DTC	U0100/211	LOST COMMUNICATION WITH ECM/PCM ”A”
DTC	U0100/212	LOST COMMUNICATION WITH ECM/PCM ”A”
DTC	U0100/530	LOST COMMUNICATION WITH ECM/PCM ”A”
DTC	U0111/208	LOST COMMUNICATION WITH BATTERY ENERGY CONTROL MODULE ”A”
DTC	U0111/531	LOST COMMUNICATION WITH BATTERY ENERGY CONTROL MODULE ”A”
DTC	U0129/220	LOST COMMUNICATION WITH BRAKE SYSTEM CONTROL MODULE
DTC	U0129/222	LOST COMMUNICATION WITH BRAKE SYSTEM CONTROL MODULE
DTC	U0129/528	LOST COMMUNICATION WITH BRAKE SYSTEM CONTROL MODULE
DTC	U0129/529	LOST COMMUNICATION WITH BRAKE SYSTEM CONTROL MODULE
DTC	U0131/433	LOST COMMUNICATION WITH POWER STEERING CONTROL MODULE
DTC	U0131/434	LOST COMMUNICATION WITH POWER STEERING CONTROL MODULE
DTC	U0146/435	LOST COMMUNICATION WITH GATEWAY ”A”

CIRCUIT DESCRIPTION

The HV control ECU transmits and receives signals to and from the ECM, battery ECU, skid control ECU, power steering ECU, and the gateway ECU via CAN (Controller Area Network) communication.

DTC No.	INF Code	DTC Detection Condition	Trouble Area
U0100	211	CAN communication problem between ECM and HV control ECU (no signal input)	• CAN communication system
U0100	212	CAN communication problem between ECM and HV control ECU (transmission error)	• CAN communication system
U0100	530	CAN communication problem between ECM and HV control ECU (CAN communication system malfunction)	• CAN communication system
U0111	208	CAN communication problem between battery ECU and HV control ECU (no signal input)	• CAN communication system
U0111	531	CAN communication problem between battery ECU and HV control ECU (CAN communication system malfunction)	• CAN communication system
U0129	220	CAN communication problem between skid control ECU and HV control ECU (no signal input)	• CAN communication system
U0129	222	CAN communication problem between skid control ECU and HV control ECU (CAN communication system malfunction)	• CAN communication system
U0129	528	CAN communication problem between skid control ECU and HV control ECU (transmission error)	• CAN communication system
U0129	529	CAN communication problem between skid control ECU and HV control ECU (regenerative torque malfunction)	• CAN communication system
U0131	433	CAN communication problem between power steering ECU and HV control ECU (no signal input)	• CAN communication system
U0131	434	CAN communication problem between power steering ECU and HV control ECU (CAN communication system malfunction)	• CAN communication system
U0146	435	CAN communication problem between gateway ECU and HV control ECU (no signal input)	• CAN communication system

INSPECTION PROCEDURE

1	READ OUTPUT DTC(BUS CHECK)

(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: Bus Check / Communication Malfunction DTC.
(e) Read and record DTCs.

Result: Only DTC U0100 (INF 211) or U0129 (INF 220) is output

HINT:
When DTCs other than CAN communication malfunction DTCs are output simultaneously, first correct the CAN communication problem, and then perform troubleshooting for other DTCs.

YES → **Go to step 3**

NO

2 READ OUTPUT DTC(HYBRID CONTROL)

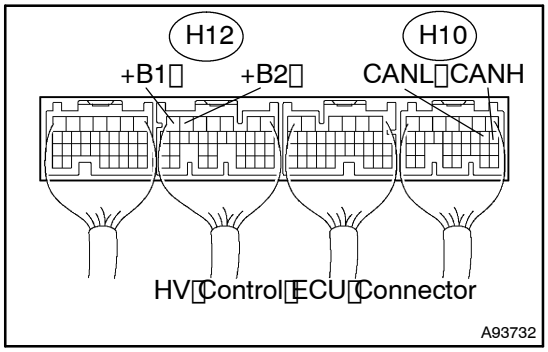
(a) Connect the Intelligent tester II to the DLC3.
(b) Turn the power switch ON (IG).
(c) Turn the Intelligent tester II ON.
(d) On the Intelligent tester II, enter the following menus: Powertrain / Hybrid Control / DTC.
(e) Check if DTC P3108 (INF 594) is output.

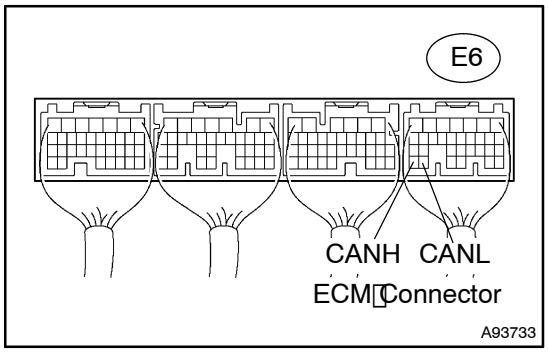
HINT:
DTC P3108 (INF 594) is one of the DTCs that indicates a CAN communication malfunction. If this DTC is present, record the DTC as the time of detection of other CAN communication malfunction DTCs.

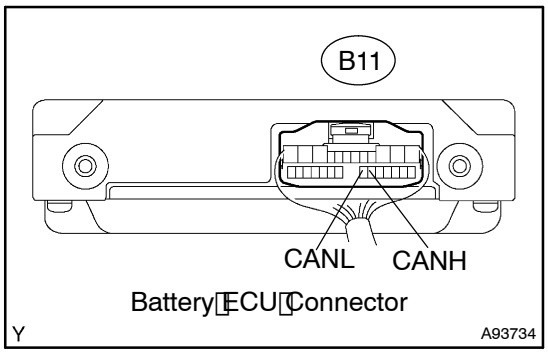
GO

GO TO CAN COMMUNICATION SYSTEM (See page 05–2312)

3 CHECK TERMINAL OF ECM AND ECUS(+B1, +B2, CANH AND CANL TERMINALS)







(a) Check connection condition of each connector of the HV control ECU, ECM and battery ECU, as well as contact condition of each terminal shown in the table below.

Type of ECU	Terminal No.	Symbols
HV control ECU	H12–7	+B1
HV control ECU	H12–6	+B2
HV control ECU	H10–8	CANH
HV control ECU	H10–9	CANL
ECM	E6–31	CANH
ECM	E6–30	CANL
Battery ECU	B11–18	CANH
Battery ECU	B11–19	CANL

OK: Connectors have been connected securely and there is no poor contact on each terminal.

NG → CONNECT SECURELY

OK

CHECK FOR INTERMITTENT PROBLEMS (See page 05–232)