

Steering wheel module, steering wheel and contact reel, replacement

Warning! Never measure any electrical properties on the steering wheel module.

Measurement can also be taken by use of the digital meter [999 6525](#)

Preliminary operations

Switch off the ignition.

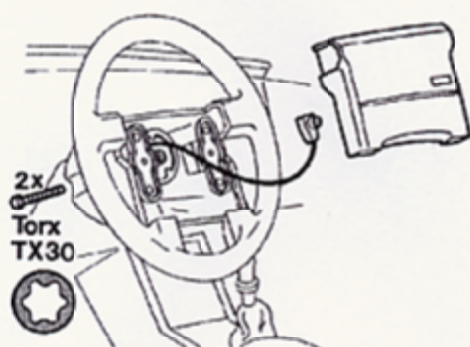
Disconnect the wiring at the orange (-1993) or the dark-green (1994-) connector (under the steering column).

Remove the steering wheel module

Release the two retaining bolts.

Tilt the steering wheel module and release the connector.

Note! When the steering wheel module is put to one side, it must always be stored resting on the igniting device.



Remove the steering wheel

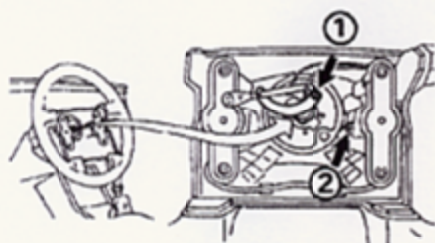
Turn the wheels to the straight-ahead position and engage the steering lock.

Slacken, but do not yet remove, the central securing nut.

Remove the locking screw at the end of the plastic strip from its 'parking' hole and insert it in fixing hole (1) in order to lock the contact reel. Tightening torque: 1 Nm.

Remove the central securing nut and, without turning the steering wheel, pull the wheel off the steering shaft.

Note! The locking screw must always remain attached to the plastic strip.



Remove the steering column covers

Remove the contact reel

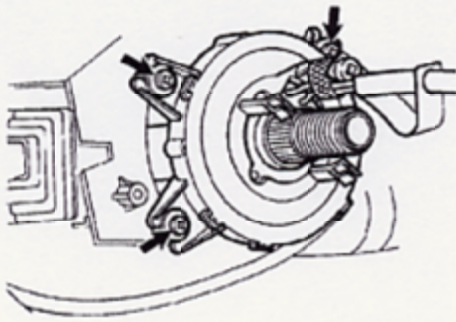
Cut through the tie-fastener around the ignition switch lock cylinder.

Release the contact reel cable.

Remove the three retaining bolts from the contact reel.

Disconnect the horn wiring.

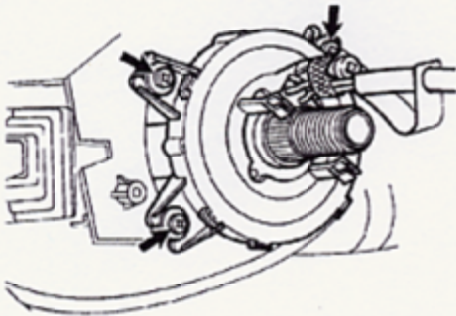
Remove the contact reel.



Fit the contact reel

Align the contact reel and tighten the three bolts. Tightening torque: 1.5 Nm. Locate the cable over the ignition switch lock cylinder and secure it with a tie-fastener. Reconnect the horn wiring.

Caution! Make sure that the wiring is not pinched off.



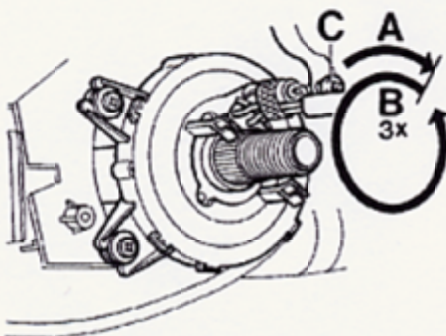
Adjust the contact reel

Only carry out this operation if the zero position has been lost. Turn the contact reel clockwise to its limiting position.

Do not use excessive force!

Then turn the contact reel counter-clockwise about 3 full revolutions and lock it by inserting the screw attached to the plastic strip in the fixing hole.

Tightening torque: 1 Nm.

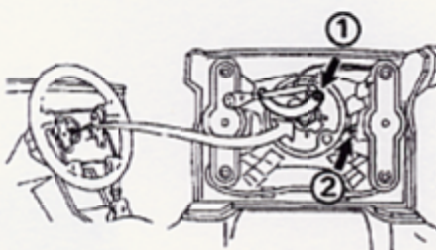


Fit the steering column covers

Fit the steering wheel

Insert the connector of the steering wheel module together with the yellow plastic strip through the opening in the steering wheel and locate the wheel on the steering shaft.

Fit and finger-tighten a new central securing nut. Remove the locking screw from the contact reel and place it in its parking hole (2). Tighten the central securing nut to a torque of 60 Nm.



Fit the steering wheel module

Locate the module on the steering wheel. Reconnect the wiring at the connector and align the steering wheel module.

Caution! Make sure that no cables are pinched off.

First tighten the right-hand retaining bolt (finger-tight only) and then the left-hand bolt (finger-tight). Tighten do both bolts, starting with the right-hand one, Tightening torque: 8 Nm.

Horn and/or horn components, renewal

E. Renewing the horn and/or horn components

Renew the horn

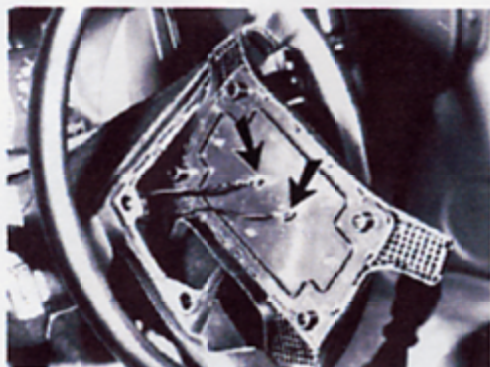
Remove the engine splash guard.
Disconnect the wiring at the two terminals.
Remove the nut and take off the horn.



Renewing the horn components

Renew the horn actuating pad

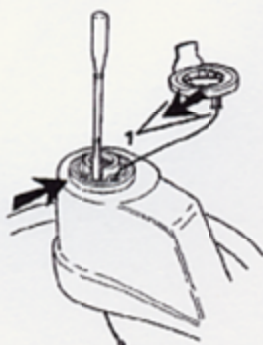
Pull the actuating pad off the steering wheel and disconnect the wiring at the two terminals.



Renew the slip ring

Remove the steering wheel.
Press in the two lugs (1).
Remove the earth lead, using a screwdriver.

Note! position the slip ring correctly (see illustration).



Renew the sliding contact

Remove the steering wheel.
Remove the trim covers from the steering column.
Disconnect the wiring at the connectors.
Bend the tabs outwards and remove the holder from the steering column.
Remove the two contacts.

