AUTOMATIC TRANSMISSION / TRANSAXLE

0305W–03

SERVICE DATA

OIL PUMP		
Body clearance	STD	0.10 – 0.17 mm (0.0039 – 0.0067 in.)
	Maximum	0.17 mm (0.0067 in.)
Tip clearance	STD	0.070 – 0.150 mm (0.0028 – 0.0059 in.)
	Maximum	0.150 mm (0.0059 in.)
Side clearance	STD	0.02 – 0.05 mm (0.0008 – 0.0020 in.)
	Maximum	0.05 mm (0.0020 in.)
Driver and driven gear thickness	0	10.740 – 10.749 mm (0.4228 – 0.4232 in.)
	1	10.750 – 10.759 mm (0.4232 – 0.4236 in.)
	2	10.760 – 10.770 mm (0.4236 – 0.4240 in.)
	3	10.771 – 10.780 mm (0.4241 – 0.4244 in.)
	4	10.781 – 10.790 mm (0.4244 – 0.4248 in.)
Pump body bushing inside diameter	Maximum	38.188 mm (1.504 in.)
Stator shaft bushing inside diameter	(Front side) Maximum	21.577 mm (0.850 in.)
	(Rear side) Maximum	32.08 mm (1.263 in.)

2nd BRAKE		
Piston return spring free length	STD	15.72 mm (0.619 in.)

B3 BRAKE		
Piston stroke		0.42 – 0.72 mm (0.017 – 0.028 in.)
Flange thickness	No. 0	2.0 mm (0.079 in.)
	No. 1	2.2 mm (0.087 in.)
	No. 2	2.4 mm (0.094 in.)
	No. 3	2.6 mm (0.102 in.)

FRONT PLANETARY GEAR		
Planetary gear bushing inside diameter	Maximum	57.48 mm (2.263 in.)
Planetary pinion gear thrust clearance	STD	0.2 – 0.6 mm (0.008 – 0.024 in.)
	Maximum	0.65 mm (0.026 in.)

BRAKE PISTON No.1		
Piston return spring free length	STD	17.05 mm (0.671 in.)

CENTER PLANETARY GEAR		
Planetary pinion gear thrust clearance	STD	0.12 – 0.68 mm (0.005 – 0.027 in.)
	Maximum	0.73 mm (0.029 in.)

B2 BRAKE		
Piston return spring free length	STD	17.45 mm (0.687 in.)

RR PLANETARY RING GEAR FLANGE		
Planetary ring gear flange bushing inside diameter	Maximum	32.175 mm (1.267 in.)

INTERMEDIATE SHAFT		
Intermediate shaft run out	Maximum	0.08 mm (0.003 in.)
Intermediate shaft diameter	STD A:	25.962 – 25.975 mm (1.022 – 1.023 in.)
	B:	25.962 – 25.975 mm (1.022 – 1.023 in.)
	C:	32.062 – 32.075 mm (1.262 – 1.263 in.)
	D:	32.062 – 32.075 mm (1.262 – 1.263 in.)
	Min A:	25.912 mm (1.020 in.)
	B:	25.912 mm (1.020 in.)
	C:	32.012 mm (1.260 in.)
	D:	32.012 mm (1.260 in.)

REAR PLANETARY GEAR		
Planetary pinion gear thrust clearance	STD	0.2 – 0.6 mm (0.008 – 0.024 in.)
	Maximum	0.65 mm (0.026 in.)
Planetary gear bushing inside diameter	Maximum	20.075 mm (0.790 in.)

1ST & REVERSE BRAKE		
Pack clearance		0.8 – 1.1 mm (0.032 – 0.043 in.)
Piston return spring free length	STD	23.74 mm (0.935 in.)
H thickness	No. 0	0 mm (0 in.)
	No. 2	0.2 mm (0.00787 in.)
	No. 4	0.4 mm (0.01575 in.)
	No. 6	0.6 mm (0.02362 in.)
	No. 8	0.8 mm (0.03150 in.)
	No. 10	1.0 mm (0.03937 in.)
	No. 12	1.2 mm (0.04724 in.)
	No. 14	1.4 mm (0.05512 in.)

DIRECT CLUTCH		
Pack clearance		0.50 – 0.80 mm (0.020 – 0.032 in.)
Clutch piston return spring free length	STD	19.51 mm (0.768 in.)
Flange thickness	No. 0	3.0 mm (0.118 in.)
	No. 1	3.1 mm (0.122 in.)
	No. 2	3.2 mm (0.126 in.)
	No. 3	3.3 mm (0.130 in.)
	No. 4	3.4 mm (0.134 in.)
	No. 5	3.5 mm (0.138 in.)
	No. 6	3.6 mm (0.142 in.)
	No. 7	3.7 mm (0.146 in.)
	No. 8	3.8 mm (0.150 in.)

REVERSE CLUTCH		
Reverse clutch drum bushing inside diameter	STD	35.812 – 35.837 mm (1.4099 – 1.4109 in.)
	Maximum	35.887 mm (1.4129 in.)
Pack clearance		0.50 – 0.80 mm (0.020 – 0.032 in.)
Clutch piston return spring free length	STD	21.04 mm (0.828 in.)
Flange thickness	No. 0	2.8 mm (0.110 in.)
	No. 1	2.9 mm (0.114 in.)
	No. 2	3.0 mm (0.118 in.)
	No. 3	3.1 mm (0.122 in.)
	No. 4	3.2 mm (0.126 in.)
	No. 5	3.3 mm (0.130 in.)
	No. 6	3.4 mm (0.134 in.)
	No. 7	3.5 mm (0.138 in.)
	No. 8	3.6 mm (0.142 in.)
	No. 9	3.7 mm (0.146 in.)
	No. A	3.8 mm (0.150 in.)

FORWARD CLUTCH		
Forward clutch drum bushing inside diameter	STD	26.037 – 26.062 mm (1.0251 – 1.0261 in.)
	Maximum	26.112 mm (1.028 in.)
Pack clearance		0.60 – 0.90 mm (0.0236 – 0.0354 in.)

Clutch piston return spring free length	STD	26.74 mm (1.053 in.)
Flange thickness	No. 0	3.0 mm (0.118 in.)
	No. 1	3.1 mm (0.122 in.)
	No. 2	3.2 mm (0.126 in.)
	No. 3	3.3 mm (0.130 in.)
	No. 4	3.4 mm (0.134 in.)
	No. 5	3.5 mm (0.138 in.)
	No. 6	3.6 mm (0.142 in.)
	No. 7	3.7 mm (0.146 in.)
	No. 8	3.8 mm (0.150 in.)
	No. 9	3.9 mm (0.154 in.)
	No. A	4.0 mm (0.158 in.)

OUTPUT SHAFT BEARING (A750E)		
Clearance		0.05 – 0.33 mm (0.002 – 0.013 in.)
Flange thickness	No. 1	3.7 mm (0.146 in.)
	No. 2	3.8 mm (0.150 in.)
	No. 3	3.9 mm (0.154 in.)
	No. 4	4.0 mm (0.158 in.)
	No. 5	4.1 mm (0.161 in.)
	No. 6	4.2 mm (0.165 in.)

ACCUMULATOR

Spring		Free length/Outer diameter mm (in.)	Color
B_3		70.5 (2.776) / 19.7 (0.776)	Purple
C_2		62.0 (2.441) / 15.9 (0.626)	White
C_1	inner	30.4 (1.197) / 11.4 (0.449)	Pink
	outer	48.76 (1.920) / 16.6 (0.654)	Light green
C_3	inner	44.0 (1.732) / 14.0 (0.551)	Yellow
	outer	73.35 (2.888) / 19.9 (0.784)	Red