AUTOMATIC TRANSMISSION / TRANSAXLE

0305W–02

SERVICE DATA

OIL PUMP		
Body clearance	STD	0.07 – 0.15 mm (0.0028 – 0.0059 in.)
	Maximum	0.2 mm (0.0079 in.)
Tip clearance	STD	0.004 – 0.248 mm (0.0002 – 0.0098 in.)
	Maximum	0.3 mm (0.012 in.)
Side clearance	STD	0.02 – 0.05 mm (0.0008 – 0.0020 in.)
	Maximum	0.1 mm (0.004 in.)
Drive and driven gear thickness (A340E A340F)	M	11.690 – 11.699 mm (0.4602 – 0.4606 in.)
	N	11.700 – 11.709 mm (0.4606 – 0.4610 in.)
	P	11.710 – 11.720 mm (0.4610 – 0.4614 in.)
	R	11.721 – 11.730 mm (0.4615 – 0.4618 in.)
	S	11.731 – 11.740 mm (0.4618 – 0.4622 in.)
Drive and driven gear thickness (A343F)	F	10.690 – 10.699 mm (0.4209 – 0.4212 in.)
	G	10.700 – 10.709 mm (0.4213 – 0.4216 in.)
	H	10.710 – 10.720 mm (0.4217 – 0.4220 in.)
	J	10.721 – 10.730 mm (0.4221 – 0.4224 in.)
	K	10.731 – 10.740 mm (0.4225 – 0.4228 in.)
Pump body bushing inside diameter	Maximum	38.19 mm (1.5035 in.)
Stator shaft bushing inside diameter	(Front side) Maximum	21.58 mm (0.8496 in.)
	(Rear side) Maximum	27.08 mm (1.0661 in.)

2ND COAST BRAKE	
Piston rod stroke	1.5 – 3.0 mm (0.059 – 0.118 in.)
Piston rod length	78.40 mm (3.087 in.) 79.90 mm (3.146 in.)

O/D BRAKE ASSY		
Piston return spring free length	STD	17.03 mm (0.671 in.)
Piston stroke (A340E A340F)		1.75 – 2.05 mm (0.0689 – 0.0807 in.)
Piston stroke (A343F)		1.40 – 1.70 mm (0.0551 – 0.0669 in.)
Flange thickness	No. 77	3.3 mm (0.130 in.)
	No. 78	3.5 mm (0.138 in.)
	No. 79	3.6 mm (0.142 in.)
	No. 80	3.7 mm (0.146 in.)
	No. 81	3.8 mm (0.150 in.)
	No. 82	3.9 mm (0.154 in.)
	No. 83	4.0 mm (0.157 in.)

O/D DIRECT CLUTCH		
Piston stroke		1.85 – 2.15 mm (0.0728 – 0.0846 in.)
Clutch return spring free length	STD	15.8 mm (0.622 in.)
Clutch drum bushing inside diameter	Maximum	27.11 mm (1.0673 in.)
O/D planetary gear bushing inside diameter	Maximum	11.27 mm (0.4437 in.)
Planetary pinion gear thrust clearance	STD	0.2 – 0.6 mm (0.0079 – 0.0236 in.)
	Maximum	0.65 mm (0.0256 in.)

Flange thickness	No. 01	3.1 mm (0.122 in.)
	No. 02	3.2 mm (0.126 in.)
	No. 03	3.3 mm (0.130 in.)
	No. 04	3.4 mm (0.134 in.)
	No. 05	3.5 mm (0.138 in.)
	No. 06	3.6 mm (0.142 in.)
	No. 07	3.7 mm (0.146 in.)
	No. 08	3.8 mm (0.151 in.)

DIRECT CLUTCH DRUM		
Pack clearance (A340E A340F)		0.40 – 0.70 mm (0.016 – 0.028 in.)
Piston stroke (A343F)		1.37 – 1.60 mm (0.0539 – 0.0630 in.)
Clutch piston return spring free length	STD	21.32 mm (0.839 in.)
Direct Clutch bushing inside diameter (A340E A340F)	Maximum	53.97 mm (2.1248 in.)
Direct Clutch bushing inside diameter (A343F)	Maximum	53.99 mm (2.1256 in.)
Flange thickness	No. 53	3.3 mm (0.130 in.)
	No. 54	3.4 mm (0.134 in.)
	No. 55	3.5 mm (0.138 in.)
	No. 56	3.6 mm (0.142 in.)
	No. 57	3.7 mm (0.146 in.)
	No. 58	3.8 mm (0.151 in.)
	No. 39	3.9 mm (0.154 in.)
	No. 40	4.0 mm (0.157 in.)
	No. 41	4.1 mm (0.161 in.)
	No. 42	4.2 mm (0.165 in.)

FORWARD CLUTCH		
Piston stroke		0.60 – 1.00 mm (0.024 – 0.039 in.)
Forward clutch drum bushing inside diameter	Maximum	24.08 mm (0.948 in.)
Flange thickness	No. 90	3.0 mm (0.118 in.)
	No. 91	3.2 mm (0.126 in.)
	No. 92	3.4 mm (0.134 in.)
	No. 93	3.6 mm (0.142 in.)
	No. 94	3.8 mm (0.150 in.)
	No. 95	4.0 mm (0.157 in.)
	No. 96	4.2 mm (0.165 in.)
	No. 97	4.4 mm (0.173 in.)

FRONT PLANETARY GEAR		
inside diameter (A340E A340F)	Maximum	24.65 mm (0.9705 in.)
inside diameter (A343F)	Maximum	24.08 mm (0.9480 in.)
Planetary pinion gear thrust clearance	STD	0.20 – 0.60 mm (0.0079 – 0.0236 in.)
	Maximum	0.65 mm (0.0256 in.)

PLANETARY SUN GEAR		
planetary sun gear bushing inside diameter	Maximum	27.08 mm (1.0661 in.)

SECOND BRAKE PISTON		
Pack clearance		0.62 – 1.98 mm (0.0244 – 0.0780 in.)
Piston return spring free length	STD	16.05 mm (0.6319 in.)

1ST & REVERSE BRAKE		
Piston return spring free length	STD	12.9 mm (0.508 in.)
Pack clearance (EXCEPT A343F × 3RZ–FE)		0.70 – 1.22 mm (0.0276 – 0.048 in.)

Pack clearance (A343F × 3RZ–FE)		0.60 – 1.12 mm (0.0236 – 0.0441 in.)
Flange thickness	No. 55	4.0 mm (0.157 in.)
	No. 54	4.2 mm (0.165 in.)
	No. 53	4.4 mm (0.173 in.)
	No. 52	4.6 mm (0.181 in.)
	No. 51	4.8 mm (0.189 in.)
	No. 50	5.0 mm (0.197 in.)
	No. 66	5.2 mm (0.205 in.)
	No. 67	5.4 mm (0.213 in.)

REAR PLANETARY GEAR		
Planetary pinion gear thrust clearance	STD	0.20 – 0.60 mm (0.0079 – 0.0236 in.)
	Maximum	0.65 mm (0.0256 in.)

TRANSMISSION CASE		
Transmission case bushing	Maximum	38.19 mm (1.5035 in.)

EXTENSION HOUSING		
Extension housing bushing	Maximum	40.02 mm (1.5756 in.)

OUTPUT SHAFT		
Output shaft thrust play	End play	0.30 – 1.04 mm (0.0118 – 0.0409 in.)

ACCUMULATOR

Spring		Free length/Outer diameter mm (in.)	Color
B_2 (A340E A340F)		70.50 (2.776) / 19.90 (0.784)	Light Gray
B_2 (A343F)		70.50 (2.776) / 19.70 (0.776)	Red
C_2	inner	42.10 (1.657) / 14.70 (0.579)	Pink
	outer	68.53 (2.698) / 20.20 (0.795)	Blue
B_0 (A340E A340F)		62.00 (2.441) / 16.00 (0.630)	Green
B_0 (A343F)		63.60 (2.504) / 16.00 (0.630)	Red
C_0 (A340E A340F)	inner	51.5 (2.028) / 14.02 (0.552)	Red
	outer	79.90 (3.146) / 20.09 (0.823)	Light Blue
C_0 (A343F)	inner	46.0 (1.811) / 14.02 (0.552)	Yellow
	outer	74.60 (2.937) / 20.90 (0.823)	Orange