

# S25 **SPRAYPRO** PUSH SPRAYER ASSEMBLY and OPERATING INSTRUCTIONS

# EarthWay SPRAYPRO

Congratulations on the purchase of this new EarthWay product. Please call us if you have any difficulty with assembly or operation of this sprayer. We can be reached via the telephone at 800-294-0671 or 574-848-7491 Monday—Friday 9:00am ~ 4:00pm or visit us online at [www.earthway.com](http://www.earthway.com) This sprayer comes with lifetime technical support, email us at [techsupport@earthway.com](mailto:techsupport@earthway.com).

## HELPFUL HINTS: READ THE DIRECTIONS BEFORE ASSEMBLY

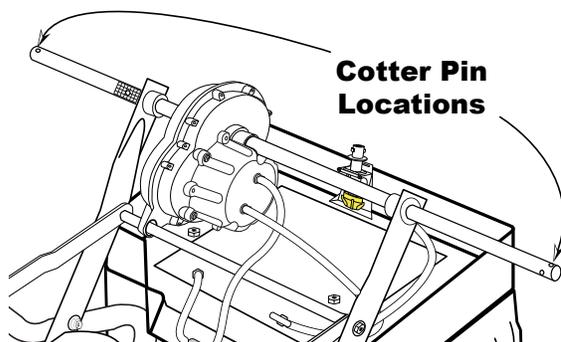
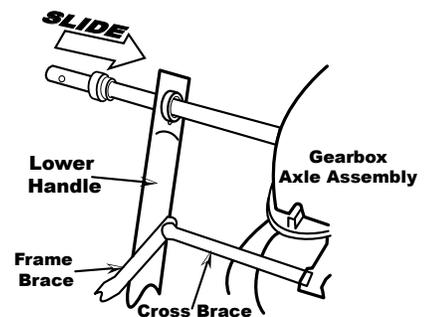
THIS SPRAYER COMES PARTIALLY ASSEMBLED, REQUIRING YOU TO INSTALL THE WHEELS, HANDLE ASSEMBLY, SPRAY GUN HOLDER, AND CONTROL ROD. IT SHOULD TAKE APPROXIMATELY 15 MINUTES WITH THE USE OF TWO 7/16" WRENCHES AND 1 PAIR OF PLIERS.

- ☑ Your sprayer is designed to be pushed at three miles per hour, which is a brisk walking speed. Slower or faster speeds will change the spray patterns & volumes.
- ☑ Clean your sprayer tank thoroughly after each use. Wash with clean water and push sprayer a several feet to evacuate any residual materials until you see clean water in a safe area as described in the chemical supplier directions.
- ☑ Gears are permanently lubricated at the factory. Do not open the gearbox or dirt may enter.
- ☑ Check all hose connections regularly to ensure they remain tight.
- ☑ If unit fails to spray on initial use, loosen the yellow cap on the DCV slightly, then retighten.
- ☑ Coat all metal surfaces (inside & out) with WD-40 to help prevent corrosion.

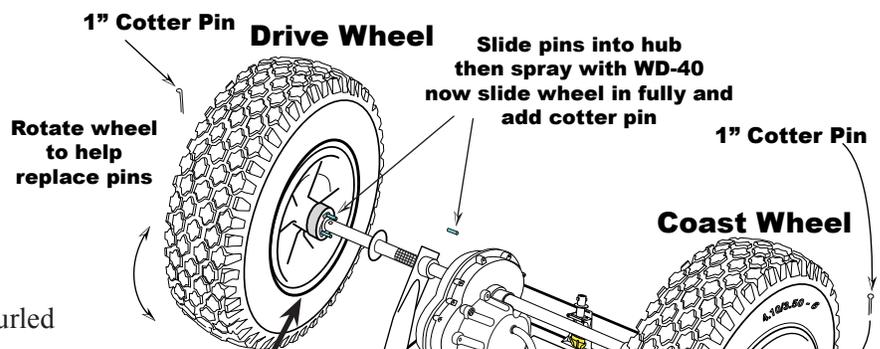
1. Open carton and remove the Handles, Control Rod, Handle Shaft assembly, hardware pack, wheels, and the S25 from carton.

2. Turn the S25 upside-down on to the tank.

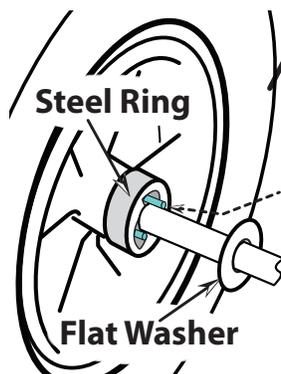
3. Ensure that the axle bearings are pushed into the axle bushing on both sides as shown at the right. Install the Coast wheel (this wheel does not have the steel ring on the inside hub as shown below) on to axle using the cotter pin hole closest to edge of the axle. Insert 1" cotter pin through the axle and bend with pliers to prevent pin from falling out.



**Cotter Pin Locations**



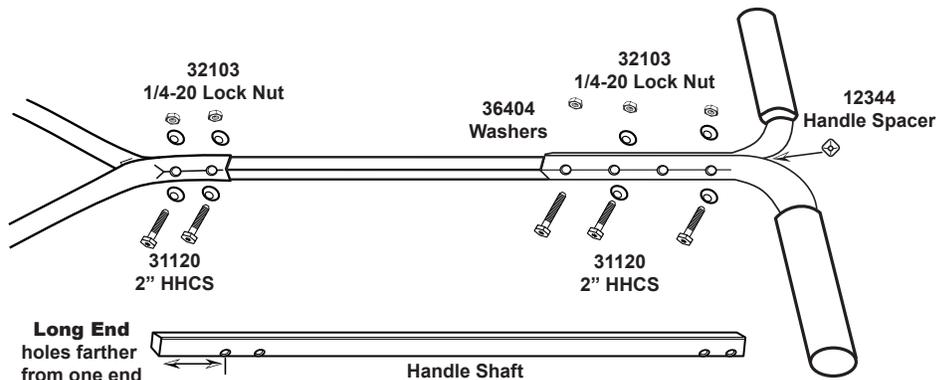
4. Install the flat washer (included with the 3 knurled dowel pins) onto the axle and slide to the lower handle. Next, position the Drive wheel onto the axle about 2 inches, now install 3 knurled dowel pins into each pin slot located in the hub by sliding 1 dowel pin between the hub and the axle as shown below, coat the knurled pins with WD-40 or a light oil, finish by sliding the wheel tight against the lower handle. Now insert 1" cotter pin through axle, bend with pliers to prevent cotter pin from falling out.



5. Install handle shaft to lower handles as shown. Using 2" bolts, washers and locknuts.

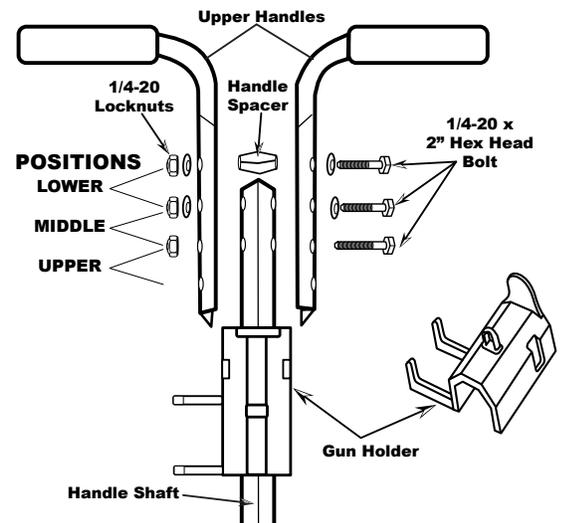
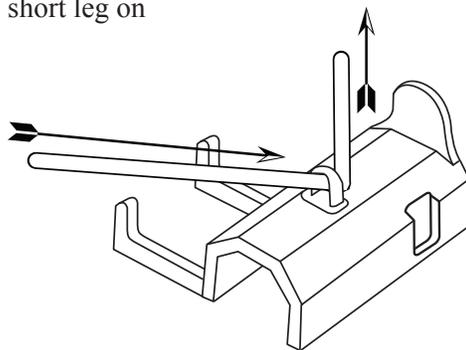
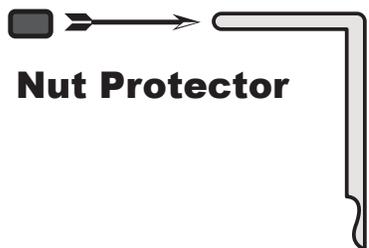
**Make sure that you install the handle shaft with the long end facing toward the sprayer.**

**TIGHTEN BOLTS AND NUTS NOW.**



6. Insert 2" bolt through upper handle, then through handle spacer and then through other upper handle, secure loosely with cupped washer and 1/4-20 locknut. Now install one 2" bolt so that it goes through the top hole in the handle shaft and secure with cupped washer and 1/4-20 locknut. **TIGHTEN BOLTS AND NUTS NOW.**

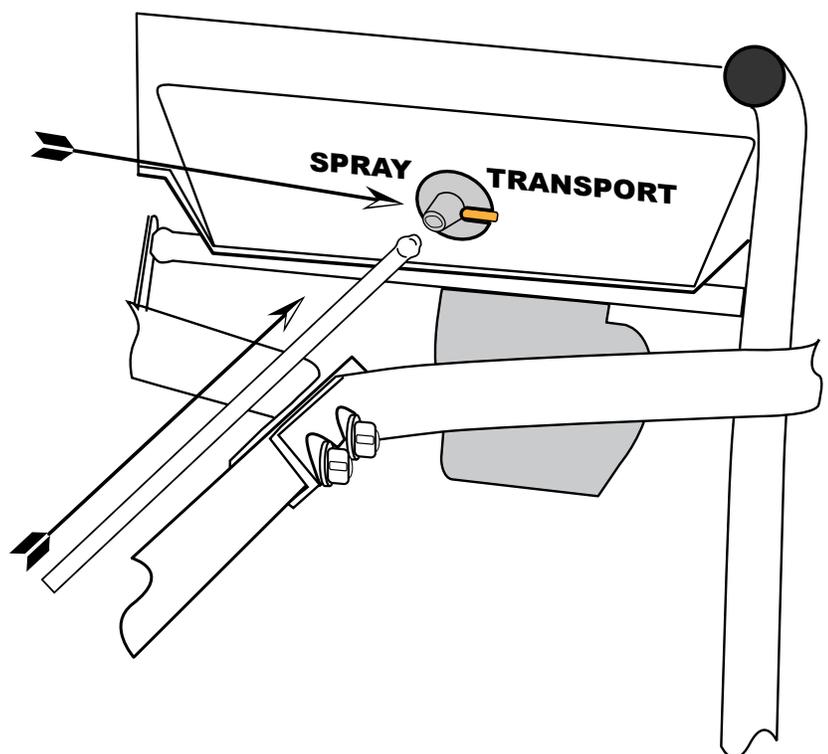
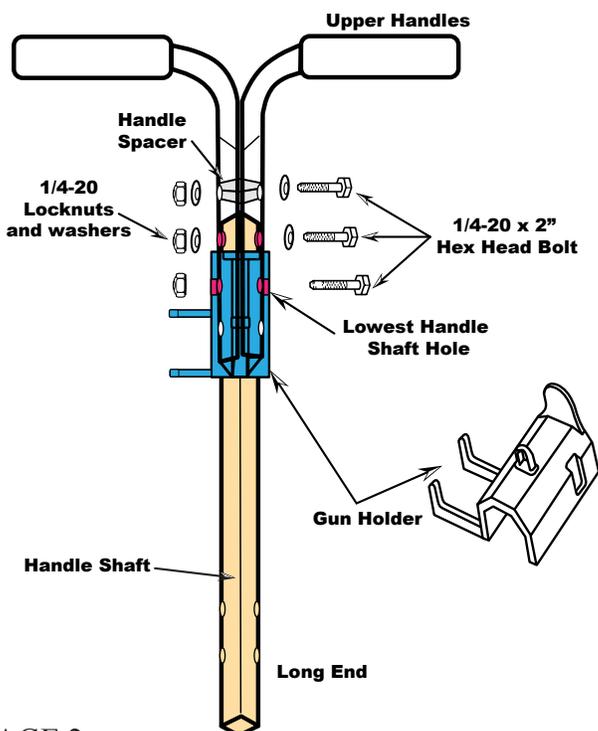
7. Install Control Rod into the Gun Holder as shown below right. Next install black nut protector to the short leg on Control Rod



8. **Next**, Install Control Rod to Valve Adapter by pressing onto the valve handle located at the back of the sprayer skirt, shown below right.

Install the Control Rod by installing flattened end of Control Rod into Valve Adapter, shown below right.

Finally, install the Gun Holder onto the lowest bolt (closest to the sprayer TANK) and secure with a 2" bolt and locknut. Be sure to position the Gun Holder as show below. **TIGHTEN NOW.**



## WARRANTY

The EarthWay guarantees this product to be free of defects in original workmanship and materials for a period of 90-days from sale to the original user. If any defect develops during this period the manufacturer will repair or replace this product at no charge provided the defect is not the result of mishandling or tampering and that this product is received at the factory with shipping charges prepaid. For quicker service you may call the manufacturer at 574-848-7491 or 800-294-0671 and describe the nature of the defect and we will send repair parts to you. Due to the corrosive nature of most fertilizers and ice melters, the manufacturer makes no warranty or guarantee against corrosion failure on models with plated steel or painted steel frames. Clean and dry your sprayer well after each use. Warranty covers parts only, not any labor charges required to repair your sprayer.

**For Support for your S25, please contact:**

## **NORTH AMERICA**



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## **EUROPE**

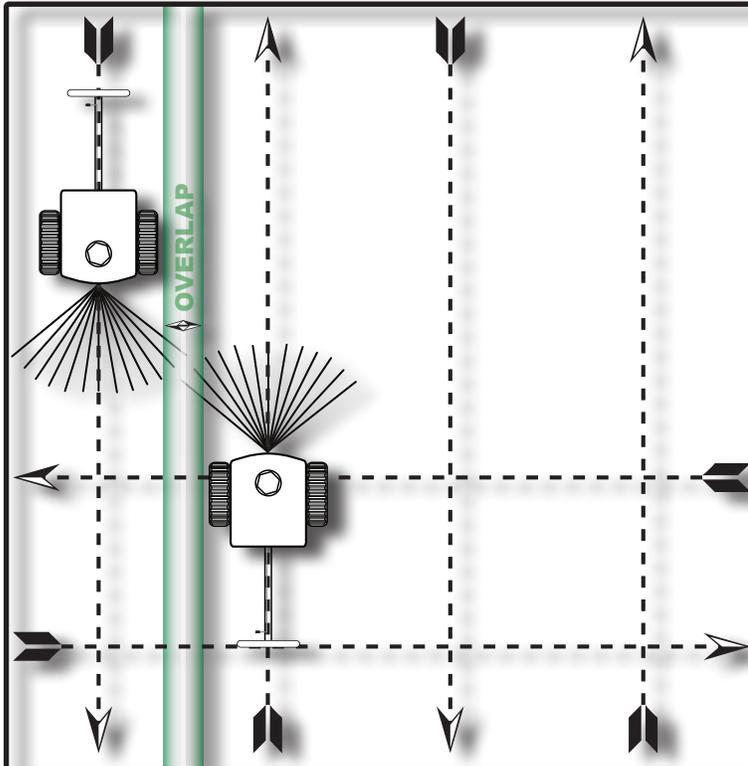


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## **Spray Pattern**



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**Most applications will only require 1 pass of up/back.**

**When higher application rates are required a cross pattern shown below left, should be used.**

# How to use the S25 Sprayer

EarthWay's S25 Spray-PRO sprayer is designed to be simple to use, easy on the operator and provide years of accurate spraying. The S25 is the latest development from EarthWay, world leaders in the manufacture of broadcast spreaders, seeding tools, and sprayers.

## Calibration

The S25 is supplied with 3 different nozzle options. The table below shows the characteristics and performance of the supplied nozzle options.

VOLUME COVERAGE BASED ON FULL TANK 6.6 GALLONS / 25 LITERS				
<u>Nozzle</u>	<u>Square Feet</u>	<u>Square Meters</u>	<u>Fluid OZ/Gal US per 1,000 Square Feet</u>	<u>Fluid ML per Square Meter</u>
TF-VP4-5	11,400	1,059	74/.58	23.6
TF-VP4-7.5	7,280	676	116/.90	37
TF-VP4-10	7,040	654	120/.94	38.2

## Before use

Before using any liquid products always read thoroughly the manufacturers product label, to ensure correct dosage and handling of the product being applied through the applicator.

- Check that the applicator has been thoroughly cleaned from its previous use and that both the nozzle outlet and the handgun line have been washed through.
- Always spray on a day where wind is minimal. It can be unsafe and inaccurate if spraying is undertaken in windy conditions.
- Always wear appropriate safety clothing when the sprayer is being used. Refer to manufacturers instructions, or contact your supplier of the product being applied for safety recommendations.
- Make sure the tires are properly inflated to 20 psi.

## How to use ~ *Walk behind spraying*

### Practice before use



It is recommended for first time users of the machine that the user familiarizes him/her self with the workings of the sprayer. By simply putting water in the spray tank and spraying it out onto a dry tarmac surface the operator will very quickly familiarize themselves with the workings of the machine. Make sure the spray tank is then emptied of water before further use.

Make sure the handlebar is set right for the size of the operator. There are three position options on the upper handle for different user heights. By having the handle in the correct position for the individual user it will make pushing the machine simpler and make spray accuracy easier to achieve.

### How to use

- Choose the correct nozzle of the 3 nozzle options that is suitable for the product being applied. (See calibration chart above)
- Ensure the Spray (on) / Transport (off) lever on the handlebar is in the Transport position. The Transport position is with the lever over to the right side when standing behind the handlebars of the machine.
- Make sure the tank is clean and there is no chance of remnants or deposits from a previous spray task being left in the tank.
- With the tank clean fill the tank with the required volume of liquid for the designated spray task, making sure the product being used is mixed and being applied in accordance with the manufacturers instructions.
- With the control lever is in the closed position as shown above the machine can be safely pushed to the area where spraying is to be carried out.
- Locate the sprayer at the point at which spraying needs to commence. Lift the machine up off the two feet, so the body of the machine is parallel with the ground (important see note (ii) on next page). To spray simply roll the On/Off lever over to the left side (**Spray position**), and walk forward at a brisk walking speed 2 to 3 MPH is recommended.
- To stop the spray roll the on/off lever back to the right side position. **Note.** When the Spray/Transport lever is in the right side (**Transport position**) and the machine is being pushed, the pump is pumping liquid out of the tank and circulating it back into the tank. This circulation provides agitation and helps keep liquids that are mixed with water in suspension while walking the sprayer to and from the area being treated.

# How to use the S25 Sprayer continued

## Technical spray information and how to ensure accuracy

The spray width is adjustable from approximately 3 feet/.9 meters to 6 feet / 1.8 meters. Depending on the nozzle selected (see nozzle chart) The Teejet TF nozzles are designed to “feather” at the edges to allow the second pass to “feather in,” and so provide uniform coverage. The area of “feather” or overlap is @ 15% of the spray widths edges, a total of 30% over the two edges/ends of the spray pattern. To maximize uniform coverage the second pass over the area should allow for the 15% “feather” or overlap.

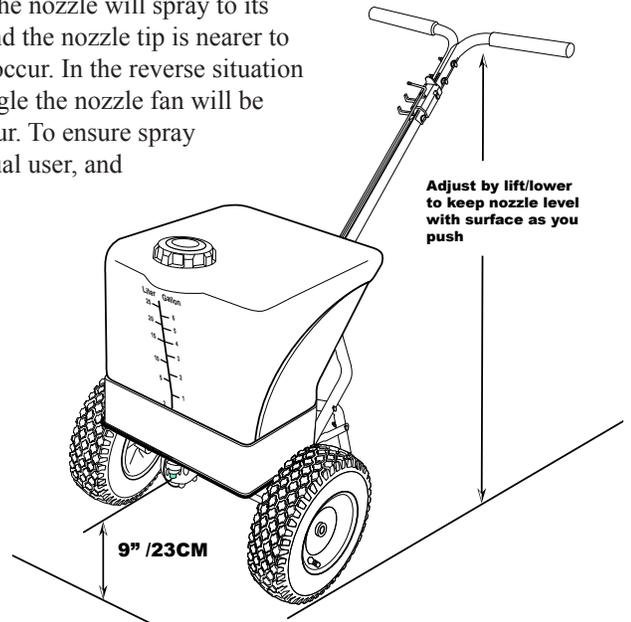
It is important that the S25 Spray-PRO sprayer is pushed in a manner that keeps the spray head parallel to the ground at all times, so that the spray nozzle is constantly kept at the same correct height. (9”/23CM from the ground surface) Keeping the height of the nozzle constantly parallel to the ground at 9”/23CM height ensures the nozzle will spray to its stipulated spray application cover. If the sprayer is pushed at a downward angle and the nozzle tip is nearer to the ground than 9”/23CM, spray width will be reduced and over application will occur. In the reverse situation of the spray nozzle height being increased by pushing the sprayer at an upward angle the nozzle fan will be wider, the spray width will becoming inaccurate, under application will likely occur. To ensure spray width accuracy it is important that the handlebar height is set right for the individual user, and the operator is aware that the sprayer is pushed in a manner that keeps the nozzle constantly parallel with the ground at 9”/23CM height from it.

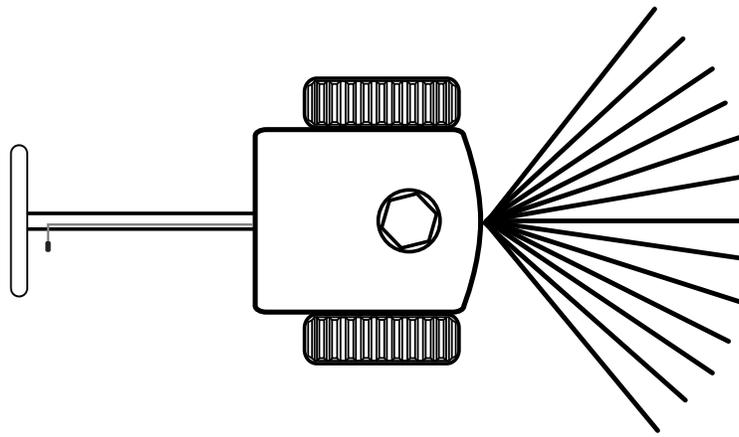
To aid accuracy use a proprietary spray dye indicator which allows the operator to see where they have sprayed. Contact your supplier for a recommendation.

## After use



1. Empty any unused contents out of the spray tank. The S25 Spray-PRO tank has been designed to easily empty and clean. **Dispose of the tank contents and all washings in accordance with the manufacturer’s disposal instructions on the product that has been used.**
2. Wash out the tank thoroughly using clean water and or a preparatory tank cleaner. Make sure that the nozzle and hand lance gun are thoroughly washed through as well. To wash through the pipework to the spray nozzle, add an additional 1/2 gallon/2 liters of clean water to the tank and wash this through the nozzle by pushing the sprayer over a safe area for the purpose of disposal of washings.
3. Empty all water out of the sprayer making sure no water is left in the pump over winter - do not allow to freeze, unless you have setup the S25 to operate in freezing temperatures using some Ice Melt or snow pre-treatments.





## S25 SPRAY-Pro Liquid Sprayer ~ Parts List

