

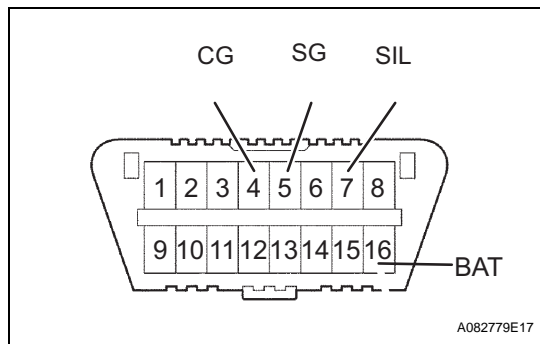
DIAGNOSIS SYSTEM

1. DESCRIPTION

- (a) The defogger system data can be read in the Data Link Connector 3 (DLC3) of the vehicle. When the system seems to be malfunctioning, use the intelligent tester to check for malfunctions and perform repairs.

2. CHECK DLC3

- (a) The vehicle uses the ISO 15765-4 for communication protocol. The terminal arrangement of the DLC3 complies with SAE J1962 and matches the ISO 15765-4 format.



Standard voltage

Symbol (Terminal No.)	Terminal Description	Condition	Specified Condition
SIL (7) - SG (5)	Bus "+" line	During transmission	Pulse generation
BAT (16) - Body ground	Battery positive	Always	10 to 14 V

Standard resistance

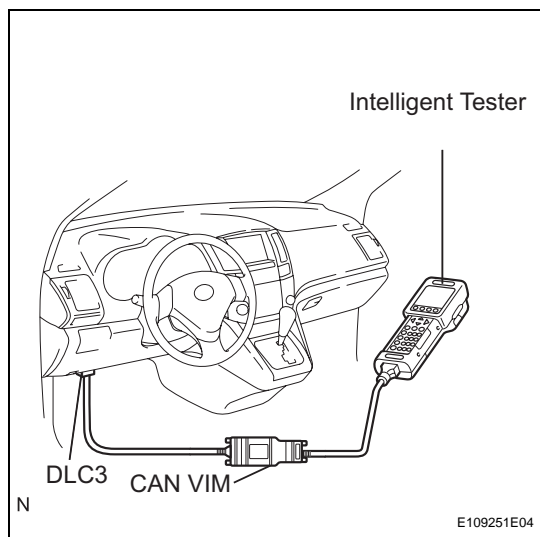
Symbol (Terminal No.)	Terminal Description	Condition	Specified Condition
CG (4) - Body ground	Chassis ground	Always	Below 1 Ω
SG (5) - Body ground	Signal ground	Always	Below 1 Ω
CANH (6) - CANL (14)	HIGH-level CAN bus line	Engine switch off	54 to 67 Ω
CANH (6) - Body positive (+)	HIGH-level CAN bus line	Engine switch off	1 MΩ or higher
CANH (6) - CG (4)	HIGH-level CAN bus line	Engine switch off	3 MΩ or higher
CANL (14) - Body positive (+)	LOW-level CAN bus line	Engine switch off	1 MΩ or higher
CANL (14) - CG (4)	LOW-level CAN bus line	Engine switch off	3 MΩ or higher

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 intelligent tester (with CAN VIM) to the DLC3, turn the engine switch on (IG) and attempt to use the intelligent tester. If the display indicates that a communication error has occurred, there is a problem either with the vehicle or with the intelligent tester.

- If communication is normal when the tester is connected to another vehicle, inspect the DLC3 of the original vehicle.
- If communication is still not possible when the tester is connected to another vehicle, the problem may be in the intelligent tester itself. Consult the Service Department listed in the tester's instruction manual.



3. CHECK BATTERY VOLTAGE

Standard voltage:

11 to 14 V

If the voltage is below 11 V, recharge or replace the battery before proceeding.