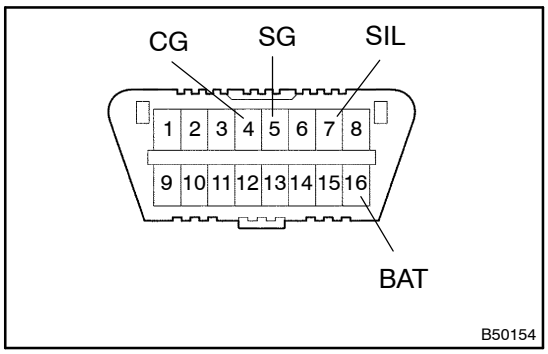
05JYU–01

# PRE–CHECK




## 1. DIAGNOSIS SYSTEM

(a) Inspect the DLC3.
The vehicle's ECM uses the ISO 14230 for communication protocol. The terminal arrangement of the DLC3 complies with SAE J1962 and matches the ISO 14230 format.

**Standard:**

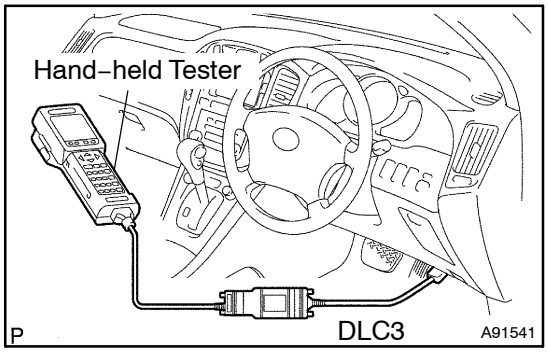
| Symbols | Terminal No. | Name | Reference terminal | Result | Condition |
|---|---|---|---|---|---|
| SIL | 7 | Bus" +" Line | 5 – Signal ground | Pulse generation | During transmission |
| CG | 4 | Chassis Ground | Body ground | Below 1 Ω | Constant |
| SG | 5 | Signal Ground | Body ground | Below 1 Ω | Constant |
| BAT | 16 | Battery positive | Body ground | 11 to 14 V | Constant |

If the result is not as specified, the DLC3 may have a malfunction. Repair or replace the harness and connector.

HINT:

Connect the cable of the hand–held tester to the DLC3, turn the ignition switch ON and attempt to use the hand–held tester. If the screen displays UNABLE TO CONNECT TO VEHICLE, a problem exists in 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. Consult the Service Department listed in the tester's instruction manual.




## 2. CHECK DTC

(a) Connect the hand–held tester to the DLC3.
(b) Turn the ignition switch ON.
(c) Read DTCs according to the display on the tester.

HINT:

Refer to the hand–held tester operator's manual for further details.

## 3. CLEAR DTC

(a) Connect the hand–held tester to the DLC3.
(b) Turn the ignition switch ON.
(c) Erase the DTCs according to the display on the tester.

HINT:

Refer to the hand–held tester operator's manual for further details.

## 4. DATA LIST

HINT:

Using the hand–held tester DATA LIST allows switch, sensor, actuator and other item values to be read without removing any parts. Reading the DATA LIST early in troubleshooting is one way to shorten labor time.

(a) Connect the hand–held tester to the DLC3.

(b) Turn the ignition switch ON.

(c) Read the DTCs according to the display on the tester.

**Multiplex network body ECU:**

| Item | Measurement Item/ Display (Range) | Normal Condition | Diagnostic Note |
|---|---|---|---|
| KEY SW | Key unlock warning switch signal/ON or OFF | ON: Key is in ignition key cylinder<br>OFF: Key is not in ignition key cylinder | – |
| OPEN DOOR WARN | Open door warning signal/ON or OFF | ON: Open door warning operates<br>OFF: Open door warning does not operate | – |