

<b>DTC</b>	<b>P0A09/591</b>	<b>DC/DC CONVERTER STATUS CIRCUIT LOW INPUT</b>
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<b>DTC</b>	<b>P0A10/592</b>	<b>DC/DC CONVERTER STATUS CIRCUIT HIGH INPUT</b>
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**CIRCUIT DESCRIPTION**

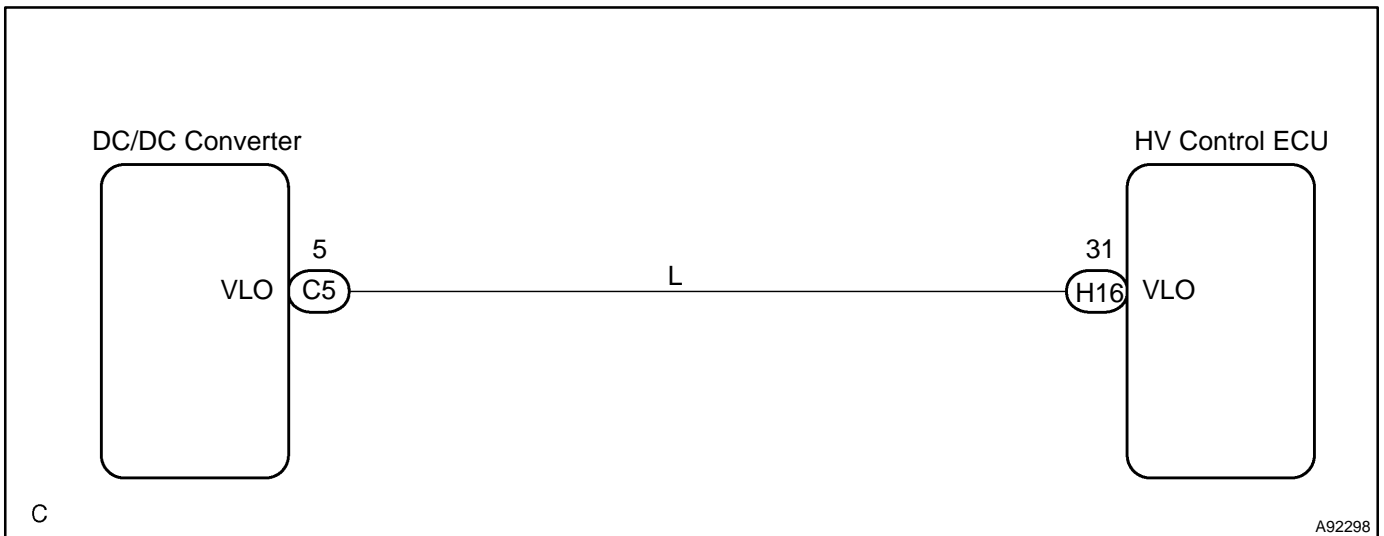
See the description of the DC/DC converter on page 05-483.

The HV control ECU sends the output voltage switch signal to the DC/DC converter via the VLO signal line in order to switch output voltage according to vehicle status.

If the vehicle is being driven with an inoperative DC/DC converter, the voltage of the auxiliary battery will drop, which will prevent the continued operation of the vehicle. Therefore, the HV control ECU monitors the operation of the DC/DC converter and alerts the driver if it detects malfunction.

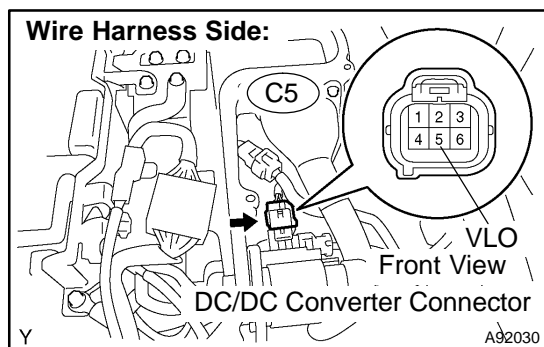
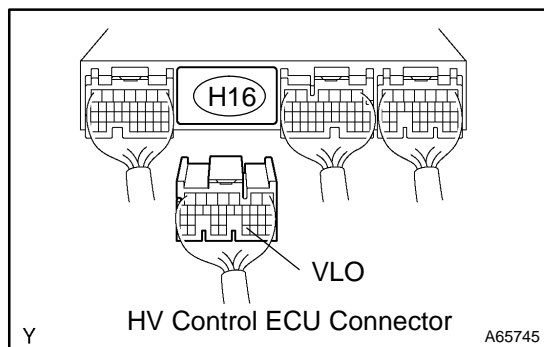
DTC No.	INF Code	DTC Detection Condition	Trouble Area
P0A09	591	Open or GND short in VLO signal circuit of DC/DC converter	<ul style="list-style-type: none"> <li>• Wire harness or connector</li> <li>• w/ converter inverter assembly</li> </ul>
P0A10	592	+B short in VLO signal circuit of DC/DC converter	<ul style="list-style-type: none"> <li>• Wire harness or connector</li> <li>• w/ converter inverter assembly</li> </ul>

**WIRING DIAGRAM**



# INSPECTION PROCEDURE

## 1 CHECK HARNESS AND CONNECTOR(HYBRID VEHICLE CONTROL ECU – DC/DC CONVERTER)



- (a) Disconnect the H16 HV control ECU connector.
- (b) Disconnect the C5 DC/DC converter connector.
- (c) Turn the power switch ON (IG).
- (d) Measure the voltage between the terminal of the HV control ECU connector and body ground.

**Standard:**

Tester Connection	Specified Condition
VLO (H16-31) – Body ground	Below 1V

- (e) Turn the power switch OFF.
- (f) Check the resistance between the wire harness side connectors.

**Standard (Check for open):**

Tester Connection	Specified Condition
VLO (H16-31) – VLO (C5-5)	Below 1 Ω

**Standard (Check for short):**

Tester Connection	Specified Condition
VLO (H16-31) or VLO (C5-5) – Body ground	10 kΩ or higher

- (g) Reconnect the DC/DC converter connector.
- (h) Reconnect the HV control ECU connector.

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

**OK**

**REPLACE W/CONVERTER INVERTER ASSY (See page 21-23)**