

JAGUAR

2002-08 X-Type

PRECAUTIONS

Warning: Batteries produce explosive gases that may cause personal injury. Do not expose the battery to flame or sparks. When charging or working near a battery, wear protective clothing and eye protectors. Always provide adequate ventilation. Do not smoke when working near batteries. Failure to follow these instructions may result in personal injury.

Warning: Batteries contain sulfuric acid, so avoid contact with skin, eyes and clothing. Shield your eyes when working near the battery to protect against possible contact with acid solution. In case of contact with the skin or eyes, flush immediately for a minimum of fifteen minutes and seek prompt medical attention. If swallowed, call a physician immediately. Failure to follow these instructions may result in personal injury.

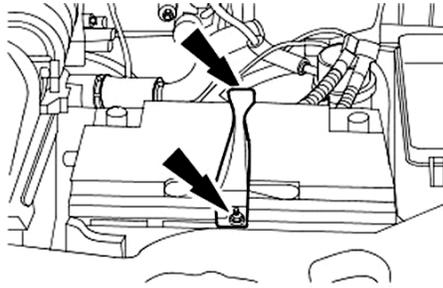
Warning: Ensure the engine is not running and all electrical systems are off before disconnecting or connecting the battery ground cable. Failure to follow these instructions may result in damage to the electrical system.

Before disconnecting the battery, ensure that no data is required from the Powertrain Control Module (PCM), as battery cable disconnection will erase any fault codes and idle/drive values held in the Keep Alive Memory (KAM). It is not required to disconnect or remove electronic control modules.

When the battery is disconnected, all previous climate control assembly settings and fault codes will be lost. It is required to record any settings or fault codes before battery disconnection.

BATTERY Removal

This vehicle is equipped with a 12 volt (DC) high cold cranking amperage type battery. Battery terminals are different sizes to prevent reverse connection. Always disconnect the ground cable from the battery first, and connect it last.



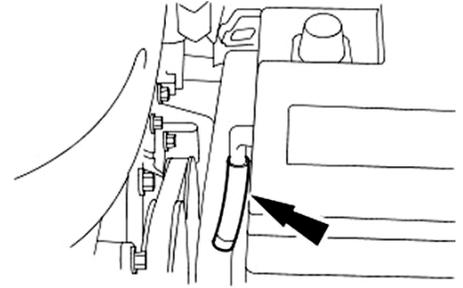
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Fig. 1 Battery hold down removal

1. Obtain and record audio unit keycode and preset radio frequencies.
2. Remove battery cover.
3. Disconnect battery ground cable.
4. Disconnect battery positive cable.
5. Remove mounting nuts and battery hold down bracket, **Fig. 1**.
6. Detach battery vent tube, **Fig. 2**.
7. Remove battery.
8. Remove battery heat shield.

Installation

1. Install battery heat shield.
2. Install battery.
3. Detach battery vent tube.
4. Install battery hold down bracket.
5. Connect battery positive cable first, then connect battery ground cable.
6. **Torque** battery cable clamp nuts to 35 inch lbs.
7. Ensure that battery clamps are correctly positioned on terminals when installed, **Fig. 3**.
8. Install battery cover.
9. Enter audio unit keycode and preset radio frequencies.
10. Reset clock to correct time.
11. When the battery has been disconnected and connected, settings for windows "one-touch" facility and anti-trap facility will have been erased. After connecting, it is required to initialize each door window motor separately to operate "one-touch" up function. Initialize door window motors as follows:
 - a. Operate window control switch until door window glass is in fully closed position, then continue to operate window control switch for a further



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Fig. 2 Battery vent tube removal

- two seconds.
 - Release window control switch.
 - Operate window control switch in closed position and continue to operate window control switch for an additional two seconds.
 - Operate window control switch until door window glass is in fully open position.
 - If door window motor initialization has been completed correctly, when window control switch is operated, door window glass should move to fully closed position automatically. If door window glass does not fully close automatically, repeat complete procedure.
 - Repeat door window motor initialization for each door window motor.
12. When battery has been disconnected and connected, stored idle and drive values contained within Engine Control Module (ECM) will have been erased. ECM must relearn idle and drive values. Relearn ECM fueling adaptations as follows:
 - a. Start engine and allow to idle until engine reaches normal operating temperature.
 - b. Allow to idle for a further three minutes, minimum.
 - c. Drive vehicle with air conditioning "OFF" for at least one minute in 3rd gear between 23-29 mph, 4th gear between 40-45 mph, and 4th gear between 50-54 mph on a level road using a constant throttle.
 - d. Bring vehicle to rest, and allow to idle for one minute.

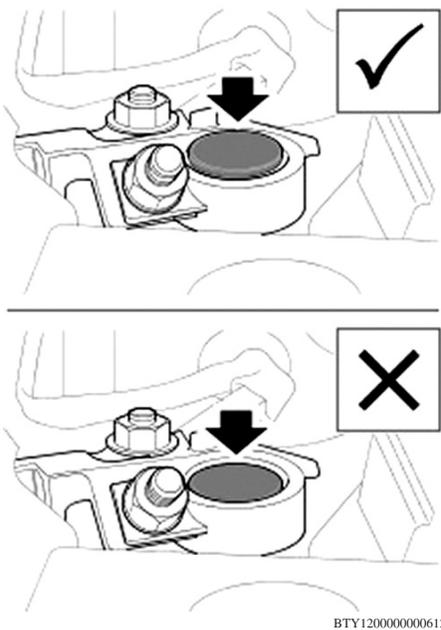


Fig. 3 Battery terminal installation

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