



# Mach 3 Air Motor — Reassembly

## Reassembly



Oil is the lifeblood of any motor. Not only does it lubricate moving parts, it dissipates heat and prevents corrosion. The quality of oil is equally important ... too little, too thin or too thick will either reduce performance or motor life. Use only [Whizard® Food Grade Multipurpose Lubricating Oil Part #103603](#) (Whizard® Oil) as a high quality, long-lasting lubricant that will protect your trimmer investment.

## Lubricate and Reassemble Air Motor

1. Saturate vanes with [Whizard® Oil](#) before assembly.
2. Insert the vanes with the curved side toward the rotor center.
3. Slide the cylinder over the rotor and add a small amount of [Whizard® Oil](#) around the top of the rotor assembly. Note: The alignment pin in the bearing plate inserts into the alignment hole in the cylinder. Make sure the exhaust notches line up.
4. The upper bearing plate is installed by first inserting the alignment pin of the lower bearing plate into the alignment hole in the base of the assembly tool fixture.
5. Place the upper bearing plate onto the cylinder and then the bearing. Using a hammer and the bearing tool, tap the bearing tool until the bearing plate is fully seated on the cylinder.
6. The air motor is now assembled and the shaft should rotate freely.



## Performance Tip



- Use one FRL for each trimmer.
- Constant 90 psi (6,2 bars) at a volume of 14 cfm (396 lpm).
- Filter bowls should be drained and lubricator refilled daily.
- Oil should be set for three drops per minute of Whizard® Oil for proper lubrication and protection.



1

**Saturate vanes and insert in rotor, curved side towards rotor.**



2



3

**Add a small amount of Whizard® Oil and then place in the maintenance tool block.**



4



5

**Using the bearing tool and hammer, tap bearing onto cylinder. Make sure notches are aligned (note circle).**



**Assembled Motor**