

Phil

## Outboard Bottom Bracket Bearing Replacement Instructions



STEP 1



Set cup into holder (#1) as shown. Set shield remover (#2) into cup as shown. Using a vice (with soft jaws) or hand pressure, compress and press down to remove the shield. Repeat the above steps for the other cup.

**Important:** Rubber seal orientation on the plastic shield needs to be noted.

STEP 2



Place #3 into the cup and verify contact is made with the inner race of the bearing. If not, go to **step 3**.

Use a vice (with soft jaws) for compression to remove the bearing. Repeat for the other cup. Proceed to **step 4**.

STEP 3



For cups not able to use #3, set collet (#6) in cup as shown with the O-ring toward the cup threads. With thumb against #6 as shown, insert the expander (#5) to expand #6. Place assembly in #1. Use a vice (with soft jaws) for compression to remove bearing. Repeat for the other cup.

STEP 4



Thoroughly clean inside the cup and the outer race of the bearing to be installed. Apply a thin layer of Phil SRC Red to the outer race of the new bearing on the bearing side of the bearing / shield installer (#4). Using a vice (with soft jaws), press the bearing into the cup.

STEP 5



**Important:** Be careful to install the rubber seal, noted in **step 1**, on the plastic shield, keeping the orientation as when it was removed.

To install the plastic shield, flip tool #4 over so the smaller diameter shoulder is supporting the plastic shield. Push together by hand or by using a vice (with soft jaws).

STEP 6

Reinstall cups as per manufacturer's instructions.