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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [03/2023 - ]
<b>Title:</b> HYBRID / BATTERY CONTROL: HV BATTERY (for PHEV Model): AIRTIGHT INSPECTION; 2023 - 2024 MY Prius Prime [03/2023 - ]		

## AIRTIGHT INSPECTION

### CAUTION / NOTICE / HINT

#### NOTICE:

- When the No. 1 traction battery cover has been removed, use the following procedure to perform a component airtightness check.

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- If the vehicle has been subjected to a strong impact, use the following procedure to perform an on-vehicle airtightness check.

[Click here](#) INFO

## PROCEDURE

### 1. CHECK FOR AIRTIGHTNESS (COMPONENT)

(a) Using SST, cover each of the connector portions.

**SST: 09893-10090**

**SST: 09893-10100**

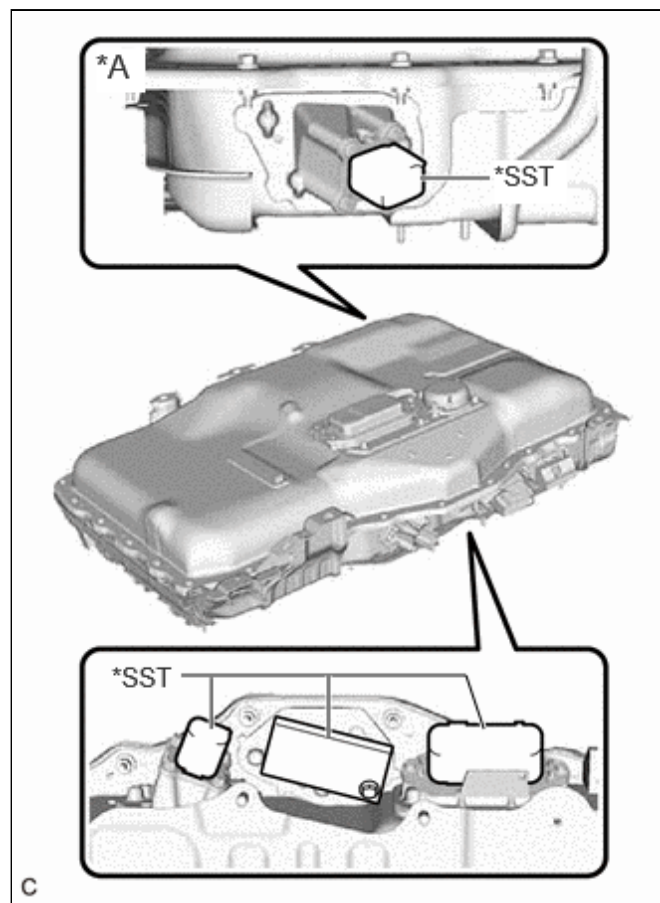
**SST: 09893-42090**

#### HINT:

See Service Bulletin for the S-3103 INFORMATION ABOUT NEW SST FOR PRIUS PHEV AND PRIUS PRIME

#### Torque:

**7.5 N·m {76 kgf·cm, 66 in·lbf}**



\*A w/ Solar Charging System

(b) w/ Solar Charging System:

(1) Using SST, cover the connector portion.

**SST: 09893-10090**

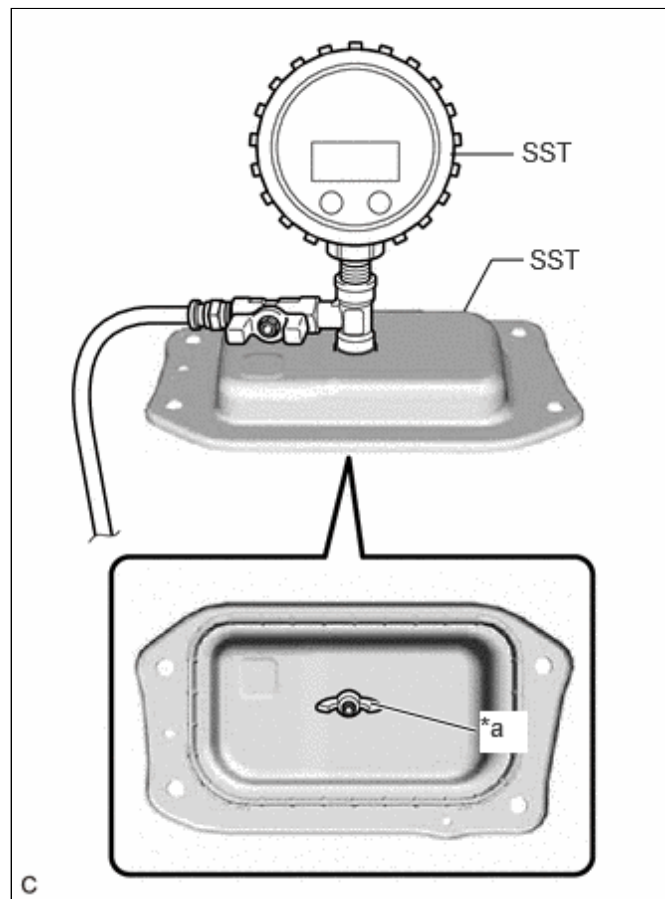
(c) Install SST with the wing bolt as shown in the illustration.

**SST: 09893-10010**

**SST: 09893-47010**

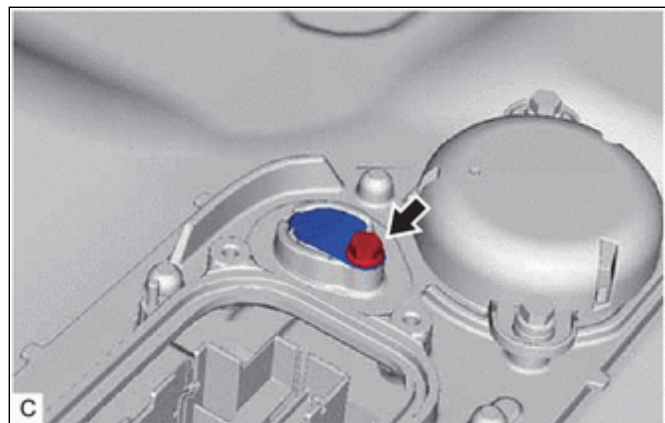
09893-04010

09893-04020



*a	Wing Bolt
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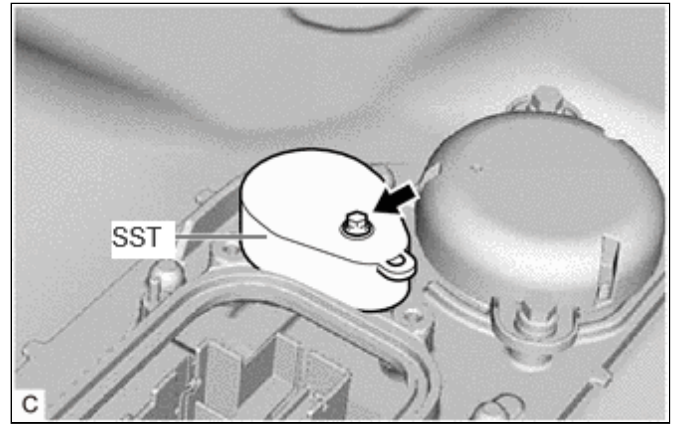
(d) Remove the bolt and cover from the HV supply battery sub-assembly.



(e) Install SST to the HV supply battery sub-assembly with the bolt.

**Torque:**

**7.5 N·m {76 kgf·cm, 6 ft·lbf}**



(f) Install SST to the HV supply battery sub-assembly with the 4 bolts.

**Torque:**

**12.2 N·m {124 kgf·cm, 9 ft·lbf}**

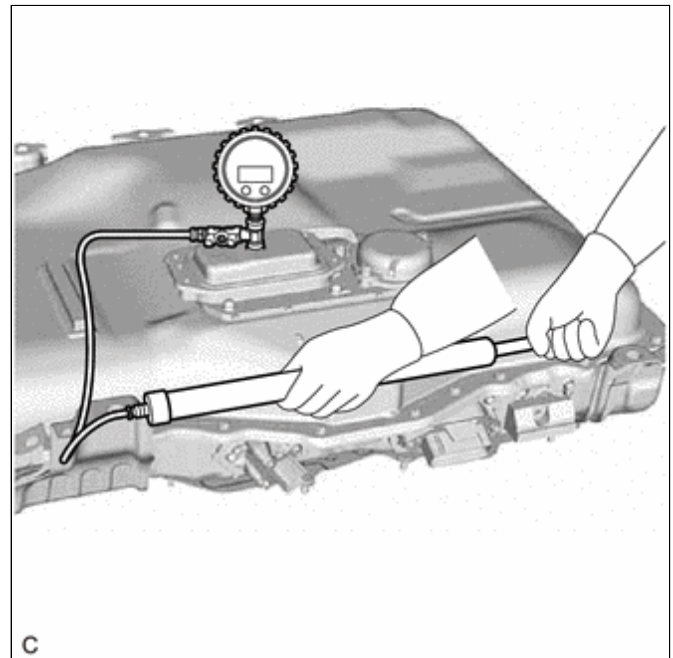
**NOTICE:**

- Visually check the mounting surface of the No. 2 traction battery cover for foreign matter and dust before mounting.
- Do not use compressed air or solvents to clean.

(g) Pump the pump as shown in the illustration until SST gauge pressure becomes 2.0 kPa.

**HINT:**

The pressure should reach 2.0 kPa after approximately 20 pumps.



(h) Close the valve, wait 20 minutes, and then check that the gauge pressure has not decreased by more than the specified value.

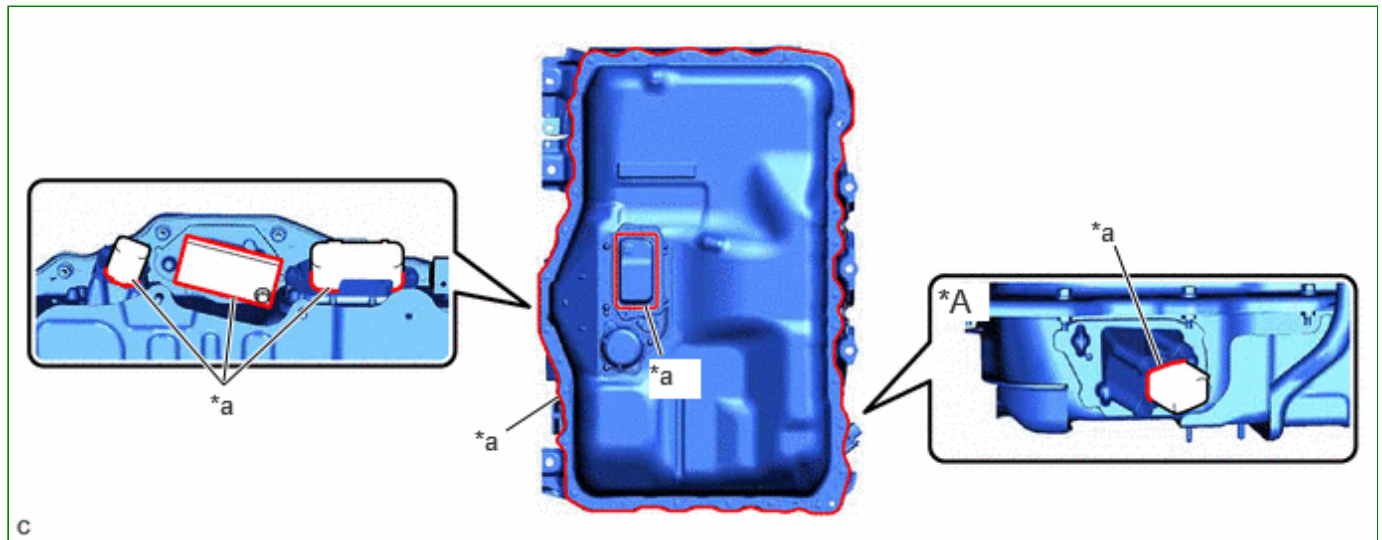
OK:

After waiting for 20 minutes, pressure has not decreased by 0.1 kPa or more.

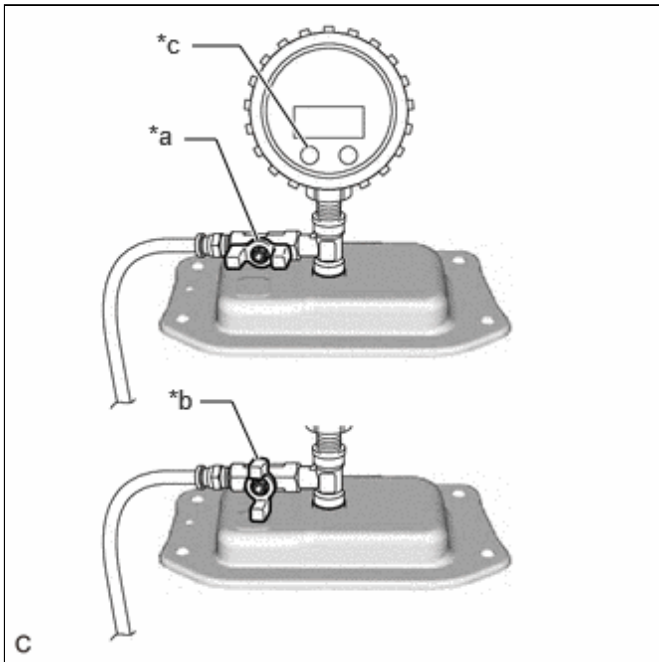
**HINT:**

- If the gauge pressure display has disappeared, press the power button and check the gauge pressure.

- If the pressure has decreased, apply soapy water to the areas shown in the illustration to identify the location of the leak



*A	w/ Solar Charging System	-	-
*a	Apply Area	-	-



*a	Valve Open
*b	Valve Close
*c	Power Button

- (i) Remove the 4 bolts and SST from the HV supply battery sub-assembly.
- (j) Remove the bolt and SST from the HV supply battery sub-assembly.
- (k) Remove SST from each of the connector portions.

**2. CHECK FOR AIRTIGHTNESS (ON-VEHICLE)**

- (a) Remove the service plug grip.

Click here [INFO](#)

- (b) Check the terminal voltage.

Click here [INFO](#)

**HINT:**

When performing Check Terminal Voltage when referring to the procedure to remove the HV battery, make sure to reinstall the components that were removed during the Check Terminal Voltage procedure.

(c) Remove the front exhaust pipe assembly.

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(d) Remove the battery box cover.

Click here [INFO](#)

(e) Remove the battery box panel sub-assembly.

Click here [INFO](#)

(f) Remove the No. 1 center floor heat insulator sub-assembly.

Click here [INFO](#)

(g) Disconnect the floor under wire.

Click here [INFO](#)

(h) Connect SST to the disconnected openings of the HV floor under wire and HV battery charger wire, and cover them with SST.

**SST: 09893-10090**

**SST: 09893-10100**

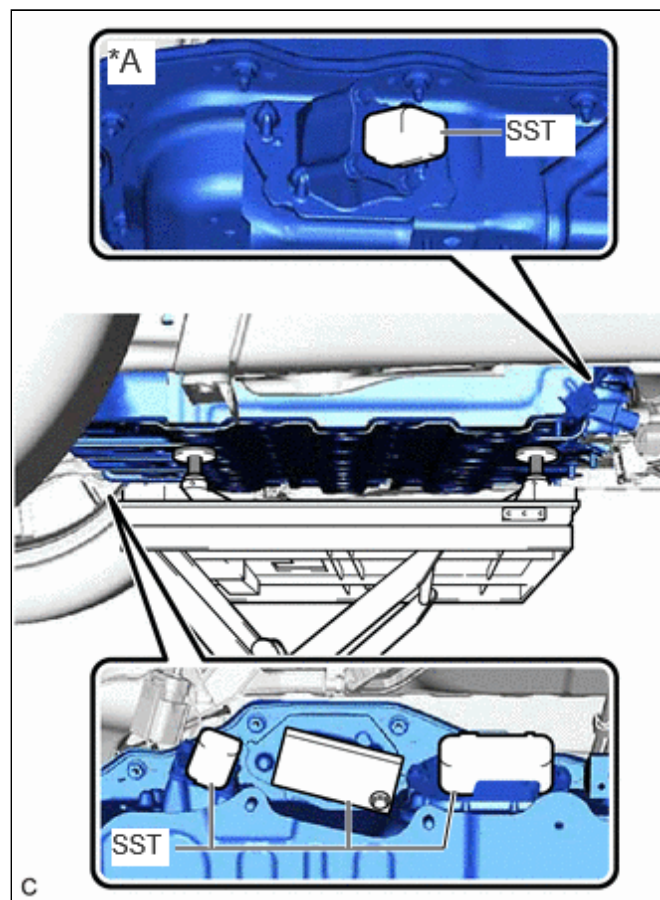
**SST: 09893-42090**

**HINT:**

See Service Bulletin for the S-3103 INFORMATION ABOUT NEW SST FOR PRIUS PHEV AND PRIUS PRIME

**Torque:**

**7.5 N·m {76 kgf·cm, 66 in·lbf}**



\*A w/ Solar Charging System

(i) w/ Solar Charging System:

(1) Connect SST to the disconnected openings of the HV floor under wire, and cover them with SST.

**SST: 09893-10090**

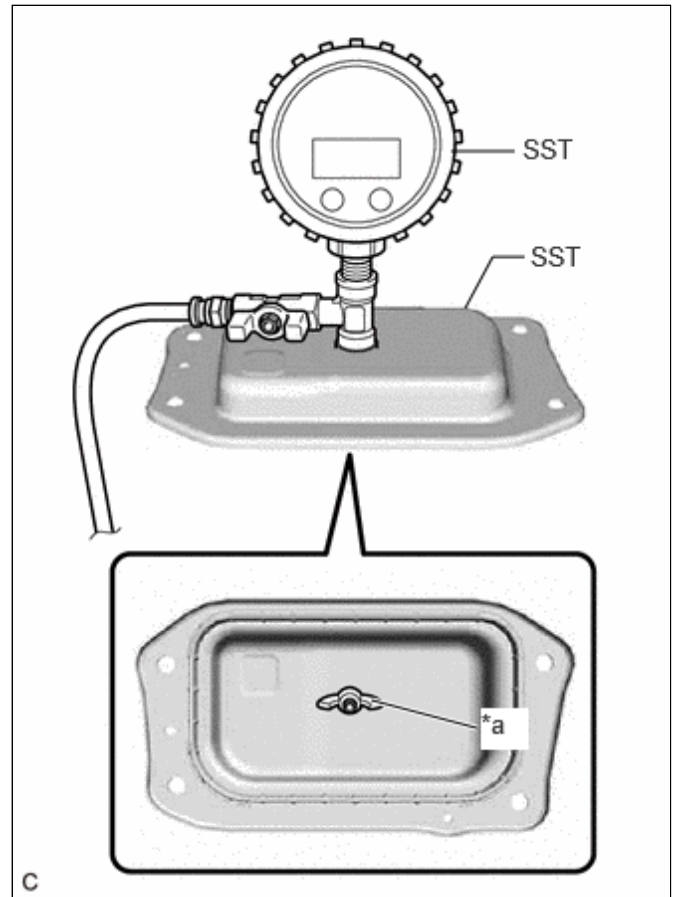
- (j) Install SST with the wing bolt as shown in the illustration.

**SST: 09893-10010**

**SST: 09893-47010**

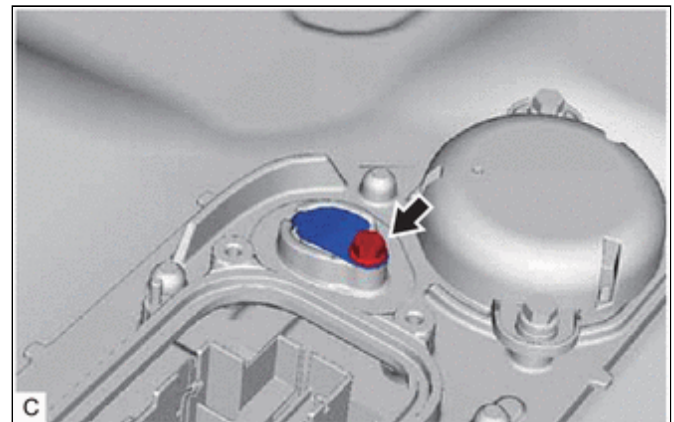
09893-04010

09893-04020



*a	Wing Bolt
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- (k) Remove the bolt and cover from the HV supply battery sub-assembly.

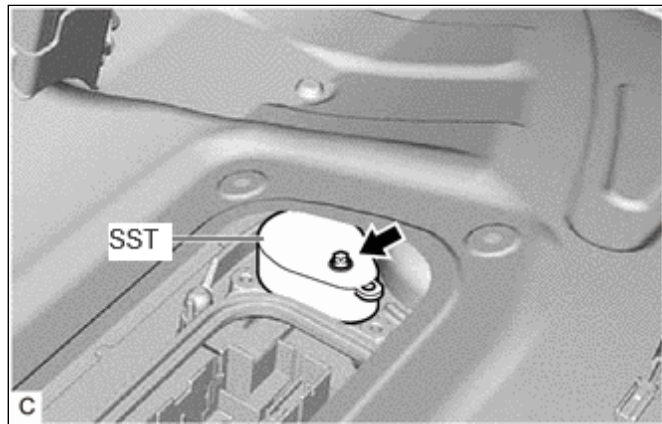


- (l) Install SST to the HV supply battery sub-assembly with the bolt.

**Torque:**

**7.5 N·m {76 kgf·cm, 6 ft·lbf}**





(m) Install SST to the HV supply battery sub-assembly with the 4 bolts.

**Torque:**

**14.4 N·m {147 kgf·cm, 11 ft·lbf}**

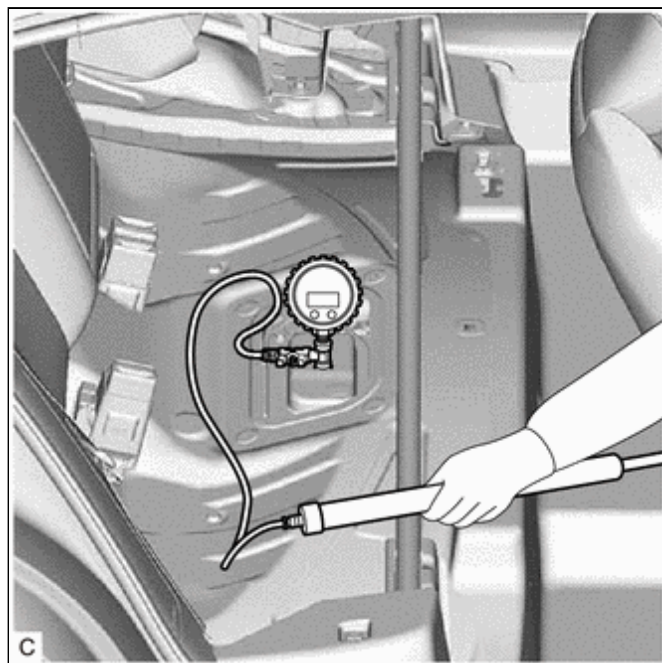
**NOTICE:**

- Visually check the mounting surface of the SST for foreign matter and dust before mounting.
- Do not use compressed air or solvents to clean.

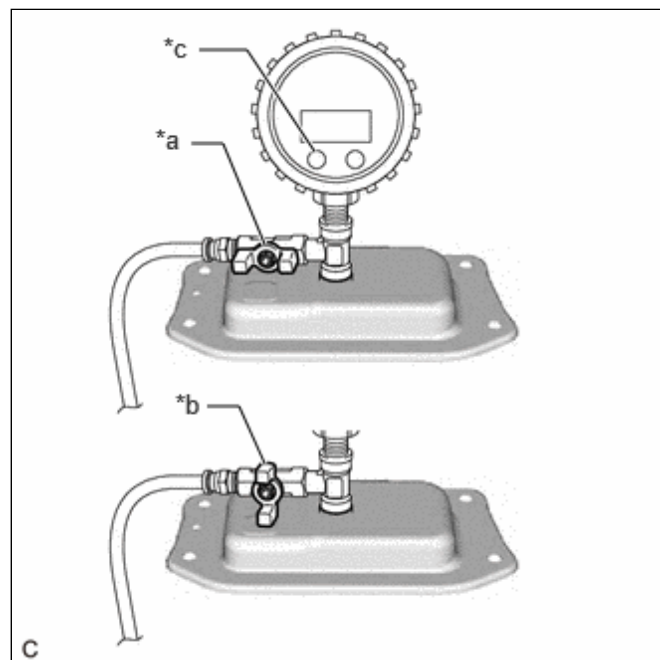
(n) Pump the pump as shown in the illustration until SST gauge pressure becomes 2.0 kPa.

**HINT:**

The pressure should reach 2.0 kPa after approximately 20 pumps.



(o) When the gauge pressure reaches 2.0 kPa, close the valve.



*a	Valve Open
*b	Valve Close
*c	Power Button

(p) Leave the vehicle for 20 minutes, then check that the gauge pressure has not decreased by more than the specified value.

OK:

After waiting for 20 minutes, pressure has not decreased by 0.1 kPa or more.

#### HINT:

If the result is not as specified, replace the HV supply battery assembly.

(q) Remove the 4 bolts and SST from the HV supply battery sub-assembly.

(r) Remove the bolt and SST from the HV supply battery sub-assembly.

(s) Remove SST from each of the connector portions.

(t) Connect the floor under wire.

Click here [INFO](#)

(u) Install the No. 1 center floor heat insulator sub-assembly.

Click here [INFO](#)

(v) Install the battery box panel sub-assembly.

Click here [INFO](#)

(w) Install the battery box cover.

Click here [INFO](#)

(x) Install the front exhaust pipe assembly.

Click here [INFO](#)

(y) Install the service plug grip.



Click here [INFO](#)

(z) Perform high voltage fuse accumulated load history reset.

Click here [INFO](#)

