

10. CLUTCH/KICKSTARTER/GEARSHIFT LINKAGE

SERVICE INFORMATION	10-1	PRIMARY DRIVE GEAR	10-13
TROUBLESHOOTING	10-2	KICKSTARTER	10-15
CLUTCH	10-3	GEARSHIFT CAM	10-20
RIGHT CRANKCASE COVER REMOVAL	10-11	RIGHT CRANKCASE COVER INSTALLATION	10-20

SERVICE INFORMATION

GENERAL

- This section covers service of the clutch, kickstarter, gearshift linkage, shift drum and shift forks. All service can be done with the engine installed in the frame.
- When the existing clutch discs are replaced, coat the new discs with engine oil prior to assembly.

SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT	
Clutch	Clutch lever free play	10 – 20 (0.4 – 0.8)	—	
	Spring free length	49.0 (1.93)	46.0 (1.81)	
	Disc thickness	A (6 discs)	3.22 – 3.38 (0.127 – 0.133)	3.00 (0.118)
		B (1 disc)	2.92 – 3.08 (0.115 – 0.121)	2.69 (0.106)
	Plate warpage	—	0.30 (0.012)	
	Clutch outer I.D.	29.000 – 29.021 (1.1417 – 1.1426)	29.05 (1.144)	
	Outer guide	I.D.	21.990 – 22.035 (0.8657 – 0.8675)	22.05 (0.868)
		O.D.	28.959 – 28.980 (1.1401 – 1.1409)	28.91 (1.138)
	Mainshaft O.D. at clutch outer guide	21.967 – 21.980 (0.8648 – 0.8654)	21.94 (0.864)	
Kickstarter	Starter idle gear I.D.	23.000 – 23.021 (0.9055 – 0.9063)	23.11 (0.910)	
	Starter idle gear bushing	I.D.	20.013 – 20.031 (0.7879 – 0.7886)	20.05 (0.789)
		O.D.	22.959 – 22.980 (0.9039 – 0.9047)	22.90 (0.902)
	Kickstarter pinion gear I.D.	22.020 – 22.041 (0.8669 – 0.8678)	22.09 (0.870)	
	Kickstarter spindle O.D.	21.959 – 21.980 (0.8645 – 0.8654)	21.91 (0.863)	
	Countershaft O.D. at starter idle gear	19.980 – 19.993 (0.7866 – 0.7871)	19.94 (0.785)	

10

TORQUE VALUES

Clutch spring bolt	12 N·m (1.2 kgf·m , 9 lbf·ft)	
Clutch center lock nut	118 N·m (12.0 kgf·m , 87 lbf·ft)	Apply oil to the threads and seating surface
Primary drive gear lock nut	118 N·m (12.0 kgf·m , 87 lbf·ft)	Stake
Clutch cover bolt	12 N·m (1.2 kgf·m , 9 lbf·ft)	Apply oil to the threads and seating surface
Right crankcase cover bolt	12 N·m (1.2 kgf·m , 9 lbf·ft)	
Brake pedal pivot bolt	25 N·m (2.6 kgf·m , 19 lbf·ft)	
Gearshift cam stopper arm pivot bolt	12 N·m (1.2 kgf·m , 9 lbf·ft)	
Gearshift cam bolt	12 N·m (1.2 kgf·m , 9 lbf·ft)	Apply locking agent to the threads
Right footpeg mounting bolt	54 N·m (5.5 kgf·m , 40 lbf·ft)	
Kickstarter pedal bolt	37 N·m (3.8 kgf·m , 27 lbf·ft)	