

SYSTEM DESCRIPTION

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

NEXT

2 CUSTOMER PROBLEM ANALYSIS

NEXT

3 CONNECT INTELLIGENT TESTER TO DLC3 *

NEXT

4 CHECK AND CLEAR DTCS AND FREEZE FRAME DATA *

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

NEXT

5 VISUAL INSPECTION

NEXT

6 SETTING CHECK MODE DIAGNOSIS *

Refer to the CHECK MODE PROCEDURE (See page [AT-34](#)).

NEXT

7 PROBLEM SYMPTOM CONFIRMATION

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

Result

Result	Proceed to
Symptom does not occur	A
Symptom occurs	B

B **GO TO STEP 9**

A

8 SYMPTOM SIMULATION

Refer to the ELECTRONIC CIRCUIT INSPECTION PROCEDURE (See page [IN-44](#)).

NEXT

9 DTC CHECK *

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

Result

Result	Proceed to
DTC is not output	A
DTC is output	B

B **GO TO STEP 17**

A

10 BASIC INSPECTION

Refer to the AUTOMATIC TRANSMISSION FLUID (See page [AT-147](#)).

Refer to the PARK/NEUTRAL POSITION SWITCH (See page [AT-159](#)).

Refer to the FLOOR SHIFT ASSEMBLY (See page [AT-171](#)).

NG **GO TO STEP 19**

OK

AT

11 MECHANICAL SYSTEM TEST

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

NG **GO TO STEP 16**

OK

12 HYDRAULIC TEST

Refer to the HYDRAULIC TEST (See page [AT-18](#)).

NG **GO TO STEP 16**

OK

13 MANUAL SHIFTING TEST

Refer to the MANUAL SHIFTING TEST (See page [AT-19](#)).

NG**GO TO STEP 15****OK****14** PROBLEM SYMPTOMS TABLE CHAPTER 1

Refer to the PROBLEM SYMPTOMS TABLE (See page [AT-23](#)).

NG**GO TO STEP 18****OK****15** PROBLEM SYMPTOMS TABLE CHAPTER 2

Refer to the PROBLEM SYMPTOMS TABLE (See page [AT-23](#)).

NEXT**16** PART INSPECTION**NEXT****GO TO STEP 19****17** DTC CHART

Refer to the DIAGNOSTIC TROUBLE CODE CHART (See page [AT-41](#)).

NEXT**18** CIRCUIT INSPECTION**NEXT****19** REPAIR OR REPLACE**NEXT**

20

CONFIRMATION TEST

NEXT

END