

003" (~0.08 mm) shim

01479 Spacer

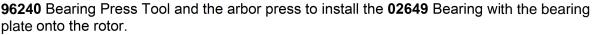
Assembly Instructions - 0.4 hp. Air Motor (Straight)

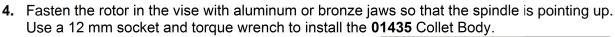
Motor Assembly:

- 1. Install the **01479** Spacer onto the rotor.
- 2. Select .003" (~0.08 mm) shim thickness from the **54529** Shim Pack. Install shims in the **01478** Front Bearing Plate.
- Install the 02649 Bearing into the front bearing plate and onto the rotor.

(**T** to 17 N•m/~150 in. lbs.)

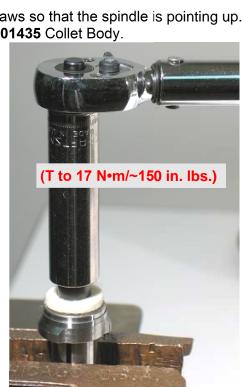
Notice: Planetary geared models use the **RAISED CENTER** of the





- **5.** Pull the front bearing plate forward to take play out of the bearing. Use a .001" (~0.03 mm) thick feeler gauge to check the clearance between the bearing plate and rotor.
- **6.** Clearance should be .001"-.0015" (~0.03-0.04 mm). **Notice:** Repeat steps 2-5 If clearance needs further adjustment. Install or remove shims as required.





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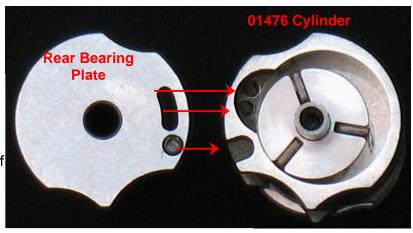
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- 7. Use Dynabrade Air Lube **95842** 10W/NR (or equivalent) to lubricate the **01480** Vanes. Install the vanes in the rotor.
- 8. Install the 01476 Cylinder and the 02676 Rear Bearing Plate so that the air inlet openings line-up.
- Position the 02696 Bearing onto the bearing journal of the rotor.
- 10. Use the RAISED CENTER of the 96242 Bearing Press Tool and the arbor press to install the 02696 Bearing onto the rotor, and into the 02676 Rear Bearing Plate.



IMPORTANT: Carefully press the bearing <u>until the plate just touches the cylinder</u>. This will establish a "snug-fit" between the bearing plates and the cylinder.





Complete Motor Assembly

Notice: The rear bearing should sit below the outside surface of the rear bearing plate.

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11. Apply a small amount of Loctite #243 (or equivalent) to the threads of the governor assembly and carefully install the governor onto the rotor. **LEFT HAND THREAD**Turn counterclockwise. (**T** to 0.7 N•m/~6 in. lbs.)





- **12.** Fasten the **96399** Hex Key (12 mm) in a vise with aluminum or bronze jaws so that it is pointing up. Place the **45305** or **45307** Housing Core onto the 12 mm hex key so that the air inlet is pointing up.
- **13.** Refer to the parts page or tool manual and follow the exploded view instructions to assemble the muffler and valve components.
- **14.** Install the **01564** Air Control Ring onto the **01578** or **94523** Inlet Adapter and apply a small amount of Loctite #567 to the male threads of the inlet adapter.
- **15.** Use a torque wrench to install the inlet adapter. (**T** to 28 N•m/~250 in. lbs.)



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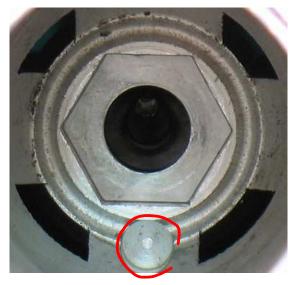
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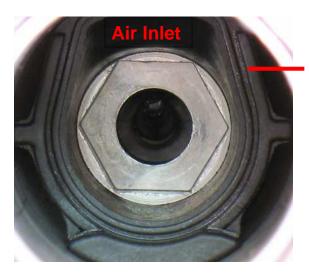


17. Install the 45320 Governor Chamber.

 Line-up the 45320 Governor Chamber pin with the hole on the inside of the 45305 or 45307 Housing Core.



The 45320 Governor Chamber installed in 45305 or 45307 Housing.



18. Carefully line-up and install the motor assembly.



Motor Assembly Complete.

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