

# HOW TO PROCEED WITH TROUBLESHOOTING

## HINT:

- Use this procedure to troubleshoot the power window control system.
- The intelligent tester II should be used in step 3, 4 and 6.

### 1 VEHICLE BROUGHT TO WORKSHOP

### 2 CUSTOMER PROBLEM ANALYSIS CHECK AND SYMPTOM CHECK (See page 05-1982)

### 3 INSPECT COMMUNICATION FUNCTION OF LARGE-SCALE MULTIPLEX COMMUNICATION SYSTEM (BEAN)

- (a) Use the intelligent tester II to check for normal function of the multiplex communication system.
- (1) (ECU unconnected, communication line malfunctioning) Without code outputs, proceed to A.
  - (2) (ECU unconnected, communication line malfunctioning) With code outputs, proceed to B.

B

Go to MULTIPLEX COMMUNICATION SECTION  
(See page 05-3162)

A

### 4 DTC CHECK (See page 05-1995)

- (a) Check for DTC and note any codes that are output.
- (b) Delete the DTC.
- (c) Recheck for DTCs. Try to prompt the DTC by simulating the original activity that the DTC suggests.
- (1) If the DTC does not reoccur, proceed to A.
  - (2) If the DTC reoccurs, proceed to B.

B

Go to step 6

A

### 5 PROBLEM SYMPTOMS TABLE (See page 05-1985)

- (a) If the fault is not listed on the problem symptoms table, proceed to A.
- (b) If the fault is listed on the problem symptoms table, proceed to B.

B

Go to step 7

A

**6 OVERALL ANALYSIS AND TROUBLESHOOTING**

- (a) DATA LIST/ACTIVE TEST ([see page 05-1996](#))  
    (1) Inspection with the Intelligent Tester II (DATA LIST)  
    (2) Inspection with the Intelligent Tester II (ACTIVE TEST)  
(b) On-vehicle inspection ([see page 05-2061](#))  
(c) Inspection ([see page 05-2065](#))  
(d) Terminal of ECU ([see page 05-1987](#))

**7 ADJUST, REPAIR OR REPLACE****8 CONFIRMATION TEST****END**