**Engine**  
274 in model 172, 204, 205, 207, 212, 213, 218, 253

Shown in model 204

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Spark plug wrench</td>
</tr>
<tr>
<td>1</td>
<td>Spark plug</td>
</tr>
</tbody>
</table>

Shown on ignition coil in engine 157.980

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Spark plug connector</td>
</tr>
<tr>
<td>3</td>
<td>Rubber lip</td>
</tr>
</tbody>
</table>

---

**Danger!**  
Risk of injury. Skin or eye injuries may result when handling hot or glowing objects.

Risk of death caused by contact with parts conducting high voltages.

Wear protective gloves, protective clothing and safety glasses, if necessary.

Do not touch parts which conduct high voltages. Persons who have electronic implants (e.g. cardiac pacemakers) may not perform any work on the ignition system.

**Danger!**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Information on avoiding damage when replacing spark plugs</td>
</tr>
</tbody>
</table>

**Preparatory activity**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Open engine hood and raise to vertical position</td>
</tr>
</tbody>
</table>

Model 172, 204, 205, 207, 212, 213, 218, 253

Model 204.3, 207, 212

Model 204.3, 207, 212 with code U60 (Active engine hood (pedestrian protection))

Moving the engine hood to the vertical position:
Detach left and right clamping levers at the upper left and right hinges.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>Remove ignition coils</td>
</tr>
</tbody>
</table>

Engine 274 in model 172

Engine 274 in model 204, 207

Engine 274.9 in model 205, 213, 253

Engine 274 in model 212, 218
### Clean

3. Blow out any dirt residue in the spark-plug recesses using compressed air
   - Record plug
   - Set of protective covers
   - *129589009100
   - *001589019100

### Remove

4. Remove spark plugs (1) using spark plug wrench (01) from cylinder head
   - Spark plug wrench
   - *278589000900

### Install

5. Screw new spark plugs (1) using spark plug wrench (01) into cylinder head
   - Spark plug to cylinder head
   - *BA15.10-P-1001-01C
   - Spark plug wrench
   - *278589000900

### Check

6. Check spark plug connector (2), ignition coils and ignition lines for damage, deformation and crack formation
   - If complaint present
   - Rectify problem subject to separate repair order.

### Install

7. Grease rubber lips (3) of spark plug connectors (2) using spark plug connector grease before installation
   - Spark plug connector grease
   - *BR00.45-Z-1102-06A

### AR

8. Install ignition coils
   - Engine 274 in model 172
   - Engine 274 in model 204, 207
   - Engine 274.9 in model 205, 213, 253
   - Engine 274 in model 212, 218
   - AR15.12-P-2003MRE
   - AR15.12-P-2003MR
   - AR15.12-P-2003MRA
   - AR15.12-P-2003MRS

### Finishing activity

9. Close engine hood
   - Model 172, 204, 205, 212, 213, 218, 253, 212 with code U60
   - Active engine hood (pedestrian protection)
   - Close engine hood:
   - Mount left and right clamping levers at the upper left and right hinges.
   - AR88.40-P-1000EW

---

### Spark plugs

<table>
<thead>
<tr>
<th>Number</th>
<th>Designation</th>
<th>Engine 274</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA15.10-P-1001-01C</td>
<td>Spark plug to cylinder head</td>
<td>Nm 23</td>
</tr>
</tbody>
</table>

---

### Repair materials

<table>
<thead>
<tr>
<th>Number</th>
<th>Designation</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>BR00.45-Z-1102-06A</td>
<td>Spark plug connector grease</td>
<td>A 002 989 80 51</td>
</tr>
</tbody>
</table>
AR15.12-P-2003MRA  Remove/install ignition coils  27.11.15

Engine 274.9 in model 205, 213, 253

3  Screw/bolt
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

Engine 274.9 in model 205, 213, 253 except code 494 (US version)

3  Remove screw/bolt (3)

4  Disconnect electrical connection on ignition coils (T1/1 to T1/4)
   The ignition coils (T1/1 to T1/4) and the spark plug connector (a) create a unit and can therefore only be removed and replaced together.

5  Detach ignition coils (T1/1 up to T1/4) with spark plug connectors (a) upwards and take out
   Installation: To reduce the force required for plugging/unplugging the spark plug connector grease must be applied before installation of the spark plug connector.
   The spark plug connectors will get damaged otherwise when they are removed again.
   Installation: Apply about 1 g of spark plug connector grease in the spark plug connector.
   Spark plug connector grease

6  Check ignition coils (T1/1 up to T1/4) and spark plug connectors (a) for damage and replace if necessary

7  Install in the reverse order

8  Read out fault memory using the diagnostic system and clear if necessary

<table>
<thead>
<tr>
<th>Number</th>
<th>Designation</th>
<th>Engine 274</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA15.10-P-1001-04A</td>
<td>Screw/bolt, ignition coil to cylinder head cover</td>
<td>Nm 9</td>
</tr>
</tbody>
</table>

© Daimler AG, 3/2/17, B/02/17, ar15.12-p-2003mra, Remove/Install ignition coils
Engine 274.9 in model 205, 213, 253
### Repair materials

<table>
<thead>
<tr>
<th>Number</th>
<th>Designation</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>BR00.45-Z-1102-06A</td>
<td>Spark plug connector grease</td>
<td>A 002 989 80 51</td>
</tr>
</tbody>
</table>

© Daimler AG, 3/2/17, B/02/17, art15.12-p-2003mra, Remove/Install ignition coils
Engine 274.9 in model 205, 213, 253
Engine 274 in model 205, 213, 218, 253
Engine 274 in model 212
with code 924 (Bivalent natural gas drive)

Shown on model 253

6 Engine cover

Shown on model 212

1 Bolts
2 Electrical connector
3 Clip
4 Air filter housing cover
5 Air filter element

Danger!

Risk of injury. Skin or eye injuries may result when handling hot or glowing objects. Wear protective gloves, protective clothing and safety glasses, if necessary. AS00.00-Z-0002-01A

Remove
1 Remove engine cover (6)
2 Release and disconnect electrical connection (2)
3 Release clamp (3) and detach air intake pipe from air filter housing cover (4)
4 Remove bolt (1) The bolts (1) remain in the air filter housing cover (4).
5 Remove air filter housing cover (4)
6 Remove air filter element (5)

Clean
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Clean inside of air filter housing and air filter housing cover (4)</td>
</tr>
<tr>
<td>8</td>
<td>Insert new air filter insert (5) into air filter housing</td>
</tr>
<tr>
<td>9</td>
<td>Position air filter housing cover (4) and fit air intake pipe onto air filter housing cover (4)</td>
</tr>
<tr>
<td></td>
<td>Check air filter housing cover (4) is correctly seated on air filter housing.</td>
</tr>
<tr>
<td>10</td>
<td>Liften bolts (1) of air filter housing cover (4)</td>
</tr>
<tr>
<td>11</td>
<td>Position and tighten clamp (3)</td>
</tr>
<tr>
<td>12</td>
<td>Plug in electrical connection (2) and lock into place</td>
</tr>
<tr>
<td>13</td>
<td>Install engine cover (6)</td>
</tr>
</tbody>
</table>
Model 213, 253

Shown on model 253

1. Right rear engine compartment paneling
2. Locks
4. Air duct segment

3. Dust filter

Remove

1. Release locks (2) and remove right rear engine compartment cover (1)
2. Unhook bracket (A, B) from air duct segment (4) and remove air duct segment (4)
3. Remove dust filter (3) from air duct segment (4)

Clean

4. Clean inside of air duct segment (4)

Install

5. Place new dust filter (3) into air duct segment (4)
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Install air duct segment (4) and hook bracket (A, B) into place</td>
</tr>
<tr>
<td>7</td>
<td>Install right rear engine compartment cover (1) and close locks (2)</td>
</tr>
</tbody>
</table>