

## 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.

**AX****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-33](#)).

**NEXT****6 VISUAL INSPECTION****NEXT****7 SETTING CHECK MODE DIAGNOSIS\***

(a) Refer to the CHECK MODE PROCEDURE (see page [AX-34](#)).

NEXT

**8** PROBLEM SYMPTOM CONFIRMATION

AX

(a) Refer to the ROAD TEST (see page [AX-13](#)).

**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-33](#)).

**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-126](#)).

(b) Refer to the PARK/NEUTRAL POSITION SWITCH (see page [AX-132](#)).

(c) Refer to the FLOOR SHIFT ASSEMBLY (see page [AX-162](#)).

**NG** GO TO STEP 21

OK

**12** MECHANICAL SYSTEM TESTS

(a) Refer to the MECHANICAL SYSTEM TESTS (see page [AX-16](#)).

NG

GO TO STEP 17

OK

**13** HYDRAULIC TEST(a) Refer to the HYDRAULIC TEST (see page [AX-18](#)).

NG

GO TO STEP 17

OK

**14** MANUAL SHIFTING TEST(a) Refer to the MANUAL SHIFTING TEST (see page [AX-19](#)).

NG

GO TO STEP 16

OK

**15** PROBLEM SYMPTOMS TABLE CHAPTER 1(a) Refer to the PROBLEM SYMPTOMS TABLE (see page [AX-23](#)).

NG

GO TO STEP 19

OK

**16** PROBLEM SYMPTOMS TABLE CHAPTER 2(a) Refer to the PROBLEM SYMPTOMS TABLE (see page [AX-23](#)).

NEXT

**17** PART INSPECTION

NG

GO TO STEP 21

OK

**18** DTC CHART(a) Refer to the DIAGNOSTIC TROUBLE CODE CHART (see page [AX-40](#)).

NEXT

**19** | **CIRCUIT INSPECTION**

NEXT

**AX**

**20** | **IDENTIFICATION OF PROBLEM**

NEXT

**21** | **REPAIR OR REPLACE**

NEXT

**22** | **CONFIRMATION TEST**

NEXT

**END**