**DANGER**
Airbag unit can trigger unintentionally!
Airbag unit is a pyrotechnic component that can lead to death on improper handling!
Only specially trained employees may carry out any work on the airbag system.
Disconnect the battery.
Always store airbag unit with the padded side pointing upward.
Always transport airbag unit in appropriate packaging.
Never leave airbag unit unattended, but lock safely in an appropriate cabinet.
Do not open or repair airbag unit.
Only install airbag unit in undamaged condition.
Do not perform any measurements on the airbag unit using a test lamp or multimeter.
Wear protective gloves and safety goggles.
No person may stay inside the vehicle when re-connecting the battery.

**NOTE**
Ensure proper cleanliness when working on the servo-steering.
Steering column adjustment must remain locked during steering column removal.
Generally replace self-locking as well as corroded screws and nuts.
Repair work of any kind on the electromechanical steering column is not permissible, it must basically be completely replaced.
Observe disposal regulations!

Do not use oils, fats, chemicals and cleaners not approved by the manufacturer on airbag units.
The illustrations of these installation instructions are exemplary and are only intended for better understanding.
Required special tools

- Socket and bit set
  OE (MKM-604-D)

- Intermediate steering shaft fixing tool
  OE (KM-6181)

Required torques

**Tightening torques**
Self-locking screws and nuts must always be replaced.

<table>
<thead>
<tr>
<th>Description</th>
<th>Reference</th>
<th>Torque/Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power steering motor screw(s)</td>
<td>(see figure 6)</td>
<td>9 Nm</td>
</tr>
<tr>
<td>Steering column screw(s) (7)</td>
<td>(see figure 6)</td>
<td>Use new screw(s) and nut(s).</td>
</tr>
<tr>
<td>Intermediate steering shaft screw(s) (3)</td>
<td>(see figure 7)</td>
<td>Use screw-locking compound.</td>
</tr>
<tr>
<td>Intermediate steering shaft screw(s) (4)</td>
<td>(see figure 7)</td>
<td>Use screw-locking compound.</td>
</tr>
<tr>
<td>Driver airbag screw(s)</td>
<td></td>
<td>8 Nm</td>
</tr>
<tr>
<td>Steering wheel screw</td>
<td></td>
<td>Use new screws with the</td>
</tr>
<tr>
<td></td>
<td></td>
<td>screw-locking compound.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 Nm</td>
</tr>
</tbody>
</table>
**Remove:**

Move steering wheel to the centre position and let steering lock engage.

Disconnect battery (negative terminal).

Keep waiting time of min. 1 min.

Remove driver's airbag.

**Required special tools**
- Socket and bit set OE (MKM-604-D)
- Bit socket OE (MKM-604-29)

Demount steering wheel.

Remove height adjustment handle from steering wheel.

Unlock steering column shroud upper engagement pins. (1)(2)

Use mounting wedge(s). (3)

Remove upper steering column shroud. (1)

Unscrew and remove steering column shroud(s) lower screw(s). (5)

Remove lower steering column shroud. (6) (see figure 1)

Loosen contact unit electric plug connection. (1)

Remove contact unit. (2)(3) (see figure 2)
Perform following workflow on both sides.
Unlock steering column switch engagement pin using suitable tool. (1)
Remove steering column switch from steering column module. (2) (see figure 3)

Disconnect electric plug connection(s). (1)(2) (see figure 4)
Remove steering column module.
Remove dashboard covering.
Unscrew and remove intermediate steering shaft screw. (1)
Loosen intermediate steering shaft from steering spindle. (2)
(3) (see figure 5)
Disconnect power steering motor electric plug connection(s). (1)
Remove cable tie.
Unscrew and remove power steering motor screw(s). (2)
Remove power steering motor. (3)
Remove driver's side footwell air duct. (4)
Unscrew and remove brake pedal hold-down device screw(s). (5)
Loosen brake pedal hold-down device and push aside. (6)
Unscrew the steering column screw(s). (7)
Remove the steering column. (8)
(see figure 6)

Convert following components when replacing the steering column:
- Electric power steering control unit
- Immobilizer control unit
- Ignition starter switch
- Ignition lock

Figure 6

1 Power steering motor electric plug connection(s) 2 Power steering motor screw(s)
3 Electric motor for power steering 4 Driver's side footwell air duct
5 Brake pedal hold-down device screw(s) 6 Brake pedal hold-down device screw(s)
7 Steering column screw(s) 8 Steering column
Install:

Set steering wheel to straight-ahead position.
Installation in reverse order of removal.

Screw in but do not yet tighten steering column screw(s). (7)

Loosen steering column height adjustment.

Tighten steering column screw(s) in following tightening order.
(7)
Tighten screws in the order upper right, upper left, lower right, lower left.
(see figure 6)

Recut thread on upper intermediate steering shaft universal joint and clean. (1)
Insert intermediate steering shaft fixing tool. (1)(2)

Required special tools
Intermediate steering shaft fixing tool OE (KM-6181)
(see figure 7)

Markings must flush when installing the steering spindle and intermediate steering shaft. (4)
(see figure 5)

Use new screw(s) and nut(s).
Tighten intermediate steering shaft screw(s) and nut(s). (3)(4)
Remove intermediate steering shaft fixing tool. (2)
(see figure 7)
Continue assembly in reverse order of removal.

Check before installation whether the slip ring is in center position.
- The slip ring can be installed when the slip ring is in center position and the markings flush. (1)
- Put the slip ring into center position as follows if the slip ring markings do not flush. (1)

Press and keep slip ring retaining device depressed. (2)
Turn slip ring internal part counterclockwise up to first resistance. (3)
Turn back slip ring internal part clockwise by 2,5 turns.
Keep on turning slip ring internal part until markings flush. (1)
(3)
(see figure 8)

Continue assembly in reverse order of removal.

Code radio and reprogram vehicle settings if required.
Check electrical system for function.

Check driving position to the front, adjust if needed.

Teach the steering angle sensor.

Switch on ignition.
Turn the steering wheel up to the right and left stop.
Power steering indicator light goes out.

Steering-angle sensor needs to be taught-in using a suitable diagnostic unit if power steering indicator light does not go out.
Note position of EOBD connection.

Figure 8

1 Mark(s) 2 Slip ring internal part retaining device
3 Slip ring internal part