Disassembly Instructions - 0.4 hp. Air Motor (Straight)

Important: Use these instructions along with the tool, parts page or manual.
Notice: To avoid damage to the motor housing, use the Special Repair Tools designed for the disassembly and assembly of this motor.
Disconnect the tool from the air supply. Use the appropriate wrenches to hold the work spindle stationary and remove the accessory.

Motor Disassembly:
1. With the tool spindle pointing up, fasten the **01578** or **94523** Inlet Adapter in a vise with aluminum or bronze jaws.

2. Use the **50971** Lock Ring Tool to remove the rear exhaust cover or planetary housing. Turn counterclockwise.
   Notice: For angle head models use the **97782** Lock Ring Tool to remove the planetary adapter/gear case.

50971 Lock Ring Tool

Notice: If the **01578** or **94523** Inlet Adapter loosens before the rear exhaust cover or planetary housing, remove the inlet adapter, muffler and valve parts. Fasten the **96399** Hex Key (12 mm) in the vise with the notched end pointing up.

P/N 96399

Place the air inlet of the **45305** Housing Core onto the **96399** Hex Key. Line-up notch with the **97045** Pin. Use the **50971** Lock Ring Tool to remove the rear exhaust cover or planetary housing from the **45305** Housing Core. To disassemble the muffler and valve components, refer to, and follow the exploded view instructions found in the parts page or tool manual.

3. Remove the motor from the housing.

4. Carefully hold the tool spindle or pinion in the vise with aluminum or bronze jaws so that the governor is pointing up.

5. Use a slot-blade screwdriver to remove the governor. **LEFT HAND THREAD** Turn clockwise.

Notice: The governor assembly is not serviceable. If the governor fails, it must be replaced as a complete assembly. (No governor on 35,000 RPM models.)

6. Fasten the **96346** Bearing Separator (2") around the **01476** Cylinder. Place the bearing separator and the motor in the **96232** Arbor Press (#2) with the tool spindle pointing down.
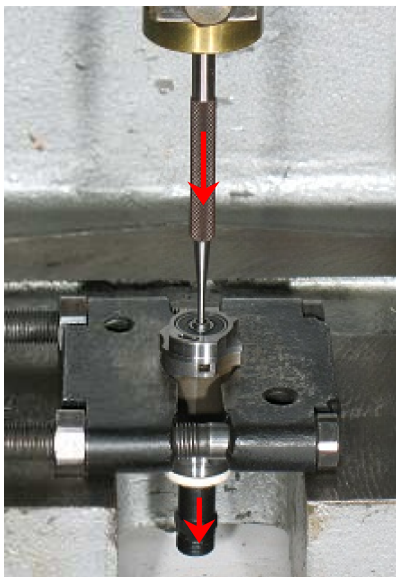
7. Use a 3/32" (2.38 mm) diameter flat-end drive punch as a press tool to push the rotor out of the **02696** Bearing.

8. Remove the cylinder and vanes.

9. By hand, use the 3/32" (2.38 mm) diameter flat-end drive punch to push the **02696** Bearing (slip-fit) out of the **02676** Rear Bearing Plate.

10. Use a wrench to remove the **01435** Collet Body or pinion. Remove the **01478** Front Bearing Plate, **02649** Bearing, shims, and **01479** Spacer. Turn counterclockwise.
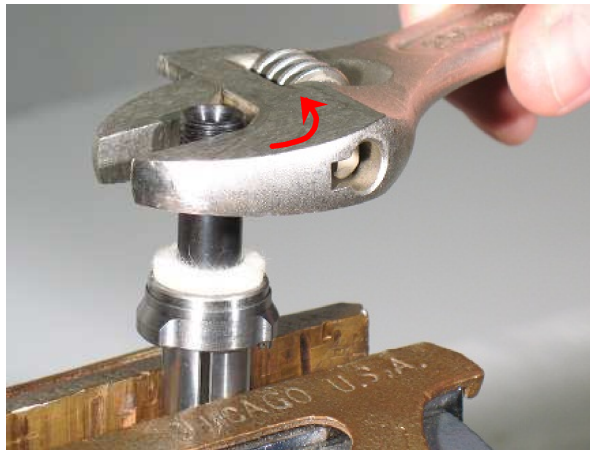
Notice: Planetary gear models, use the arbor press to remove the front bearing and plate.

Press Ram

Motor Disassembly Complete.

Important: Clean and inspect parts before assembling.