

BATTERY REMOVAL/INSTALLATION [SKYACTIV-G 2.0]

id0117h5800500

Operation After Replacing Battery (Vehicle With i-stop)

Note

- If the battery charge/discharge flow (number of times battery can operate) exceeds the specification, a DTC is recorded and the i-stop warning light (amber) flashes. If the battery charge/discharge flow (number of times battery can operate) exceeds the specification, replace the battery with a new one.
- When replacing the battery, perform the following procedure: When replacing the PCM simultaneously, perform the PCM configuration first. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0].) (See PCM CONFIGURATION (USING READ/WRITE FUNCTION) [SKYACTIV-G 2.0].) (See PCM CONFIGURATION (USING AS-BUILT DATA) [SKYACTIV-G 2.0].)

Without TFT LCD display

| Step | Action |
|------|--|
| 1 | Switch the ignition ON (engine off). |
| 2 | Shift the selector lever to the N position. |
| 3 | Perform the following work with the brake pedal depressed. <ol style="list-style-type: none">1. Depress the accelerator pedal for 5 s or more.2. Verify that the charging system warning light and the master warning light flash.3. Depress and release the accelerator pedal 3 times.4. Verify that the charging system warning light illuminates and the master warning light turns off. |
| 4 | Switch the ignition off and disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0].) |
| 5 | Verifying battery condition initialization setting (i-stop setting). (See BATTERY CONDITION INITIALIZATION SETTING (i-stop SETTING) [SKYACTIV-G 2.0].) |

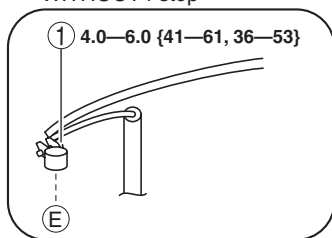
With TFT LCD display

| Step | Action |
|------|---|
| 1 | Close the all doors. |
| 2 | Switch the ignition ON (engine off). |
| 3 | If a warning message is displayed in the LCD display, clear the screen using the INFO switch and then go to the next step. |
| 4 | Shift the selector lever to the N position. |
| 5 | Perform the following work with the brake pedal depressed. <ol style="list-style-type: none">1. Depress the accelerator pedal for 5 s or more.2. Verify that a warning message (master warning light) on the LCD flashes.3. Depress and release the accelerator pedal 3 times.4. Verify that a warning message (master warning light) on the LCD turn off. |
| 6 | Switch the ignition off and disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0].) |
| 7 | Verifying battery condition initialization setting (i-stop setting). (See BATTERY CONDITION INITIALIZATION SETTING (i-stop SETTING) [SKYACTIV-G 2.0].) |

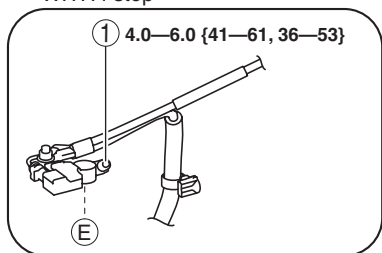
Battery Removal/Installation

1. Remove in the order indicated in the table.
2. Install in the reverse order of removal.

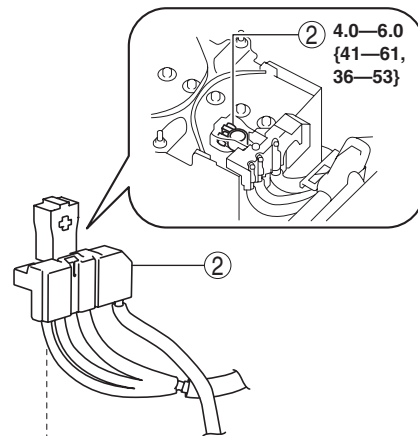
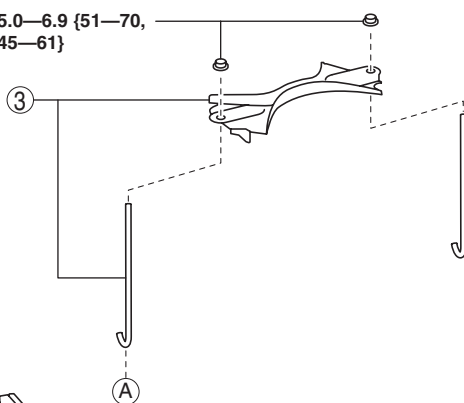
WITHOUT i-stop



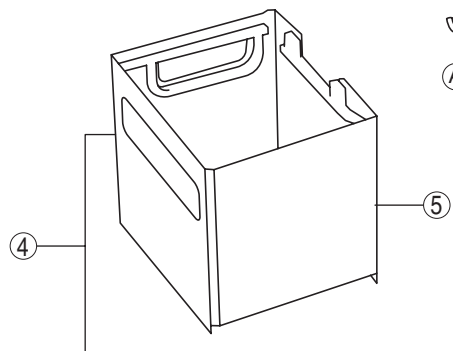
WITH i-stop



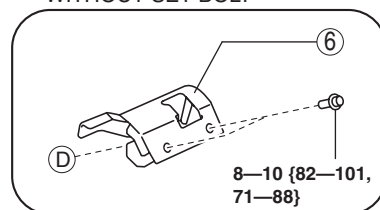
5.0—6.9 {51—70,
45—61}



4.0—6.0
{41—61,
36—53}

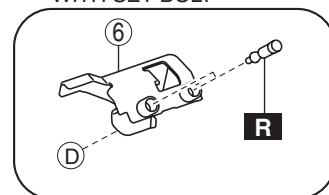


WITHOUT SET BOLT

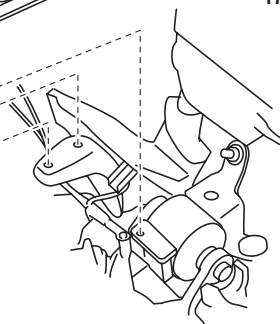
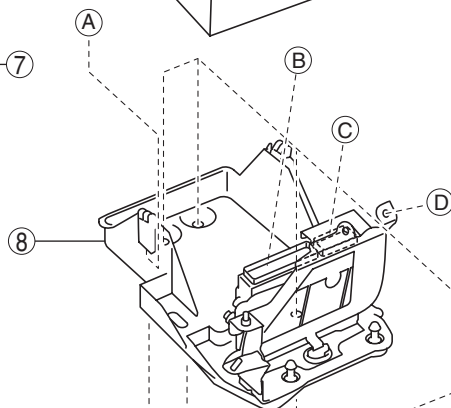
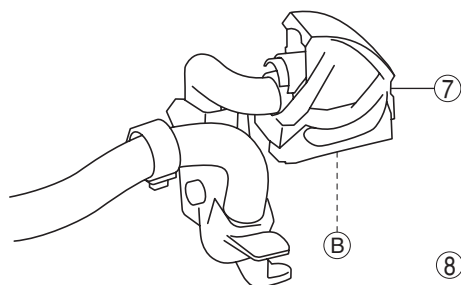


8—10 {82—101,
71—88}

WITH SET BOLT



22—30 N·m
{2.3—3.0 kgf·m,
17—22 ft·lbf}



N·m {kgf·cm, in·lbf}

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1 Negative battery cable
(See NEGATIVE BATTERY CABLE
DISCONNECTION/CONNECTION [SKYACTIV-G
2.0])
(See NEGATIVE BATTERY CABLE
DISCONNECTION/CONNECTION [SKYACTIV-G
2.0 (WITHOUT i-stop)])

2 Positive battery cable
3 Battery clamp
4 Battery, battery box
(See Battery, battery box removal Note.)

| | |
|---|--|
| 5 | Battery box (See Battery box installation note.) |
| 6 | PCM cover (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0]) |
| 7 | PCM connector (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0]) |

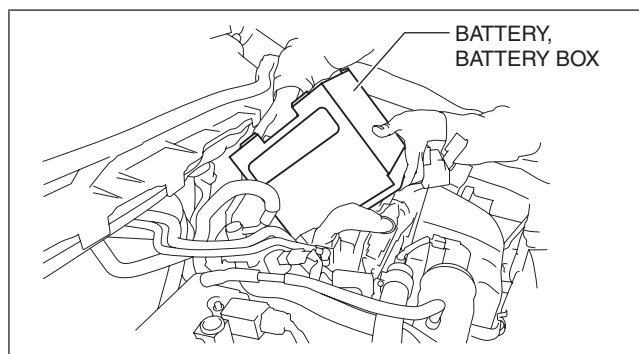
| | |
|---|--|
| 8 | Battery tray and PCM component (See Battery tray and PCM component Removal note.) |
|---|--|

Battery, battery box removal Note

Caution

- When removing the battery, do not place the battery on the PCM connector or hit it with the battery. Otherwise, the PCM or PCM connector could be damaged.

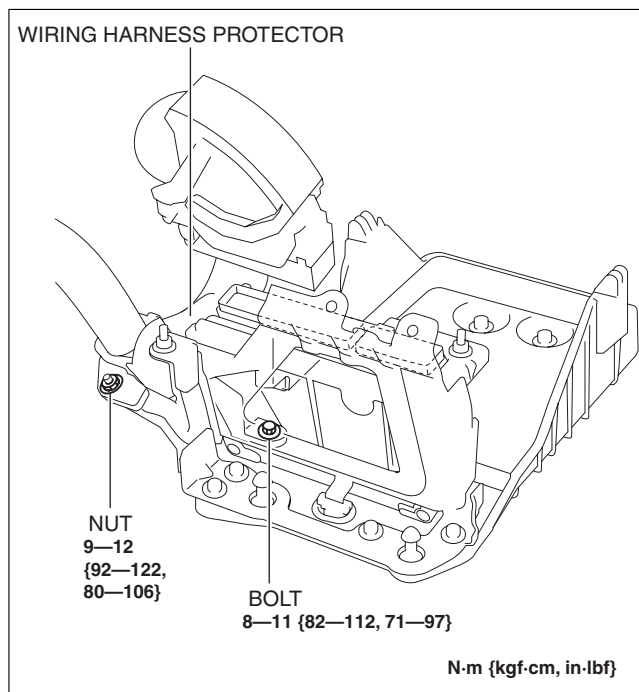
- Remove the battery with the battery box while the battery is positioned at an angle as shown in the figure.



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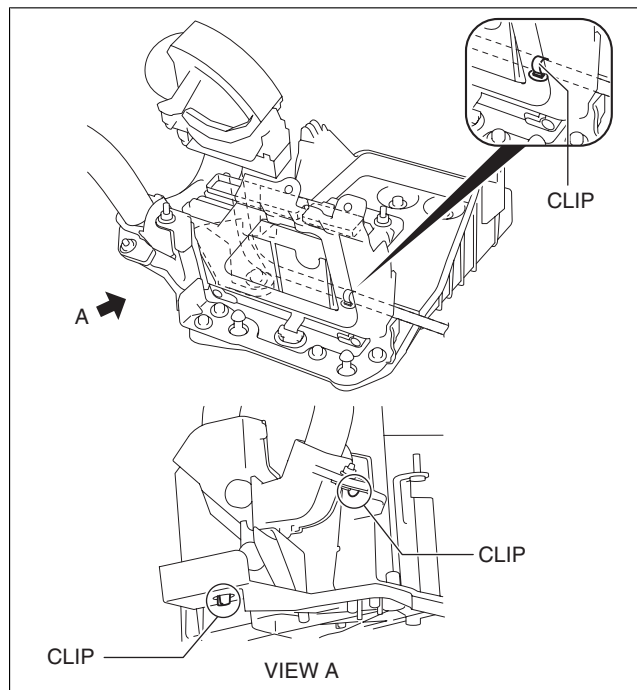
Battery tray and PCM component Removal note

- Remove the air cleaner, air hose and fresh air duct component. (See INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G 2.0].)
- Remove the bolt and nut securing the wiring harness protector to the battery tray.
- Remove three battery tray bolts so that the battery tray is free to move.



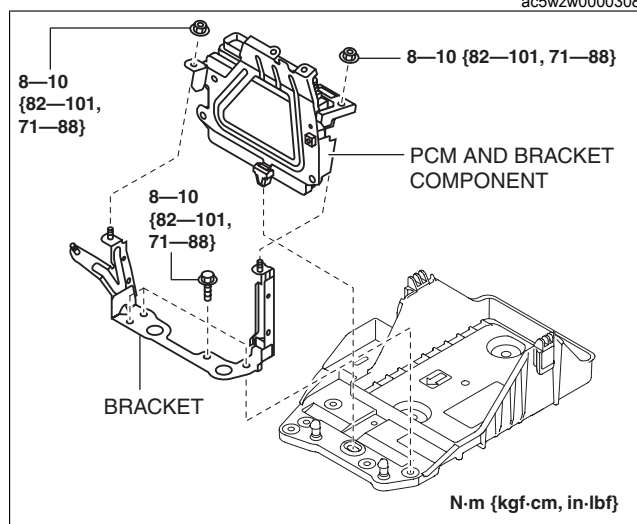
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4. Release the wiring harness clips at the three locations shown in the figure and remove the battery tray and PCM component.



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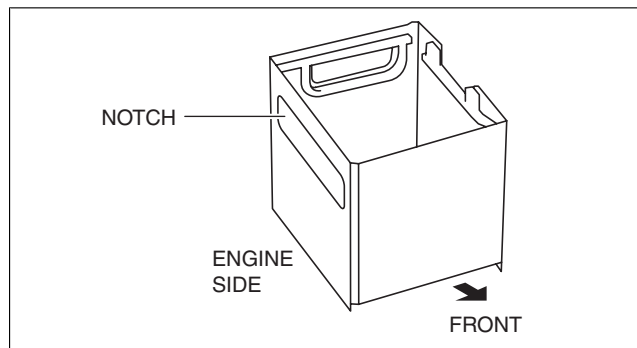
5. When replacing the battery tray with a new one, perform the following procedure:
 - (1) Remove the PCM and bracket component.
 - (2) Remove the bracket.



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Battery box installation note

1. Install the battery box so that the side with the larger notch faces toward the engine side.



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