

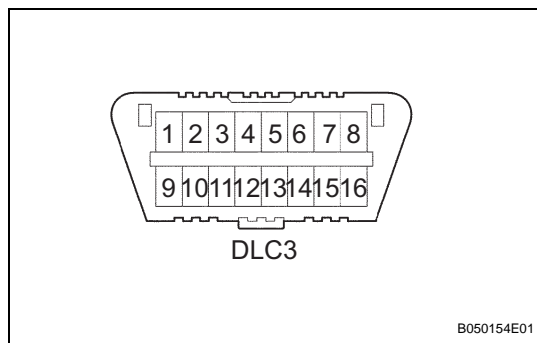
DIAGNOSIS SYSTEM

1. DESCRIPTION

- (a) The ECM controls the function of the immobiliser system on the vehicle.
- Data from the immobiliser system and the Diagnostic Trouble Code (DTC) can be read in the Data Link Connector 3 (DLC3) of the vehicle. When a malfunction occurs in the immobiliser system, even though the security indicator lamp does not come on, DTCs can be checked.
- Therefore, when the immobiliser system seems to be a malfunction, use the intelligent tester to check for a malfunction and repair it.

2. CHECK DLC3

- (a) The vehicle's ECM uses the ISO 9141-2 for communication protocol. The terminal arrangement of the DLC3 complies with the SAEJ1962 and matches the ISO 9141-2 format.

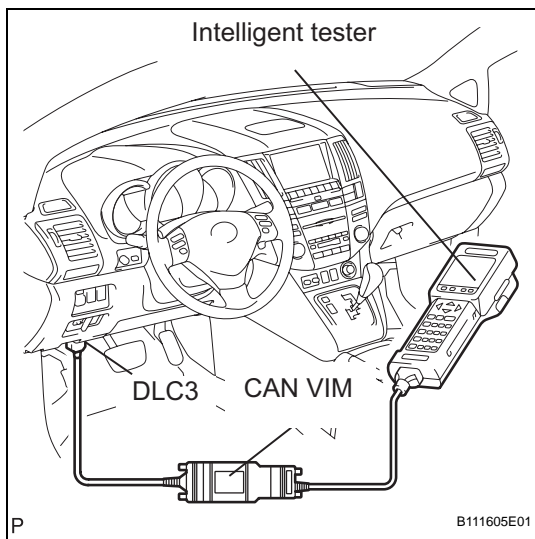


Tester Connection	Condition	Specified Condition
7 (Bus+line) - 5 (Signal ground)	During communication	Pulse generation
4 (Chassis ground) - Body ground	Always	Below 1 Ω
5 (Signal ground) - Body ground	Always	Below 1 Ω
16 (B+) - Body ground	Always	9 to 14 V

HINT:

If the screen displays a communication error message after you have connected the cable of the intelligent tester to the DLC3, turned the ignition switch ON and used the intelligent tester, the problem may be on the vehicle side or the tester side.

- If communication is normal when the tester is connected to another vehicle, inspect the DLC3 of the original vehicle.
- If communication is still impossible when the tester is connected to another vehicle, the problem may be in the tester itself, so consult the Service Department listed in the tester's instruction manual.



DTC CHECK / CLEAR

1. CHECK DTC

- (a) Connect the intelligent tester to the Controller Area Network Vehicle Interface Module (CAN VIM). Then connect the CAN VIM to the DLC3.
- (b) Turn the ignition switch on.
- (c) Turn the tester ON.
- (d) Enter the following menu items: DIAGNOSIS / OBD/ MOBD / IMMOBILISER / DTC INFO / CURRENT CODES.
- (e) Check the DTC(s) and freeze frame data, and then write down.
- (f) Check the details of the DTC(s) (See page [EI-17](#)).

2. CLEAR THE DTC

- (a) Connect the intelligent tester (with CAN VIM) to the DLC3.
- (b) Turn the ignition switch on.
- (c) Turn the tester ON.
- (d) Enter the following menu items: DIAGNOSIS / OBD/ MOBD / IMMOBILISER / DTC INFO / CLEAR CODES.
- (e) Press the YES button.