

PROBLEM SYMPTOMS TABLE

HINT:

- Use the table below to help determine the cause of the problem symptom. The potential causes of the symptoms are listed in order of probability in the "Suspected area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.
- The Matrix Chart is divided into 2 chapters. When troubleshooting, check Chapter 1 first. If instructions are given in Chapter 1 to proceed to 2, proceed as instructed.
- If the instruction "Proceed to next circuit inspection shown in problem symptoms table" is given in the flowchart for each circuit, proceed to the next suspected area in the table.
- If the problem still occurs even though there are no malfunctions in any of the circuits, check the ECM and replace it if necessary.

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-37
No down-shift (5th -> 4th)	1. Transmission control switch (4 <--> D position) circuit	AX-44
	2. Shift solenoid valve S4 circuit*	AX-106
	3. ECM	IN-37
No up-shift (a particular gear, from 1st to 4th gear, is not up-shifted)	ECM	IN-37
No up-shift (4th -> 5th)	1. Transmission control switch (4 <--> D position) circuit	AX-44
	2. Shift solenoid valve S4 circuit*	AX-106
	3. ECM	IN-37
No lock-up	1. Stop light switch circuit*	AX-62
	2. Engine coolant temperature sensor circuit*	ES-56
	3. ECM	IN-37
No lock-up off	ECM	IN-37
Shift point too high or too low	1. Throttle position sensor circuit*	ES-56
	2. ECM	IN-37
Up-shift to 5th from 4th while shift lever on 4	1. Transmission control switch (4 <--> D position) circuit	AX-44
	2. ECM	IN-37
Up-shift to 5th from 4th while engine is cold	1. Engine coolant temperature sensor circuit*	ES-56
	2. ECM	IN-37
Up-shift to 2nd from 1st while shift lever is on L	1. Transmission control switch (2 <--> L position) circuit*	AX-44
	2. ECM	IN-37
Harsh engagement (N -> D)	1. Shift solenoid valve SL1 circuit*	AX-76
	2. ECM	IN-37
Harsh engagement (lock-up)	ECM	IN-37
Harsh engagement (any driving position)	ECM	IN-37
Poor acceleration	ECM	IN-37
No kick-down	ECM	IN-37
Engine stalls when starting off or stopping	ECM	IN-37
Malfunction in shifting	1. Park/Neutral position switch circuit*	AX-44
	2. Transmission control switch (4 <--> D position) circuit	AX-44
	3. ECM	IN-37

HINT:

*: When the circuit is defective, a DTC may be output.

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

Symptom	Suspected area	See page
Vehicle does not move in any forward position and with the shift lever on R	1. Valve body assembly	AX-142
	2. B3 U/D brake	AX-180
	3. Torque converter clutch	AX-178
Vehicle does not move with shift lever on R	1. Valve body assembly	AX-142
	2. C2 reverse clutch	AX-180
	3. B2 1st and reverse brake	AX-180
No up-shift (1st -> 2nd)	1. Valve body assembly	AX-142
	2. B1 2nd and O/D brake	AX-180
No up-shift (2nd -> 3rd)	1. Valve body assembly	AX-142
	2. C0 direct and O/D clutch	AX-180
No up-shift (3rd -> 4th)	1. Valve body assembly	AX-142
	2. B1 2nd and O/D brake	AX-180
No up-shift (4th -> 5th)	1. Shift solenoid valve S4	AX-79
	2. Valve body assembly	AX-142
	3. C3 U/D clutch	AX-180
No down-shift (5th -> 4th)	1. Shift solenoid valve S4	AX-79
	2. Valve body assembly	AX-142
No down-shift (4th -> 3rd)	Valve body assembly	AX-142
No down-shift (3rd -> 2nd)	Valve body assembly	AX-142
No down-shift (2nd -> 1st)	Valve body assembly	AX-142
No lock-up or no lock-up off	1. Shift solenoid valve DSL	AX-65
	2. Valve body assembly	AX-142
	3. Torque converter clutch	AX-178
Harsh engagement (N -> D)	1. Shift solenoid valve SL1	AX-72
	2. Valve body assembly	AX-142
	3. C1 accumulator	AX-180
	4. C1 forward clutch	AX-180
	5. F1 No. 1 one-way clutch	AX-180
	6. F2 U/D one-way clutch	AX-180
Harsh engagement (lock-up)	1. Shift solenoid valve SL2	AX-87
	2. Valve body assembly	AX-142
	3. Torque converter clutch	AX-178
Harsh engagement (N -> R)	1. Valve body assembly	AX-142
	2. C2 accumulator	AX-180
	3. C2 reverse clutch	AX-180
	4. B2 1st and reverse brake	AX-180
Harsh engagement (1st -> 2nd -> 3rd -> 4th -> 5th)	1. Shift solenoid valve SLT	AX-120
	2. Valve body assembly	AX-142
Harsh engagement (1st -> 2nd)	1. Valve body assembly	AX-142
	2. B1 2nd and O/D brake	AX-180
Harsh engagement (2nd -> 3rd)	1. Valve body assembly	AX-142
	2. C0 accumulator	AX-180
	3. C0 direct and O/D clutch	AX-180
Harsh engagement (3rd -> 4th)	1. Valve body assembly	AX-142
	2. B1 2nd and O/D brake	AX-180

Symptom	Suspected area	See page
Harsh engagement (4th -> 5th)	1. Valve body assembly	AX-142
	2. C3 accumulator	AX-180
	3. B3 U/D clutch	AX-180
Harsh engagement (5th -> 4th)	1. Valve body assembly	AX-142
	2. B3 accumulator	AX-180
Slip or shudder (forward and reverse: after warm-up)	1. Valve body assembly	AX-142
	2. Oil strainer	AX-142
	3. C0 direct and O/D clutch	AX-180
	4. C1 forward clutch	AX-180
	5. C3 U/D clutch	AX-180
	6. B1 2nd and brake	AX-180
	7. B3 U/D brake	AX-180
	8. F1 No. 1 one-way clutch	AX-180
	9. F2 U/D one-way clutch	AX-180
	10. Torque converter clutch	AX-178
Slip or shudder (particular position: just after engine starts)	Torque converter clutch	AX-178
Slip or shudder (shift lever on R)	1. C2 reverse clutch	AX-180
	2. B2 1st and reverse brake	AX-180
Slip or shudder (1st)	1. C1 forward clutch	AX-180
	2. F1 No. 1 one-way clutch	AX-180
	3. F2 U/D one-way clutch	AX-180
Slip or shudder (2nd)	B1 2nd and O/D brake	AX-180
Slip or shudder (3rd)	C0 direct and O/D clutch	AX-180
Slip or shudder (4th)	B1 2nd and O/D brake	AX-180
Slip or shudder (5th)	C3 U/D clutch	AX-180
Shift position too high or too low	Shift solenoid valve SLT	AX-120
No engine braking (1st to 4th/shift lever on D)	B3 U/D brake	AX-180
No engine braking (1st/shift lever on L)	1. Valve body assembly	AX-142
	2. B2 1st and reverse brake	AX-180
No engine braking (2nd/shift lever on 2)	1. Valve body assembly	AX-142
	2. B1 2nd and O/D brake	AX-180
No engine braking (3rd/shift lever on 3)	B3 U/D brake	AX-180
No kick-down	Valve body assembly	AX-142
Poor acceleration (all positions)	1. Shift solenoid valve SLT	AX-120
	2. Torque converter clutch	AX-178
Poor acceleration (5th)	1. C3 U/D clutch	AX-180
	2. U/D planetary gear unit	AX-180
Engine stalls when starting off or stopping	1. Shift solenoid valve DSL	AX-65
	2. Torque converter clutch	AX-178