

DTC	P3108/535	LOST COMMUNICATION WITH A/C SYSTEM CONTROL MODULE
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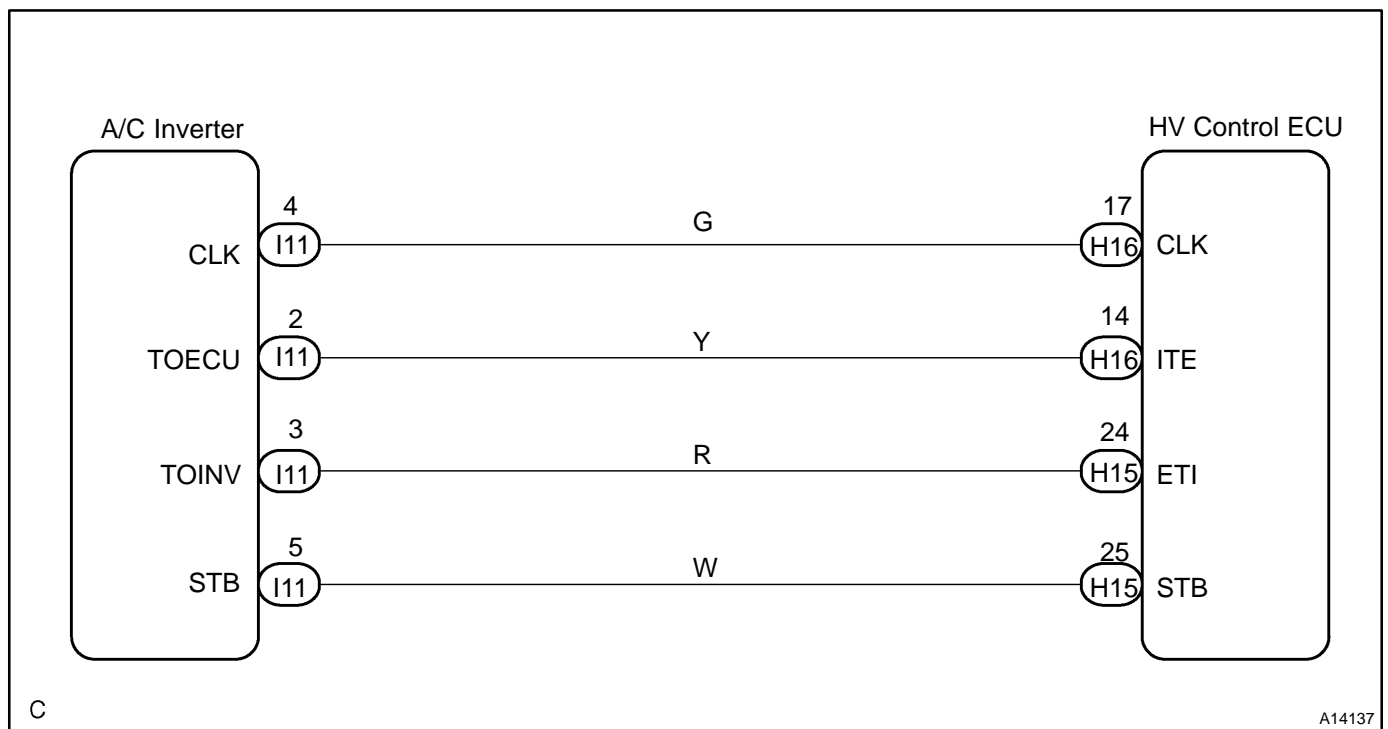
DTC	P3108/538	LOST COMMUNICATION WITH A/C SYSTEM CONTROL MODULE
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CIRCUIT DESCRIPTION

The HV control ECU detects a wiring malfunction in the serial communication line of the A/C inverter.

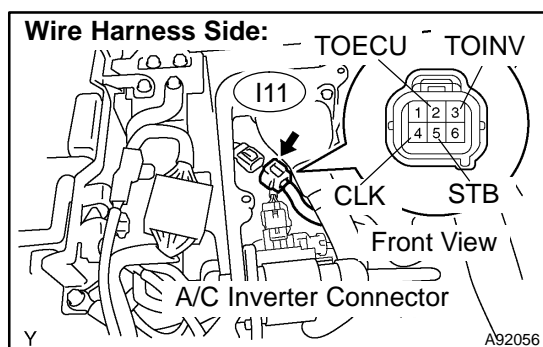
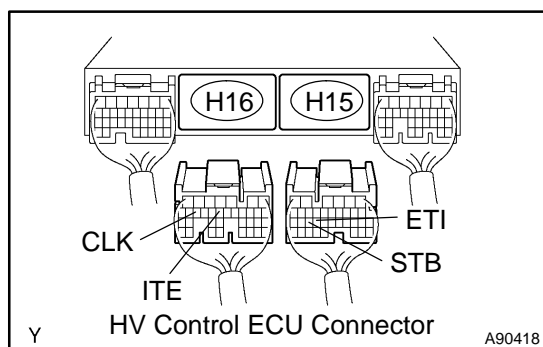
DTC No.	INF Code	DTC Detection Condition	Trouble Area
P3108	535	Serial communication malfunction	<ul style="list-style-type: none"> • Wire harness or connector • w/ converter inverter assembly
P3108	536	A/C inverter malfunction	<ul style="list-style-type: none"> • Wire harness or connector • w/ converter inverter assembly
P3108	538	Open in STB signal circuit	<ul style="list-style-type: none"> • Wire harness or connector • w/ converter inverter assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK HARNESS AND CONNECTOR(HYBRID VEHICLE CONTROL ECU – A/C INVERTER)
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- (a) Disconnect the H15 and H16 HV control ECU connectors.
- (b) Disconnect the I11 A/C inverter connector.
- (c) Turn the power switch ON (IG).
- (d) Measure the voltage between the terminals of the HV control ECU connector and body ground.

Standard:

Tester Connection	Specified Condition
CLK (H16-17) – Body ground	Below 1 V
ITE (H16-14) – Body ground	Below 1 V
ETI (H15-24) – Body ground	Below 1 V
STB (H15-25) – Body ground	Below 1 V

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

Standard (Check for open):

Tester Connection	Specified Condition
CLK (H16-17) – CLK (I11-4)	Below 1 Ω
ITE (H16-14) – TOECU (I11-2)	Below 1 Ω
ETI (H15-24) – TOINV (I11-3)	Below 1 Ω
STB (H15-25) – STB (I11-5)	Below 1 Ω

Standard (Check for short):

Tester Connection	Specified Condition
CLK (H16-17) or CLK (I11-4) – Body ground	10 k Ω or higher
ITE (H16-14) or TOECU (I11-2) – Body ground	10 k Ω or higher
ETI (H15-24) or TOINV (I11-3) – Body ground	10 k Ω or higher
STB (H15-25) or STB (I11-5) – Body ground	10 k Ω or higher

- (g) Reconnect the A/C inverter connector.
- (h) Reconnect the HV control ECU connectors.

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REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

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