



8. CLUTCH/OIL PUMP

SERVICE INFORMATION	8-1
TROUBLESHOOTING	8-2
RIGHT CRANKCASE COVER REMOVAL	8-3
CLUTCH	8-5
OIL PUMP	8-9
DRIVE GEAR REMOVAL	8-13
DRIVE GEAR INSTALLATION	8-13
RIGHT CRANKCASE COVER INSTALLATION	8-14

SERVICE INFORMATION

GENERAL INSTRUCTIONS

- This section covers removal and installation of the clutch and oil pump, starting with the right crankcase cover. All these operations can be accomplished with the engine installed.
- When the existing clutch discs are replaced, coat new discs with engine oil prior to assembly.

SPECIAL TOOL

Clutch center holder 07923-4280000 (Not available in U.S.A)

TORQUE VALUES

Clutch lock nut 45-60 N·m (4.5-6.0 kg-m, 33-43 ft-lb)
 Drive gear 45-60 N·m (4.5-6.0 kg-m, 33-43 ft-lb)
 Right crankcase cover 8-12 N·m (0.8-1.2 kg-m, 6-9 ft-lb)

SPECIFICATIONS

ITEM	STANDARD	SERVICE LIMIT	
Clutch	Lever free play (at lever end)	15-25 mm (5/8 - 1 in)	
	Spring free length	41 mm (1.61 in)	39.5 mm (1.56 in)
	Spring preload/length	23.75-26.25 kg/28.5 mm (52.4-57.8 lb/1.12 in)	—
	Disc thickness	2.62-2.78 mm (0.102-0.109 in)	2.3 mm (0.09 in)
	Plate warpage	—	0.3 mm (0.01 in)
	Primary drive gear I.D.	27.000-27.021 mm (1.0630-1.0638 in)	27.05 mm (1.065 in)
	Outer guide O.D.	26.959-26.980 mm (1.0614-1.0622 in)	26.91 mm (1.059 in)
	I.D.	22.000-22.035 mm (0.8661-0.8675 in)	22.05 mm (0.868 in)
Oil pump	Length	33.20-33.30 mm (1.307-1.311 in)	33.10 mm (1.303 in)
	Inner rotor-to-outer rotor clearance	0.15 mm (0.006 in) max.	0.20 mm (0.008 in)
	Outer rotor-to-body clearance	0.15-0.21 mm (0.006-0.008 in)	0.25 mm (0.01 in)
	Rotor-to-cover clearance	0.02-0.08 mm (0.001-0.003 in)	0.12 mm (0.005 in)
Starter idler gear	I.D.	15.016-15.034 mm (0.5912-0.5919 in)	15.10 mm (0.595 in)
Mainshaft-to-clutch outer guide clearance		0.020-0.068 mm (0.0008-0.0027 in)	0.12 mm (0.0047 in)