

**Haynes**  
shows you how

**BMW 3-Series 320i & 320xi (12-14), 325i, 325xi, 330i & 330xi (06) & 328i & 328xi (07-14) Haynes Online Manual**

## 3 Battery - disconnection and reconnection

### Caution:

Always disconnect the cable from the negative battery terminal **FIRST** and hook it up **LAST** or the battery may be shorted by the tool being used to loosen the cable clamps.

### Note:

On these models, the negative cable connector of the battery has an electrical monitor called the Intelligent Battery Sensor (IBS). Do not pry under the IBS, and do not attach any other ground wires to the negative cable end.

Some systems on the vehicle require battery power to be available at all times, either to maintain continuous operation (alarm system, power door locks, etc.), or to maintain control unit memory (radio station presets, Powertrain Control Module and other control units). When the battery is disconnected, the power that maintains these systems is cut. So, before you disconnect the battery, please note that on a vehicle with power door locks, it's a wise precaution to remove the key from the ignition and to keep it with you, so that it does not get locked inside if the power door locks should engage accidentally when the battery is reconnected!

Devices known as "memory-savers" can be used to avoid some of these problems. Precise details vary according to the device used. The typical memory saver is plugged into the cigarette lighter and is connected to a spare battery. Then the vehicle battery can be disconnected from the electrical system. The memory saver will provide sufficient current to maintain audio unit security codes, PCM memory, etc. and will provide power to always hot circuits such as the clock and radio memory circuits. **Warning:** *Some memory savers deliver a considerable amount of current in order to keep vehicle systems operational after the main battery is disconnected. If you're using a memory saver, make sure that the circuit concerned is actually open before servicing it.* **Warning:** *If you're going to work near any of the airbag system components, the battery **MUST** be disconnected and a memory saver must **NOT** be used. If a memory saver is used, power will be supplied to the airbag, which means that it could accidentally deploy and cause serious personal injury.*

## Disconnection

To disconnect the battery for service procedures requiring power to be cut from the vehicle, loosen the cable end bolt and disconnect the cable from the negative battery terminal. Isolate the cable end to prevent it from coming into accidental contact with the battery terminal.

## Reconnection

After reconnecting the battery, several of the vehicle's electronic control modules will require time to relearn certain values. This will normally be complete within a normal driving pattern of 15 miles (approximately). In addition, several systems may require re-initialization as follows:

### Sunroof

- A. With the battery reconnected and the ignition On, press the sunroof operating switch into the tilt position and hold it there.
- B. Once the sunroof has reached the fully-tilted position, hold the switch in that position for approximately 20 seconds. Initialization is complete when the sunroof briefly lifts at the rear again.

### Electric windows

- A. Operate the button to fully close the window, then continue to hold the button for at least 1 second to normalize the auto stop function.

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