

MAZDA 2006-10 5

PRECAUTIONS

Warning: Hydrogen gas is produced during normal battery operation. A battery-related explosion can cause serious injury. Keep all flames (including cigarettes), heat, and sparks away from the top and surrounding area of open battery cells.

Warning: Since battery acid is toxic and corrosive, be careful when handling the battery and be careful not to allow it to contact clothing or the vehicle. In case battery acid contacts skin, eyes, or clothing, flush it immediately with running water. If the acid gets in the eyes, flush with water for more than 15 minutes and get prompt medical attention.

Before beginning any work, turn the ignition switch to "LOCK" position, then disconnect battery ground cable. Wait for more than one minute to allow the backup power supply of the SAS control module to deplete its stored power.

Disconnecting the battery cable will delete the memories of the clock, audio, DTCs, etc. Therefore, it is required to verify those memories before disconnecting the cable. If the battery had been disconnected during vehicle maintenance or for other reasons, the window will not fully close automatically. Carry out the power window switch initial setting for each window.

During removal or installation of battery cover, it is suspected that using excessive force causes breakage at the clips. Carefully release the hooks on the battery tray/cover, or the battery tray/cover may break.

BATTERY

Removal

1. Verify that ignition switch is "OFF," key has been removed and all doors are closed.
2. Remove battery cover as follows:
 - a. To prevent damage to clips, remove battery cover one side at a time. When pulling clips, do not apply excessive force to a clip using screwdriver or pair of pliers, **Fig. 1**.
 - b. Pull lefthand clip in outward direction, and disengage battery cover tabs.
 - c. Pull righthand clip in outward direction, and disengage battery cover tabs.

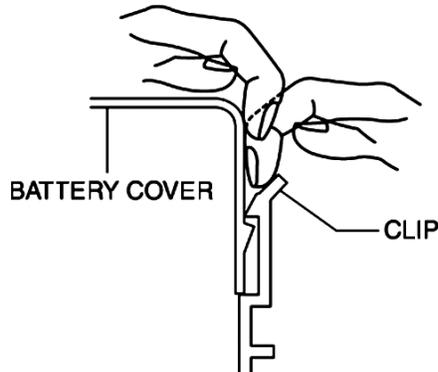


Fig. 1 Battery cover removal (Part 1 of 2)

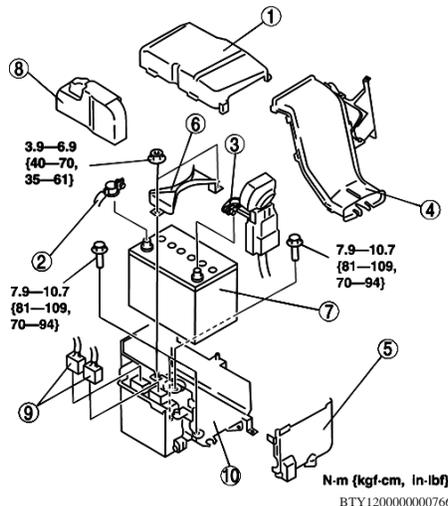


Fig. 2 Battery removal

3. Remove battery ground cable (2), **Fig. 2**.
4. Remove positive battery cable (3), **Fig. 2**.
5. Remove battery duct (4), **Fig. 2**.
6. Remove battery box (5), **Fig. 2**.
7. Remove battery clamp (6), **Fig. 2**.
8. Remove battery (7), **Fig. 2**.

Installation

1. Install battery.
2. Install battery clamp. Assemble battery clamp so that arrow on it is pointed toward front of vehicle, **Fig. 3**.

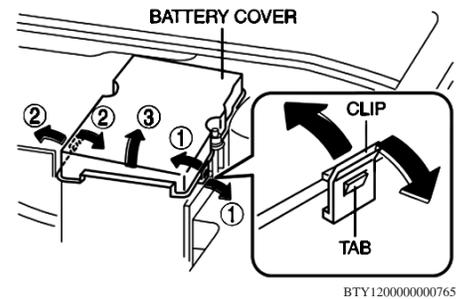


Fig. 1 Battery cover removal (Part 2 of 2)

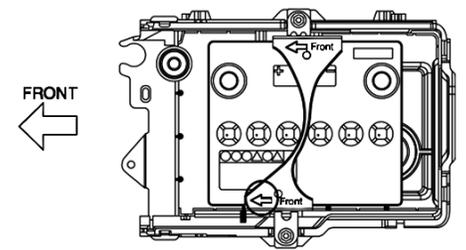


Fig. 3 Battery clamp installation

3. Torque battery clamp nuts to 35-61 inch lbs.
4. Install battery box. Assemble with battery box hooks (e) aligned with battery tray holes at two points, **Fig. 4**.
5. Install battery duct. Match mark of shroud panel and notch in battery duct, and install battery duct to shroud panel, **Fig. 5**.
6. Install positive battery cable.
7. Install battery ground cable.
8. Install battery cover as follows:
 - a. Install battery duct between battery cover and battery box, **Fig. 6**.
 - b. Install with battery cover hooks (a) aligned with battery tray holes at two points, **Fig. 6**.
 - c. Install with battery cover hooks (d) aligned with battery tray flange at four points, **Fig. 6**.
 - d. Set battery cover to battery tray clips (c) at two points, **Fig. 6**.

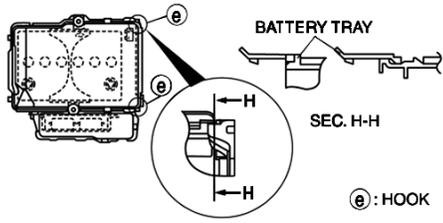


Fig. 4 Battery box installation

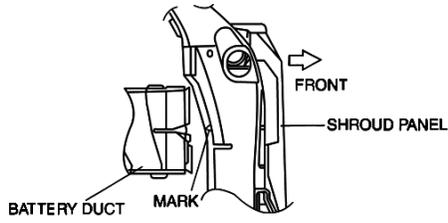


Fig. 5 Battery duct installation

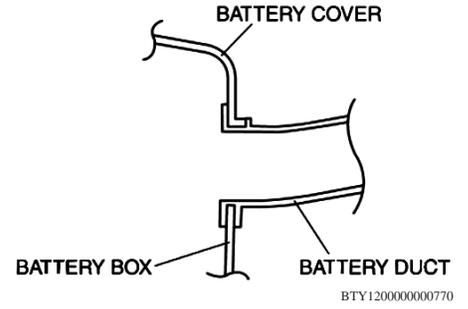


Fig. 6 Battery cover installation (Part 1 of 4)

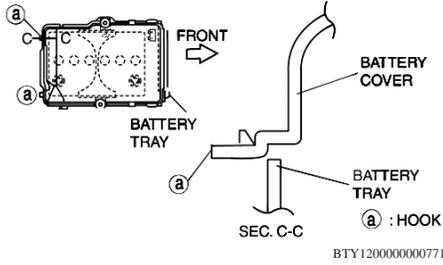


Fig. 6 Battery cover installation (Part 2 of 4)

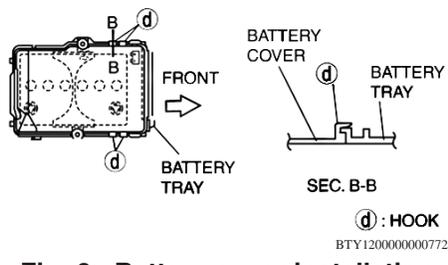


Fig. 6 Battery cover installation (Part 3 of 4)

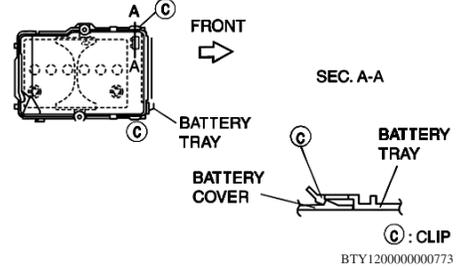


Fig. 6 Battery cover installation (Part 4 of 4)

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