

## CLUTCH/GEARSHIFT LINKAGE

### SERVICE INFORMATION

#### GENERAL

- The clutch system can be serviced with the engine in the frame.
- DOT 4 brake fluid is used for the hydraulic clutch and is referred to as clutch fluid in this section. Do not use other types of fluid as they are not compatible.
- Spilled clutch (brake) fluid will severely damage the plastic parts and painted surfaces. It is also harmful to some rubber parts. Be careful whenever you remove the reservoir cap; make sure the reservoir is horizontal first.
- Never allow contaminants (dirt, water, etc.) to get into an open reservoir.
- Once the hydraulic system has been opened, the system must be bled.
- Always use fresh DOT 4 brake fluid from a sealed container when servicing the system. Do not mix different types of fluid as they may not be compatible.
- Engine oil viscosity and level and the use of oil additives have an effect on clutch disengagement. Oil additives of any kind are specifically not recommended. When the clutch does not disengage or the motorcycle creeps with the clutch disengaged, inspect the engine oil viscosity and level before servicing the clutch system.

#### SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Specified clutch fluid		DOT 4 brake fluid	—
Clutch master cylinder	Cylinder I.D.	14.000 – 14.043 (0.5512 – 0.5529)	14.055 (0.5533)
	Piston O.D.	13.957 – 13.984 (0.5495 – 0.5506)	13.945 (0.5490)
Clutch	Spring free length	49.6 (1.95)	46.6 (1.83)
	Disc thickness	3.72 – 3.88 (0.146 – 0.153)	3.5 (0.14)
	Plate warp	—	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)

#### TORQUE VALUES

Clutch slave cylinder bleed valve	9 N·m (0.9 kgf·m , 6.5 lbf·ft)	
Clutch fluid reservoir cap stopper plate screw	1 N·m (0.12 kgf·m , 0.9 lbf·ft)	
Clutch fluid reservoir mounting screw	1 N·m (0.15 kgf·m , 1.1 lbf·ft)	Apply locking agent to the threads
Clutch lever pivot nut	6 N·m (0.6 kgf·m , 4.3 lbf·ft)	
Clutch hose oil bolt	34 N·m (3.5 kgf·m , 25 lbf·ft)	
Clutch bolt	12 N·m (1.2 kgf·m , 9 lbf·ft)	
Clutch center lock nut	127 N·m (13.0 kgf·m , 94 lbf·ft)	Apply oil to the threads and seating surface and stake
Oil pump driven sprocket bolt	15 N·m (1.5 kgf·m , 11 lbf·ft)	Apply locking agent to the threads
Gearshift cam bolt	23 N·m (2.3 kgf·m , 17 lbf·ft)	Apply locking agent to the threads
Primary drive gear bolt	88 N·m (9.0 kgf·m , 65 lbf·ft)	Apply oil to the threads and seating surface

#### TOOLS

Snap ring pliers	07914-3230001
Clutch center holder	07724-0050002
Driver	07749-0010000
Attachment, 32 × 35 mm	07746-0010100
Pilot, 17 mm	07746-0040400
Attachment, 37 × 40 mm	07746-0010200
Attachment, 42 × 47 mm	07746-0010300
Gear holder	07724-0010100