

AUTOMATIC TRANSMISSION / TRANSAXLE

SERVICE DATA

0305K-17

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	0.03 to 0.05 mm (0.0012 to 0.0020 in.)
	Max	0.05 mm (0.0020 in.)
Drive gear thickness	Mark	
	0	10.736 to 10.742 mm (0.442268 to 0.42291 in.)
	1	10.743 to 10.749 mm (0.442296 to 0.42319 in.)
	2	10.750 to 10.756 mm (0.442323 to 0.42346 in.)
	3	10.757 to 10.763 mm (0.442350 to 0.42374 in.)
	4	10.764 to 10.770 mm (0.442378 to 0.42401 in.)
	5	10.771 to 10.777 mm (0.442405 to 0.42429 in.)
Driven gear thickness	Mark	
	0	10.736 to 10.742 mm (0.442268 to 0.42291 in.)
	1	10.743 to 10.749 mm (0.442296 to 0.42319 in.)
	2	10.750 to 10.756 mm (0.442323 to 0.42346 in.)
	3	10.757 to 10.763 mm (0.442350 to 0.42374 in.)
	4	10.764 to 10.770 mm (0.442378 to 0.42401 in.)
	5	10.771 to 10.777 mm (0.442405 to 0.42429 in.)
Pump body bushing inside diameter	Max	38.188 mm (1.50349 in.)
Stator shaft bushing inside diameter	Max (Front side)	21.577 mm (0.850 in.)
	Max. (Rear side)	32.08 mm (1.263 in.)
FRONT PLANETARY GEAR		
Planetary gear bushing inside diameter	Maximum	57.48 mm (2.263 in.)
Planetary pinion gear thrust clearance	STD	0.20 to 0.60 mm (0.008 to 0.024 in.)
	Maximum	0.65 mm (0.026 in.)
CENTER PLANETARY GEAR		
Planetary pinion gear thrust clearance	STD	0.12 to 0.68 mm (0.005 to 0.027 in.)
	Maximum	0.73 mm (0.029 in.)
RR PLANETARY RING GEAR FLANGE		
Planetary ring gear flange bushing inside diameter	Maximum	32.175 mm (1.267 in.)
COAST AND FORWARD CLUTCH		
Forward clutch hub inside diameter	STD	26.037 to 26.062 mm (1.0251 to 1.0261 in.)
	Max.	26.112 mm (1.028 in.)
Forward clutch return spring free length	STD	24.64 mm (0.9701 in.)
	Min.	13.67 mm (0.538 in.)
Pack clearance	Coast clutch	0.3 to 0.6 mm (0.012 to 0.024 in.)
	Forward clutch	0.56 to 0.86 mm (0.0220 to 0.339 in.)

Flange thickness (Coast clutch)	Mark	
	0	3.0 mm (0.118 in.)
	1	3.1 mm (0.122 in.)
	2	3.2 mm (0.126 in.)
	3	3.3 mm (0.130 in.)
	4	3.4 mm (0.134 in.)
	5	3.5 mm (0.138 in.)
	6	3.6 mm (0.142 in.)
	7	3.7 mm (0.146 in.)
	8	3.8 mm (0.150 in.)
	9	3.9 mm (0.154 in.)
Flange thickness (Coast clutch)	Mark	
	0	3.0 mm (0.118 in.)
	1	3.1 mm (0.122 in.)
	2	3.2 mm (0.126 in.)
	3	3.3 mm (0.130 in.)
	4	3.4 mm (0.134 in.)
	5	3.5 mm (0.138 in.)
	6	3.6 mm (0.142 in.)
	7	3.7 mm (0.146 in.)
	8	3.8 mm (0.150 in.)
	9	3.9 mm (0.154 in.)
	A	4.0 mm (0.158 in.)
DIRECT AND REVERSE CLUTCH		
Reverse clutch hub inside diameter	STD	35.812 to 35.837 mm (1.4099 to 1.4109 in.)
	Max.	35.887 mm (1.4129 in.)
Reverse clutch return spring free length	STD	21.04 mm (0.828 in.)
	Min.	11.76 mm (0.423 in.)
Direct clutch return spring free length	STD	19.51 mm (0.768 in.)
	Min.	11.42 mm (0.450 in.)
Pack clearance	Direct clutch	0.5 to 0.8 mm (0.020 to 0.031 in.)
	Reverse clutch	0.5 to 0.8 mm (0.020 to 0.031 in.)
Piston return spring free length (Direct clutch)		32.9 mm (1.2953 in.)
Flange thickness (Direct clutch)	Mark	
	0	3.0 mm (0.118 in.)
	1	3.1 mm (0.122 in.)
	2	3.2 mm (0.126 in.)
	3	3.3 mm (0.130 in.)
	4	3.4 mm (0.134 in.)
	5	3.5 mm (0.138 in.)
	6	3.6 mm (0.142 in.)
	7	3.7 mm (0.146 in.)
	8	3.8 mm (0.150 in.)
Flange thickness (Reverse clutch)	Mark	
	0	2.8 mm (0.110 in.)
	1	2.9 mm (0.114 in.)
	2	3.0 mm (0.118 in.)
	3	3.1 mm (0.122 in.)
	4	3.2 mm (0.126 in.)
	5	3.3 mm (0.130 in.)
	6	3.4 mm (0.134 in.)
	7	3.5 mm (0.138 in.)
	8	3.6 mm (0.142 in.)
	9	3.7 mm (0.146 in.)
	A	3.8 mm (0.150 in.)
NO.4 BRAKE		
Pack clearance		0.4 to 0.7 mm (0.016 to 0.028 in.)

Piston return spring free length	STD	23.74 mm (0.935 in.)
	Min.	14.42 mm (0.5677 in.)
Flange thickness	Mark	
	0	0 mm (0 in.)
	2	0.2 mm (0.00787 in.)
	4	0.4 mm (0.01575 in.)
	6	0.6 mm (0.02362 in.)
	8	0.8 mm (0.03150 in.)
	10	0.6 mm (0.03937 in.)
	12	0.6 mm (0.04724 in.)
	14	0.6 mm (0.05512 in.)

NO.2 BRAKE

Piston stroke		0.6 to 0.9 mm (0.024 to 0.035 in.)
Piston return spring free length	STD	22.66 mm (0.8921 in.)
	Min.	14.21 mm (0.5594 in.)
Flange thickness	Mark	
	0	2.0 mm (0.079 in.)
	1	2.1 mm (0.083 in.)
	2	2.2 mm (0.087 in.)
	3	2.3 mm (0.091 in.)
	4	2.4 mm (0.094 in.)
	5	2.5 mm (0.098 in.)
	6	2.6 mm (0.102 in.)
	7	2.7 mm (0.106 in.)

NO.1 BRAKE

Piston stroke		0.42 to 0.72 mm (0.017 to 0.028 in.)
Flange thickness	Mark	
	0	2.0 mm (0.079 in.)
	1	2.2 mm (0.087 in.)
	2	2.4 mm (0.094 in.)
	3	2.6 mm (0.102 in.)

INTERMEDIATE SHAFT

Intermediate shaft run out	Maximum	0.08 mm (0.003 in.)
Intermediate shaft diameter	STD A:	25.962 to 25.975 mm (1.022 to 1.023 in.)
	B:	25.962 to 25.975 mm (1.022 to 1.023 in.)
	C:	32.062 to 32.075 mm (1.262 to 1.263 in.)
	D:	32.062 to 32.075 mm (1.262 to 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.)

ACCUMULATOR

Spring		Free length/Outer diameter mm (in.)	Color
B ₁	Inner	44.98 (1.7709) / 11.30 (0.445)	Natural
	Outer	46.36 (1.8252) / 17.10 (0.6732)	Natural
C ₂		63.14 (2.4858) / 16.0 (0.6299)	Light Gray
B ₃		64.5 (2.539) / 19.5 (0.768)	Orange
C ₃	inner	44.0 (1.732) / 14.0 (0.551)	Yellow
	outer	76.65 (3.0178) / 20.10 (0.7913)	Natural

OUTPUT SHAFT BEARING		
Clearance		0.02 to 0.12 mm (0.0008 to 0.0047 in.)
Flange thickness	No. 1	3.80 mm (0.1496 in.)
	No. 2	3.85 mm (0.1516 in.)
	No. 3	3.90 mm (0.1555 in.)
	No. 4	3.95 mm (0.1575 in.)
	No. 5	4.00 mm (0.1575 in.)
	No. 6	4.05 mm (0.1594 in.)
	No. 7	4.10 mm (0.1614 in.)
	No. 8	4.15 mm (0.1634 in.)
	No. 9	4.20 mm (0.1653 in.)
	No. 10	4.25 mm (0.1673 in.)
	No. 11	4.30 mm (0.1693 in.)
	No. 12	4.35 mm (0.1713 in.)