

# 9. CLUTCH/GEARSHIFT LINKAGE

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## SERVICE INFORMATION

### GENERAL

- This section covers service of the clutch, gearshift linkage, shift drum and shift forks. All service can be done with the engine installed in the frame.
- Transmission oil viscosity and level have an effect on clutch disengagement. When the clutch does not disengage or the motorcycle creeps with clutch disengaged, inspect the transmission oil level before servicing the clutch system.

### SPECIFICATIONS

Unit: mm (in)

ITEM			STANDARD	SERVICE LIMIT
Clutch lever free play			10 – 20 (3/8 – 13/16)	
Clutch spring free length			57.4 (2.26)	56.2 (2.21)
Clutch disc thickness	Blue color		3.72 – 3.88 (0.146 – 0.153)	3.5 (0.14)
	Brown color		3.72 – 3.88 (0.146 – 0.153)	3.5 (0.14)
Clutch plate warpage				0.30 (0.012)
Clutch outer guide	I.D.		28.000 – 28.021 (1.1024 – 1.1032)	28.031 (1.1036)
	O.D.		34.975 – 34.991 (1.3770 – 1.3776)	34.965 (1.3766)
Mainshaft O.D. at clutch outer guide			27.980 – 27.993 (1.1016 – 1.1021)	27.970 (1.1012)
Shift fork, fork shaft	Fork	I.D.	12.000 – 12.021 (0.4724 – 0.4733)	12.03 (0.474)
		Claw thickness		5.93 – 6.00 (0.233 – 0.236)
	Fork shaft O.D.		11.957 – 11.968 (0.4707 – 0.4712)	11.95 (0.470)

### TORQUE VALUES

Clutch center lock nut	127 N·m (13.0 kgf·m , 94 lbf·ft)	Apply oil to the threads Stake the nut
Clutch spring bolt/washer	12 N·m (1.2 kgf·m , 9 lbf·ft)	
Right crankcase cover SH bolt	12 N·m (1.2 kgf·m , 9 lbf·ft)	
Right crankcase cover center bolt	12 N·m (1.2 kgf·m , 9 lbf·ft)	
Shift drum center socket bolt	23 N·m (2.3 kgf·m , 17 lbf·ft)	Apply a locking agent to the threads
Shift drum stopper pivot bolt	12 N·m (1.2 kgf·m , 9 lbf·ft)	
Gearshift return spring pin	23 N·m (2.3 kgf·m , 17 lbf·ft)	
Gearshift drum bearing set plate flange bolt	12 N·m (1.2 kgf·m , 9 lbf·ft)	Apply a locking agent to the threads
Gearshift pedal bolt	10 N·m (1.0 kgf·m , 7 lbf·ft)	
Oil pump driven sprocket bolt	15 N·m (1.5 kgf·m , 11 lbf·ft)	Apply a locking agent to the threads