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

DTC	P3108/536	LOST COMMUNICATION WITH A/C SYSTEM CONTROL MODULE

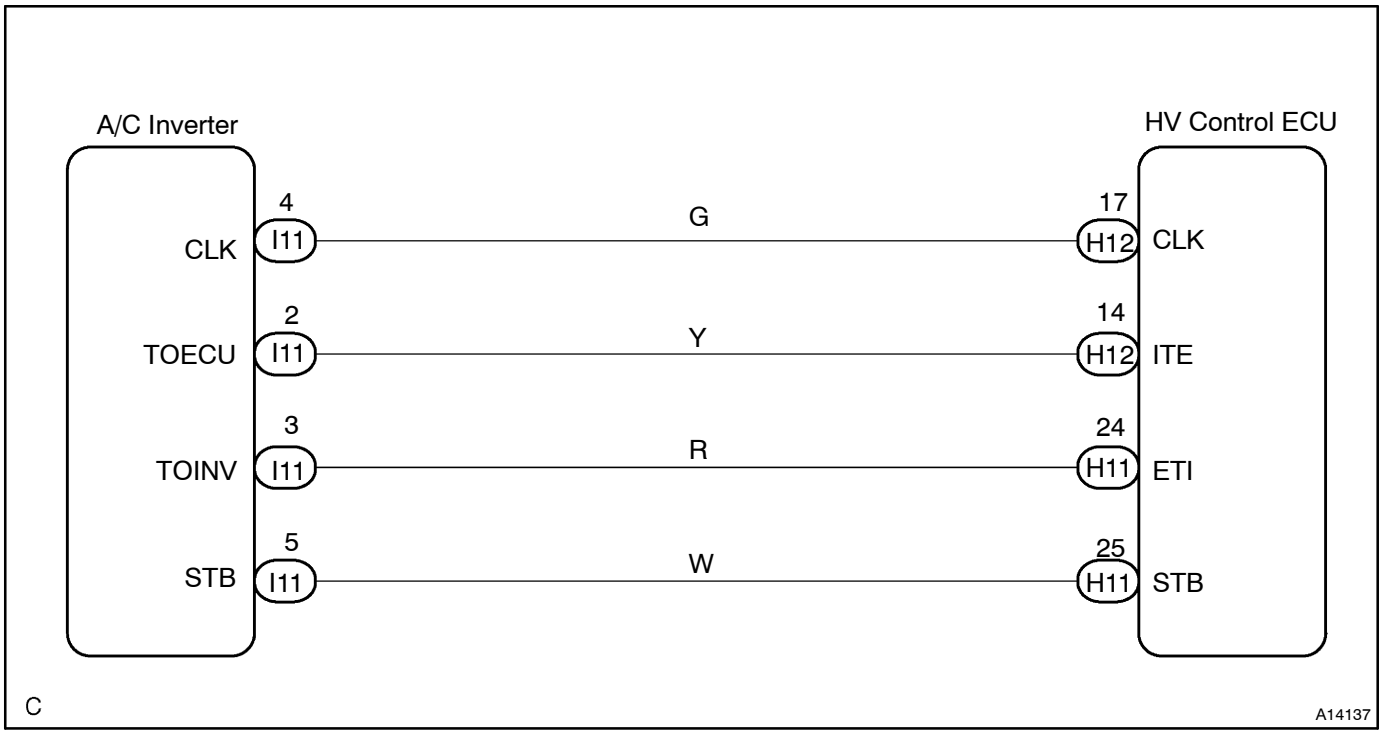
DTC	P3108/538	LOST COMMUNICATION WITH A/C SYSTEM CONTROL MODULE

CIRCUIT DESCRIPTION

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

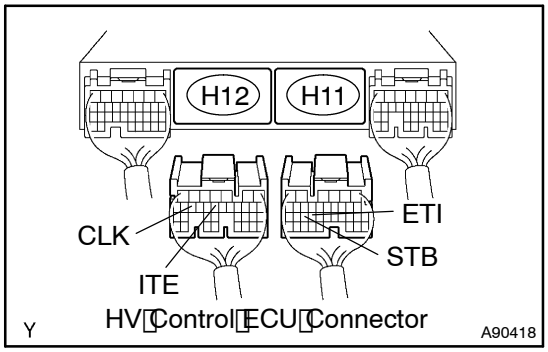
DTC No.	INF Code	DTC Detection Condition	Trouble Area
P3108	535	Serial communication malfunction	• Wire harness or connector • w/ converter inverter assembly
P3108	536	A/C inverter malfunction	• Wire harness or connector • w/ converter inverter assembly
P3108	538	Open in STB signal circuit	• Wire harness or connector • w/ converter inverter assembly

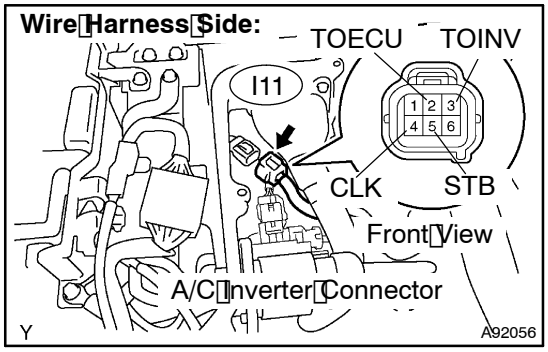
WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK HARNESS AND CONNECTOR(HYBRID VEHICLE CONTROL ECU – A/C INVERTER)





(a) Disconnect the H11 and H12 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 (H12–17) – Body ground	Below 1 V
ITE (H12–14) – Body ground	Below 1 V
ETI (H11–24) – Body ground	Below 1 V
STB (H11–25) – 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 (H12–17) – CLK (I11–4)	Below 1 Ω
ITE (H12–14) – TOECU (I11–2)	Below 1 Ω
ETI (H11–24) – TOINV (I11–3)	Below 1 Ω
STB (H11–25) – STB (I11–5)	Below 1 Ω

Standard (Check for short):

Tester Connection	Specified Condition
CLK (H12–17) or CLK (I11–4) – Body ground	10 kΩ or higher
ITE (H12–14) or TOECU (I11–2) – Body ground	10 kΩ or higher
ETI (H11–24) or TOINV (I11–3) – Body ground	10 kΩ or higher
STB (H11–25) or STB (I11–5) – Body ground	10 kΩ or higher

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

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

OK

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