up to model year 2019 Engine 177 in model 205 Engine 176 in model 463 as of model year 2019, ignition coils of left cylinder bank	AR15.12-P-2008MNO AR15.12-P-2009MNO AR15.12-P-2008MNL AR15.12-P-2009MNL AR15.12-P-2003MNA AR15.12-P-2008XGA

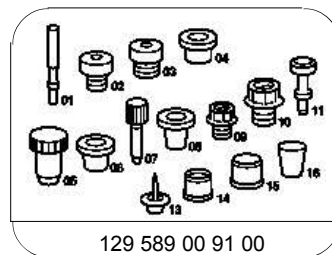
AR	Engine 176 in model 463 as of model year 2019, ignition coils of right cylinder bank	AR15.12-P-2009XGA
AR	Engine 177 in model 213, ignition coils of left cylinder bank	AR15.12-P-2008MNE
AR	Engine 177 in model 213, ignition coils of right cylinder bank	AR15.12-P-2009MNE
AR	Engine 177 in model 217, 222 ignition coils of left cylinder bank	AR15.12-P-2008MNM
AR	Engine 177 in model 217, 222 ignition coils of right cylinder bank	AR15.12-P-2009MNM
AR	Engine 177 in model 253, ignition coils for left cylinder bank	AR15.12-P-2008MNG
AR	Engine 177 in model 253, ignition coils for right cylinder bank	AR15.12-P-2009MNG
AR	Engine 177 in model 290, ignition coils of left cylinder bank	AR15.12-P-2008MNI
AR	Engine 177 in model 290, ignition coils of right cylinder bank	AR15.12-P-2009MNI
AR	Engine 177 in model 463 as of model year 2019, ignition coils of left cylinder bank	AR15.12-P-2008XGC
AR	Engine 177 in model 463 as of model year 2019, ignition coils of right cylinder bank	AR15.12-P-2009XGC

**Nm** Spark plugs

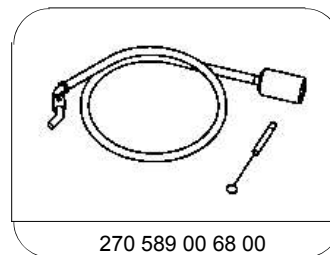
Number	Designation	Engine 176	Engine 177
BA15.10-P-1001-01H	Spark plug to cylinder head	Nm 22	22



Spark plug wrench



Record plug



Adapter

**Repair materials**

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