

## GENERAL INFORMATION

# TRANSMISSION/GEARSHIFT LINKAGE SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Shift fork	I.D.	12.000 – 12.018 (0.4724 – 0.4731)	12.03 (0.474)
	Claw thickness	5.93 – 6.00 (0.233 – 0.236)	5.9 (0.23)
Shift fork shaft O.D.		11.957 – 11.968 (0.4707 – 0.4712)	11.95 (0.470)
Transmission	Gear I.D.	M5, M6	31.000 – 31.025 (1.2205 – 1.2215)
		C1	28.000 – 28.021 (1.1024 – 1.1032)
		C2, C3, C4	33.000 – 33.025 (1.2992 – 1.3002)
	Gear busing O.D.	M5, M6	30.955 – 30.980 (1.2187 – 1.2197)
		C2	32.955 – 32.980 (1.2974 – 1.2984)
		C3, C4	32.950 – 32.975 (1.2972 – 1.2982)
	Gear-to-bushing clearance	M5, M6	0.020 – 0.070 (0.0008 – 0.0028)
		C2	0.020 – 0.070 (0.0008 – 0.0028)
		C3, C4	0.025 – 0.075 (0.0010 – 0.0030)
	Gear bushing I.D.	M5	27.985 – 28.006 (1.1018 – 1.1026)
		C2	29.985 – 30.006 (1.1018 – 1.1026)
	Mainshaft O.D.	at M5	27.967 – 27.980 (1.1011 – 1.1016)
	Countershaft O.D.	at C2	29.967 – 29.980 (1.1798 – 1.1803)
Bushing to shaft clearance	M5	0.005 – 0.039 (0.0002 – 0.0015)	
	C2	0.005 – 0.039 (0.0002 – 0.0015)	

# CRANKCASE/CRANKSHAFT/BALANCER/PISTON/CYLINDER SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT	
Crankshaft	Connecting rod side clearance	0.05 – 0.20 (0.002 – 0.008)	0.25 (0.098)	
	Crankpin bearing oil clearance	0.030 – 0.052 (0.0012 – 0.0020)	0.06 (0.002)	
	Main journal bearing oil clearance	0.019 – 0.037 (0.0007 – 0.0015)	0.05 (0.002)	
	Runout	–	0.05 (0.002)	
Piston, piston rings	Piston O.D. at 4.0 (0.16) from bottom	74.960 – 74.980 (2.9512 – 2.9520)	74.895 (2.9486)	
	Piston pin bore I.D.	17.002 – 17.008 (0.6694 – 0.6696)	17.030 (0.6705)	
	Piston pin O.D.	16.994 – 17.000 (0.6690 – 0.6693)	16.980 (0.6685)	
	Piston-to-piston pin clearance	0.002 – 0.014 (0.0001 – 0.0006)	0.04 (0.002)	
	Piston ring end gap	Top	0.22 – 0.32 (0.009 – 0.013)	0.52 (0.020)
		Second	0.48 – 0.63 (0.019 – 0.025)	0.82 (0.032)
		Oil (side rail)	0.2 – 0.7 (0.01 – 0.03)	1.0 (0.04)
Piston ring-to-ring groove clearance	Top	0.050 – 0.085 (0.0020 – 0.0033)	0.125 (0.0049)	
	Second	0.015 – 0.050 (0.0006 – 0.0020)	0.075 (0.0030)	
Cylinder	I.D.	75.000 – 75.015 (2.9528 – 2.9533)	75.15 (2.959)	
	Out of round	–	0.10 (0.004)	
	Taper	–	0.10 (0.004)	
	Warpage	–	0.10 (0.004)	
Cylinder-to-piston clearance		0.020 – 0.055 (0.0008 – 0.0022)	0.10 (0.004)	
Connecting rod small end I.D.		17.030 – 17.042 (0.6705 – 0.6709)	17.048 (0.6712)	
Connecting rod-to-piston pin clearance		0.030 – 0.046 (0.0012 – 0.0018)	0.07 (0.003)	