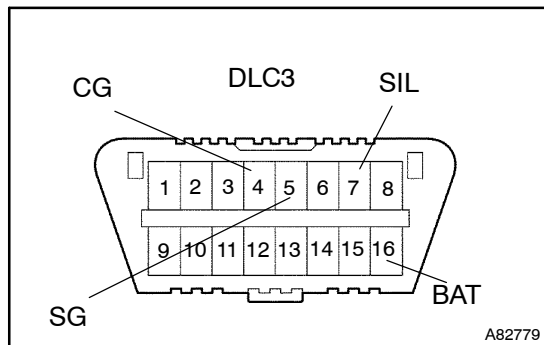


## DIAGNOSIS SYSTEM

### 1. DESCRIPTION

- (a) The door ECUs control the power window control system functions on the vehicle. Power window control system data and the Diagnostic Trouble Code (DTC) can be read in the Data Link Connector 3 (DLC3) of the vehicle. When the system seems to be malfunctioning, use the intelligent tester II to check for malfunctions and perform repairs.



### 2. CHECK DLC3

#### HINT:

The vehicle uses ISO 9141-2 for communication. The terminal arrangement of the DLC3 complies with SAE J1962 and matches the ISO 9141-2 format.

Symbol	Terminal No.	Name	Reference terminal	Result	Condition
SIL	7		5-Signal ground	Pulse generation	During transmission
CG	4		Body ground	1 $\Omega$ or less	Constant
SG	5	Signal ground	Body ground	1 $\Omega$ or less	Constant
BAT	16		Body ground	9 to 14 V	Constant

#### HINT:

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

### 3. CHECK BATTERY VOLTAGE

**Standard: 11 to 14 V**

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