



MicroRocker Instruction Manual

© Magenta LLC. 2021

Using the Vessels

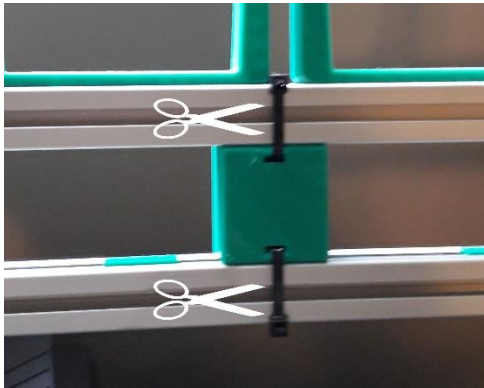
Vessels can be used like a Magenta box or other reusable vessel with semi-solid or with liquid medium.

Always autoclave with the lids on and seal the edges with 3M Micropore tape or similar sealing film.

Setting Up the Rocker

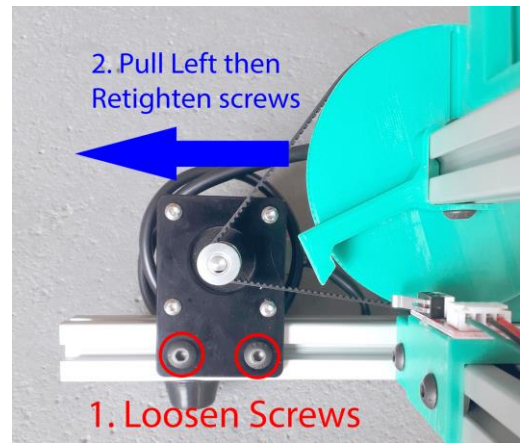
There are three steps to prepare your rocker.

1. Cut off the zip-ties from the center block.

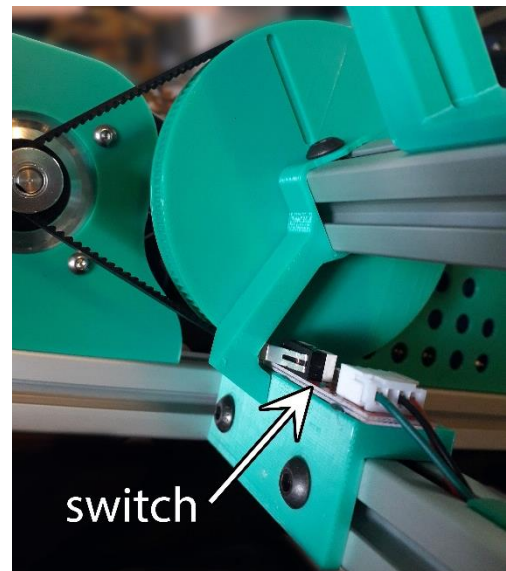


2. The toothed belt can become loose in shipping. To tighten it, use the provided Hex Key to loosen the screws holding the motor mount. Pull the motor mount away from the center of the machine so the rubber belt is pulled taut. While holding pulling, re-tighten the

screws.



3. Turn the wheel counterclockwise. Ensure the small switch clicks when the wheel reaches the end. You should hear an audible click.



Normal Rocking Mode

The MicroRocker has two operation modes. The first is normal rocking – leave the settings at their defaults:

Tilt Time	30 seconds
Left Angle	35 degrees
Right Angle	35 degrees
Left Park	0 minutes
Right Park	0 minutes

Fill vessels with 50mL to 100mL of liquid media. No substrate is needed. Autoclave, then place plants into the vessel. Place the vessels onto the rocker. *Photoblaster lights and Root Stands are optional.*



Place plants in the vessels, leaving a gap on one side.



When the rocker is level, the plants are immersed in liquid, and when the rocker is tilted to the left, the liquid media drains away from the plants.

Temporary Immersion Mode (Half Rocking Mode)

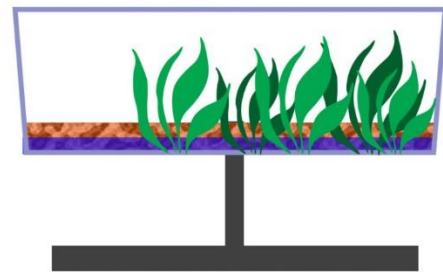


The MicroRocker can operate as a temporary immersion system similar to RITA, BIT or Twin-Flask systems. The setup is different than normal rocking mode.

Fill the vessels with a ~ 1.5 cm layer of Turface, Gravel, or Volcanic bonsai stone. Another autoclavable substrate may be used. This material will hold the plants in place during rocking.

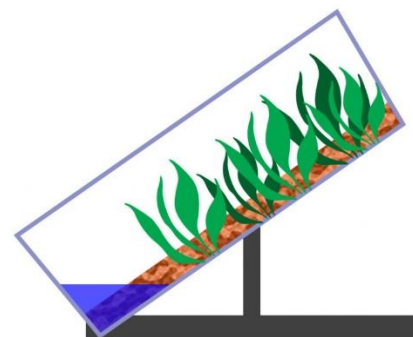


Add liquid media so there is 1-5mm of liquid media above the substrate. Autoclave the vessels.



Immersed

To make the rocker go level on one side, set the Right Angle to zero.



Drained

We will change the timing of the temporary immersion using the Park settings.

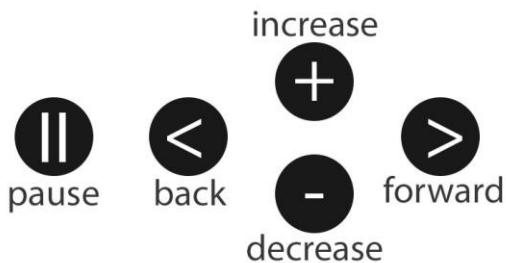
Example settings for Half Rocking are below:

Tilt Time	60 seconds
Left Angle <i>(immerse)</i>	0 degrees
Right Angle <i>(drain)</i>	35 degrees
Left Park <i>(immerse time)</i>	30 minutes
Right Park <i>(drain time)</i>	400 minutes

This will immerse the plants in liquid for 30 minutes, and then drain for 400 minutes. Adjust the Park times to change the length of immersion and drying.

Changing Settings

Use the buttons on the front of the rocker to change settings. Use **back** and **forward** to select setting, then use **increase** and **decrease** to change the value. Hold button to change faster.



NOTE: After a delay of 5 seconds after pressing any buttons in the menu, the rocker will save your settings then calibrate by quickly moving to one side until it clicks the small switch. It will then move to the other side, then begin running your set program.

Fine Tuning

The last setting in the rocker menu is Angle Offset. You can use this to make sure the rocker is perfectly flat when it is set to 0 degrees.

Screen Contrast

If the LCD screen is difficult to see, you can adjust the contrast. Use a small screwdriver to adjust the small screw in the hole in the top left of the electronics case.



Attaching Vessels

Slide the middle ridge on the vessels into the posts sticking out from the main shaft.



Troubleshooting

If you are experiencing any problems, please use the contact form at www.wevitro.com