

# 7. ENGINE REMOVAL/INSTALLATION

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## SERVICE INFORMATION

### GENERAL

- During engine removal and installation, support the motorcycle on its center stand.
- Support the engine using a jack or other adjustable support to ease of engine hanger bolts removal.

### CAUTION:

**Do not use the oil filter as a jacking point.**

- The following components can be serviced with the engine installed in the frame.

- Alternator (Section 10)
- Clutch (Section 9)
- Cylinder head/valves (Section 8)
- Front balancer (Section 12)
- Gearshift linkage (Section 9)
- Oil cooler (Section 4)
- Oil pump (Section 4)
- Shift forks/shift drum (Section 9)
- Water pump (Section 6)

- The following components require engine removal for service.

- Crankshaft/transmission (Section 12)
- Piston/cylinder (Section 11)
- Rear balancer (Section 12)

## SPECIFICATIONS

ITEM		SPECIFICATIONS
Engine dry weight		83.0 kg (183.0 lbs)
Coolant capacity	Radiator and engine	3.2 ℓ (0.85 US gal , 0.70 Imp gal)
Engine oil capacity	At disassembly	4.6 ℓ (4.9 US qt , 4.0 Imp qt)

## TORQUE VALUES

Side stand bracket bolt	54 N·m (5.5 kgf·m , 40 lbf·ft)	
Engine hanger bolt	40 N·m (4.1 kgf·m , 30 lbf·ft)	
Engine hanger nut (Rear/upper)	64 N·m (6.5 kgf·m , 47 lbf·ft)	
(Rear/lower)	64 N·m (6.5 kgf·m , 47 lbf·ft)	
Engine hanger adjusting bolt	11 N·m (1.1 kgf·m , 8 lbf·ft)	
Engine hanger adjusting bolt lock nut	54 N·m (5.5 kgf·m , 40 lbf·ft)	
Drive sprocket cover damper mounting bolt	12 N·m (1.2 kgf·m , 9 lbf·ft)	Apply a locking agent to the threads CT bolt
Wire clamp flange bolt	12 N·m (1.2 kgf·m , 9 lbf·ft)	Apply a locking agent to the threads CT bolt
Drive sprocket special bolt	54 N·m (5.5 kgf·m , 40 lbf·ft)	

## TOOLS

Lock nut wrench	07VMA-MAT0100
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