

# AUTOMATIC TRANSMISSION

## SERVICE DATA

SS0EZ-02

2nd coast brake		
Piston rod stroke		2.0 – 3.0 mm (0.079 – 0.118 in.)
Piston rod length		70.7 mm (2.783 in.) 71.4 mm (2.811 in.) 72.2 mm (2.843 in.) 72.9 mm (2.870 in.)
O/D brake		
Piston stroke		1.75 – 2.05 mm (0.0689 – 0.0807 in.)
Flange thickness	No.26	3.3 mm (0.130 in.)
	No.25	3.5 mm (0.138 in.)
	No.12	3.6 mm (0.142 in.)
	No.24	3.7 mm (0.146 in.)
	No.11	3.8 mm (0.150 in.)
	No.23	3.9 mm (0.154 in.)
	None	4.0 mm (0.157 in.)
Forward clutch		
Piston stroke		0.70 – 1.00 mm (0.028 – 0.039 in.)
Clutch drum bushing inside diameter	Max.	24.08 mm (0.9480 in.)
Flange thickness	No.61	3.0 mm (0.118 in.)
	No.60	3.2 mm (0.126 in.)
	No.45	3.4 mm (0.134 in.)
	No.62	3.6 mm (0.142 in.)
	No.44	3.8 mm (0.150 in.)
	No.42	4.0 mm (0.157 in.)
2nd brake		
Pack clearance		0.62 – 1.98 mm (0.0244 – 0.0780 in.)
Rear planetary gear		
Planetary pinion gear thrust clearance	STD	0.2 – 0.6 mm (0.008 – 0.024 in.)
	Max.	1.0 mm (0.039 in.)
1st & reverse brake		
Pack clearance		0.7 – 1.0 mm (0.028 – 0.039 in.)
Piston return spring free length	STD	12.9 mm (0.508 in.)
Flange thickness	No.68	5.4 mm (0.213 in.)
	No.67	5.2 mm (0.205 in.)
	No.50	5.0 mm (0.197 in.)
	No.51	4.8 mm (0.189 in.)
	No.52	4.6 mm (0.181 in.)
	No.53	4.4 mm (0.173 in.)
	No.54	4.2 mm (0.165 in.)
	No.55	4.0 mm (0.157 in.)
Output shaft		
Output shaft thrust play		1.63 – 2.89 mm (0.0642 – 0.1138 in.)

## SERVICE SPECIFICATIONS - AUTOMATIC TRANSMISSION

Valve body spring			
Spring	Free length / Outer diameter mm (in.)	Total No. of coils & (Color)	
Upper valve body			
Lock-up relay valve	23.42 (0.922) / 5.86 (0.231)	12.25 (Red)	
Secondary regulator valve	32.79 (1.291) / 9.40 (0.370)	12.75 (Blue)	
C-1 Orifice control valve	37.13 (1.462) / 11.14 (0.439)	11.25 (White)	
C-1 Orifice control valve	21.50 (0.846) / 7.76 (0.306)	11.50 (None)	
C-1 Accumulator	75.26 (2.963) / 15.02 (0.591)	17.06 (Pink)	
2-3 Shift valve	30.77 (1.211) / 9.70 (0.382)	10.50 (Purple)	
3-4 Shift valve	30.77 (1.211) / 9.70 (0.382)	10.50 (Purple)	
Reverse control valve	25.58 (1.007) / 8.64 (0.340)	8.75 (None)	
Lower valve body			
Primary regulator valve	45.62 (1.796) / 16.88 (0.665)	9.50 (Blue)	
Lock-up control valve	18.52 (0.729) / 5.30 (0.209)	12.75 (White)	
Cut back valve	18.80 (0.740) / 7.48 (0.294)	7.50 (None)	
Solenoid relay valve	18.80 (0.740) / 7.48 (0.294)	7.50 (None)	
Solenoid modulator valve	32.13 (1.265) / 8.00 (0.315)	15.75 (Yellow)	
Cut off valve	20.30 (0.799) / 6.10 (0.240)	12.75 (None)	
Accumulator control valve	31.17 (1.227) / 8.85 (0.348)	12.50 (White)	
1-2 Shift valve	30.77 (1.211) / 9.70 (0.382)	10.50 (Purple)	
Coast modulator valve	21.83 (0.859) / 8.00 (0.315)	10.50 (Green)	
Coast modulator valve	25.38 (0.999) / 5.60 (0.220)	12.60 (None)	
Valve body retainer			
Retainer	Height mm (in.)	Width mm (in.)	Thickness mm (in.)
Upper valve body			
Check valve	10.0 (0.394)	5.0 (0.197)	3.2 (0.126)
Check valve	19.0 (0.748)	5.0 (0.197)	3.2 (0.126)
Reverse control valve	16.0 (0.630)	5.0 (0.197)	3.2 (0.126)
2-3 Shift valve	12.5 (0.492)	5.0 (0.197)	3.2 (0.126)
C-1 Accumulator	37.5 (1.476)	5.0 (0.197)	3.2 (0.126)
C-1 Orifice control valve	12.5 (0.492)	5.0 (0.197)	3.2 (0.126)
Secondary regulator valve	10.0 (0.394)	5.0 (0.197)	3.2 (0.126)
3-4 Shift valve	11.5 (0.453)	5.0 (0.197)	3.2 (0.126)
Lock-up relay valve	21.2 (0.835)	5.0 (0.197)	3.2 (0.126)
Lower valve body			
1-2 Shift valve	14.0 (0.551)	5.0 (0.197)	3.2 (0.126)
Coast modulator valve	14.0 (0.551)	5.0 (0.197)	3.2 (0.126)
Coast modulator valve	14.0 (0.551)	5.0 (0.197)	3.2 (0.126)
Primary regulator valve	13.0 (0.512)	5.0 (0.197)	3.2 (0.126)
Lock-up control valve	14.5 (0.571)	5.0 (0.197)	3.2 (0.126)
Cut back valve	8.5 (0.335)	5.0 (0.197)	3.2 (0.126)
Solenoid relay valve	12.5 (0.492)	5.0 (0.197)	3.2 (0.126)
Solenoid modulator valve	14.5 (0.571)	5.0 (0.197)	3.2 (0.126)

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Cut off valve	19.0 (0.748)	5.0 (0.197)	3.2 (0.126)
Accumulator control valve	29.0 (1.142)	5.0 (0.197)	3.2 (0.126)
Upper valve body check ball			
Check ball	Diameter mm (in.)		
Rubber ball	6.35 (0.250)		
Rubber ball	5.54 (0.218)		
Accumulator spring			
Spring	Free length / Outer diameter mm (in.)		Color
B <sub>2</sub>	75.25 (2.963) / 19.97 (0.786)		White & Red
C <sub>2</sub>	Inner	40.00 (1.575) / 14.11 (0.556)	White & Dark blue
	Outer	77.51 (3.052) / 20.10 (0.791)	Light blue
B <sub>0</sub>	66.97 (2.637) / 16.24 (0.639)		White & Blue
C <sub>0</sub>	Outer	63.35 (2.494) / 20.59 (0.811)	White & Orange
	Inner	38.42 (1.513) / 14.03 (0.552)	White