

PROBLEM SYMPTOMS TABLE

HINT:

- If a normal code is displayed during the diagnostic trouble code check although the trouble still occurs, check the electrical circuits for each symptom in the order given in the charts on the following pages and proceed to the page given for troubleshooting.
- The Matrix Chart is divided into 2 chapters.
- When the circuit on which mark *1 is attached is a malfunction, DTC could be output.

Refer to the table below when the trouble cause is considered to be electrical the instruction "Proceed to next circuit inspection shown on matrix chart" is given in the flow chart of each circuit, proceed to the circuit with the next highest number in the table to continue the check. If the trouble still occurs even though there are no abnormalities in any of the other circuits, check and replace the ECM.

1. Chapter 1: Electronic Circuit Matrix Chart

Symptom	Suspected area	See page
No down-shift (A particular gear, from 1st to 4th gear, is not down-shifted)	ECM	IN-31
No down-shift (5th -> 4th)	1. Park/neutral position switch circuit *1	AX-42
	2. Shift solenoid valve (S4) circuit *1	AX-108
	3. ECM	IN-31
No up-shift (A particular gear, from 1st to 4th gear, is not up-shifted)	ECM	IN-31
No up-shift (4th -> 5th)	1. Park/neutral position switch circuit *1	AX-42
	2. Shift solenoid valve (S4) circuit *1	AX-108
	3. ECM	IN-31
No lock-up	1. Stop light switch circuit *1	AX-62
	2. Engine coolant temp. sensor circuit *1	ES-37
	3. ECM	IN-31
No lock-up off	ECM	IN-31
Shift point too high or too low	1. Throttle position sensor circuit *1	ES-37
	2. ECM	IN-31
Up-shift to 5th from 4th while shift lever is in 4 position *2	1. Park/neutral position switch circuit *1	AX-42
	2. ECM	IN-31
Up-shift to 5th from 4th while engine is cold	1. Engine coolant temp. sensor circuit *1	ES-37
	2. ECM	IN-31
Up-shift to 2nd from 1st while shift lever is in L position *2	1. Park/neutral position switch circuit *1	AX-42
	2. ECM	IN-31
No gear change by shifting into "+" or "-" while the shifting lever is in the S position	1. Transmission control switch circuit	AX-121
	2. ECM	IN-31
Harsh engagement (N -> D)	1. Shift solenoid valve (SL1) circuit *1	AX-75
	2. ECM	IN-31
Harsh engagement (Lock-up)	ECM	IN-31
Harsh engagement (Any driving position)	ECM	IN-31
Poor acceleration	1. Pattern select switch circuit (ECT SNOW switch)	AX-125
	2. Multiplex network body ECU	MP-20
	3. ECM	IN-31
No kick-down	ECM	IN-31
Engine stalls when starting off or stopping	ECM	IN-31

Symptom	Suspected area	See page
ECT SNOW does not operate	1. Pattern select switch circuit (ECT SNOW switch)	AX-125
	2. Multiplex network body ECU	MP-20
	3. ECM	IN-31
Malfunction in shifting	1. Park/neutral position switch circuit *1	AX-42
	2. Transmission control switch circuit *3	AX-121
	3. ECM	IN-31

HINT:

*1: When the circuit on which mark *1 is detective, a DTC may be output.

*2: Gate shift lever type

*3: Shift lever with Multi-mode automatic transmission type

2. Chapter 2: On-Vehicle Repair and Off-Vehicle Repair

Symptom	Suspected area	See page
Vehicle does not move in any forward position and in reverse positions	1. Valve body assembly	AX-148
	2. U/D brake (B3)	AX-196
	3. Torque converter clutch	AX-189
Vehicle does not move in R position	1. Valve body assembly	AX-148
	2. Reverse clutch (C2)	AX-196
	3. 1st and reverse brake (B2)	AX-196
No up-shift (1st -> 2nd)	1. Valve body assembly	AX-148
	2. 2nd and O/D brake (B1)	AX-196
No up-shift (2nd -> 3rd)	1. Valve body assembly	AX-148
	2. Direct and O/D clutch (C0)	AX-196
No up-shift (3rd -> 4th)	1. Valve body assembly	AX-148
	2. 2nd and O/D brake (B1)	AX-196
No up-shift (4th -> 5th)	1. Shift solenoid valve (S4)	AX-79
	2. Valve body assembly	AX-148
	3. U/D clutch (C3)	AX-196
No down-shift (5th -> 4th)	1. Shift solenoid (S4)	AX-79
	2. Valve body assembly	AX-148
No down-shift (4th -> 3rd)	Valve body assembly	AX-148
No down-shift (3rd -> 2nd)	Valve body assembly	AX-148
No down-shift (2nd -> 1st)	Valve body assembly	AX-148
No lock-up or No lock-up off	1. Shift solenoid valve (DSL)	AX-65
	2. Valve body assembly	AX-148
	3. Torque converter clutch	AX-189
Harsh engagement (N -> D)	1. Shift solenoid valve (SL1)	AX-71
	2. Valve body assembly	AX-148
	3. C1 accumulator	AX-196
	4. Forward clutch (C1)	AX-196
	5. One-way clutch No.1 (F1)	AX-196
	6. U/D one-way clutch (F2)	AX-196
Harsh engagement (Lock-up)	1. Shift solenoid valve (SL2)	AX-87
	2. Valve body assembly	AX-148
	3. Torque converter clutch	AX-189
Harsh engagement (N -> R)	1. Valve body assembly	AX-148
	2. C2 accumulator	AX-196
	3. Reverse clutch (C2)	AX-196
	4. 1st and reverse brake (B2)	AX-196

Symptom	Suspected area	See page
Harsh engagement (1st -> 2nd -> 3rd -> 4th -> 5th)	1. Shift solenoid valve (SLT)	AX-114
	2. Valve body assembly	AX-148
Harsh engagement (1st -> 2nd)	1. Valve body assembly	AX-148
	2. 2nd and O/D brake (B1)	AX-196
Harsh engagement (2nd -> 3rd)	1. Valve body assembly	AX-148
	2. C0 accumulator	AX-196
	3. Direct and O/D clutch (C0)	AX-196
Harsh engagement (3rd -> 4th)	1. Valve body assembly	AX-148
	2. 2nd and O/D brake (B1)	AX-196
Harsh engagement (4th -> 5th)	1. Valve body assembly	AX-148
	2. C3 accumulator	AX-196
	3. U/D clutch (B3)	AX-196
Harsh engagement (5th -> 4th)	1. Valve body assembly	AX-148
	2. B3 accumulator	AX-196
Slip or shudder (Forward and reverse: After warm-up)	1. Valve body assembly	AX-148
	2. Oil strainer	AX-148
	3. Direct and O/D clutch (C0)	AX-196
	4. Forward clutch (C1)	AX-196
	5. U/D clutch (C3)	AX-196
	6. 2nd and brake (B1)	AX-196
	7. U/D brake (B3)	AX-196
	8. One-way clutch No.1 (F1)	AX-196
	9. U/D one-way clutch (F2)	AX-196
	10. Torque converter clutch	AX-189
Slip or shudder (Particular position: Just after engine starts)	Torque converter clutch	AX-189
Slip or shudder (R position)	1. Reverse clutch (C2)	AX-196
	2. 1st and reverse brake (B2)	AX-196
Slip or shudder (1st)	1. Forward clutch (C1)	AX-196
	2. One-way clutch No.1 (F1)	AX-196
	3. U/D one-way clutch (F2)	AX-196
Slip or shudder (2nd)	2nd and O/D brake (B1)	AX-196
Slip or shudder (3rd)	Direct and O/D clutch (C0)	AX-196
Slip or shudder (4th)	2nd and O/D brake (B1)	AX-196
Slip or shudder (5th)	U/D clutch (C3)	AX-196
Shift position too high or too low	Shift solenoid valve (SLT)	AX-114
No engine braking (1st +- 4th: D position)	U/D brake (B3)	AX-196
No engine braking (1st: L (1) position)	1. Valve body assembly	AX-148
	2. 1st and reverse brake (B2)	AX-196
No engine braking (2nd: 2 position)	1. Valve body assembly	AX-148
	2. 2nd and O/D brake (B1)	AX-196
No engine braking (3rd: 3 position)	U/D brake (B3)	AX-196
No kick-down	Valve body assembly	AX-148
Poor acceleration (All positions)	1. Shift solenoid valve (SLT)	AX-114
	2. Torque converter clutch	AX-189
Poor acceleration (5th)	1. U/D clutch (C3)	AX-196
	2. U/D planetary gear unit	AX-196
Engine stalls when starting off or stopping	1. Shift solenoid valve DSL)	AX-65
	2. Torque converter clutch	AX-189