

13. TRANSMISSION

SERVICE INFORMATION	13-1	TRANSMISSION INSPECTION	13-4
TROUBLESHOOTING	13-2	TRANSMISSION ASSEMBLY/ INSTALLATION	13-6
TRANSMISSION REMOVAL/ DISASSEMBLY	13-3		

SERVICE INFORMATION

GENERAL

- The crankcase must be separated to service the transmission.

SPECIFICATIONS

ITEM			STANDARD	SERVICE LIMIT
Unit: mm (in)				
Transmission	Gear I.D.	M4, M5, C2	28.000–28.021 (1.1024–1.1032)	28.04 (1.104)
		C1	23.000–23.021 (0.9055–0.9063)	23.04 (0.907)
		C3	31.000–31.025 (1.2205–1.2215)	31.05 (1.222)
	Bushing O.D.	M4, M5	27.959–27.980 (1.1007–1.1016)	27.93 (1.100)
		C1	22.959–22.979 (0.9039–0.9047)	22.93 (0.903)
		C2	27.959–27.980 (1.1007–1.1016)	27.93 (1.100)
		C3	30.950–30.975 (1.2185–1.2195)	30.92 (1.217)
	Bushing I.D.	M4	24.985–25.006 (0.9837–0.9845)	25.02 (0.985)
		C1	20.000–20.021 (0.7874–0.7882)	20.04 (0.789)
		C2	25.000–25.021 (0.9843–0.9851)	25.04 (0.986)
		C3	27.995–28.016 (1.1022–1.1030)	28.04 (1.104)
	Gear-to-bushing clearance	M4, M5, C2	0.020–0.062 (0.0008–0.0024)	0.10 (0.004)
		C1	0.021–0.062 (0.0008–0.0024)	0.10 (0.004)
		C3	0.025–0.075 (0.0010–0.0030)	0.13 (0.005)
	Mainshaft O.D.	M4	24.967–24.980 (0.9830–0.9835)	24.94 (0.982)
		Clutch outer guide	21.967–21.980 (0.8648–0.8654)	21.94 (0.864)
	Countershaft O.D.	C1	19.980–19.993 (0.7866–0.7871)	19.94 (0.785)
		C2	24.972–24.993 (0.9831–0.9840)	24.95 (0.982)
		C3	27.959–27.980 (1.1007–1.1016)	27.93 (1.100)
		Starter idle gear	19.980–19.993 (0.7866–0.7871)	19.94 (0.785)
	Bushing-to-shaft clearance	M4	0.005–0.039 (0.0002–0.0015)	0.06 (0.002)
		C1	0.007–0.041 (0.0003–0.0016)	0.06 (0.002)
		C2	0.007–0.049 (0.0003–0.0019)	0.06 (0.002)
		C3	0.015–0.057 (0.0006–0.0022)	0.06 (0.002)
Shift fork, Shift fork shaft	Shift fork	I.D.	14.000–14.021 (0.5512–0.5520)	14.03 (0.552)
		Operation area thickness	5.93–6.00 (0.233–0.236)	5.9 (0.23)
	Shift fork shaft O.D.		13.957–13.968 (0.5495–0.5499)	13.95 (0.549)
Shift drum	O.D. at right crankcase bearing side		19.959–19.980 (0.7858–0.7866)	19.93 (0.785)
	O.D. at left side journal side		11.966–11.984 (0.4711–0.4718)	11.95 (0.470)