



English

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**SWACE HEV**

**HV Battery Dismantling Manual**

**(207.2V-3.6Ah)**

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**WARNING:**

- Be sure to wear insulated gloves when handling high-voltage parts.
- Even if the vehicle is shut off and the relays are off, be sure to remove the service plug grip before performing any further work.
- Power remains in the high voltage electrical system for 10 minutes even after the HV battery assembly is shut off because the circuit has a condenser that stores power.
- Make sure that the tester reading is 0 V before touching any high-voltage terminals which are not insulated.
- The SRS may remain powered for up to 90 seconds after the vehicle is shut off or disabled. To prevent serious injury or death from unintentional SRS deployment, avoid cutting the SRS components.

## **Removal Procedure**

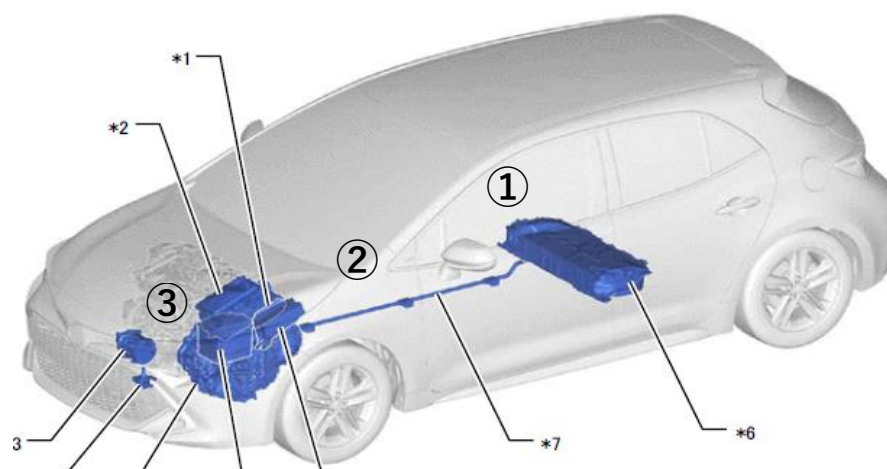
<u>1. SHUT OFF IGNITION</u> .....	<u>3</u>
<u>2. REMOVE DECK TRIM SIDE PANEL ASSEMBLY RH</u> .....	<u>3</u>
<u>3. DISCONNECT CABLE FROM NEGATIVE AUXILIARY BATTERY TERMINAL</u> .....	<u>4</u>
<u>4. REMOVE BATTERY SERVICE HOLE COVER</u> .....	<u>4</u>
<u>5. REMOVE SERVICE PLUG GRIP</u> .....	<u>4</u>
<u>6. REMOVE BATTERY COOLING BLOWER ASSEMBLY</u> .....	<u>5</u>
<u>7. REMOVE NO. 1 HV BATTERY COVER PANEL RH</u> .....	<u>5</u>
<u>8. REMOVE HV BATTERY</u> .....	<u>5</u>

# Hybrid Battery Dismantling Procedure of SWACE HEV

## I. Component Locations

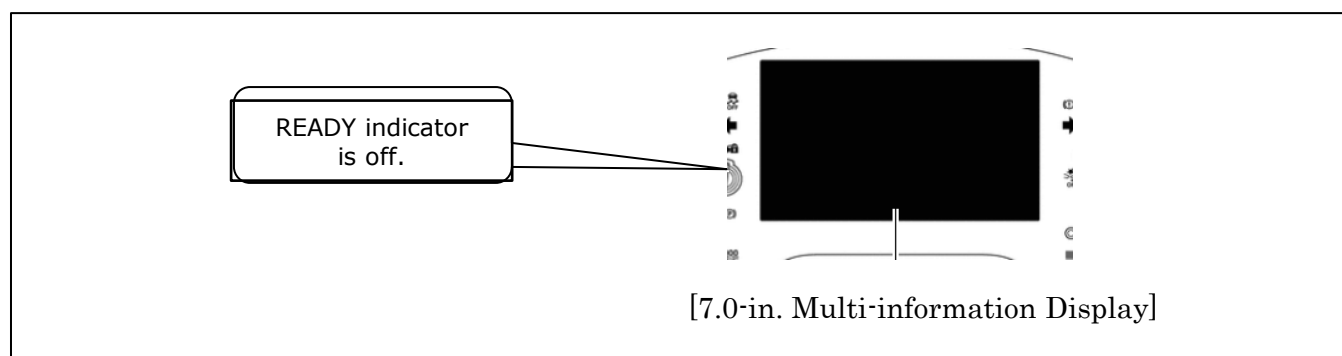
①	Hybrid Vehicle (HV) Battery (207.2 V Lithium-ion Battery, 24 kg)
②	Orange Colored Power Cables
③	12 V Lead Acid Battery

[Lithium-ion Battery]

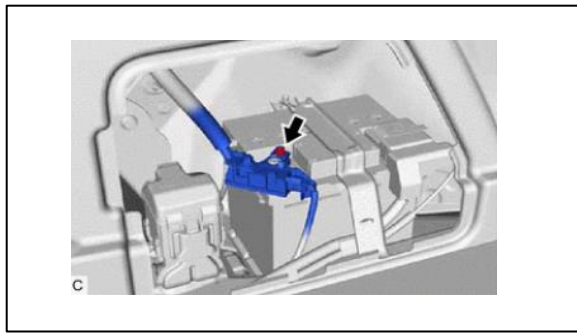


## II. Removal of HV Battery

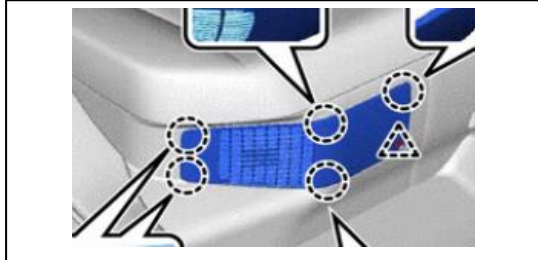
1. SHUT OFF IGNITION (READY indicator is off)



2. DISCONNECT CABLE FROM NEGATIVE LEAD ACID BATTERY (12V) TERMINAL



3. REMOVE BATTERY SERVICE HOLE COVER



4. REMOVE SERVICE PLUG GRIP



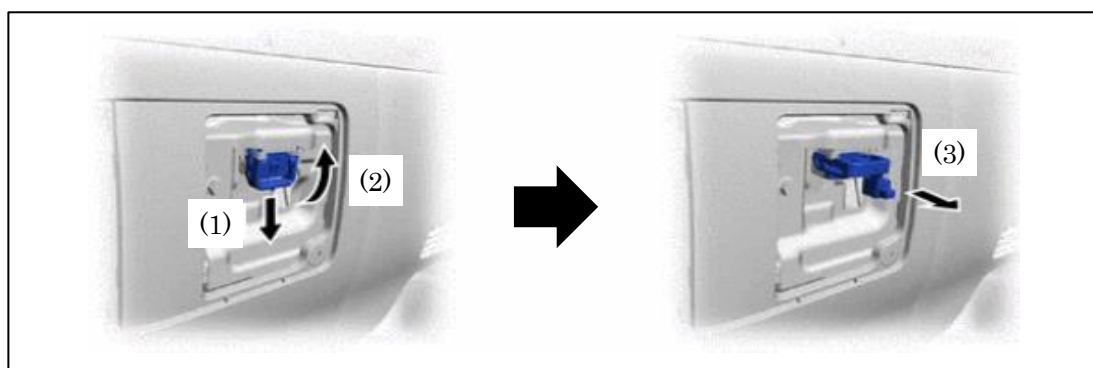
**Caution:**

- Wear insulation gloves.
- Do not inspect or perform service on the high-voltage system with the service plug grip installed.
- To reduce the risk of electric shock, make sure to remove the service plug grip to cut off the high voltage circuit before servicing the vehicle.
- To reduce the risk of electric shock, make sure to wait at least 10 minutes after removing the service plug grip to fully discharge the high voltage capacitor inside the inverter with converter assembly.
- Keep the removed service plug grip in your pocket to prevent other technicians from accidentally installing it while you are servicing the vehicle.
- Place a "CAUTION: HIGH-VOLTAGE. DO NOT TOUCH" sign (Please see 8.), in order to prevent other technicians from accidentally reconnecting the power while work is in progress.

**Notice:**

- After removing the service plug grip, turning the power switch on (READY) may cause a malfunction. Do not turn the power switch on (READY) unless instructed by the service manual.
- Do not touch the terminals of the service plug grip.

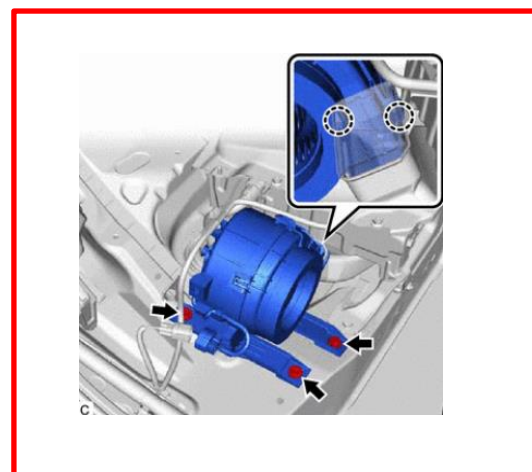
**Hint:** Waiting for at least 10 minutes is required to discharge the high voltage capacitor inside the inverter with converter assembly.



## 5. REMOVE BATTERY COOLING BLOWER ASSEMBLY

- (1) Disconnect the battery cooling blower assembly connector.
- (2) Disengage the 2 clamps.
- (3) Remove the 3 bolts, and disengage the 2 claws to remove the battery cooling blower assembly.

**Notice:** Be sure not to touch the fan part of the battery cooling blower assembly.



## 6. REMOVE NO. 1 HV BATTERY COVER PANEL RH

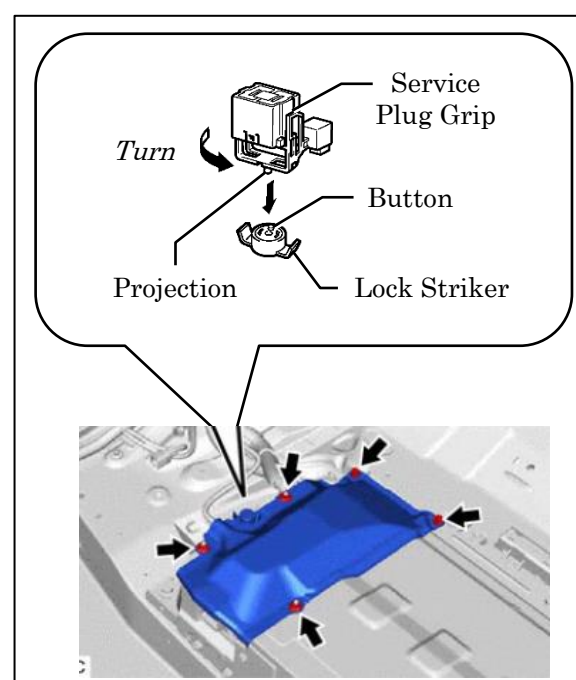


**Caution:** Wear insulation gloves.

- (1) Using the service plug grip, remove the battery cover lock striker.

**Hint:** Insert the projection of the service plug grip and turn the button of the battery cover lock striker counterclockwise to release the lock.

- (2) Remove the 3 bolts, 2 nuts and No. 1 HV battery cover panel RH from the HV battery.



## 7. REMOVE HV BATTERY

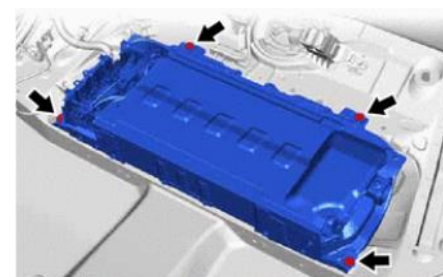


**Caution:** Wear insulation gloves.

- (1) Remove the 5 or 4 bolts and HV battery assembly.

**Notice:**

- Since the HV battery is very heavy, 2 people are needed to remove it.
- When removing/moving the HV battery, make sure not to tilt it more than 80°.



Person in charge: \_\_\_\_\_

**CAUTION:**  
**HIGH-VOLTAGE.**  
**DO NOT TOUCH.**

**CAUTION:**  
**HIGH-VOLTAGE.**  
**DO NOT TOUCH.**

Person in charge: \_\_\_\_\_

When performing work on the HV system, fold this sign and  
put it on the roof of the vehicle.