

CLUTCH

SERVICE INFORMATION

GENERAL

- This section covers removal and installation of the clutch hydraulic system, clutch and primary driver gear.
- DOT-3 brake fluid is used for the hydraulic clutch and is referred to as clutch fluid in this section. Do not use other types of fluid as they are not compatible.
- Clutch maintenance can be done with the engine in the frame.

SPECIFICATIONS

		STANDARD	SERVICE LIMIT
Clutch master cylinder	Cylinder I.D.	14.000–14.043 mm (0.5512–0.5524 in)	14.06 mm (0.553 in)
	Piston O.D.	13.957–13.984 mm (0.5495–0.5506 in)	13.94 mm (0.549 in)
Clutch slave cylinder	Cylinder I.D.	38.100–38.162 mm (1.5000–1.5024 in)	38.18 mm (1.503 in)
	Piston O.D.	38.036–38.075 mm (1.4975–1.4990 in)	38.02 mm (1.497 in)
Clutch	Outer guide I.D.	24.995–25.012 mm (0.9841–0.9847 in)	25.08 mm (0.987 in)
	Spring free height	3.9 mm (0.15 in)	3.6 mm (0.14 in)
	Clutch center B I.D.	74.414–74.440 mm (2.9297–2.9307 in)	74.50 mm (2.933 in)
	One way clutch inner O.D.	57.710–57.840 mm (2.2720–2.2772 in)	57.60 mm (2.268 in)
	Disc thickness	3.72–3.88 mm (0.147–0.153 in)	3.1 mm (0.12 in)
	Plate warpage	–	0.30 mm (0.012 in)
Pulse coil air gap		0.3–0.9 mm (0.01–0.04 in)	–

TORQUE VALUES

Clutch hose oil bolts		25–35 N·m (2.5–3.5 kg-m, 18–25 ft-lb)
Clutch fluid reservoir cover		1–2 N·m (0.1–0.2 kg-m, 0.7–0.9 ft-lb)
Clutch lever pivot nut		5–7 N·m (0.5–0.7 kg-m, 4–5 ft-lb)
Clutch center lock nut		45–55 N·m (4.5–5.5 kg-m, 33–40 ft-lb)
Clutch cover bolts		8–12 N·m (0.8–1.2 kg-m, 6–9 ft-lb)
Right crankcase cover bolts		8–12 N·m (0.8–1.2 kg-m, 6–9 ft-lb)
Primary gear bolt		80–100 N·m (8.0–10.0 kg-m, 58–72 ft-lb)
Sub-frame bolts	Upper	70–80 N·m (7.0–8.0 kg-m, 51–58 ft-lb)
	Lower	35–45 N·m (3.5–4.5 kg-m, 25–33 ft-lb)
Exhaust pipe joint nuts		8–14 N·m (0.8–1.4 kg-m, 6–10 ft-lb)
Exhaust pipe clamp bolts		18–28 N·m (1.8–2.8 kg-m, 13–20 ft-lb)

TOOLS

Special

Snap ring pliers	07914–3230001 or commercially available in U.S.A.
Gear holder	07924–MC70001 or modified 07924–MC70000 or 07924–4150000
Shaft holder	07923–6890101

Common

Extension bar	07716–0020500] or commercially available in U.S.A.
Lock nut wrench, 17 x 27 mm	07716–0020300	
Driver	07749–0010000	
Attachment, 37 x 40 mm	07746–0010200	
Pilot, 35 mm	07746–0040800	