

AUTOMATIC TRANSMISSION / TRANSAXLE

SERVICE DATA

0305K-05

Oil pump		
Body clearance	STD	0.10 - 0.17 mm (0.0039 - 0.0067 in.)
	Max.	0.17 mm (0.0067 in.)
Tip clearance	STD	0.07 - 0.15 mm (0.0028 - 0.0059 in.)
	Max.	0.15 mm (0.0059 in.)
Side clearance	STD	0.02 - 0.05 mm (0.0008 - 0.0020 in.)
	Max.	0.05 mm (0.0020 in.)
Drive gear thickness	Mark	
	A	11.690 - 11.699 mm (0.4602 - 0.4606 in.)
	B	11.700 - 11.709 mm (0.4606 - 0.4610 in.)
	C	11.710 - 11.720 mm (0.4610 - 0.4614 in.)
	D	11.721 - 11.730 mm (0.4615 - 0.4618 in.)
	E	11.731 - 11.740 mm (0.4619 - 0.4622 in.)
Driven gear thickness	Mark	
	A	11.690 - 11.699 mm (0.4602 - 0.4606 in.)
	B	11.700 - 11.709 mm (0.4606 - 0.4610 in.)
	C	11.710 - 11.720 mm (0.4610 - 0.4614 in.)
	D	11.721 - 11.730 mm (0.4615 - 0.4618 in.)
	E	11.731 - 11.740 mm (0.4619 - 0.4622 in.)
Pump body bushing inside diameter	STD	38.113 - 38.138 mm (1.50050 - 1.50149 in.)
	Max.	38.138 mm (1.50149 in.)
Stator shaft bushing inside diameter	STD	21.500 - 21.526 mm (0.84646 - 0.84748 in.)
	Max.	21.526 mm (0.84748 in.)
Multiple disc clutch		
Inside diameter	STD	23.025 - 23.045 mm (0.9065 - 0.9073 in.)
	Max.	23.09 mm (0.9091 in.)
Forward clutch		
Pack clearance		1.00 - 1.25 mm (0.0394 - 0.4921 in.)
Return spring free length		26.76 mm (1.0535 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 - 0.82 mm (0.02362 - 0.03228 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.)

SERVICE SPECIFICATIONS - AUTOMATIC TRANSMISSION / TRANSAXLE

Direct clutch & O/D clutch		
Pack clearance		0.60 - 0.82 mm (0.02362 - 0.03228 in.)
Return spring free length		25.91 mm (1.0201 in.)
Flange thickness	Mark	
	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 - 0.91 mm (0.0244 - 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 - 1.71 mm (0.0594 - 0.0673 in.)
U/D clutch drum bushing inside diameter	STD Max.	37.06 - 37.08 mm (1.4591 - 1.4598 in.) 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 - 2.20 mm (0.0713 - 0.0866 in.)
Return spring free length		14.04 mm (0.5528 in.)
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 - 1.35 mm (0.0457 - 0.0531 in.)
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)		2.140 - 5.40 N·m (21.8 - 55.1 kgf·cm, 0.24 - 0.61 in.·lbf)	
Front planetary gear			
Turning torque (at 60 rpm)	New Bearing	0.51 - 1.02 N·m (5.1 - 10.0 kgf·cm, 4.4 - 8.7 in.·lbf)	
	Used Bearing	0.26 - 0.51 N·m (2.7 - 5.2 kgf·cm, 2.3 - 4.5 in.·lbf)	
Input shaft			
End play		0.262 - 1.249 mm (0.0103 - 0.0492 in.)	
Transaxle rear cover			
Bearing press fit depth		20.55 - 21.25 mm (0.8091 - 0.8366 in.)	
Transmission valve body			
Valve body installation bolt length	A	25 mm (0.984 in.)	
	B	57 mm (2.244 in.)	
	C	41 mm (1.614 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			
Backlash		0.05 - 0.20 mm (0.0020 - 0.0079 in.)	
Thrust washer thickness	Mark		
	-	1.625 mm (0.0640 in.)	
	-	1.725 mm (0.0679 in.)	
	-	1.825 mm (0.0719 in.)	
Praload (at 60 rpm)	New bearing	0.20 - 0.69 N·m (2.0 - 7.0 kgf·cm, 1.8 - 6.1 in.·lbf)	
	Used bearing	0.10 - 0.35 N·m (1.0 - 3.6 kgf·cm, 0.9 - 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.)	
	A	2.50 mm (0.0984 in.)	
	B	2.55 mm (0.1004 in.)	
	C	2.60 mm (0.1024 in.)	
	D	2.65 mm (0.1043 in.)	
	E	2.70 mm (0.1063 in.)	
	F	2.75 mm (0.1083 in.)	
	G	2.80 mm (0.1102 in.)	
	H	2.85 mm (0.1122 in.)	