05FS1–01

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 trouble-shooting.

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	01–31
No up–shift (3rd → O/D)	1. O/D main switch circuit 2. ECM	05–679*
No down–shift (O/D → 3rd)	ECM	01–31
No down–shift (A particular gear, from 3rd to 1st gear, is not down–shifted)	ECM	01–31
No lock–up or No lock–up off	ECM	01–31
Shift point too high or too low	ECM	01–31
Up shift to 2nd while in L range	1. Park/neutral position switch circuit 2. ECM	05–18 01–31
Up–shift to 3rd while in 2 range	1. Park/neutral position switch circuit 2. ECM	05–18 01–31
Up–shift to O/D from 3rd while O/D main switch is OFF	1. O/D main switch circuit 2. ECM	05–679* 01–31
Up–shift to O/D from 3rd while engine is cold	ECM	01–31
Harsh engagement (N → D)	ECM	01–31
Harsh engagement (Lock–up)	ECM	01–31
Harsh engagement (Any driving range)	ECM	01–31
Poor acceleration	ECM	01–31
Engine stalls when starting off or stopping	ECM	01–31
No kick–down	1. Kick–down switch circuit 2. ECM	05–682* 01–31

Chapter 2: On–vehicle Repair
(★: U140E AUTOMATIC TRANSAXLE Repair Manual Pub. No. RM836U 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 → O/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 relay 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 relay valve 2. Off–vehicle repair matrix chart	★ –
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 and reverse)	1. Oil strainer 2. Off–vehicle repair matrix chart	40–35* –
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	★

*: Refer to Repair Manual Pub. No. RM915E.

Chapter 3: Off–vehicle Repair
(★: U140E AUTOMATIC TRANSAXLE Repair Manual Pub. No. RM836U 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 (B_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	40–26*
Harsh engagement (N → D)	1. Forward clutch (C_1) 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	40–26*
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)	40–26* ★ ★ ★ ★ ★
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	40–26* ★
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	40–26*

*: Refer to Repair Manual Pub. No. RM915E.