

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 and multiplex communication system. Therefore, before starting troubleshooting, make sure that there is no trouble in the CAN and multiplex communication system.
- The intelligent tester can be used at steps 3, 4, 6, and 9.

1 Vehicle Brought to Workshop

NEXT

2 Customer Problem Analysis

NEXT

3 Connect the intelligent tester to DLC3

NEXT

4 Check and Clear DTC and Freeze Frame Data (See page [AT-25](#))

NEXT

5 Visual Inspection

NEXT

6 Setting the Check Mode Diagnosis (See page [AT-26](#))

NEXT

7 Problem Symptom Confirmation (See page [AT-9](#))

Result	Proceed To
Symptom does not occur	A
Symptom occurs	B

B

Go to step 9

A

AT

8 Symptom Simulation (See page [IN-26](#))

NEXT

9 DTC Check (See page [AT-25](#))

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

B Go to step 17

A

10 Basic Inspection (See page [AT-85](#), [AT-92](#) and [AT-105](#))

NG Go to step 19

OK

11 Mechanical System Test (See page [AT-12](#))

NG Go to step 16

OK

12 Hydraulic Test (See page [AT-14](#))

NG Go to step 16

OK

13 Manual Shifting Test (See page [AT-15](#))

NG Go to step 15

OK

14 Problem Symptoms Table Chapter 1 (See page [AT-17](#))

NG Go to step 18

OK

15 Problem Symptoms Table Chapter 2 (See page [AT-17](#))

NEXT

16 Part Inspection

NEXT

17 DTC Chart (See page [AT-30](#))

NEXT

18 Circuit Inspection

NEXT

19 Repair or Replace

NEXT

20 Confirmation Test

NEXT

End