

## BATTERY REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

id0117i0800500

### 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, SKYACTIV-G 2.5].) (See PCM CONFIGURATION (USING READ/WRITE FUNCTION) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See PCM CONFIGURATION (USING AS-BUILT DATA) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)

#### 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"><li>1. Depress the accelerator pedal for 5 s or more.</li><li>2. Verify that the charging system warning light and the master warning light flash.</li><li>3. Depress and release the accelerator pedal 3 times.</li><li>4. Verify that the charging system warning light illuminates and the master warning light turns off.</li></ol>
4	Switch the ignition off and disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
5	Verifying battery condition initialization setting (i-stop setting). (See BATTERY CONDITION INITIALIZATION SETTING (i-stop SETTING) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)

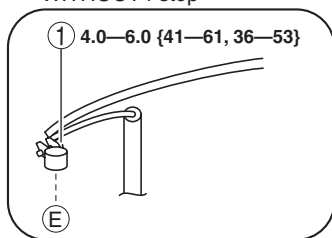
#### With TFT LCD display

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"><li>1. Depress the accelerator pedal for 5 s or more.</li><li>2. Verify that a warning message (master warning light) on the LCD flashes.</li><li>3. Depress and release the accelerator pedal 3 times.</li><li>4. Verify that a warning message (master warning light) on the LCD turn off.</li></ol>
6	Switch the ignition off and disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
7	Verifying battery condition initialization setting (i-stop setting). (See BATTERY CONDITION INITIALIZATION SETTING (i-stop SETTING) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)

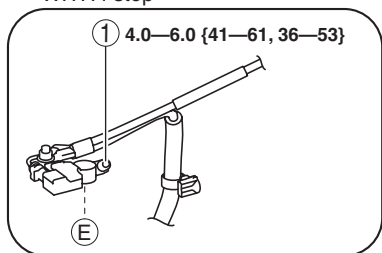
#### Battery Removal/Installation

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

WITHOUT i-stop

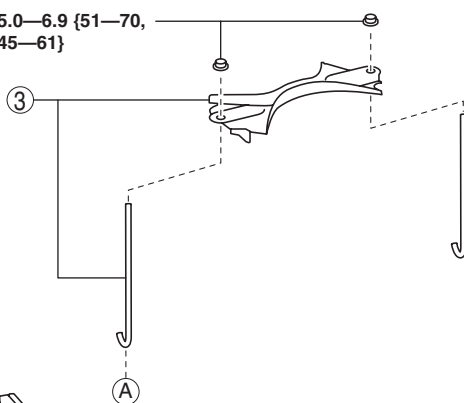


WITH i-stop



5.0—6.9 {51—70,  
45—61}

3

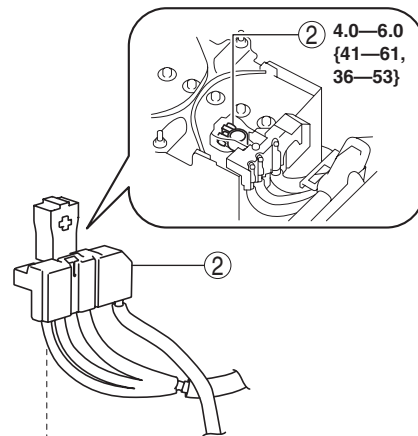
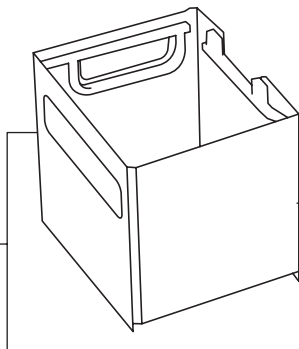


A

E

5

4

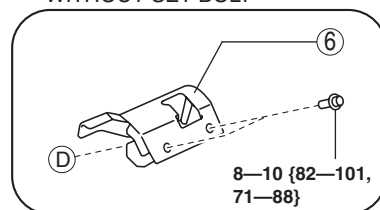


2 4.0—6.0  
{41—61,  
36—53}

7

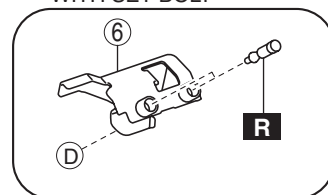
C

WITHOUT SET BOLT

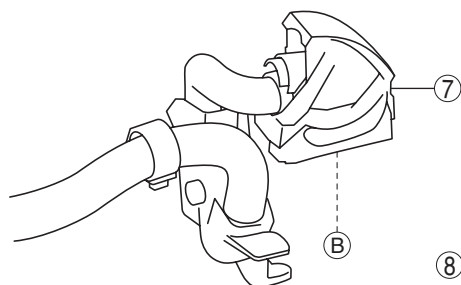


8—10 {82—101,  
71—88}

WITH SET BOLT



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



A

B

C

D

8

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

N·m {kgf·cm, in·lbf}

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1 Negative battery cable  
(See NEGATIVE BATTERY CABLE  
DISCONNECTION/CONNECTION [SKYACTIV-G  
2.0, SKYACTIV-G 2.5].)  
(See NEGATIVE BATTERY CABLE  
DISCONNECTION/CONNECTION [SKYACTIV-G  
2.0, SKYACTIV-G 2.5 (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, SKYACTIV-G 2.5].)
7	PCM connector (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)

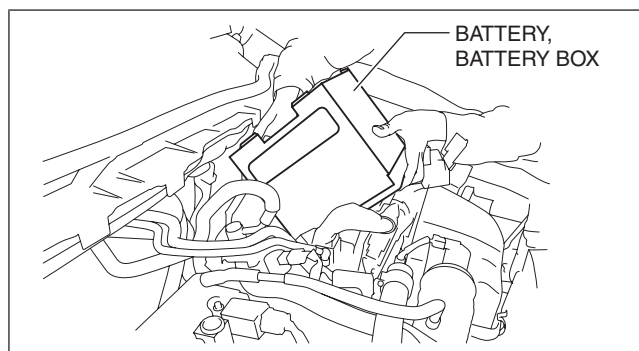
8	Battery tray and PCM component (See Battery tray and PCM component removal note.)
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## Battery, battery box removal Note

### 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.

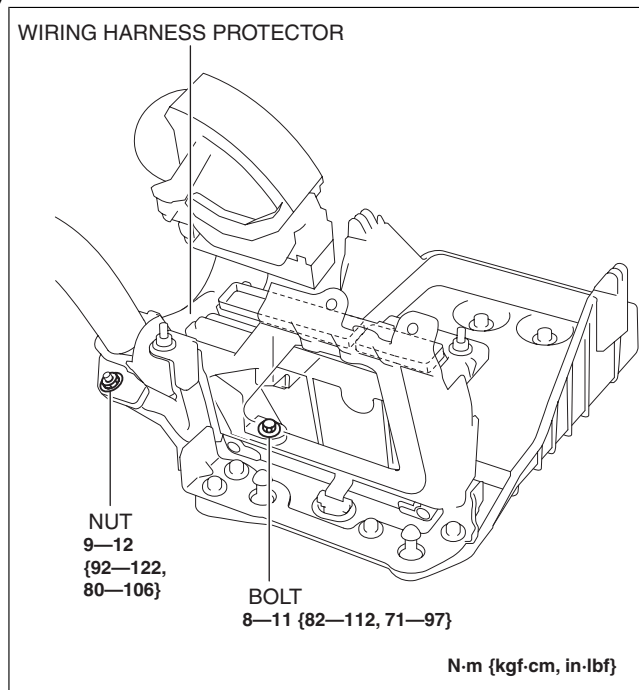
- Remove the battery with the battery box while the battery is positioned at an angle as shown in the figure.



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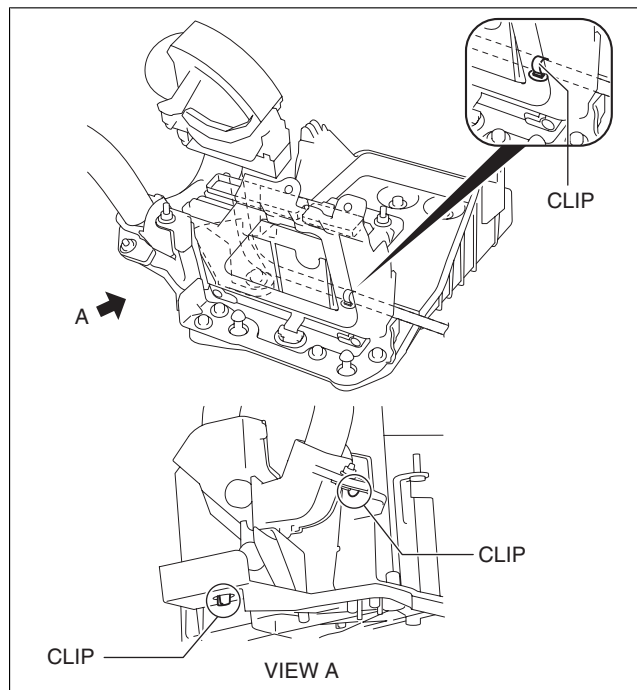
## Battery tray and PCM component removal note

- Remove the air cleaner, air hose and fresh air duct component. (See INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
- Remove the bolt and nut securing the wiring harness protector to the battery tray.
- Remove the three battery tray bolts so that the battery tray is free to move.



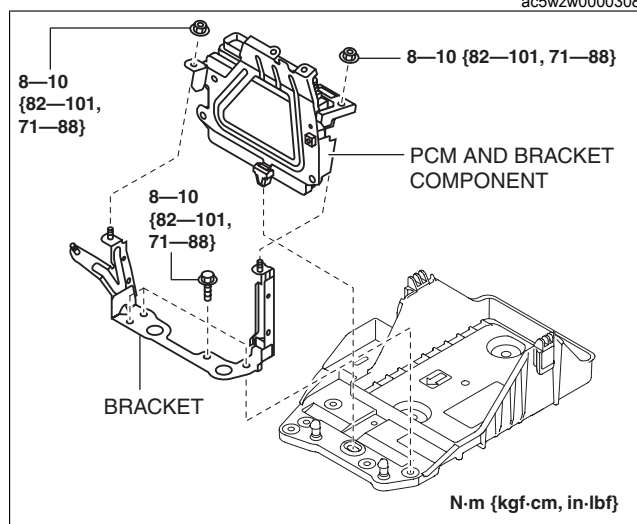
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4. Release the wiring harness clips at the three locations shown in the figure and remove the battery tray and PCM component.



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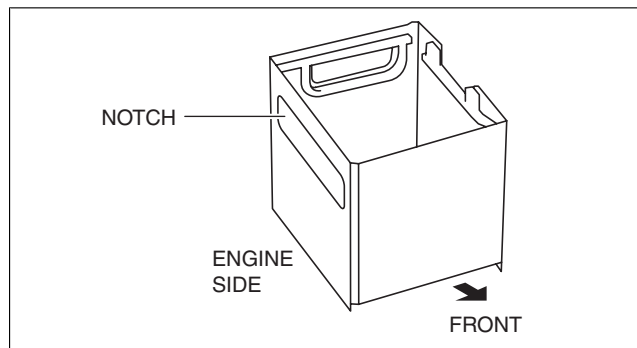
5. When replacing the battery tray with a new one, perform the following procedure:
  - (1) Remove the PCM and bracket component.
  - (2) Remove the bracket.



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#### Battery box installation note

1. Install the battery box so that the side with the larger notch is pointed at the engine.



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