

# JAGUAR

## 2003-09 XJ

### 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 of the 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) 90Ah 680CCA type battery. Battery terminals are different sizes to prevent reverse connection. Always disconnect the ground cable from the battery first and connect it last.

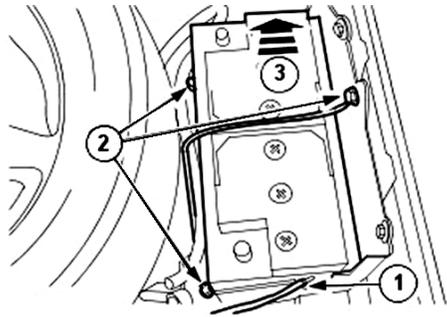
1. Obtain and record audio unit keycode and preset radio frequencies.
2. Remove fire extinguisher and luggage compartment floor covering.
3. Remove spare wheel cover retaining clamp, and remove spare wheel cover.
4. Disconnect battery ground cable.
5. Disconnect battery positive cable.
6. Detach battery vent tube (1), **Fig. 1**.
7. Remove mounting nuts (2), and remove battery hold down clamps, **Fig. 1**.
8. Remove battery.

### Installation

1. Install battery.
2. Install battery hold down clamps.
3. **Torque** battery hold down clamp mounting nuts to 115 inch lbs.
4. Attach battery vent tube. Verify that battery vent tube is not kinked or trapped and that it passes through guides and clips in battery tray as well as through grommet in floor pan.
5. Connect battery positive cable first, then connect battery ground cable.
6. Verify that battery clamps are correctly positioned on terminals when installed, **Fig. 2**.
7. **Torque** battery cable clamp nuts to 35 inch lbs.
8. Install spare wheel cover.
9. Install spare wheel cover retaining clamp.
10. Install luggage compartment floor covering.
11. Install fire extinguisher.
12. Reset audio unit and climate control assembly to original settings.
13. Following connection of battery, engine should be allowed to idle as stored idle and drive values contained within Engine Control Module (ECM)

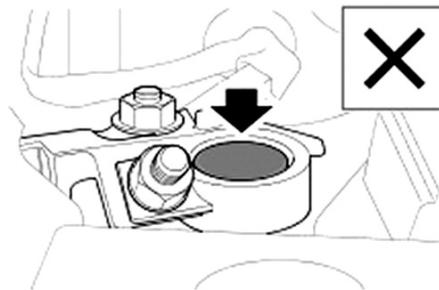
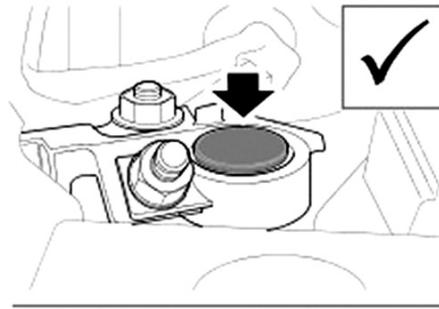
have been lost. Relearn ECM fueling adaptations as follows:

- a. Start engine and allow to idle until engine reaches normal operating temperature.
  - b. Turn engine "OFF."
  - c. Restart engine and allow to idle for approximately two minutes. This will allow ECM to learn idle values.
  - d. Drive vehicle for approximately five miles of varied driving to enable ECM to complete its learning strategy.
14. When battery has been disconnected and connected, settings for window "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, continue to operate window control switch for a further two seconds.
  - b. Release window control switch.
  - c. Operate window control switch in closed position, and continue to operate window control switch for an additional two seconds.
  - d. Operate window control switch until door window glass is in fully open position.
  - e. 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.
  - f. Repeat door window motor initialization for each door window motor.



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**Fig. 1 Battery removal**



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**Fig. 2 Battery terminal installation**

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