

8. CLUTCH/OIL PUMP/KICK STARTER

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SERVICE INFORMATION

GENERAL

- This section covers removal and installation of the right crankcase cover, clutch, oil pump, primary drive gear and kick starter. These services can be performed with the engine in the frame.

SPECIFICATIONS

ITEM		STANDARD	SERVECE LIMIT
Clutch	Spring free length	37.2 mm (1.46 in)	36.2 mm (1.43 in)
	Disc thickness	2.92–3.08 mm (0.115–0.121 in)	2.6 mm (0.10 in)
	Disc warp	—	0.20 mm (0.008 in)
	Plate warp	—	0.20 mm (0.008 in)
	Clutch outer I.D.	28.000–28.021 mm (1.1024–1.1032 in)	28.05 mm (1.104 in)
	Clutch outer guide O.D.	27.959–27.980 mm (1.1007–1.1016 in)	27.92 mm (1.099 in)
Oil pump	Pump end clearance	0.02–0.08 mm (0.001–0.003 in)	0.10 mm (0.004 in)
	Rotor tip clearance	0.15 mm (0.006 in)	0.20 mm (0.008 in)
	Rotor-to-body clearance	0.15–0.21 mm (0.006–0.008 in)	0.25 mm (0.010 in)
Kick starter	Shaft O.D.	21.959–21.980 mm (0.8645–0.8654 in)	21.90 mm (0.862 in)
	Pinion gear I.D.	22.020–22.041 mm (0.8669–0.8678 in)	22.10 mm (0.870 in)
	2nd idler gear I.D.	18.014–18.034 mm (0.7092–0.7100 in)	18.06 mm (0.711 in)
	2nd idler gear bushing O.D.	17.966–17.984 mm (0.7073–0.7080 in)	17.93 mm (0.706 in)
	2nd idler shaft O.D.	13.973–13.984 mm (0.5501–0.5506 in)	13.95 mm (0.549 in)
	2nd idler gear bushing I.D.	14.000–14.021 mm (0.5512–0.5520 in)	14.05 mm (0.553 in)

TORQUE VALUES

Oil bolts	8–12 N•m (0.8–1.2 kg-m, 6–9 ft-lb)
Kick ratchet guide	10–14 N•m (1.0–1.4 kg-m, 7–10 ft-lb)
Clutch lock nut	100–120 N•m (10.0–12.0 kg-m, 72–87 ft-lb)
Clutch lifter plate bolt	10–14 N•m (1.0–1.4 kg-m, 7–10 ft-lb)
Primary drive gear lock nut	50–60 N•m (5.0–6.0 kg-m, 36–43 ft-lb)