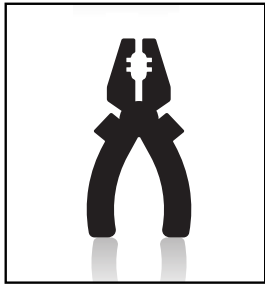
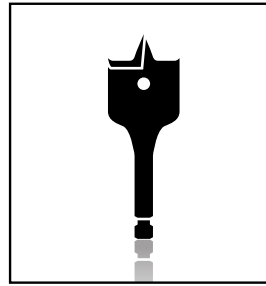


# TOOLS REQUIRED

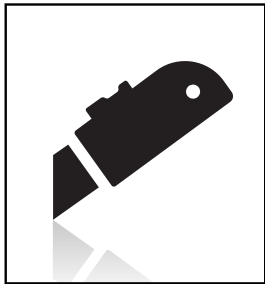
HAVING TROUBLE? CALL SUPPORT AT: 320.340.6464



PLIERS



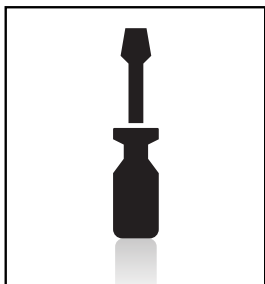
13/16" SPADE BIT



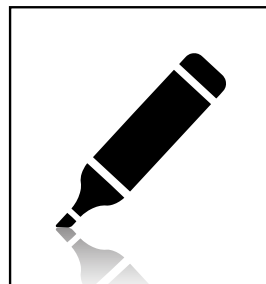
KNIFE



TEFLON TAPE



FLAT-HEAD SCREW  
DRIVER



MARKER

WATCH OUR REGULATOR ASSEMBLY  
VIDEO ON YOUTUBE, SCAN BELOW:



YOUTUBE.COM/MASTERMFG

## INCLUDED COMPONENTS



Pressure Regulator Assy (1)  
34-140158



Shut-Off Valve (1)  
34-140161



Return Hose (1)  
33-103622-5



Top Hat Grommet (1)  
33-100098



Pressure Gauge (1)  
1124DAB100



3/8" Hose Clamp (1)  
SHC-F



3/4" Hose Clamp (1)  
SHC-H



3/8" MNPT x QA Adaptor (1)  
EF-QC-FQA/M38

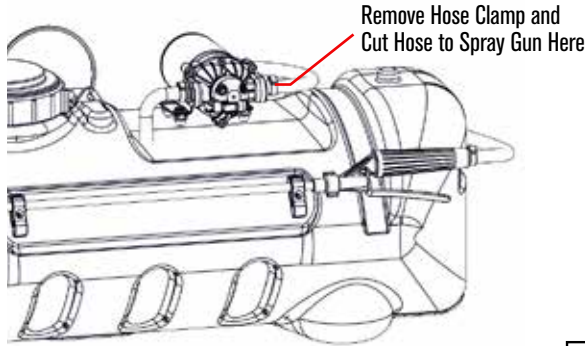
**NOTE:**  
This adaptor is only used  
with NPT pumps.

## REGULATOR ASSEMBLY

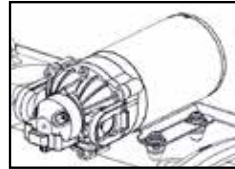
HAVING TROUBLE? CALL SUPPORT AT: 320.340.6464

### 1. PARTS

#### TOOLS



Opens Port for Regulator



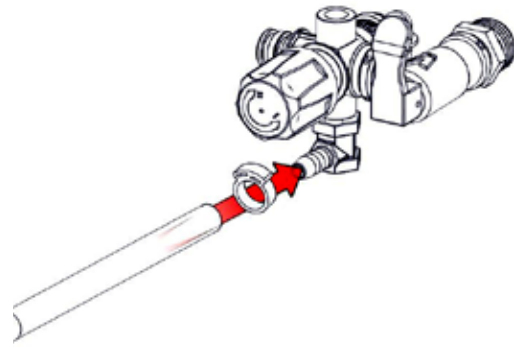
With a Knife, remove the Spray Gun Hose Assembly from the hose barb that is connected to your Sprayer Pump.

Slide locking clip on the Pump to the "open" position.

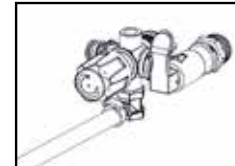
Remove Hose Barb fitting from Pump.

### 3. PARTS

#### TOOLS



Connects Spray Gun to Regulator Assembly

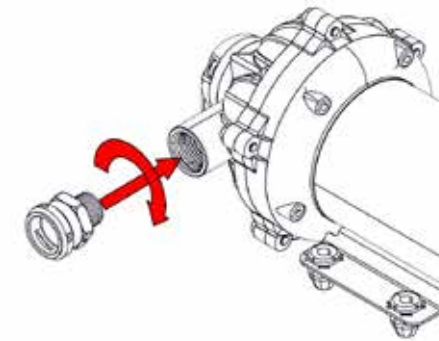


Slide the 3/8" Hose Clamp over the end of the Spray Gun Hose.

Push Spray Gun Hose onto the bottom hose barb of the Pressure Regulator Assembly and tighten the 3/8" Hose Clamp with Pliers.

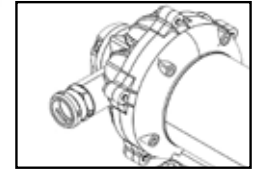
### 2. PARTS

#### TOOLS



NOTE: Skip this step if you have a Pump with Quick Attach ports.

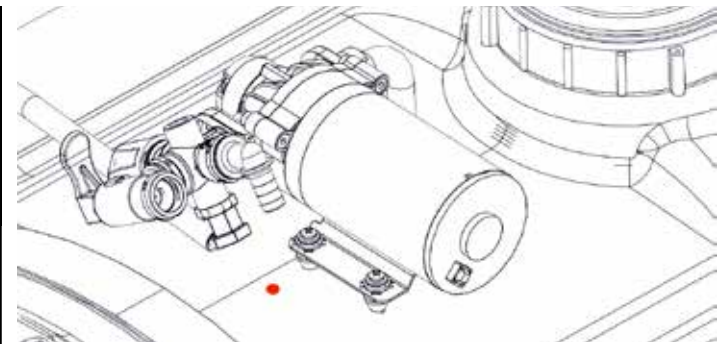
Adds QA Port to NPT Pump



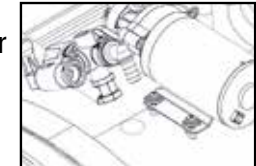
If your Pump has NPT ports, add a small amount of Teflon Tape to the threads of the 3/8" MNPT x QA Adaptor, and twist it into the outlet port opened in Step 1.

### 4. PARTS

#### TOOLS



Creates Hole for Return Hose



Insert the Pressure Regulator Assembly into the open Pump port or 3/8" MNPT x QA Adaptor.

Mark the center of the return hose barb on the Tank and remove Pressure Regulator Assembly. Drill a 13/16" hole on the mark with the Spade Bit.

5.

PARTS



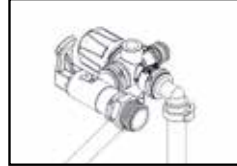
TOOLS



Slip the 3/4" Hose Clamp over the Return Hose.

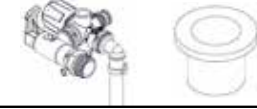
Connect Return Hose to the hose barb on the back of Pressure Regulator Assembly and tighten 3/4" Hose Clamp with Pliers.

Connects Regulator Assembly to Return Hose



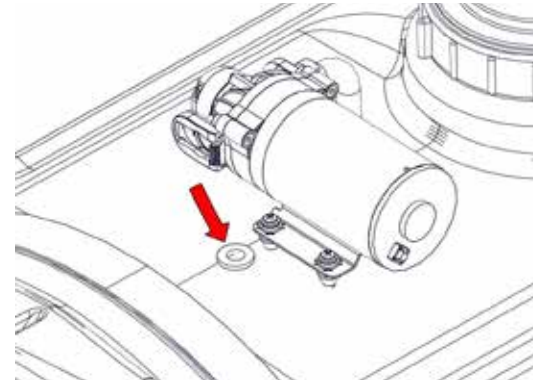
6.

PARTS



TOOLS

None

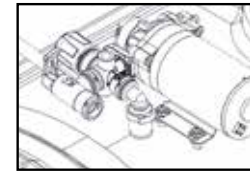


Install Top Hat Grommet into the return hole on Tank.

Slide Return Hose into Top Hat Grommet and push down until Pressure Regulator Assembly is even with Pump.

NOTE: Before inserting rubber hose into grommet, lubricate the outside of the hose with a thin layer of dish soap for easy installation.

Installs Return Hose

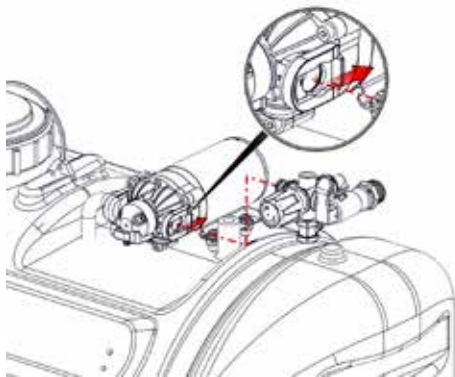


7.

PARTS



TOOLS

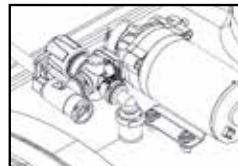


Insert the Pressure Regulator Assembly into the open Pump port or 3/8" MNPT x QA Adaptor.

Slide the locking clip into the "locked" position.

NOTE: 3/8" MNPT x QA Adaptor will have a Locking Pin on the port that will need to be removed with a Screw-Driver before Pressure Regulator Assembly can be installed. Once Pressure Regulator Assembly is installed, insert locking pin back into port.

Installs Pressure Regulator Assembly

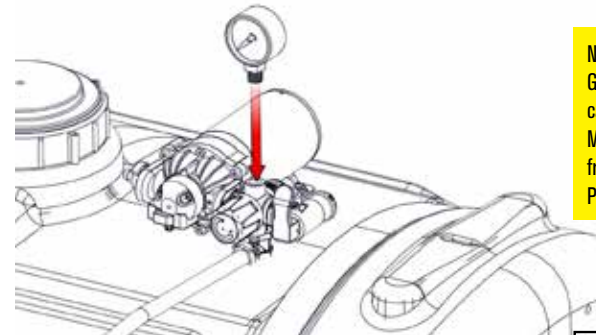


8.

PARTS



TOOLS

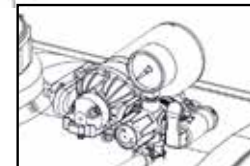


Wrap a small amount of Teflon Tape around the threads of the Pressure Gauge.

Thread the Pressure Gauge into the top of the Pressure Regulator Assembly. Take care not to cross-thread the Pressure Gauge.

NOTE: Make sure Pressure Gauge is well seated, being careful not to over tighten. Make sure Pressure Gauge's front is facing forward with Pressure Regulator knob.

Installs Pressure Gauge



## TROUBLESHOOTING

Here you will find troubleshooting steps for some of the most common issues users have with booms.



### WARNING

Before troubleshooting or attempting to service your boom, read the following safety rules to avoid accidental exposure to chemicals and the possibility of electric shock.

### BEFORE ATTEMPTING TO SERVICE SPRAYER

- **Personal Protective Equipment:** Wear personal protective equipment as directed on the chemical label while servicing sprayer.
- **Review Troubleshooting Table:** Review the troubleshooting table to the right for the type of problem you are experiencing. **DO NOT** attempt to repair until reading remaining steps listed below are followed.
- **Empty & Flush Tank:** Empty tank and flush sprayer & boom with fresh water.
- **Disconnect Power/Relieve Pressure:** Disconnect power to the sprayer and be sure all system pressure is relieved by squeezing the gun trigger.
- **Perform Repairs:** Follow the directions provided in the troubleshooting table to repair the boom.  
**Note:** Never try to unclog the sprayer nozzle by blowing through it.
- **Test after Repairs:** After repairs, **ALWAYS** test the boom for leaks with fresh water before using.

PROBLEM	CAUSE	SOLUTION
Boom Doesn't Spray	Bad Electrical Connection	Check Battery Connections
	Boom Shut-Off Valve	Flip On Shut-Off Valve
Irregular Spray Pattern	Clogged Strainer	Unclog Strainer
	Pinched Or Clogged Hose	Unpinch or Unclog Hose
	Clogged Nozzles	Unclog Nozzles
	Damaged Spray Nozzles	Replace Nozzles
	No Nozzles In Boom	Install Nozzles Into Boom
	Incorrect Nozzle Size	Replace with Correct Nozzles
	Nozzle Facing Wrong Direction	Adjust Nozzle To Correct Designation
Boom Leaks	Loose Fasteners	Tighten Fasteners
	Loose Connection To Shut-Off Valve	Tighten Boom To Shut-Off Valve
	Damaged Boom Hose	Replace Hose or Boom Kit
Nozzles Drip After Use	No Ball Check Strainers	Install Ball Check Strainers

### WARRANTY INFORMATION

- **Boom kits sold shall be warranted from defect in workmanship and material, when used within the service and scope for which they were designed, for a period of two years from date of purchase. Warranty covers replacement parts ONLY. The use of corrosive or flammable chemicals is hazardous and will void warranty. Allowing boom kit to freeze without taking proper winterization steps, voids your warranty.**
- **Contact our Spraying Division for warranty parts at 320-340-6464. DO NOT RETURN PRODUCT TO YOUR DISTRIBUTOR/DEALER. Please have original proof of purchase, model number of boom and part number of the item to be replaced.**