PROBLEM SYMPTOMS TABLE

HINT:

If no DTCs are 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 cause of trouble is considered to be electrical.
- If the trouble still occurs even though there are no abnormalities in any of the other circuits, check and replace the ECM.

HINT:

*1: Denotes that when there are malfunctions in the circuit, DTCs may be set.

Symptom	Suspected area	See page
No up-shift (A particular gear, from 1st to 4th gear, is not up-shifted)	1. Shift solenoid valve (S1) circuit *1	AT-101
	2. Shift solenoid valve (S2) circuit *1	AT-104
	3. ECM	IN-34
	1. Transmission control switch circuit (D - 4) *1	AT-43
	2. Engine coolant temperature sensor circuit *1	ES-104
	3. Speed sensor NT circuit *1	AT-57
No up-shift (4th -> 5th)	4. Shift solenoid valve (SL1) circuit *1	AT-67
	5. Shift solenoid valve (SL2) circuit *1	AT-92
	6. Shift solenoid valve (SR) circuit *1	AT-107
	7. ECM	IN-34
	Engine coolant temperature sensor circuit *1	ES-104
No up-shift (3rd -> 4th)	2. Shift solenoid valve (S2) circuit *1	AT-104
	3. ECM	IN-34
	1. Transmission control switch circuit (2 - L) *1	AT-43
No up-shift (1st -> 2nd)	2. Shift solenoid valve (S2) circuit *1	AT-104
	3. ECM	IN-34
	1. Transmission control switch circuit (D - 4) *1	AT-43
	2. Shift solenoid valve (SL1) circuit *1	AT-67
No down-shift (5th -> 4th)	3. Shift solenoid valve (SL2) circuit *1	AT-92
	4. Shift solenoid valve (SR) circuit *1	AT-107
	5. ECM	IN-34
	1. Transmission control switch circuit (2 - L) *1	AT-43
No down-shift (2nd -> 1st)	2. Shift solenoid valve (S2) circuit *1	AT-104
	3. ECM	IN-34
No down-shift (A particular gear, from 1st to 4th gear, is not down-shifted)	1. Shift solenoid valve (S1) circuit *1	AT-101
	2. Shift solenoid valve (S2) circuit *1	AT-104
	3. ECM	IN-34





Symptom	Suspected area	See page
No lock-up	1. ATF temperature sensor circuit *1	AT-49
	2. Transfer L4 position switch circuit *1	AT-136
	3. Stop light switch circuit *1	ES-272
	4. Speed sensor NT circuit *1	AT-57
	5. Shift solenoid valve (SLU) circuit *1	AT-132
	6. Engine coolant temperature sensor circuit *1	ES-104
	7. ECM	IN-34
No look up off	Shift solenoid valve (SLU) circuit *1	AT-132
No lock-up off	2. ECM	IN-34
	Shift solenoid valve (SLT) circuit *1	AT-118
	2. Speed sensor NT circuit *1	AT-57
	3. Speed sensor SP2 circuit *1	AT-62
Shift point too high or too low	4. Throttle position sensor circuit *1	ES-112
	5. ATF temperature sensor circuit *1	AT-49
	6. Transfer L4 position switch circuit *1	AT-136
	7. ECM	IN-34
Up shift from 4th to 5th while shift layer is in 4 position	1. Transmission control switch circuit (D - 4) *1	AT-43
Up-shift from 4th to 5th while shift lever is in 4 position	2. ECM	IN-34
Lie abife from 44b to 54b while organic is cold	Engine coolant temperature sensor circuit *1	ES-104
Up-shift from 4th to 5th while engine is cold	2. ECM	IN-34
Harakii Gara Ooda Alkaakii ahii baasii ahii oo aasii ah	Park/neutral position switch circuit *1	AT-43
Up-shift from 3rd to 4th while shift lever is in 3 position	2. ECM	IN-34
Harakii (saas Oadda Oadakii askii laasa ista Osaasii a	Park/neutral position switch circuit *1	AT-43
Up-shift from 2nd to 3rd while shift lever is in 2 position	2. ECM	IN-34
He shift for a Art to Orderly to shift become to to be a shift.	1. Transmission control switch circuit (2 - L) *1	AT-43
Up-shift from 1st to 2nd while shift lever is in L position	2. ECM	IN-34
	1. Speed sensor NT circuit *1	AT-57
Harab an anamara (N D)	2. Shift solenoid valve (SL1) circuit *1	AT-67
Harsh engagement (N -> D)	3. Shift solenoid valve (SLT) circuit *1	AT-118
	4. ECM	IN-34
	1. Speed sensor NT circuit *1	AT-57
Harak a company and (Land Lam)	2. Speed sensor SP2 circuit *1	AT-62
Harsh engagement (Lock-up)	3. Shift solenoid valve (SLU) circuit *1	AT-132
	4. ECM	IN-34
Harsh engagement (Any driving position)	ECM	IN-34
	1. No. 2 ATF temperature sensor circuit *1	AT-122
Door cooleration	2. Engine coolant temperature sensor circuit *1	ES-104
Poor acceleration	3. Shift solenoid valve (SLT) circuit *1	AT-118
	4. ECM	IN-34
No engine braking	ECM	IN-34
No kick-down	ECM	IN-34
Engine stelle when starting off an along in	1. Shift solenoid valve (SLU) circuit *1	AT-132
Engine stalls when starting off or stopping	2. ECM	IN-34
	1. No. 2 ATF temperature sensor circuit *1	AT-122
ATF temperature warning light remains on	2. Engine coolant temperature sensor circuit *1	ES-104
	3. ECM	IN-34
	1. No. 2 ATF temperature sensor circuit *1	AT-122
Lock-up at 3rd gear	2. Engine coolant temperature sensor circuit *1	ES-104
, ,	3. ECM	IN-34

Symptom	Suspected area	See page
Shift point too high	1. No. 2 ATF temperature sensor circuit *1	AT-122
	2. Engine coolant temperature sensor circuit *1	ES-104
	3. ECM	IN-34

Chapter 2: On-Vehicle Repair and Off-Vehicle Repair (▲: A750E, A750F AUTOMATIC TRANSMISSION Repair Manual Pub. No. RM999U)

AT

Symptom	Suspected area	See page
	1. Transmission control cable	AT-158
Vehicle does not move in any forward positions or reverse position	2. Manual valve	A
	3. Parking lock pawl	A
	4. Rear planetary gear unit	A
	5. Torque converter clutch	AT-169
	1. Valve body assembly	AT-147
	2. No. 3 clutch (C3)	A
Vehicle does not move in R position	3. No. 4 brake (B4)	A
	4. No. 1 one-way clutch (F1)	A
	1. Valve body assembly	AT-147
	2. No. 3 brake (B3)	A
No up-shift (1st -> 2nd)	3. No. 1 one-way clutch (F1)	A
	4. No. 2 one-way clutch (F2)	A
	1. Valve body assembly	AT-147
No up-shift (2nd -> 3rd)	2. No. 3 clutch (C3)	A
	1. Valve body assembly	AT-147
No up-shift (3rd -> 4th)	2. No. 2 clutch (C2)	A
	1. Valve body assembly	AT-147
No up-shift (4th -> 5th)	2. No. 1 brake (B1)	A
	3. No. 1 clutch (C1)	A
No down-shift (5th -> 4th)	Valve body assembly	AT-147
No down-shift (4th -> 3rd)	Valve body assembly	AT-147
No down-shift (3rd -> 2nd)	Valve body assembly	AT-147
No down-shift (2nd -> 1st)	Valve body assembly	AT-147
No lock-up or No lock-up off	1. Shift solenoid valve (SLU)	AT-127
	2. Valve body assembly	AT-147
	3. Torque converter clutch	AT-169
	1. Shift solenoid valve (SL1)	AT-82
Harsh engagement (N -> D)	2. Valve body assembly	AT-147
	3. C1 accumulator	A
, ,	4. No. 1 clutch (C1)	A
	5. No. 3 one-way clutch (F3)	A
Harsh engagement (Lock-up)	1. Shift solenoid valve (SLU)	AT-127
	2. Valve body assembly	AT-147
	3. Torque converter clutch	AT-169



Symptom	Suspected area	See page
Harsh engagement (N -> R)	1. Shift solenoid valve (SLT)	AT-111
	2. Shift solenoid valve (SLU)	AT-127
	3. Valve body assembly	AT-147
	4. C3 accumulator	A
	5. No. 3 clutch (C3)	A
	6. No. 4 brake (B4)	A
	7. No. 1 one-way clutch (F1)	A
	1. Shift solenoid valve (SLT)	AT-111
Harsh engagement (1st -> 2nd -> 3rd -> 4th -> 5th)	2. Shift solenoid valve (SL1)	AT-82
	3. Valve body assembly	AT-147
	1. Valve body assembly	AT-147
	2. B3 accumulator	A
Harsh engagement (1st -> 2nd)	3. No. 3 brake (B3)	A
	4. No. 1 one-way clutch (F1)	A
	5. No. 2 one-way clutch (F2)	A
	Valve body assembly	AT-147
Harsh engagement (2nd -> 3rd)	2. C3 accumulator	A
	3. No. 3 clutch (C3)	A
	Valve body assembly	AT-147
Harsh engagement (3rd -> 4th)	2. C2 accumulator	A
and the state of t	3. No. 2 clutch (C2)	_
	1. Shift solenoid valve (SL1)	AT-82
	2. Shift solenoid valve (SL2)	AT-87
Harsh engagement (4th -> 5th)	3. Valve body assembly	AT-147
na.a. a.gagaman (iii. 7 ai.,	4. No. 1 brake (B1)	A
	5. No. 1 clutch (C1)	A
	Valve body assembly	AT-147
	2. Oil strainer	AT-147
Slippage or shuddering (Forward and reverse: After	3. No. 1 one-way clutch (F1)	A
warm-up)	4. No. 3 clutch (C3)	
	5. Torque converter clutch	AT-169
Slippage or shuddering (Particular position: Just after engine starts)	Torque converter clutch	AT-169
	1. No. 4 brake (B4)	A
Slippage or shuddering (R position)	2. No. 1 one-way clutch (F1)	_
	3. No. 3 clutch (C3)	
	1. No. 1 clutch (C1)	
Slippage or shuddering (1st)	2. No. 3 one-way clutch (F3)	
	1. No. 1 clutch (C1)	
Slippage or shuddering (2nd)		
	2. No. 3 brake (B3)	A
	3. No. 1 one-way clutch (F1)	A
	4. No. 2 one-way clutch (F2)	A

Symptom	Suspected area	See page
Slippage or shuddering (3rd)	1. No. 1 clutch (C1)	A
	2. No. 3 clutch (C3)	A
	3. No. 1 one-way clutch (F1)	A
Slippage or shuddering (4th)	1. No. 1 clutch (C1)	A
	2. No. 2 clutch (C2)	A
	1. No. 2 clutch (C2)	A
Slippage or shuddering (5th)	2. No. 3 clutch (C3)	A
	3. No. 1 brake (B1)	A
Engine brake does not work only in 1st to 4th gear at D position	No. 1 clutch (C1)	A
Engine brake does not work only in 1st gear at L	1. Valve body assembly	AT-147
position	2. No. 4 brake (B4)	A
Engine brake does not work only in 2nd gear at 2	1. Valve body assembly	AT-147
position	2. No. 2 brake (B2)	A
Engine brake does not work only in 3rd gear at 3	1. Valve body assembly	AT-147
position	2. No. 1 brake (B1)	A
No kick-down	Valve body assembly	AT-147
	1. Shift solenoid valve (SLT)	AT-111
Shift point too high or too low	2. Shift solenoid valve (SL1)	AT-82
	3. Valve body assembly	AT-147
	1. Shift solenoid valve (SLT)	AT-111
Poor acceleration (All positions)	2. Valve body assembly	AT-147
	3. Torque converter clutch	AT-169
Poor acceleration (5th)	1. No. 1 clutch (C1)	•
	2. No. 3 clutch (C3)	A
	3. No. 1 brake (B1)	A
	4. Front planetary gear unit	A
	1. Shift solenoid valve (SLU)	AT-127
Engine stalls when starting off or stopping	2. Valve body assembly	AT-147
	3. Torque converter clutch	AT-169

