

BMW

2011-14 740Li

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 equipped with Intelligent Battery Sensor (IBS), do not under any circumstances release socket-head cap screw of IBS. Do not establish any connection between the IBS and the sensor screw.

The IBS and wiring can be destroyed by mechanical strain during battery replacement. Do not use force when disconnecting the pole shoe from the battery terminal. Do not pull on the ground cable. Do not place any tools under the IBS to lever off the pole shoe. Do not use IBS connections as levers.

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.

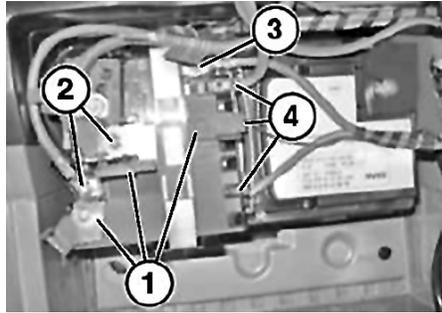


Fig. 1 Power distribution box covers, nuts & plug connections

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."
2. Remove luggage compartment floor trim panel.
3. Loosen battery ground cable terminal nut.
4. Disconnect battery ground cable terminal from battery and position aside. Do not disconnect terminal by force.
5. Fold up power distribution box covers (1), **Fig. 1**.
6. Remove power distribution box nuts (2), **Fig. 1**.
7. Remove power distribution box nut (3), **Fig. 1**.
8. Disconnect electrical connectors (4), **Fig. 1**.
9. Press locking brackets (1) downward and unclip in direction of arrow as illustrated in, **Fig. 2**. Expand locking bracket (1) using screwdriver and unclip, as required.
10. Remove power distribution box (2) towards top, **Fig. 2**.
11. Fold back cover (1) as illustrated in **Fig. 3**.

12. Loosen battery positive cable terminal nut (2), **Fig. 3**.
13. Disconnect battery positive cable terminal from battery and position aside. Do not disconnect terminal by force.
14. Remove battery holder screw (1) and holder (2), **Fig. 4**.
15. Detach vent hose from battery.
16. Remove battery from vehicle.

Installation

1. Install battery to vehicle.
2. Attach vent to battery.
3. Install battery holder (2) and screw (1), **Fig. 4**. **Torque** screw to 86 inch lbs.
4. Connect battery positive cable terminal to battery. **Torque** terminal nut to 44 inch lbs.
5. Close battery positive cable terminal cover (1), **Fig. 3**.
6. Install power distribution box and clip locking brackets (1) to secure, **Fig. 2**.
7. Connect electrical connectors (4) to power distribution box, **Fig. 1**.
8. Install power distribution box nuts (2) and (3), **Fig. 1**. **Torque** nuts to 71 inch lbs.
9. Close power distribution box covers (1), **Fig. 1**.
10. Connect battery ground cable terminal to battery. **Torque** terminal nut to 44 inch lbs.
11. Install luggage compartment floor trim panel.
12. **On models equipped with sunroof**, synchronize sunroof as follows:
 - a. Press and hold sunroof switch in "LIFT" direction.
 - b. After reaching full "LIFT" position, continue holding switch for an additional 20 seconds.
 - c. Release switch for five seconds.
 - d. Hold down switch in raising position until sunroof has made a complete opening and closing.
 - e. Verify correct sunroof operation.
13. **On all models**, initialize power windows as follows:
 - a. Close all windows.
 - b. Press and hold each window switch in one touch closed position (second switch position) for 15–25 seconds.
 - c. Verify proper one touch window operation.

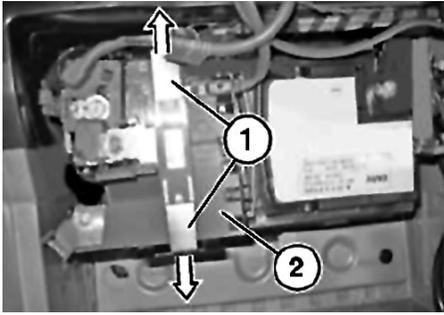


Fig. 2 Power distribution box removal

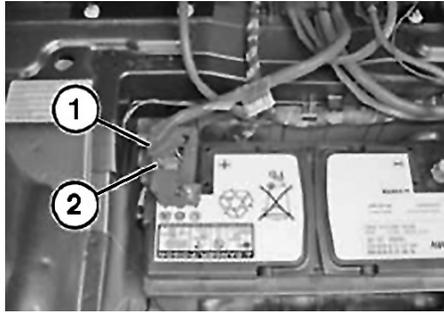


Fig. 3 Battery positive terminal removal

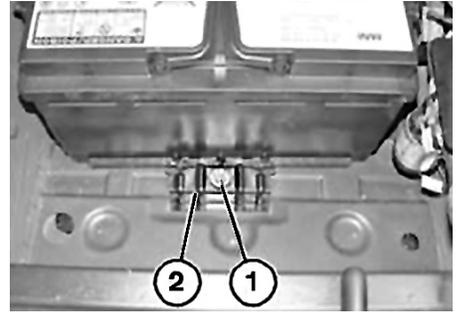


Fig. 4 Battery holder removal

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