

8. CLUTCH/OIL PUMP/ GEARSHIFT LINKAGE

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SERVICE INFORMATION

GENERAL

- This section covers removal and installation of the centrifugal clutch, manual clutch, oil pump and gearshift linkage.
- The clutches, oil pump and gearshift linkage can be serviced with the engine installed in the frame.

SPECIFICATIONS

ITEM		STANDARD	SERVICE LIMIT
Manual clutch	Spring free length	25.7 mm (1.01 in)	25.0 mm (0.98 in)
	Spring preload	37.5 kg (86.67 lb)	—————
	Disc thickness	2.9–3.0 mm (0.11–0.12 in)	2.6 mm (0.10 in)
	Disc warpage	—————	0.20 mm (0.008 in)
	Plate warpage	—————	0.20 mm (0.008 in)
Centrifugal clutch	Drum I.D.	116 mm (4.57 in)	116.3 mm (4.58 in)
	Weight thickness	4.3 mm (0.17 in)	4.1 mm (0.16 in)
	Spring free length	267.5 mm (10.53 in)	282 mm (11.1 in)
	Spring preload	12.3–13.7 kg (27.1–30.20 lb)	—————
	Clutch outer guide O.D.	20.000–20.021 mm (0.7874–0.7882 in)	19.95 mm (0.785 in)
Oil pump	Rotor-to-cover clearance	0.15–0.20 mm (0.006–0.008 in)	0.25 mm (0.010 in)
	Rotor tip clearance	0.15 mm (0.006 in)	0.20 mm (0.008 in)
	Rotor-to-body clearance	0.30–0.36 mm (0.012–0.014 in)	0.40 mm (0.016 in)

TORQUE VALUES

Oil filter rotor cover bolts	10–14 N·m (1.0–1.4 kg-m, 7–10 ft-lb)
Manual clutch lock nut	50–60 N·m (5.0–6.0 kg-m, 36–43 ft-lb)
Centrifugal clutch lock nut	105–115 N·m (10.5–11.5 kg-m, 76–83 ft-lb)
Clutch adjusting screw lock nut	19–25 N·m (1.9–2.5 kg-m, 14–18 ft-lb)
Clutch lifter stopper bolt	18–25 N·m (1.8–2.5 kg-m, 13–18 ft-lb)
Gearshift drum stopper arm bolt	10–14 N·m (1.0–1.4 kg-m, 7–10 ft-lb)
Gearshift drum stopper plate bolt	8–12 N·m (0.8–1.2 kg-m, 6–9 ft-lb)

TOOLS

Special

Lock nut wrench, 30 mm	07907–6890100	Equivalent commercially available in U.S.A.
Clutch center holder	07923–9580000	
Bearing remover, 17 mm	07936–3710300	
Bearing remover handle	07936–3710100	

Common

Lock nut wrench, 20 x 24 mm	07716–0020100 or 07916–3710000	
Extension bar	07716–0020500	Equivalent commercially available in U.S.A.
Sliding weight	07741–0010201	
Driver	07749–0010000	
Attachment, 37 x 40 mm	07746–0010200	
Pilot, 17 mm	07746–0040300	

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