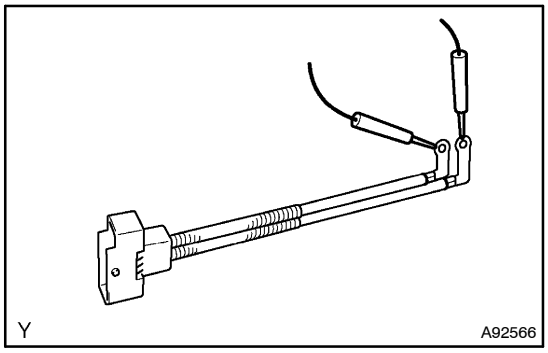
2102Q–01

INSPECTION



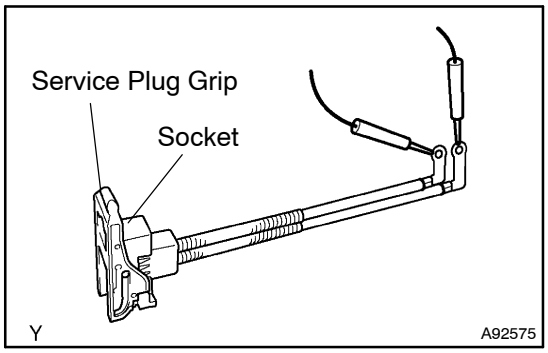
1. INSPECT BATTERY PLUG

(a) Check the continuity.

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

Standard: 10 kΩ or higher

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



(2) Install the service plug grip to the socket.

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

Standard: Below 1 kΩ

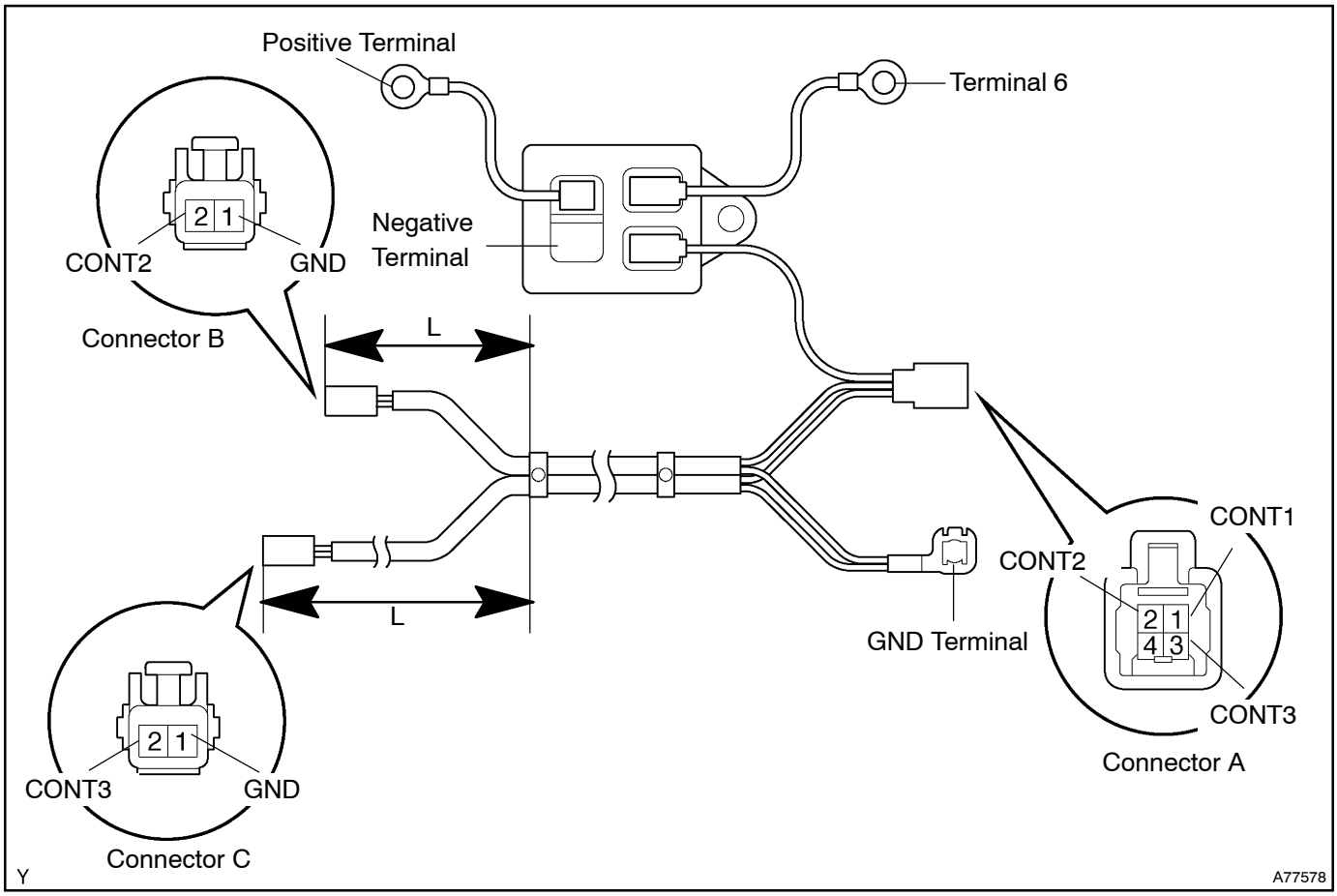
If the standard is not met, replace the battery plug.

2. INSPECT SYSTEM MAIN RELAY NO.1

NOTICE:

Connectors B and C have the same shape. Identify each connector by the wire harness length (L) and the wire harness color on the terminal 1 side.

Connector	Wire Harness Length (L)	Wire Harness Color
B	Short	Yellow
C	Long	Black



(a) Check the continuity.

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

Standard:

Tester Connection	Specified Condition
Positive terminal – Negative terminal	10 kΩ or higher
A2 (CONT2) – B1 (CONT2)	Below 1 Ω
A3 (CONT3) – C1 (CONT3)	Below 1 Ω
Terminal B1 (GND) – GND	Below 1 Ω
Terminal C2 (GND) – GND	Below 1 Ω

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

(2) Using an ohmmeter, apply voltage between the positive and negative terminals, then measure the resistance between terminals 6 and A1 (CONT1).

Standard: Below 1 Ω

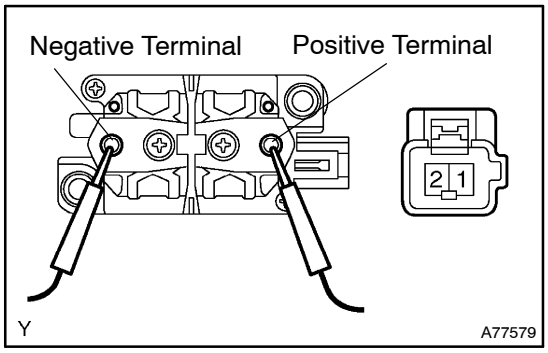
If the standard is not met, replace the system main relay No. 1.

(b) Inspect the resistance.

(1) Using an ohmmeter, measure the resistance between terminals 6 and A1 (CONT1).

Standard:70 to 160 Ω

If the standard is not met, replace the system main relay No. 1.



3. 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.

(1) Using an ohmmeter, measure the resistance between the positive and negative terminals.

Standard: 10 kΩ or higher

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

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

Standard: Below 1 Ω

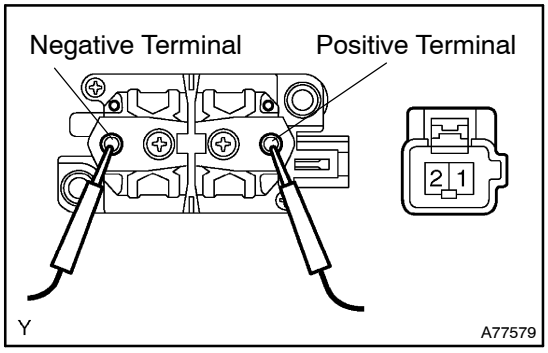
If the standard is not met, replace the system main relay No. 2.

(c) Inspect the resistance.

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

Standard: 20 to 50 Ω

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)

(b) Check the continuity.

(1) Using an ohmmeter, measure the resistance between the positive and negative terminals.

Standard: 10 kΩ or higher

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

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

Standard: Below 1 Ω

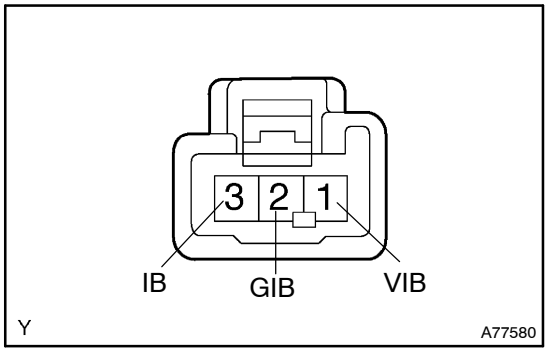
If the standard is not met, replace the system main relay No. 3.

(c) Inspect the resistance.

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

Standard: 20 to 50 Ω

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



5. INSPECT BATTERY CURRENT SENSOR

(a) Inspect the resistance.

(1) Using an ohmmeter, measure the resistance between terminals 1 (VIB) and 2 (GIB).

Standard:

Tester Connection	Specified Condition
Positive probe to terminal 1 (VIB) Negative probe to terminal 2 (GIB)	3.5 to 4.5 kΩ
Positive probe to terminal 2 (GIB) Negative probe to terminal 1 (VIB)	5 to 7 kΩ

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

(2) Using an ohmmeter, measure the resistance between terminals 1 (VIB) and 3 (IB).

Standard:

Tester Connection	Specified Condition
Positive probe to terminal 1 (VIB) Negative probe to terminal 3 (IB)	3.5 to 4.5 kΩ
Positive probe to terminal 3 (IB) Negative probe to terminal 1 (VIB)	5 to 7 kΩ

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

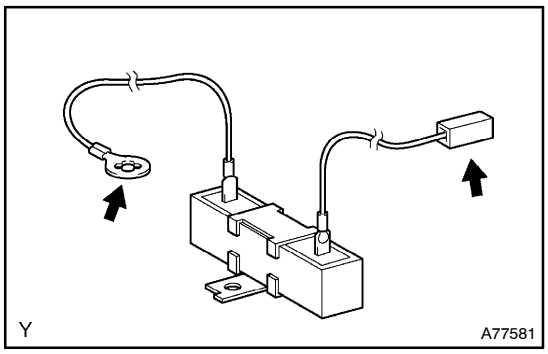
(3) Using an ohmmeter, measure the resistance between terminals 2 (GIB) and 3 (IB).

Standard: 0.2 kΩ or less

NOTICE:

Even if the probes are changed around, the resistance will not vary.

If the standard is not met, replace the battery current sensor.



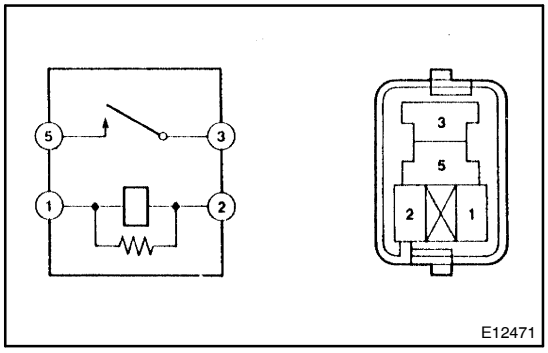
6. INSPECT SYSTEM MAIN RESISTOR

(a) Inspect the resistance.

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

Standard: 18 to 22 Ω

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



7. INSPECT BATTERY BLOWER RELAY NO.1

(a) Inspect the resistance.

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

Standard:

Tester Connection	Specified Condition
3 – 5	10 kΩ or Higher
3 – 5	Below 1 Ω (When battery voltage is applied to terminals 1 and 2)

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