

PROBLEM SYMPTOMS TABLE

HINT:

If a normal code is displayed during the diagnostic trouble code check although 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 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	Suspect Area	See page
No down-shift (A particular gear, from 1st to 4th gear, is not up-shifted)	1. Shift solenoid valve (SL1, SL2, SL3, SR) circuit 2. ECM	05-420 01-31
No down-shift (5th → 4th)	1. Transmission control switch circuit 2. Shift solenoid valve (S4) circuit 3. ECM	05-450 05-420 01-31
No up-shift (A particular gear, from 1st to 4th gear, is not up-shifted)	1. Shift solenoid valve (SL1, SL2) circuit 2. ECM	05-420 01-31
No up-shift (4th → 5th)	1. Transmission control switch circuit 2. Shift solenoid valve (S4) circuit 3. ECM	05-450 05-420 01-31
No lock-up	1. Shift solenoid valve (DSL) circuit 2. ECM	05-433 01-31
No lock-up off	1. Shift solenoid valve (DSL) circuit 2. ECM	05-433 01-31
Shift point too high or too low	1. Throttle position sensor circuit 2. Shift solenoid valve (SLT) circuit 3. ECM	05-18 05-443 01-31
Up-shift to 5th from 4th while shift lever is 4 position	1. Transmission control switch circuit 2. ECM	05-450 01-31
Up-shift to 5th from 4th while engine is cold	1. Engine coolant temp. sensor circuit 2. ECM	05-18 01-31
Up-shift to 4th from 3rd while shift lever is 3 position	1. Park/neutral position switch circuit 2. ECM	05-450 01-31
Up-shift to 3rd from 2nd while shift lever is 2 position	1. Park/neutral position switch circuit 2. ECM	05-450 01-31
Up-shift to 2nd from 1st while shift lever is L position	1. Transmission control switch circuit 2. ECM	05-450 01-31
Harsh engagement (N → D)	1. Shift solenoid valve (SL1) circuit 2. ECM	05-420 01-31
Harsh engagement (Lock-up)	1. Shift solenoid valve (SL2) circuit 2. ECM	05-420 01-31
Harsh engagement (Any driving position)	1. Shift solenoid valve (SLT) circuit 2. ECM	05-443 01-31
Poor acceleration	1. Shift solenoid valve (SLT) circuit 2. ECM	05-443 01-31
No kick-down	ECM	01-31
Engine stalls when starting off or stopping	1. Shift solenoid valve (DSL) circuit 2. ECM	05-433 01-31

2. Chapter 2: On-Vehicle Repair

(★: U150E AUTOMATIC TRANSAXLE Repair Manual Pub. No. RM913U)

Symptom	Suspect Area	See page
Vehicle does not move in any forward position and reverse positions	1. Valve body Assy 2. Off-vehicle repair matrix chart	40-23 -
Vehicle does not move in R position	1. Valve body Assy 2. Off-vehicle repair matrix chart	40-23 -
No up-shift (1st → 2nd)	1. Valve body Assy 2. Off-vehicle repair matrix chart	40-23 -
No up-shift (2nd → 3rd)	1. Valve body Assy 2. Off-vehicle repair matrix chart	40-23 -
No up-shift (3rd → 4th)	1. Valve body Assy 2. Off-vehicle repair matrix chart	40-23 -
No up-shift (4th → 5th)	1. Valve body Assy 2. Off-vehicle repair matrix chart	40-23 -
No down-shift (5th → 4th)	1. Valve body Assy 2. Off-vehicle repair matrix chart	40-23 -
No down-shift (4th → 3rd)	1. Valve body Assy 2. Off-vehicle repair matrix chart	40-23 -
No down-shift (3rd → 2nd)	1. Valve body Assy 2. Off-vehicle repair matrix chart	40-23 -
No down-shift (2nd → 1st)	1. Valve body Assy 2. Off-vehicle repair matrix chart	40-23 -
No lock-up or No lock-up off	1. Valve body Assy 2. Off-vehicle repair matrix chart	40-23 -
Harsh engagement (N → D)	1. Valve body Assy 2. C ₁ accumulator 3. Off-vehicle repair matrix chart	40-23 ★ -
Harsh engagement (Lock-up)	1. Valve body Assy 2. Off-vehicle repair matrix chart	40-23 -
Harsh engagement (N → R)	1. Valve body Assy 2. C ₂ accumulator 3. Off-vehicle repair matrix chart	40-23 ★ -
Harsh engagement (1st → 2nd → 3rd → 4th → 5th)	Valve body Assy	40-23
Harsh engagement (1st → 2nd)	1. Valve body Assy 2. Off-vehicle repair matrix chart	40-23 -
Harsh engagement (2nd → 3rd)	1. Valve body Assy 2. C ₀ accumulator 3. Off-vehicle repair matrix chart	40-23 ★ -
Harsh engagement (3rd → 4th)	1. Valve body Assy 2. Off-vehicle repair matrix chart	40-23 -
Harsh engagement (4th → 5th)	1. Valve body Assy 2. C ₃ accumulator 3. Off-vehicle repair matrix chart	40-23 ★ -
Harsh engagement (5th → 4th)	1. Valve body Assy 3. B ₃ accumulator 4. Off-vehicle repair matrix chart	40-23 ★ -
Slip or shudder (Forward and reverse)	1. Valve body Assy 2. Oil strainer 3. Off-vehicle repair matrix chart	40-23 40-23 -

No engine braking (1st: L position)	1. Valve body assy 2. Off-vehicle repair matrix chart	40-23 -
No engine braking (2nd: 2 position)	1. Valve body assy 2. Off-vehicle repair matrix chart	40-23 -
No kick-down	Valve body assy	40-23

3. Chapter 3: Off-Vehicle Repair (★: U150E AUTOMATIC TRANSAXLE Repair Manual Pub. No. RM913U)

Symptom	Suspect Area	See page
Vehicle does not move in any forward position and reverse positions	1. U/D brake (B ₃) 2. Torque converter clutch	★ 40-16
Vehicle does not move in R position	1. Reverse clutch (C ₂) 2. 1st & reverse brake (B ₂)	★ ★
No up-shift (1st → 2nd)	2nd & O/D brake (B ₁)	★
No up-shift (2nd → 3rd)	Direct and O/D clutch (C ₀)	★
No up-shift (3rd → 4th)	2nd & O/D brake (B ₁)	★
No up-shift (4th → 5th)	U/D clutch (C ₃)	★
No lock-up or No lock-up off	Torque converter clutch	40-16
Harsh engagement (N → D)	1. Forward clutch (C ₁) 2. One-way clutch No.1 (F ₁) 3. U/D one-way clutch (F ₂)	★ ★ ★
Harsh engagement (N → R)	1. Reverse clutch (C ₂) 2. 1st & reverse brake (B ₂)	★ ★
Harsh engagement (1 → 2)	2nd & O/D brake (B ₁)	★
Harsh engagement (2 → 3)	Direct and O/D clutch (C ₀)	★
Harsh engagement (3 → 4)	2nd & O/D brake (B ₁)	★
Harsh engagement (4 → 5th)	U/D clutch (C ₃)	★
Harsh engagement (Lock-up)	Torque converter clutch	40-16
Slip or shudder (Forward and reverse: After warm-up)	1. Direct and O/D clutch (C ₀) 2. Forward clutch (C ₁) 3. U/D clutch (C ₃) 4. 2nd & O/D brake (B ₁) 5. U/D brake (B ₃) 6. One-way clutch No.1 (F ₁) 7. U/D one-way clutch (F ₂) 8. Torque converter clutch	★ ★ ★ ★ ★ ★ ★ ★ 40-16
Slip or shudder (Particular position: Just after engine starts)	Torque converter clutch	40-16
Slip or shudder (R position)	1. Reverse clutch (C ₂) 2. 1st & reverse brake (B ₂)	★ ★
Slip or shudder (1st)	1. Forward clutch (C ₁) 2. One-way clutch No.1 (F ₁) 3. U/D one-way clutch (F ₂)	★ ★
Slip or shudder (2nd)	2nd & O/D brake (B ₁)	★
Slip or shudder (3rd)	Direct and O/D clutch (C ₀)	★
Slip or shudder (4th)	2nd & O/D brake (B ₁)	★
Slip or shudder (5th)	U/D clutch (C ₃)	★
No engine braking (1st – 4th: D position)	U/D brake (B ₃)	★
No engine braking (1st: L position)	1st & reverse brake (B ₂)	★
No engine braking (2nd: 2 position)	2nd & O/D brake (B ₁)	★
No engine braking (3rd: 3 position)	U/D brake (B ₃)	★
Poor acceleration (All positions)	Torque converter clutch	40-16
Poor acceleration (5th)	1. U/D clutch (C ₃) 2. U/D planetary gear unit	★ ★
Engine stalls when starting off or stopping	Torque converter clutch	40-16