

Disassembly Instructions - Dual Grip ROS

Models: 58600, 58601

Notice: Use these instructions along with the tool manual.

Important: Disconnect tool from the air supply.

- To avoid damage, use the Special Maintenance Tools designed for disassembly and assembly.
- Disconnect tool from the air supply. Use **50679** Wrench (26 mm) to hold the balancer shaft stationary. Remove sanding pad and shroud.

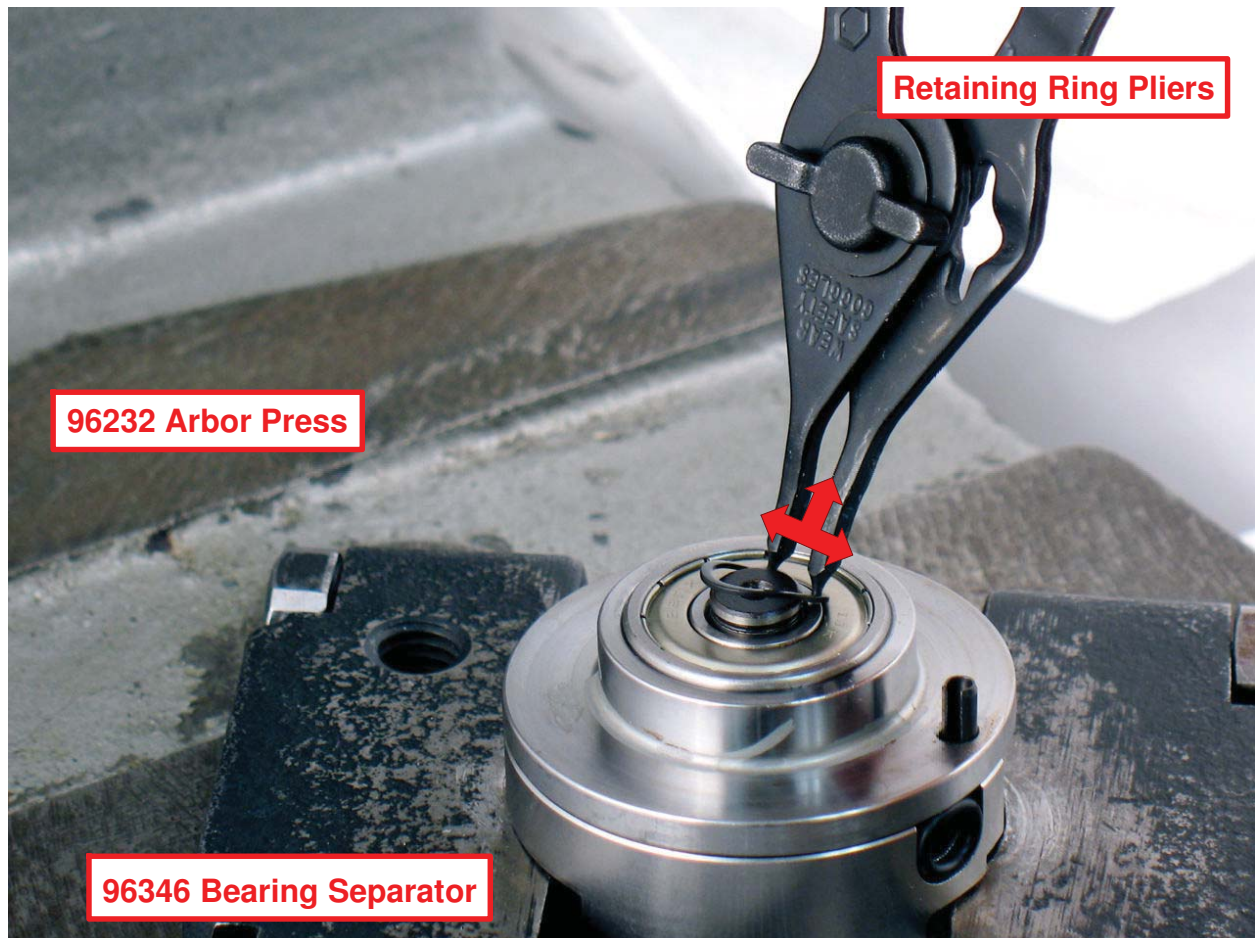
Motor Disassembly:



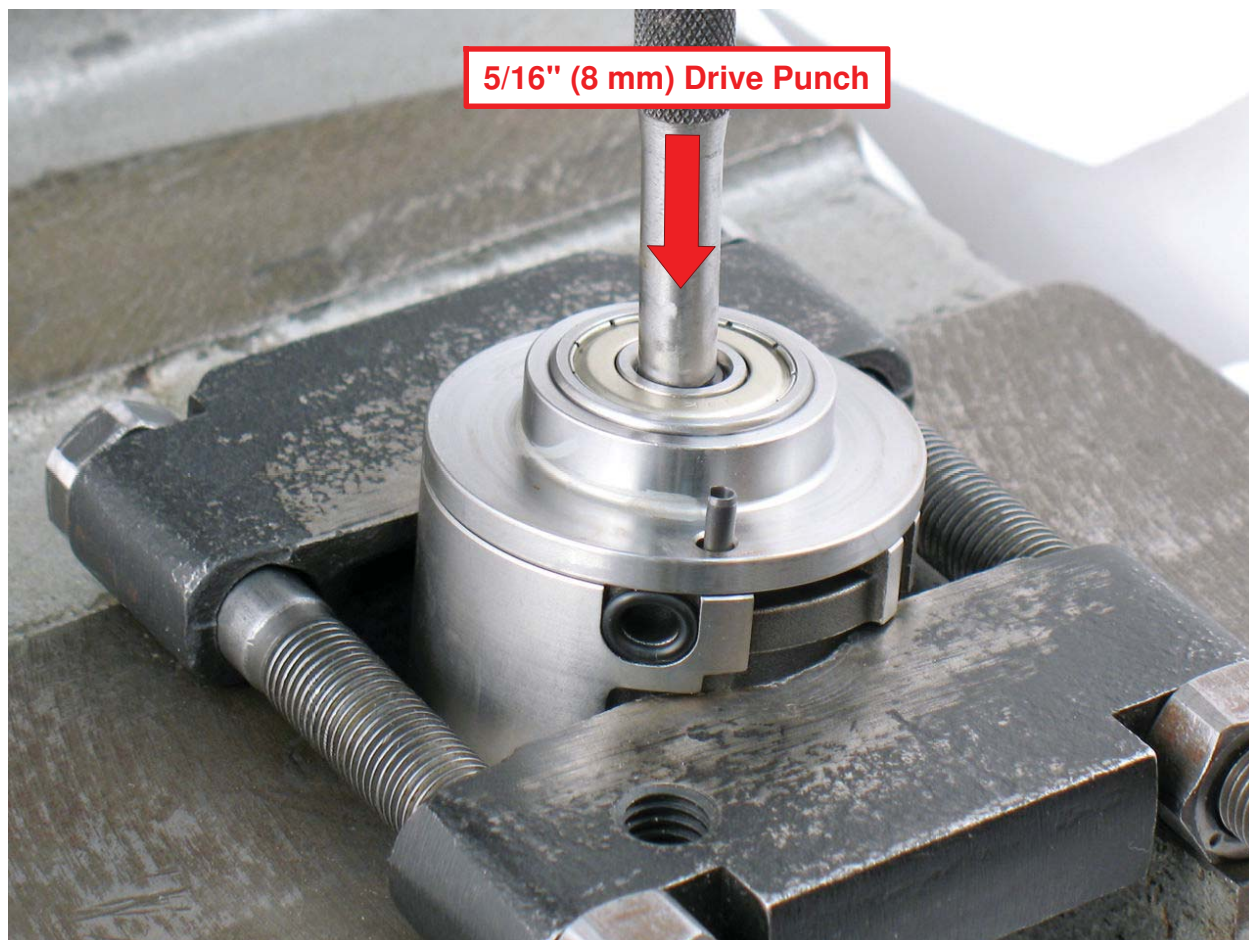
1. Invert sander and position **57092** Repair Collar around the housing. Fasten sander in a vise with balancer shaft pointing up. **Notice:** Do not over tighten sander in vise. Over tightening will make it difficult to loosen **56046** Lock Ring.
 - Use **56058** Lock Ring Wrench to remove lock ring. Turn counterclockwise.



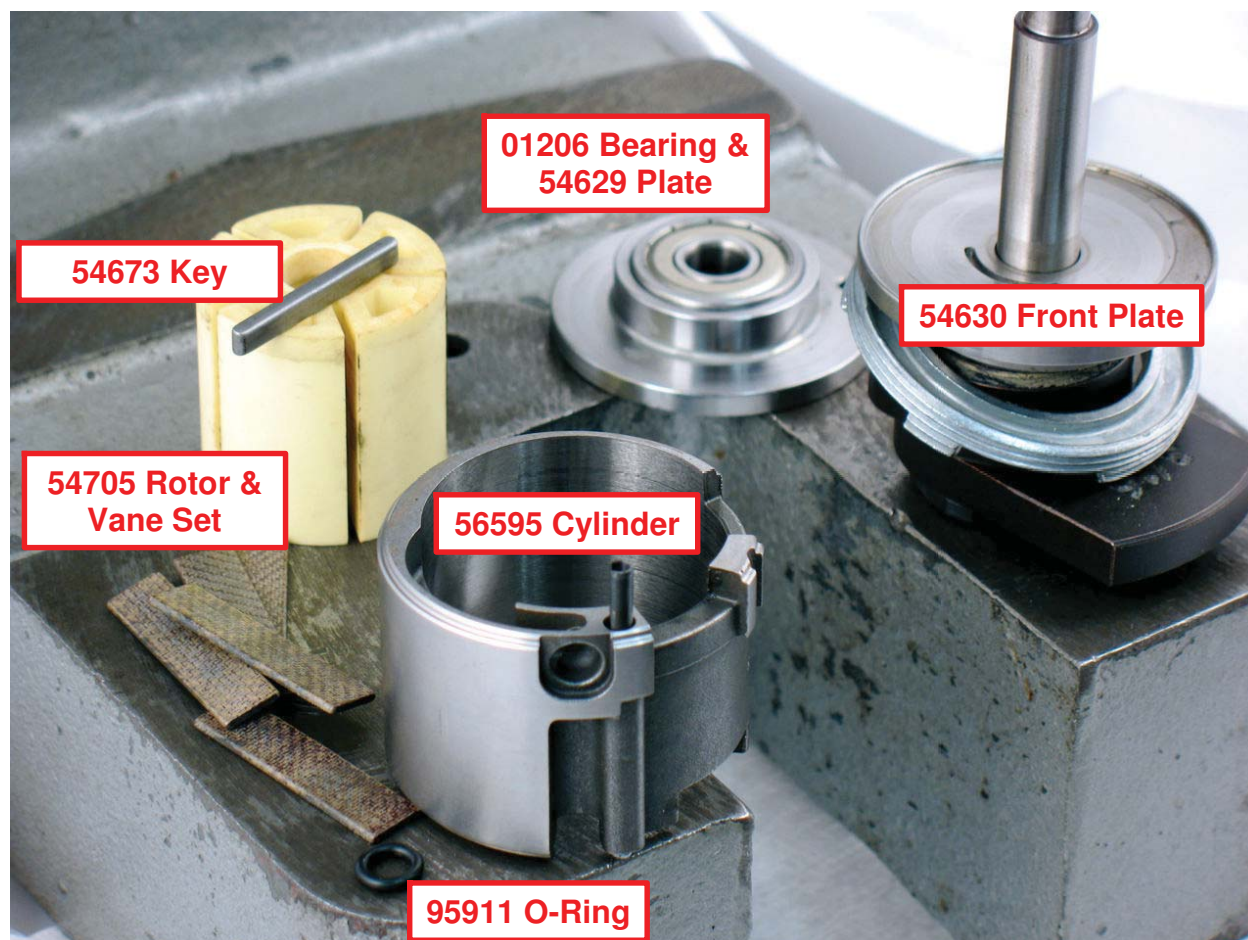
2. Remove motor from housing.



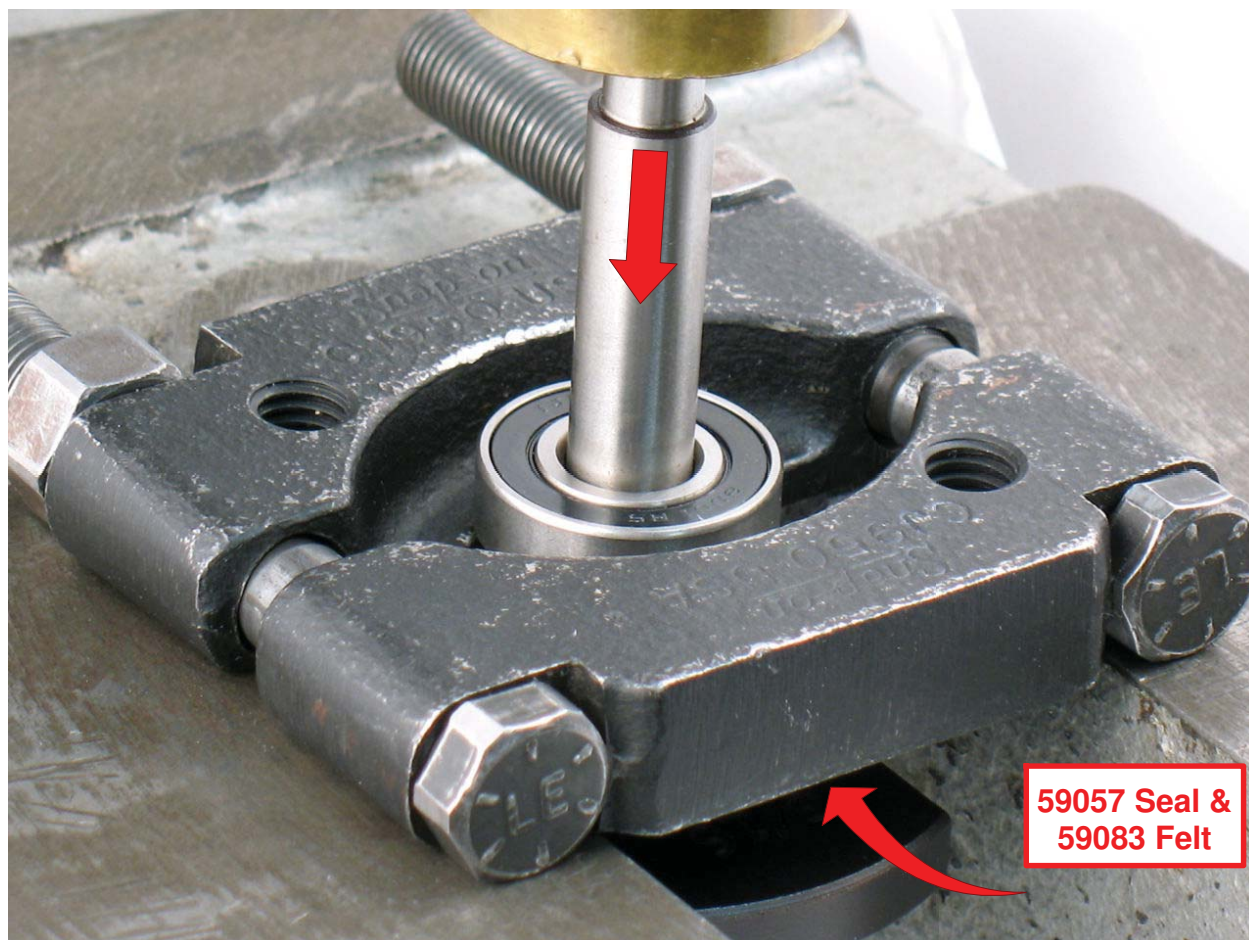
3. Fasten **96346** Bearing Separator (2") around **56595** Cylinder. Place bearing separator and motor in **96232** Arbor Press (#2) with counterweight pointing down.
 - Use retaining ring pliers to remove **95626** Retaining Ring.



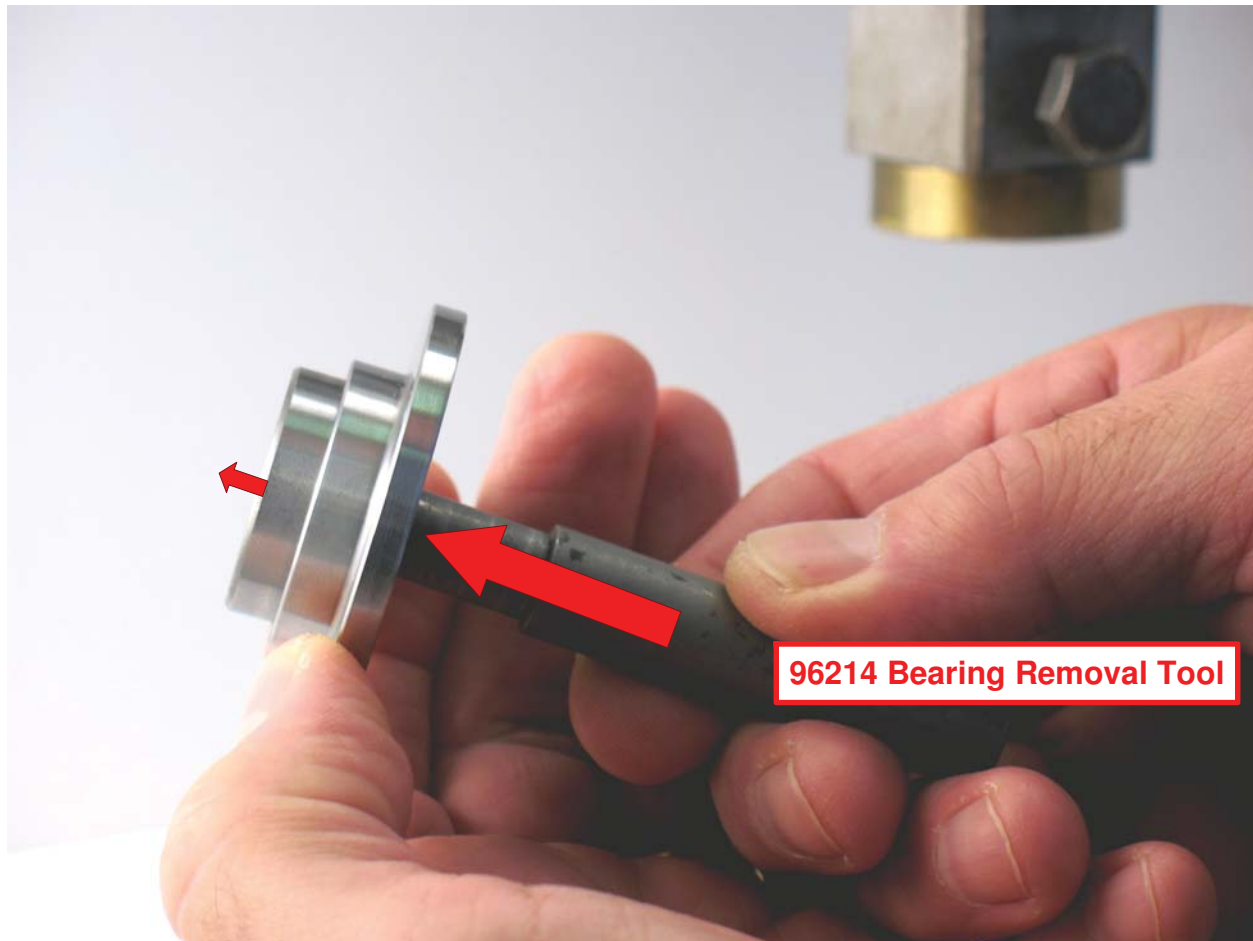
4. Use arbor press and \varnothing 5/16" or 8 mm flat-end drive punch to push shaft out of **01206** Bearing.



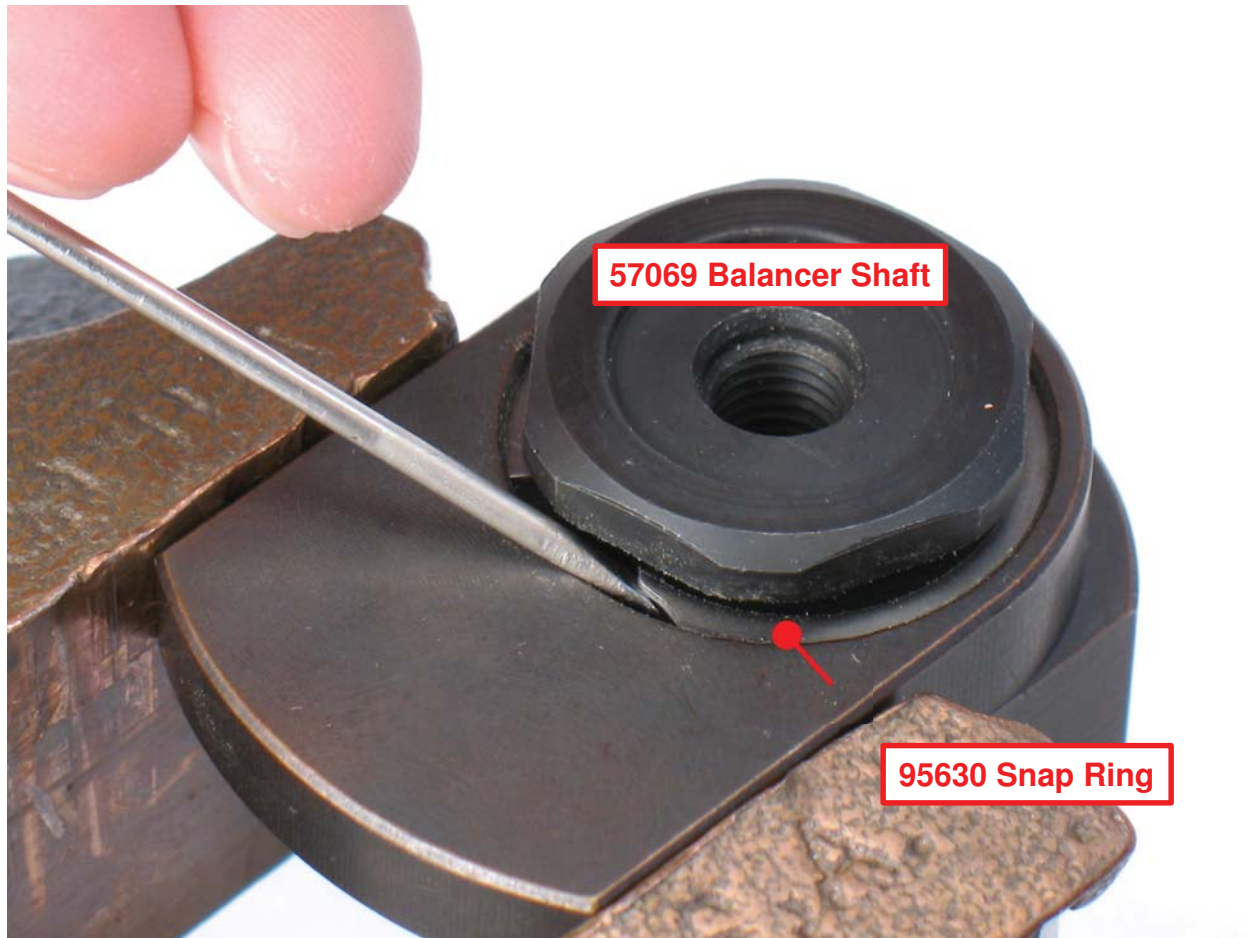
5. Remove loose parts.



6. Use bearing separator and arbor press to remove **02695** Bearing, **59057** Seal and **59083** Felt Washer.



7. By hand, use **96214** Bearing Removal Tool to remove **01206** Bearing from **54629** Rear Plate.

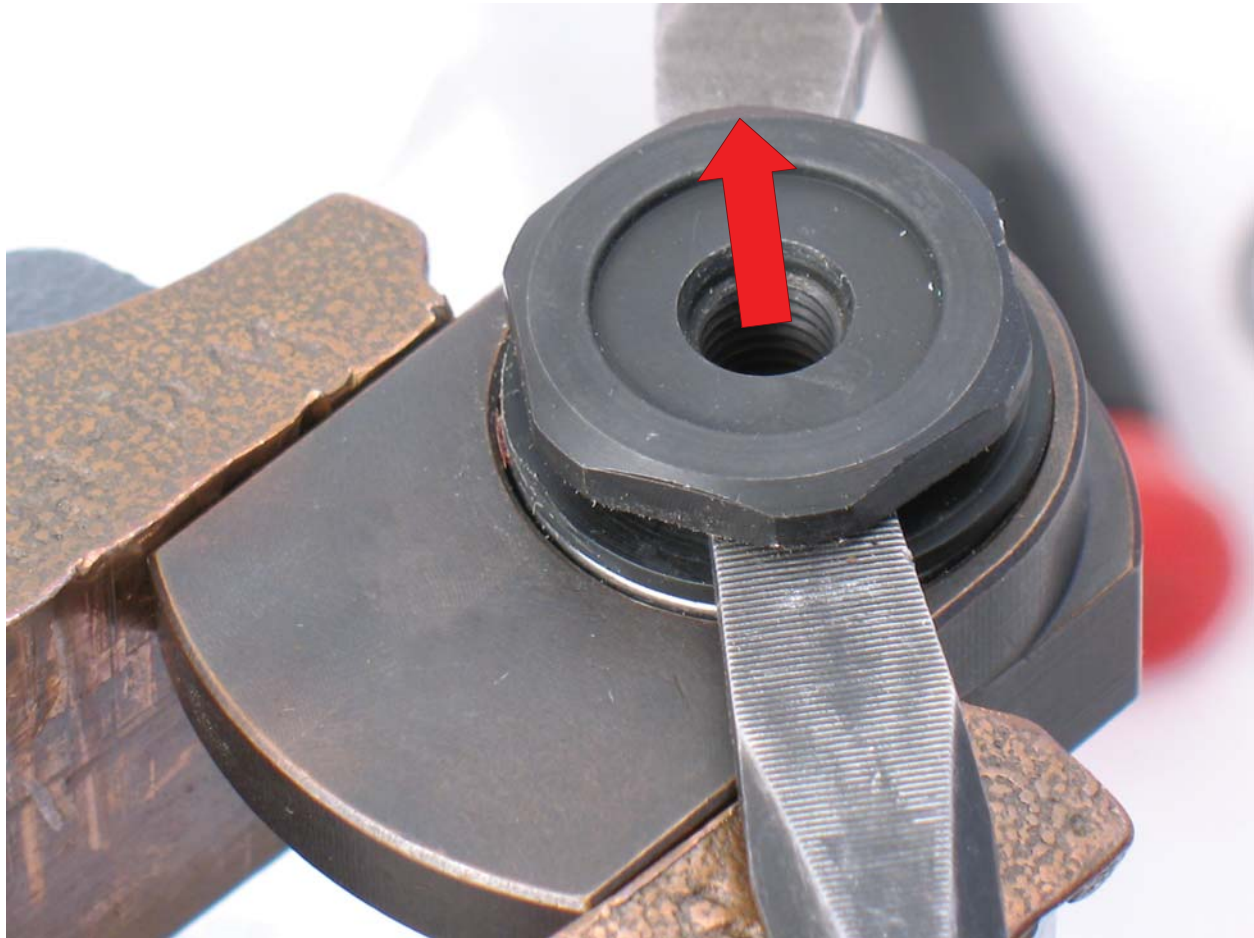


8. Balancer Bearing and Shaft Disassembly:

- With hex of **57069** Balancer Shaft pointing up, fasten counterweight in vise.
- Use a thin slot-blade screwdriver to remove **95630** Snap Ring.



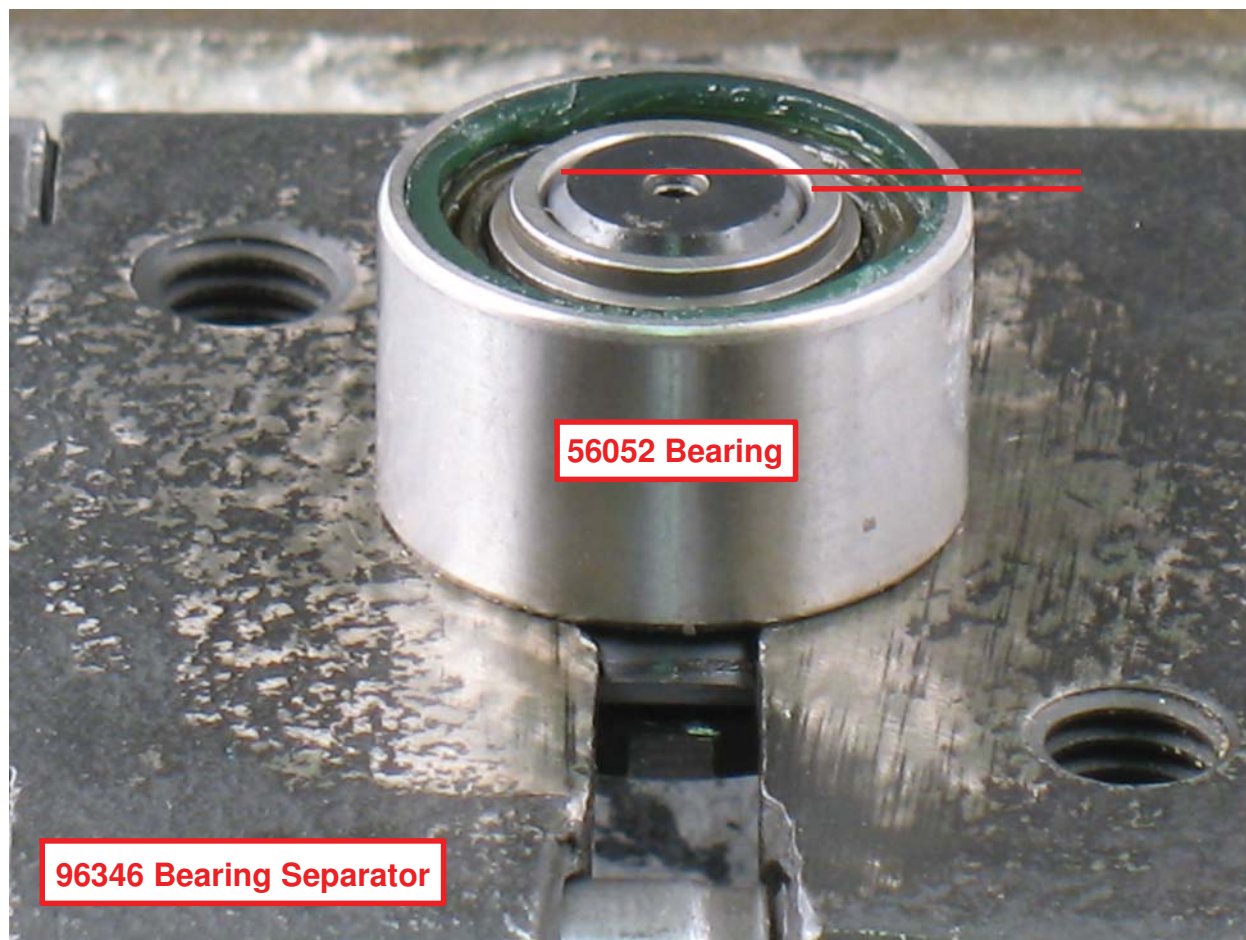
8. (continued) Slide screwdriver around counterweight to release snap ring.



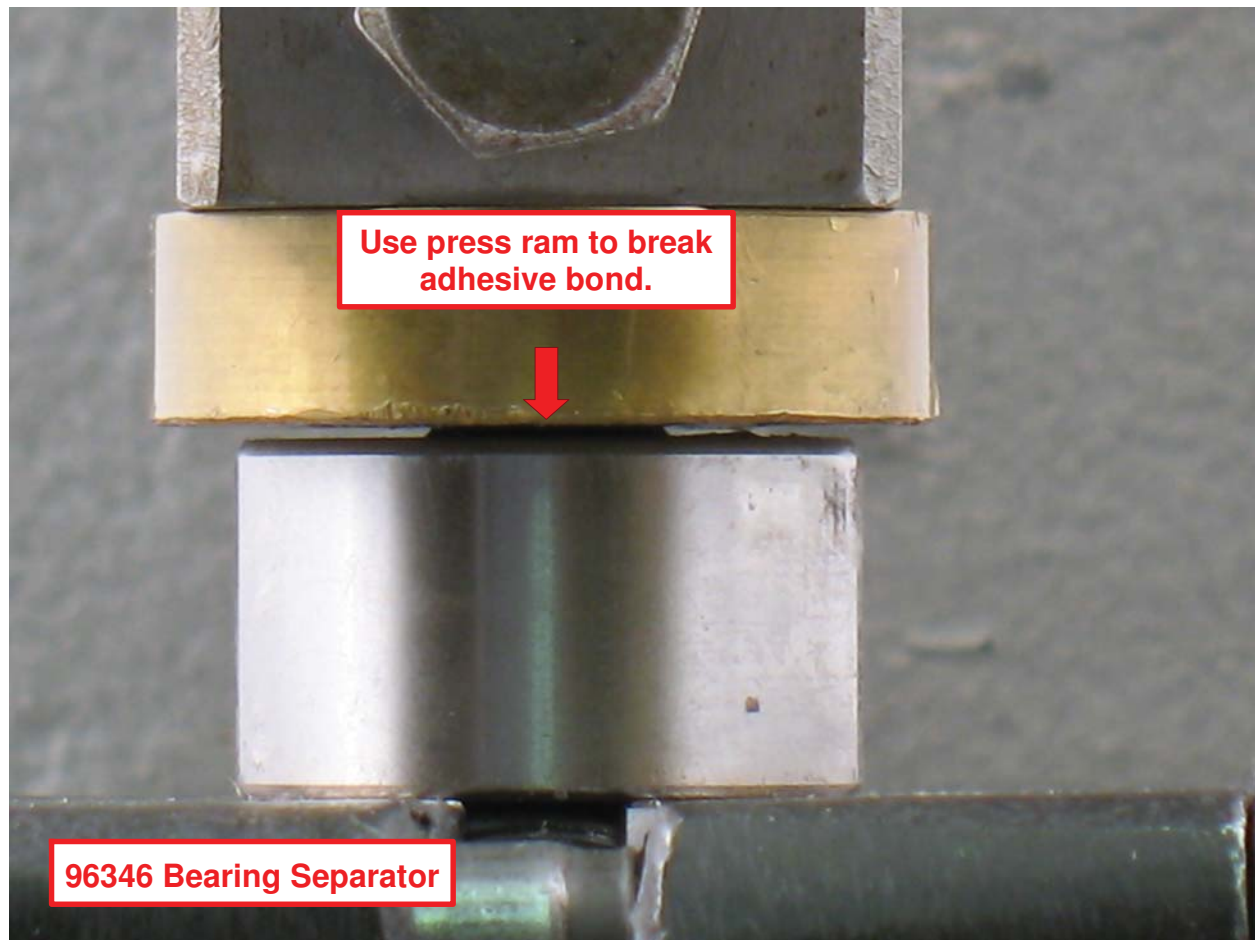
9. To break adhesive bond, use two large slot-blade screwdrivers to pry out balancer shaft and bearing. **Notice:** If necessary, use a HEAT GUN to warm counterweight and soften adhesive.



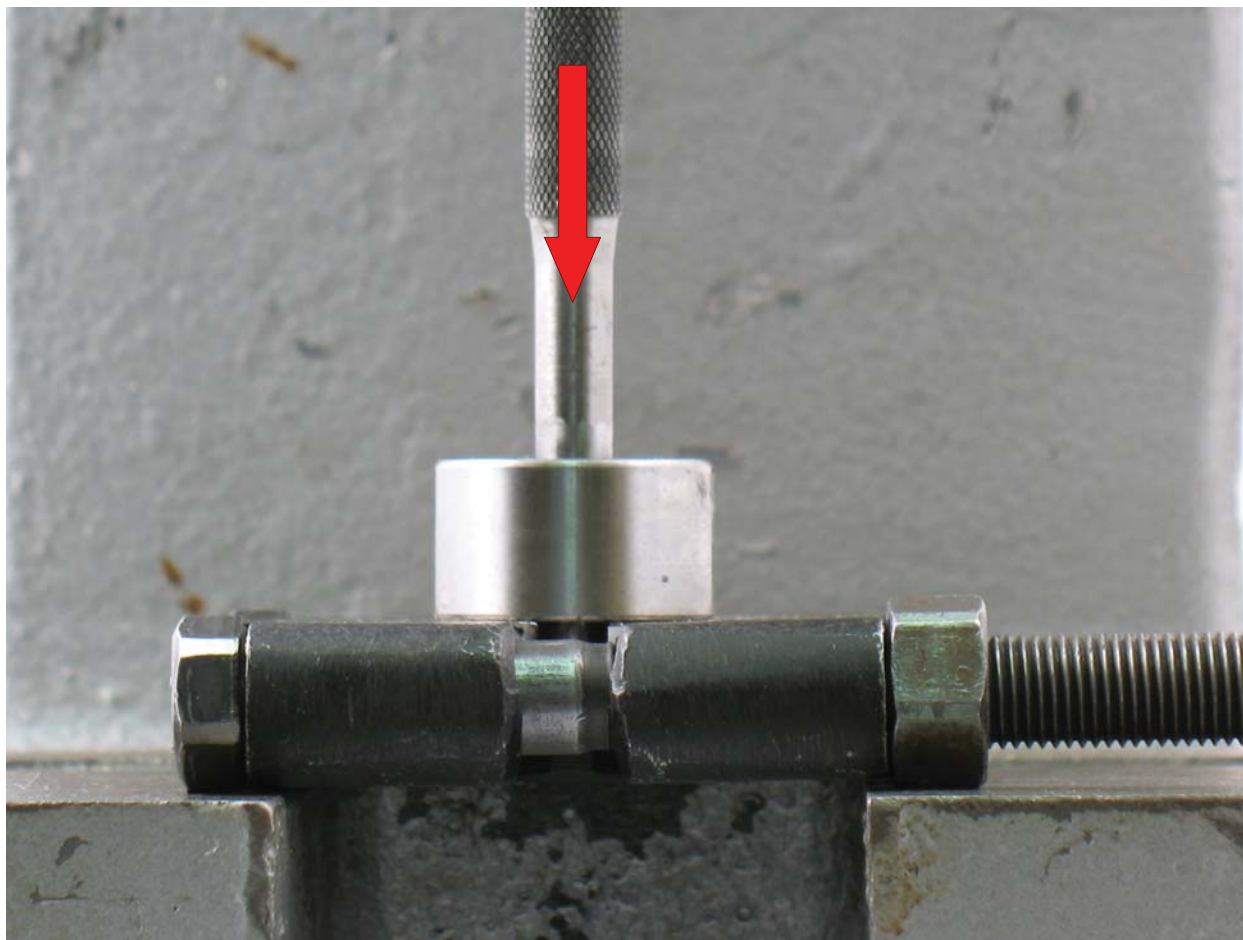
10. Use **56056** Bearing Puller to remove balancer shaft and bearing.



11. Fasten bearing separator between **56052** Bearing and hex end of **57069** Balancer Shaft.



12. With hex end of balancer shaft pointing down, place bearing separator with shaft and bearing in arbor press.
 - Use press ram to break adhesive bond.



13. Use 5/16" or 8 mm diameter flat-end drive punch to push balancer shaft from **56052** Bearing.



14. Remove the **59084 V-Seal**.

Motor disassembly completed.

Clean and inspect parts before assembling.



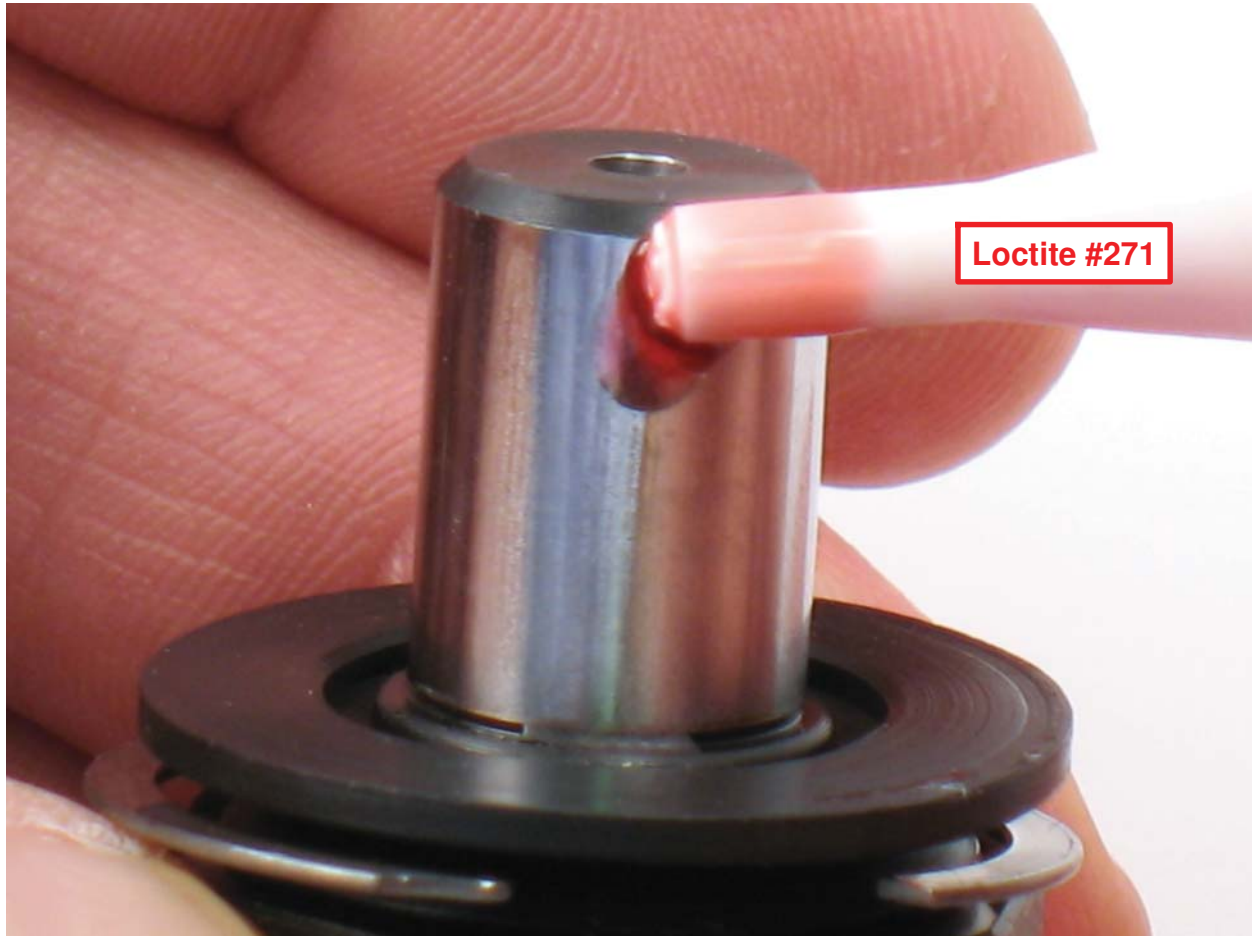
Disassembly/Assembly Instructions

Assembly Instructions – Dual Grip ROS

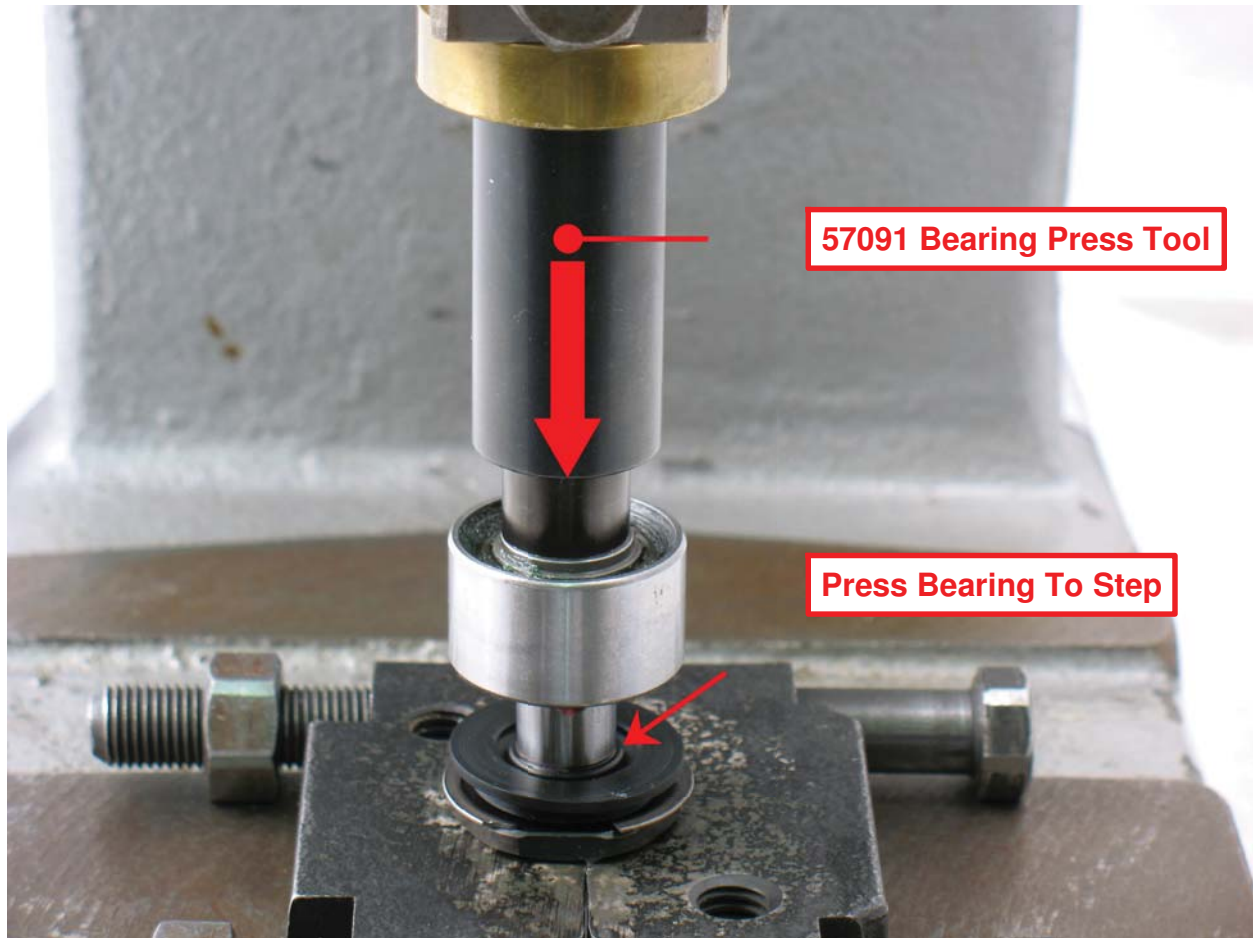
Motor Assembly:



- 1. Balancer Shaft and Bearing Assembly:**
Install **95630** Snap Ring onto **59084** V-Seal.



2. Install **59084** V-Seal with **95630** Snap Ring onto **57069** Balancer Shaft.
 - Place lip of seal toward of balancer shaft and flat side toward **56052** Bearing.
 - Apply a small amount of Loctite #271 or equivalent on outside diameter of **57069** Balancer Shaft.



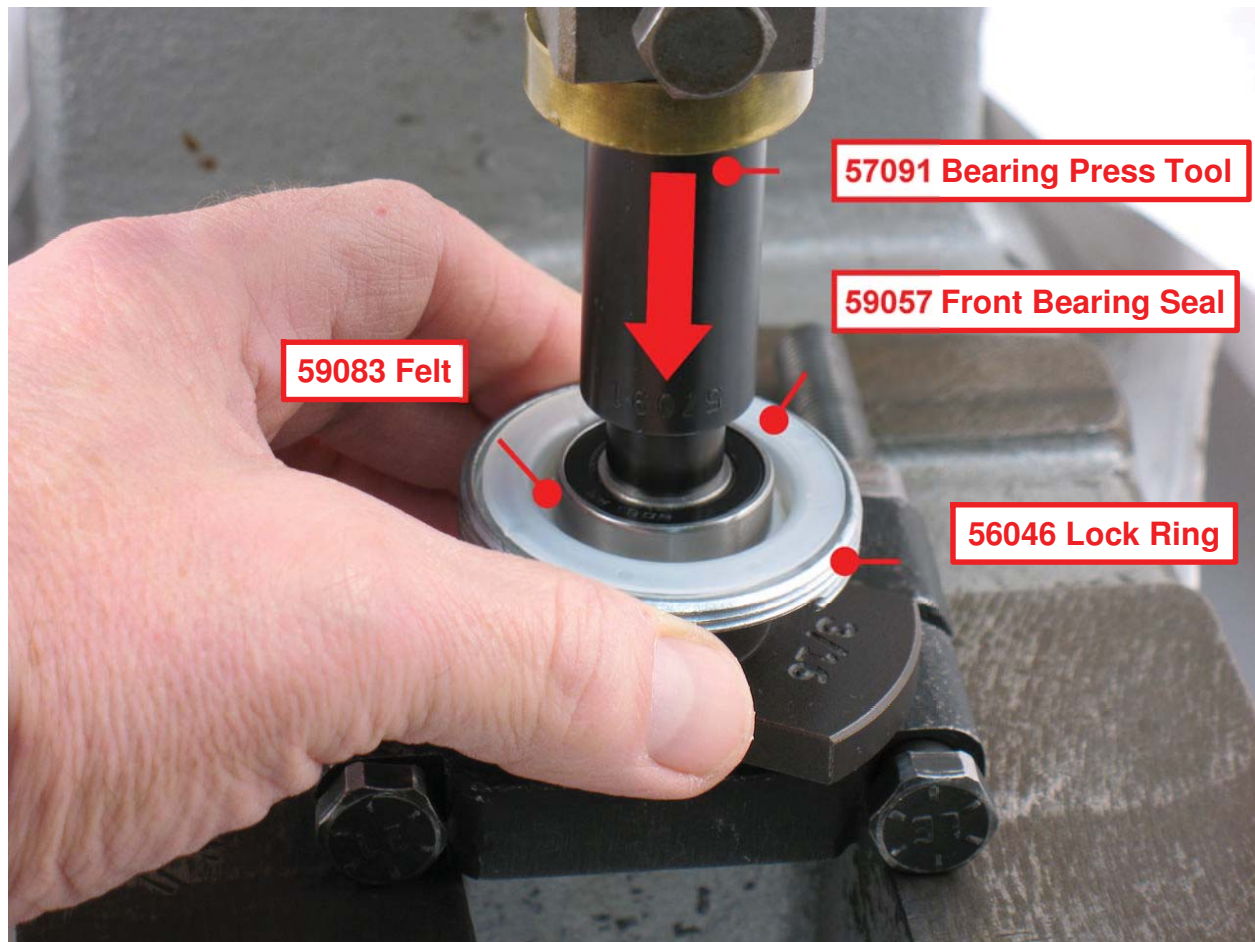
3. Use small diameter of **57091** Bearing Press Tool and **96232** Arbor Press (#2) to install **56052** Bearing (seal of bearing facing hex).
 - Press bearing tight to step on shaft.



4. Apply a small amount of Loctite #271 or equivalent to outside diameter of **56052** Bearing.
 - Install balancer shaft with bearing into motor shaft balancer.



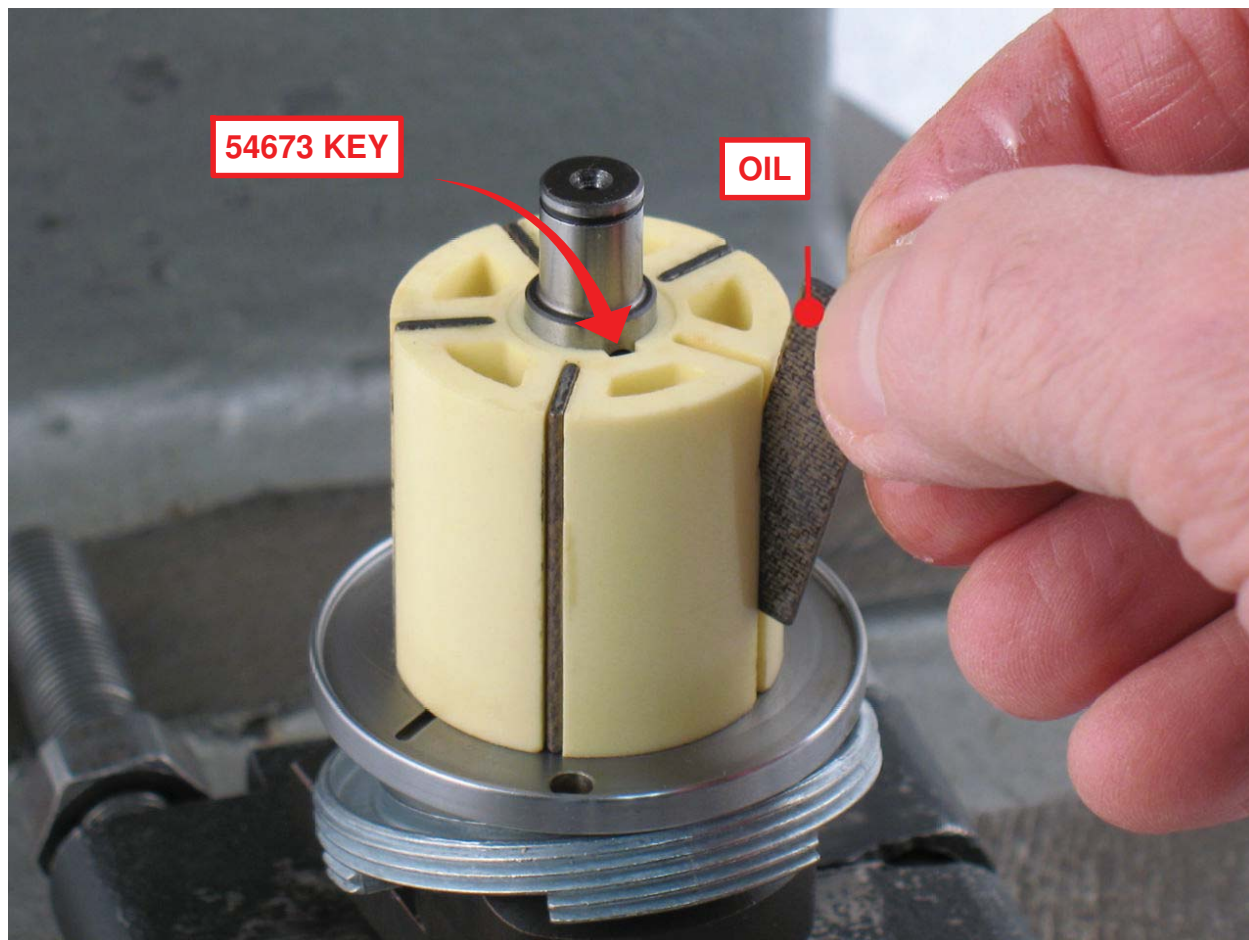
5. Use a small flat-bladed screwdriver to compress **95630** Snap Ring into groove.



6. Install **56046** Lock Ring onto shaft balancer. Place **59083** Felt into **59057** Front Bearing Seal and install onto shaft balancer.
 - Use small end of **57091** Bearing Press Tool to install **02695** Bearing.



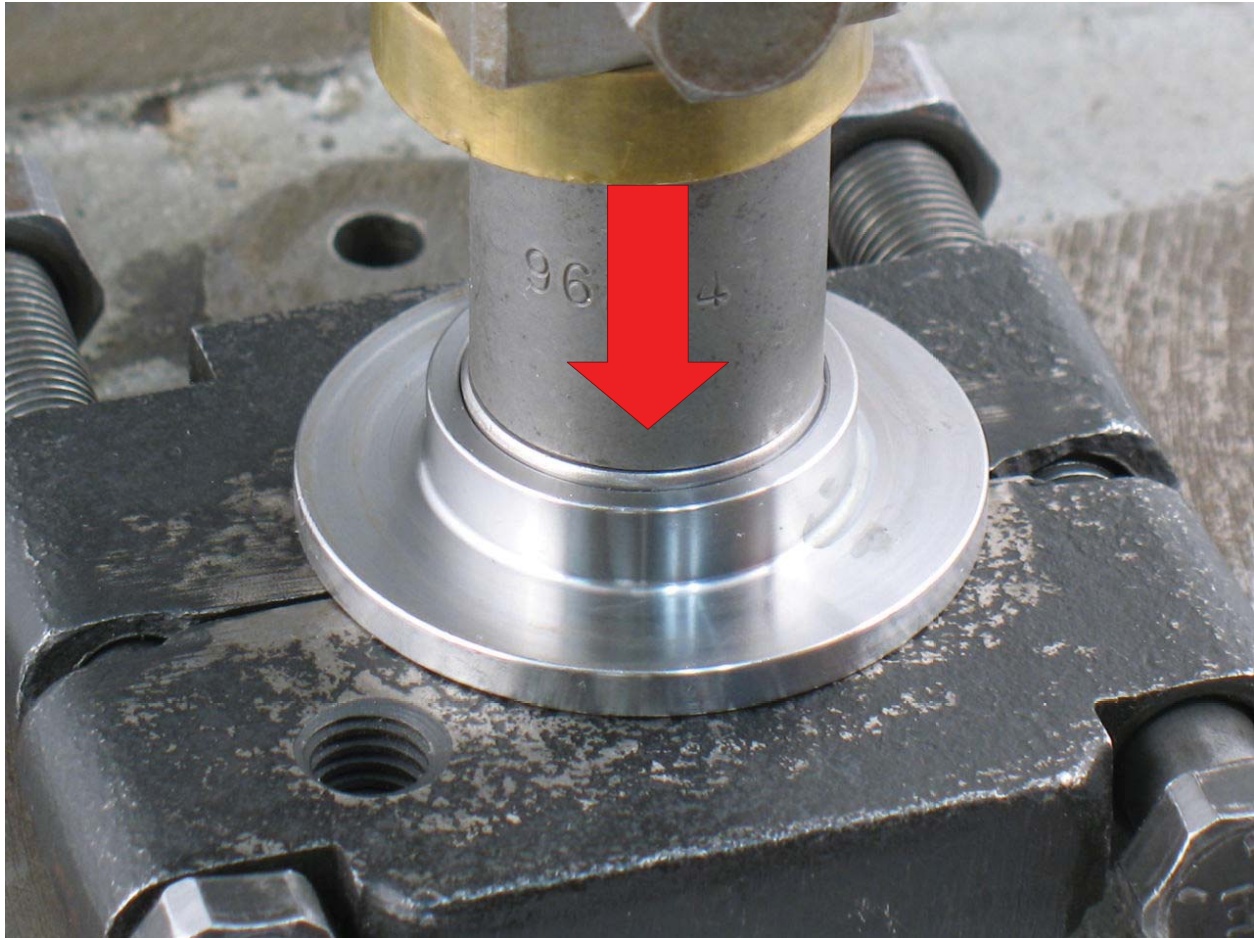
7. Use the larger end of **57091** Bearing Press Tool to install the **54630** Front Bearing Plate. **Notice:** Carefully guide lock ring and **59057** Seal to fit properly with plate.



8. Install **54673** Key and rotor onto motor shaft balancer.
 - Apply **95842** Dynabrade Air Lube 10W/NR or equivalent to vanes and install.



9. Apply clean grease or viscous oil to **95911** O-Ring and install in cylinder.



- 10 Use the ***Raised Outside Diameter*** of the **96244** Bearing Press Tool to install **01206** Bearing.



11. Use ***Raised Inside Diameter*** of the **96244** Bearing Press Tool to install bearing and plate onto the motor shaft balancer. **Notice:** Carefully press bearing and plate down until it **just touches the cylinder**. This will produce a close fit between the bearing plates and cylinder.



12. Install **95626** Retaining Ring into groove on shaft.



13. Sight line-up pin with the hole on inside of housing and install motor.



14. Invert sander and place **57092** Repair Collar around housing. Fasten sander in vise with counterweight pointing up. **Notice:** Do not over tighten sander in vise or it will be difficult to install **56046** Lock Ring.
Use **56058** Lock Ring Wrench to tighten lock ring. Turn clockwise.
(T to 34 N•m/~300 lbs. in.)
15. Install shroud.
Use **50679** Wrench to hold balancer shaft stationary.
Install sanding pad. Turn pad clockwise.

Motor assembly completed.

Vacuum & Exhaust Assemblies:

To identify vacuum and exhaust components refer to exploded view and parts list found in tool manual.

Tool assembly completed.