

# Service Bulletin

Bulletin No. 2009-16

Circulate to: Sales Manager Accounting Service Manager Technician Parts Manager

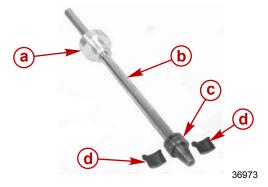
## Tool for Removing the Inner Propeller Shaft Seal on Bravo Three Sterndrives

#### **Models Affected**

Models Covered	Serial Number or Year
Bravo Three Sterndrives and Zeus Pod Drives	All

#### New Tool for Seal Removal

A new tool for inner propeller shaft oil seal removal is now available to aid in the removal of the inner propeller shaft canister-style seal. The new tool makes it easier to remove the seal without damaging the shaft or the needle bearings.



- a Centering guide
- b Driver rod
- c Mandrel
- d Collet

Description	Part Number
Inner propeller shaft seal removal tool	91-8M2013914

### Removing the Inner Propeller Shaft Seal

1. Install the outer propeller shaft nut on the shaft.

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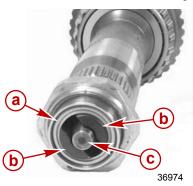
2. Insert the tool collets in front of the seal one at a time. Ensure the flanges of both collets engage the front of the seal and not the back plastic-protected side.



- a Collet with flange
- **b** Front of seal
- c Collet-inserted

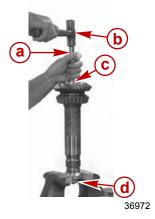
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3. Insert the driver rod mandrel through the propeller shaft and between the tool collets, as shown.



- a Seal
- b Collet
- c Mandrel

- 4. Lock the outer propeller shaft nut on the assembly into a vise with soft jaws. Do not overtighten the vise.
- 5. Install the centering guide over the driver rod and position it in the end of the outer propeller shaft.
- 6. Using a brass hammer, lightly strike the driver rod to drive the inner propeller shaft seal from the outer propeller shaft.



- a Driver rod
- **b** Brass hammer
- c Centering guide
- d Collets

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