

⚠ WARNING

Pyrotechnic components.

Danger! Immobilization period-threatening injuries!

- All work on pyrotechnic parts may be carried out by technically experienced and appropriately trained personnel only.
- Replace any damaged part or ones that have been dropped.
- For additional information see: 72 00 Safety regulations on handling components with gas generators.

i TECHNICAL INFORMATION

Wheel alignment is not necessary after removal, installation or replacement.

i TECHNICAL INFORMATION

The steering wheel and horn plate must be replaced if the airbag unit has been deployed.

Check all steering wheel attachments (such as switches, cover, shift paddles, wiring harness) for damage and renew if necessary!

For additional information see: 72 12 ... Procedure after airbag deployment as result of an accident

Preliminary work

Deactivate vehicle-specific high-voltage or low-voltage vehicle electrical system

Further information is available.



RISK OF DAMAGE



Damage to the high-voltage battery due to the failure to deactivate the high-voltage system before disconnecting the vehicle battery via the high-voltage service disconnect in BEV and PHEV vehicles.

Damage to high-voltage system!

- **Before disconnecting the vehicle battery, it is essential** to deactivate the high-voltage system via the high-voltage service disconnect in BEV and PHEV vehicles.
- All work on the high-voltage system may only be carried out by specially trained and technically experienced personnel.
- For additional information see:
61 00 ... Safety instructions on handling hybrid cars
- For additional information see:
61 25 ... Notes on repair of high-voltage battery unit



i TECHNICAL INFORMATION

Follow the vehicle-specific instructions described in the **additional information**.

- Deactivate the vehicle electrical system as described in the additional information.

Removing airbag unit (M Sport steering wheel)

⚠ WARNING

Airbag unit.

Danger! Immobilization period-threatening injuries!

- Before working on the airbag, disconnect the negative battery cable from the battery.
- Airbag unit may only be set down with the cushion (airbag itself) facing upwards.
- For additional information see: 72 00 ... Safety regulations on handling airbag system components/gas generators



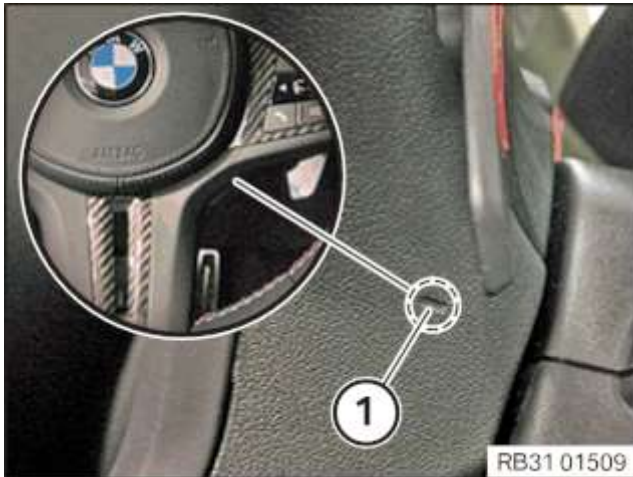
RISK OF DAMAGE

Damage to the steering wheel.

Incorrect handling of the tool may damage the steering wheel.

- Make sure the position (angle and inclination) of the tool is correct.

- When unlocking, do not lever, but press in the Torx screwdriver only towards the center of the steering wheel.



NOTE

Perform the steps on the left and right side.

- Localize the mark (1) for unlocking the airbag unit on the steering wheel by feeling.



NOTE

Perform the steps on the left and right side.

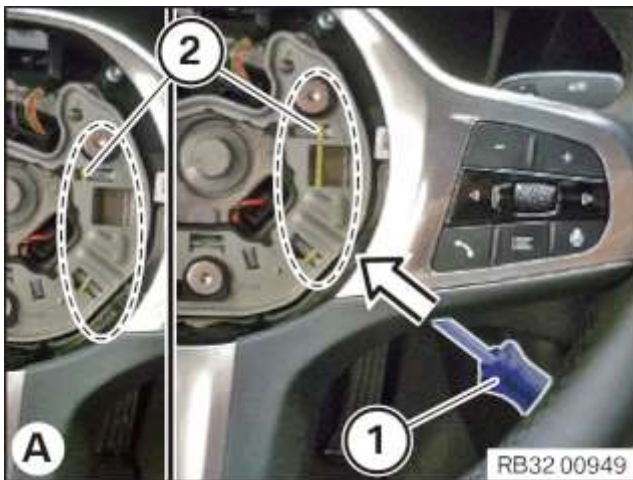
- Carefully cut the mark (1) with a knife (2) to approx. 4 mm length.



i TECHNICAL INFORMATION

Different variants may be installed depending on the vehicle equipment.

- For vehicles with shift paddles (2) from CFRP, use a Torx socket T15 (1) for unlocking the airbag unit.



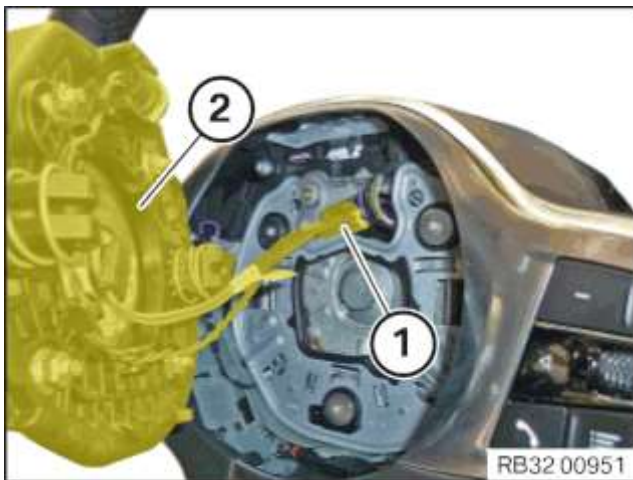
📄 NOTE

To provide a better overview: Schematic diagram with airbag unit removed.

- Insert the Torx socket T15 (1) to the top at an angle until a springy resistance can be felt.
- Press the Torx socket T15 (1) straight in arrow direction to the center of the steering wheel to unlock the wire spring (2) or the airbag unit (A).



- Press the wire spring in with the Torx socket T15 (1) in arrow direction and lift the airbag unit (2) to the unlocked side.
- Repeat the process on the left side and carefully release the airbag unit (2) from the steering wheel.



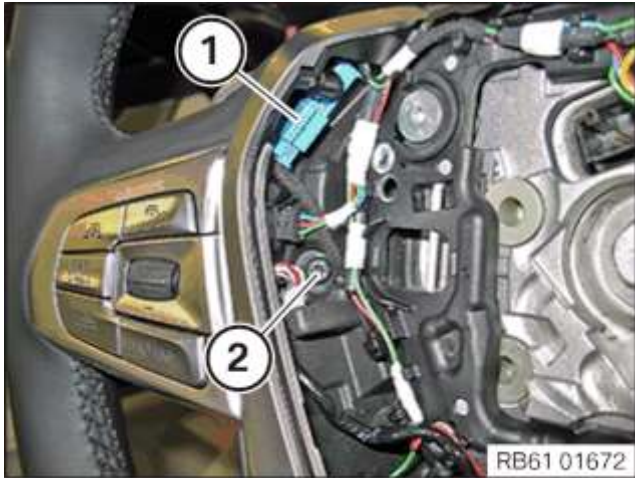
- Unlock plug connection (1) and disconnect.
- Remove the airbag unit (2).

Removing shift paddle for automatic transmission

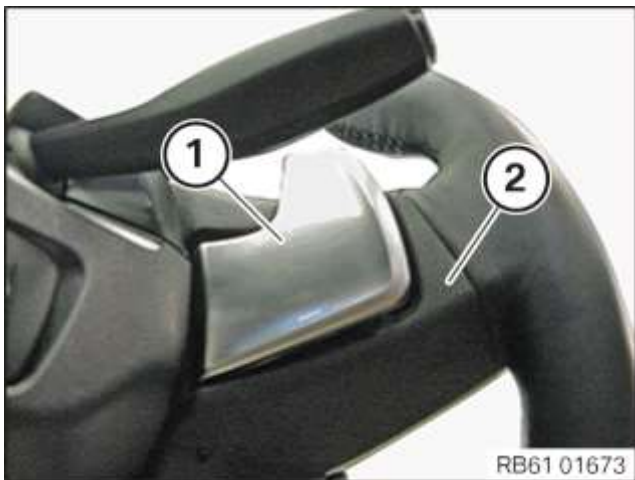


NOTE

Description is for left component only. Procedure on the right side is identical.

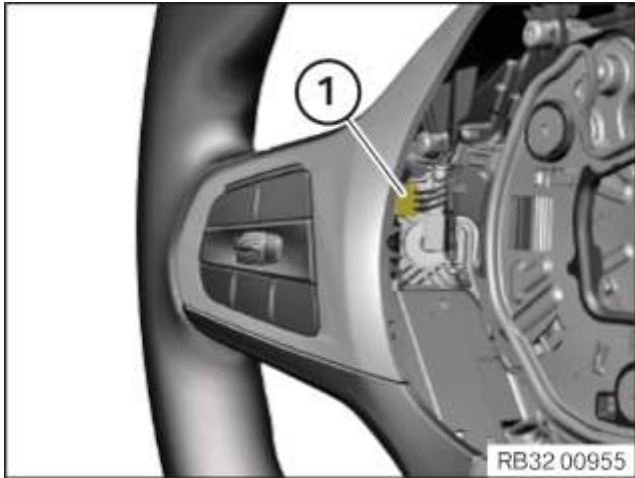


- Disconnect connector (1) and remove cable to shift paddle.
- Loosen screw (2).



- Remove shift paddle (1) from steering wheel (2) and remove associated access line.

Removing the cover for M Sport steering wheel



- Unlock plug connection (1) and disconnect.

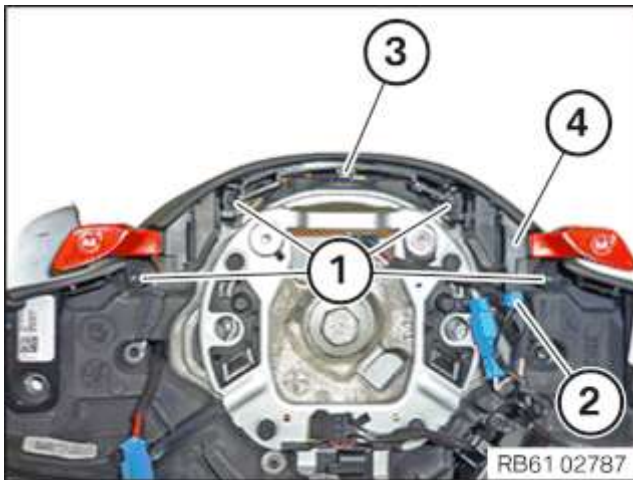


- Unscrew the screws (1) on the back of the steering wheel.



- Carefully release the cover (1) from the detents (Pfeile).
- Remove the cover (1).

Remove the SPORT button



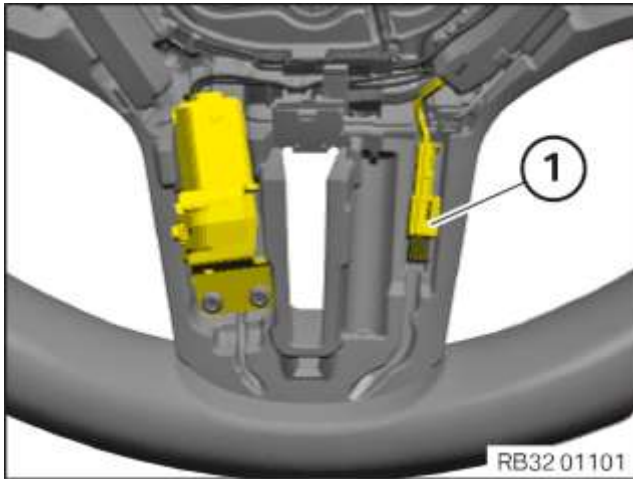
- Loosen screws (1).
- Disconnect the connector (2) and feed out the cable (3).
- Remove the SPORT button (4) on both sides.

Disconnecting the plug connection for steering wheel heating



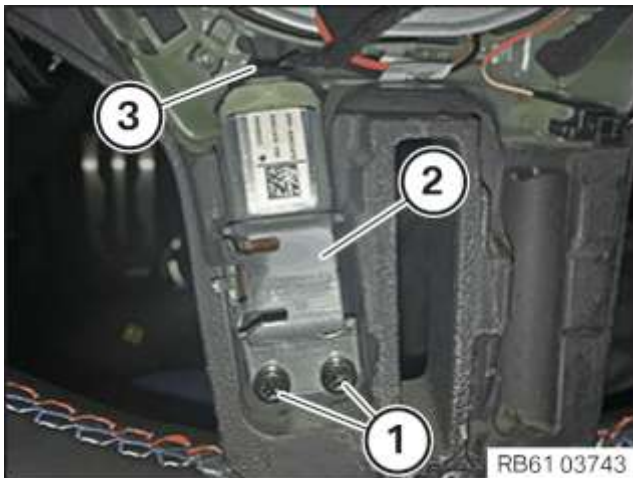
NOTE

The following step(s) must be performed if the specified component(s) is/are installed.



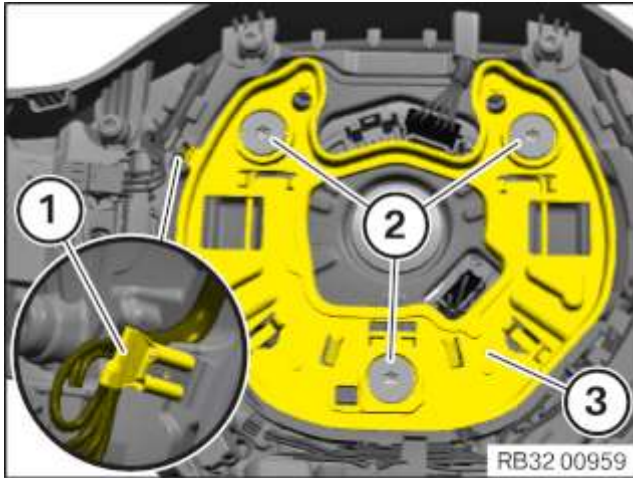
- Unlock plug connection (1) and disconnect.

Removing the vibration actuator (M Sport steering wheel)



- Loosen screws (1).
- Unlock plug connection (3) and disconnect.
- Remove the vibration actuator (2).

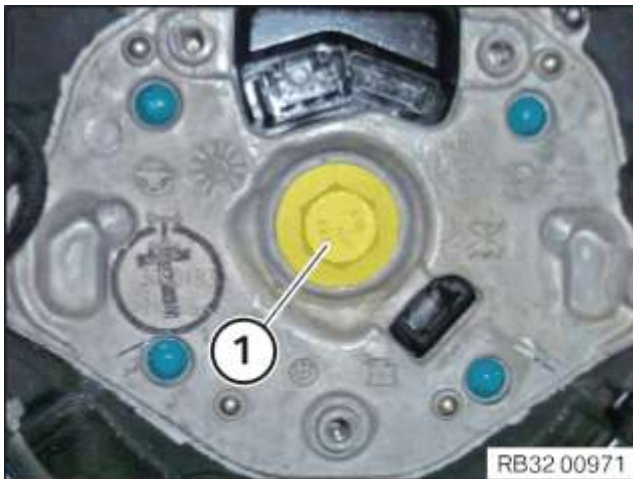
Removing the impact plate (M Sport steering wheel)



- Unplug ground cable (1).
- Loosen screws (2).
- Remove the impact plate (3).

Main Works

Removing the steering wheel/M Sport steering wheel



i TECHNICAL INFORMATION

When releasing the screw, have a support person counter-hold the steering wheel in order to reduce torque on the steering column.

- Shift the steering wheel and wheels to the straight-ahead position.
- Loosen screw (1).
- Pull down the steering wheel and remove.

For triggered airbag unit: Replacing the M Sport steering wheel and the horn plate



- Renew M Sport steering wheel (1) and horn plate (2).

Parts: M Sport steering wheel, horn plate

Greasing the SZL



i TECHNICAL INFORMATION

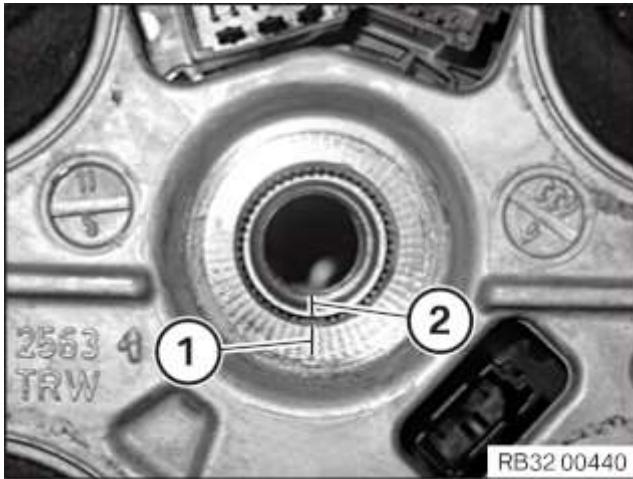
In order to avoid noises, when replacing the steering wheel, SZL must be greased.

- Lightly grease the steering column switch cluster on the mount for steering wheel driver (1).

Consumable

Lubricating grease Renolit CX-CVM	100 g,	83192286016
1	Bag	

Installing the steering wheel/M Sport steering wheel



- Align mark (1) on steering wheel to mark (2) on steering column.
- Position the steering wheel.

Check

- Possibly, a microencapsulated screw (1) has been installed.
Check the screw connection.



Result

- » The screw (1) is micro-encapsulated.

Measure

- Clean thread in steering column.

Renew the screw (1).

Parts: Screw



- Tighten down screw (1).

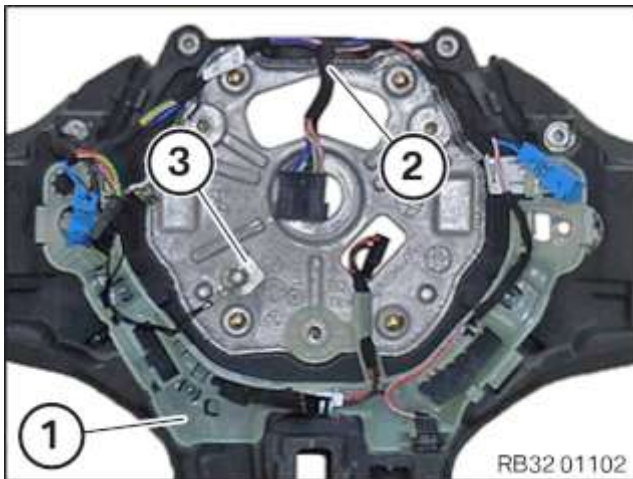
Tightening torques

Steering wheel to steering column

M14	tightening torque 62.5Nm
Only with micro-encapsulated screw: Renew screw.	

Follow-up works

Installing the wiring harness (M Sport steering wheel)



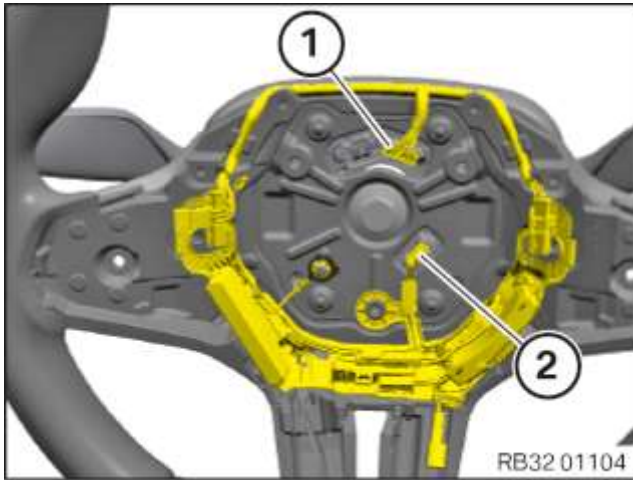
- Install the cable duct (1) and wiring harness (2) (see illustration).

Parts: Wiring harness

- Attach the eyelet of the ground cable (3) to the steering wheel.

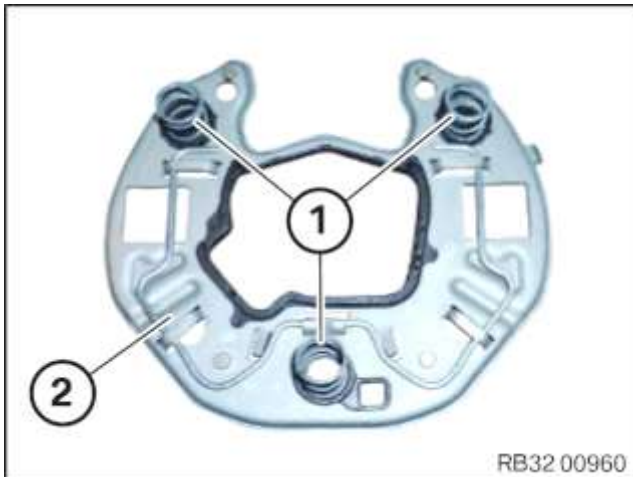
Note

The loop of grounding cable (wiring harness) cannot be reused.

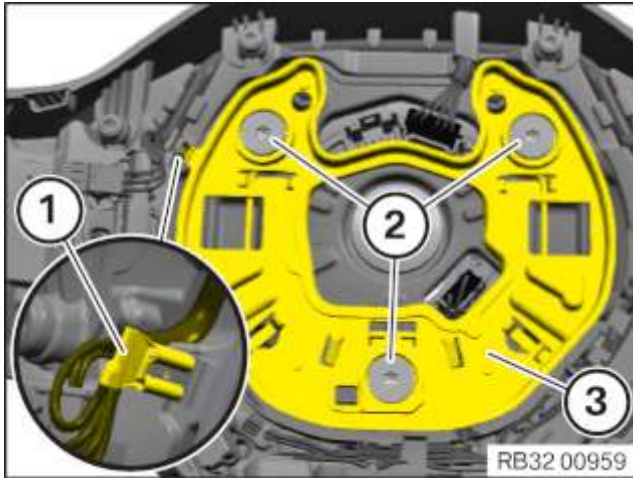


- Connect and lock the connector (1) and (2).

Installing the impact plate (M Sport steering wheel)



- Check the position of the springs (1) on the impact plate (2), correct if applicable.



- Position the impact plate (3).
- Tighten down screws (2).

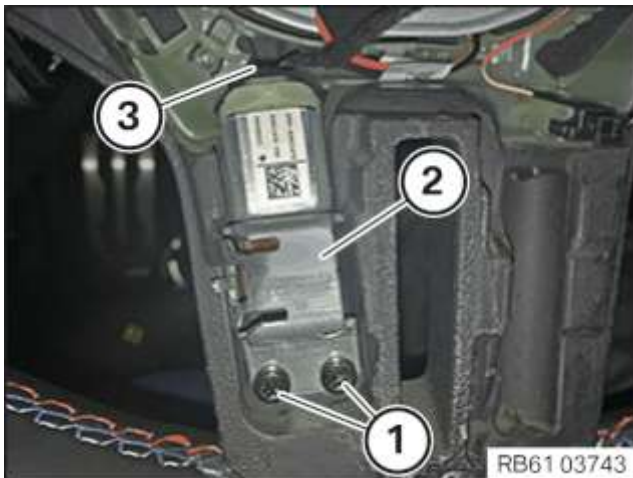
Tightening torques

Impact plate on steering wheel

Screw	Tightening torque 6.5Nm
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- Connect the grounding cable (1).

Installing the vibration actuator (M Sport steering wheel)



- Attach the connector (3) to the vibration actuator (2) and lock it.
- Position the vibration actuator (2).
- Tighten down screws (1).

Tightening torques

Balance weight/vibration actuator on steering wheel

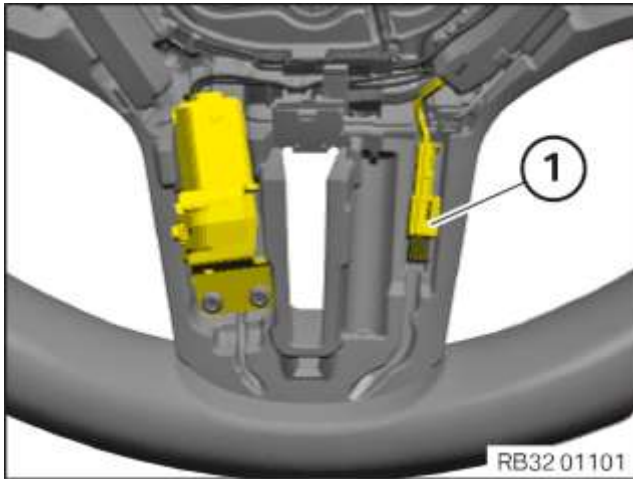
Screw	tightening torque 2.2Nm
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Connecting the connector for the steering wheel heating



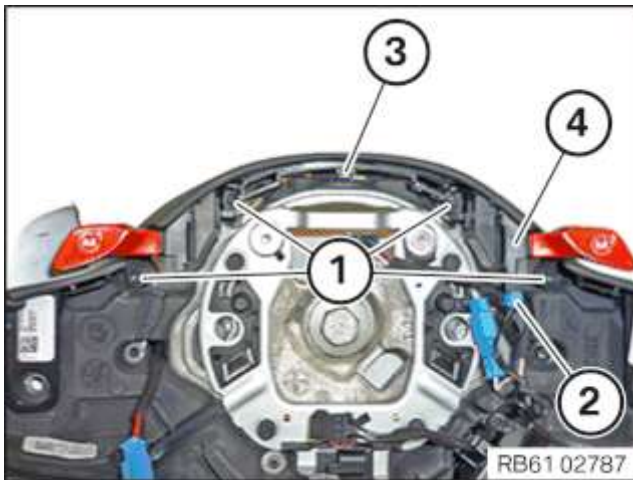
NOTE

The following step(s) must be performed if the specified component(s) is/are installed.



- Connect connectors (1) and lock.

Installing SPORT button



- Position SPORT button (4) on both sides.
- Feed in cable (3).
- Tighten the screws (1).

Tightening torques

SPORT button

Screw TS5x12

2Nm

- Connect connectors (2) and lock.

Installing the cover for the M Sport steering wheel



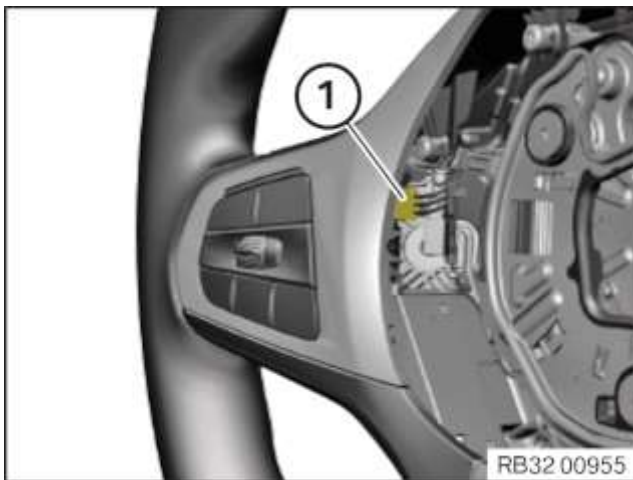
- Check the detents (1) for damage.
Detents (1) must not be damaged or missing.



- Carefully clip in cover (1) at catches (Pfeile).



- Tighten screws (1) on the back of the steering wheel.



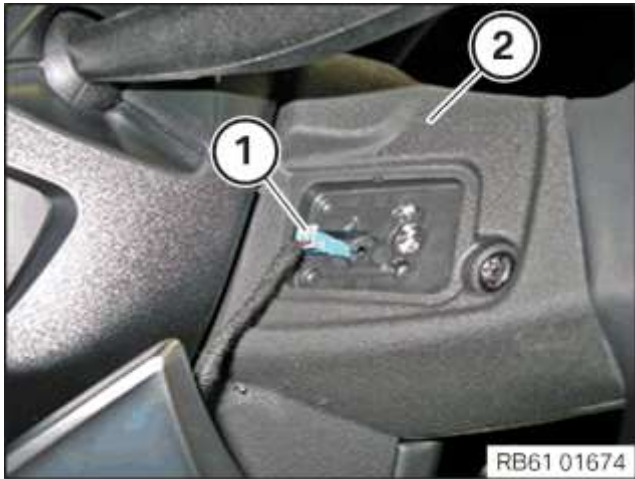
- Connect connectors (1) and lock.

Installing the shift paddle for the automatic transmission

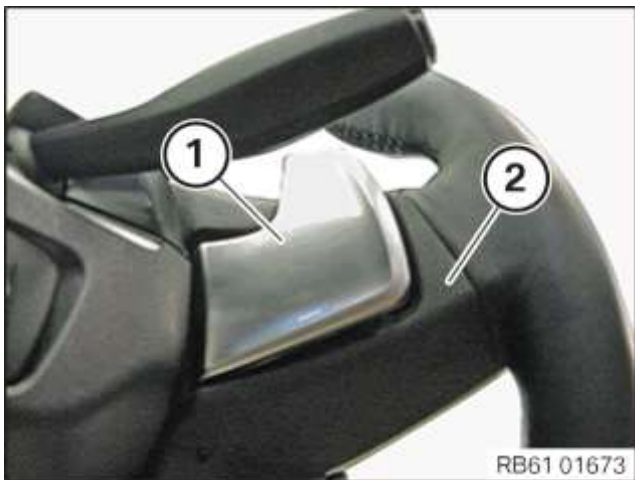


NOTE

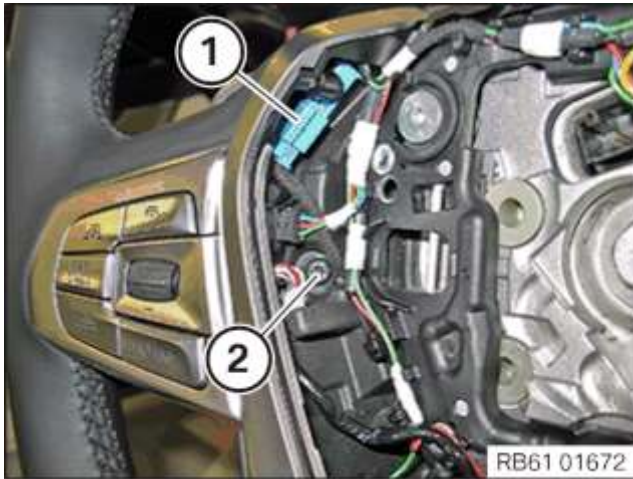
Description is for left component only. Procedure on the right side is identical.



- Insert the access line (1) into the rear of the steering wheel (2).



- Position the shift paddle (1) on the steering wheel (2).

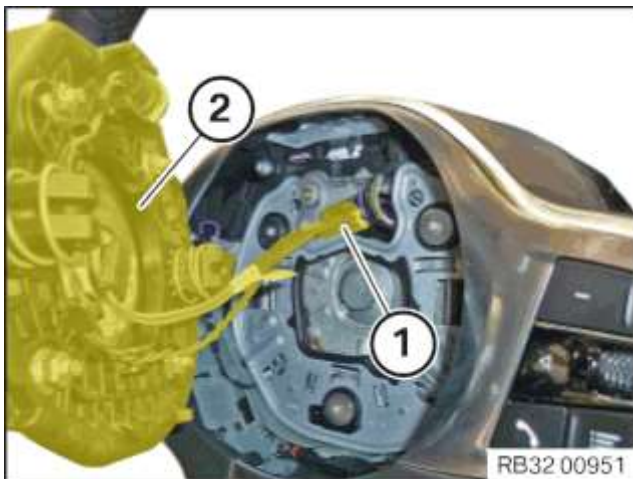


- Tighten down screw (2).
- Insert the cable and connect the connector (1).

Installing the airbag unit (M Sport steering wheel)

i TECHNICAL INFORMATION

After replacing the airbag unit (M Sport steering wheel) or possibly converting the standard steering wheel and airbag unit on the M Sport steering wheel, a software update or a programming/coding via ISTA must be performed.



- Connect and lock the connector (1) of the airbag unit (2).



- Press the airbag unit (1) with even pressure in the arrow direction into the steering wheel.

The airbag unit (1) must engage audibly and perceptibly.

Activate vehicle-specific high-voltage or low-voltage vehicle electrical system

Further information is available.



i TECHNICAL INFORMATION

Follow the vehicle-specific instructions described in the **additional information**.

- Activate the vehicle electrical system as described in the additional information.