

5 GALLON CASTING/COMPOST BREWING INSTRUCTIONS

D10 Assembly

1. Slide the open end of the straight pipe over the black 90° elbow located on the outside end of the plastic coil. It is best to place the coil on a table and push the straight pipe down with a firm grip (do not push on top ring). To seat the pipe all the way down onto the fitting you may need to tap it on a hard surface (see assembly video). This connection will be permanent.
2. The air hose comes pre-inserted into the pipe just below the top ring. This is a friction-fit connection, allowing the hose to be easily removed/replaced for cleaning.
3. Once assembled, place the aerator in a 5-gallon bucket filled with water. Secure the aerator in place by passing the bungee cord through the top ring and fastening it to both sides of the bucket. This prevents the aerator from floating during operation.
4. Connect the air hose to an air pump. **IMPORTANT:** Be sure to always keep the air pump a safe distance from the brewing bucket and at a height above the waterline.

For assembly instruction go to www.wormbrew.com/asm or scan the QR code

Brewing Instructions

When using chlorinated (city supplied) water, allow the aerator to run for 2 or more hours to 'off gas' the chlorine from the water before adding any ingredients.

Mix ¼ cup of unsulphured molasses into the bucket. This is best accomplished by stirring in a glass with water until dissolved. Use only unsulphured molasses.

Add 3 cups of castings/compost to the mesh tea bag and tie off to the ring on top of the aerator. Alternative method is to apply castings/compost loose into the bucket (additional cleaning needed later).

Place the bubbling bucket in a shaded area. Water temperature should be kept between 70°F – 95°F. The brew will not have an odor (except the smell of sweet molasses) and produces no dangerous gases. Brewing takes 20-24 hours and when complete the smell of molasses should no longer be detected. The tea is now ready and should be applied within 6 hours.

Application Instructions:

Remove D10 Aerator from brew and then turn off the air supply. From the time the air is cut off you have approximately 6 hours to distribute all the tea to your plants. This time is important to honor as **longer** periods cause the microbes to die as their huge population consumes both the remaining food and the oxygen provided by the bubbler.

Materials Needed:

- Aerator (D10)
- Commercial Air Pump (2.5psi or higher)
- 5 Gallon Brew Bucket
- Tea Bags
- Bungee Cord
- ¼ Cup Unsulphured Molasses
- 3 cups of worm castings/compost



(Pump not included in all kits)



SPRAYING: If applying via a sprayer, filter the tea by pouring through hosiery material or cheese cloth to eliminate clogs in the sprayer nozzle.

For spraying large areas it is best to dilute the tea with unchlorinated water. Dilution to any extent is fine as long as you cover no more than 1 acre with the diluted solution. This allows the sprayer to work best when distributing the microbes evenly. For most yards, diluting is not required and the tea can be applied at full strength without any danger to plant growth.

When spraying, attempt to apply tea to both the top and bottom of leaves. The best time for spraying is during early morning or late afternoon when the sun is less intense.

Do not water directly after spraying. This gives the tea microbes time to adhere to the leaf surface or proceed into the plant as determined by their specific purpose.

SOIL SOAK: Filtering is not required if applying as a soil soak. Simply pour the tea around trees, large shrubs, potted plants, or trouble areas.

Clean Up

To clean the aerator, hold the lower coil in one hand and twist the vertical pipe back and forth to remove (see video www.wormbrew.com/asm). Flush the aerator coil by pouring water in the open end, shaking it, and pouring it back out. Pull the air hose out from the hole below the top ring. Rinse the pipe with water. Allow both pieces to air dry before re-assembling. **Optional:** remove the set screw at the coil end and pull the end plug out. If the end plug is stuck, use a twisting motion or pliers to remove.

If you didn't use tea bags, use the residual organic material on the bottom of your brewer bucket by placing it around plants as you would dry worm castings. Thoroughly clean out the tea brewer and its contents after each use with water to prevent harmful bacteria from forming. Remove any "bio slime" from the walls inside the brew bucket and let brewer air dry in sunlight. If unable to remove "bio slime", peroxide can be used to clean the brewer. If you use these products, be sure to let brewer dry before brewing again.

Trouble Shooting

Why did the tea go bad? If your tea has a foul odor, do not use the tea. It may have become anaerobic and harmful to your plants. Anaerobic microbes form in the presence of no oxygen, and they are harmful and foul smelling. When you follow the directions above, you should not experience this problem unless you left the brew for over 6 hours without the bubbler running. However, if you ever detect a foul odor, pour out the tea and do not use the residual organic material. Clean the brewer as instructed, let it dry in the sun, and then use it confidently again for a new batch.

Things to Consider:

Is the water temperature between 70°F – 95°F?

If using chlorinated water, was the water off gassed?

Did you use unsulphured molasses?

Did you use 3 cups of worm castings/compost?

Did the air pump turn off or become disconnected for a long period of time?

Was the brew left in direct sunlight?

Was the brewer properly cleaned properly after previous use?

Was the brew applied within 6 hours of removing the air pump?