

SERVICE INFORMATION

GENERAL

- The crankcase must be separated to service the following:
 - Transmission
 - Crankshaft (page 13-5)
 - Piston/connecting rod/cylinder (page 13-13)
- The following components must be removed before separating the crankcase:
 - Engine (page 8-5)
 - Clutch (page 10-7)/gearshift linkage (page 10-22)
 - Starter clutch (page 10-17)
 - Flywheel (page 11-5)
 - Cylinder head (page 9-13)
 - Oil pan (page 5-6), oil pump (page 5-8) and oil cooler (page 5-12)
 - Starter motor (page 19-6)
 - Water pump (page 7-15)
- Be careful not to damage the crankcase mating surfaces when servicing.
- Prior to assembling the crankcase halves, apply sealant to their mating surfaces. Wipe off excess sealant thoroughly.

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	28.000 – 28.021 (1.1024 – 1.1032)
		C1	24.000 – 24.021 (0.9449 – 0.9457)
		C2, C3, C4	31.000 – 31.025 (1.2205 – 1.2215)
	Gear busing O.D.	M5, M6	27.959 – 27.980 (1.1007 – 1.1016)
		C2	30.955 – 30.980 (1.2187 – 1.2197)
		C3, C4	30.950 – 30.975 (1.2185 – 1.2195)
	Gear-to-bushing clearance	M5, M6	0.020 – 0.062 (0.0008 – 0.0024)
		C2	0.020 – 0.070 (0.0008 – 0.0028)
		C3, C4	0.025 – 0.075 (0.0010 – 0.0030)
	Gear bushing I.D.	M5	24.985 – 25.006 (0.9837 – 0.9845)
		C2	27.985 – 28.006 (1.1018 – 1.1026)
	Mainshaft O.D.	at M5	24.967 – 24.980 (0.9830 – 0.9835)
	Countershaft O.D.	at C2	27.967 – 27.980 (1.1011 – 1.1016)
	Bushing to shaft clearance	M5	0.005 – 0.039 (0.0002 – 0.0015)
C2		0.005 – 0.039 (0.0002 – 0.0015)	

TORQUE VALUES

Mainshaft bearing set plate bolt	12 N·m (1.2 kgf·m, 9 lbf·ft)	Apply a locking agent to the threads
Gearshift drum bearing set bolt	12 N·m (1.2 kgf·m, 9 lbf·ft)	
Lower crankcase sealing bolt	28 N·m (2.8 kgf·m, 20 lbf·ft)	See page 12-16: replace with a new one
Crankcase 6 mm bolt	12 N·m (1.2 kgf·m, 9 lbf·ft)	
8 mm bolt	25 N·m (2.5 kgf·m, 18 lbf·ft)	
8 mm bolt (main journal bolt)	15 N·m (1.5 kgf·m, 10 lbf·ft) + 120°	
10 mm bolt	39 N·m (4.0 kgf·m, 29 lbf·ft)	
Neutral switch	12 N·m (1.2 kgf·m, 9 lbf·ft)	