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. If the instruction PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE is given in the flowchart of each circuit, inspect the suspected areas in descending order for each symptom. If the trouble still occurs even though there are no abnormalities in the inspections listed for the symptoms, 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-30
No down-shift (5th -> 4th)	Transmission control switch (D <--> 4 position) circuit	AX-38
	Shift solenoid valve S4 circuit *1	AX-104
	ECM	IN-30
No up-shift (A particular gear, from 1st to 4th gear, is not up-shifted)	ECM	IN-30
No up-shift (4th -> 5th)	Transmission control switch (D <--> 4 position) circuit	AX-38
	Shift solenoid valve S4 circuit *1	AX-104
	ECM	IN-30
No lock-up	Stop light switch circuit *1	AX-56
	Engine coolant temp. sensor circuit *1	ES-56
	ECM	IN-30
No lock-up off	ECM	IN-30
Shift point too high or too low	Throttle position sensor circuit *1	ES-56
	ECM	IN-30
Up-shift to 5th from 4th while shift lever is in 4 position	Transmission control switch (D <--> 4 position) circuit	AX-38
	ECM	IN-30
Up-shift to 5th from 4th while engine is cold	Engine coolant temp. sensor circuit *1	ES-56
	ECM	IN-30
Up-shift to 2nd from 1st while shift lever is in L position	Transmission control switch (L <--> 2 position) circuit *1	AX-38
	ECM	IN-30
Harsh engagement (N -> D)	Shift solenoid valve SL1 circuit *1	AX-70
	ECM	IN-30
Harsh engagement (Lock-up)	ECM	IN-30
Harsh engagement (Any driving position)	ECM	IN-30
Poor acceleration	ECM	IN-30
No kick-down	ECM	IN-30
Engine stalls when starting off or stopping	ECM	IN-30
Malfunction in shifting	Park/neutral position switch circuit *1	AX-38
	Transmission control switch (D <--> 4 position) circuit	AX-38
	ECM	IN-30

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	Valve body assembly	AX-136
	U/D brake (B3)	AX-177
	Torque converter clutch	AX-170
Vehicle does not move in R position	Valve body assembly	AX-136
	Reverse clutch (C2)	AX-177
	1st and reverse brake (B2)	AX-177
No up-shift (1st -> 2nd)	Valve body assembly	AX-136
	2nd and O/D brake (B1)	AX-177
No up-shift (2nd -> 3rd)	Valve body assembly	AX-136
	Direct and O/D clutch (C0)	AX-177
No up-shift (3rd -> 4th)	Valve body assembly	AX-136
	2nd and O/D brake (B1)	AX-177
No up-shift (4th -> 5th)	Shift solenoid valve S4	AX-74
	Valve body assembly	AX-136
	U/D clutch (C3)	AX-177
No down-shift (5th -> 4th)	Shift solenoid valve S4	AX-74
	Valve body assembly	AX-136
No down-shift (4th -> 3rd)	Valve body assembly	AX-136
No down-shift (3rd -> 2nd)	Valve body assembly	AX-136
No down-shift (2nd -> 1st)	Valve body assembly	AX-136
No lock-up or No lock-up off	Shift solenoid valve DSL	AX-60
	Valve body assembly	AX-136
	Torque converter clutch	AX-170
Harsh engagement (N -> D)	Shift solenoid valve SL1	AX-66
	Valve body assembly	AX-136
	C1 accumulator	AX-177
	Forward clutch (C1)	AX-177
	No. 1 one-way clutch (F1)	AX-177
	U/D one-way clutch (F2)	AX-177
Harsh engagement (Lock-up)	Shift solenoid valve SL2	AX-82
	Valve body assembly	AX-136
	Torque converter clutch	AX-170
Harsh engagement (N -> R)	Valve body assembly	AX-136
	C2 accumulator	AX-177
	Reverse clutch (C2)	AX-177
	1st and reverse brake (B2)	AX-177
Harsh engagement (1st -> 2nd -> 3rd -> 4th -> 5th)	Shift solenoid valve SLT	AX-116
	Valve body assembly	AX-136
Harsh engagement (1st -> 2nd)	Valve body assembly	AX-136
	2nd and O/D brake (B1)	AX-177
Harsh engagement (2nd -> 3rd)	Valve body assembly	AX-136
	C0 accumulator	AX-177
	Direct and O/D clutch (C0)	AX-177
Harsh engagement (3rd -> 4th)	Valve body assembly	AX-136
	2nd and O/D brake (B1)	AX-177
Harsh engagement (4th -> 5th)	Valve body assembly	AX-136
	C3 accumulator	AX-177
	U/D clutch (B3)	AX-177

Symptom	Suspected Area	See page
Harsh engagement (5th -> 4th)	Valve body assembly	AX-136
	B3 accumulator	AX-177
Slip or shudder (Forward and reverse: After warm-up)	Valve body assembly	AX-136
	Oil strainer	AX-136
	Direct and O/D clutch (C0)	AX-177
	Forward clutch (C1)	AX-177
	U/D clutch (C3)	AX-177
	2nd and brake (B1)	AX-177
	U/D brake (B3)	AX-177
	No. 1 one-way clutch (F1)	AX-177
	U/D one-way clutch (F2)	AX-177
	Torque converter clutch	AX-170
Slip or shudder (Particular position: Just after engine starts)	Torque converter clutch	AX-170
Slip or shudder (R position)	Reverse clutch (C2)	AX-177
	1st and reverse brake (B2)	AX-177
Slip or shudder (1st)	Forward clutch (C1)	AX-177
	No. 1 one-way clutch (F1)	AX-177
	U/D one-way clutch (F2)	AX-177
Slip or shudder (2nd)	2nd and O/D brake (B1)	AX-177
Slip or shudder (3rd)	Direct and O/D clutch (C0)	AX-177
Slip or shudder (4th)	2nd and O/D brake (B1)	AX-177
Slip or shudder (5th)	U/D clutch (C3)	AX-177
Shift position too high or too low	Shift solenoid valve SLT	AX-116
No engine braking (1st +- 4th: D position)	U/D brake (B3)	AX-177
No engine braking (1st: L (1) position)	Valve body assembly	AX-136
	1st and reverse brake (B2)	AX-177
No engine braking (2nd: 2 position)	Valve body assembly	AX-136
	2nd and O/D brake (B1)	AX-177
No engine braking (3rd: 3 position)	U/D brake (B3)	AX-177
No kick-down	Valve body assembly	AX-136
Poor acceleration (All positions)	Shift solenoid valve SLT	AX-116
	Torque converter clutch	AX-170
Poor acceleration (5th)	U/D clutch (C3)	AX-177
	U/D planetary gear unit	AX-177
Engine stalls when starting off or stopping	Shift solenoid valve DSL	AX-60
	Torque converter clutch	AX-170