

PROBLEM SYMPTOMS TABLE

If a normal code is displayed during the diagnostic trouble code 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.

Chapter 1: Electronic circuit matrix chart

Chapter 2: On-vehicle repair matrix chart

Chapter 3: Off-vehicle repair matrix chart

- If the instruction "Proceed to next circuit inspection shown in 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-shift)	ECM	IN-31
No up-shift (3rd → O/D)	3. O/D main switch & O/D OFF indicator light circuit 4. O/D cancel signal circuit 5. ECM	DI-204 DI-201 IN-31
No down-shift (O/D → 3rd)	ECM	IN-31
No down-shift (A particular gear, from 1st to 3rd gear, is not up-shift)	ECM	IN-31
No lock-up or No lock-up off	ECM	IN-31
Shift point too high or too low	ECM	IN-31
Up-shift to 2nd while in L position	ECM	IN-31
Up-shift to 3rd while in 2 position	ECM	IN-31
Up-shift to O/D from 3rd	1. O/D main switch & O/D OFF indicator light circuit 2. ECM	DI-204 IN-31
Up-shift to O/D from 3rd while engine is cold	ECM	IN-31
Harsh engagement (N → D)	ECM	IN-31
Harsh engagement (Any driving position)	ECM	IN-31
Poor acceleration	ECM	IN-31
Engine stalls when starting off or stopping	ECM	IN-31
No kick-down	ECM	IN-31

Chapter 2: On-vehicle repair**(★: A541E automatic transaxle repair manual Pub. No. RM326U)**

Symptom	Suspect Area	See page
Vehicle does not move in any forward position and reverse position	1. Manual valve 2. Throttle valve 3. Primary regulator valve 4. Off-vehicle repair matrix chart	★ ★ ★ -
Vehicle does not move in R position	Off-vehicle repair matrix chart	-
No up-shift (1st → 2nd)	1. 1-2 shift valve 2. Off-vehicle repair matrix chart	★ -
No up-shift (2nd → 3rd)	1. 2-3 shift valve 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)	2-3 shift valve	★
No down-shift (2nd → 1st)	1-2 shift valve	★
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	★ -
Harsh engagement (N → R)	1. C ₂ accumulator 2. No.1 accumulator control valve 3. Off-vehicle repair matrix chart	★ ★ -
Harsh engagement (N → L)	Low coast modulator valve	★
Harsh engagement (Lock-up)	1. Lock-up relay valve 2. Off-vehicle repair matrix chart	★ -
Harsh engagement (1st → 2nd → 3rd → O/D)	1. Throttle modulator valve 2. Cut back valve 3. Throttle valve	★ ★ ★
Harsh engagement (2nd → 3rd)	C ₂ accumulator	★
Harsh engagement (3rd → O/D)	B ₀ accumulator	★
Harsh engagement (O/D → 3rd)	1. C ₀ accumulator 2. B ₀ accumulator	★ ★
Slip or shudder (Forward and reverse)	1. Throttle valve 2. Oil strainer 3. Off-vehicle repair matrix chart	★ ★ -
No engine braking (1st: L position)	1. Low coast modulator valve 2. Off-vehicle repair matrix chart	★ -
No engine braking (2nd: 2 position)	1. 2nd coast modulator valve 2. Off-vehicle repair matrix chart	★ -
No kick-down	1. 1-2 shift valve 2. 2-3 shift valve 3. 3-4 shift valve	★ ★ ★

Chapter 3: Off-vehicle repair**(★: A541E automatic transaxle repair manual Pub. No. RM326U)**

Symptom	Suspect Area	See page
Vehicle does not move in any forward position and reverse position	1. Front and rear planetary gear 2. O/D planetary gear 3. O/D one-way clutch (F ₀) 4. O/D direct clutch (C ₀) 5. Forward clutch (C ₁) 6. O/D brake (B ₀)	★ ★ ★ ★ ★ ★
Vehicle does not move in R position	1. Front and rear planetary gear unit 2. Direct clutch (C ₂) 3. O/D direct clutch (C ₀) 4. 1st & reverse brake (B ₃)	★ ★ ★ ★
No up-shift (1st → 2nd)	1. No. 1 one-way clutch (F ₁) 2. 2nd brake (B ₂)	★ ★
No up-shift (2nd → 3rd)	Direct clutch (C ₂)	★
No up-shift (3rd → O/D)	O/D brake (B ₀)	★
No lock-up or No lock-up off	Torque converter clutch	★
Harsh engagement (N → D)	1. Forward clutch (C ₁) 2. O/D one-way clutch (F ₀) 3. No. 2 one-way clutch (F ₂)	★ ★ ★
Harsh engagement (N → R)	1. Direct clutch (C ₂) 2. 1st & reverse brake (B ₃)	★ ★
Harsh engagement (Lock-up)	Torque converter clutch	★
Slip or shudder (Forward position: After warm-up)	1. Torque converter clutch 2. O/D direct clutch (C ₀) 3. Forward clutch (C ₁) 4. O/D one-way clutch (F ₀)	★ ★ ★ ★
Slip or shudder (R position)	1. Direct clutch (C ₂) 2. 1st & reverse brake (B ₃) 3. O/D direct clutch (C ₀)	★ ★ ★
Slip or shudder (1st)	No. 2 one-way clutch (F ₂)	★
Slip or shudder (2nd)	1. No. 1 one-way clutch (F ₁) 2. 2nd brake (B ₂)	★ ★
Slip or shudder (3rd)	Direct clutch (C ₂)	★
Slip or shudder (O/D)	O/D brake (B ₀)	★
No engine braking (1st ~ 3rd: D position)	2nd brake (B ₂)	★
No engine braking (1st: L position)	1st & reverse brake (B ₃)	★
No engine braking (2nd: 2 position)	2nd coast brake (B ₁)	★
Poor acceleration (All position)	1. Torque converter clutch 2. O/D planetary gear	★ ★
Poor acceleration (O/D)	1. O/D direct clutch (C ₀) 2. O/D planetary gear	★ ★
Large shift shock or engine stalls when starting off or stopping	Torque converter clutch	★