

TRANSMISSION/CRANKSHAFT/BALANCER

ITEM	STANDARD mm (in)	SERVICE LIMIT mm (in)
Connecting rod big end side clearance	0.2–0.6 (0.01–0.02)	1.0 (0.04)
Connecting rod big end axial/radial clearance	0.010–0.022 (0.0004–0.0009)	0.04 (0.002)
Crankshaft journal runout	—	0.05 (0.002)

TORQUE VALUES

Primary drive gear bolt	40–50 N·m (4.0–5.0 kg·m, 29–36 ft·lb)
Countershaft bearing holder screw	8–12 N·m (0.8–1.2 kg·m, 6–9 ft·lb)

TOOLS

Special

Crankcase puller	07937–4300000
Bearing remover, 17 mm	07936–3710300
Remover handle	07936–3710100
Remover weight	07741–0010201 or 07736–3710200
Assembly bolt	07965–1660200
Thread adapter	07965–KA30000
Driveshaft dis/assembly tool (B)	07964–MB00200
Assembly collar	07931–KF00100 or 07945–3710101

Common

Driver	07749–0010000
Attachment, 37 x 40 mm	07746–0010200
Pilot, 17 mm	07746–0040400
Attachment, 62 x 68 mm	07746–0010500
Pilot, 28 mm	07746–0041100
Attachment, 52 x 55 mm	07746–0010400
Pilot, 25 mm	07746–0040600
Universal holder	07725–0030000

TROUBLESHOOTING

Engine noise

- Worn crankshaft bearing
- Worn connecting rod big end bearing
- Worn transmission bearing

Transmission jumps out of gear

- Gear dogs and slots worn
- Shift fork bent or damaged
- Shift fork shaft bent
- Shift drum stopper damaged

Hard to shift

- Clutch not adjusted properly
- Shift fork bent
- Shift fork shaft bent
- Worn or damaged shift drum cam grooves