

# BMW 2006-10 M5

## 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 the vehicle or its components.

**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 with radio code, radio code must be re-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 re-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.

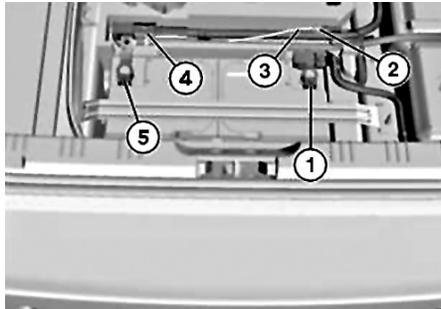


Fig. 1 Battery cable removal

## BATTERY

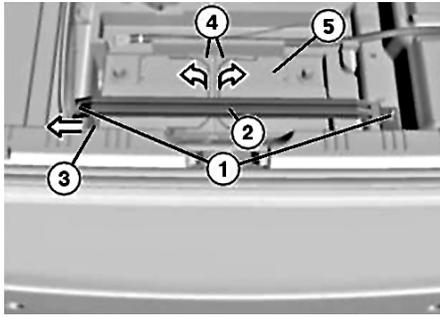
### Removal

1. Record all vehicle preset radio stations.
2. Turn OFF all lamps and accessories.
3. Remove luggage compartment floor trim.
4. Loosen clamp and disconnect battery ground cable (1) from battery, **Fig. 1**.
5. Disconnect IBS connector (2), **Fig. 1**.
6. Loosen clamp (5) and disconnect battery positive cable from battery, **Fig. 1**.
7. Remove battery retaining bar (2) retaining nuts (1), **Fig. 2**.
8. Disconnect vent (3) from battery, **Fig. 2**.
9. Flip handles (4) open and lift out battery (5), **Fig. 2**.

### Installation

1. Install battery (5), **Fig. 2**.
2. Install vent (3) to battery, **Fig. 2**.
3. Install battery retaining bar (2) and tighten nuts (1), **Fig. 2**.
4. Connect positive cable (4) and torque nut (5) to 47 inch lbs., **Fig. 1**.
5. Connect ground cable (1) and torque

- nut to 47 inch lbs., **Fig. 1**.
6. Connect IBS connector (2), **Fig. 1**.
7. Install luggage compartment floor trim.
8. Activate steering angle sensor as follows:
  - a. Start engine and allow to idle.
  - b. Turn steering wheel from lock to lock.
  - c. Turn steering wheel to center position.
  - d. Turn ignition off.
  - e. Turn ignition on, and verify AFS lamp and "Check Control" message go out.
  - f. Turn ignition off.
9. 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.
10. **On models equipped with mirror compass**, calibrate compass as follows:
  - a. Refer to vehicle owner's 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 6 mph. Circle should be at least twice vehicle's 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.
11. **On all models**, set clock and program radio stations back into radio as recorded at beginning of procedure.



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**Fig. 2 Battery removal**

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