

CRANKCASE/CRANKSHAFT/TRANSMISSION

ITEM		STANDARD	SERVICE LIMIT	
Transmission	Gear-to-bushing clearance	M4	0.020–0.062 mm (0.0008–0.0024 in)	0.10 mm (0.004 in)
		M5	0.040–0.082 mm (0.0016–0.0032 in)	0.10 mm (0.004 in)
		C1	0.015–0.057 mm (0.0006–0.0022 in)	0.10 mm (0.004 in)
		C2, CR	0.020–0.062 mm (0.0008–0.0024 in)	0.10 mm (0.004 in)
		C3	0.040–0.082 mm (0.0016–0.0032 in)	0.10 mm (0.004 in)
	Bushing-to-shaft clearance	M4	0.020–0.062 mm (0.0008–0.0024 in)	0.10 mm (0.004 in)
		M5	0.022–0.051 mm (0.0009–0.0020 in)	0.10 mm (0.004 in)
		R	0.016–0.059 mm (0.0006–0.0023 in)	0.10 mm (0.004 in)
	Output gear backlash		0.080–0.180 mm (0.0031–0.0071 in)	0.25 mm (0.010 in)

TORQUE VALUES

Crankcase bolt	8–12 N·m (0.8–1.2 kg-m, 6–9 ft-lb)
Output gear case socket bolt	20–25 N·m (2.0–2.5 kg-m, 14–18 ft-lb)
Output gear driven bearing lock nut (Outer)	90–110 N·m (9.0–11.0 kg-m, 65–80 ft-lb)
(Inner)	70–80 N·m (7.0–8.0 kg-m, 51–58 ft-lb)
Output gear bearing holder socket bolt	30–34 N·m (3.0–3.4 kg-m, 22–25 ft-lb)
Output gear drive bearing outer lock nut	90–110 N·m (9.0–11.0 kg-m, 65–80 ft-lb)

TOOLS

Special

Bearing remover, 17 mm	07936–3710300
Remover weight	07741–0010201 or 07936–3710200
Remover handle	07936–3710100
Shaft holder	07924–ME50000
Lock nut wrench, 30 x 64 mm	07916–MB00001 or 07916–MB00000
Bearing remover, 15 mm	07936–KC10500
Lock nut wrench, 34 x 44 mm	07916–ME50001 or 07916–ME50000
Universal bearing puller	07631–0010000 or commercially available in U.S.A.
Crankshaft assembly collar	07931–KF00100
Shaft puller	07931–ME40000 or 07931–ME4000A (U.S.A. only)
Threaded adaptor	07931–KF00200
Attachment, 28 x 30 mm	07946–1870100
Lock nut wrench attachment	07916–HA0020A (U.S.A. only)
Bearing driver attachment	07916–HA00000

Common

Driver	07749–0010000
Attachment, 72 x 75 mm	07746–0010600
Attachment, 37 x 40 mm	07746–0010200
Pilot, 35 mm	07746–0040800
Pilot, 17 mm	07746–0040400
Attachment, 52 x 55 mm	07746–0010400
Pilot, 22 mm	07746–0041000
Attachment, 42 x 47 mm	07746–0010300
Pilot, 20 mm	07746–0040500
Pilot, 25 mm	07746–0040600
Driver	07746–0030100
Attachment, 30 mm I.D.	07746–0030300
Pilot, 15 mm	07746–0040300
Pilot, 28 mm	07746–0041100