

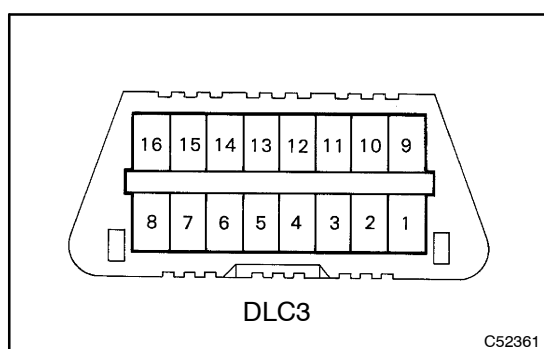
DIAGNOSIS SYSTEM

1. DESCRIPTION

- (a) When troubleshooting a vehicle with the diagnostic system, the only difference from the usual troubleshooting procedure is connecting the intelligent tester II to the vehicle and reading various data output from the vehicle's multiplex tilt & telescopic ECU.

The multiplex tilt & telescopic ECU records DTCs when the ECU detects a malfunction in the computer itself or in its circuits.

To check the DTCs, connect the intelligent tester II to the DLC3 on the vehicle. The intelligent tester II enables you to erase the DTCs, activate the several actuators and check freeze frame data and various forms of steering data.



2. DLC3 CHECK

- (a) Check the DLC3.
- (1) The multiplex tilt & telescopic ECU uses BEAN of ISO 9141-2 (Euro-OBD)/ISO 14230 (M-OBD) for communication protocol. The terminal arrangement of the DLC3 complies with ISO 15031-03 and matches the ISO 9141-2/ISO 14230 format.

Symbols (Terminal No.)	Terminal Description	Condition	Specified Condition
SIL (7) – SG (5)	Bus "+" line	During transmission	Pulse generation
CG (4) – Body ground	Chassis ground	Always	Below 1 Ω
SG (5) – Body ground	Signal ground	Always	Below 1 Ω
BAT (16) – Body ground	Battery positive	Always	11 to 14 V

HINT:

If the display shows "UNABLE TO CONNECT TO VEHICLE" after connecting the intelligent tester II cable to the DLC3 and turning the ignition switch to the ON position, there is a problem either with the vehicle or the tester.

- If communication is normal when connecting the tester to another vehicle, inspect the DLC3 on the original vehicle.
- If communication is still not possible when connecting the tester to another vehicle, the problem is probably in the tester itself. Consult the Service Department listed in the tester's operator's manual.

3. DIAGNOSTIC FUNCTION

- (a) When trouble occurs in the system, the ECU records the result of the diagnosis.

HINT:

Do not disconnect the fuse and battery terminal until diagnosis is complete. If they are disconnected, the data in the computer's memory will be cleared.