

BMW

2001-03 525i

PRECAUTIONS

Warning: Batteries produce explosive gases that may cause personal injury. Do not expose the battery to flame or sparks. Always provide adequate ventilation. Do not smoke when working near batteries. Do not place tools or any similar object on the battery.

Warning: Do not allow any battery acid to come into contact with the eyes, the skin or clothing. Wear protective clothing, gloves and eye protection. Do not tilt the battery, or acid may leak from the vent hole.

Warning: If acid is splashed into the eyes, rinse them immediately for several minutes with clear water and consult a doctor immediately. Seek medical attention immediately if battery acid is accidentally swallowed. If acid is splashed onto the skin or clothing, neutralize it immediately with a soap solution and rinse with lots of water.

On vehicles with radio code, the radio code must be re-entered after disconnecting the battery. Note stored stations and restore them after connecting the battery. Stored settings of the on-board computer and clock will also be lost. All available central keys must be re-coded for vehicles with first generation infrared transmitter locking systems. DTCs may be set in some control units after battery is connected.

BATTERY

Removal

Disconnect battery ground cable first, followed by battery positive cable. Do not disconnect battery leads while engine is running.

1. Verify that ignition and all other electrical loads are "OFF."



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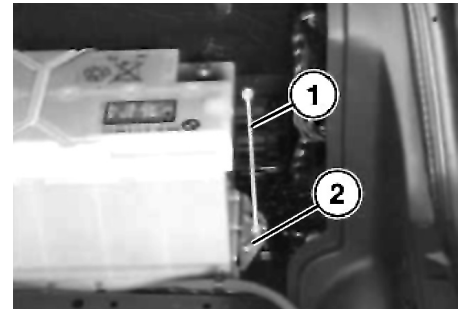
Fig. 1 Battery ground cable removal

2. Remove luggage compartment trim on righthand side panel.
3. Loosen locking screw (1), and disconnect battery ground cable, **Fig. 1**.
4. Open cover on positive terminal.
5. Loosen locking screw and disconnect positive battery cable.
6. Remove mounting screw (1) and remove battery hold down (2), **Fig. 2**.
7. Slide battery to rear, and disconnect vent hose.
8. Lift battery from vehicle.

Installation

Connect positive battery cable first, then connect battery ground cable.

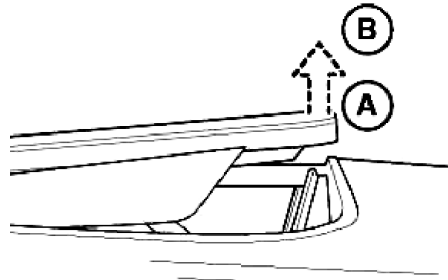
1. Position battery in vehicle, and verify that battery is correctly seated.
2. Connect battery vent hose.
3. Install battery hold down bracket (2) and mounting screw (1), then tighten as required, **Fig. 2**.
4. Connect positive battery cable and **torque** locking screw to 44 inch lbs.
5. Close cover on positive terminal.
6. Connect battery ground cable. **Torque** locking screw (1) to 44 inch lbs, **Fig. 1**.
7. Install luggage compartment trim.



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Fig. 2 Battery hold down removal

8. Sunroof initialization may need to be performed after battery has been connected. Initialize sunroof as follows:
 - a. Press and hold sunroof switch in "Lift" position. If delayed starting or sudden stopping of sunroof occurs, continue pressing switch in "Lift" position.
 - b. After reaching lift end position (A), keep switch pressed for an additional 20 seconds, **Fig. 3**.
 - c. Normalization is completed when sunroof in lift end position (A) moves briefly in direction of position (B), **Fig. 3**.
 - d. Release switch after normalization for a maximum of five seconds.
 - e. Hold switch in "Lift" position until sunroof has returned to closed position after a complete opening movement.
 - f. Release switch.
 - g. Verify one-touch function, anti-trapping protection and, if required, comfort function.
9. Install a suitably programmed scan tool, and follow manufacturer instructions to clear DTCs that may have been set when battery was disconnected.



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Fig. 3 Sunroof initialization

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