05HHZ–01

DIAGNOSIS SYSTEM

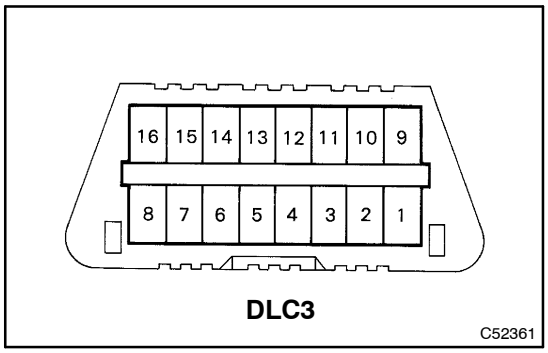
1. DESCRIPTION

The hybrid vehicle control ECU controls the cruise control function of the vehicle.

The DTCs and data stored in the cruise control system can be read from the DLC3 of the vehicle.

After checking for DTCs, if the CRUISE main indicator light does not come on, there may be a problem in the cruise control system.

Use the intelligent tester II to check and solve the problem.



DLC3

2. CHECK THE DLC3

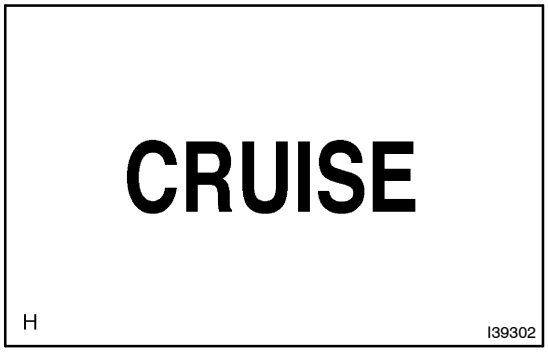
(a) The hybrid vehicle control ECU of the vehicle uses ISO 9141–2 (Eure–OBD)/ISO 14230(M–OBD)for communication. The terminal arrangement of the DLC3 complies with ISO 15031–03 and matches the ISO 9141–2/ ISO 14230 format.

Symbols (Terminals 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
CANH (6) – CANL (14)	HIGH–level CAN bus line	Power switch is off	54 to 67 Ω
CANH (6) – Battery positive	HIGH–level CAN bus line	Power switch is off	1 MΩ or higher
CANH (6) – CG (4)	HIGH–level CAN bus line	Power switch is off	3 kΩ or higher
CANL (14) – Battery positive	LOW–level CAN bus line	Power switch is off	1 MΩ or higher
CANL (14) – CG (4)	LOW–level CAN bus line	Power switch is off	3 kΩ or higher

HINT:

If the display shows "UNABLE TO CONNECT TO VEHICLE" after connecting the intelligent tester II to the DLC3 and turning the power switch on (IG), there is a problem on either the vehicle side or the tool side.

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



3. CHECK THE INDICATOR

(a) Turn the power switch on (IG).

(b) Check that the CRUISE main indicator light comes on when the cruise control main switch (ON–OFF button) is pushed on, and that the indicator light goes off when the ON–OFF button is pushed off.

HINT:

- If there is a problem with the indicator light, inspect the cruise main indicator light circuit (see page 05–2477).
- If a malfunction occurs in the vehicle speed sensor, stop lamp switch assy or other related parts while driving with cruise control, and the hybrid vehicle control ECU activates AUTO CANCEL of the cruise control and then the CRUISE main indicator light starts to blink, informing the driver of the malfunction. At the same time, data of the malfunction is stored as a DTC.