

## 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.

### 1. Chapter 1: Electronic Circuit Matrix Chart

- Refer to the table below when the trouble cause is considered to be electrical.
- If 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.

### HINT:

- \*1: When the circuit on which mark \*1 is attached is a malfunction, DTC could be output (see page 05-783).
- \*2: LHD

Symptom	Suspect Area	See page
No Up-shift (1st → 2nd)	ECM	01-32
No Up-shift (2nd → 3rd)	ECM	01-32
No Up-shift (3rd → O/D)	1. Transmission control switch (O/D OFF) circuit 2. ECM	05-834 01-32
No Down-shift (O/D → 3rd)	ECM	01-32
No Down-shift (3rd → 2nd)	ECM	01-32
No Down-shift (2nd → 1st)	ECM	01-32
No Lock-up or No Lock-up off	1. Stop light switch circuit *1 2. ECM	05-842 01-32
Shift point too high or too low	ECM	01-32
Up-shift to O/D from 3rd (While O/D main switch is OFF)	1. Transmission control switch (O/D OFF) circuit 2. ECM	05-834 01-32
Up-shift to O/D from 3rd while engine is cold	1. Engine coolant temp. sensor circuit *1 2. ECM	05-29 05-277 01-32
Harsh engagement (N → D)	ECM	01-32
Harsh engagement (Lock-up)	ECM	01-32
Harsh engagement (Any driving position)	ECM	01-32
Poor acceleration	ECM	01-32
Engine stalls when starting off or stopping	ECM	01-32
Malfunction in shifting	1. Park/neutral position switch circuit *1 2. ECM	05-836 01-32
No kick-down	1. Kick-down switch circuit *2 2. ECM	05-845 01-32

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

(★: U241E AUTOMATIC TRANSAXLE Repair Manual Pub. No. RM840U)

(●: AVENSIS VERSO/PICNIC Repair Manual Pub. No. RM864E, page 05-363)

Symptom	Suspect Area	See page
Vehicle does not move in any forward positions and reverse positions	1. Manual valve 2. Primary regulator valve 3. Front and rear planetary gear 4. U/D planetary gear 5. U/D one-way clutch (F <sub>2</sub> ) 6. Forward clutch (C <sub>1</sub> ) 7. U/D brake (B <sub>3</sub> )	★ ★ ★ ★ ★ ★ ★
Vehicle does not move in R position	1. Front and rear planetary gear unit 2. U/D planetary gear unit 3. Direct clutch (C <sub>2</sub> ) 4. U/D brake (C <sub>3</sub> ) 5. 1st and reverse brake (B <sub>2</sub> )	★ ★ ★ ★ ★
No up-shift (1st → 2nd)	1. Valve body assy 2. No. 1 one-way clutch (F <sub>1</sub> ) 3. 2nd brake (B <sub>1</sub> )	● ★ ★
No up-shift (2nd → 3rd)	1. Valve body assy 2. Direct clutch (C <sub>2</sub> )	● ★
No up-shift (3rd → O/D)	1. 3-4 shift valve 2. U/D clutch (C <sub>3</sub> )	★ ★
No down-shift (O/D → 3rd)	3-4 shift valve	★
No down-shift (3rd → 2nd)	Valve body assy	●
No down-shift (2nd → 1st)	Valve body assy	●
No lock-up or No lock-up off	1. Lock-up relay valve 2. Torque converter clutch	★ ●
Harsh engagement (N → D)	1. C <sub>1</sub> accumulator 2. Valve body assy 3. Forward clutch (C <sub>1</sub> ) 4. U/D one-way clutch (F <sub>2</sub> ) 5. No. 1 one-way clutch (F <sub>1</sub> )	★ ● ★ ★ ★
Harsh engagement (N → R)	1. Valve body assy 2. Direct clutch (C <sub>2</sub> ) 3. 1st and reverse brake (B <sub>2</sub> )	● ★ ★
Harsh engagement (Lock-up)	1. Lock-up relay valve 2. Torque converter clutch	★ ●
Harsh engagement (2nd → 3rd)	Valve body assy	●
Harsh engagement (3rd → O/D)	Valve body assy	●
Harsh engagement (O/D → 3rd)	Valve body assy	●
Slip or shudder (Forward position: After warm-up)	1. Oil strainer 2. Torque converter clutch 3. Forward clutch (C <sub>1</sub> ) 4. Direct clutch (C <sub>2</sub> ) 5. U/D brake (C <sub>3</sub> ) 6. No. 1 one-way clutch (F <sub>1</sub> ) 7. U/D one-way clutch (F <sub>2</sub> )	● ● ★ ★ ★ ★ ★
Slip or shudder (R position)	1. Oil strainer 2. Direct clutch (C <sub>2</sub> ) 3. 1st and reverse brake (B <sub>2</sub> )	● ★ ★
Slip or shudder (1st)	No. 1 one-way clutch (F <sub>1</sub> )	★

Slip or shudder (2nd)	1. U/D one-way clutch (F <sub>2</sub> )	★
	2. 2nd brake (B <sub>1</sub> )	★
Slip or shudder (3rd)	Direct clutch (C <sub>2</sub> )	★
Slip or shudder (O/D)	U/D clutch (C <sub>3</sub> )	★
No engine braking (1st ~ 3rd: D position)	U/D brake (B <sub>3</sub> )	★
No engine braking (1st: L (1) position)	1st and reverse brake (B <sub>2</sub> )	★
No engine braking (2nd: 2 position)	2nd brake (B <sub>1</sub> )	★
Poor acceleration (All position)	1. Torque converter clutch	●
	2. U/D planetary gear	★
Poor acceleration (O/D)	1. U/D clutch (C <sub>3</sub> )	★
	2. U/D planetary gear	★
Large shift shock or engine stalls when starting off or stopping	Torque converter clutch	●
No kick-down	Valve body assy	●