

9. CLUTCH/GEARSHIFT LINKAGE

SERVICE INFORMATION	9-1	CLUTCH	9-4
TROUBLESHOOTING	9-2	GEARSHIFT LINKAGE	9-12
RIGHT CRANKCASE COVER REMOVAL	9-3	SHIFT FORK/SHIFT DRUM	9-13
LIFTER LEVER	9-4	RIGHT CRANKCASE COVER INSTALLATION	9-14

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	48.8 (1.92)	47.5 (1.87)
	Disc thickness	2.92 – 3.08 (0.115 – 0.121)	2.6 (0.10)
	Plate warpage	—	0.30 (0.012)
Clutch outer guide	I.D.	24.994 – 25.004 (0.9840 – 0.9844)	25.01 (0.985)
	O.D.	34.975 – 34.991 (1.3770 – 1.3776)	34.97 (1.377)
Mainshaft O.D. at clutch outer guide		24.980 – 24.993 (0.9835 – 0.9840)	24.96 (0.983)

TORQUE VALUES

Clutch center lock nut	128 N•m (13.1 kgf•m, 95 lbf•ft)	Apply oil to the threads Stake the nut
Clutch spring bolt/washer	12 N•m (1.2 kgf•m, 9 lbf•ft)	
Oil pump driven sprocket bolt	15 N•m (1.5 kgf•m, 11 lbf•ft)	Apply a locking agent to the threads
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 arm pivot bolt	12 N•m (1.2 kgf•m, 9 lbf•ft)	
Gearshift spindle return spring pin	22 N•m (2.2 kgf•m, 16 lbf•ft)	

TOOLS

Clutch center holder	07724-0050002	Equivalent commercially available
Driver	07749-0010000	
Attachment, 32 X 35 mm	07746-0010100	
Attachment, 37 X 40 mm	07746-0010200	
Pilot, 17 mm	07746-0040400	
Pilot, 35 mm	07746-0040800	