

612 Switches and Electrical Accessories

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GENERAL

This section covers replacement of interior switches and accessories.

When working on electrical switches, always disconnect the negative (–) cable from the battery and insulate the cable end to prevent accidental re-connection.

CAUTION—

Prior to disconnecting the battery, read the battery disconnection cautions given at the front of this manual on page viii.

NOTE—

- Wiring diagrams can be found in **Electrical Wiring Diagrams**.
- Fuse, relay and electrical component locations can be found in **610 Electrical Component Locations**.
- Replacement information for the transmission gear position/neutral safety switch is covered in **250 Gearshift Linkage**.
- Testing and replacement information for the oil pressure switch is covered in **119 Lubrication System**.

INTERIOR SWITCHES

Most of the interior switches are removed by carefully prying them from their cavity in the instrument panel or console. Notable exceptions are the steering column stalk switches as well as a few other interior switches. These exceptions are covered in the text below.

NOTE—

To prevent damaging or marring interior trim and interior plastic parts, wrap the tips of screwdrivers and pliers with plastic tape before prying out switches or electrical accessories.

INTERIOR SWITCHES

612-2 SWITCHES AND ELECTRICAL ACCESSORIES

Steering column stalk switches, removing and installing

Removal of the steering column switches requires removal of the steering wheel and the SRS driver's side airbag.

- Disconnect negative (–) battery cable. See **020 Maintenance**.

WARNING—

Prior to disconnecting the battery, read the battery disconnection cautions given at the front of this manual on page viii.

- On cars with driver's side airbag, remove airbag unit from steering wheel. Store airbag unit in a safe place. Be sure to follow the airbag removal procedure given in **721 Airbag System (SRS)**.

WARNING—

The airbag is an explosive device and should be treated with extreme caution. Improper handling of the airbag could cause serious injury or death. Store the airbag with the horn pad facing up. If stored facing down, accidental deployment could propel it violently into the air, causing injury.



- With front wheels pointed straight ahead, remove steering wheel. See **320 Steering and Wheel Alignment**.

- Remove trim panel from lower left side of instrument panel. See **513 Interior Trim**.

- Remove upper steering column trim cover retaining screw. Some models may have retaining pins instead of screw.

NOTE—

Steering column cover fastener types and locations may vary slightly among models.

- Depress stalk switch retaining hooks (arrows) and remove switch. Disconnect harness connector(s).

- Installation is reverse of removal. Install airbag unit as described in **721 Airbag System (SRS)**.

WARNING—

Once the airbag unit is installed and all other service procedures have been completed, start the engine and check that the SRS warning light goes out. If the warning light stays on, the SRS system will not function as designed. Have the system diagnosed and repaired by an authorized BMW dealer.



CAUTION—

On steering wheels mounted with a nut, use a new self-locking nut when mounting the steering wheel. The nut is designed to be used only once.

Tightening Torques

- Steering wheel to steering column spindle
- Self-locking nut (always replace) 80 Nm (59 ft-lb)
- Bolt 63 Nm (46 ft-lb)

Ignition switch, removing and installing

- Disconnect negative (–) battery cable. See 020 Maintenance.

WARNING —

Prior to disconnecting the battery, read the battery disconnection cautions given at the front of this manual on page viii.



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- Remove lower left dash panel as described in 513 Interior Trim.
- Remove screws retaining lower steering column cover and remove cover.
- Press ignition switch retaining clips or remove screws (arrows) on both sides of ignition switch and disconnect electrical connector.
- Installation is reverse of removal. Before mating ignition switch to ignition lock, check that switch is in correct position relative to ignition lock.

612-4 SWITCHES AND ELECTRICAL ACCESSORIES



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Ignition lock cylinder, removing and installing

- With ignition key in "radio" position (60° from "off"), insert stiff wire into lock opening (arrow). Pull lock cylinder out.

Light switches, removing and installing

The procedure given below applies to the light switches in the dashboard next to the instrument panel (headlight and foglight switches).

- Push switch down and insert a thin strip of metal (1.0 mm feeler gauge) to disengage switch locking tab.
- Using a small screwdriver, gently pry switch from instrument panel.
- Disconnect electrical harness connector from back of switch.
- Installation is reverse of removal.



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Power window switch assembly, removing and installing

- Power window switch assembly being removed from center console. Pry switch alternately at left and right sides (arrows) to remove.
- Disconnect electrical harness connector from switch assembly.
- Installation is reverse of removal. Note installation direction of harness connector.



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INTERIOR SWITCHES

**Hazard warning switch,
removing and installing**

- Remove power window switch as described earlier.
- Working from underneath center console, push hazard warning switch up out of console.
- Disconnect harness connector from switch.
- Installation is reverse of removal.

Outside mirror switch, removing

- Carefully pry off mirror adjusting knob.
- Pry mirror switch from armrest. Disconnect harness connector from switch.



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INTERIOR LIGHTS

Dome light, map lights, rear lights, trunk lights, door courtesy lights, replacing bulbs



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➤ Pry dome light out from left side. Release the locking blade and swing back reflector. Spread apart the contact blades to remove bulb.



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➤ Pry rear light out with small screwdriver, remove reflector and replace bulb.

— Use a screwdriver to carefully pry off trunk light lens and socket. Replace bulb.

— Pull door panel mounted courtesy light socket straight out of door panel. Remove plastic lens cover and replace bulb.

Interior Light Bulb Wattage

- Dome light 15 watts
- Map light 10 watts
- Rear light 10 watts
- Trunk light 10 watts
- Door panel courtesy light 5 watts

