

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 up-shift (A particular gear, from 1st to 3rd gear, is not up-shifted)	ECM	IN-28
No up-shift (3rd -> O/D)	1. O/D main switch circuit	AX-69
	2. ECM	IN-28
No down-shift (O/D -> 3rd)	1. O/D main switch circuit	AX-69
	2. ECM	IN-28
No down-shift (A particular gear, from 3rd to 1st gear, is not down-shifted)	ECM	IN-28
No lock-up or No lock-up off	1. Shift solenoid valve (SL) circuit *1	AX-66
	2. Stop light switch circuit *1	AX-38
	3. Engine coolant temp. sensor circuit *1	ES-38
	4. ECM	IN-28
Shift point too high or too low	1. Throttle position sensor circuit *1	ES-38
	2. Shift solenoid valve (SLT) circuit *1	AX-62
	3. Engine coolant temp. sensor circuit *1	ES-38
	4. ECM	IN-28
Up-shift to 2nd while in L position	ECM	IN-28
Up-shift to 3rd while in 2 position	ECM	IN-28
Up-shift to O/D from 3rd while O/D main switch is OFF	1. O/D main switch circuit	AX-69
	2. ECM	IN-28
Up-shift to O/D from 3rd while engine is cold	1. Engine coolant temp. sensor circuit *1	ES-38
	2. ECM	IN-28
Harsh engagement (N -> D)	ECM	IN-28
Harsh engagement (Lock-up)	ECM	IN-28
Harsh engagement (Any driving position)	1. Shift solenoid valve (SLT) circuit *1	AX-62
	2. ECM	IN-28
Poor acceleration	1. Shift solenoid valve (SLT) circuit *1	AX-62
	2. ECM	IN-28
Engine stalls when starting off or stopping	1. Shift solenoid valve (SL) circuit *1	AX-66
	2. ECM	IN-28
No kick-down	ECM	IN-28

Symptom	Suspected area	See page
Malfunction in shifting	1. Park/neutral position switch circuit *1	AX-33
	2. O/D main switch circuit	AX-69
	3. ECM	IN-28

HINT:

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

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

Symptom	Suspected area	See page
Does not move in any forward positions	Forward clutch (C1)	AX-144
Does not move in reverse position	1. Direct clutch (C2)	AX-144
	2. 1st and reverse brake (B3)	AX-144
	3. U/D brake (B4)	AX-144
Does not move in any position	1. Valve body assembly (Primary regulator valve)	AX-82
	2. Valve body assembly (Manual valve)	AX-82
	3. Torque converter clutch	AX-137
	4. Oil pump	AX-144
	5. U/D one-way clutch (F3)	AX-144
	6. Front planetary gear	AX-144
	7. Rear planetary gear	AX-144
No-up shift (1st -> 2nd)	1. Valve body assembly (1 - 2 shift valve)	AX-82
	2. 2nd brake (B2)	AX-144
	3. No. 1 one-way clutch (F1)	AX-144
No-up shift (2nd -> 3rd)	1. Valve body assembly (2 - 3 shift valve)	AX-82
	2. Direct clutch (C2)	AX-144
No-up shift (3rd -> O/D)	1. Valve body assembly (3 - 4 shift valve)	AX-82
	2. U/D clutch (C3)	AX-144
No-down shift (O/D -> 3rd)	1. Valve body assembly (3 - 4 shift valve)	AX-82
	2. U/D brake (B4)	AX-144
	3. U/D one-way clutch (F3)	AX-144
No-down shift (3rd -> 2nd)	1. Valve body assembly (2 - 3 shift valve)	AX-82
	2. No. 1 one-way clutch (F1)	AX-144
No-down shift (2nd -> 1st)	1. Valve body assembly (1 - 2 shift valve)	AX-82
	2. No. 2 one-way clutch (F2)	AX-144
Harsh engagement (N -> R)	1. Valve body assembly (C2 accumulator)	AX-82
	2. Direct clutch (C2)	AX-144
	3. 1st and reverse brake (B3)	AX-144
Harsh engagement (N -> D)	1. Valve body assembly (C1 accumulator)	AX-82
	2. Forward clutch (C1)	AX-144
Harsh engagement (N -> L)	1. Valve body assembly (C1 accumulator)	AX-82
	2. Valve body assembly (Low coast modulator valve)	AX-82
	3. Forward clutch (C1)	AX-144
Harsh engagement (1st -> 2nd "D" position)	1. Valve body assembly (Accumulator control valve)	AX-82
	2. Valve body assembly (B2 accumulator)	AX-82
	3. 2nd brake (B2)	AX-144
	4. No. 1 one-way clutch (F1)	AX-144

Symptom	Suspected area	See page
Harsh engagement (1st -> 2nd "2" position)	1. Valve body assembly (B2 accumulator)	AX-82
	2. Valve body assembly (Accumulator control valve)	AX-82
	3. Valve body assembly (2nd coast modulator control)	AX-82
	4. 2nd coast brake (B1)	AX-144
	5. 2nd brake (B2)	AX-144
	6. No. 1 one-way clutch (F1)	AX-144
Harsh engagement (1st -> 2nd -> 3rd -> O/D)	Valve body assembly (Primary regulator valve)	AX-82
Harsh engagement (2nd -> 3rd)	1. Valve body assembly (C2 accumulator)	AX-82
	2. Valve body assembly (Accumulator control valve)	AX-82
	3. Direct clutch (C2)	AX-144
Harsh engagement (3rd -> O/D)	1. Valve body assembly (Accumulator control valve)	AX-82
	2. Valve body assembly (C3 accumulator)	AX-82
	3. U/D clutch (C3)	AX-144
Harsh engagement (O/D -> 3rd)	1. Valve body assembly (B4 accumulator)	AX-82
	2. U/D brake (B4)	AX-144
Harsh engagement (3rd -> 2nd)	1. Valve body assembly (C2 accumulator)	AX-82
	2. Direct clutch (C2)	AX-144
Slip (Forward & Reverse)	1. Valve body assembly (Primary regulator valve)	AX-82
	2. Oil strainer	AX-82
	3. Torque converter clutch	AX-137
	4. Oil pump	AX-144
Slip ("R" position)	1. Direct clutch (C2)	AX-144
	2. 1st and reverse brake (B3)	AX-144
Slip (1st)	1. Forward clutch (C1)	AX-144
	2. No. 2 one-way clutch (F2)	AX-144
	3. U/D one-way clutch (F3)	AX-144
Slip (2nd)	1. Forward clutch (C1)	AX-144
	2. 2nd brake (B2)	AX-144
	3. No. 1 one-way clutch (F1)	AX-144
	4. U/D one-way clutch (F3)	AX-144
Slip (3rd)	1. Forward clutch (C1)	AX-144
	2. Direct clutch (C2)	AX-144
	3. U/D one-way clutch (F3)	AX-144
Slip (O/D)	1. Forward clutch (C1)	AX-144
	2. Direct clutch (C2)	AX-144
	3. U/D clutch (C3)	AX-144
No engine braking (1st "L" position)	1. Valve body assembly (Low coast modulator valve)	AX-82
	2. 1st and reverse brake (B3)	AX-144
No engine braking (2nd "2" position)	1. Valve body assembly (2nd coast modulator valve)	AX-82
	2. 2nd coast brake (B1)	AX-144
No kick down	1. Valve body assembly (1 - 2 shift valve)	AX-82
	2. Valve body assembly (2 - 3 shift valve)	AX-82
	3. Valve body assembly (3 - 4 shift valve)	AX-82
Poor acceleration	1. Valve body assembly (Primary regulator valve)	AX-82
	2. Torque converter clutch	AX-137
	3. Forward clutch (C1)	AX-144
No lock-up	1. Valve body assembly (Lock-up relay valve)	AX-82
	2. Torque converter clutch	AX-137
Engine stalls when starting off or stopping	Torque converter clutch	AX-137