

MINI

2011 Cooper Countryman

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.

Warning: 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.

Warning: 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.

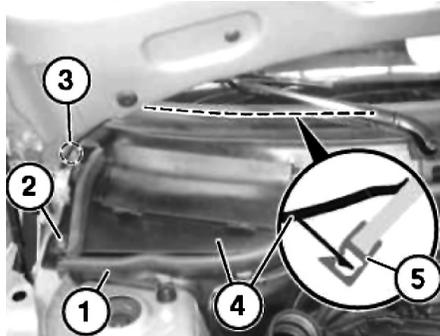


Fig. 1 Righthand cowl panel cover removal

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."
2. Remove rubber seal (1), remove fasteners (2 and 3), then unclip and remove righthand cowl panel cover (4), **Fig. 1.**

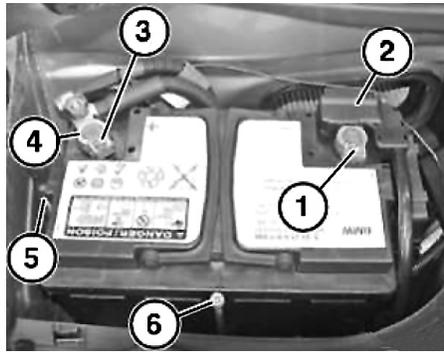
3. Disconnect battery ground cable (2), **Fig. 2.**
4. Disconnect battery positive cable (4), **Fig. 2.**
5. Detach battery vent hose (5), **Fig. 2.**
6. Remove mounting bolt (6) and battery retaining bracket, **Fig. 2.**
7. Remove battery.

Installation

Battery cables are routed through openings in the battery container cover. Install both battery leads so that they run at a 90° angle to the battery container.

When installing a new battery in vehicles equipped with Intelligent Battery Sensor (IBS), replacement battery information must be programmed into the vehicle data in accordance with specifications.

1. Install battery.
2. Install battery retaining bracket.
3. **Torque** battery retainer bracket mounting bolts to 53 inch lbs.
4. Attach battery vent hose.
5. Connect battery positive cable first, then connect battery ground cable.
6. Ensure that battery clamps are correctly positioned on terminals when installed.
7. **Torque** battery cable clamp nuts to 44 inch lbs.
8. Install righthand cowl panel cover (4), install fasteners (2 and 3), and then install rubber seal (1), **Fig. 1.**
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. 2 Battery removal

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