056IN–06

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 05–376).

Symptom	Suspect Area	See page
No down–shift (A particular gear, from 1st to 4th gear, is not down–shifted)	1. Shift solenoid valve (SL1) circuit *1 2. Shift solenoid valve (SL2) circuit *1 3. Shift solenoid valve (SL3) circuit *1 4. Shift solenoid valve (SR) circuit *1 5. ECM	05–391 05–394 05–400 05–406 01–33
No down–shift (5th → 4th)	1. Transmission control switch (O/D OFF) circuit 2. Shift solenoid valve (S4) circuit *1 3. ECM	05–415 05–403 01–33
No up–shift (A particular gear, from 1st to 4th gear, is not up–shifted)	1. Shift solenoid valve (SL1) circuit *1 2. Shift solenoid valve (SL2) circuit *1 3. ECM	05–391 05–394 01–33
No up–shift (4th → 5th)	1. Transmission control switch (O/D OFF) circuit 2. Shift solenoid valve (S4) circuit *1 3. ECM	05–415 05–403 01–33
No lock–up	1. Shift solenoid valve (DSL) circuit *1 2. Stop light switch circuit *1 3. Engine coolant temp. sensor circuit *1 4. ECM	05–412 05–389 05–27 01–33
No lock–up off	1. Shift solenoid valve (DSL) circuit *1 2. ECM	05–412 01–33
Shift point too high or too low	1. Throttle position sensor circuit *1 2. Shift solenoid valve (SLT) circuit *1 3. ECM	05–27 05–409 01–33
Up–shift to 5th from 4th while shift lever is D (O/D OFF) position	1. Transmission control switch (O/D OFF) circuit 2. ECM	05–415 01–33
Up–shift to 5th from 4th while engine is cold	1. Engine coolant temp. sensor circuit *1 2. ECM	05–27 01–33
Up–shift to 2nd from 1st while shift lever is L position	1. Transmission shift main switch (2 ⇔ L position) circuit *1 2. ECM	05–378 01–33
Harsh engagement (N → D)	1. Shift solenoid valve (SL1) circuit *1 2. ECM	05–391 01–33
Harsh engagement (Lock–up)	1. Shift solenoid valve (SL2) circuit *1 2. ECM	05–394 01–33
Harsh engagement (Any driving position)	1. Shift solenoid valve (SLT) circuit *1 2. ECM	05–409 01–33

Poor acceleration	1. Shift solenoid valve (SLT) circuit *1 2. ECM	05–409 01–33
No kick–down	ECM	01–33
Engine stalls when starting off or stopping	1. Shift solenoid valve (DSL) circuit *1 2. ECM	05–412 01–33
Malfunction in shifting	1. Park/neutral position switch circuit *1 2. Transmission control switch (O/D OFF) circuit 3. ECM	05–378 05–415 01–33

2. Chapter 2: On–Vehicle Repair and Off–Vehicle Repair (★: U151E, U151F AUTOMATIC TRANSAXLE Repair Manual Pub. No. RM1021U)

Symptom	Suspect Area	See page
Vehicle does not move in forward position and in reverse positions	1. Valve body assy 2. U/D brake (B_3) 3. Torque converter clutch	40–24 ★ 40–19
Vehicle does not move in R position	1. Valve body assy 2. Reverse clutch (C_2) 3. 1st & reverse brake (B_2)	40–24 ★ ★
No up–shift (1st → 2nd)	1. Valve body assy 2. 2nd & O/D brake (B_1)	40–24 ★
No up–shift (2nd → 3rd)	1. Valve body assy 2. Direct and O/D clutch (C_0)	40–24 ★
No up–shift (3rd → 4th)	1. Valve body assy 2. 2nd & O/D brake (B_1)	40–24 ★
No up–shift (4th → 5th)	1. Valve body assy 2. U/D clutch (C_3)	40–24 ★
No down–shift (5th → 4th)	Valve body assy	40–24
No down–shift (4th → 3rd)	Valve body assy	40–24
No down–shift (3rd → 2nd)	Valve body assy	40–24
No down–shift (2nd → 1st)	Valve body assy	40–24
No lock–up or No lock–up off	1. Valve body assy 2. Torque converter clutch	40–24 40–19
Harsh engagement (N → D)	1. Valve body assy 2. C_1 accumulator 3. Forward clutch (C_1) 4. One–way clutch No.1 (F_1) 5. U/D one–way clutch (F_2)	40–24 ★ ★ ★ ★
Harsh engagement (Lock–up)	1. Valve body assy 2. Torque converter clutch	40–24 40–19
Harsh engagement (N → R)	1. Valve body assy 2. C_2 accumulator 3. Reverse clutch (C_2) 4. 1st & reverse brake (B_2)	40–24 ★ ★ ★
Harsh engagement (1st →2nd → 3rd → 4th → 5th)	Valve body assy	40–24
Harsh engagement (1st → 2nd)	1. Valve body assy 2. 2nd & O/D brake (B_1)	40–24 ★
Harsh engagement (2nd → 3rd)	1. Valve body assy 2. C_0 accumulator 3. Direct and O/D clutch (C_0)	40–24 ★ ★
Harsh engagement (3rd → 4th)	1. Valve body assy 2. 2nd & O/D brake (B_1)	40–24 ★
Harsh engagement (4th → 5th)	1. Valve body assy 2. C_3 accumulator 3. U/D clutch (C_3)	40–24 ★ ★
Harsh engagement (5th → 4th)	1. Valve body assy 2. B_3 accumulator	40–24 ★

Slip or shudder (Forward and reverse: After warm–up)	1. Valve body assy 2. Oil strainer 3. Direct and O/D clutch (C_0) 4. Forward clutch (C_1) 5. U/D clutch (C_3) 6. 2nd & O/D brake (B_1) 7. U/D brake (B_3) 8. One–way clutch No.1 (F_1) 9. U/D one–way clutch (F_2) 10.Torque converter clutch	40–24 40–24 ★ ★ ★ ★ ★ ★ ★ 40–19
Slip or shudder (Particular position: Just after engine starts)	Torque converter clutch	40–19
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 (1) position)	1. Valve body assy 2. 1st & reverse brake (B_2)	40–24 ★
No engine braking (2nd: 2 position)	1. Valve body assy 2. 2nd & O/D brake (B_1)	40–24 ★
No engine braking (3rd: 3 position)	U/D brake (B_3)	★
Poor acceleration (All positions)	Torque converter clutch	40–19
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	40–19
No kick–down	Valve body assy	40–24