05JWB–01

PRE–CHECK

1. MULTIPLEX COMMUNICATION SYSTEM (BEAN)

(a) The BEAN communication line is used for the body, meters and air conditioning controls. The communication line is loop–shaped. As result, even when a line is open, other lines will be able to maintain communication as long as they are not open. However, when a line becomes shorted (bus–down), all BEAN communication will not be possible and a DTC will be output.

HINT:

When a bus–down occurs, the communication from the related ECU will stop. Output of a DTC will be impossible. Perform a DTC (SAE code) inspection with the hand–held tester.

2. CHECK COMMUNICATION FUNCTION

(a) Inspect the battery positive voltage.

Standard: 10 to 14 V

(b) Perform a DTC check of the body ECU by connecting the hand–held tester to the DLC3 and turning the ignition switch ON.

(1) Check that the "ECU disconnected" DTC and the "communication bus short–circuit" DTC are not output.

3. CHECK OUTPUT OF DTC BY DOOR OPEN INDICATOR

(a) Inspect the battery positive voltage.

Standard: 10 to 14 V (when engine stopped)

(b) Check the DTC output.

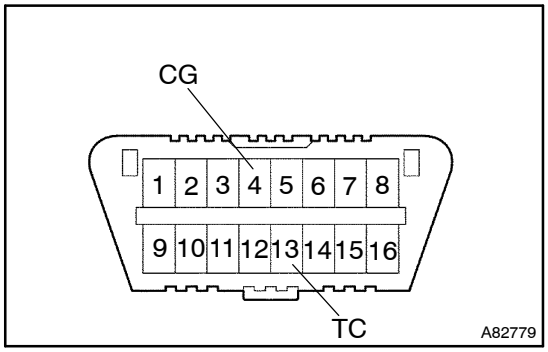
NOTICE:

Confirm that all of the parts mentioned in steps (1) to (4) below are functioning normally.

(1) Check that the door open indicator turns ON when one of the doors is opened.

HINT:

If the indicator is not ON, the following problems may be the cause: the door open indicator LED is defective, the wire harness is shorted, the courtesy light switch's condition is defective, or the multiplex body ECU is defective.



(2) Using SST (diagnosis check wire), make a short–circuit between terminals 13 (TC) and 4 (CG) of the DLC3 connector.

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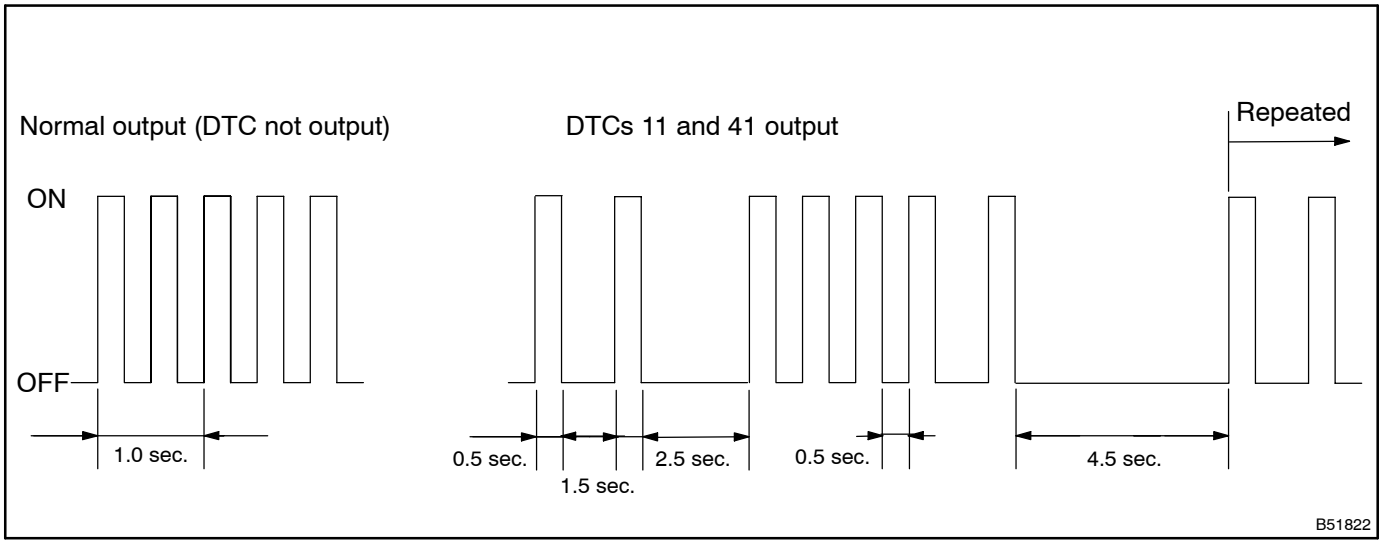
NOTICE:

Do not make a short–circuit in any other location.

(3) Turn the ignition switch ON and read the number of times the door open indicator flashes.

HINT:

When 2 or more codes are output simultaneously, the display will be started from the smallest numbered code.



(4) When the ”ECU disconnected ” DTC is output, preform troubleshooting for that DTC.

HINT:

- When the communication bus is defective, the door open indicator in the meter will not be ON. Therefore ON DTC will be output.
- When other DTCs are output, refer to the DTC chart and appropriate section.
- When the system is functioning normally but the normal function code (DTC B1200) is not output, a short circuit in the TC wire harness or the CG wire harness may be present.
- When the door open indicator is always ON, the wire harness might be short–circuited.

4. CHECK OUTPUT OF DTC WITH HAND–HELD TESTER

(a) Inspect the battery positive voltage.

Standard: 10 to 14 V

(b) Inspect the DTC monitor code output.

(1) Connect the hand–held tester to the DLC3 and turn the ignition (starter) switch ON, then check the DTC.

HINT:

When the DTC check is impossible, check the following items.

- ECU data monitor is possible (multiplex network body ECU is defective).
- The display shows a communication error (refer to the new diagnostic system and operations when error occurred) (see page 01–23).

(2) When the display shows DTCs that the ECU is unconnected and the communication bus is defective, perform an inspection depending on the troubleshooting.

HINT:

When other DTCs are output, refer to the DTC chart and appropriate section.