1. SYSTEM DESCRIPTION
   (a) The ECT (Electronic controlled automatic transmission) is an automatic transmission that electronically controls shift timing using the ECM. The ECM detects electrical signals that indicate engine and driving conditions, and controls the shift point, based on driver habits and road conditions. As a result, fuel efficiency and power transmission performance are improved. Shift shock has been reduced by controlling the engine and transmission simultaneously. In addition, the ECT has features such as follows:
   - Diagnostic function.
   - Fail-safe function when a malfunction occurs.
HOW TO PROCEED WITH TROUBLESHOOTING

HINT:
• The ECM of this system is connected to the CAN communication system. Therefore, before starting troubleshooting, make sure that there is no trouble in the CAN communication system.
• *: Use the intelligent tester.

1 VEHICLE BROUGHT TO WORKSHOP

2 CUSTOMER PROBLEM ANALYSIS

3 CONNECT INTELLIGENT TESTER TO DLC3 *

4 CHECK AND CLEAR DTCS AND FREEZE FRAME DATA *

Refer to the DTC CHECK / CLEAR (See page AT-33).

5 VISUAL INSPECTION

6 SETTING CHECK MODE DIAGNOSIS *

Refer to the CHECK MODE PROCEDURE (See page AT-33).

7 PROBLEM SYMPTOM CONFIRMATION

Refer to the ROAD TEST (See page AT-13).

Result

<table>
<thead>
<tr>
<th>Result</th>
<th>Proceed to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symptom does not occur</td>
<td>A</td>
</tr>
<tr>
<td>Symptom occurs</td>
<td>B</td>
</tr>
</tbody>
</table>
Refer to the ELECTRONIC CIRCUIT INSPECTION PROCEDURE (See page IN-44).

Refer to the DTC CHECK / CLEAR (See page AT-33).

Refer to the AUTOMATIC TRANSMISSION FLUID (See page AT-140).

Refer to the PARK/NEUTRAL POSITION SWITCH (See page AT-154).

Refer to the FLOOR SHIFT ASSEMBLY (See page AT-166).

Refer to the MECHANICAL SYSTEM TEST (See page AT-16).

Refer to the HYDRAULIC TEST (See page AT-18).
13 MANUAL SHIFTING TEST
Refer to the MANUAL SHIFTING TEST (See page AT-19).

NG \[\rightarrow\] GO TO STEP 15

OK

14 PROBLEM SYMPTOMS TABLE CHAPTER 1
Refer to the PROBLEM SYMPTOMS TABLE (See page AT-22).

NG \[\rightarrow\] GO TO STEP 18

OK

15 PROBLEM SYMPTOMS TABLE CHAPTER 2
Refer to the PROBLEM SYMPTOMS TABLE (See page AT-22).

NEXT

16 PART INSPECTION

NEXT \[\rightarrow\] GO TO STEP 19

17 DTC CHART
Refer to the DIAGNOSTIC TROUBLE CODE CHART (See page AT-40).

NEXT

18 CIRCUIT INSPECTION

NEXT

19 REPAIR OR REPLACE

NEXT
20 CONFRIMATION TEST

NEXT

END