

EZ TRIM HARVESTING

WANDER TRIMMER – INSTRUCTIONAL MANUAL

INTRODUCTION

(PLEASE WATCH INSTRUCTIONAL VIDEOS AT WWW.EZTRIM.COM)

The Wander Trimmer combines the precision of hand trim with the efficiency of a commercial leaf trimmer. The Wander Trimmer will cut 60 - 80% of your trim time, won't damage your flowers, collects all of your clipped leaf for processing and allows you to hang-dry your plants.

The Wander Trimmer connects to any wet/dry vacuum (although we recommend the bucket head). The suction from the vacuum pulls the leaf away from the flower while the blade inside the wand spins and cuts the leaf. The speed of the blade and the suction from the vacuum can be adjusted to accommodate different strains, and trimming crow's feet is a breeze. The Wand can trim 1 lb./hr in dried weight and often said that it trims better than scissors.

Use and Maintenance

1. Parts
 - a. Wand assembly
 - i. Handle x 1
 - ii. Off-set tube x 1
 - iii. Cutting blade x 1
 - iv. Idle hub x 1
 - v. Driver hub x 1
 - vi. Idle hub housing (cap) x 1
 - vii. Driver hub housing x 1
 - viii. Vacuum hose attachment
 - ix. Bearings x 2
 - b. Control box with motor x 1
 - c. Flex shaft cable x 2
 - d. Flex shaft sheath x 1
 - e. Flex shaft connector x 1
 - f. Vacuum hose x 1
 - g. Power cord x 1
 - h. Tool box x 1
 - i. Tube brush x 1
 - j. Flex shaft lubrication x 1
 - k. Maintenance kit x 1
 - l. Vacuum suction controller x 1
 - m. Velcro straps x 10
 - n. Sponges x 2

Assembly - (We recommend using a standard fold out table as your work surface)

1. Remove the tool box from the box
2. Remove the wand, motor, vacuum hose, vacuum suction controller and velcro straps from the tool box
3. Place the motor at one end of the table (on the right side if you are right handed and the left side if you are left handed)
4. Attach the wand to the end of the flex shaft cable by aligning the keyed end of the cable with the key at the base of the wand in the drive hub housing
5. Rotate the wand without pressing in to assist the keys alignment
6. Once the keys are aligned, continue rotating and press the wand down on the flex shaft until it clicks (the wand should rotate freely when it is connected to the cable)
7. Install the open end of the vacuum hose to the vacuum hose attachment on the wand (the first few times may take a little more effort)
8. Lay the vacuum hose along side the flex shaft cable and attach it to the flex shaft cable using the provided velcro straps, attach a velcro strap every 8-10 inches (zip ties can also be used)
9. Attach the other end of the vacuum to the hose on the wet/dry vacuum
10. Plug the vacuum power cord into the vacuum suction controller (do not plug the wand motor into the vacuum suction controller)
11. Plug the wand power cord into the back of the motor control box and into a power source
12. Open the sponges and place them in the rectangular compartments atop the tool box
13. Fill one of the rectangular compartments with the sponge with water until the sponge has absorbed the water and the reservoir is half full (this moist sponge will be used to lubricate the inside of the wand while trimming helping to reduce build up)
14. Moisten the second sponge, this sponge will be used to clean the outside of the wand tube near the cutting slot
15. Optionally you can purchase a small crock pot and fill it with water and heat the water (the crock pot can be used to dip the wand in while trimming to clean the internal build up)
16. The Wander Trimmer is now ready for use

Disassemble the Wand

1. Unscrew the idle hub housing (cap)
2. Unscrew the handle
3. Unscrew the driver hub housing
4. Slide the cutting blade out of the wand tube
5. Slide off the bearings from the hubs
6. Pull out the idle hub and driver hub
7. Remove the vacuum hose attachment by loosening the set screw and slide off (do not over tighten the set screw)
8. Reverse a-g to reassemble

Operation

- a. It's important to have a work space that will accommodate the components as well as allow you to keep the flex shaft cable and vacuum hose straight as you're trimming both for ergonomics as well as minimizing friction within the flex shaft.
- b. We first want to prep the plants for trimming. First remove the main branches from the stock, next individualize the stems from the main branch.
 - i. Now we will remove the fan or water leaves. This is typically easiest and quickest to do by hand and simply pulling the leaves down against the grain or plucking them out of the flowers.
- c. Now that we have our material prepped and stems individualized, take a cup of water and start to fill the reservoir atop the tool box, saturating the first sponge and continue to fill the reservoir until it's about $\frac{3}{4}$ full. The saturated sponge will be used to lubricate the wand as we are trimming. Dampen the second sponge we will use this sponge for cleaning the outside of the wand.
- d. For more information on the wand components and assembly please watch the wand assembly video. The cutting blade sleeves inside the tube and is off set from the center. This creates relief around the cutting blade, allowing the leaf matter to freely pass through the tube and into the vacuum hose. The blade is only tight to the tube at the cutting slot
 - i. Overtime build up will start to occur inside of the tube. To ensure an efficient trim session there a couple of methods we use to keep the inside of the tube clean.
 - ii. The first method is to give the wand a quick and light tap on the saturated sponge; this allows the suction to draw in a very small amount of moisture and helps to slow down the buildup process. Be sure to implement the sponge tap every few branches or so.
- e. Secondly, every 45 minutes to an hour depending on the strain, we will turn of the vacuum and with the motor running dip the wand into the crock pot. The current from the water will help clean out the inside of the tube. Turn the motor off and allow the water to drain from the wand through the hole in the cap.
- f. The last thing we will want to address as we trim is the buildup that will occur on the outside of the tube, turn the motor off and using the semi abrasive side of the damp sponge wipe off the buildup on the outside of the tube. This is something you will want to do throughout the trim session. It only takes a few seconds but will increase your efficiency tremendously.
- g. Now we are ready to start trimming. Turn on the motor and adjust the speed control to just above medium. Turn on the vacuum suction control and adjust the suction in between medium and high. You may need to turn the motor up for really sticky strains and turn the suction down for the smaller and more delicate strains. However, we recommend starting off with the motor on medium and the suction between medium and high
- h. As far as approaching the flower with the wand, we want to catch the leaf at the tip and allow the suction to pull the leaf into the cutting slot. This is easiest to do with a quick and light tapping, in a circular motion, like you are peeling a potato. As you become more comfortable with this technique, and the wand, the action can be sped up quite a bit and ultimately give you a 60-70% faster trim time over scissors.
- i. The wand is most effective when you trim the flowers wet and although the wand does allow you to trim after the flowers are slightly wilted, it's much more efficient when they are fresh and the leaves are sticking out.

- j. As you hold onto the stem slowly rotate the flower as you quickly and lightly tap it with the wand. Bend the flower away from the stem to trim the harder to reach areas.
- k. It helps to rest the flowers and the base of the wand on your work surface as you trim.
- l. To remove crow's feet or leaves at the base of the flowers, simply follow the leaf in from the tip and rotate the wand in.
- m. Adjusting the suction and cutting blade speed to accommodate the size and density of the strain, will give you the control to trim precisely and quickly without damaging your product.
- n. If you have another set of hands, it's best if one person preps the plants while the other trims
- o. Just remember give the wand an occasional crock pot dip, keep the outside of the tube clean and consistently tap the wand on the sponge.
- p. When you're done trimming or it's time to take a break. Hang your product to dry and empty out the clipped leaf from the vacuum. It's important not to let the clipped leaf overfill or sit in the vacuum for long periods of time. Simply empty out the vacuum and spread very thin over cardboard or some other material that will help wick away the moisture.
- q. If you are going to start trimming again and before you take your break we want to quickly clean the main wand components. This is easiest to do as soon as you're done trimming and while the plant matter is still fresh. Disassemble the wand and using the tube brush scrub the inside of the tube. Push a paper towel through the tube to remove any degree then wipe off the tube and vacuum connect. Next we will clean the blade. Be sure that you have thoroughly cleaned both the blade and tube and that all of the plant matter has been removed. Reassemble the wand and you're ready to start trimming again.
- r. It's important to clean the entire unit after each use. This is also easiest to do if you clean the unit as soon as you're done trimming and while the plant matter is still fresh. Please watch our Wand cleaning videos for more information.

Tips and Tricks

1. Keep the outside of the tube clean by wiping off periodically with the semi abrasive side of the damp sponge
2. Tap the wand ever so lightly on the wet sponge to keep the inside of the tube lubricated
3. Clean before the buildup dries
4. Purchase an extra tube, blade or complete wand assembly for a quick swap out while the other soaks

Cleaning and Maintenance

- a. These are the items you will need to perform a proper cleaning.
 - i. 2 containers
 - ii. HD simple green (purple)
 - iii. Denatured alcohol
 - iv. Tube brush
 - v. Sponges
 - vi. Paper towel or rags
- b. We recommend using 2 containers, 1 for soaking and the other for rinsing, as well as a toothbrush for cleaning the wand.
- c. Start by filling the first container with some heavy duty simple green, fill the second container with water as it will be used for rinsing.
- d. Disassemble the wand.
- e. If the blade is stuck inside of the tube because it had not been cleaned right after use, soak the tube and blade in some water and then using the driver hub and a hard surface, push the blade up through the tube and slide the blade out. Be sure to never use any tools to remove the blade.
 - i. Loosen the set screw on the vacuum hose attachment and place all of the wand components, excluding the bearings, inside of the simple green solution to soak.
- f. While the wand parts are soaking, spray and wipe clean the other components. Alcohol can be used to clean the tool box and motor control box. However, never use alcohol when cleaning the wand.
- g. Now using a sponge and paper towel thoroughly clean and wipe dry the bearings.
- h. Next we will clean the main tube. Scrub the inside of the tube with tube brush. You can also use a toothbrush, and implement both the bristle side as well as the plastic side to remove any stubborn build up. Scrub the outside of the tube. Rinse the tube in water, push a paper towel through the inside of the tube and wipe dry.
- i. Now we will clean the blade. Using the tube brush and or the tooth brush thoroughly remove all of the buildup on the inside and outside of the blade. Rinse and wipe dry.
- j. Clean the vacuum hose connect and the driver hub housing. Be sure to clean the threads on all of the wand components.
- k. When you have all of the parts cleaned, rinsed and dried, reassemble the wand. Make sure you don't over tighten the set screw on the vacuum hose attachment. Turn the unit on and verify that it is operating correctly.
- l. Now, Rinse out the sponges and the tube brush.
- m. To clean the vacuum hose, coil it in the bottom of a 5 gallon bucket. If using the bucket head, coil its hose on top. Add simple green and water at about a 1 to 12 ratio. After soaking, Rinse the hoses out with a garden hose or pressure washer.
- n. It's also important to keep the vacuum you are using clean and free of mold. Be sure to disinfect and wipe clean periodically. We also recommend that you replace the vacuum filter as necessary.
- o. The last thing to do is pack the unit back into the tool box. Place the motor inside the main compartment; tuck the hose under the flex shaft cable and along the side of the motor box. Coil the rest of the hose around the motor. Place the vacuum hose adapter, the vacuum suction control and the main motor power cord inside of the tool box. Place the wand and cleaning tube on the tray. The sponges, Velcro and Allen key are stored in the top compartments. If you have any additional questions please don't hesitate to contact us.

Specification

- o. Weight - 30 lbs
- p. Ship Weight - 40 lbs
- q. Assembled Dimensions - 20"L x 20"W x 10"H
- r. Ship Dimensions - 20"L x 20"W x 10"H
- s. Production (Single Operator) - 1 lb / 1 hour dried weight

Material Exposed to Product

- t. Aluminum 6061 - Food Grade
- u. Stainless Steel - Food Grade
- v. 5 gallon bucket - HDPE

UL Certified Components

- w. Main motor;
- x. Speed Controller
- y. Rocker Switch
- z. Power Cord
- aa. IEC Jack

Power

- bb. 120 or 240VAC
- cc. 60 HZ
- dd. 204 Watts
- ee. 1.7 Amps

Warranty and Technical Support

- ff. Ez Trim offers a 1 year manufacturers warranty - please keep record of the serial number
- gg. If you have any questions, comments, or need assistance with parts, operating tips or technical support please call (303) 635 - 6281 and dial extension 3. We are more than happy to answer any questions you might have, please do not hesitate to contact us. You will speak to a live person who actually wants to help you. We pride ourselves on our customer service.

1. DEFAN



Remove the fan/water leaves before drying and preferably 1-2 days before harvesting



2. HANG DRY



Dry the plants in a controlled environment to 50-60% ambient humidity

3. DEBUDDER



Remove the flowers from the stem while the flowers are still spongy and moist

4. INITIAL CURE



Cure the shucked flowers in sealed containers to 40-50% ambient humidity

5. EZ TRIMMER



Trim the dried leaves off and filter the trim, while the flowers remain spongy

7. FINAL CURE



Store flowers in sealed containers and burp every 24 hours for 20 minutes for no less than 5 days

6. BUD SORTER



Touch up and Sort the flowers into four different sizes and separate the shake



EZ TRIM HARVESTING

DRY TRIM Harvesting System From Shuck to Shelf

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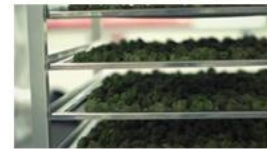
Touch up and Sort the flowers into four different sizes and separate the shake

6. CURE



Store flowers in sealed containers and burp every 24 hours for 20 minutes for no less than 5 days

5. TRAY DRY



Dry the flowers in a controlled environment at 60% humidity and 60-70 degrees for 5-7 days



EZ TRIM HARVESTING

WET TRIM Harvesting System From Shuck to Shelf