

MINI 2014 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 objects on the battery.

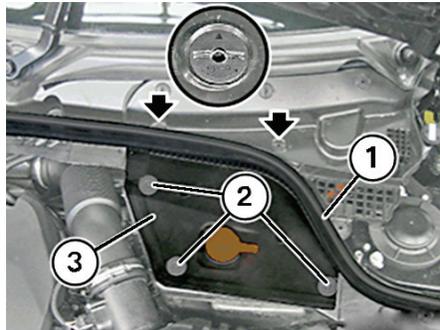
Warning: Do not allow any battery acid to come into contact with the eyes, the skin or clothing. Wear protective clothing, gloves and eye protection. Do not tilt the battery, or acid may leak from the vent hole.

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.

Caution: 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.

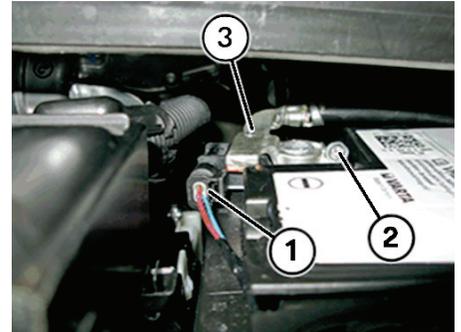
Caution: The IBS and wiring can be destroyed by mechanical strain during battery replacement. Do not use force when disconnecting the pole shoe from the battery terminal. Do not pull on the ground cable. Do not place any tools under the IBS to lever off the pole shoe. Do not use IBS connections as levers.

On vehicles with radio code, the radio code must be 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 coded for vehicles with first generation infrared transmitter locking systems. DTCs may be set in some control units after battery is connected.



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Fig. 1 Battery cover removal



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Fig. 2 Battery ground cable removal

BATTERY

Removal

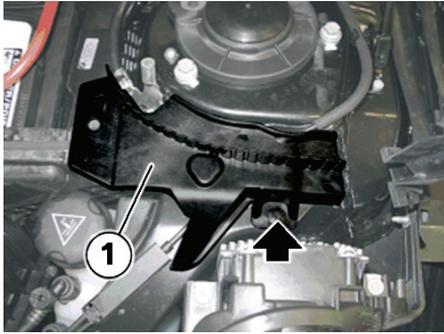
Disconnect battery ground cable first, followed by battery positive cable. Do not disconnect battery leads while engine is running.

1. Verify that ignition and all other electrical loads are OFF.
2. Remove intake silencer housing.
3. Partially detach seal (1), **Fig. 1**.
4. Open locks by turning counterclockwise. Release screws (2) and remove battery cover (3), **Fig. 1**.
5. Unlock and disconnect connector (1), **Fig. 2**.
6. Loosen nut (2) and disconnect battery ground cable (3) and secure at side, **Fig. 2**.
7. Release expanding rivet and remove mounting for gasket (1), **Fig. 3**.
8. Remove screws and remove tension strut (1), **Fig. 4**.
9. Loosen nut (1) and remove positive battery cable from positive battery terminal, **Fig. 5**.
10. Detach vent hose (2), **Fig. 5**.
11. Release screw (3) and remove holder, **Fig. 5**.
12. Lift out battery (4), **Fig. 5**.

Installation

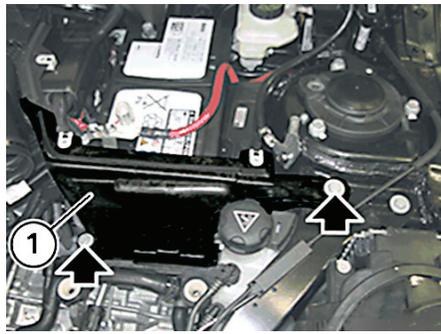
When installing a new battery in vehicles equipped with Intelligent Battery Sensor (IBS), replacement battery information must be programmed into the vehicle data in accordance with specifications.

1. Install battery (4), **Fig. 5**.
2. Install holder and screw (3), **Fig. 5**. **Torque** screw to 14 ft. lbs. Ensure battery is correctly seated in associated mounting.
3. Install vent hose (2) and clip in, **Fig. 5**. Ensure vent hose is correctly laid.
4. Install positive battery cable and **torque** nut (1) to 44 inch lbs., **Fig. 5**.
5. Install tension strut (1) and screws, **Fig. 4**. **Torque** screws to 14 ft. lbs.
6. Install mounting for gasket (1) and secure with expanding rivet, **Fig. 3**.
7. Install battery ground cable (3) and **torque** nut (2) to 44 inch lbs., **Fig. 2**.
8. Connect connector (1), **Fig. 2**.
9. Install battery cover (3) and screws (2), **Fig. 1**. **Torque** screws to 25 inch lbs.
10. Turn locks up to limit position against direction of arrow, **Fig. 1**.
11. Install gasket (1) and press down firmly, **Fig. 1**.



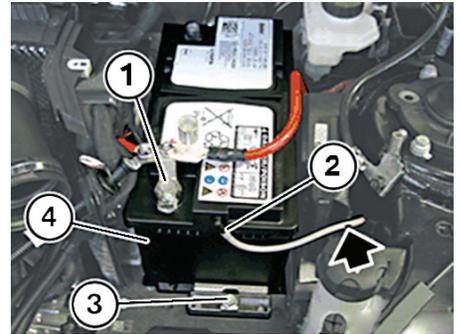
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Fig. 3 Gasket rivet removal



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Fig. 4 Tension strut removal



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Fig. 5 Battery positive cable removal

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