

SERVICE SPECIFICATIONS**SERVICE DATE****Oil Pump**

Body clearance	STD	0.07 – 0.15 mm	0.0028 – 0.0059 in.
	Maximum	0.3 mm	0.012 in.
Tip clearance	STD	0.11 – 0.14 mm	0.0043 – 0.0055 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.
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	23.10 mm	0.9094 in.

Overdrive Direct Clutch

Clutch drum bushing inside diameter	Maximum	23.14 mm	0.9110 in.
Overdrive direct clutch piston stroke		1.77 – 2.58 mm	0.0697 – 0.1016 in.
Overdrive planetary gear bushing	Maximum	11.27 mm	0.4437 in.
Planetary pinion gear thrust clearance	STD	0.20 – 0.50 mm	0.0079 – 0.0197 in.

Overdrive Brake

Pack clearance		0.35 – 1.91 mm	0.0138 – 0.0752 in.
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Front Clutch

Piston stroke		1.40 – 2.48 mm	0.0551 – 0.0976 in.
Flange thickness		1.8 mm	0.071 in.
		2.0 mm	0.079 in.

Rear Clutch

Piston stroke		0.90 – 1.75 mm	0.0354 – 0.0689 in.
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No.1 Brake

Piston stroke		0.80 – 1.73 mm	0.0315 – 0.0681 in.
Center support bushing inside diameter	Maximum	36.46 mm	1.4354 in.

No.2 Brake

Piston stroke		1.01 – 2.25 mm	0.0398 – 0.0886 in.
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Planetary Sun Gear

Maximum inside diameter		21.58 mm	0.8496 in.
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Front Planetary Gear

Planetary pinion gear thrust clearance		0.20 – 0.50 mm	0.0079 – 0.0197 in.
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Rear Planetary Gear

Planetary pinion gear thrust clearance	0.20 — 0.50 mm	0.0079 — 0.0197 in.
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No.3 Brake

Pack clearance	0.61 — 2.64 mm	0.0240 — 0.1039 in.
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Valve Body Spring

Spring	Free length and Coil outer diameter mm (in.)		Total No. of coils and Color	
Front upper valve body				
Secondary regulator valve	71.3 (2.807)	17.4 (0.685)	17.0	Green
Down shift plug	39.6 (1.560)	10.9 (0.429)	11.4	Green
Throttle valve	21.9 (0.862)	8.6 (0.339)	10.0	None
Cut—back valve	23.0 (0.906)	6.9 (0.272)	12.5	Green
Rear upper valve body				
2—3 shift valve	29.2 (1.150)	8.9 (0.350)	12.0	Blue
3—4 shift valve	29.2 (1.150)	8.9 (0.350)	12.0	Blue
1—2 shift valve	29.2 (1.150)	8.9 (0.350)	12.0	Blue
Reverse clutch sequence valve	37.6 (1.480)	9.2 (0.362)	16.5	None
Lower valve body				
Low coast modulator valve	42.4 (1.669)	9.2 (0.362)	17.0	None
Check ball (Cooler return)	13.7 (0.539)	10.5 (0.413)	10.0	None
Cooler by—pass valve	28.0 (1.102)	13.6 (0.535)	8.0	Blue
Check ball (Damping check ball)	20.0 (0.787)	5.0 (0.196)	18.0	None
Intermediate modulator valve	35.4 (1.394)	8.8 (0.346)	16.4	Red
Lock—up relay valve	32.6 (1.283)	11.4 (0.449)	10.3	Green
Pressure relief valve	32.1 (1.264)	13.1 (0.516)	11.0	None
Primary regulator valve	50.3 (1.980)	17.0 (0.669)	12.5	Blue

Valve Body Key

Retainer	Height mm (in.)	Width mm (in.)	Thickness mm (in.)
Front upper valve body			
Cut—back valve	19.0 (0.748)	5.0 (0.197)	3.2 (0.126)
Rear upper valve body			
2—3 shift valve	10.0 (0.394)	5.0 (0.197)	3.2 (0.126)
3—4 shift valve	10.0 (0.394)	5.0 (0.197)	3.2 (0.126)
Lower valve body			
Primary regulator valve	17.5 (0.689)	14.0 (0.551)	3.2 (0.126)

Transmission Case

Transmission case bushing	Maximum	38.19 mm	1.5035 in.
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Output Shaft

End play		0.3 – 0.9 mm	0.012 – 0.035 in.
Output shaft bushing	Maximum	18.08 mm	0.7118 in.

Accumulator Spring

Spring	Free length / Outer diameter mm (in.)	Color
C ₁	64.4 (2.535) / 17.5 (0.689)	None
C ₂	57.4 (2.260) / 15.9 (0.626)	None
B ₂	32.0 (1.260) / 15.4 (0.606)	Yellow

A7060-08

TORQUE SPECIFICATION

Part tightened	N·m	kgf·cm	ft·lbf
Stator shaft x Oil pump body	7.4	75	65 in·lbf
Lower valve body x Front upper valve body	5.4	55	48 in·lbf
Lower valve body x Rear upper valve body	5.4	55	48 in·lbf
Center support x Transmission case	25	260	19
Transmission housing x Transmission case	10 mm bolt	34	25
	12 mm bolt	57	42
Oil pump x Transmission case	21	215	16
Parking lock pawl bracket	7.4	75	65 in·lbf
Valve body x Transmission case	10	100	7
Oil strainer x Valve body	5.4	55	48 in·lbf
Oil pan x Transmission case	4.4	45	39 in·lbf
Governor body lock plate	3.9	40	35 in·lbf
Transfer adapter x Transmission case	34	345	25
Transfer adapter x Transfer	45	455	33
Elbow	34	350	25
A/T oil temperature sensor x Front elbow	34	350	25
Park/Neutral position switch	3.9	40	35 in·lbf
Park/Neutral position switch adjusting bolt	5.4	55	48 in·lbf

