

# BMW 2011-16 X3

## 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. Disconnect battery ground cable to prevent an electrical spark should a tool or equipment come in contact with an exposed electrical terminal. Failure to follow these precautions may result in personal injury and/or damage to vehicle or its components.

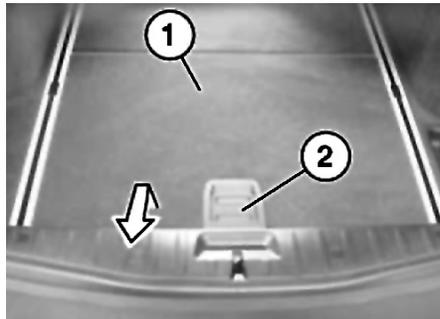
## BATTERY

### Removal

1. Record all vehicle preset radio stations.
2. Turn OFF all lamps and accessories.
3. Ensure ignition switch is in OFF position.
4. Unlock luggage compartment floor trim panel (1) using handle (2), and remove in direction of arrow, **Fig. 1**.
5. Disconnect electrical connector (2), **Fig. 2**.
6. Disconnect battery ground cable.
7. Open positive battery cable cover.
8. Remove safety battery terminal nut (1), **Fig. 3**.
9. Remove positive battery cable.
10. Remove hold down bolt (1), **Fig. 4**.
11. Raise upper hold down bracket up (3), **Fig. 4**.
12. Remove lower hold down bracket (2), **Fig. 4**.
13. Remove battery vent.
14. Fold both clips open.
15. Remove battery.

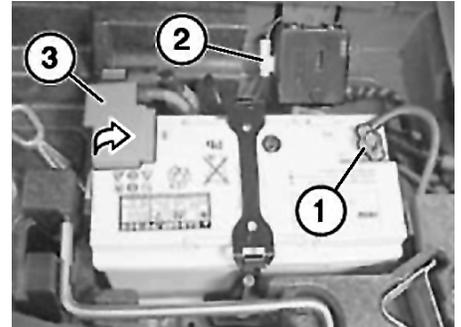
### Installation

1. Install battery.
2. Fold both clips closed (4), **Fig. 4**.
3. Install battery vent.
4. Install lower hold down bracket.
5. Lower upper hold down bracket.
6. Install hold down bolt.
7. Install positive battery cable.
8. Install positive battery terminal nut. **Torque** nut to 92 inch lbs.
9. Close positive battery cable cover.
10. Connect battery ground cable.



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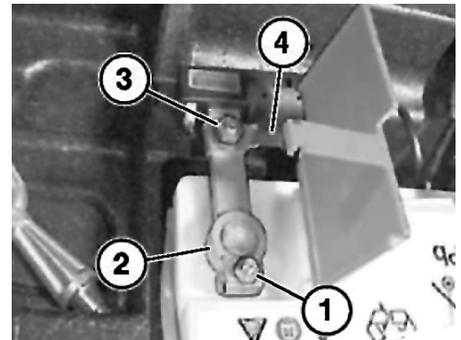
**Fig. 1** Luggage compartment floor trim panel



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**Fig. 2** Battery

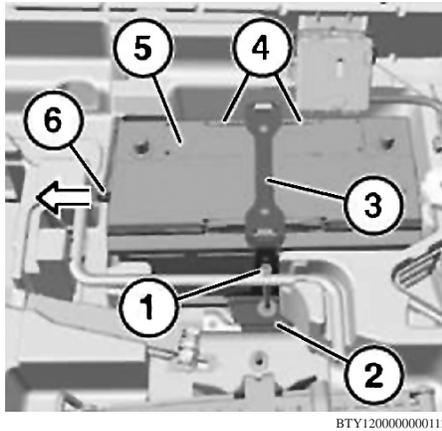
11. Connect electrical connector.
12. Install luggage compartment floor trim panel.
13. Initialize power windows as follows:
  - a. Close all windows.
  - b. Press and hold each window switch in one touch closed position (2nd switch position) for 15–25 seconds.
  - c. Verify proper one touch window operation.
14. **On models equipped with sliding/pop-up roof**, synchronize sliding/pop-up roof 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.
15. **On models equipped with mirror compass**, calibrate compass as follows:
  - a. Calibrate compass in a large open area away from large metal buildings.
  - b. Press and hold setting button located on bottom of mirror for six to nine seconds. Release button when “C” is indicated in display.
  - c. Safely drive vehicle two to three times in a circle at approximately six mph. Circle size should be at least twice vehicles turning circle.
  - d. Calibration is complete when a valid direction is displayed.
  - e. **On models equipped with con-**



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**Fig. 3** Positive battery safety terminal

- a. **vertible top or hardtop**, compass must be calibrated once with soft top or hardtop closed and once with soft top or hardtop open.
16. **On all models**, initialize steering wheel angle as follows:
    - a. Start engine.
    - b. Rotate steering wheel lefthand to full lock.
    - c. Rotate steering wheel righthand to full lock.
    - d. Rotate steering wheel to center position.
    - e. Turn engine OFF.
    - f. Turn engine ON, and ensure engine lamp goes out.
  17. Set clock and program radio stations back into radio as recorded at beginning of procedure.



**Fig. 4 Battery hold down**

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