# **INSPECTION**



#### INSPECT BATTERY PLUG

- (a) Check the continuity.
  - (1) Using an ohmmeter, check the continuity between the terminals.

2103L-01

#### Standard: 10 k $\Omega$ or higher

If the standard is not met, replace the battery plug.

- Service Plug Grip Socket
- (2) Install the service plug grip to the socket.
- (3) Using an ohmmeter, check the continuity between the terminals.

#### Standard: Below 1 $\Omega$

If the standard is not met, replace the battery plug.



#### 2. INSPECT SYSTEM MAIN RELAY NO.1



(a) Measure the resistance between the connectors. **Standard:** 

Tester Connection	Standard
Positive terminal - Negative terminal	10 k $\Omega$ or Higher
A2 (CONT2) – B2 (CONT2)	Below 1 $\Omega$
A3 (CONT3) – C2 (CONT3)	Below 1 $\Omega$
Terminal B1 (GND) – GND	Below 1 $\Omega$
Terminal C1 (GND) – GND	Below 1 $\Omega$

- (b) Measure the resistance between positive and negative terminals when applying the battery voltage between CONT1 of connector A and GND terminal. Then **Standard: Below 1**  $\Omega$
- (c) Measure the resistance between CONT1 of the connector A terminal and GND terminal.

#### Standard:70 to 160 $\Omega$

If the standards are not met, replace the system main relay No.1.



# **Negative Terminal Positive Terminal** A77579

# **INSPECT SYSTEM MAIN RELAY NO.2**

(a) Install the 2 installed nuts to the negative and positive terminals.

# Torque: 5.6 N·m (57 kgf·cm, 50 in. lbf)

- (b) Check the continuity.
  - Using a megohmmeter set to 500 V, measure the (1) resistance according to the value(s) in the table below.

## NOTICE:

3.

# Be sure to set the meghometer to 500 V when performing the test. Using a setting higher than 500 V can result in damage to the component being inspected.

# Standard: 10 k $\Omega$ or higher

If the standard is not met, replace the system main relay No.2.

Using an ohmmeter, apply battery voltage between (2) the connector terminals, then measure the resistance between the positive and negative terminals.

# Standard: Below 1 $\Omega$

If the standard is not met, replace the system main relay No.2. Inspect the resistance. (c)

(1) Using an ohmmeter, measure the resistance between the connector terminals.

#### Standard: 20 to 50 $\Omega$

If the standard is not met, replace the system main relay No.2.

#### 4. **INSPECT SYSTEM MAIN RELAY NO.3**

(a) Install the 2 installed nuts to the negative and positive terminals.

### Torque: 5.6 N·m (57 kgf·cm, 50 in. lbf)

- Check the continuity. (b)
  - Using a megohmmeter set to 500 V, measure the (1) resistance according to the value(s) in the table below.

### NOTICE:

# Be sure to set the meghometer to 500 V when performing the test. Using a setting higher than 500 V can result in damage to the component being inspected.

### Standard: 10 k $\Omega$ or higher

If the standard is not met, replace the system main relay No.3.

Using an ohmmeter, apply battery voltage between (2) the connector terminals, then measure the resistance between the positive and negative terminals.

### Standard: Below 1 $\Omega$

If the standard is not met, replace the system main relay No.3.

- Inspect the resistance. (c)
  - (1) Using an ohmmeter, measure the resistance between the connector terminals.

### Standard: 20 to 50 $\Omega$

If the standard is not met, replace the system main relay No.3.







(a) Measure the resistance according to the value(s) in the table below.

#### Standard

Tester Connection (Positive Probe – Negative Probe)	Resistance
3 (IB) – 2 (GIB)	3 to 10 kΩ
1 (VIB) – 2 (GIB)	3 to 10 kΩ
1 (VIB) – 3 (IB)	0.5 k $\Omega$ or less

If the standards are not met, replace the battery current sensor.

#### 6. INSPECT SYSTEM MAIN RESISTOR

(a) Measure the resistance between the terminals. Standard: 18 to 22  $\Omega$ 

If the standard is not met, replace the system main resistor.





#### 7. INSPECT BATTERY BLOWER RELAY NO.1

(a) Measure the resistance between the terminals. **Standard** 

Tester Connection	Specified Condition
3 – 5	10 k $\Omega$ or Higher
3 – 5	Below 1 $\Omega$ (When battery voltage is applied to terminals 1 and 2)

If the standards are not met, replace the battery blower relay No.1.

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