

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 Engine and ECT ECU.

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)	Engine and ECT ECU	IN-35
No up –shift (3rd → O/D)	1. O/D main switch & O/D OFF indicator circuit 2. Engine and ECT ECU	DI-61 IN-35
No down –shift (O/D → 3rd)	1. O/D main switch & O/D OFF indicator circuit 2. Engine and ECT ECU	DI-61 IN-35
No down –shift (A particular gear, from 1st to 3rd gear, is not –down shifted)	Engine and ECT ECU	IN-35
No lock –up	1. Stop light switch signal circuit 2. Engine and ECT ECU	DI-57 IN-35
No lock –up off	Engine and ECT ECU	IN-35
Shift point too high or too low	1. Pattern select switch circuit 2. L4 position switch circuit 3. Engine and ECT ECU	DI-65 DI-75 IN-35
Up–shift to O/D from 3rd while O/D main switch is OFF	1. O/D main switch & O/D OFF indicator circuit 2. Engine and ECT ECU	DI-61 IN-35
Up–shift to O/D from 3rd while engine is cold	Engine and ECT ECU	IN-35
No kick –down	Engine and ECT ECU	IN-35
Engine stalls when starting off or stopping	Engine and ECT ECU	IN-35
No pattern select	1. Pattern select switch circuit 2. Engine and ECT ECU	DI-65 IN-35
No 2nd start	1. Pattern select switch circuit 2. Engine and ECT ECU	DI-68 IN-35
A/T.P. indicator light does not light up	1. A/T. P. indicator light circuit 2. Engine and ECT ECU	DI-72 IN-35

CHAPTER 2: ON-VEHICLE REPAIR**(□ : A343F AUTOMATIC TRANSMISSION Repair Manual Pub. No. RM528E)**

Symptom	Suspect Area	See page
Vehicle does not move in any forward range and reverse range	1. Transmission control rod 2. Manual valve 3. Parking lock pawl 4. Off –vehicle repair matrix chart	DI-4 □ AT-14 –
Vehicle does not move in R range	Off –vehicle repair matrix chart	–
Vehicle does not move in particular range or ranges (except R range)	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)	1. 3–4 shift valve 2. Off –vehicle repair matrix chart	□
No down –shift (3rd → 2nd)	1. 2–3 shift valve 2. Off –vehicle repair matrix chart	□ –
No down –shift (2nd → 1st)	1. 1–2 shift valve 2. Off –vehicle repair matrix chart	□
No lock –up or No lock –up off	1. Lock –up control valve 2. Lock –up relay valve 3. Off –vehicle repair matrix chart	□ □ –
Harsh engagement (N → D)	1. Accumulator control valve 2. Solenoid modulator valve 3. C ₁ accumulator 4. Orifice control valve 5. Off –vehicle repair matrix chart	□ □ □ □ –
Harsh engagement (Lock –up)	1. Lock –up control valve 2. Lock –up relay valve 3. Solenoid relay valve 4. Off –vehicle repair matrix chart	□ □ □ –
Harsh engagement (N → R)	1. Accumulator control valve 2. C ₂ accumulator 3. Solenoid modulator valve 4. Off –vehicle repair matrix chart	□ □ □ –
Harsh engagement (N → L)	Low coast modulator valve	□
Harsh engagement (1st → 2nd → 3rd → O/D)	1. Accumulator control valve 2. Solenoid modulator valve	□ □
Harsh engagement (2nd → 3rd)	1. Accumulator control valve 2. Solenoid modulator valve 3. C ₂ accumulator 4. Off –vehicle repair matrix chart	□ □ □ –
Harsh engagement (3rd → O/D)	1. Accumulator control valve 2. Solenoid modulator valve 3. B ₀ accumulator 4. Off –vehicle repair matrix chart	□ □ □ –

Symptom	Suspect Area	See page
Harsh engagement (O/D → 3rd)	1. Accumulator control valve 2. Solenoid modulator valve 3. C ₀ accumulator 4. Off – vehicle repair matrix chart	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> –
Slip or shudder (Forward and reverse)	1. Transmission control rod 2. Oil strainer 3. Pressure relief valve 4. Off – vehicle repair matrix chart	DI-4 AT-10 <input type="checkbox"/> –
Slip or shudder (Particular range)	1. Transmission control rod 2. Off – vehicle repair matrix chart	DI-4 –
No engine braking (1st: L range)	1. Low coast modulator valve 2. Off – vehicle repair matrix chart	<input type="checkbox"/> –
No engine braking (2nd: 2 range)	1. 2nd coast modulator valve 2. Off – vehicle repair matrix chart	<input type="checkbox"/> –
No kick –down	1. 1–2 shift valve 2. 2 –3 shift valve	<input type="checkbox"/> <input type="checkbox"/>

CHAPTER 3: OFF-VEHICLE REPAIR**(□ : A343F AUTOMATIC TRANSMISSION Repair Manual Pub. No. RM528E)**

Symptom	Suspect Area	See page
Vehicle does not move in any forward range and reverse range	1. O/D one –way clutch (F ₀) 2. O/D direct clutch (C ₀) 3. O/D planetary gear unit 4. Torque converter	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> AT-35
Vehicle does not move in R range	1. Front and rear planetary gear unit 2. Direct clutch (C ₂) 3. 1st & reverse brake (B ₃) 4. O/D direct clutch (C ₀)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
No up –shift (1st → 2nd)	1. 2nd brake (B ₂) 2. No. 1 one–way clutch (F ₁)	<input type="checkbox"/> <input type="checkbox"/>
No up –shift (2nd → 3rd)	Direct clutch (C ₂)	<input type="checkbox"/>
No up –shift (3rd → O/D)	O/D brake (B ₀)	<input type="checkbox"/>
No lock –up or No lock –up off	Torque converter	AT-35
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)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Harsh engagement (N → R)	1. Direct clutch (C ₂) 2. 1st & reverse brake (B ₃) 3. O/D one –way clutch (F ₀)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Harsh engagement (N → 2)	1. Forward clutch (C ₁) 2. O/D one –way clutch (F ₀) 3. No. 2 one –way clutch (F ₂)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Harsh engagement (N → L)	1. Forward clutch (C ₁) 2. 1st & reverse brake (B ₃) 3. O/D one –way clutch (F ₀) 4. No. 2 one –way clutch (F ₂)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Harsh engagement (Lock –up)	Torque converter	AT-35
Slip or shudder (Forward and reverse: After warm –up)	1. Torque converter 2. O/D one –way clutch (F ₀) 3. O/D direct clutch (C ₀)	AT-35 <input type="checkbox"/> <input type="checkbox"/>
Slip or shudder (Particular range: Just after engine starts)	Torque converter	AT-35
Slip or shudder (R range)	1. Direct clutch (C ₂) 2. 1st & reverse brake (B ₃)	<input type="checkbox"/> <input type="checkbox"/>
Slip or shudder (1st)	1. Forward clutch (C ₁) 2. No. 2 one –way clutch (F ₂)	<input type="checkbox"/> <input type="checkbox"/>
Slip or shudder (2nd)	1. 2nd brake (B ₂) 2. 2nd coast brake (B ₁) 3. No. 1 one–way clutch (F ₁)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Slip or shudder (3rd)	Direct clutch (C ₂)	<input type="checkbox"/>
Slip or shudder (O/D)	O/D brake (B ₀)	<input type="checkbox"/>
No engine braking (1st – 3rd: D range)	2nd brake (B ₂)	<input type="checkbox"/>
No engine braking (1st: L range)	1st & reverse brake (B ₃)	<input type="checkbox"/>
No engine braking (2nd: 2 range)	2nd coast brake (B ₁)	<input type="checkbox"/>
Poor acceleration (All range)	Torque converter	AT-35
Poor acceleration (O/D)	1. O/D direct clutch (C ₀) 2. O/D planetary gear unit	<input type="checkbox"/> <input type="checkbox"/>
Engine stalls when starting off or stopping	Torque converter	AT-35