

Forward Gear / Pinion Gear Back-Up Shim Adjustment

Follow the procedure below to adjust forward gear / pinion gear.

Prior to adjustment

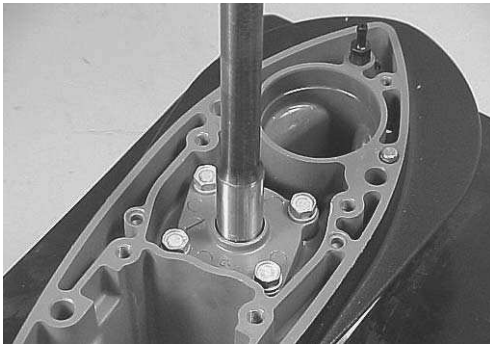
- 1) Install standard pinion gear back-up shim thickness according to \pm design specification mark on the gear.



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“A”: \pm design spec. mark

- 2) Correctly assemble driveshaft oil seal housing, driveshaft, forward gear, pinion gear and related components. Refer to “Lower Unit Assembly” (Page 3A-16).
Do not install reverse gear at this time.



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- 3) Tighten pinion nut to specified torque.

Tightening torque

Pinion nut: 120 N·m (12.0 kgf·m, 86.8 lbf·ft)

Checking driveshaft thrust play

- 1) Affix the gear adjusting gauge to driveshaft.

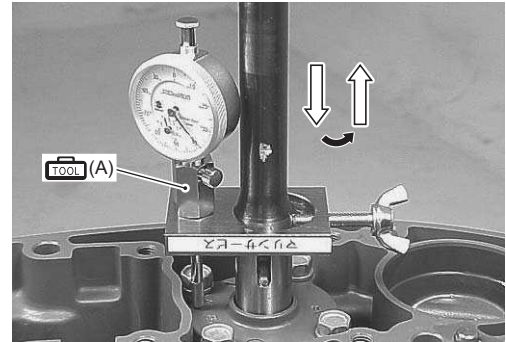
Special tool

TOOL (A): 09951-09530 (Gear adjusting gauge)

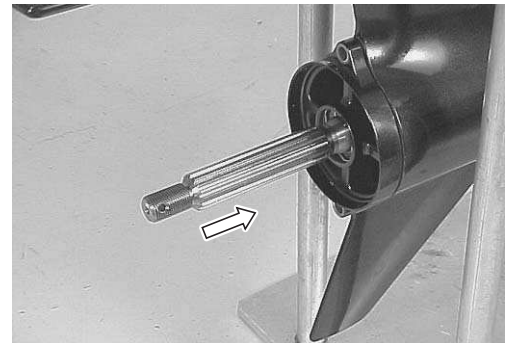
- 2) To check driveshaft thrust play, push the forward gear inward and hold it in this position. Slowly push the driveshaft downward completely, then slowly pull the driveshaft up and read the maximum thrust play.

Driveshaft thrust play

0.4 – 0.6 mm (0.016 – 0.023 in.)



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- If thrust play is larger than specified, the forward gear back-up shim thickness must be increased.
- If thrust play is smaller than specified, the forward gear back-up shim thickness must be decreased.