

PROBLEM SYMPTOMS TABLE

HINT:

If a normal code is displayed during the DTC check but the trouble still occurs, check the 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 3 chapters.

- If the instruction "Proceed to next circuit inspection shown on matrix chart" is given in the flow chart for 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, then check and replace the ECM.

CHAPTER 1: ELECTRONIC CIRCUIT MATRIX CHART

Symptom	Suspect Area	See page
No up-shift (A particular gear, from 1st to 3rd gear, is not up-shifted)	ECM	–
No up-shift (3rd → O/D)	3. O/D main switch circuit 4. ECM	05-396 –
No down-shift (O/D → 3rd)	ECM	–
No down-shift (A particular gear, from 3rd to 1st gear, is not down-shifted)	ECM	–
No lock-up or No lock-up off	ECM	–
Shift point too high or too low	ECM	–
Up-shift to 2nd while in 1 range	ECM	–
Up-shift to 3rd while in 2 range	ECM	–
Up-shift to O/D from 3rd while O/D main switch is OFF	1. O/D main switch circuit 2. ECM	05-396 –
Up-shift to O/D from 3rd while engine is cold	ECM	–
Harsh engagement (N → D)	ECM	–
Harsh engagement (Lock-up)	ECM	–
Harsh engagement (Any driving range)	ECM	–
Poor acceleration	ECM	–
Engine stalls when starting off or stopping	ECM	–
No kick-down	1. Kick-down switch circuit 2. ECM	05-398 –

Chapter 2: On-vehicle Repair

(★) U241E Automatic Transaxle repair manual (Pub. No. RM840U)

Symptom	Suspect Area	See page
Vehicle does not move in any forward range and reverse range	1. Manual Valve 2. Primary Regulator Valve 3. Off-vehicle repair matrix chart	★ ★ –
Vehicle does not move in R range	Off-vehicle repair matrix chart	–
No Up-shift (1st → 2nd)	1. Valve body Assy 2. Off-vehicle repair matrix chart	★ –
No Up-shift (2nd → 3rd)	1. Valve body Assy 2. Off-vehicle repair matrix chart	★ –
No Up-shift (3rd → D/D)	1. 3-4 Shift Valve 2. Off-vehicle repair matrix chart	★ –
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 Delay Valve 2. Off-vehicle repair matrix chart	★ –
Harsh Engagement (N → D)	1. C ₁ Accumulator 2. Off-vehicle repair matrix chart 3. Valve body Assy	★ – ★
Harsh Engagement (N → R)	1. Valve body Assy 2. Off-vehicle repair matrix chart	★ –
Harsh Engagement (Lock-up)	1. Lock-up Delay Valve 2. Off-vehicle repair matrix chart	★ –
Harsh Engagement (2nd → 3rd)	Valve body Assy	★
Harsh Engagement (3rd → D/D)	Valve body Assy	★
Harsh Engagement (O/D → 3rd)	Valve body Assy	★
Slip or shudder (Forward and reverse)	1. Oil strainer 2. Off-vehicle repair matrix chart	40-26 –
No engine braking (1st: L range)	Off-vehicle repair matrix chart	–
No engine braking (2nd: 2 range)	Off-vehicle repair matrix chart	–
No kick-down	Valve body Assy	★

Chapter 3: Off-vehicle Repair**(★) U241E Automatic Transaxle repair manual Pub. No. RM840U)**

Symptom	Suspect Area	See page
Vehicle does not move in any forward range and reverse range	1. Front and rear planetary gear 2. U/D planetary gear 3. U/D one-way clutch (F ₂) 4. Forward clutch (C ₁) 5. U/D brake (B ₃)	★ ★ ★ ★ ★
Vehicle does not move in R range	1. Front and rear planetary gear unit 2. U/D planetary gear 3. Direct clutch (C ₂) 4. U/D brake (C ₃) 5. 1st & reverse brake (B ₂)	★ ★ ★ ★ ★
No Up-shift (1st → 2nd)	1. No. 1 one-way clutch (F ₁) 2. 2nd brake (B ₁)	★ ★
No Up-shift (2nd → 3rd)	Direct clutch (C ₂)	★
No Up-shift (3rd → O/D)	U/D clutch (C ₃)	★
No lock-up or No lock-up off	Torque converter clutch	40-19
Harsh engagement (N → D)	1. Forward clutch (C ₃) 2. U/D one-way clutch (F ₂) 3. No. 1 one-way clutch (F ₁)	★ ★ ★
Harsh engagement (N → R)	1. Direct clutch (C ₂) 2. 1st & reverse brake (B ₂)	★ ★
Harsh engagement (Lock-up)	Torque converter clutch	40-19
Slip or shudder (Forward position: After warm-up)	1. Torque converter clutch 2. Forward clutch (C ₁) 3. Direct clutch (C ₂) 4. U/D brake (C ₃) 5. No. 1 one-way clutch (F ₁) 6. U/D one-way clutch (F ₂)	40-19 ★ ★ ★ ★ ★
Slip or shudder (R range)	1. Direct clutch (C ₂) 2. 1st & reverse brake (B ₂)	★ ★
Slip or shudder (1st)	No. 1 one-way clutch (F ₁)	★
Slip or shudder (2nd)	1. U/D one-way clutch (F ₂) 2. 2nd brake (B ₁)	★ ★
Slip or shudder (3rd)	Direct clutch (C ₂)	★
Slip or shudder (O/D)	U/D clutch (C ₃)	★
No engine braking (1st – 3rd: D range)	U/D brake (B ₃)	★
No engine braking (1st: L range)	1st & reverse brake (B ₂)	★
No engine braking (2nd: 2 range)	2nd brake (B ₁)	★
Poor acceleration (All range)	1. Torque converter clutch 2. U/D planetary gear	40-19 ★
Poor acceleration (O/D)	1. U/D clutch (C ₃) 2. U/D planetary gear	★ ★
Large shift shock or engine stalls when starting off or stopping	Torque converter clutch	40-19