

# Installation Manual

## ProCore™ Auto-Watering Kit, 24VDC Valve & Mount-On Pedestal



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## A NOTE ABOUT CUSTOMER SUPPORT

Please write down the unit serial number in the Owner's Record below to ensure superior service, and have it available when contacting PosiChargeCustomer Service. The serial number can be found on the nameplate rating label on the left side of the unit.

### Owner's Record

Model:  
ProCore™

Serial Number (SN):

Purchase date:

Output power:

**Customer Support:**      service@posicharge.com  
1-866-767-4242

**Parts:**                      orders@posicharge.com

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## Overview

Flooded batteries lose water as they are charged and discharged. A forklift battery can lose up to 1.5 gallons of water in a week of heavy use. Automatic battery watering assures that the electrolyte level is maintained properly for battery health and safety.

Electrolyte levels rise as a battery is charged; adding water when a battery is not fully charged can result in overflows later. Auto watering prevents overfilling by adding water during the weekly equalization charge cycle. This assures that the battery is fully charged before water is added and also allows the bubbling action to mix the water with the electrolyte.

## Safety Precautions – Read Before Using

### Symbol Usage

 WARNING	Contains information about safety practices necessary to prevent fire or equipment overheating.
 DANGER	Contains information about safety practices necessary to prevent personal injury or death.

- Disconnect charger unit from utility power and any vehicles or battery packs while assembling and mounting the auto watering kit.
- Wear safety glasses while using drill.

## Installation Note

The installation kit is only used with PosiCharge chargers.

## Preparation

This manual is to be used for installation of the following kits:

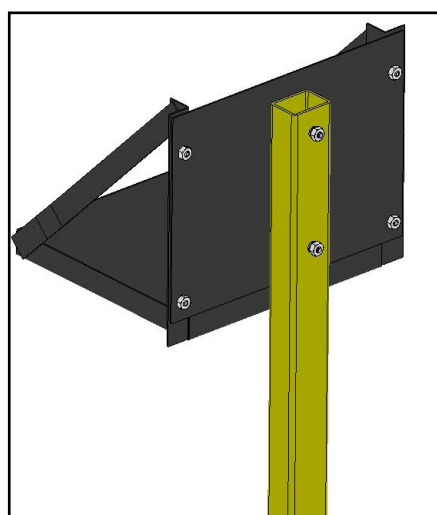
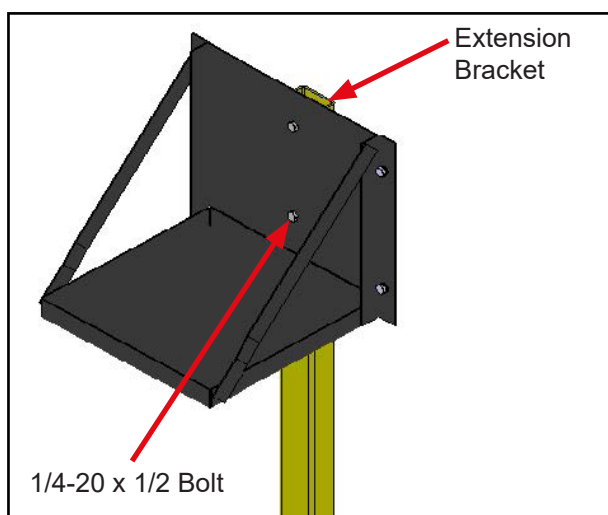
Part Number	Description
25046	Kit, 5 Gal. Tank Auto Watering, 24VDC Valve, ProCore
25047	Spec, Kit, Auto Watering Expansion, 24VDC Valve, Hoses, Couplings, No Tank, Instructions

## Hardware

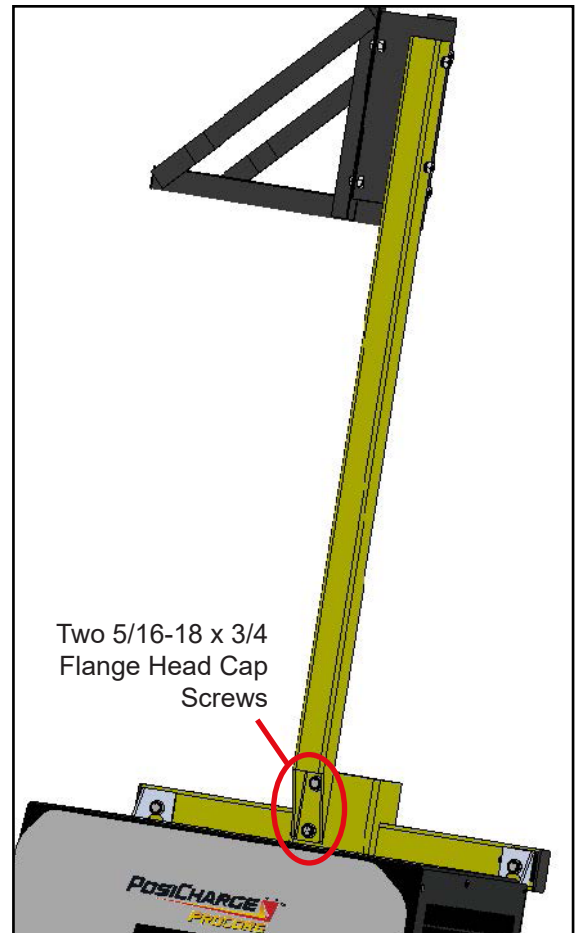
Items	Tools – Standard Hardware	Qty
1	Hardware kit from P/N # 25046 Auto Watering Kit	See installation steps below
2	7/16-in Wrenches	2
3	Small Cutting Pliers	1
4	Standard Pliers	1
5	Small Flat-Blade Screwdriver	1

## Installation

1. Disconnect the unit from the utility and unplug the output cable from any vehicle or battery pack.
2. Mount the extension bracket (25394) to the water tank bracket with:
  - (2) 1/4-20 x 2 bolt (P/N # 04208)
  - (2) 1/4-in washer (P/N # 25046 kit)
  - (2) 1/4-in lock washer (P/N # 25046 kit)
  - (2) 1/4-20 nut (P/N # 25046 kit)



3. Mount the extension bracket (P/N # 25394) to the pedestal with two 5/16-18x3/4 flange head cap screws (P/N # 24759) from front of extension bracket, two 5/16-18 Hex nuts (P/N # 06897), and two flat washers (P/N # 05241) to the rear side of pedestal.

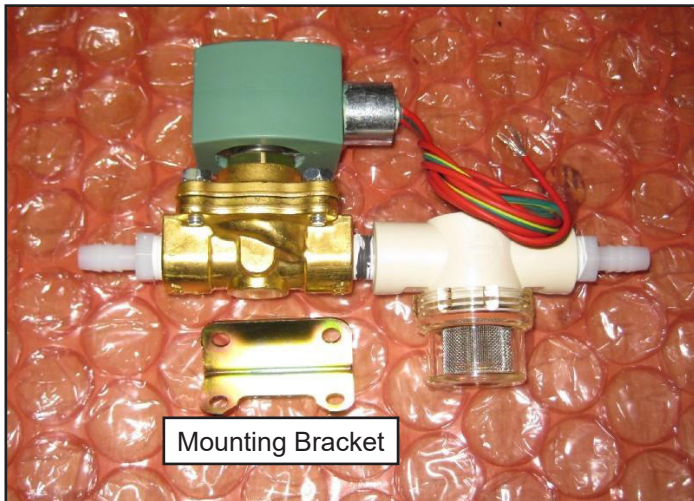


4. Attach the garden hose fill hose from the water supply to the input of the tank.

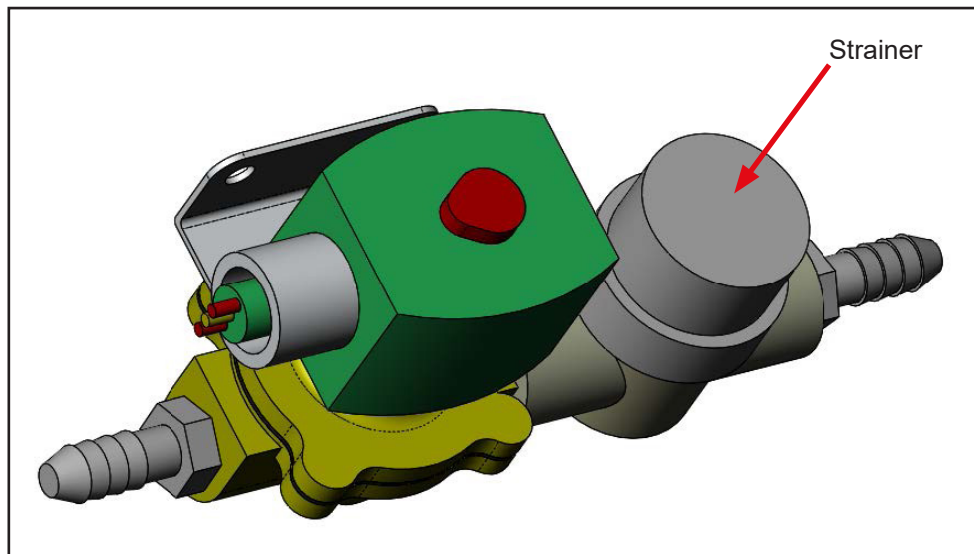
Garden Hose Connection



5. Prepare the valve by attaching the mounting plate to the valve bolts with a 7/16-in wrench.



6. Confirm it is correctly positioned to the strainer as shown below.

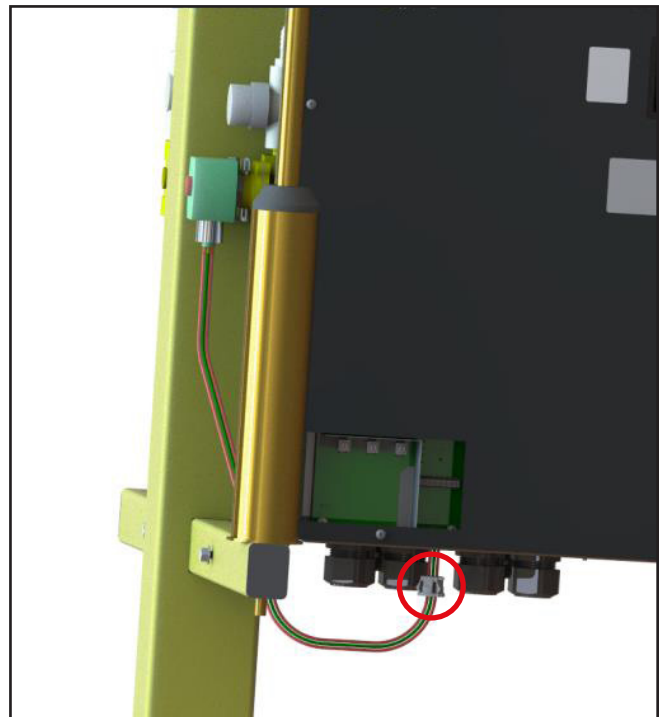




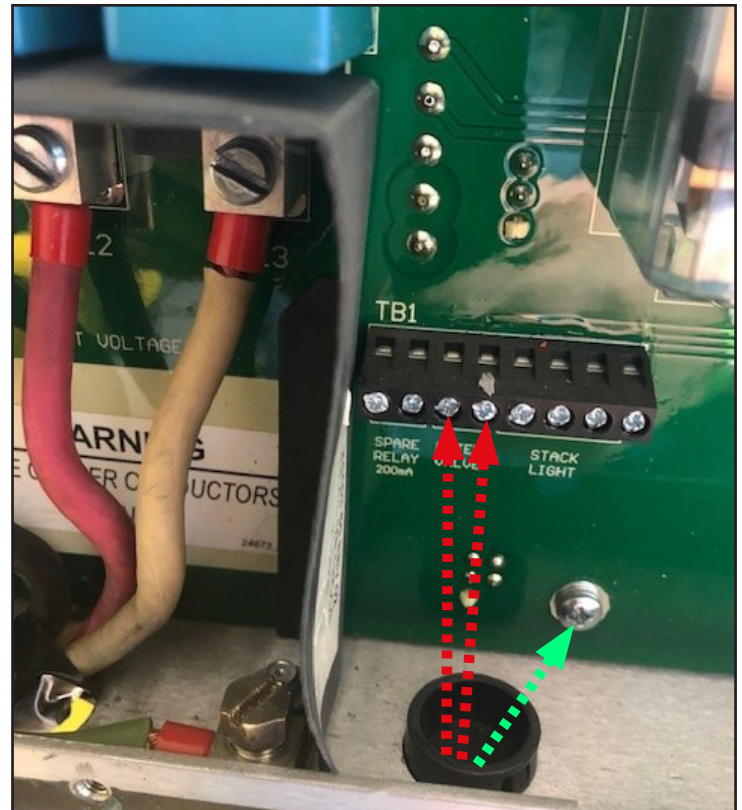
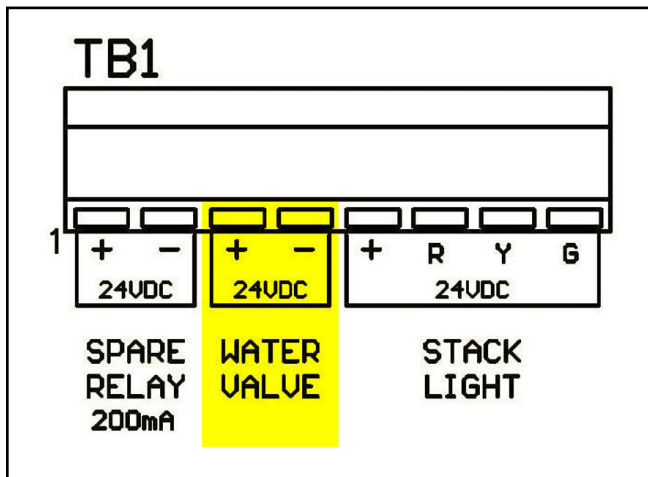
7. Mount the valve to the left side of the pedestal using two 1/4-20 x 1/2 flanged bolts (P/N # 01860).



8. Guide the valve wires through the hole with the strain relief (P/N # 13598), “clicking” it into position with pliers.

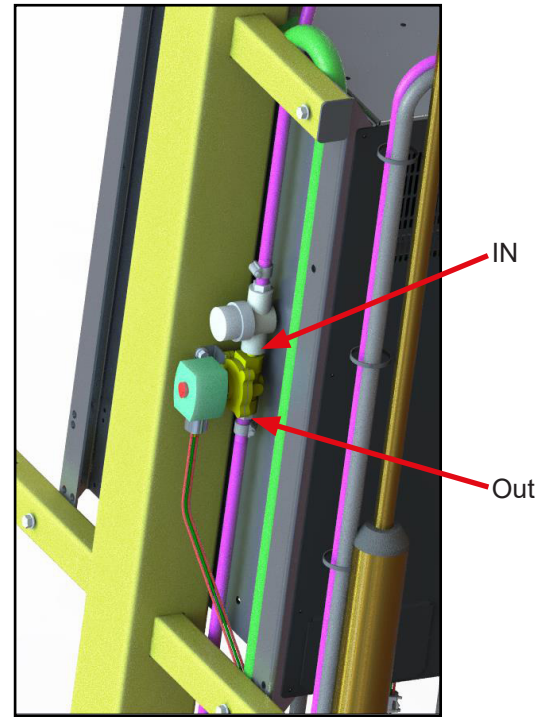
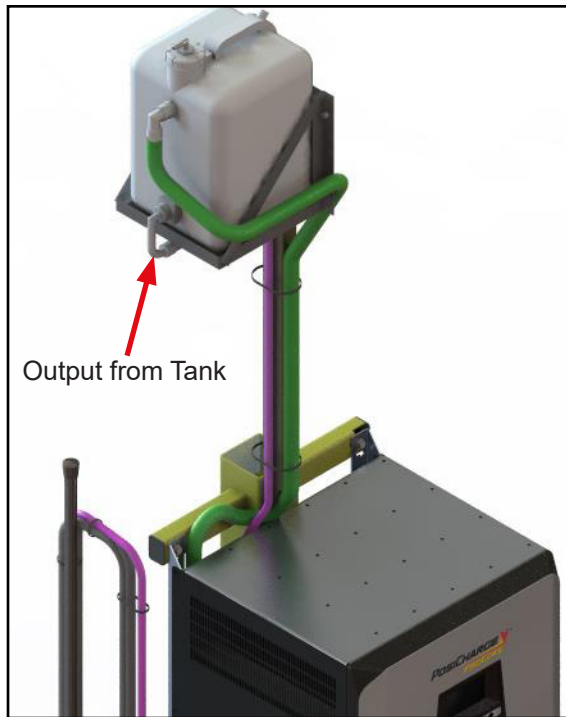


9. Connect one red wire to the negative (-) and another red wire to the positive (+) electrical connections, then connect the green wire to the earth/ground connection as shown below.



10. Attach the tank output hose to the tank as shown below on the left, and route the hose to the valve/strainer and cut off any excess hose. Then slip the hose end over the barbed fitting on the strainer and secure it with the hose clamp as shown below on the right.

NOTE: Be sure to position the valve/strainer so the "IN" mark is located on the top.



11. Attach the watering hose to the charger output connector with a cable tie as shown below, then secure the hose to the output cable with a cable tie every two inches. When finished, cut off any excess hose, slip the hose over the barbed fitting on the valve, and secure it with a metal hose clamp.



12. Use cable ties to secure all the loose hoses to available location on the complete assembly as shown below.



13. Turn the charger ON.

14. Use the charger menu to activate the auto watering function by doing the following:

- A. Press **Select** until “Charger Configuration” is displayed.
- B. Press **Enter**, then press **Enter** and the **down arrow key** at the same time until Key Code is displayed.
- C. Press **Select** until “Watering System Configuration” is displayed.
- D. Press **Enter**, then press the **up arrow key** until “Watering System Enabled ON” is displayed, then press **Enter** again to save the selection.
- E. “Watering System Type” should then be displayed – press **Enter**, then use the arrow keys to select **BFS Low Pressure**, and press **Enter** again to save the selection.
- F. The watering system is now activated – press Enter until you have completed exited the menu.

The installation is now complete.

## Connecting a Second Port to an Existing Tank

- Use auto watering expansion kit 25047 (DC Valve).
- Use the supplied T adapter to connect the watering valve to the existing tank.

## Fill Water Considerations

- The tank should be filled from a continuous supply or manually at least once each week.
- Water containing high levels of certain impurities can damage the battery.
- The fill water supply must be tested to assure that the limits below are not exceeded. This is especially important if the water supply uses copper piping. If the limits are exceeded, a water filter must be installed and maintained to remove the impurities and protect the batteries.

Impurity	Maximum Allowable PPM
Iron (Fe)	5
Chloride (Cl)	10
Manganese (Mn)	0.1
Copper (Cu)	5
Total Fixed Residue (as sulfated ash)	150

## Operation

Operators must connect the charger's watering hose to the truck's single point watering connection when they connect to the charger at the end of the week; the charger automatically opens the water supply valve during the weekly equalization charge to add water to the battery.

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