ALL IN ONE MANUAL

• OPERATIONS
• ASSEMBLY
• CLEANING
OPERATIONS

The following steps outline the process for operating your M108. You can also view videos of these steps on our website in the Mobius Academy.

STEP 01.
Check to see that all 3 variable speed knobs are pressed in and turned all the way to the left (counter clockwise).

STEP 02.
Ensure that all 4 casters are in the locked position.

STEP 03.
Make sure that the red stop button is in the released position (pulled out), then plug the M108 in by inserting and twisting the plug.

STEP 04.
Ensure that the Tumbler air pressure is between 130 and 140psi.

STEP 05A.
If using conveyors, place your conveyor sensor override puck on the bumpers.*

STEP 05B.
Otherwise, install your input hopper and output chute.

STEP 06.
Check that all the blue safety lights on control panel are off, and ensure the hexagon guards are in place and secured with the set screw on the bottom of the frame.

STEP 07.
Now you’ll want to press the green START button.
To shut down, press the red stop button in. The LED lights in the lid will turn red. When restarting from here, the operator can simply release the red stop button and then press the green button. All previous settings will resume.

When the Trim Tote is full, the Mobius will automatically shut off and the working lights in the lid will turn red indicating there is a fault. Empty the Trim Tote (refer to Step 4 in Assembly section) and resume trimming by pushing the green button.

STEP 09.
Turn the separator fan / tri-flex blades / tumbler on by pulling out each knob and adjusting to desired setting.

Start feeding plant material into the input hopper while watching the output to determine how fast to feed the hopper. (Note: to achieve a faster pass through the tumbler, increase the feed rate, increase the tilt angle, or a combination of both.)

STEP 08.
Lower the tilt lift legs so they just touch the floor.
ASSEMBLY

Disassembly and assembly of the Mobius Trimmer M108 is easy, and requires no tools. Follow along in this step by step document as we show you how it’s done.

STEP 01.
Notice the holes on the top of the fan housing assembly. These correspond to the rails on the bottom of the unit. Slide the fan housing back into place on the rails.

STEP 02A.
Keep a good grip until just before your hand is going to get pinched, then slide it the rest of the way making sure it’s sitting on the guide rails at the top.

STEP 02B.
Lift up on the separator lever to lock it into place.

STEP 03A.
Next, you’ll slide the Trim Tote back into place on the separator.

STEP 03B.
A good tip here- brace the Trim Tote with your knee while you pull up on the levers to lock it into place.

STEP 03C.
Plug in the Trim Tote sensor wire to the body of the M108. Take note- the plug is NOT omni-directional.

STEP 04A.
Next, we’ll install the AirThread Tension Tumbler. The smooth end goes in first. Slide the tumbler through the lid.

STEP 04B.
The small fin on the end of the tumbler will fit just under the schrader valve.
Replace the first blue tumbler retaining ring. A tip: pull the tumbler towards you with your fingers on the inside, while rotating the bracket with your thumbs.

Next replace the helical blades. The gear side of the helical blades will fit the gear side of the machine. Make sure they are seated properly.

Rotate the tumbler so that the wires are as straight as possible.

Then, you'll replace the spacer bars...

Attach the second tumbler retaining ring.

... and the bedknives. Each one has a pin on one side, that will only allow them to be installed one direction. Remember, there are no bolts required and no adjustments necessary.

Attach your pump to the schrader valve. Give it two or three pumps, then rotate the tumbler back and forth 2-3 times, to ensure that the bearings will run smoothly. Inflate the tumbler to between 130 - 140 psi.

Next, snap the tumbler brush back into place, and close the lid.
That’s it! A complete assembly of the M108. You can always review the Disassembly page for a video and downloadable step-by-step document.

If you have any questions about this process, don’t hesitate to get in touch with us, or view some of the other guides and videos we’ve made available in our Mobius Academy training site.

<table>
<thead>
<tr>
<th>STEP 11.</th>
<th>Pop the screens back into place on the front and back of the M108.</th>
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</thead>
</table>

![Image of the M108 with screens being popped back into place]
The following steps outline the process for disassembling and cleaning the M108. Remove each of the items in the following order. Refer to Assembly instructions for tips on removal. You can also view videos of these steps on our website in the Mobius Academy.

**STEP 01.** Unplug the M108.

**STEP 02.** Remove the hexagon guard screens (remove set screw on bottom of frame) & tumbler brush from the lid assembly.

**STEP 03.** Unplug the lid assembly, then push the 2 latches inward to release and rotate to a fully open position.

**STEP 04.** With 2 people, rotate the lid assembly slightly back towards the closed position, then pull up to release the clasp on each side of the assembly.

**STEP 05.** Remove the blade bars and spacer bars, then remove the helical blades.

**STEP 06.** Make sure the Trim Tote sensor is unplugged, then remove the separator.

**STEP 07.** Remove the fan housing.

**STEP 08.**
**CLEANING**

- Pre-cleaning: set up a cleaning area with wash tubs, racks and, if available, a pressure washer.
- Soak the blades, screens, brush and tumbler in a solution of hot water and degreaser for about 15 minutes.
- Remove the separator, trim tote and fan housing and spray with diluted degreaser. Let sit for about 15 minutes.
- While the removable parts are soaking, wipe down the Mobius body with degreaser, followed by a water wipe.
- Rinse the removable parts with a pressure washer. DO NOT pressure wash the body of the Mobius.
- If required by SOP, perform swab tests on plant-touching surfaces. If any parts do not pass, either re-clean as per previous steps or wipe down with a sanitizer. Isopropyl wipes can be used for this purpose on all surfaces with one exception: do not apply isopropyl to the tumbler end caps for tumbler models D and earlier. Tumbler models E onwards are safe to sterilize.
- Allow clean parts to dry and reassemble the machine.

**DO**
- Use a diluted degreaser and warm/hot water to perform the initial clean

**DO NOT**
- Apply isopropyl to tumbler models A, B, & C
- Tumbler models D onwards are safe to sterilize with iso.
- Pressure wash the body of the Mobius

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**COMPONENT**

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>SPECIFICATION / REQUIREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vacuum Motor</td>
<td>5 HP</td>
</tr>
<tr>
<td>Cutter Motor:</td>
<td>0.75 HP</td>
</tr>
<tr>
<td>Tumbler Motor:</td>
<td>1/8 HP</td>
</tr>
<tr>
<td>Electrical Requirements</td>
<td>Single Phase: 240V, 30 amps.</td>
</tr>
<tr>
<td></td>
<td>Three Phase: 208V, 22 amps.</td>
</tr>
<tr>
<td>Mobius Power Receptacle</td>
<td>Three Phase: L15-30R</td>
</tr>
<tr>
<td></td>
<td>Single Phase: L6-30R</td>
</tr>
</tbody>
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If you have any questions, don’t hesitate to give us a call or email us and we’ll help walk you through the processes described in this manual.

You can also view videos of these steps on our website in the **Mobius Academy**.