# **INSTRUCTIONS FOR ASSEMBLY, OPERATION, SERVICING & STORAGE**

24/36 GALLON TRAILER SPRAYERS



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### **PRODUCT INFORMATION**

When contacting us for replacement parts, accessories or warranty work, please be sure to have the following information available...

 Date of Purchase:

 Place of Purchase:

 Model# of Sprayer:

(Model # can be found above UPC barcode on packaging)

### INTRODUCTION

Congratulations on the purchase of your 12 Volt Trailer Sprayer. This sprayer has been manufactured to provide years of dependable and efficient use in spraying a wide range of agricultural pesticides, herbicides and other non-flammable liquids.

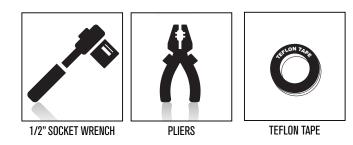
IMPORTANT NOTE: THE PURPOSE OF THIS MANUAL IS TO ASSIST YOU IN THE ASSEMBLY, OPERATION, SERVICING AND STORAGE OF YOUR SPRAYER. PLEASE READ THROUGH THIS MANUAL COMPLETELY TO FULLY UNDERSTAND HOW TO OPERATE AND MAINTAIN YOUR EQUIPMENT. KEEP YOUR MANUAL IN A SAFE, CONVENIENT PLACE FOR FUTURE REFERENCE. ALWAYS MENTION THE MODEL AND PART NUMBER IN ANY CORRESPONDENCE.

#### WARRANTY

Sprayers sold shall be warranted from defects 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.

Contact our Spraying Division for warranty parts at 800.825.5397. DO NOT RETURN PRODUCT TO YOUR DISTRIBUTOR/DEALER. Please have original proof of purchase, model number of sprayer and part number of part from illustrated parts breakdown in this manual. 3

TOOLS ARE NOT INCLUDED WITH PURCHASE OF SPRAYER.



### **CLOSELY INSPECT ALL CONTENTS** IN THE SHIPPING CARTON

- If you have damaged components: Contact the freight company that delivered the unit to file a claim.
- If you have missing components: Contact us at 800.825.5397.

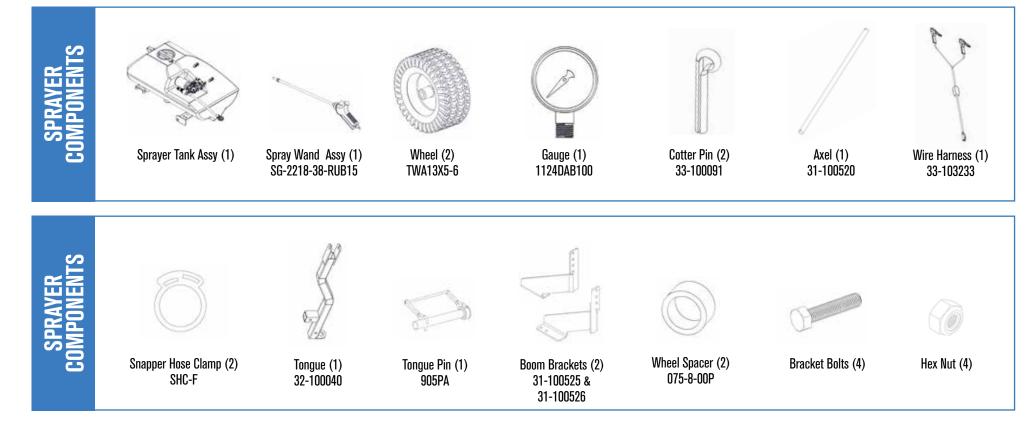
# **NOTE: SOME PARTS ARE**

THESE INSTRUCTIONS ARE FOR 24 GALLON TRAILER **SPRAYER MODELS.** 

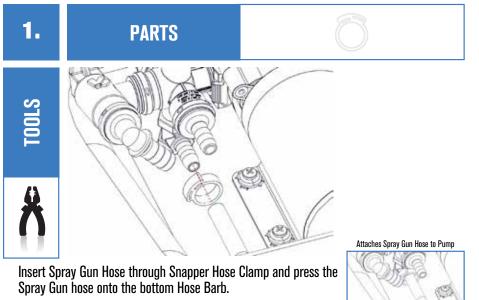
**36 GALLON TRAILER SPRAYER INSTRUCTIONS** CAN BE FOUND ON PAGE 8 OF THIS MANUAL.

## **INCLUDED HARDWARE**

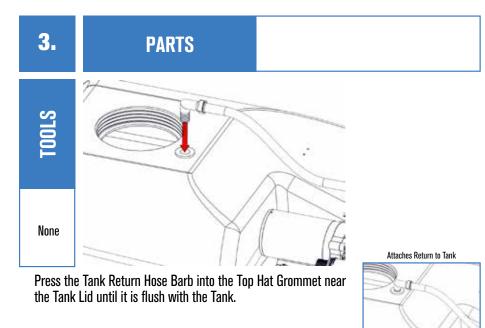
# **SHIPPED INSIDE THE TANK!**

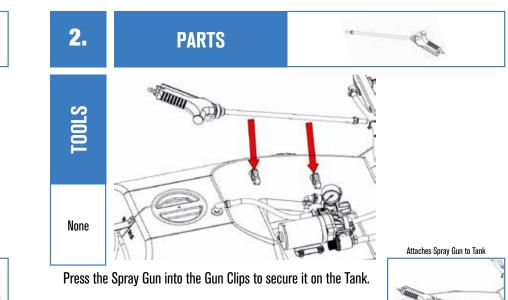


## **TRAILER SPRAYER ASSEMBLY**



Close Snapper Hose Clamp with Pliers.







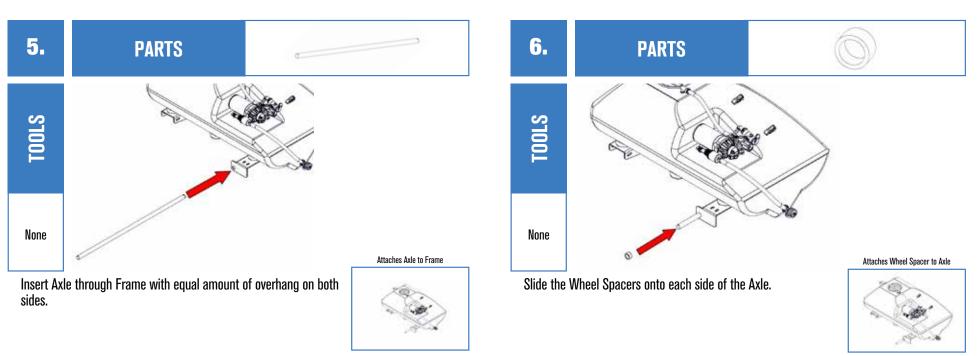
4. **PARTS** TOOLS amount of leakage.

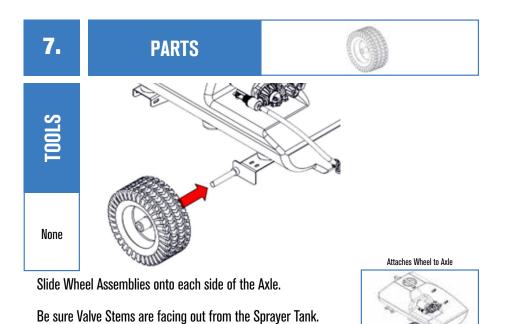
Twist Pressure Gauge, by hand, into open port on top of the Pressure Regulator Assembly until fully seated.

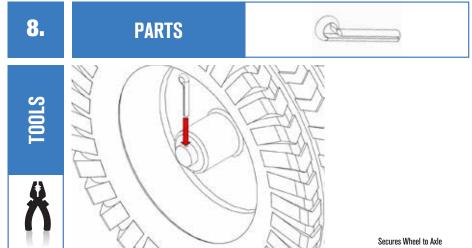
NOTE: The threads of the pressure gauge may require the use of Teflon Tape (not included) to prevent a small

Attaches Pressure Gauge to Pump







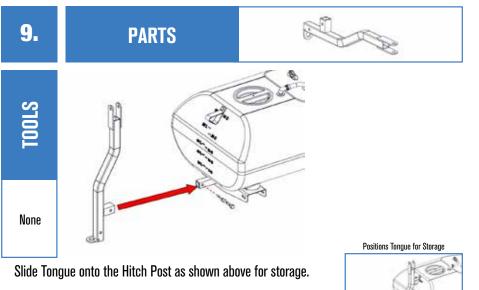


Insert the Cotter Pins through the Axle as shown above.

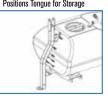
Use a Pliers to bend one end of each cotter pin to secure to Axle.

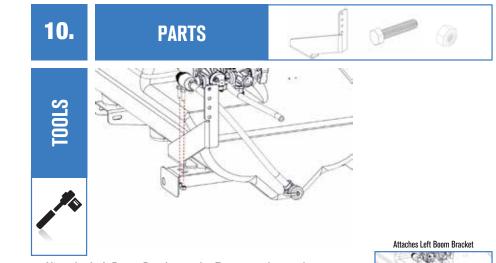


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Secure the Tongue with the included  $\ensuremath{\mathsf{Hitch}}\xspace$  Pin.

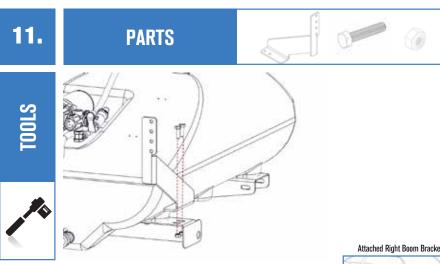




Align the Left Boom Bracket to the Frame as shown above.

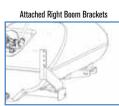
Insert Bracket Bolts and secure using Socket Wrench and Hex Nuts

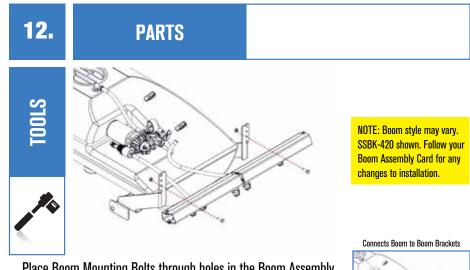




Align the Right Boom Bracket to the Frame as shown above.

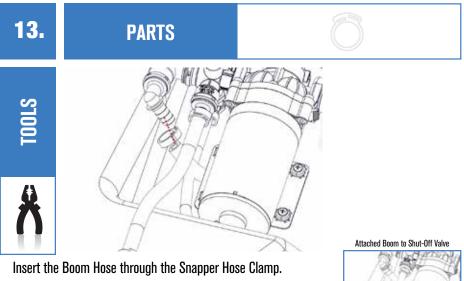
Insert Bracket Bolts and secure using Socket Wrench and Hex Nuts





Place Boom Mounting Bolts through holes in the Boom Assembly and into the Boom Brackets.

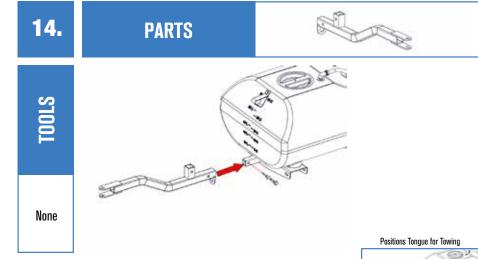
Secure using Socket Wrench and Hex Nuts.



Press the Boom Hose onto the open Elbow Hose Barb on the Boom Shut-Off Valve.

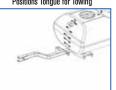
Close the Snapper Hose Clamp with Pliers.





Open the Hitch Pin and remove from the Tongue.

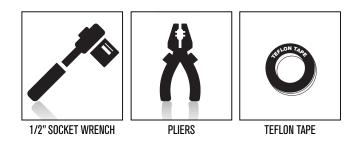
Change the Tongue position as shown above and reinsert the Hitch Pin to secure the Tongue for towing.



# **B. BREAKDOWNS** Sprayer Breakdowns available on Page 17.

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TOOLS ARE NOT INCLUDED WITH PURCHASE OF SPRAYER.



### **CLOSELY INSPECT ALL CONTENTS** IN THE SHIPPING CARTON

- If you have damaged components: Contact the freight company that delivered the unit to file a claim.
- If you have missing components: Contact us at 800.825.5397.

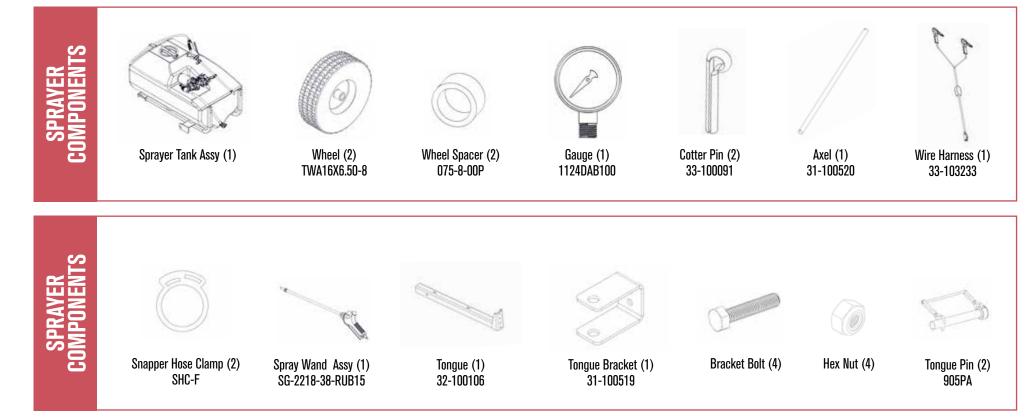
# **NOTE: SOME PARTS ARE**

THESE INSTRUCTIONS ARE FOR 36 GALLON TRAILER **SPRAYER MODELS.** 

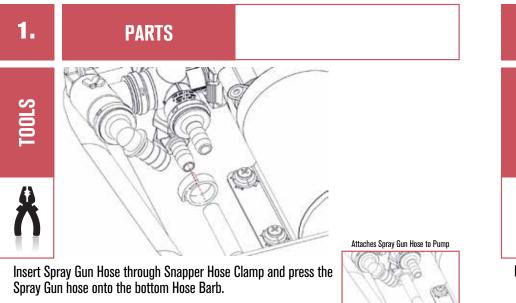
**24 GALLON TRAILER SPRAYER INSTRUCTIONS** CAN BE FOUND ON PAGE 3 **OF THIS MANUAL.** 

## **INCLUDED HARDWARE**

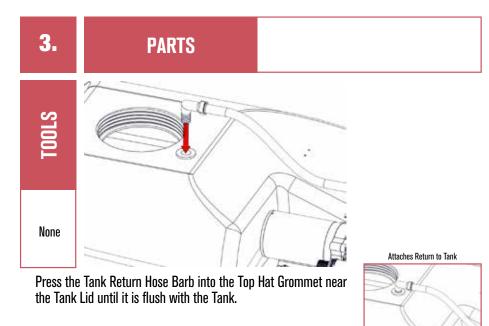
# **SHIPPED INSIDE THE TANK!**

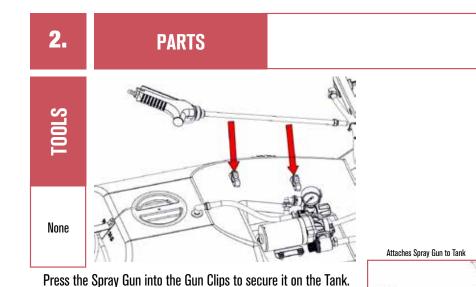


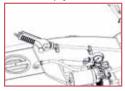
## **TRAILER SPRAYER ASSEMBLY**

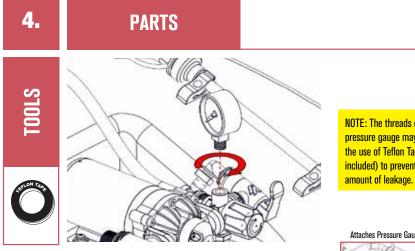


Close Snapper Hose Clamp with Pliers.







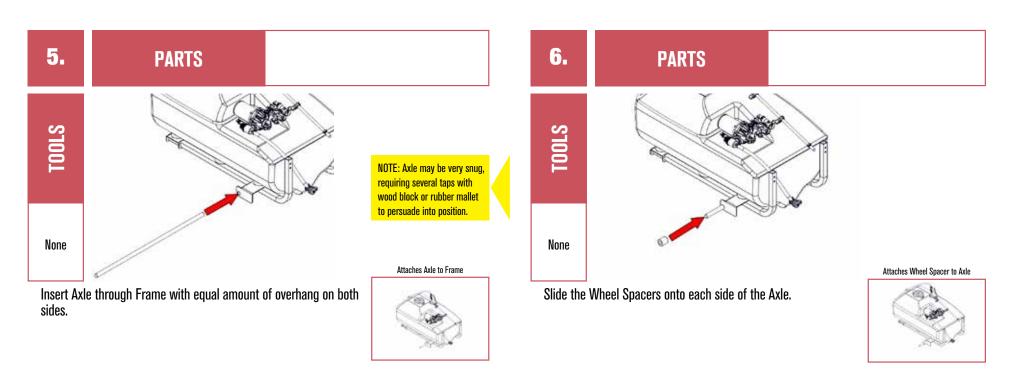


Twist Pressure Gauge, by hand, into open port on top of the Pressure Regulator Assembly until fully seated.

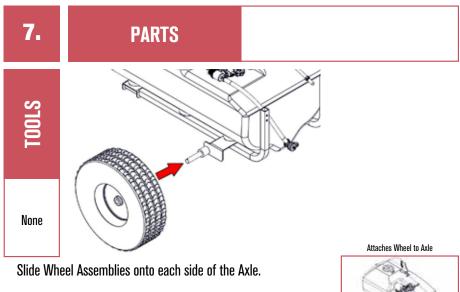
NOTE: The threads of the pressure gauge may require the use of Teflon Tape (not included) to prevent a small

Attaches Pressure Gauge to Pump

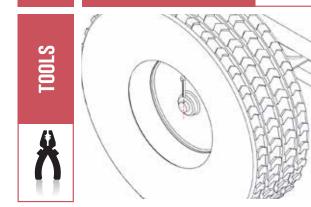




8.



Be sure Valve Stems are facing out from the Sprayer Tank.



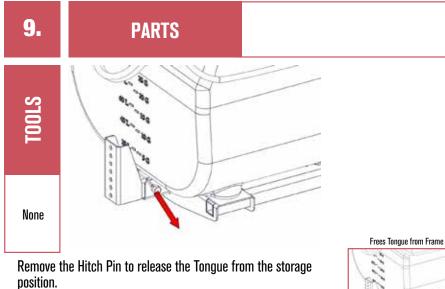
PARTS

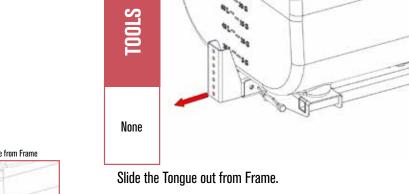
Insert the Cotter Pins through the Axle as shown above.

Use a Pliers to bend one end of each cotter pin to secure to Axle.



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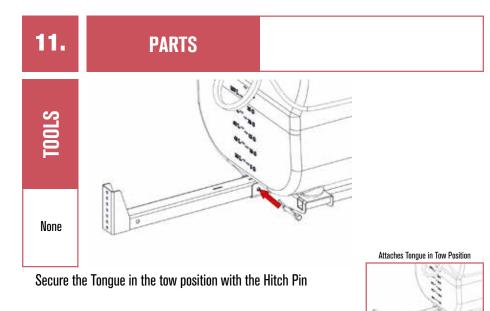


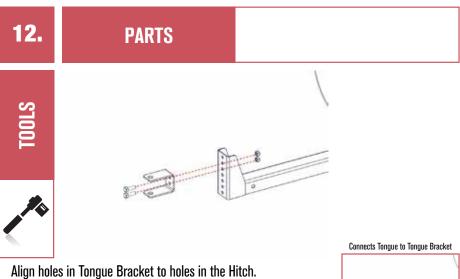
10.

Align tow position holes in the Tongue with the holes in the Frame.

**PARTS** 

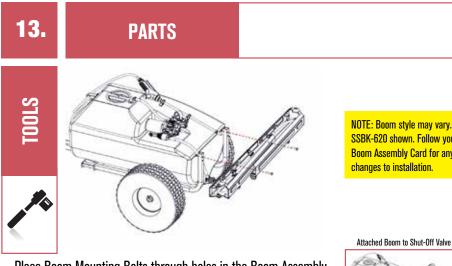






Insert Bracket Bolts and secure with Hex Nuts using Socket Wrench.





NOTE: Boom style may vary SSBK-620 shown. Follow your Boom Assembly Card for any

Place Boom Mounting Bolts through holes in the Boom Assembly and into the Boom Brackets

Secure using Socket Wrench and Hex Nuts.



**OPERATION - IMPORTANT SAFETY INFORMATION** 

Now that you have assembled your sprayer, there is some important safety and health information you need to know with regard to handling and spraying chemicals.



TAKE NOTE! THIS SAFETY ALERT SYMBOL FOUND THROUGHOUT THIS SECTION IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY AND THE SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN PROPERTY DAMAGE, INJURY OR DEATH.

B. **BREAKDOWNS** Sprayer Breakdowns available on Page 18.

**NOTE:** THE USE OF CORROSIVE OR FLAMMABLE CHEMICALS IN THIS SPRAYER IS HAZARDOUS AND WILL ALSO VOID YOUR WARRANTY.

#### **GENERAL CHEMICAL SAFETY**

## WARNING

Pesticides are hazardous chemicals. Heed the warning below and follow all instructions carefully. Improper handling of chemicals can result in serious injury or illness, or cause damage to humans, animals or the general environment.

#### **BEFORE SPRAYING**

- Test with Fresh Water: Before adding and spraying chemicals, always test sprayer with fresh water to make sure there are no cracks or leaks and equipment is performing correctly.
- **Sprayer Prep:** ALWAYS inspect and prepare the sprayer before use according to the directions provided in this manual.
- **Keep Sprayer Off:** Do not turn power on to the sprayer until ready to spray in order to avoid unintentional spray release.
- **Broadcast Nozzle Down:** Make sure the broadcast nozzle is oriented to spray straight down before starting the sprayer.
- Wind Speed: NEVER spray when wind exceeds 4 MPH in order to minimize spray drift.
- Clear Area: ALWAYS keep work area clear of people and pets. Post warning notices to
  restrict access by the public for the period recommended on chemical label.
- **Operator Age:** To operate this sprayer, you must be 16 years of age or older. Pesticides are extremely toxic to children.
- Chemical Label: ALWAYS READ and FOLLOW all chemical label instructions.
- State & Federal Laws: ALWAYS refer to state and federal regulations with regard to the application of a particular chemical you plan to use.
- Flammables: NEVER use any flammable chemicals, such as diesel fuel, in the sprayer.
- Corrosives: D0 NOT use corrosive chemicals, such as bleach, in the sprayer. They
  can weaken the sprayer and its parts, resulting in leaks. Always check with chemical
  manufacturer for compatibility with sprayer.
- **Emergency Procedures:** Before handling chemicals, carefully review the "Statement of Practical Treatment" on the chemical label.

#### **DURING SPRAYING**

- Over Application: DO NOT over apply pesticide. Apply at a rate recommended by chemical manufacturer. Excess pesticide can be dangerous to humans, damage desirable plants, and contaminate soil and water sources.
- Never Point Spray Gun: NEVER point the spray gun at people or animals.
- Children & Pets: ALWAYS exercise extra caution when spraying near areas accessible to children and pets.
- Eating & Smoking: DO NOT eat, drink, smoke, rub your eyes or touch any part of your bare skin while handling chemicals and spraying.
- Heat & Flames: DO NOT spray near open flames or sources of heat.
- Spills: ALWAYS clean up spills immediately per instructions on the chemical label.
- Unattended: ALWAYS turn off vehicle and set brake or block wheels, turn off power to sprayer, and relieve system pressure before leaving sprayer unattended.

#### AFTER SPRAYING

- **Clean Sprayer:** ALWAYS clean the sprayer immediately after use according to the directions provided in this manual.
- **Decontaminate:** ALWAYS decontaminate yourself immediately after you are finished with spraying and handling chemicals. Wash all exposed areas of the body with soap and water. Remove and launder clothing.
- **Chemical Disposal & Storage:** ALWAYS dispose or store remaining chemicals properly as recommended on the chemical label.
- **Health Monitoring:** Monitor the health of operators who are frequently exposed to pesticides, as recommended by the chemical label.



Chemical spills, sprayer leaks, personal contamination, and poisoning are accident situations which you may encounter. All require an immediate response. In the event these accidents take place, follow first aid instructions on the chemical label and contact poison control for further advice (1-800-222-1222). If victim collapses or isn't breathing CALL 911.

#### **OPERATION - PREPARING & USING SPRAYER**

If the sprayer has been used previously, it must be prepared BEFORE EACH SUBSEQUENT USE.



Read the following instructions carefully for inspecting and using the sprayer. Damaged or clogged equipment could result in leaks or uncontrolled spray. Leaks could result in injury to the operator or bystanders from chemical exposure, or cause damage to the environment.

**IMPORTANT NOTE:** This sprayer is not certified for use in dispensing potable water or other consumable liquids.

#### **PREPARING SPRAYER**

- **Review Safety Information:** Review safety information in this manual and manufacturer chemical label before use.
- **Sprayer Attachment:** Ensure the sprayer is securely attached to the vehicle.
- **Empty Tank:** Ensure the sprayer has been thoroughly flushed and drained of all residual chemical prior to uses.
- **Clean Suction Strainer:** Clean suction strainer of any chemical residue with fresh water. USE RUBBER GLOVES for extra safety.
- Inspect & Test: Inspect the tank and components for any cracks or leaks. Replace any damaged parts. IMPORTANT: After any repair, ALWAYS test for leaks with water one final time before use.
- **Check Drain Cap:** Before filling tank, ensure drain cap at bottom of tank is securely tightened.

#### **USING SPRAYER**

- Protective Equipment: ALWAYS wear protective equipment as directed on the chemical label.
- Assess Wind & Area Conditions: Before spraying, determine if wind conditions are suitable. DO NOT spray if wind speeds are greater than 4 MPH. DO NOT spray if bystanders are in the intended area and verify that area is in a well-ventilated outdoor area.
- **Power Off:** Before filling tank, make sure power to the sprayer and the vehicle is off and brakes are set to prevent unintended movement.
- **Filling Tank:** Remove sprayer tank lid and add chemical/water dilatation ratios that are called out by chemical label. Ensure chemical is thoroughly mixed with a stirring device and then securely thread tank lid back on sprayer tank.

#### **USING SPRAYER** (CONTINUED)

- **Broadcast Boom Valve:** Close broadcast boom valve to prevent accidental spray release.
- **Turn On Power:** Connect the wire harness to vehicle battery and turn the remote switch to the "On" position.

#### **SPOT SPRAYING**

- **Spot Spraying:** To spot spray, pull the gun trigger. Make sure nozzle of gun is pointed towards vegetation in need of spraying.
- **Adjustable Nozzle:** Twist the spray nozzle to adjust from a straight stream to wide pattern mist.

**Note:** It is not unusual for the operator to be exposed to chemical drips while adjusting the nozzle – use chemical resistant gloves when twisting.

#### **BROADCAST SPRAYING**

- **Open Boom Valve:** Open up boom valve to allow flow from tank to boom kit.
- Ensure Correct Pattern: Make sure boom nozzle is pointed straight down. If not, loosen the nozzle retaining nut and adjust orientation of the boom nozzle opening to point straight down.

**Note:** It is not unusual for the operator to be exposed to chemical drips while adjusting the broadcast nozzle. Chemical resistant gloves should be worn.

- **Open Boom Valve:** Open up boom valve to allow flow from tank to boom kit.
- **Uniform Coverage:** To ensure proper coverage, follow the separate boom kit manual that came with your sprayer.
- **Broadcast Spraying:** Turn the remote switch to the "ON" position to being spraying.

#### **OPERATION - CLEANING, DECONTAMINATING & STORAGE**

When done using the sprayer, it is always important to clean the sprayer and decontaminate yourself. Do not store the sprayer with chemicals in the tank, as it is unsafe and could also result in damage.



Clean-up and decontamination procedures must be followed after each use. Improper equipment clean-up and disposal of chemicals can result in dangerous chemical exposure to humans and the environment, as well as equipment damage. Personal decontamination is required after spraying to minimize unsafe exposure to chemicals and potential illness.

#### **CLEANING & DECONTAMINATING SPRAYER**

• **Drain Tank:** If there is excess pesticide left in tank, drain into a suitable container.

**Note:** when draining pesticides, be sure to wear protective gear such as rubber gloves and eye protection for increased safety.

- Unused Chemical: Properly store or dispose of unused chemical in its original, suitable container and make sure to follow chemical manufacturer's recommendations and according to local hazardous waste disposal regulations.
- Flush Sprayer: Flush sprayer per the chemical manufacturer's recommendations.
- **Decontaminate & Launder:** Decontaminate yourself after handling chemicals by removing clothing worn, washing exposed body parts with soap and water, and laundering clothing separately from other wash.

#### **SPRAYER STORAGE**

Prepare the sprayer for end-of-season storage by running RV anti-freeze through the system. This will keep internal parts lubricated, protect against corrosion, and keep the unit from freezing.

#### **IMPORTANT NOTE:** ALLOWING YOUR SPRAYER TO FREEZE, WITHOUT TAKING PROPER WINTERIZATION STEPS, VOIDS YOUR WARRANTY.



The sprayer will be damaged if it freezes. Protect the sprayer from freezing during storage by following instructions below.

#### **PREPARING SPRAYER FOR STORAGE**

- Add Anti-Freeze: Pour one gallon of RV anti-freeze into the sprayer tank.
- **Spray Briefly:** Turn on the pump motor and squeeze the gun trigger briefly until fluid sprays out.

#### **REMOVING SPRAYER FROM STORAGE**

- **Drain Anti-Freeze:** Drain the anti-freeze that is left in the tank through the tank drain port into a suitable container.
- Flush with Water: Fill tank with fresh water and have it run through system. Operate spray gun and boom until the system is completely flushed. Be sure to set up containers to capture the flushing of the anti-freeze.
- **Disposal:** Dispose of anti-freeze and flush water properly.

#### TROUBLESHOOTING

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



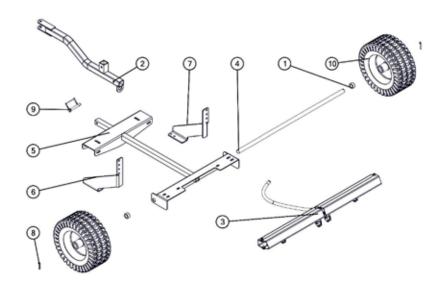
Before troubleshooting or attempting to service your pump or sprayer, read the following safety rules to avoid accidental exposure to chemicals and the possibility of electric shock.

#### **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 the tank and flush the sprayer with water as directed in the section Cleaning, Decontaminating & Storage.
- 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 sprayer.
   Note: Never try to unclog the sprayer nozzle by blowing through it.
- Test after Repairs: After repairs, ALWAYS test the sprayer for leaks with fresh water before using.

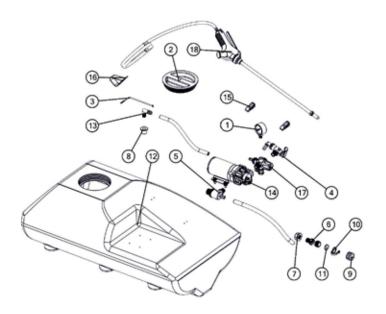
PROBLEM	CAUSE	SOLUTION
Pump Will Not Turn On	Bad Electrical Connection	Check Battery Connections
	Fuse Blown	Replace Fuse
	Short In Wire	Check Condition of Wires
	Low Voltage	Check Voltage
	Locked Drive	Replace Diaphragm Assembly
	Faulty Pressure Switch	Replace Pressure Switch
Pump Will Not Prime	Out of Product	Refill Supply Container
	Inlet Air Leak	Tighten Fittings or Replace Cracked Fitting
	Inlet/Outlet Tube Obstruction	Remove Obstruction
	Clogged Intake Valve	Remove Obstruction
	Low Voltage	Check Voltage
Low Pressure or Flow	Worn Spray Gun Nozzle	Replace Spray Gun
	Worn Boom Nozzle	Replace Boom Nozzle
	Worn Wobble Plate or Diaphragm	Replace Diaphragm Assembly
	Worn Pressure Switch	Replace Pressure Switch
	Inlet Air Leak	Tighten Fittings or Replace Cracked Fitting
	Inlet/Outlet Tube Obstruction	Remove Obstruction
	Clogged Intake Valve	Remove Obstruction
	Low Voltage	Check Voltage
Pump Leaks	Loose Fasteners	Tighten Fasteners
	Pump Seals Degraded	Replace Pump Head Assembly
	Leak In Diaphragm	Replace Diaphragm Assembly
Poor Spray Distribution	Clogged Intake Tube	Remove Obstruction
	Clogged Suction Strainer	Clean Suction Strainer
	Worn Spray Gun Nozzle	Replace Spray Gun
Pump Cycles While Not Spraying	Leak In the System	Tighten Leaking Hose Clamps, Fittings or Replace Spray Gun
	Faulty Pressure Switch	Replace Pressure Switch
	Low Voltage	Check Voltage
	Air Trapped In System	Purge Air From System
Rough Operation	Flexible Mounting Surface	Mount Pump On Rigid Surface
	Loose Pump Head	Tighten Fasteners
	Compressed Base Feet	Decompress Base Feet
	Rigid Plumbing	Plumb Pump with Flexible Pluming

#### 24 GALLON TRAILER FRAME BREAKDOWN



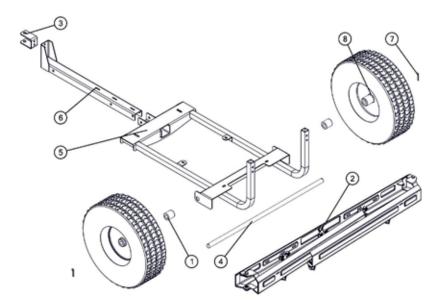
ID	Part Number	Description	Qty
1	075-8-00P	Wheel Spacer	2
2	32-100040	Two Position Tongue	1
3	34-140184 or	420 Boom Assembly (shown) or	1
	34-100001	240 Boom Assembly	1
4	31-100520	Axle	1
5	32-100140	24 Gallon Lawn Sprayer Frame	1
6	31-100525	Left Boom Bracket	1
7	31-100526	Right Boom Bracket	1
8	33-100091	Cotter Pin	2
9	905PA	Lock Pin	1
10	TWA13X5-6	13" Wheel Assembliy	2

### 24 GALLON TRAILER TANK BREAKDOWN



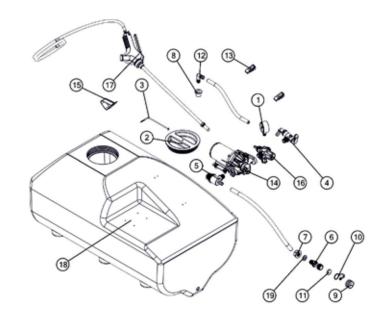
ID	Part Number	Description	Qty
1	1124DAB100	0-100 PSI Pressure Gauge	1
2	31-100340	Recessed Tank Lid	1
3	31-100341	Tank Lid Tether	1
4	34-140161	Boom Shut-Off Valve	1
5	34-140164	Inline Strainer	1
6	31-400012	Inlet/Drain Fitting	1
7	31-400013	Inlet/Drain Fitting Nut	1
8	33-100098	Top Hat Grommet	1
9	33-103218	Drain Cap	1
10	33-103219	Drain Cap Tether	1
11	33-103220	Drain Cap Gasket	1
12	33-103718	24 Gallon Lawn Sprayer Tank	1
13	3EL12HB	1/2" HB x 1/2" HB Elbow Fitting	1
14	EF2200-QA	Quick Attach 2.2 GPM Everflo Pump	1
15	GC-100-KIT	Gun Clip Kit	1
16	RTS2.0-14.125	Hose Strap	1
17	34-140158	Pressure Regulator Assembly	1
18	SG-2218-38-RUB15	Deluxe Spray Gun Assembly	1

#### 36 GALLON TRAILER FRAME BREAKDOWN



ID	Part Number	Description	Qty
1	075-8-00P	Wheel Spacer	2
2	34-140183	620 Boom Assembly	1
3	31-100519	Tongue Bracket	1
4	31-100520	Axle	1
5	32-100140	Frame	1
6	32-100141	Tongue	1
7	33-100091	Cotter Pin	2
8	TWA16X6.50-8-34	16" Wheel Assembly	2

#### **36 GALLON TRAILER TANK BREAKDOWN**



ID	Part Number	Description	Qty
1	1124DAB100	0-100 PSI Pressure Gauge	1
2	31-100340	Recessed Tank Lid	1
3	31-100341	Tank Lid Tether	1
4	34-140161	Boom Shut-Off Valve	1
5	34-140164	Inline Strainer	1
6	31-400012	Inlet/Drain Fitting	1
7	31-400013	Inlet/Drain Fitting Nut	1
8	33-100098	Top Hat Grommet	1
9	33-103218	Drain Cap	1
10	33-103219	Drain Cap Tether	1
11	33-103220	Drain Cap Gasket	1
12	3EL12HB	1/2" HB x 1/2" HB Elbow Fitting	1
13	GC-100-KIT	Gun Clip Kit	1
14	EF3000-QA	Quick Attach 3.0 GPM Everflo Pump	1
15	RTS2.0-14.125	Hose Strap	1
16	34-140158	Pressure Regulator Assembly	1
17	SG-2218-38-RUB15	Deluxe Spray Gun Assembly	1
18	33-103719	36 Gallon Sprayer Tank	1
19	W406V	Vinyl Washer	1

## PLEASE FOLLOW ALL WARNINGS IN THIS MANUAL, FAILURE TO DO SO COULD RESULT IN PROPERTY DAMAGE & INJURY.



