

BMW 2014 X5

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 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.

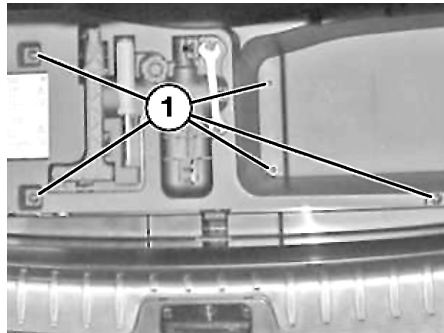
On vehicles equipped with intelligent battery sensor (IBS), do not under any circumstances release socket-head cap screw of IBS. Do not establish any connection between the IBS and the sensor screw.

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.

BATTERY Removal

Disconnect battery ground cable first,



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Fig. 1 Battery cover removal

followed by battery positive cable. Do not disconnect battery leads while engine is running.

Do not under any circumstances use force to pull off ground cable.

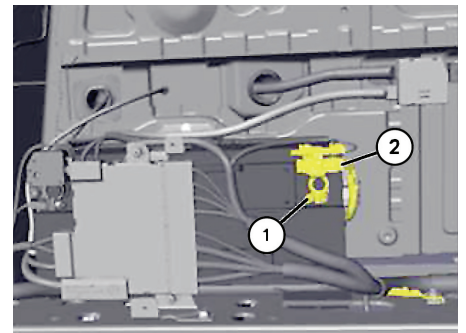
Do not under any circumstances pull or lever safety battery terminal off by force.

1. Loosen screws (1) and remove battery cover upward, **Fig. 1**.
2. Loosen nut (1) and pull off battery ground cable and IBS (2) in an upward direction; place to one side and secure, **Fig. 2**.
3. Open cover (1) and loosen nut (2), **Fig. 3**.
4. Remove positive battery cable with safety battery terminal (3) toward top; lay to one side and fix in position, **Fig. 3**.
5. Detach vent hose (1) from battery, **Fig. 4**.
6. Loosen screws (2) at battery holder with power distribution box (3), **Fig. 4**.
7. Loosen screw (4) and remove battery holder toward bottom, **Fig. 4**.
8. Remove battery (5) in direction of arrow from retaining rail (6), **Fig. 4**.

Installation

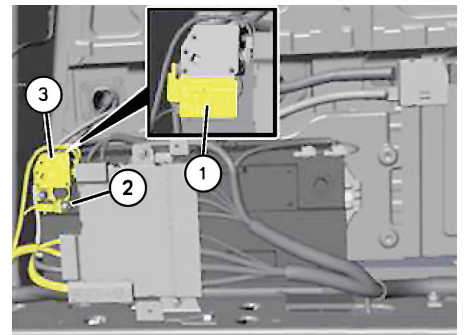
When installing a new battery in vehicles equipped with IBS, replacement battery information may need to be programmed into the vehicle data in accordance with specifications.

1. Install battery into vehicle. Ensure battery and battery holder are correctly seated.
2. Install battery holder and screw (4),



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Fig. 2 Battery ground cable removal



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Fig. 3 Battery positive cable removal

Fig. 4. Torque screw to 71 inch lbs.

3. Install screws (2) at battery holder with power distribution box (3), **Fig. 4**. **Torque** screws to 71 inch lbs.
4. Attach vent hose (1) to battery, **Fig. 4**.
5. Install positive battery cable with safety battery terminal (3) to battery and **torque** nut (2) to 44 inch lbs., **Fig. 3**. Ensure positive battery cable with safety battery terminal is correctly fitted on positive battery terminal.
6. Close cover (1) over battery positive cable with safety battery terminal (3), **Fig. 3**.
7. Connect battery ground cable with IBS (2) to battery and **torque** nut (1) to 44 inch lbs., **Fig. 2**.
8. Install battery cover and screws (1), **Fig. 1**.

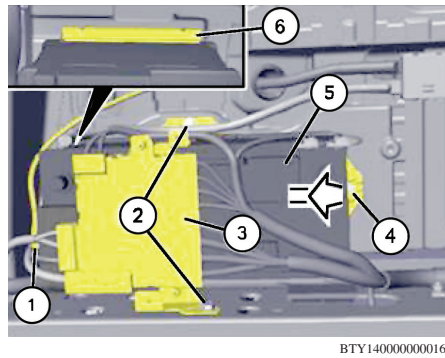


Fig. 4 Battery removal

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