

SERVICE EQUIPMENT AND TOOLS

NOTE: Order tools from your SERVICE-GARD™ Catalog. Some tools may be available from a local supplier.

Name	Use
13-Ton Puller Set	To service bearings and sheave
Bushing, Bearing, and Seal Driver Set	To service bearings and seals

M45;;8005A 0 281085

OTHER MATERIAL

Number	Name	Use
TY6431	John Deere SLIP-PLATE® Lubricant	Lubricate inside diameter of gears
PT569	John Deere NEVER-SEEZ® Lubricant	Lubricate drive shafts

NEVER-SEEZ is a trademark of the Never-Seez Compound Corp.

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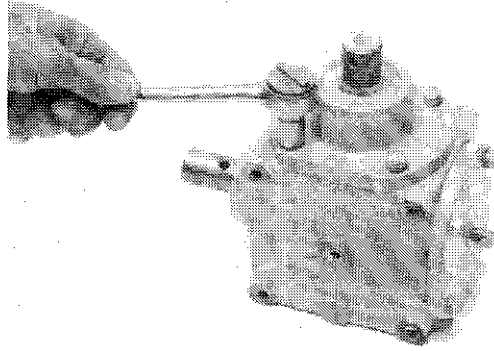
SPECIFICATIONS

Item	Measurement	Specification
Seals	Depth	2.5 mm (0.100 in.)
Input Shaft Cover Cap Screw	Torque	23 ± 2N·m (200 ± 20 lb-in.)
Output Shaft	End Play	Zero
Output Shaft	Rolling drag torque	0.4 to 1.0 N·m (5 to 15 oz-in.)
Output Shaft Cover Cap Screws	Torque	23 ± 2N·m (200 ± 20 lb-in.)
Drive Sheave Set Screws (50-in. Mower)	Torque	20 N·m (180 lb-in.)
Gear Box Assembly Mounting Cap Screws	Torque	55 N·m (40 lb-ft)

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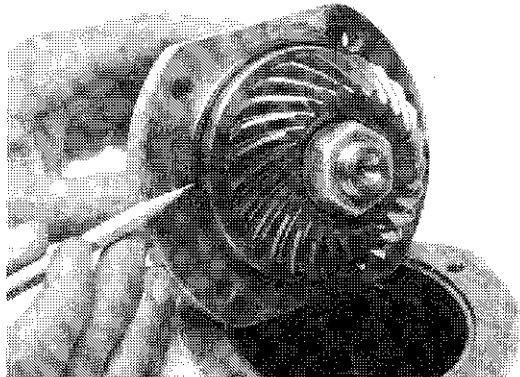
DISASSEMBLE GEARBOX

1. Remove output shaft cover. Drain oil from gearbox.



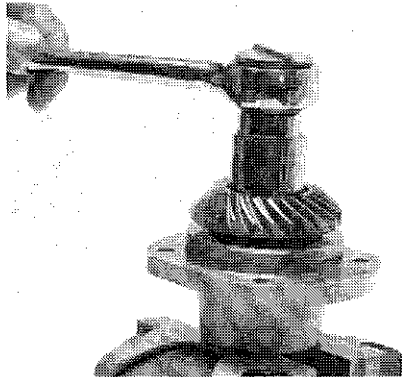
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2. Remove O-ring.



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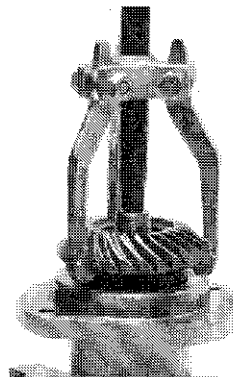
3. Hold output shaft in a self-jaw vice. Remove nut and washer.



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4. Remove output gear and bearing assembly. Use puller if necessary. Inspect gear for wear or damage. Replace if necessary.

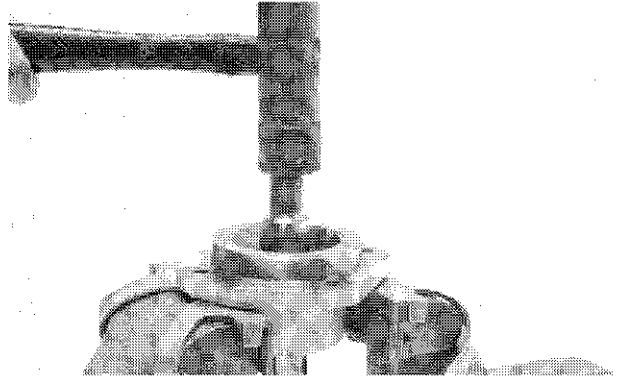
NOTE: Straight-cut gears are not serviced. On gearboxes with straight-cut gears, replace both gears with spiral-cut gears if either one is defective.



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Mower Gearbox/Gearbox

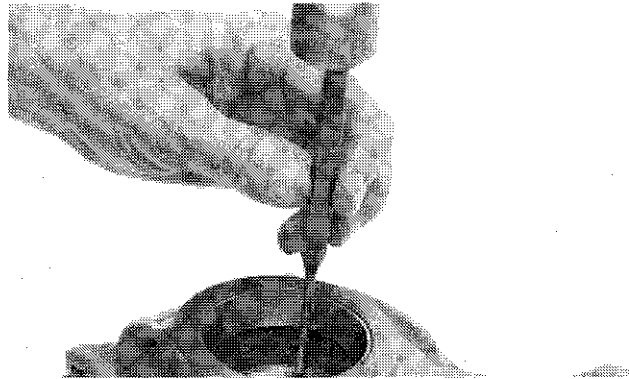
5. Remove output shaft.



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IMPORTANT: Bearing and race are a matched set. Keep them together. Replace bearing and race if either is defective.

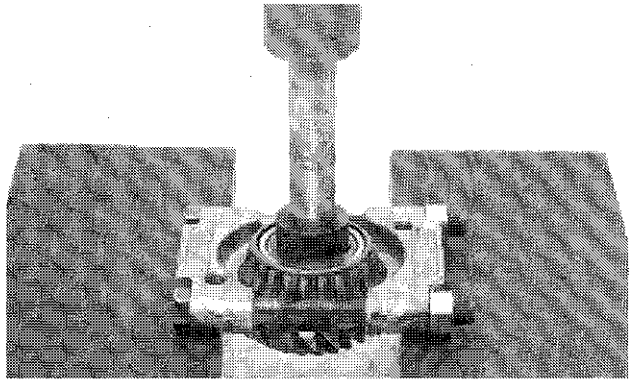
6. Remove bearing races if worn or damaged.



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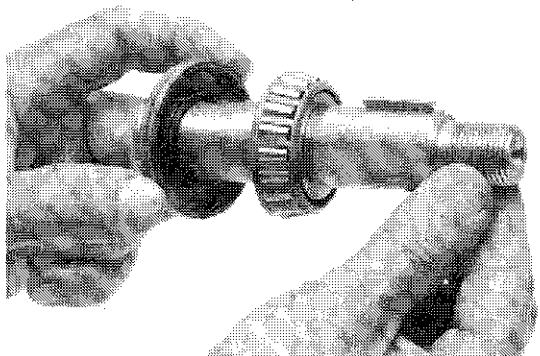
NOTE: Remove and replace bearing only if worn.

7. Remove bearing from gear. Use a knife-edge splitter and press with a 1-1/4-in. disk on top of bearing.



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8. Remove and discard seal. Remove key.

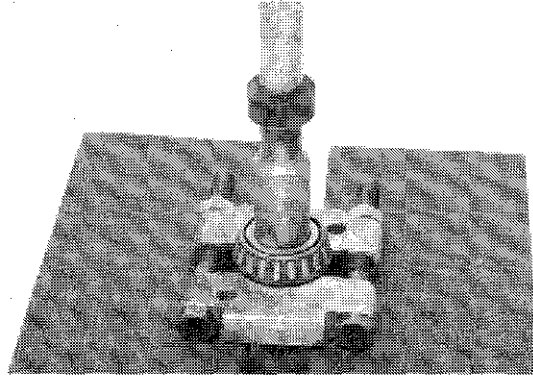


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Mower Gearbox/Gearbox

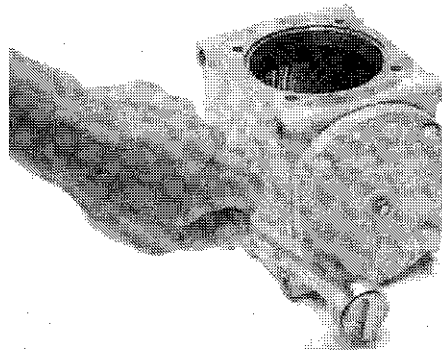
NOTE: Remove bearing only if replacement is necessary.

9. Press bearing off output shaft. Be sure snap ring under gear does not rest on splitter.



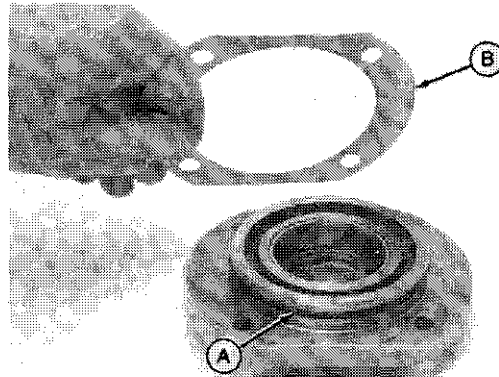
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10. Remove input shaft cover.



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11. Remove O-ring (A) and shim (B). Shim will be attached to the cover or to the gearbox housing.

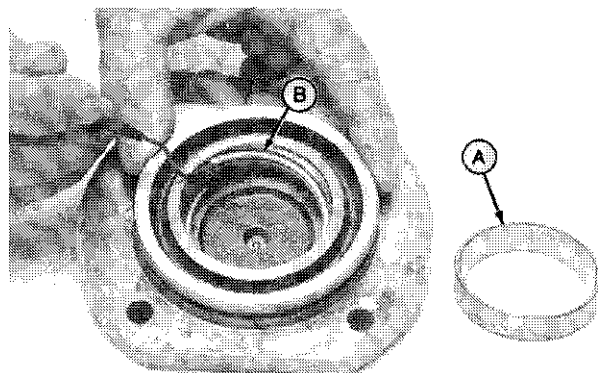


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12. Remove bearing race (A) and crush ring (B) from cover plate. Discard crush ring.

Inspect bearing race for wear, and replace as necessary.

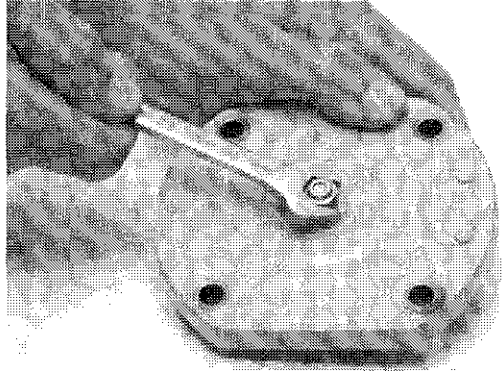
Install new crush ring (B) when assembling gearbox. Follow procedure for assembly in Group 05.



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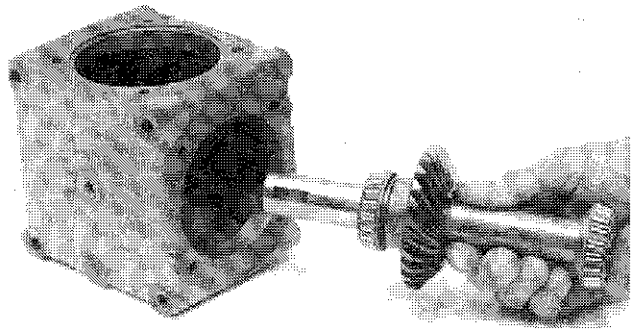
Mower Gearbox/Gearbox

13. Remove breather. Inspect air passage and clean or replace if necessary.



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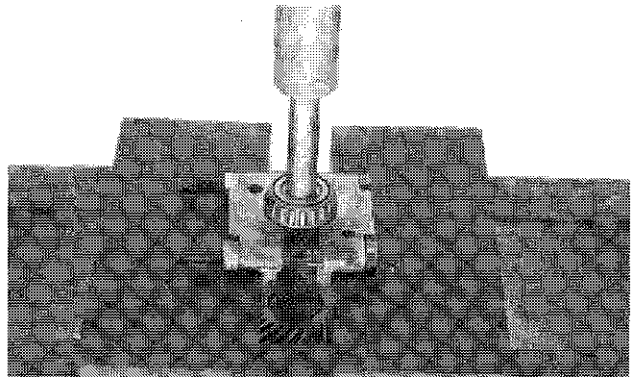
14. Remove input shaft assembly.



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IMPORTANT: Remove bearing only if replacement is necessary. Use care not to damage snap ring below bearing.

15. Remove bearing from shaft using a knife-edge puller and press.



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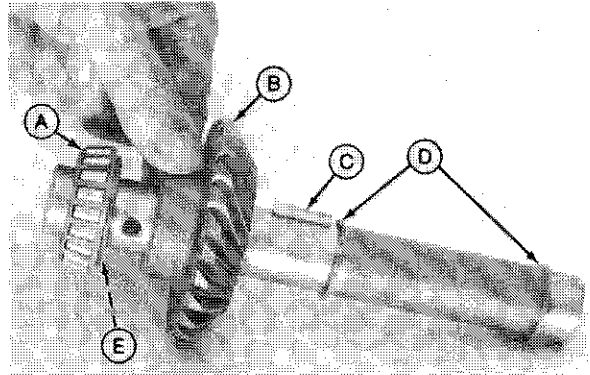
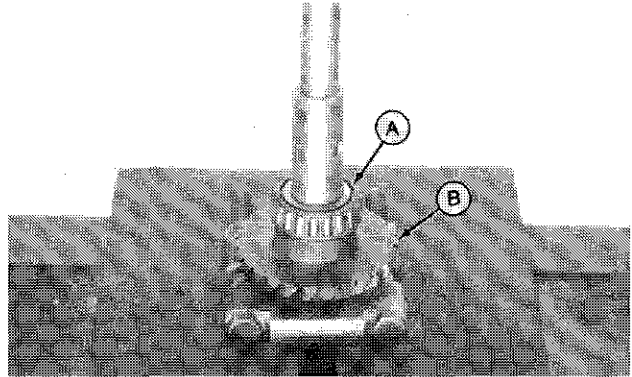
Mower Gearbox/Gearbox

16. Remove bearing (A) and gear (B) with knife-edge splitter and press. Be sure snap ring under gear does not rest on splitter.

17. Remove key (C) and snap rings (D) if required.

NOTE: If there is a shim (E) between the bearing and gear, it must be used when the bearing is installed.

Inspect bearing and gear for pits or damage. Replace if necessary.

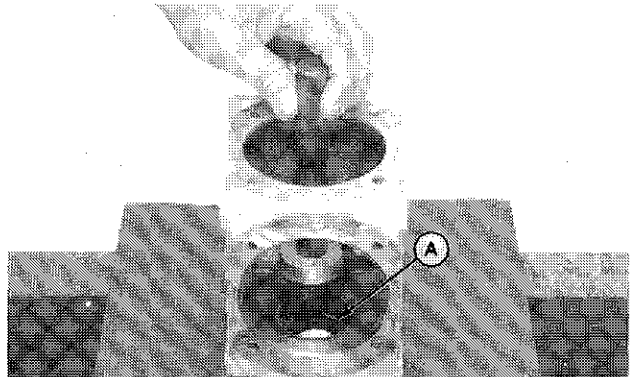


A—Bearing
B—Gear
C—Key

D—Snap Ring
E—Shim

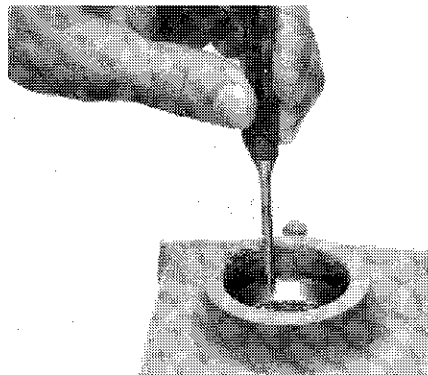
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18. Drive seal (A) out of housing using a 1-9/16-in. driver disk.



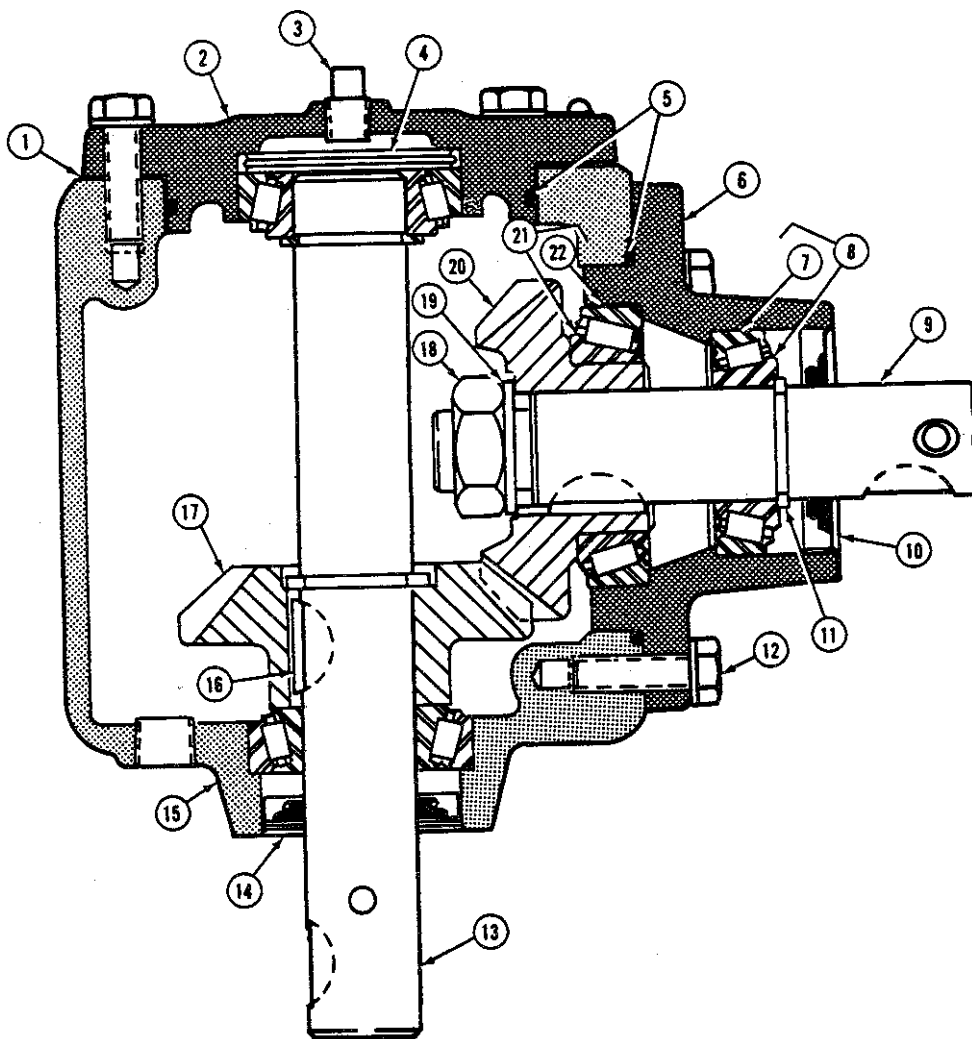
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19. Remove bearing race.



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CROSS SECTION OF GEARBOX



- 1—Shim
- 2—Input Shaft Cover
- 3—Breather
- 4—Crush Ring
- 5—O-ring (2 used)
- 6—Output Shaft Cover

- 7—Bearing Race
- 8—Bearing Assembly (3 used)
- 9—Output Shaft
- 10—Seal
- 11—Snap Ring (3 used)

- 12—Cap Screw (8 used)
- 13—Input Shaft
- 14—Seal
- 15—Case
- 16—Key (2 used)
- 17—Input Gear (26-tooth)

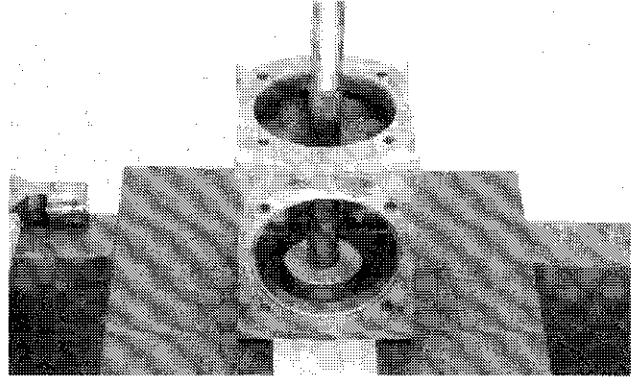
- 18—Nut
- 19—Washer
- 20—Output Gear (25-tooth)
- 21—Bearing Assembly
- 22—Bearing Race

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ASSEMBLE GEARBOX

NOTE: When installing new roller bearings and races, keep each set together as they are received.

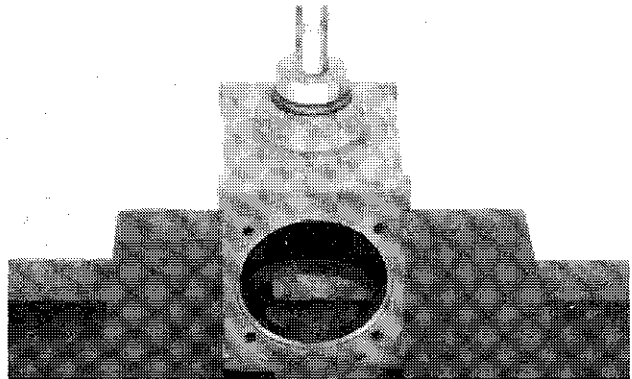
1. Install new bearing race. Use a 1-15/16-in. driver disk.



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NOTE: Use new seals and O-rings when assembling gearbox.

2. Install new seal. Use a 1-11/16-in. driver disk to press seal to 2.5 mm (0.100 in.) below surface.

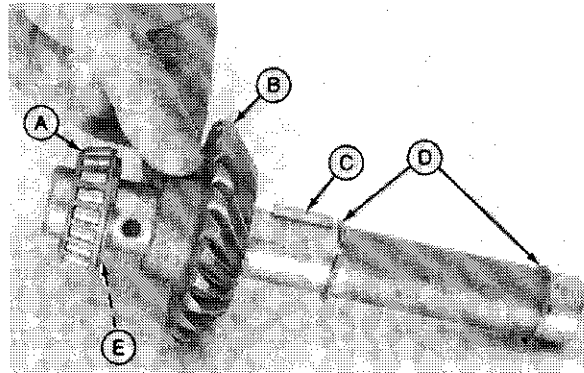


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3. Install snap rings (D). Apply SLIP-PLATE lubricant to inside diameter of gear (B) and install on key (C).

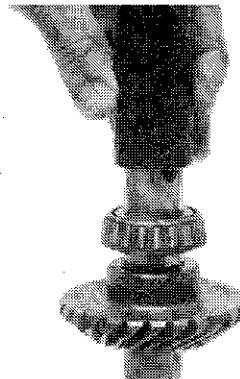
NOTE: Service bearings may have a shim in the box along with a new outer race. Bearing, race and shim are a matched set. Keep them together.

4. Install shim (E) (if equipped) and press bearing (A) against gear (B). Press on inner bearing race using a 1-5/16-in. OD pipe.



A—Bearing
B—Gear
C—Key

D—Snap Ring
E—Shim



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