

Manual Transmission — Section 13

	MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Transmission oil	Capacity ℓ (US qt) Use Honda MTF	Overhaul Oil charge	2.90 (3.06) 2.65 (2.80)	
Mainshaft	Diameter of ball bearing contact area (transmission housing side) Diameter of needle bearing contact area Diameter of ball bearing contact area (clutch housing side) Runout End play		30.984 – 31.000 (1.2198 – 1.2205) 41.984 – 42.000 (1.6529 – 1.6535) 32.002 – 32.018 (1.260 – 1.261) 0.02 (0.001) max. 0.14 – 0.21 (0.006 – 0.008)	30.93 (1.2177) 41.93 (1.6508) 31.95 (1.2579) 0.05 (0.002) Adjust with a shim.
Mainshaft 3rd gear	I.D. End play Thickness		47.009 – 47.025 (1.8507 – 1.8514) 0.06 – 0.19 (0.002 – 0.007) 30.39 – 30.47 (1.196 – 1.200)	47.08 (1.8535) 0.3 (0.012) 30.30 (1.193)
Mainshaft 4th gear	I.D. End play Thickness		47.009 – 47.025 (1.8507 – 1.8514) 0.06 – 0.19 (0.002 – 0.007) 26.39 – 26.47 (1.039 – 1.042)	47.08 (1.8535) 0.3 (0.012) 26.30 (1.035)
Mainshaft 5th gear	I.D. End play Thickness		47.009 – 47.025 (1.8507 – 1.8514) 0.06 – 0.19 (0.002 – 0.007) 26.39 – 26.47 (1.039 – 1.042)	47.08 (1.8535) 0.3 (0.012) 26.30 (1.035)
Mainshaft 6th gear	I.D. End play Thickness		47.009 – 47.025 (1.8507 – 1.8514) 0.06 – 0.19 (0.002 – 0.007) 21.89 – 21.97 (0.862 – 0.865)	47.08 (1.8535) 0.3 (0.012) 21.80 (0.858)
Spacer collar (Mainshaft)	I.D. O.D. Length	4th gear side 5th gear side 4th gear side 5th gear side	36.002 – 36.012 (1.417 – 1.418) 41.989 – 42.000 (1.653 – 1.654) 41.989 – 42.000 (1.653 – 1.654) 26.53 – 26.58 (1.044 – 1.046) 26.53 – 26.58 (1.044 – 1.046)	36.06 (1.420) 41.94 (1.651) 41.94 (1.651) 26.51 (1.044) 26.51 (1.044)
Distance collar (Mainshaft)	I.D. O.D. Length	6th gear side	35.947 – 35.957 (1.4152 – 1.4156) 41.989 – 42.000 (1.6531 – 1.6535) 22.03 – 22.08 (0.867 – 0.869)	36.00 (1.417) 41.94 (1.651) 22.01 (0.867)
Countershaft	Diameter of needle bearing contact area (clutch housing side) Diameter of needle and ball bearing contact area (transmission housing side) Runout		43.974 – 43.990 (1.7313 – 1.7319) 33.984 – 34.000 (1.3380 – 1.3386) 0.02 (0.001) max.	43.92 (1.7291) 33.93 (1.3358) 0.05 (0.002)
Countershaft 1st gear	I.D. End play (when tightened by the specified torque)		57.010 – 57.029 (2.244 – 2.245) 0.04 – 0.10 (0.002 – 0.004)	57.08 (2.247) Adjust with a washer.
Countershaft 2nd gear	I.D. End play (when tightened by the specified torque)		57.010 – 57.029 (2.244 – 2.245) 0.04 – 0.10 (0.002 – 0.004)	57.08 (2.247) Adjust with a collar.
Countershaft reverse gear	Diameter of needle bearing contact area		51.987 – 52.000 (2.0467 – 2.0472)	51.93 (2.044)
Spacer collar (Countershaft)	I.D. O.D.		43.046 – 43.056 (1.6947 – 1.6951) 51.987 – 52.000 (2.0467 – 2.0472)	43.10 (1.697) 51.94 (2.045)
Reverse idler gear shaft	O.D.		19.989 – 20.000 (0.7870 – 0.7874)	19.93 (0.785)
Reverse driven gear and reverse drive gear	I.D.		25.007 – 25.020 (0.9845 – 0.9850)	25.07 (0.987)

(cont'd)

Standards and Service Limits

Manual Transmission (cont'd) — Section 13

	MEASUREMENT	STANDARD (NEW)	SERVICE LIMIT
Oil pump	Driven gear boss-to-transmission housing clearance	0.3 – 0.8 (0.012 – 0.031)	0.9 (0.035)
	Driven gear thickness	17.0 – 17.1 (0.669 – 0.673)	16.9 (0.665)
	Inner-to-outer rotor radial clearance	0.14 (0.006) max.	0.20 (0.008)
	Pump body-to-outer rotor radial clearance	0.1 – 0.2 (0.004 – 0.008)	0.22 (0.009)
	Pump body-to-outer rotor side clearance	0.03 – 0.13 (0.001 – 0.005)	0.15 (0.006)
Synchro ring	Ring-to-gear clearance (ring pushed against gear)	0.85 – 1.10 (0.033 – 0.043)	0.4 (0.016)
Dual cone synchro ring	Clearance (ring pushed against gear)		
	Outer synchro ring-to-gear	0.95 – 1.68 (0.037 – 0.066)	0.6 (0.024)
	Synchro cone-to-gear	0.5 – 1.0 (0.020 – 0.039)	0.3 (0.012)
	Outer synchro ring-to-synchro cone	0.5 – 1.0 (0.020 – 0.039)	0.3 (0.012)
Shift fork	Finger thickness	1st/2nd shift fork	8.9 – 9.0 (0.350 – 0.354)
		3rd/4th shift fork	7.4 – 7.5 (0.291 – 0.295)
		5th/6th shift fork	7.4 – 7.5 (0.291 – 0.295)
		Reverse shift fork	6.4 – 6.5 (0.252 – 0.256)
	Finger-to-synchro sleeve clearance	0.45 – 0.65 (0.018 – 0.026)	1.0 (0.039)
Reverse shift arm	Arm-to-reverse shift piece clearance	0.05 – 0.30 (0.002 – 0.012)	0.5 (0.02)
	Groove width	7.05 – 7.20 (0.278 – 0.283)	_____
	Arm-to-reverse shift fork clearance	0.05 – 0.35 (0.002 – 0.014)	0.5 (0.02)
	Diameter (At the contact point with the reverse shift fork)	12.8 – 13.0 (0.504 – 0.512)	_____
Shift arm	Arm-to-shift piece clearance	0.05 – 0.25 (0.002 – 0.010)	0.5 (0.02)
	Diameter (at the contact point with the shift piece)	12.9 – 13.0 (0.508 – 0.512)	_____
Interlock	Interlock-to-select arm clearance	0.03 – 0.15 (0.001 – 0.006)	_____
	Diameter (at the contact point with the select arm)	11.95 – 12.00 (0.470 – 0.472)	_____
Shift piece	Shift piece-to-shift forks, 5th/6th shift piece and reverse shift piece clearance	0.2 – 0.5 (0.008 – 0.020)	0.6 (0.024)
	Diameter (at the contact point with the shift forks, 5th/6th shift piece and reverse shift piece)	11.9 – 12.0 (0.469 – 0.472)	_____