

Instructions
for use of

Part No. 600-100-1 Bearing Puller

Used to remove starter pinion shaft needle bearing
on
Continental C-75, C-85, C-145, O-200, IO-240, O-300 and GO-300

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Record of Revisions

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<u>Revision</u>	<u>Description of Change</u>	<u>Date</u>
A	Original Issue.....	11 Mar 94
B	Added IO-240 and GO-300.....	22 Dec 00
C	Added insertion tool to parts list.....	11 Dec 01

Introduction

Replacement of Continental electrically engaged (key-type) starters with the Model BC320-1, -2 or -3 starter requires removal of a pinion shaft needle bearing from rear of the crankcase. If the engine is mounted on an airplane, crankcase-firewall clearances may limit the choice of extraction tools. B&C part number 600-101-1 bearing puller was developed to work in the space between engine and firewall. These instructions describe the use of B&C Part Number 600-100-1 bearing puller to accomplish this task.

PARTS LIST

The following parts are supplies with this kit:

Qty.	Part No.	Description
1	FK501-2	Field Kit Instruction Manual
1	600-100-1	Bearing Puller
1	LTA3032	Special thin 15/16 x 1" wrench
1	44473	Special thin 11/16 x 5/8" wrench
1		Insertion tool

INSTRUCTIONS

- Step 1. Refer to Figure 1 for description of the 500-100-1 bearing puller. Retract the puller's expansion mandrel by holding body hex and backing off expansion hex. Rotate pulling hex nut to position closest to body hex.
- Step 2. Fit 3/4" shallow socket on ratchet wrench; slip socket over expansion hex. Place anti-scuff washer and transparent pulling sleeve over bearing puller as shown. Rotate puller so that slot in expanding mandrel is vertical. Push bearing puller into needle bearing until it is fully seated.
- Step 3. Slide thin 11/16" wrench (provided) onto body hex. Brace wrench against bottom of 9 o'clock starter mounting stud.
- Step 4. Maintain pressure to keep puller fully seated in bearing. Tighten expansion hex with ratchet wrench. As mandrel expands in bearing, tightening torque will increase. Stop tightening when it feels "snug" and mandrel stops expanding as viewed through the transparent pulling sleeve.

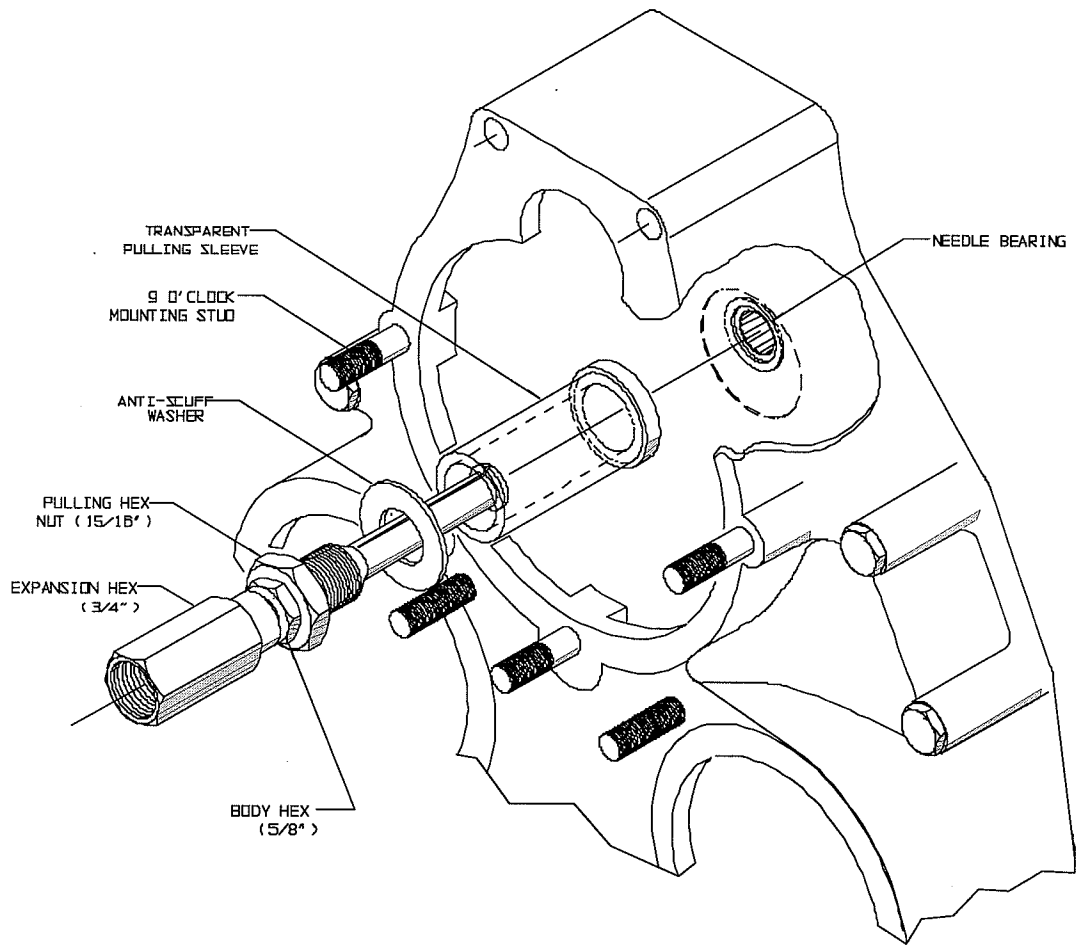


Figure 1. Removal of Pinion Shaft Bearing

- Step 5. Keep 11/16" wrench braced against 9 o'clock starter mounting stud and place thin 15/16" wrench (supplied) onto pulling hex nut. Tighten pulling hex nut against pulling sleeve. As the mandrel is extracted, observe needle bearing through transparent pulling sleeve to be sure that the bearing is coming out with the mandrel.
- Step 6. After the bearing has moved approximately 1/8"; back off tension on both pulling and expansion hexes. Reseat pulling mandrel as described in Step 4.

CAUTION

**The bearing may fall apart during extraction.
Take care to insure that bearing needles do
not drop into the accessory case.**

- Step 7. Continue extraction of pinion shaft needle bearing from rear of crankcase. As bearing clears, any dislodged needles from the bearing will be retained by tilting puller downward while holding pulling sleeve against anti-scuff washer.