

Tray Washer Instructions




5/6/24

Minimum Requirements for Proper Operation:

You will need to supply a pressure washer with a minimum of 12,000 Cleaning Units (CU). To compute CU, multiply the PSI x GPM ratings of the pressure washer unit. (See our recommendations on the last page.)

Unboxing Unit

Remove all packaging and pieces of the unit and locate the following parts.

		
Lid	Intake shelf 4" with (4) screws.	Output shelf 20" with (4) screws.



Labeled Parts

- | | |
|-------------------------------|------------------------------|
| 1. Intake Shelf | 4. Low-Pressure Water Intake |
| 2. Output Shelf | 5. Sanitizer Nipple |
| 3. High-Pressure Water Intake | 6. Drain |

Setting Up Tray Washer

1. Assemble the Intake Shelf:
 - a. Locate the smaller intake shelf, which comes with four screws.
 - b. Align this shelf to the front of the machine.
 - c. Secure the shelf in place using the four screws provided.
2. Assemble the Output Shelf:
 - a. Find the larger output shelf, which also comes with four screws.
 - b. Attach this shelf to the rear of the machine.
 - c. Use the four screws to fasten the shelf firmly.
3. Install the Lid:
 - a. Place the lid on the top of the machine.
 - b. Securely latch it at both the front and the back to ensure it is firmly closed.
4. Connect the Low-Pressure Water Intake:
 - a. Take a garden hose that is connected to a water spigot (not a sink).
 - b. Attach this hose to the low-pressure water intake located on the right side of the machine's side cover.
5. Set Up the Drainage System:
 - a. Use a separate garden hose for the drain.
 - b. This hose should be directed away from your work area, ideally into a dedicated drain if available.
6. Connect the High-Pressure Water Intake:
 - a. Attach the hose from your pressure washer directly to the high-pressure water intake on the machine.
 - b. Remember, do not use a gun attachment with this hose.
 - c. If you wish to remove the high-pressure hose easily in the future, you can install a quick-connect fitting (note: this part is not included and must be sourced locally).
 - d. For assistance or guidance on attaching the high-pressure hose, contact the Bootstrap Farmer Techline at 888-406-1982 ext. 1.

Tray Washer Operating Instructions

Safety First

- Important: Never put your hands inside the unit or remove the lid while the unit is operating.

Preparation

1. Clean Trays Before Washing:
 - a. Remove loose plant material and soil before inserting trays into the washer. This helps prevent clogging and ensures better cleaning efficiency.
2. Activate Your Pressure Washer:
 - a. Turn on your pressure washer following the manufacturer's instructions specific to your model.
3. Begin Low-Pressure Water Flow:
 - a. Turn on the low-pressure water from the garden hose connected to the machine.

4. Optional Sanitizer Use:

- a. If desired, you can add a liquid sanitizer to the low-pressure rinse.
- b. Use a siphon hose (not included). We recommend a 1/4-inch internal diameter clear hose attached to the low-pressure side. Sanitizer needs to be premixed with water according to the manufacturer's instructions. The siphon is adjustable between 2-3 GPM. Adjust your mixture accordingly to allow for the mixing of additional water.

Sanitizer Dilution chart		
Brand	Standard Dilution Mix	Dilution to run in Tray washer
Starsan	1oz to 5 gallons	1oz in 2.5 gallons or 2 oz in 5 gallons
Oasis 146	0.26-0.68 oz per 1 gallon	.5 oz per gallon
Steramine	1-2 tabs per gallon	4 tabs- 1Gal water
Stera Sheen	1oz per gallon	2 oz per gallon
Sanidate 12	1.25oz per gallon	Double your recommended strength.
Noble Sani-512	1oz to 4 Gallons	1oz per 2 gallons or 2oz per 4 gallons

Washing Trays

1. Inserting the Trays:
 - a. Place the tray face down at the intake side (front) of the machine.
 - b. Ensure the edges of the tray fit into the guide channels on each side of the intake opening.
2. Pushing Trays Through:
 - a. Gently push the tray into the washer about three-quarters of the way in.
 - b. Then, use a second tray to push the first tray fully through to the output side (rear).
3. Continuous Operation:
 - a. Continue inserting trays one after the other, using each new tray to push the previous one through until all trays are washed.

Post-Use Cleaning and Maintenance

1. Turn Off Equipment:
 - a. After washing all trays, turn off the pressure washer.
2. Clean the Washer:
 - a. Remove any remaining debris from inside the machine.
 - b. Spray down the entire unit, including the inside, and rinse thoroughly.
 - c. Ensure the drain and drain hose are also rinsed out to prevent clogging.
3. Drying the Unit:
 - a. Leave the unit open to air dry with the lid off between uses. This helps prevent mold and maintains the washer's cleanliness.

Tray Washer Troubleshooting Guide

If a Tray Gets Stuck Inside the Washer:

- Stop the Washer: Immediately turn off the pressure washer.
- Access the Interior: Carefully remove the lid to access the washer's interior.
- Remove the Tray: Gently push the stuck tray out through the washer's rear (output side).

Preventing Clogs:

- Avoid Washing Overly Dirty Trays: Do not wash trays that have large amounts of root material, plant debris, or soil. This can cause clogs in the drain.
- Timely Washing: Wash trays soon after harvest for more efficient cleaning. Trays with dried-on roots, debris, and soil are harder to clean.

If the Drain Clogs and Water Accumulates in the Washer:

- Turn Everything Off: Immediately turn off both the pressure washer and the low-pressure water source.
- Inspect the Drain Hose:
 - Disconnect the garden hose used for drainage.
 - This step helps determine if the hose itself is clogged.
- Remove the Lid and Check the Drain:
 - Carefully remove the washer's lid.
 - Inspect the drain at the bottom of the washer.
- Clear the Clog:
 - If you find debris clogging the drain, carefully remove it using your hand or a suitable tool.
- Rinse and Drain the Washer:
 - Allow the washer to fully drain out the water and rinse any remaining debris.
- Reassemble and Resume:
 - Reconnect the drain hose.
 - Once the washer is clear of clogs and debris, you can resume the washing process.

Recommended pressure washers to operate the tray washer. You need to use an adequate pressure washer to get desirable cleaning results.

NorthStar Gas Cold Water Pressure Washer - Aircraft-Grade Aluminum Frame, 4200 PSI, 3.5 GPM, Honda Engine
NorthStar Gas Cold Water Pressure Washer - 4200 PSI, 3.5 GPM, Honda Engine
Landa PE4-20024A
Easy-Kleen Commercial 3000 PSI @ 4.0