

## 5. Battery Current & Temperature Sensor

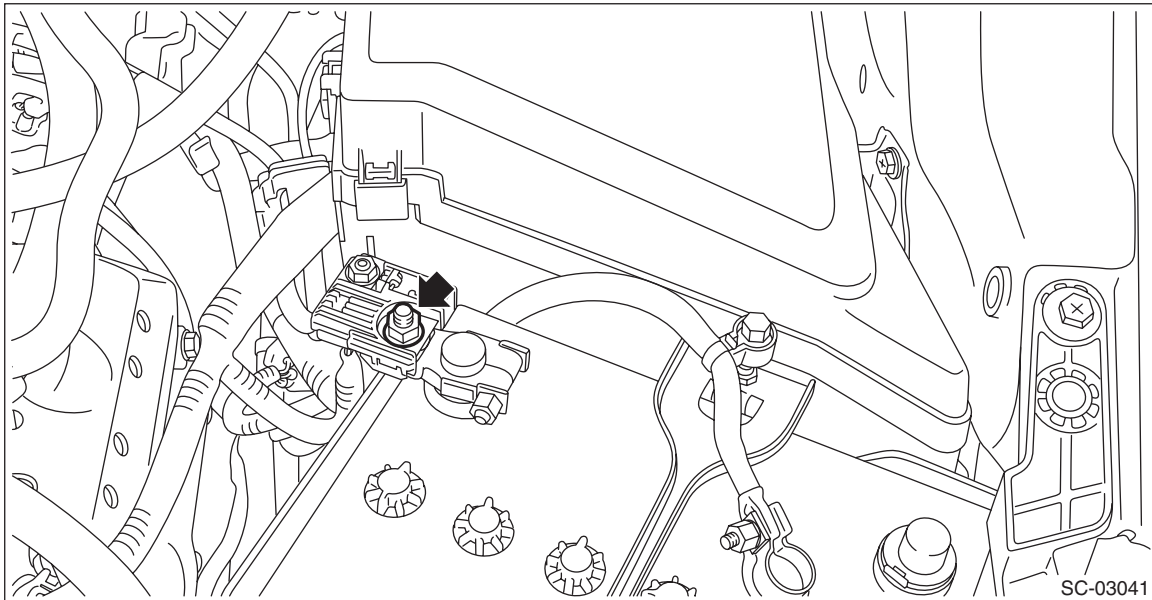
### A: REMOVAL

#### 1. BATTERY CURRENT SENSOR

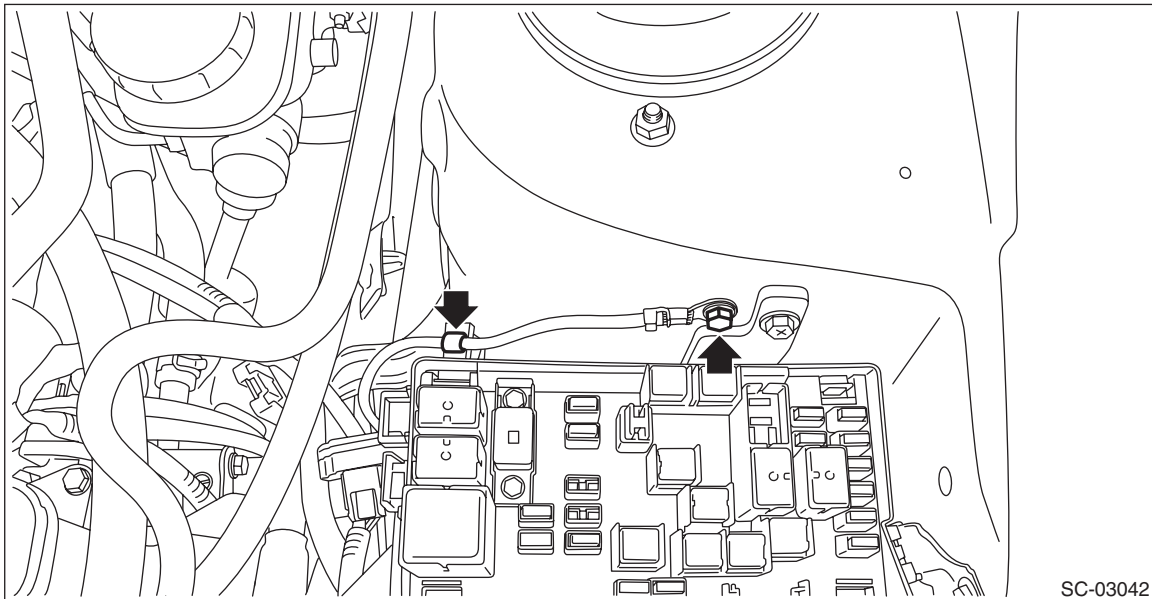
**NOTE:**

Remove the battery current sensor and battery cable as a unit.

- 1) Disconnect the battery ground cable and remove the clip from the battery rod.
- 2) Remove the battery terminal boot.
- 3) Remove the nuts, and then remove the terminal fuse assembly.



- 4) Remove the ground terminal from the vehicle and remove the harness clip.



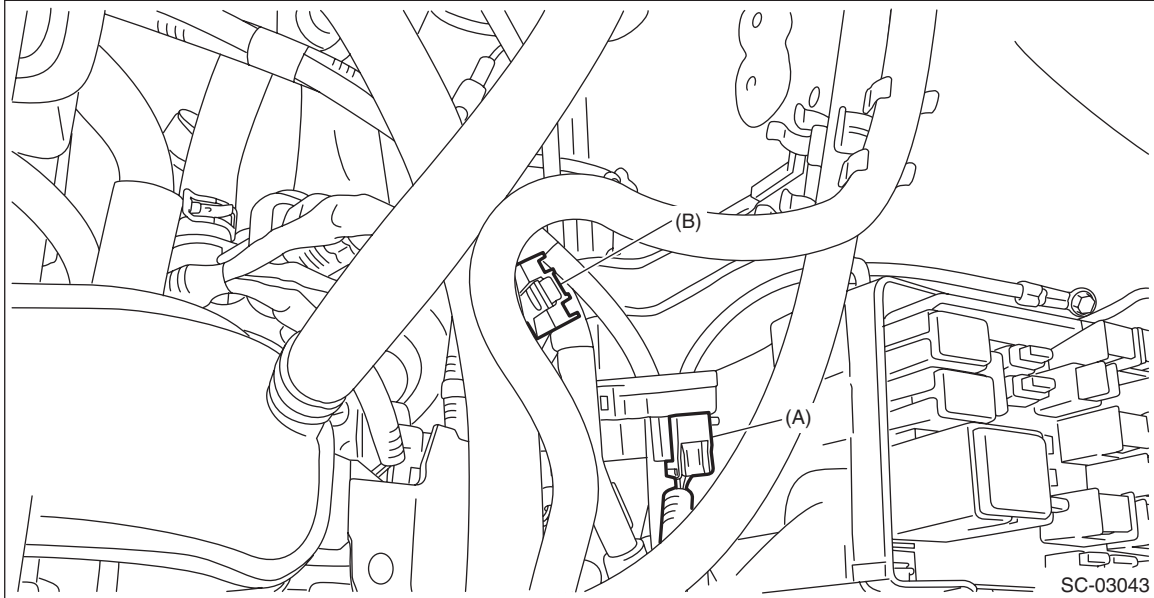
- 5) Disconnect the harness connector (A) from the battery cable.

## Battery Current & Temperature Sensor

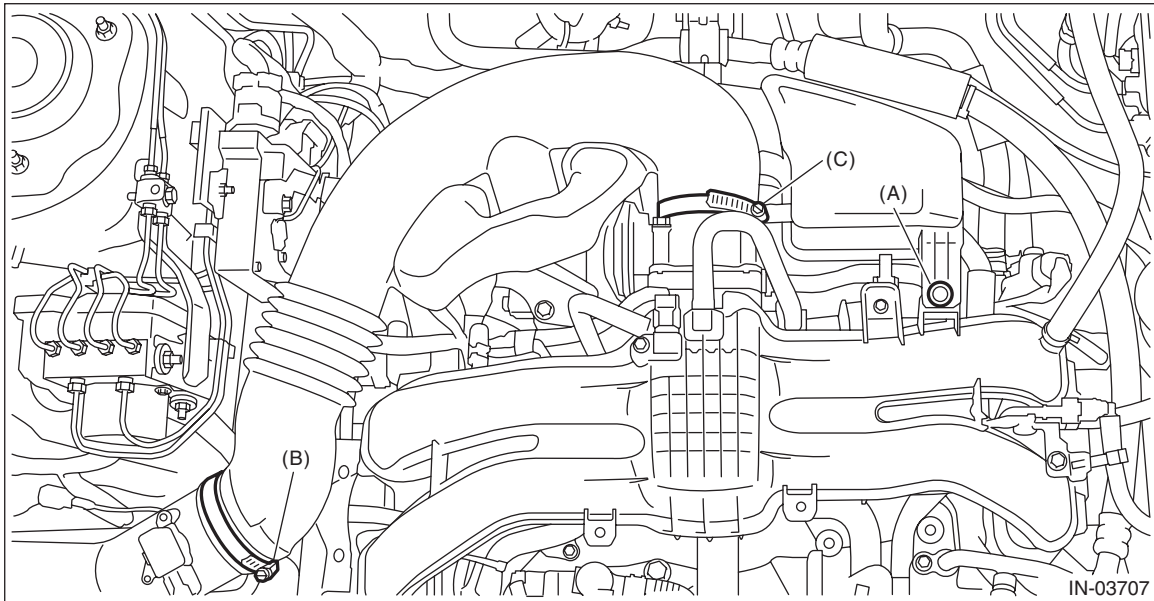
### STARTING/CHARGING SYSTEMS

---

- 6) Remove the battery cable clip (B) from the battery cable bracket.



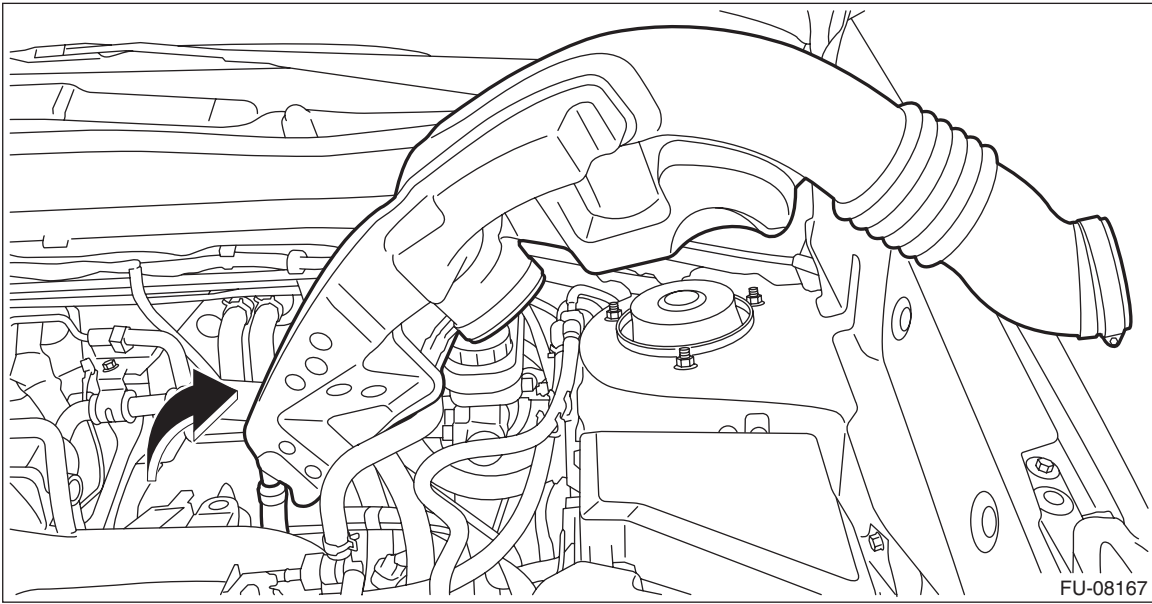
- 7) Remove the clip (A) from the air intake boot.  
8) Loosen the clamp (B) securing the air cleaner case (rear) to the air intake boot.  
9) Loosen the clamp (C) which secures the throttle body to the air intake boot.



## Battery Current & Temperature Sensor

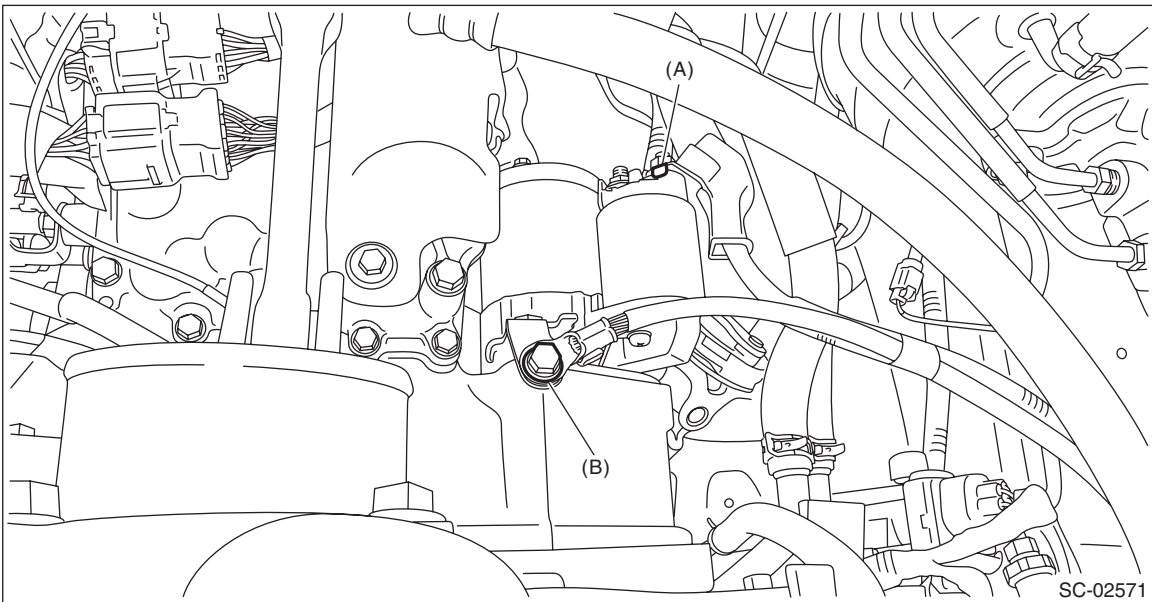
### STARTING/CHARGING SYSTEMS

10) Remove the air intake boot from the throttle body, and move the air intake boot to the left side wheel apron.



11) Remove the terminal B (A) from the starter.

12) Remove the starter ground cable (B) and remove the battery cable.

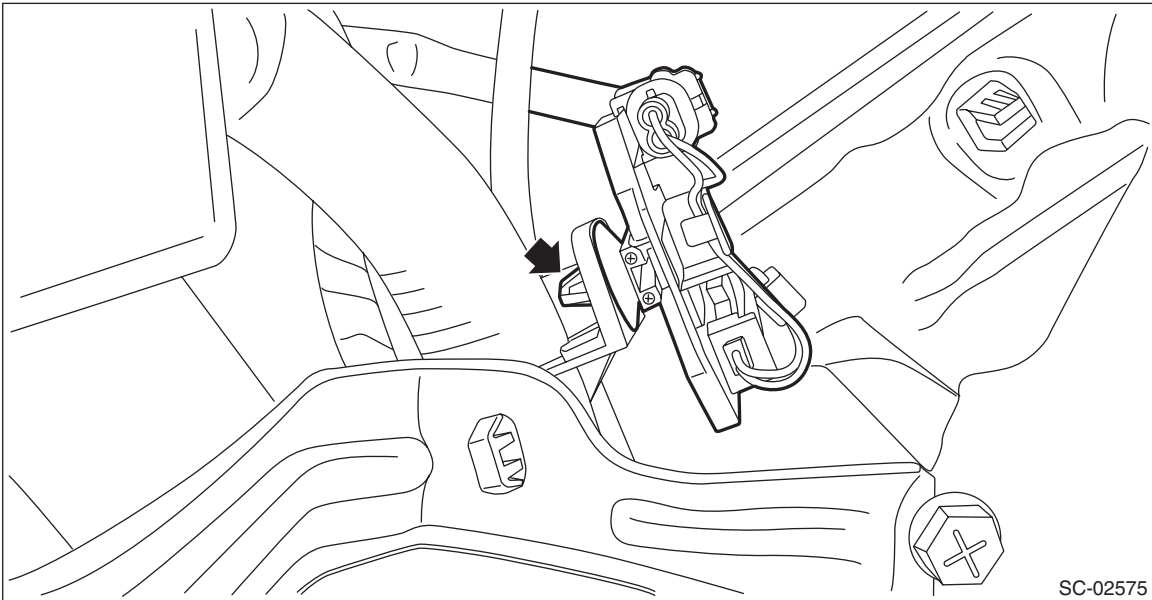


# Battery Current & Temperature Sensor

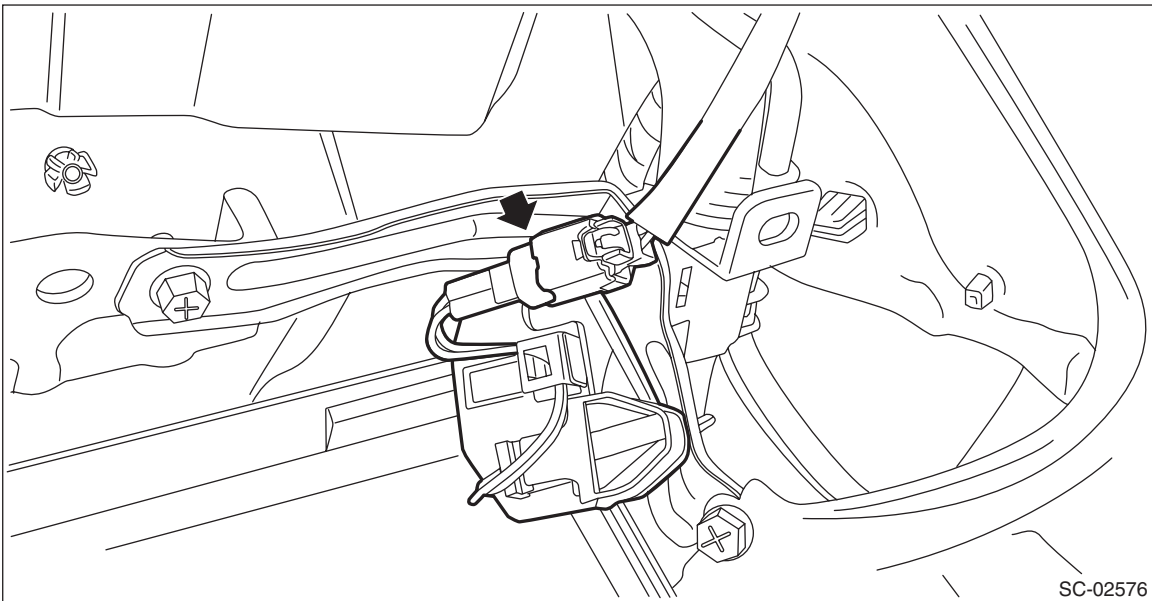
## STARTING/CHARGING SYSTEMS

### 2. BATTERY TEMPERATURE SENSOR

- 1) Remove the battery. <Ref. to SC(H4DO(w/o HEV))-52, REMOVAL, Battery.>
- 2) Remove the clip, and remove the battery temperature sensor from the bracket.



- 3) Disconnect the connector and remove the battery temperature sensor.



## B: INSTALLATION

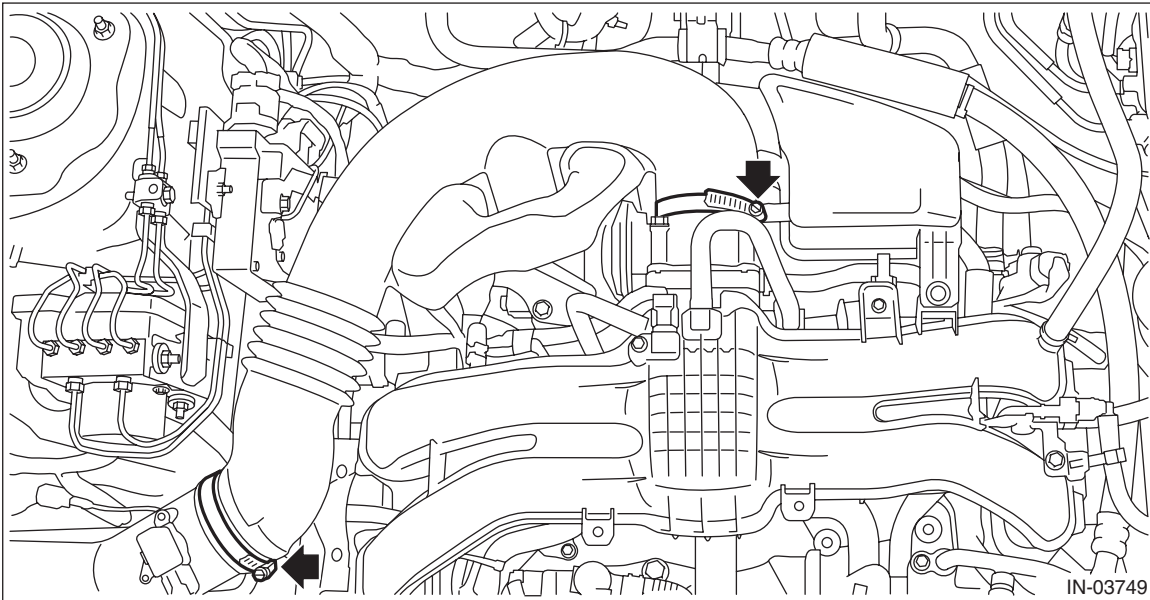
### 1. BATTERY CURRENT SENSOR

Install in the reverse order of removal.

**Tightening torque:**

<Ref. to SC(H4DO(w/o HEV))-6, BATTERY CURRENT & TEMPERATURE SENSOR, COMPONENT, General Description.>

**3 N·m (0.3 kgf-m, 2.2 ft-lb)**



### 2. BATTERY TEMPERATURE SENSOR

Install in the reverse order of removal.

# Battery Current & Temperature Sensor

## STARTING/CHARGING SYSTEMS

### C: INSPECTION

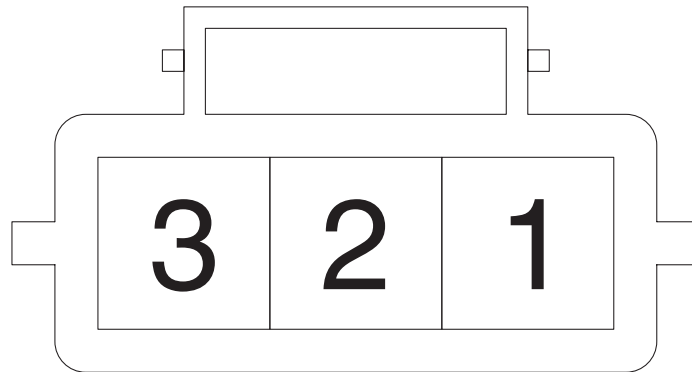
#### 1. BATTERY CURRENT SENSOR

##### CAUTION:

**Pay attention to polarity when checking the resistance in the battery current sensor.**

Check the resistance between the battery current sensor terminals.

Terminal No.	Standard
1 (+) and 2 (-)	3 — 10 k $\Omega$
1 (+) and 3 (-)	0.5 k $\Omega$ or less
2 (+) and 3 (-)	3 — 10 k $\Omega$

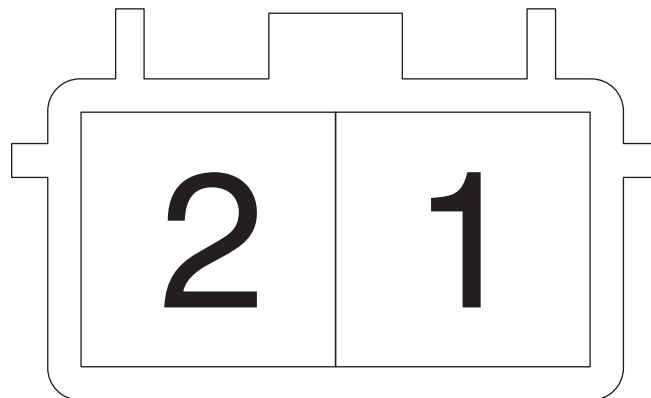


SC-02422

#### 2. BATTERY TEMPERATURE SENSOR

Check the resistance between the battery temperature sensor terminals.

Temperature	Terminal No.	Standard
20 — 30°C (68 — 86°F)	1 and 2	1.5 — 2.8 k $\Omega$



SC-02423

### 3. OTHER INSPECTIONS

Check that the battery current & temperature sensor has no deformation, cracks or other damages.

# Battery Current & Temperature Sensor

STARTING/CHARGING SYSTEMS

---



# ENGINE (DIAGNOSTICS)

# *EN(H4DO w/o HEV) (diag)*

---

	Page
1. Basic Diagnostic Procedure .....	2
2. Check List for Interview .....	4
3. General Description .....	6
4. Electrical Component Location .....	9
5. Engine Control Module (ECM) I/O Signal .....	19
6. Engine Condition Data .....	30
7. Data Link Connector .....	31
8. General Scan Tool .....	32
9. Subaru Select Monitor .....	37
10. Read Diagnostic Trouble Code (DTC) .....	49
11. Inspection Mode .....	50
12. Drive Cycle .....	55
13. Clear Memory Mode .....	65
14. System Operation Check Mode .....	66
15. Malfunction Indicator Light .....	67
16. Diagnostics for Engine Starting Failure .....	73
17. Diagnostic Procedure for Subaru Select Monitor Communication .....	94
18. List of Diagnostic Trouble Code (DTC) .....	96
19. Diagnostic Procedure with Diagnostic Trouble Code (DTC) .....	105
20. General Diagnostic Table .....	379