U151F AUTOMATIC TRANSAXLE SERVICE DATA

U151F		
Line pressure (Wheel locked)		
Zino processio (vineeriestica)	Engine	
	idling	
	D position	372 to 412 kPa (3.8 to 4.2 kgf*cm ² , 54 to 60 psi)
	R position	672 to 742 kPa (6.9 to 7.6 kgf*cm ² , 97 to 108 psi)
	AT stall (Throttle valve fully opened)	
	D position	931 to 1,031 kPa (9.5 to 10.5 kgf*cm ² , 135 to 150 psi)
	R position	1,768 to 1,968 kPa (18.0 to 20.1 kgf*cm ² , 256 to 285 psi)
Engine stall revolution	D and R positions	2,550 +- 150 rpm
Time lag	$N \rightarrow D$ position	Less than 1.2 seconds
	$N \rightarrow R$ position	Less than 1.5 seconds
Engine idle speed (A/C OFF)	N position	650 +- 50 rpm
Drive plate runout	Max.	0.20 mm (0.0079 in.)
Torque converter runout	Max.	0.30 mm (0.0118 in.)
Differential oil seal drive in depth	LH side	0 +- 0.5 mm (0 +- 0.020 in.)
	RH side	6.0 +- 0.5 mm (0.236 +- 0.020 in.)
Shift schedule (Shift lever with Multi-mode automatic tra shift type)	nsmission & Gate	
D position (Throttle valve fully opened)		10. 10. 1. (0
(Company spaces)	1 → 2	42 to 49 km/h (26 to 30 mph)
	$2 \rightarrow 3$	81 to 88 km/h (50 to 55 mph)
	$3 \rightarrow 4$	132 to 143 km/h (82 to 89 mph)
	4 → 5	195 to 207 km/h (121 to 129 mph)
	5 → 4	187 to 200 km/h (116 to 124 mph)
	$4 \rightarrow 3$	128 to 139 km/h (80 to 86 mph)
	$3 \rightarrow 2$	76 to 82 km/h (47 to 51 mph)
(Thereties and to fellow decay)	2 → 1	36 to 42 km/h (22 to 26 mph)
(Throttle valve fully closed)	4 → 5	46 to 51 km/h (29 to 32 mph)
Lock up point	5 → 4	35 to 41 km/h (22 to 25 mph)
Lock-up point	Throttle valve opening 5 %	
D position		
5th gear	Lock-up ON	83 to 90 km/h (52 to 56 mph)
	Lock-up OFF	81 to 87 km/h (50 to 54 mph)
4th gear	Lock-up ON	100 to 107 km/h (62 to 66 mph)
	Lock-up OFF	97 to 104 km/h (60 to 65 mph)



U151F		
3th gear	Lock-up ON	65 to 72 km/h (40 to 45 mph)
	Lock-up OFF	62 to 68 km/h (39 to 42 mph)

Oil pump		
Body clearance	STD	0.10 to 0.17 mm (0.0039 to 0.0067 in.)
	Max.	0.17 mm (0.0067 in.)
Tip clearance	STD	0.07 to 0.15 mm (0.0028 to 0.0059 in.)
	Max.	0.15 mm (0.0059 in.)
Side clearance	STD	0.02 to 0.05 mm (0.0008 to 0.0020 in.)
	Max.	0.05 mm (0.0020 in.)
Drive gear thickness	Mark	
	А	11.690 to 11.699 mm (0.4602 to 0.4606 in.)
	В	11.700 to 11.709 mm (0.4606 to 0.4610 in.)
	С	11.710 to 11.720 mm (0.4610 to 0.4614 in.)
	D	11.721 to 11.730 mm (0.4615 to 0.4618 in.)
	E	11.731 to 11.740 mm (0.4619 to 0.4622 in.)
Driven gear thickness	Mark	
	А	11.690 to 11.699 mm (0.4602 to 0.4606 in.)
	В	11.700 to 11.709 mm (0.4606 to 0.4610 in.)
	С	11.710 to 11.720 mm (0.4610 to 0.4614 in.)
	D	11.721 to 11.730 mm (0.4615 to 0.4618 in.)
	E	11.731 to 11.740 mm (0.4619 to 0.4622 in.)
Pump body bushing inside diameter	STD	38.113 to 38.138 mm (1.50050 to 1.50149 in.)
	Max.	38.188 mm (1.50346 in.)
Stator shaft bushing inside diameter	STD	21.500 to 21.526 mm (0.84646 to 0.84748 in.)
	Max.	21.57 mm (0.8492 in.)

Multiple disc clutch		
Inside diameter	STD	23.025 to 23.045 mm (0.9065 to 0.9073 in.)
	Max.	23.09 mm (0.9091 in.)

Forward clutch		
Pack clearance		1.00 to 1.25 mm (0.0394 to 0.4921 in.)
Return spring free length		26.74 mm (1.0528 in.)
Flange thickness	Mark	
	1	3.00 mm (0.1181 in.)
	2	3.15 mm (0.1240 in.)
	3	3.30 mm (0.1299 in.)
	4	3.45 mm (0.1358 in.)
	5	3.60 mm (0.1417 in.)

Reverse clutch	
Pack clearance:	0.60 to 0.82 mm (0.02362 to 0.03228 in.)

Reverse clutch		
Flange thickness	Mark	
	1	3.0 mm (0.118 in.)
	2	3.1 mm (0.122 in.)
	3	3.2 mm (0.126 in.)
	4	3.3 mm (0.130 in.)
	5	3.4 mm (0.134 in.)
	6	3.5 mm (0.138 in.)
	7	3.6 mm (0.142 in.)

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Direct clutch & O/D clutch		
Pack clearance Return spring free length		0.61 to 0.83 mm (0.02401 to 0.03268 in.) 25.91 mm (1.0201 in.)
	0	2.5 mm (0.098 in.)
	1	2.6 mm (0.102 in.)
	2	2.7 mm (0.106 in.)
	3	2.8 mm (0.110 in.)
	4	2.9 mm (0.114 in.)
	5	3.0 mm (0.118 in.)
	6	3.1 mm (0.122 in.)

2nd brake		
Pack clearance		0.62 to 0.91 mm (0.0244 to 0.0358 in.)
Return spring free length		16.61 mm (0.6539 in.)
Flange thickness	Mark	
	1	3.0 mm (0.118 in.)
	2	3.1 mm (0.122 in.)
	3	3.2 mm (0.126 in.)
	4	3.3 mm (0.130 in.)
	5	3.4 mm (0.134 in.)
	6	3.5 mm (0.138 in.)
	7	3.6 mm (0.142 in.)

U/D clutch		
Pack clearance		1.51 to 1.71 mm (0.0594 to 0.0673 in.)
U/D clutch drum bushing inside diameter	STD	37.06 to 37.08 mm (1.4591 to 1.4598 in.)
	Max.	37.13 mm (1.4618 in.)
Return spring free length	·	17.14 mm (0.6752 in.)
Flange thickness	Mark	
	1	3.0 mm (0.118 in.)
	2	3.1 mm (0.122 in.)
	3	3.2 mm (0.126 in.)
	4	3.3 mm (0.130 in.)
	5	3.4 mm (0.134 in.)

U/D brake	
Pack clearance	1.81 to 2.20 mm (0.0713 to 0.0866 in.)
Return spring free length	14.04 mm (0.5528 in.)

U/D brake		
Flange thickness	Mark	
	1	3.0 mm (0.118 in.)
	2	3.2 mm (0.126 in.)
	3	3.4 mm (0.134 in.)

1st & reverse brake		
Pack clearance		1.16 to 1.35 mm (0.0457 to 0.0531in.)
Return spring free length		15.53 mm (0.6114 in.)
Flange thickness	Mark	
	1	1.8 mm (0.071 in.)
	2	1.9 mm (0.075 in.)
	3	2.0 mm (0.079 in.)
	4	2.1 mm (0.083 in.)
	5	2.2 mm (0.087 in.)
	6	2.3 mm (0.091 in.)
	7	2.4 mm (0.094 in.)
	8	2.5 mm (0.098 in.)

U/D planetary gear	
Preload (at 60 rpm)	0.50 to 1.42 N*m (5.1 to 14.5 kgf*cm, 0.06 to 0.17 in.*lbf)

Front planetary gear		
Turning torque (at 60 rpm)	New Bearing	0.51 to 1.02 N*m (5.1 to 10.0 kgf*cm, 4.4 to 8.7 in.*lbf)
	Used Bearing	0.26 to 0.51 N*m (2.7 to 5.2 kgf*cm, 2.3 to 4.5 in.*lbf)

Input shaft	
End play	0.262 to 1.249 mm (0.0103 to 0.0492 in.)

Transaxle rear cover	
Bearing press fit depth	20.55 to 21.25 mm (0.8091 to 0.8366 in.)

Transmission valve body		
Valve body installation bolt length	A	41 mm (1.614 in.)
	В	57 mm (2.244 in.)
	С	25 mm (0.984 in.)

Accumulator			
Spring		Free length/Outer diameter	Color
B ₃	Inner	62.00 (2.4409) / 15.50 (0.610)	Purple
	Outer	74.23 (2.9224) / 16.50 (0.649)	Purple
C ₂	·	60.96 (2.3999) / 14.10 (0.555)	Yellow
C ₃		72.20 (2.8425) / 19.0 (0.748)	Colorless

Front differential (U151F)	
Side gear backlash	0.05 to 0.20 mm (0.0020 to 0.0079 in.)

Front differential (U151F)		
Thrust washer thickness		
= Clearance - 0.162 to 0.265 mm (0.0064 to 0.0104 in.)	Mark	1
	Α	0.95 mm (0.0373 in.)
	В	1.00 mm (0.0393 in.)
	С	1.05 mm (0.0413 in.)
	D	1.10 mm (0.0433 in.)
	E	1.15 mm (0.0453 in.)
	F	1.20 mm (0.0472 in.)
	G	1.25 mm (0.0492 in.)
	Н	1.30 mm (0.0512 in.)
	J	1.35 mm (0.0532 in.)
	K	1.40 mm (0.0552 in.)
Pinion's backlash		0.05 to 0.20 mm (0.0020 to 0.0079 in.)
Thrust washer thickness	Mark	0.00 to 0.20 mm (0.0020 to 0.0070 m.)
Tillust washer tillokliess	MA	0.80 mm (0.0313 in.)
	MB	0.85 mm (0.0333 in.)
	MC	0.90 mm (0.0353 in.)
	MD	
		0.95 mm (0.0373 in.)
	ME	1.00 mm (0.0393 in.)
	MF	1.05 mm (0.0413 in.)
	MG	1.10 mm (0.0433 in.)
	MH	1.15 mm (0.0453 in.)
	MJ	1.20 mm (0.0472 in.)
	MK	1.25 mm (0.0492 in.)
	ML	1.30 mm (0.0512 in.)
	MM	1.35 mm (0.0532 in.)
	MN	1.40 mm (0.0552 in.)
Preload (at 60 rpm)	New bearing	0.20 to 0.69 N*m (2.0 to 7.0 kgf*cm, 1.8 to 6.1 in.*lbf)
	Used bearing	0.10 to 0.35 N*m (1.0 to 3.6 kgf*cm, 0.9 to 3.1 in.*lbf)
Flange thickness	Mark	
	0	2.00 mm (0.0787 in.)
	1	2.05 mm (0.0807 in.)
	2	2.10 mm (0.0827 in.)
	3	2.15 mm (0.0846 in.)
	4	2.20 mm (0.0866 in.)
	5	2.25 mm (0.0886 in.)
	6	2.30 mm (0.0906 in.)
	7	2.35 mm (0.0925 in.)
	8	2.40 mm (0.0945 in.)
	9	2.45 mm (0.0965 in.)
	Α	2.50 mm (0.0984 in.)
	В	2.55 mm (0.1004 in.)
	С	2.60 mm (0.1024 in.)
	D	2.65 mm (0.1043 in.)
	Е	2.70 mm (0.1063 in.)
	F	2.75 mm (0.1083 in.)
	G	2.80 mm (0.1102 in.)
	Н	2.85 mm (0.1122 in.)
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Front differential (U151F)	
Oil seal press in depth	5.5 to 6.5 mm (0.217 to 0.256 in.)

