12. CRANKCASE/CRANKSHAFT/BALANCER

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SERVICE INFORMATION

GENERAL

- This section covers crankcase separation for service of the crankshaft, connecting rod, transmission and balancer.
- The engine must be out of frame for this service.
- The following parts must be removed before separating the crankcase.
  - —Water pump (Section 6)
  - —Alternator (Section 11)
  - —Clutch/kickstarter/gearshift linkage (Section 10)
  - —Cylinder head (Section 8)
  - —Cylinder/piston (Section 9)
  - —Engine (Section 7)

SPECIFICATIONS

Unit: mm (in)

ITEM	STANDARD	SERVICE LIMIT
Connecting rod big end side clearance	0.05—0.65 (0.002—0.026)	0.80 (0.031)
Crankshaft runout	———	0.05 (0.002)
Connecting rod big end radial clearance	———	0.05 (0.002)

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TORQUE VALUES

Crankcase bolt	12 N·m (1.2 kgf·m , 9 lbf·ft)	
Mainshaft bearing set plate bolt	12 N·m (1.2 kgf·m , 9 lbf·ft)	Apply a locking agent to the threads
Cam chain tensioner bolt	12 N·m (1.2 kgf·m , 9 lbf·ft)	Apply a locking agent to the threads