

DIAGNOSIS SYSTEM

1. DESCRIPTION

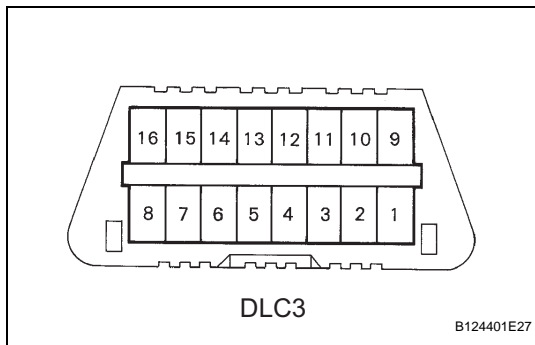
- (a) When troubleshooting a vehicle with the diagnostic system, the only difference from the usual troubleshooting procedure is connecting the intelligent tester to the vehicle and reading various data output from the vehicle's multiplex tilt and telescopic ECU.

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

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

2. DLC3 CHECK

- (a) The multiplex tilt and telescopic ECU follows the ISO 9141-2 communication protocol. The terminal arrangement of DLC3 complies with SAE J1962 and matches the ISO 9141-2 format.



Terminal No.	Connection	Voltage or Resistance	Condition
4	Chassis Ground	↔ Body Ground 1 Ω or less	Always
5	Signal Ground	↔ Body Ground 1 Ω or less	Always
7	Bus + Line	Pulse generation	During transmission
16	Battery Positive	↔ Body Ground 10 - 14 V	Always

HINT:

If the display shows "UNABLE TO CONNECT TO VEHICLE" after connecting the intelligent tester cable to the DLC3 and turning the ignition switch to the ON position, there is a problem either with the vehicle or 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 on the tester itself, so consult the Service Department Listed in the tester's operator's manual.

DTC CHECK / CLEAR

1. CHECK DTC

- (a) Prepare the intelligent tester .
- (b) Connect the intelligent tester to the DLC3 at the lower part of the instrument panel.
- (c) Turn the ignition switch to the ON position and turn the intelligent tester on.
- (d) Use the intelligent tester to check the DTCs and the freeze frame data, and note or print the result (See the operator's manual for operating instructions.).
- (e) See page [SR-15](#). to confirm the details of the DTCs.

2. CLEAR DTC

- (a) The following procedures clear the DTCs and freeze frame data.
 - When using the intelligent tester:
Operate the intelligent tester. (See the operator's manual for operating instructions.).
 - When not using the intelligent tester:
Disconnect the battery terminals.