CA

HOW TO PROCEED WITH TROUBLESHOOTING

NOTICE:
DTCs for the CAN communication system are as follows: U0073, U0100, U0122, U0123, U0124, U0126 and U1101.
HINT:
If U0235 or U1102 is output alone, the CAN communication is normal (See page CC-88 for U0235, See page CC-91 for U1102).

1	CHECK AND CLEAR DTCS

HINT:
- CAN communication DTCs are output when there is an open or short in any of the communication wires. Any problems with the power source of a corresponding ECU or sensor, or problems in the ECU or the sensor itself also cause these DTCs to be output.
- If a CAN communication wire connector is disconnected with the ignition switch on (IG), the ECUs of the corresponding system and related systems record a DTC.

NEXT

2	CHECK FOR INSTALLED SYSTEMS (ECUS & SENSORS) THAT ADOPT CAN COMMUNICATION)

(a) Check which of the following is adopted: brake control system and dynamic laser cruise control system (See page CA-17).

NEXT

3	CHECK WITH INTELLIGENT TESTER

(a) Using the intelligent tester, display the "Communication Bus Check" screen (See page CA-17).
(b) Observe the screen for approximately 1 minute to check the ECUs and sensors displayed on the screen.

Result

Result	Proceed to
All ECUs and sensors connected to the CAN communication system are not displayed on the screen. (Open in CAN bus main wire or short in CAN bus wire or DLC3 branch wire malfunction)	A
One of the ECUs and sensors connected to the CAN communication system is not displayed on the screen. (Open in ECU or sensor branch wires, or communication interrupted)	B
Some of the ECUs and sensors connected to the CAN communication system are not displayed on the screen. During this check, some ECUs and sensors repeatedly appear and disappear from the screen. (Open in one side of ECU or sensor branch wires)	C
All ECUs and sensors connected to the CAN communication system are displayed on the screen. (CAN bus circuit is currently normal)	D

NOTICE:
Non-installed ECUs or sensors will not be displayed. Do not mistake them for being in the communication stop mode.
HINT:
The ECUs and sensors that repeatedly appear and disappear from the screen during this check are considered normal. (The response to the intelligent tester and the tester display are affected by signals output from other ECUs which have an open circuit in either of their CAN branch wires.)

B	**COMMUNICATION STOP MODE TABLE (See page CA-9)**
C	**GO TO "OPEN IN ONE SIDE OF CAN BRANCH WIRE" (See page CA-90)**
D	**GO TO STEP 5**

A

4	**CHECK CAN BUS WIRE**

(a) Check the CAN bus wires (See page CA-35).
HINT:
If the area where an open or short is occurring in a CAN bus wire can be determined, refer to the "PROBLEM SYMPTOMS TABLE" (See page CA-9).

NEXT	**GO TO STEP 6**

5	**DTC COMBINATION TABLE**

(a) Confirm trouble according to the combination of output DTCs regarding the CAN communication system (See page CA-17).

NEXT

6	**CIRCUIT INSPECTION**

NEXT

7	**IDENTIFICATION OF PROBLEM**

NEXT

8	**REPAIR OR REPLACE**

NEXT

9	**CONFIRMATION TEST**

NEXT

END