MERCURY MerCruiser

Service Bulletin

Bulletin No. 2009-16

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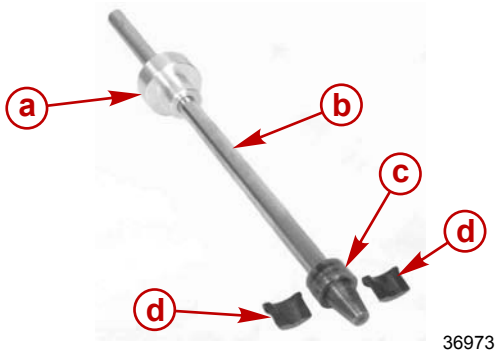
Tool for Removing the Inner Propeller Shaft Seal on Bravo Three Sterndrives

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.



36973

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

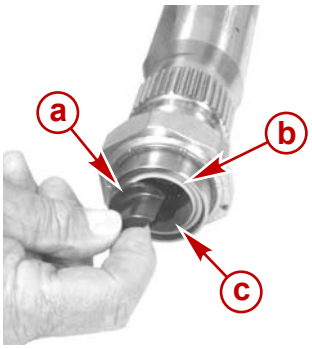
1. Install the outer propeller shaft nut on the shaft.

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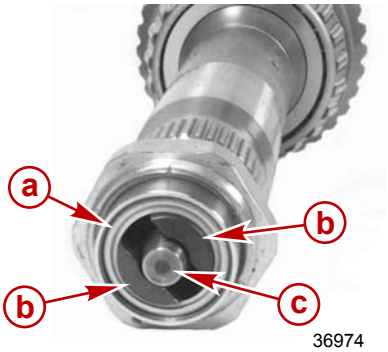
2. Insert the tool collets in front of the seal one at a time. Ensure the flanges of both collets engage the front of the seal and not the back plastic-protected side.



36967

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

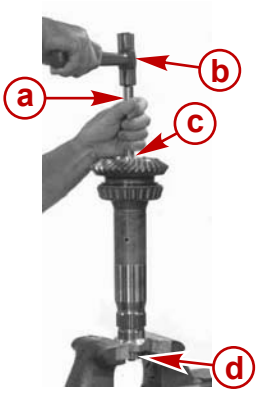
3. Insert the driver rod mandrel through the propeller shaft and between the tool collets, as shown.



36974

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.



36972

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

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