DTC	P0A08- 264	DC / DC Converter Status Circuit
1		

DESCRIPTION

The HV Control ECU monitors the DC / DC converter circuit status via the NODD terminal. If the ECU detects an internal circuit malfunction in the converter and stops converter operation with its fail-safe function, causing the auxiliary battery voltage to drop below 11 V, the ECU outputs DTC P0A08 (INF 264).

DTC No.	INF Code	DTC Detection Condition	Trouble Area
P0A08	264	 All conditions below are detected DC / DC converter internal circuit malfunction is detected DC / DC converter enters fail-safe mode Auxiliary battery voltage drops below 11 V 	 Auxiliary battery Fusible link block assembly Fuse (for 12 V electrical equipment) Engine room relay block Inverter cooling hose Water pump with motor assembly Cooling fan motor No. 2 cooling fan motor Wire harness or connector Inverter with converter assembly (DC / DC converter)

WIRING DIAGRAM

Refer to DTC P0A09 (INF265) (see page HV-125).

INSPECTION PROCEDURE

1	CHECK FOR DTC	
 (a) Clear the DTC(s) (see page HV-39). (b) Connect the intelligent tester to the DLC3. (c) Turn the power switch ON (IG) and turn the intelligent tester ON. (d) Read DTC(s). 		
Result		Proceed to
One or m P0A94, P P0ADF, P	ore of following DTCs is output: 0AA1, P0AA4, P0AA6, P0AE0, P0AE6, P0AE7, P0ADB, 23000, P3004, P3110	A
P0A08 is	output	В
В	A	SO TO DIAGNOSTIC TROUBLE CODE CHART
2	CHECK CABLE CONNECTION FROM AUXILIARY BATTERY TERMINAL	
	(a) Tur	n the power switch OFF.

- (b) Check the auxiliary battery (12 V) cable connections at places listed below:
 - The battery positive and negative terminals are not loose.



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- The body ground of the battery negative cable is not loose.
- The FL block nut is not loose. **OK:**

They are not loose.











11 CHECK INVERTER WITH CONVERTER ASSEMBLY



- (a) Disconnect the C6 connector.
- (b) Check that the C6 connector terminal does not have burnout.
 OK:

There is no burnout.

NG REPAIR OR REPLACE CONNECTOR



ΟΚ

12 CHECK HARNESS AND CONNECTOR (INVERTER WITH CONVERTER ASSEMBLY -BATTERY AND BODY GROUND)



- (a) Disconnect the C5 and C6 converter inverter connectors.
- (b) Turn the power switch ON (IG).
- (c) Measure the voltage of the wire harness side connectors.

Standard voltage

Tester Connection	Condition	Specified Condition
C5-3 (S) - Body ground	Always	Some as 12 V battery voltage
C6-1 (AMD) - Body ground	Always	Some as 12 V battery voltage
C5-1 (IGCT) - Body ground	Power switch ON (IG)	8 to 16 V

(d) Measure the resistance between the wire harness side connector.

Standard resistance

Tester Connection	Condition	Specified Condition
C5-4 (NODD) - Body ground	IG-OFF	100 to 140 Ω

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

ΗV

13 CHECK OPERATION OF INVERTER WITH CONVERTER ASSEMBLY



(a) Connect the C5 and C6 converter inverter connectors.

- (b) Set the electrical tester with the AC/DC 400 A probe to the wire harness of the C6 connector.
- (c) Connect the I14 and I15 connectors (color: orange) to the inverter.
- (d) Install the inverter cover.
- (e) Install the service plug grip.
- (f) Turn the power switch ON (READY).
- (g) Wait 5 minutes.
- (h) Operate the electrical devices as listed below:
 - Set the light control switch to High beam.
 - Set the heater blower fan to HI.
 - Turn on the defogger.
 - Depress the brake pedal.
 - Press all the switches of the window regulator master switch at the same time.
 - Turn the steering wheel to the right or left.
- (i) Measure the amperage and voltage.

Standard amperage

Item	Specified Condition
Output current	40 to 100 A

Standard voltage



Go to step 15



NG 14 **INSPECT FUSE** (a) Remove the EPS-H, HEAD MAIN-H, H-LP LO LH, H-LP LO RH, H-LP HI LH, and H-LP HI RH fuses from the engine room relay block. (b) Remove the DEF-H, PWR-H, FR-DOOR, STOP M/HTR. A/C (HTR) fuses from the driver side junction block. (c) Measure the resistance of the fuses. Standard resistance: Below 1 Ω NG CHECK FOR SHORT IN ALL HARNESS OR CONNECTORS CONNECTED TO FUSE AND **REPLACE FUSE** OK 15 CHECK COOLANT LEVEL OF INVERTER WITH CONVERTER ASSEMBLY

OK

(a) Check the coolant level in the reservoir tank.



ОК

