

# BMW 2012-16 M3

## PRECAUTIONS

**Warning:** Unless directed otherwise, ignition and start switch must be in OFF or LOCK position, and all electrical loads must be OFF before servicing any electrical component. Failure to follow these precautions may result in personal injury and/or damage to vehicle or its components.

**Warning:** Batteries produce explosive gases that may cause personal injury. Do not expose 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 battery.

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

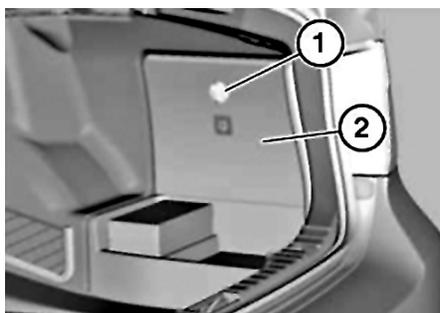
**Warning:** If acid is splashed into eyes, rinse them immediately for several minutes with clear water and consult a doctor immediately. Seek medical attention immediately if battery acid is accidentally swallowed. If acid is splashed onto skin or clothing, neutralize it immediately with a soap solution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

On vehicles with radio code, radio code must be entered after disconnecting battery. Note stored stations and restore them after connecting battery. Stored settings of 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. Diagnostic Trouble Codes (DTCs) may be set in some control units after battery is connected.

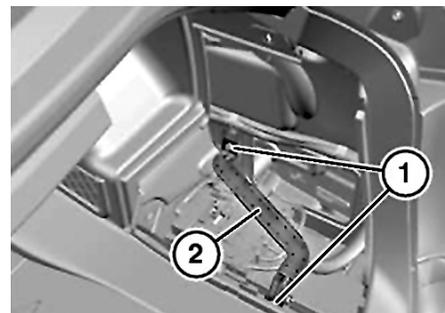
## BATTERY R&R

### Removal

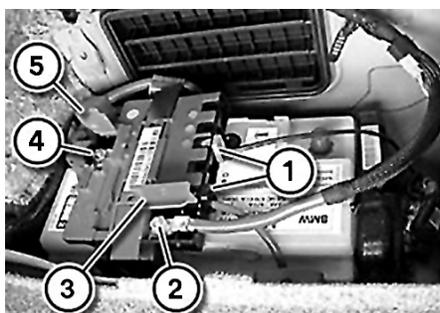
1. Record all of vehicle preset radio stations.
2. Turn OFF all lamps and accessories.
3. Turn fastener (1) 90° in lefthand direction, then open and remove luggage compartment access door, **Fig. 1**.
4. Disconnect battery ground cable from battery.
5. Remove distribution box as follows:
  - a. Remove bracket mounting screws (1) and remove bracket (2), **Fig. 2**.
  - b. Disconnect connectors (1), **Fig. 3**.
  - c. Fold back cover (3), **Fig. 3**.
  - d. Remove nut (2) and cable from distribution box, **Fig. 3**.
  - e. Fold back cover (5), **Fig. 3**.
  - f. Remove nut (4) and cable from distribution box, **Fig. 3**.
  - g. Press locking brackets (1) downward and remove, **Fig. 4**.



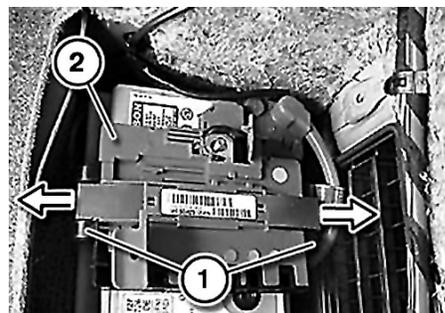
**Fig. 1 Access door removal**



**Fig. 2 Battery bracket removal**



**Fig. 3 Distribution box wiring removal**



**Fig. 4 Distribution box removal**

- h. Remove distribution box (2) from battery, **Fig. 4**.
6. Unlock positive terminal cover (1), **Fig. 5**.
7. Loosen nut (2), and disconnect cable (3) from battery, **Fig. 5**.
8. Disconnect vent hose (1) from battery, **Fig. 6**.
9. Remove hold down bolt (2), **Fig. 6**.
10. Remove hold down and protector (3), **Fig. 6**.
11. Fold open handles (4) and lift out battery, **Fig. 6**.

### Installation

1. Install battery and hold down (3), **Fig. 6**.
2. Install and tighten hold down bolt (2), **Fig. 6**.
3. Attach vent line (1) to battery, **Fig. 6**.
4. Install positive cable, and torque clamp bolt (2) to 47 inch lbs., **Fig. 5**.
5. Close positive terminal cover (1), **Fig. 5**.
6. Install distribution box as follows:
  - a. Install distribution box (2) to battery, **Fig. 4**.
  - b. Install nut (4) and cable to distribution box, **Fig. 3**.
  - c. Fold back cover (5), **Fig. 3**.
  - d. Install nut (2) and cable to distribution box, **Fig. 3**.
  - e. Fold back cover (3), **Fig. 3**.
  - f. Connect connectors (1), **Fig. 3**.

- g. Install bracket (2) and mounting screws (1), **Fig. 2**.
7. Install ground cable, and torque clamp bolt to 47 inch lbs.
8. Close ground terminal cover.
9. Install luggage compartment access door.
10. Initialize power windows as follows:
  - a. Close all windows.
  - b. Press and hold each window switch at one touch closed position (2nd switch position) for 15–25 seconds.
  - c. Verify proper one touch window operation.
11. **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. Verify correct sunroof operation.
12. **On models equipped with mirror compass,** calibrate compass as follows:
  - a. Refer to vehicle owners guide for more information.
  - b. Calibrate compass in a large open area away from large metal buildings.
  - c. Press and hold setting button located on bottom of mirror for six to nine seconds. Release button when "C" is indicated in display.
  - d. Safely drive vehicle two to three

- times in a circle at approximately six mph. Circle should be at least twice vehicles turning circle.
- e. Calibration is complete when a valid direction is displayed.
  - f. **On models equipped with convertible top or hardtop**, compass must be calibrated once with soft top or hardtop closed and once with soft top or hardtop open.
13. **On all models**, set clock and program radio stations back into radio as recorded at beginning of procedure.

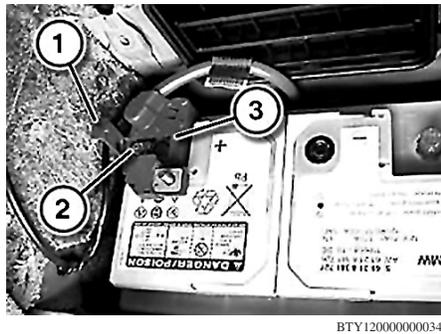


Fig. 5 Positive cable removal

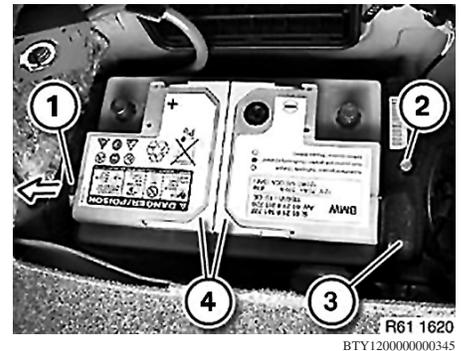


Fig. 6 Battery removal

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