

MINI

2002-06 Cooper

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 disconnect-

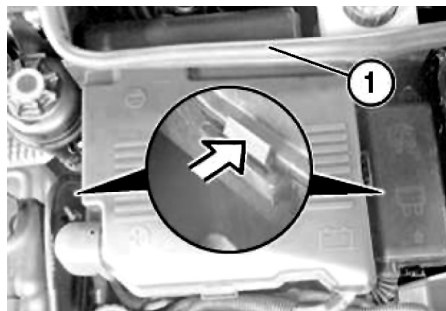


Fig. 1 Battery cover removal

ing 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."
2. Remove rubber seal (1), **Fig. 1**.
3. Press clips in direction of arrow and remove battery cover, **Fig. 1**.

4. Detach battery vent hose (1), **Fig. 2**.
5. Disconnect battery ground cable (2), **Fig. 2**.
6. Disconnect battery positive cable (3), **Fig. 2**.
7. Remove mounting bolts (4) and battery retaining bracket, **Fig. 2**.
8. 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.

1. Install battery.
2. Install battery retaining bracket.
3. **Torque** battery retainer bracket mounting bolts to 53 inch lbs.
4. Connect battery positive cable first, then connect battery ground cable.
5. Ensure that battery clamps are correctly positioned on terminals when installed.
6. **Torque** battery cable clamp nuts to 44 inch lbs.
7. Attach battery vent hose.
8. Install battery cover.
9. Install rubber seal (1), **Fig. 1**.
10. Initialize both door window motors as follows:
 - a. Close door.
 - b. Raise window glass and keep switch depressed in "LIFT" position for approximately five seconds, then release.
 - c. Open door; window glass should move down slightly.
 - d. Close door; window glass should move into closed position.
 - e. Repeat for opposite door.

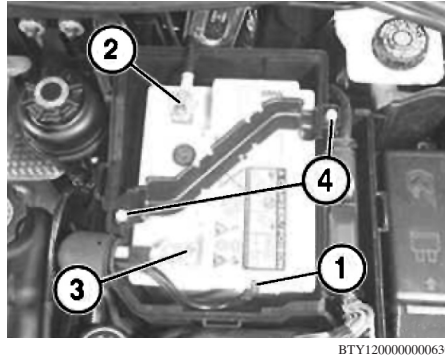


Fig. 2 Battery removal

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