

MAZDA 2004-11 RX-8

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 eyes, flush with water for more than 15 minutes and get prompt medical attention.

Improper battery installation may reduce or eliminate airflow to battery. Installing a larger battery than specified may restrict airflow and reduce battery life or performance.

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, and DTCs, etc. Therefore, it is required to verify those memories before disconnecting the cable.

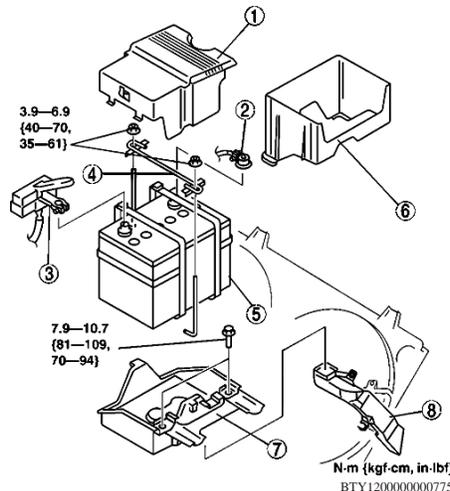


Fig. 1 Battery removal

For vehicles with DSC, if battery ground cable is disconnected, the stored initial position of the steering angle sensor will be cleared and the DSC will not operate properly, making the vehicle unsafe to drive. Perform the steering angle sensor initialization procedure after connecting the battery ground cable.

BATTERY Removal

1. Remove engine cover.

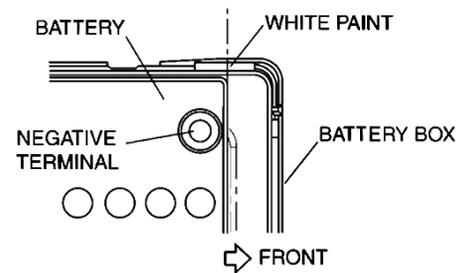


Fig. 2 Battery installation

2. Remove battery cover (1). Pull up two tabs on rear, remove tab on front, and remove battery cover (1), **Fig. 1**.
3. Remove battery ground cable (2), **Fig. 1**.
4. Remove positive battery cable (3), **Fig. 1**.
5. Remove battery clamp (4), **Fig. 1**.
6. Remove battery (5), **Fig. 1**.

Installation

1. Install 50D20L and 55D23L battery within area of white paint mark on battery box, **Fig. 2**.
2. Install battery clamp.
3. **Torque** battery clamp nuts to 35-61 inch lbs.
4. Install positive battery cable.
5. Install battery ground cable.
6. Install battery cover.
7. Install engine cover.

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