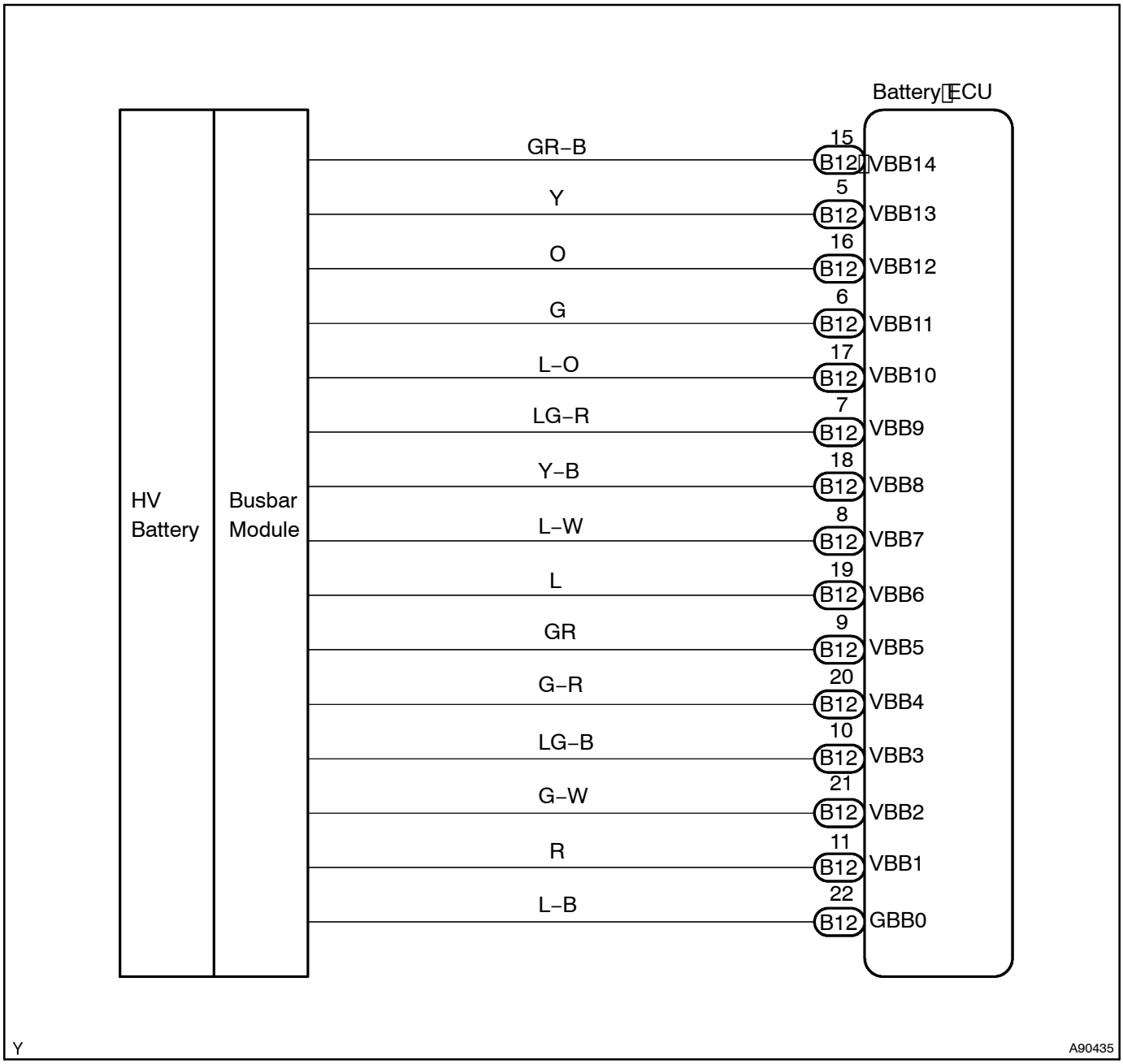
| DTC | P3030 | DISCONNECTION BETWEEN BATTERY AND ECU |
|---|---|---|

## CIRCUIT DESCRIPTION

Refer to DTC P0A80 on page 05-672.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| P3030 | Either of the following conditions occurs (1 trip detection logic)<br>• Voltage at a battery blocks is below 2V<br>• Voltage of all the battery block is between −24 V and 2 V | • Junction block assembly (busbar module)<br>• Frame wire No. 2 (busbar and wire harness)<br>• Battery ECU |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

**CAUTION:**

- **Before inspecting the high–voltage system, take safety precautions to prevent electrical shocks, such as wearing insulated gloves and removing the service plug grip. After removing the service plug grip, put it in your pocket to prevent other technicians from reconnecting it while you are servicing the high–voltage system.**
- **After disconnecting the service plug grip, wait at least for 5 minutes before touching any of the high–voltage connectors or terminals.**

HINT:

At least 5 minutes is required to discharge the high–voltage condenser inside the inverter.

| 1 | READ OUTPUT DTC(DTC P0A1F IS OUTPUT) |
|---|---|

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the power switch ON (IG).
(c) Turn the intelligent tester II ON.
(d) On the intelligent tester II, enter the following menus: Powertrain / HV Battery / DTC.
(e) Read DTCs.
**Result: DTC P0A1F is output**

**YES** → **REPLACE BATTERY ECU ASSY (See page 21–100)**

**NO**

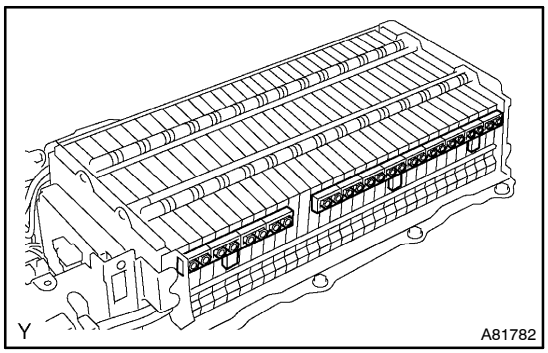
| 2 | READ VALUE OF INTELLIGENT TESTER II(BATTERY BLOCK VOL –V01 TO V14) |
|---|---|

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the power switch ON (IG).
(c) Turn the intelligent tester II ON.
(d) On the intelligent tester II, enter the following menus: Powertrain / HV Battery / Data List.
(e) Read the Battery Block Vol –V01 to V14 on the intelligent tester II.
**Standard: 2 V or more**

**OK** → **Go to step 5**

**NG**

| 3 | CHECK JUNCTION BLOCK ASSY(BUSBAR MODULE) |
|---|---|



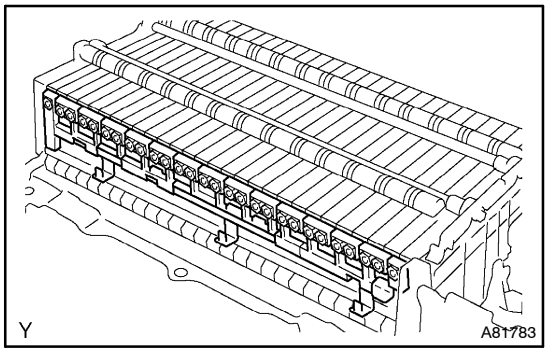

**CAUTION:**
**Wear insulated gloves and goggles before performing the following operation.**

(a) Remove the HV battery assembly (see page 21–56).
(b) Remove the battery cover (see page 21–56).
(c) Check that the nuts retaining the junction block assembly are tightened to the specified torque.
**Torque: 5.4 N·m (55 kgf·cm, 48 in.·lbf)**

NG → TIGHTEN THEM TO SPECIFIED TORQUE

OK

## 4 CHECK FRAME WIRE NO.2(BUSBAR MODULE)



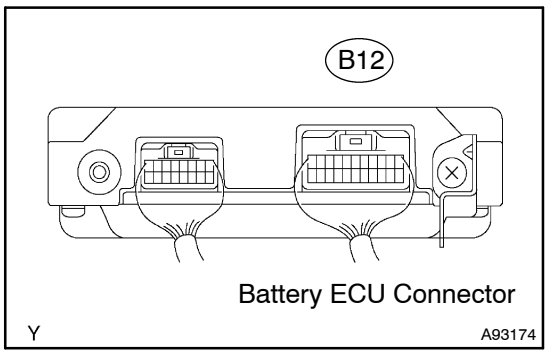

**CAUTION:**
**Wear insulated gloves and goggles before performing the following operation.**

(a) Check that the nuts retaining frame wire No. 2 are tightened to the specified torque.
**Torque: 5.4 N·m (55 kgf·cm, 48 in.·lbf)**

NG → TIGHTEN THEM TO SPECIFIED TORQUE

OK

## 5 CHECK CONNECTION OF FRAME WIRE NO. 2 CONNECTOR



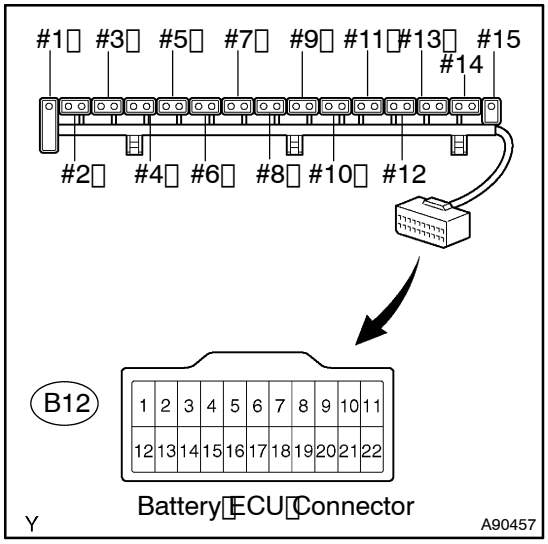

**CAUTION:**
**Wear insulated gloves before performing the following operation.**

(a) Check the connection condition of the B12 battery ECU connector.
**OK: Connector has been connected securely and there is no poor connection.**

NG → CONNECT SECURELY

OK

| 6 | INSPECT FRAME WIRE NO.2(BUSBAR MODULE) |
|---|---|




**CAUTION:**
**Wear insulated gloves and goggles before performing the following operation.**

(a) Remove the frame wire No.2 (see page 21–76).

(b) Check the resistance between each connector of frame wire No.2 and the metal portion.

**Standard (Check for open):**

| Tester Connection | Specified Condition |
|---|---|
| GBB0 (B12–22) – #1 | Below 1 Ω |
| VBB1 (B12–11) – #2 | Below 1 Ω |
| VBB2 (B12–21) – #3 | Below 1 Ω |
| VBB3 (B12–10) – #4 | Below 1 Ω |
| VBB4 (B12–20) – #5 | Below 1 Ω |
| VBB5 (B12–9) – #6 | Below 1 Ω |
| VBB6 (B12–19) – #7 | Below 1 Ω |
| VBB7 (B12–8) – #8 | Below 1 Ω |
| VBB8 (B12–18) – #9 | Below 1 Ω |
| VBB9 (B12–7) – #10 | Below 1 Ω |
| VBB10 (B12–17) – #11 | Below 1 Ω |
| VBB11 (B12–6) – #12 | Below 1 Ω |
| VBB12 (B12–16) – #13 | Below 1 Ω |
| VBB13 (B12–5) – #14 | Below 1 Ω |
| VBB14 (B12–15) – #15 | Below 1 Ω |

(c) Reinstall the frame wire No.2.

NG → **REPLACE FRAME WIRE NO.2 (See page 21–76)**

OK

**REPLACE BATTERY ECU ASSY (See page 21–100)**