

513 Interior Trim

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GENERAL

This repair group covers basic interior trim removal and installation. For removal and installation of interior switches, including interior lighting, see **612 Switches and Electrical Accessories**.

WARNING—

Cars covered by this manual are equipped with a Supplemental Restraint System (SRS) that automatically deploys an airbag(s). The airbag unit(s) uses a pyrotechnic device to electrically ignite a powerful gas. Before performing any work involving the steering wheel or interior trim in the vicinity of the airbag(s), disconnect the negative (–) battery cable and the orange SRS connector as described in **721 Airbag System (SRS)**. Performing repairs without disconnecting the SRS orange connector may cause serious personal injury or death.

CENTER CONSOLE

Center console, removing and installing

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

CAUTION—

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

- Disconnect orange SRS connector on steering column as described in **721 Airbag System (SRS)**.
- Remove lower left dash panel from below steering column as described later.

513-2 INTERIOR TRIM



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➤ Working in rear seat, remove ashtray/cigarette lighter cover, disconnect wiring harness and remove rear console mounting screws (**arrows**).

- Remove cassette tape box or phone console. Disconnect harness connectors, if applicable.

NOTE—

The phone console may be retained with hidden or difficult to see screws.

➤ Unclip and peel back dust boot at parking brake lever. Remove console mounting screw and remove rear center console section.

- Remove transmission shift lever knob. Lift out shift lever cover from top of center console. See **250 Gearshift Linkage**.
- Pry out emergency flasher switch, window switch assembly and ASC switch (where applicable) from center console. Disconnect harness connectors from switches.

CENTER CONSOLE

INTERIOR TRIM 513-3



- Open glove compartment. Remove center console side mounting screws (**arrows**).



- Carefully pry out heater/A/C control head from center console and detach electrical harness connectors (**arrows**).
- Lift center console off, twisting the rear end to right to clear parking brake handle.
- Installation is reverse of removal.

DASHBOARD

Dashboard, removing and installing

Label wires and connectors during the removal procedure as an aid for installation.

- Disconnect negative (–) battery cable. See **020 Maintenance**.
- Disconnect orange SRS connector on steering column as described in **721 Airbag System (SRS)**.

DASHBOARD

513-4 INTERIOR TRIM

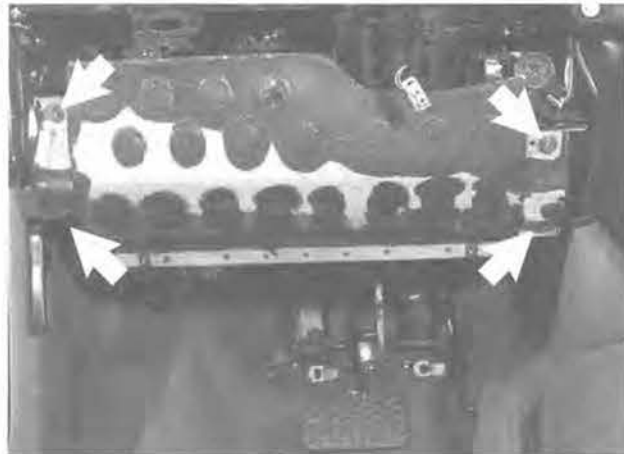
CAUTION—

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

WARNING—

SRS is complex and dangerous. Special precautions must be observed when servicing cars equipped with SRS. Serious injury may result if system service is attempted by persons unfamiliar with the BMW SRS and its approved service procedures.

- Remove steering wheel. See **320 Steering and Wheel Alignment**.
- Remove center console as described earlier.
- Remove glove compartment as described later.
- Remove panel from above glove compartment.
- Remove radio. See **650 Radio**.
- Remove instrument cluster and On-board Computer. Remove radio/On-board Computer bezel and detach harness connector inside bezel. See **620 Instruments**.
- Remove trim panel above pedal cluster.
- Remove carpeted panels from left and right sides of center console in footwells. Screw retains panel at forward end.
- Knee bolster mounting bolts (**arrows**).
 - Remove knee bolster (reinforcement) panel from lower left side of dashboard.
- Remove screws from center air grille in top of dashboard. Lift out grille.



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DASHBOARD

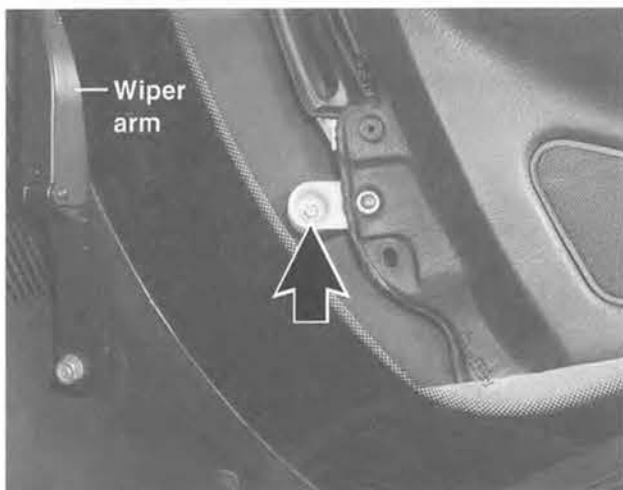
INTERIOR TRIM 513-5



- Remove dashboard mounting screws (**arrows**).
- Remove passenger airbag, if applicable.
- Lift off front dashboard trim at base of windshield.



- Peel back door seals on left and right sides in area of windshield pillar (A-pillar). Carefully lift off A-pillar trim panels from left and right sides.



- Remove front dashboard mounting screws from center, left and right sides. Left side shown (**arrow**).

DASHBOARD

513-6 INTERIOR TRIM



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- ◀ Remove mounting bolts (A, B) at lower left side of dashboard.

NOTE —

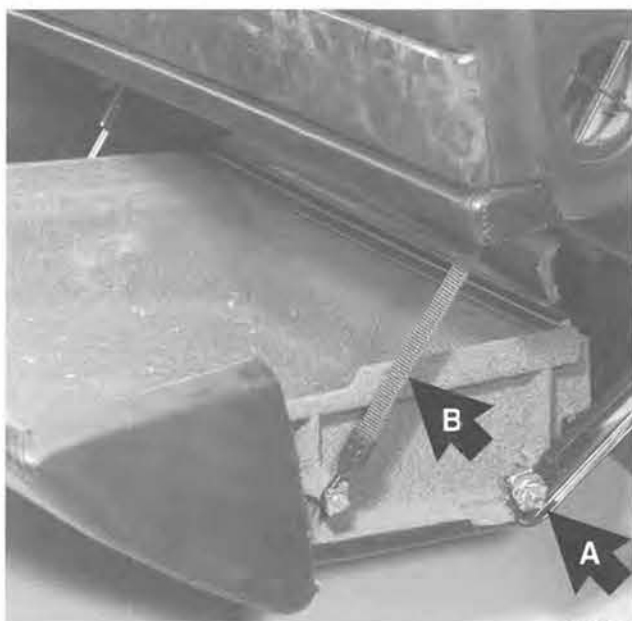
Wire ties will need to be cut and main harnesses moved out of the way to access the lower dashboard mounting bolts on the left side.

- Disconnect connectors for dash mounted loudspeakers.
- Slowly lift dashboard up and out, disconnecting harness connectors and air circulation hoses and cutting wire ties as necessary.
- Installation is reverse of removal.
 - Use new wire ties to keep under-dash harnesses in place. Do not overtighten wire ties when installing.
 - Check that fresh air flap is not obstructed when lowering panel into position.

GLOVE COMPARTMENT

Glove compartment, removing and installing

- Open glove compartment and swing backward.
- Detach support strap from right side.
- ◀ Remove glove compartment retaining clips (arrows), right side pivot (A) and support strap (B) shown. Left side pivot and support strut are similar.
- Pry off spring loaded front pivots and lower glove compartment, detaching electrical harness connector, if applicable.
- Installation is reverse of removal.



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GLOVE COMPARTMENT

OTHER INTERIOR TRIM

Lower left dash panel, removing and installing

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

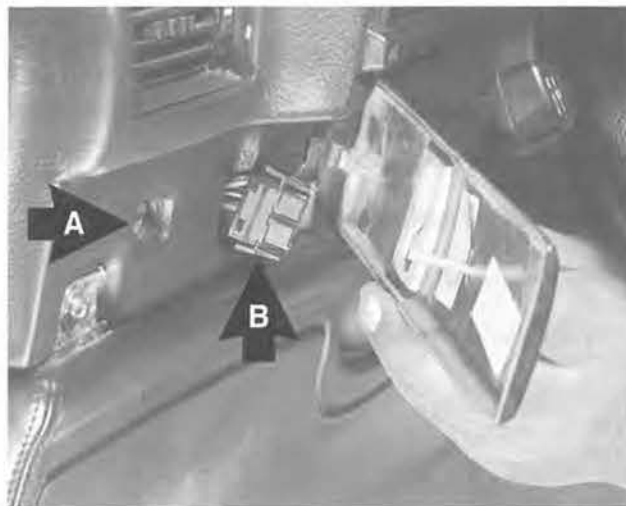
CAUTION—

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

- Disconnect orange SRS connector on steering column as described in **721 Airbag System (SRS)**.

WARNING—

SRS is complex and dangerous. Special precautions must be observed when servicing cars equipped with SRS. Serious injury may result if system service is attempted by persons unfamiliar with the BMW SRS and its approved service procedures.



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- Carefully pry wood trim out of clip (A), then slide trim toward left. Disconnect harness connector (B) from instrument illumination dimmer and remove dimmer from trim before reinstalling.

- Carefully remove wood trim covers from left and right side of steering column.



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- Remove left dash panel mounting screws (arrows) and remove panel.

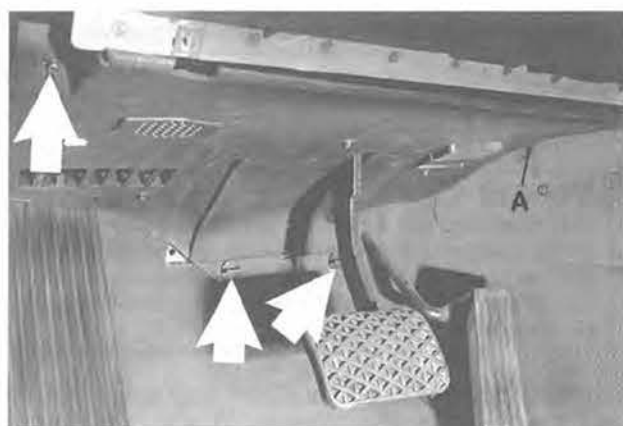
- Installation is reverse of removal.

513-8 INTERIOR TRIM

Pedal cluster trim panel, removing and installing

The pedal cluster trim panel is mounted above the pedal cluster and behind the lower left dash panel.

- Remove carpeted trim panel from driver side of center console. A screw retains the panel at forward end of each panel.
- Remove pedal cluster trim panel retaining clips and mounting screw (**arrows**) turn retainers 90° to release.
- Partially pull trim panel down and disconnect harness connectors from chime module.
- Unhook trim panel from center console at right side and remove.
- Installation is reverse of removal.
 - Make sure ventilation duct work is properly connected when installing panel into position.



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Rear parcel shelf, removing and installing

- Remove rear seat(s). See 520 Seats.
- Remove clips (**arrows**) from front of parcel shelf.
- Pull parcel shelf forward and off.
- Installation is reverse of removal.



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OTHER INTERIOR TRIM

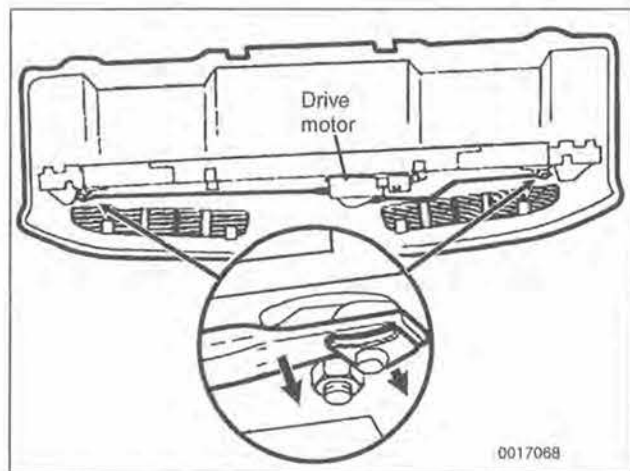
Rear window power sunshade, servicing

Beginning with model year 1993, an optional electrically operated rear window sunshade was available with E32 cars. The sunshade up/down switch is installed in the rear of the center console where it is accessible to rear seat passengers.

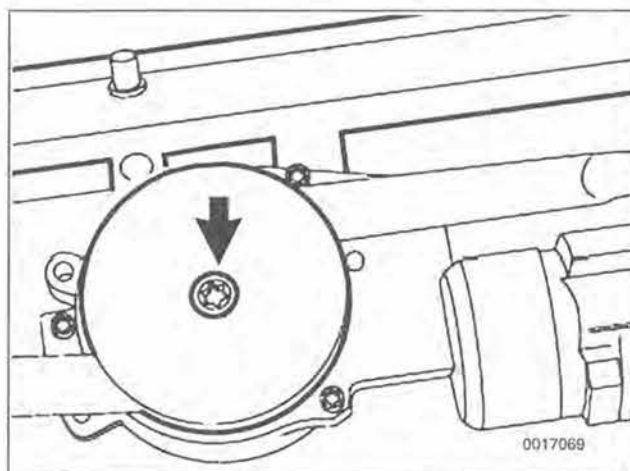
CAUTION—

Do not operate sunshade up/down switch unless drive mechanism is completely connected to sunshade.

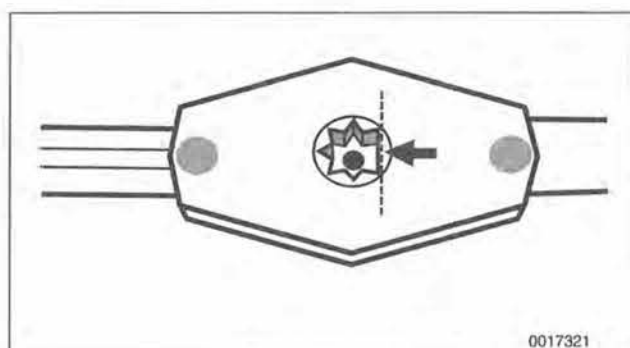
- Remove rear parcel shelf as described earlier.
- If sunshade is up, linkage is under spring pressure. Carefully pry out linkage and allow sunshade to roll down slowly.
- Remove retaining clips and pry out left and right linkage rods (inset).



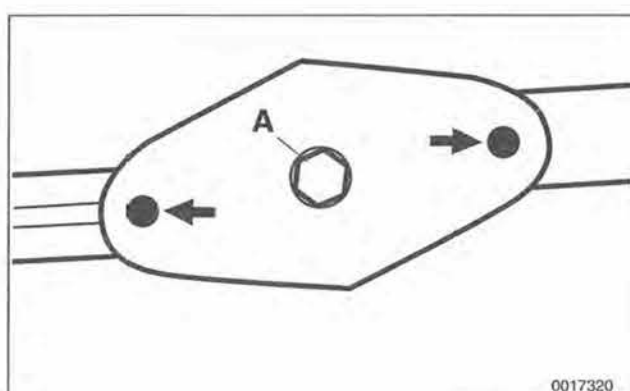
- Remove screws and clips holding drive motor. Pry out motor.
- Remove retaining screw (arrow) from center of linkage drive arm and remove arm with linkage rods.



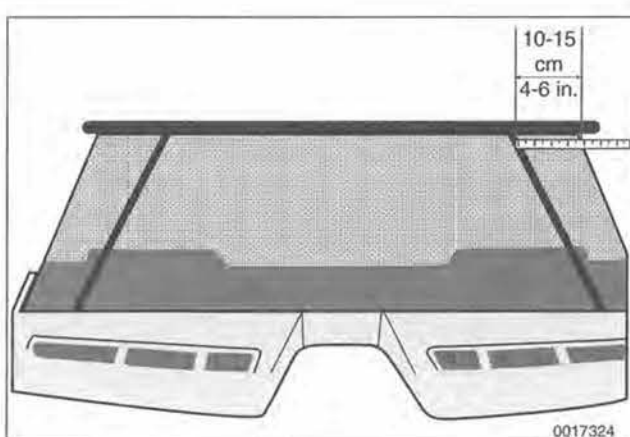
513-10 INTERIOR TRIM



- Position drive arm on new motor by aligning flat side of drive arm with flat side on motor shaft (**arrow**). Reinstall retaining screw.



- If drive arm has a hexagonal guide hole (**A**), it will not fit the redesigned motor shaft and must be replaced.
 - Drill out both linkage rod rivets (**arrows**) and remove linkage rods from arm.
 - Reinstall using new pins and lock clips in place of rivets.



- Reinstall drive motor loosely.
- Roll out sunshade until both left and right linkages are suspended. Reinstall retaining clips.
- Supply electrical power to sunshade motor. Extend and retract sunshade one complete cycle.
- Extend sunshade until linkage has a clearance of 10 - 15 cm (4 - 6 in).
 - With sunshade extended, clearance should be roughly equal for right and left linkage arms.
 - To adjust clearance, slide motor from side to side, then tighten retaining screws.
- Reinstall rear shelf with sunshade.



OTHER INTERIOR TRIM