

UNCRATING THE M108S

So you've received your new Mobius Trimmer M108S, and you're ready to uncrate it and get trimming. This guide will show you everything you need to know.

STEP 01



Start by removing the screws from the crate lid and set the lid and screws off to the side.

STEP 02



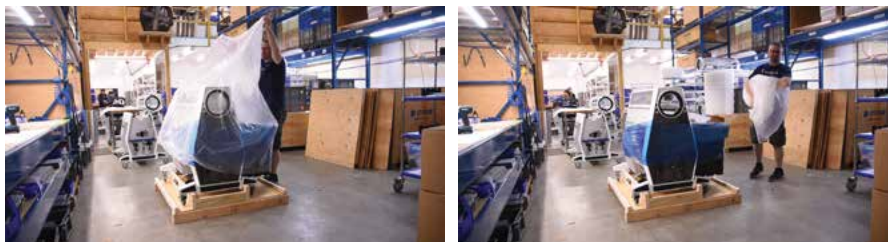
Next, remove one side panel.

STEP 03



Inside the crate you'll find 2 boxes containing the hopper and chute. Remove and set them aside for later. Now, remove the remaining 3 side panels.

STEP 04



Pull the protective plastic off the M108S and retain it for future use.

STEP 05



Remove the blue plastic wrap holding additional components to the body of the machine: the Spring Jack Tool, an extra Trim Tote, and a piece of foam which can be placed on the floor and used for upcoming steps.

STEP 06



Pull up on the levers holding the installed trim tote in place and rotate them downwards. Slide the trim tote out and set it aside.

STEP 07



Push the 'hockey stick' lever down. Slide the separator out until you see a gap. Place your hand in the gap, and pull it the rest of the way out. Set it flat side down. For more in depth instructions, see the [Academy video on separator removal](#)

STEP 08



The fan housing rests on 2 pegs. Slide it towards the open area where the separator was to remove it. Place it on the foam sheet as well.

STEP 09



To remove the lid, start by sliding the 2 latches towards each other, and then rotating the lid away from you.

STEP 10



Disconnect the wire between the lid and the M108S body.

STEP 11



With two people, you want to slowly rotate the lid towards the closed position while pulling up on it.

STEP 12



When it gets to the right position, you'll feel it release and you can lift it away from the machine. Place the lid off to the side. For more in depth instructions, see the [Academy video on lid removal](#).

STEP 13



Next, remove the 3 blade cartridges.

STEP 14



Simply slide the bed knives and spacer bars off the helical blades and place them to the side, preferably in our blade racks specifically designed to house the cartridges when not in use.

STEP 15



Gloves should be worn when handling the helical blades as they're heavy and quite sharp. Simply lift each blade from the body of the machine and set it aside on a rack. For more in depth instructions, see the [Academy video on blade removal](#).

STEP 16



To remove the anchors, start by unlocking the wheels and rotating them to the front.

STEP 17



You'll need a $\frac{3}{8}$ nut driver to remove the 2 screws per wheel.

STEP 18



Remove the wooden brace, protective foam, and tape. Repeat this step for the other three wheels.

STEP 19



Rotate the handles outward, and have 3 friends assist you lifting it off the crate-base. Lift the machine straight up to clear the wooden anchor below each wheel. Relock the wheels and remove the power cord that was beneath the machine.

STEP 20



You're now ready to begin reassembling the M108S to get it ready for trimming. Be sure to lock all 4 casters before beginning.

Wearing gloves, place each helical blade into its housing in the body of the M108S. You'll notice that the blades have a gear only on one side. These gears correspond to the gears on the outfeed side of the machine.

STEP 21



The spacer bar sits on the far side of the helical blade, and the bed knife sits on the near side. Each has a pin on the left side which corresponds to the gear side of the machine.

STEP 22



Slide each bed knife and spacer bar into place around the helical blades.

STEP 23



To replace the lid, place the lid hinge on the body hinge

STEP 24



Slowly rotate the lid forward as though you were closing it. You'll feel the lid slide forward into the body hinge.

STEP 25



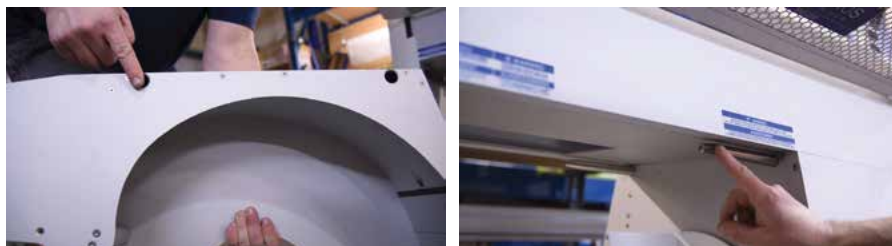
Now, slowly rotate the lid backwards in the opening direction. The lid should lock in the rest of the way.

STEP 26



Reconnect the lid wire to the M108S body and close the lid.

STEP 27



The fan housing fits into the body by resting on 2 pegs. The holes in the fan housing correspond to the pegs on the body.

STEP 28



Line the holes up with the pegs and slide the fan housing into place. Make sure the housing sits flush against the body. A crooked fan housing can make it difficult to install the separator.

STEP 29



You'll notice a guide rail on the side of the separator which corresponds to a rail on the inside frame of the machine.

STEP 30



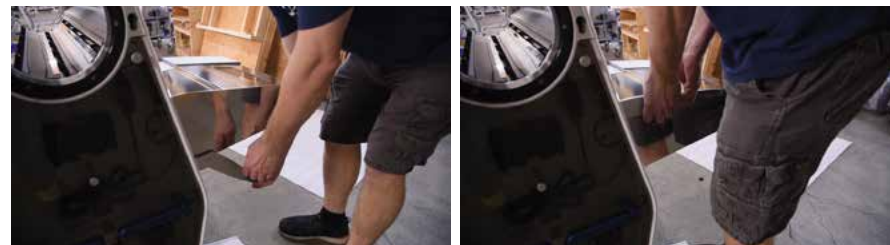
Line the separator up so that it sits above the rail on the machine, and start pushing it into the machine. When you are just about to pinch your fingers, the guide rail should be supporting the weight of the separator.

STEP 31



Remove your hand and slide it in the rest of the way.

STEP 32



To lock the separator in place, pull the hockey stick lever up with a bit of force so that the top of the stick is flush with the top of the separator.

STEP 33



To install the Trim Tote, slide it on the rails of the separator with the warning symbol going in first.

STEP 34



Swivel the latches towards you slightly and up so that it raises the Trim Tote and seals off the gasket, locking it in place.

NOTE:

The 2nd Trim Tote contains:

- 2 AirThread Tension Tumblers
- 1 fan housing filter bag
- 2 replacement E-box filters
- 2 blue tumbler retaining rings
- Documents:
 - 6-Point blade inspection,
 - Tumbler inspection,
 - E-box filter installation,
 - Tumbler installation.
- 2 tandem locks (to link 2 machines) and 2 override pucks (for use with conveyors instead of the hopper & chute) can be found in the caddy behind the side panel.



STEP 35



With the lid in the closed position, remove the front screen by pulling the latch on the underside of the lid to the right while pulling the left side of the screen towards you.

STEP 36



Pop the brush out and set it aside. Now you'll install the AirThread Tension Tumbler into the lid.

STEP 37



Open one of the boxes containing the AirThread Tension Tumbler and remove it from the bag. Keep the bag for storage if you'll have long periods of time between trim sessions.

STEP 38



Open the lid and slide the tumbler through, making sure that the plastic fin lines up with the groove.

STEP 39



Next up is the blue tumbler retaining ring on the infeed side of the machine. Put it on the end of the tumbler and twist to the lock position. If you see silver on the tabs of the tumbler retaining ring, it is not in the locked position.

STEP 40



Unpack the Spring Jack Tool, and insert the handlebars into the receptacles on the infeed side of the lid.

STEP 41



Leaning in with your weight, turn the handles inward to lock.

STEP 42



Turn the air-release valve on the Spring Jack to the closed position. The handles and the air-release valve should be in a straight line.

STEP 43



Attach your compressor hose to the Schrader valve on the Spring Jack and pressurize to 80 PSI.

STEP 44



The tumbler retaining ring should be pushed in past the edge of the lid. Be careful not to over inflate the Spring Jack. 100 PSI or more can damage the unit.

STEP 45



On the outfeed side, lock the tumbler retaining ring by putting your fingers just inside the tumbler, pulling it towards you, and rotating the ring with your thumbs. **An improperly installed tumbler retaining ring can result in operator injury or damage to the tumbler.**

STEP 46



Straighten the tumbler cables as much as possible.

STEP 47



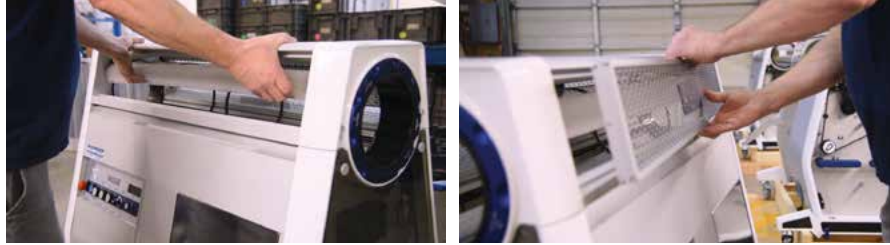
Now, on the Spring Jack, turn the air-release valve to the open position. This will release the air to apply tension to the tumbler. You'll see the cables of the tumbler pull tight.

STEP 48



Rotate the handles of the Spring Jack outwards to release from the lid. Make sure the tumbler rings are in the locked position, the tumbler is under tension, and can rotate freely. Now, close the lid.

STEP 49



Install the brush bar by pushing it into the receptacles on either side of the lid. Both sides of the brush bar are identical so it can be installed in either orientation. Re-install the front screen

STEP 50



With the lid closed, perform the **6-Point Blade Inspection**: check to make sure that the space between the tumbler wire and each bed knife is the same. The M108S is ready for safe operation when all blades are fully seated in their channel.

STEP 51



Remove the Fan Housing Filter Bag from the plastic sleeve. The top has a metal retaining ring that fits into the fan housing by sitting on a rail.

STEP 52



Slide the retaining ring up into the housing past the rail and allow it to fall into place. Give it a slight tug to make sure it's seated properly.

STEP 53



Pull the rubber receptacle cover up. With the Quality Control decal on the power cord facing up, push the plug into the receptacle and rotate it to the right to lock it in place. The machine will power up, the control panel display will indicate errors detected, and the lid will glow red.

STEP 54



The Check Hopper and Check Chute errors will be displayed and the hopper and chute will also be illuminated on the visual indicator at the left of the control panel.

STEP 55



Install the chute on the outfeed side by inserting the lip on the upper side of the edge that connects to the machine and hook it into the ledge on the lid. Let it rotate down to connect to the machine.

STEP 56



When installed properly, the Chute Error will be cleared on the control panel.

STEP 57



Install the hopper on the infeed side in the same way as the chute, its opening facing up. Hook the lip into the ledge on the lid and rotate the base into place. The red light will turn blue when all errors are cleared, indicating the machine is ready to run.

STEP 58



If managing material infeed and outfeed by conveyor instead, the hopper and chute detection sensors must be bypassed. Attach an override puck to the right bearing blocks on each side of the machine to bypass the sensor.

STEP 59 + 60



You can now push the blue button to activate the machine. The colour of the lid will change from blue to white.

STEP 61



To adjust blade speed, tumbler speed and vacuum pressure, twist the dial to adjust speed and pull it out to engage the corresponding function. Turn each dial to the highest level, then dial back to achieve the trim quality you're looking for.

STEP 62



Gravity can be used to increase or decrease the rate at which material moves through the machine by adjusting its tilt angle. Rotate the tilt dial counter clockwise to increase the tilt angle and raise up the infeed side of the machine. The more aggressive the tilt, the faster material will flow. Turn the dial clockwise to lower the tilt angle and reduce the flow rate.