# DTC P0A94/585 DC/DC CONVERTER PERFORMANCE

## CIRCUIT DESCRIPTION

Refer to DTC P0A94 (INF 589) on page 05–531.

| DTC No. | INF Code | DTC Detection Condition | Trouble Area |
|---|---|---|---|
| P0A94 | 585 | Boost converter voltage (VL) sensor performance problem | • Wire harness or connector<br>• w/ converter inverter assembly |

## WIRING DIAGRAM

Refer to DTC P0A94 (INF 589) on page 05–531.

## 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 (HYBRID CONTROL) |
|---|---|

(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 / Hybrid Control / DTC.
(e) Read DTCs.

**Result: DTC P0A94 (INF 585) and other DTCs are output**

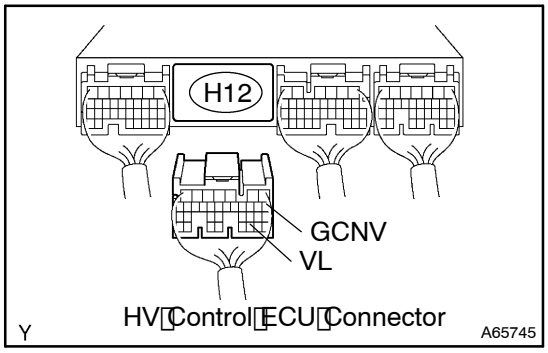
HINT:

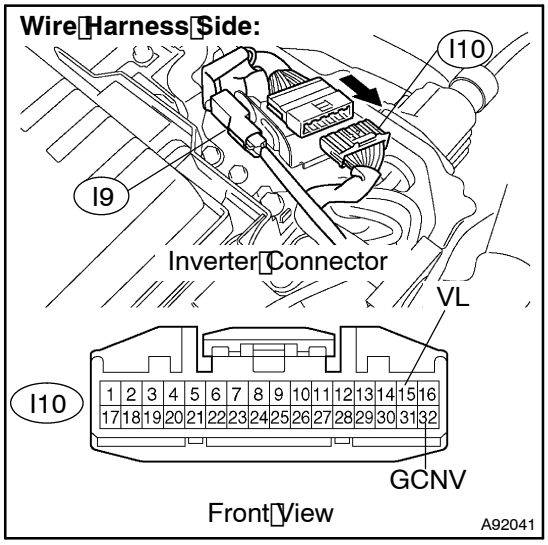
If any other codes besides P0A94 (INF 585) are output, perform troubleshooting for those DTCs first.

**YES** → **GO TO RELEVANT DTC CHART (See page 05–268)**

**NO**

| 2 | CHECK HARNESS AND CONNECTOR(HYBRID VEHICLE CONTROL ECU – INVERTER) |
|---|---|




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

(a) Turn the power switch OFF.

(b) Remove the service plug grip (see page 21–120).

**NOTICE:**
**Turning the power switch ON (READY) with the service plug grip removed could cause malfunction. Therefore, never turn the power switch ON (READY) in this state.**

(c) Disconnect the H12 HV control ECU connector.

(d) Remove the inverter cover (see page 21–25).

(e) Disconnect the I10 inverter connector.

(f) Turn the power switch ON (IG).

HINT:
DTCs for the interlock switch system are output when turning the power switch ON (IG) with both service plug grip and inverter cover removed.

(g) Measure the voltage between the terminals of the HV control ECU connector and body ground.

**Standard:**

| Tester Connection | Specified Condition |
|---|---|
| VL (H12–30) – Body ground | Below 1 V |
| GCNV (H12–8) – Body ground | Below 1 V |

(h) Turn the power switch OFF.

(i) Check the resistance between the wire harness side connectors.

**Standard (Check for open):**

| Tester Connection | Specified Condition |
|---|---|
| VL (H12–30) – VL (I10–15) | Below 1 Ω |
| GCNV (H12–8) – GCNV (I10–32) | Below 1 Ω |

**Standard (Check for short):**

| Tester Connection | Specified Condition |
|---|---|
| VL (H12–30) or VL (I10–15) – Body ground | 10 kΩ or higher |
| GCNV (H12–8) or GCNV (I10–32) – Body ground | 10 kΩ or higher |

(j) Reconnect the inverter connector.

(k) Reconnect the HV control ECU connector.

(l) Reinstall the inverter cover (see page 21–25).

(m) Reinstall the service plug grip (see page 21–120).

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK →

**REPLACE W/CONVERTER INVERTER ASSY (See page 21–25)**