SYSTEM DESCRIPTION

1. SYSTEM DESCRIPTION

(a) The Electronic Controlled Automatic Transaxle (ECT) is an automatic transaxle that electronically controls shift timing using the Engine Control Module (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 transaxle performance are improved.
Shift shock is reduced by controlling the engine and transaxle simultaneously.
In addition, the ECT has the following features:

- 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 and multiplex communication system. Therefore, before starting troubleshooting, make sure to check that there is no trouble in the CAN and multiplex communication systems.
- *: Use the intelligent tester.

1	VEHICLE BROUGHT TO WORKSHOP

NEXT

2	CUSTOMER PROBLEM ANALYSIS

NEXT

3	INSPECT BATTERY VOLTAGE

Standard voltage:
11 to 14 V

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

NEXT

4	CONNECT INTELLIGENT TESTER TO DLC3*

NEXT

5	CHECK AND CLEAR DTCS AND FREEZE FRAME DATA*

(a) Refer to the DTC CHECK / CLEAR (see page AX-29).

NEXT

6	VISUAL INSPECTION

NEXT

7	SETTING CHECK MODE DIAGNOSIS*

(a) Refer to the CHECK MODE PROCEDURE (see page AX-30).

NEXT

8	PROBLEM SYMPTOM CONFIRMATION

(a) Refer to the ROAD TEST (see page AX-12).

Result

Result	Proceed to
Symptom does not occur	A
Symptom occurs	B

B → GO TO STEP 10

A

9	SYMPTOM SIMULATION

(a) Refer to the ELECTRONIC CIRCUIT INSPECTION PROCEDURE (see page IN-37).

NEXT

10	DTC CHECK*

(a) Refer to the DTC CHECK / CLEAR (see page AX-29).

Result

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

B → GO TO STEP 18

A

11	BASIC INSPECTION

(a) Refer to the AUTOMATIC TRANSMISSION FLUID (see page AX-102).

(b) Refer to the PARK/NEUTRAL POSITION SWITCH (see page AX-108).

(c) Refer to the FLOOR SHIFT ASSEMBLY (see page AX-136).

NG → GO TO STEP 21

OK

AX

12	MECHANICAL SYSTEM TESTS

(a) Refer to the MECHANICAL SYSTEM TESTS (see page AX-15).

NG → GO TO STEP 17

OK

13 HYDRAULIC TEST

(a) Refer to the HYDRAULIC TEST (see page AX-16).

NG → GO TO STEP 17

OK

14 MANUAL SHIFTING TEST

(a) Refer to the MANUAL SHIFTING TEST (see page AX-17).

NG → GO TO STEP 16

OK

15 PROBLEM SYMPTOMS TABLE CHAPTER 1

(a) Refer to the PROBLEM SYMPTOMS TABLE (see page AX-21).

NG → GO TO STEP 19

OK

16 PROBLEM SYMPTOMS TABLE CHAPTER 2

(a) Refer to the PROBLEM SYMPTOMS TABLE (see page AX-21).

NEXT

17 PART INSPECTION

NG → GO TO STEP 21

OK

18 DTC CHART

(a) Refer to the DIAGNOSTIC TROUBLE CODE CHART (see page AX-35).

NEXT

19	CIRCUIT INSPECTION

NEXT

20	IDENTIFICATION OF PROBLEM

NEXT

21	REPAIR OR REPLACE

NEXT

22	CONFIRMATION TEST

NEXT

END