



**JOHN DEERE**

# **OPERATORS MANUAL**

## **45 Gallon Sprayer**

LP208521  
Supplier 3-515  
10/02/2026  
English

# Introduction

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## Introduction

### Using Your Operator's Manual

Read this entire operator's manual, especially the safety information, before operating.

This manual is an important part of your machine. Keep all manuals in a convenient location so they can be accessed easily.

Use the safety and operating information in the attachment operator's manual, along with the machine operator's manual, to operate and service the attachment safely and correctly.

If your attachment manual has a section called Preparing the Machine, it means that you will have to do something to your tractor or vehicle before you can install the attachment. The Assembly and Installation sections of this manual provide information to assemble and install the attachment to your tractor or vehicle. Use the Service section to make any needed adjustments and routine service to your attachment.

If you have any questions or concerns with the assembly, installation, or operation of this attachment, see your local John Deere dealer.

Warranty information on this John Deere attachment can be found in the warranty statement in this manual.

# Product Compatibility

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## Product Compatibility

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This Sprayer is designed for use with John Deere Gator™ Utility Vehicles.

Contact your John Deere dealer for specific utility vehicle compatibility information.

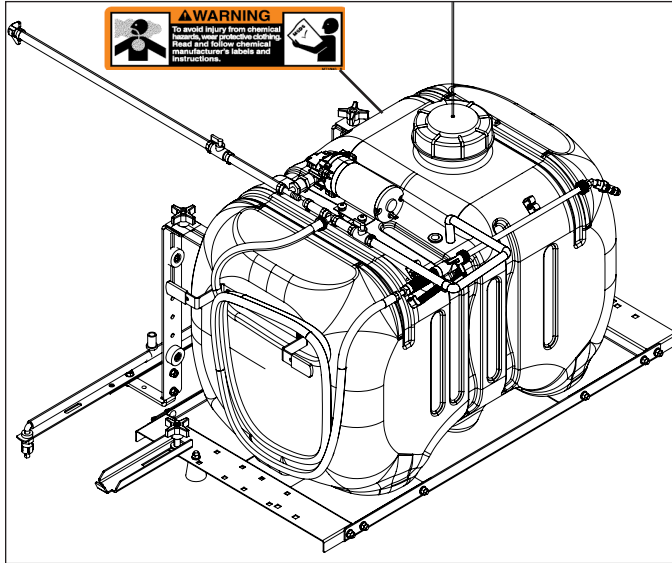
*Original Instructions. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication.*

*The right is reserved to make changes at any time without notice.*

# Safety Labels

## Safety Labels

### Safety Label Location



## WARNING

MT3980



- To avoid injury from chemical hazards, wear protective clothing. Read and follow chemical manufacturer's labels and instructions.

### Understanding The Machine Safety Labels



The machine safety labels shown in this section are placed in important areas on your machine to draw attention to potential safety hazards.

On your machine safety labels, the words **DANGER**, **WARNING**, and **CAUTION** are used with this safety-alert symbol. **DANGER** identifies the most serious hazards.

The operator's manual also explains any potential safety hazards whenever necessary in special messages that are identified with the word, **CAUTION**, and the safety-alert symbol.

Replace missing or damaged safety labels. Use this operator's manual for correct safety label placement.

There can be more safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

### French or Spanish Safety Labels and Operator's Manual

Operator's manuals and safety labels with content in French or Spanish are available for this machine through authorized John Deere dealers. See your John Deere dealer.

# Safety

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## Safety

### Read Safety in Machine Operator's Manual

Read the general safety operating precautions in your machine operator's manual for additional safety information.

### Operating Safely

- Read the machine and attachment operator's manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the machine and disengage the controls quickly.
- Do not let children or an untrained person operate machine.
- Make any necessary adjustments before you operate. Never attempt to make any adjustments while the engine is running, unless if recommended in adjustment procedure.
- Take all possible precautions when leaving the machine unattended. Shut off the engine before making any repairs, adjustments, or inspections. Lower the attachment, lock the parking brake, stop the engine, and remove the key.
- Look behind machine before you back up. Back up carefully.
- Do not let anyone, especially children, ride on machine or attachment. Riders are subject to injury such as being struck by foreign objects and being thrown off. Riders may also obstruct the operator's view, resulting in the machine being operated in an unsafe manner.
- Use only attachments and accessories approved by the manufacturer of this product.
- If the machine vibrates abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
- Always refer to the Storage section of the operator's manual for important details if storing this product for a long period of time.
- Keep people and pets out of the work area. Stop machine if anyone enters the area.
- If you hit an object, stop the machine and inspect it. Make repairs before you operate. Keep machine properly maintained and in good working order. Keep all shields and guards in place.
- Always inspect the sprayer completely before and after each use. Before pressurizing the system, check to be sure all fittings and hoses are tightly installed. Be sure guards and shields are in good condition and fastened in place. Make any necessary adjustments before you operate.
- Never use the sprayer during windy conditions.

- Always release pressure in the system before filling, cleaning or servicing the sprayer.
- Do not put nozzle tip or other sprayer parts to your lips to blow out dirt.
- Use compressed air.
- If the sprayer is mounted to the bed of a utility vehicle, never raise the bed with the sprayer installed. Empty the sprayer and remove it from the bed if you need to raise the bed for any reason.

### Parking Safety

1. Stop vehicle on a level surface, not on a slope.
2. Lock park brake.
3. Stop engine.
4. Remove key.
5. Before you leave the operator's seat, wait for engine and all moving parts to stop.

### Mix and Handle Chemicals Safely

- It is best to wear full cover clothing and always wear protective goggles and rubber gloves to protect yourself while handling chemicals.
- Follow instructions on chemical container labels.
- Open all chemical containers carefully, using proper tools.
- Open, pour, weigh and mix chemicals in a well-ventilated area.
- Reserve all equipment used for the application of chemicals exclusively for that purpose.
- Prohibit all smoking, drinking and eating food in chemical-handling area.
- It is a good practice to take a soapy shower immediately after the using the sprayer to apply chemicals.
- Wash all clothing worn when using chemicals separately in the laundry after spraying is completed.

### Read Chemical Container Label

- Chemicals can be dangerous. Improper selection or use can injure persons, animals, plants, soils or other property. Select the right chemical for the job and handle and apply with care.
- Read the instructions, precautions, and warnings on the container label before opening. Use the product strictly according to label directions for specific applications, in the amounts specified, at the times specified and only when needed.
- Keep the container closed tightly except when preparing the mix.

# Safety

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- Do not remove labels from chemical containers. Store all chemicals in their original containers.
- Do not mix chemicals unless stated on the container label.
- Store chemicals when not in use according to the container label.

## Handle Chemical Products Safely

- Direct exposure to hazardous chemicals can cause serious injury.
- Potentially hazardous chemicals used with John Deere equipment include pesticides, herbicides and fungicides.
- A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.
- The MSDS should be obtained from the chemical dealer at the time of the chemical purchase.
- Check the MSDS before beginning any job using a hazardous chemical.
- Know exactly what the risks are and how to do the job safely. Always wear recommended personal protection equipment.

- Securely support any machine or attachment elements that must be raised for service work. Use jack stands or lock service latches to support components when needed.
- Never run engine unless park brake is locked.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Replace all worn or damaged safety and instruction decals.
- Check all hardware at frequent intervals to be sure the equipment is in safe working condition.
- Do not modify machine or safety devices. Unauthorized modifications to the machine or attachment may impair its function and safety.

## Practice Safe Maintenance

- Only qualified, trained adults should service this machine.
- Understand service procedure before doing work. Keep area clean and dry.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- Never lubricate, service or adjust the machine or attachment while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- Keep hands, feet, clothing, jewelry, and long hair away from any moving parts, to prevent them from getting caught.
- Lower any attachment completely to the ground or to an existing attachment mechanical stop before servicing the attachment. Disengage all power and stop the engine. Lock park brake and remove the key. Let machine cool.
- Disconnect battery or remove spark plug wire (for gasoline engines) before making any repairs.
- Before servicing machine or attachment, carefully release pressure from any components with stored energy, such as hydraulic components and springs.
- Release hydraulic pressure by lowering attachment or cutting units to the ground or to a mechanical stop and move hydraulic control levers.

# Safety

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## Wear Appropriate Clothing



- Wear close fitting clothing and safety equipment appropriate for the job.
- Certain operating conditions may dictate that the operator and any passenger wear appropriate safety equipment while operating the vehicle. Be prepared for any existing and potential conditions before operating machine.
- Local safety or insurance regulations may require additional safety equipment such as eye protection or a hard hat.
- Always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- Wear proper clothing and safety equipment while handling chemicals or using the sprayer. Refer to the MSDS for the chemicals being used to be sure the proper personal protection equipment is being used.

## Avoid High Pressure Fluids



- Hydraulic hoses and lines can fail due to physical damage, kinks, age, and exposure.
- Check hoses and lines regularly. Replace damaged hoses and lines.
- Hydraulic fluid connections can loosen due to physical damage and vibration. Check connections regularly. Tighten loose connections.
- Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.
- Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.
- If an accident occurs, see a doctor immediately.

## Dispose of Chemicals Properly

- Proper disposal of excess spray material is very important. If you have excess tank solution, it is best to dilute it with water and apply it to the area you previously treated.
- Never dump solution into a drain or near a lake or stream.
- Chemicals containers should be triple-rinsed, with the rinse water added to the sprayer tank. Do not burn empty chemical containers. Dispose of containers at recycling centers.

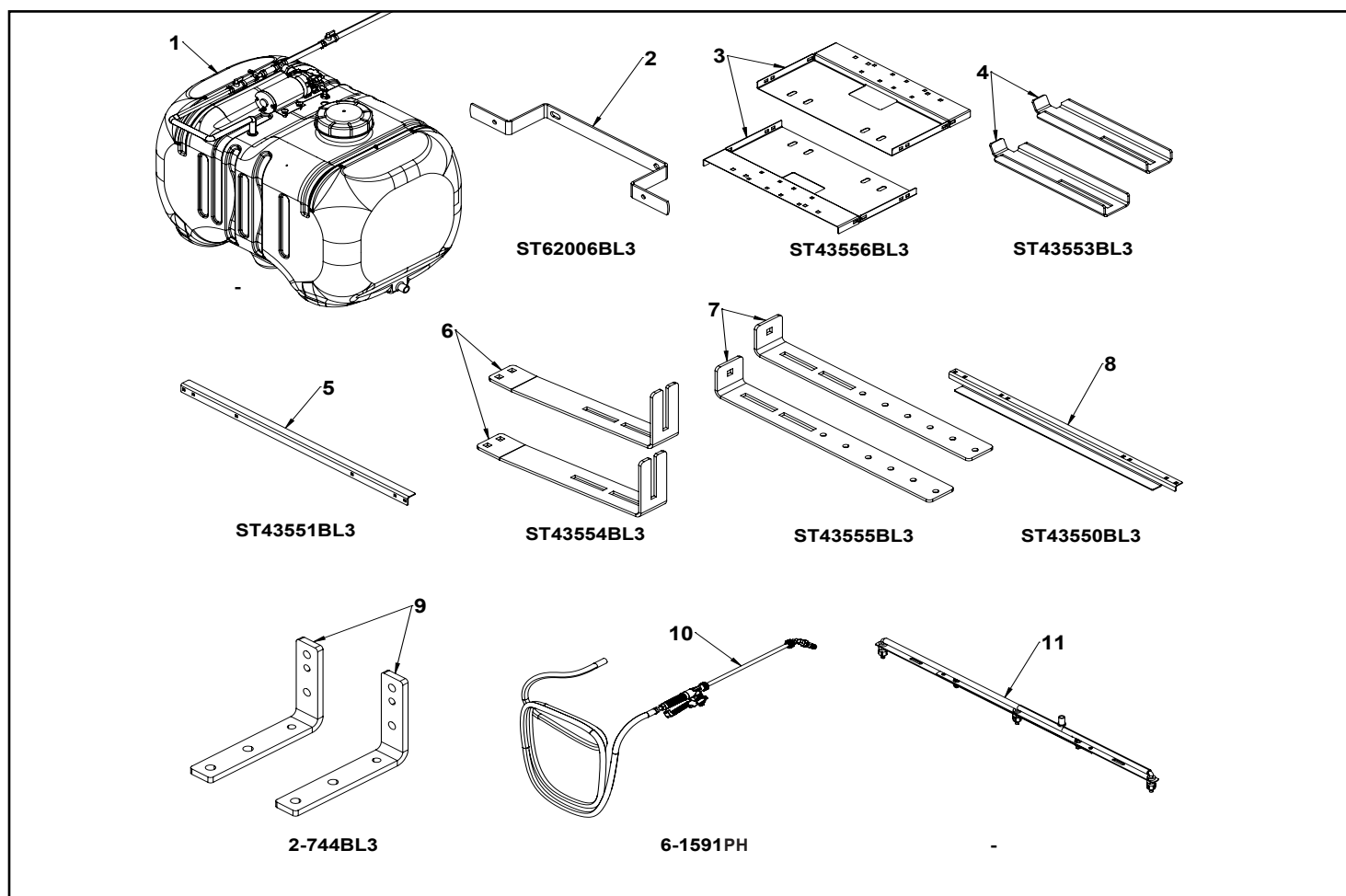
## Handling Waste Product and Chemicals

Waste products, such as, used oil, fuel, coolant, brake fluid, and batteries, can harm the environment and people:

- Do not use beverage containers for waste fluids - someone may drink from them.
- See your local Recycling Center or authorized dealer to learn how to recycle or get rid of waste products.
- A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques. The seller of the chemical products used with your machine is responsible for providing the MSDS for that product.

# Assembly

## Parts in Carton



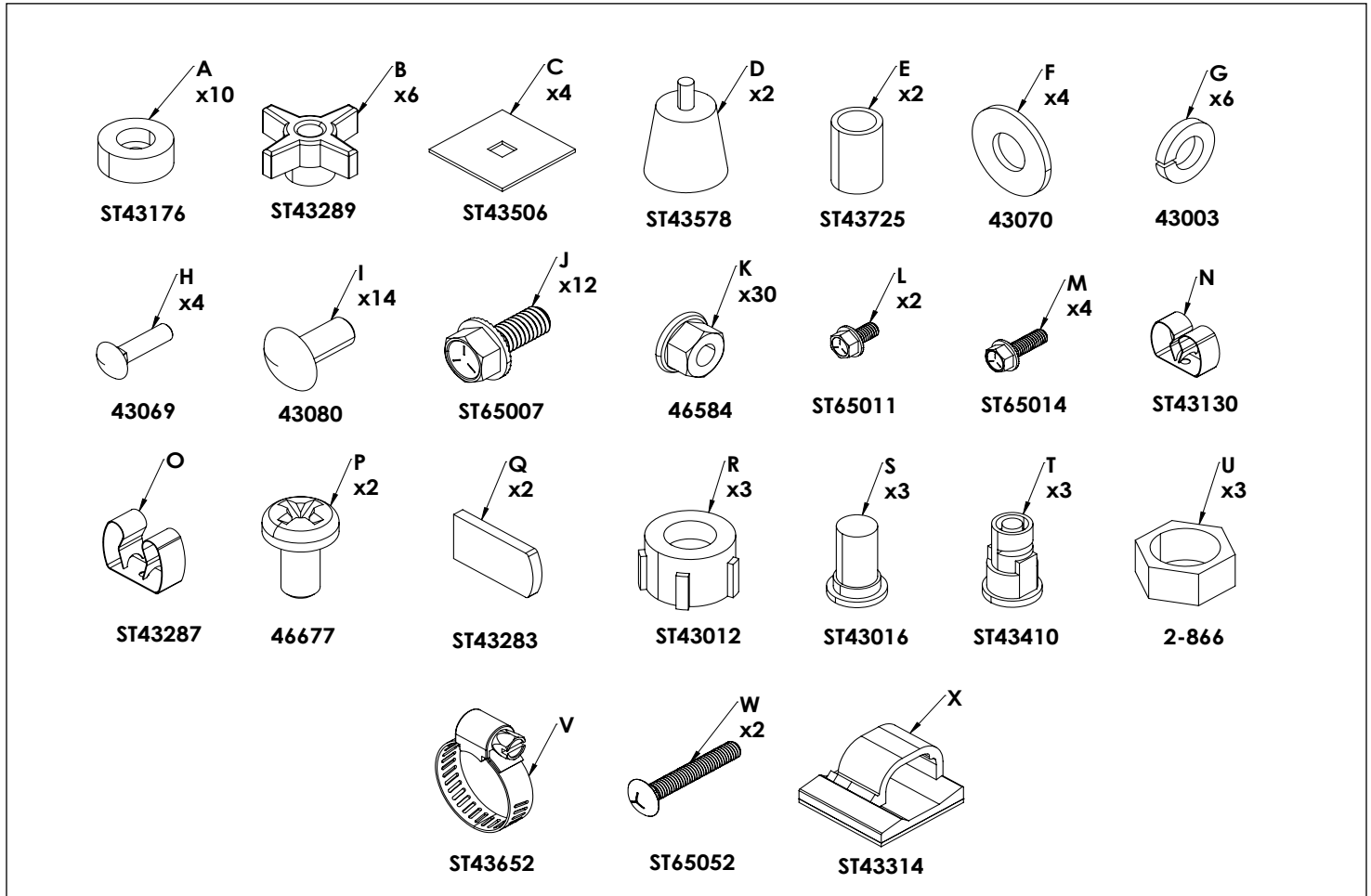
Parts not drawn to scale

## COMPONENTS

| REF | PART NO    | DESCRIPTION              | QTY |
|-----|------------|--------------------------|-----|
| 1   | —          | SPRAYER ASSEMBLY         | 1   |
| 2   | ST62006BL3 | HOSE WRAP BRACKET        | 1   |
| 3   | ST43556BL3 | TANK SUPPORT 25-45 GATOR | 2   |
| 4   | ST43553BL3 | ANCHOR CHANNEL           | 2   |
| 5   | ST43551BL3 | FRONT ANGLE              | 1   |
| 6   | ST43554BL3 | INNER BOOM SUPPORT       | 2   |
| 7   | ST43555BL3 | OUTER BOOM SUPPORT       | 2   |
| 8   | ST43550BL3 | REAR ANGLE               | 1   |
| 9   | 2-744BL3   | BOOM BRACKETS            | 2   |
| 10  | 6-1591PH   | ASS'Y, WAND HOSE         | 1   |
| 11  | -          | BOOM SPRAYER             | 1   |

# Assembly

## Parts Bag Contents



## COMPONENTS

| REF | PART NO | DESCRIPTION                    | QTY | REF | PART NO | DESCRIPTION                  | QTY |
|-----|---------|--------------------------------|-----|-----|---------|------------------------------|-----|
| A   | ST43176 | RUBBER BUMPER                  | 10  | T   | ST43410 | SPRAY TIP TF-VP3             | 3   |
| B   | ST43289 | KNOB, 3/8" LOCKING             | 6   | U   | 2-866   | NUT, 11/16" NOZZLE RETAINING | 3   |
| C   | ST43506 | SQUARE PLATE                   | 4   | V   | ST43652 | HOSE CLAMP, 1/2" SCREW TYPE  | 1   |
| D   | ST43578 | BUMPER, RUBBER                 | 2   | W   | ST65052 | BOLT, CARRIAGE 3/8" X 2-1/2" | 2   |
| E   | ST43725 | SPACER 3/8" ID X 3/4" LONG     | 2   | X   | ST43314 | CLIP, PLASTIC WIRE HARNESS   | 1   |
| F   | 43070   | WASHER, .438 X 1 X .083        | 4   |     |         |                              |     |
| G   | 43003   | WASHER, LOCK 3/8               | 6   |     |         |                              |     |
| H   | 43069   | BOLT, CARR 3/8-16 X 1-1/2 GR5  | 4   |     |         |                              |     |
| I   | 43080   | BOLT, CARR 5/16-18 X 3/4 GR5   | 14  |     |         |                              |     |
| J   | ST65007 | BOLT, HEX FLANGE 5/16-18 X 3/4 | 12  |     |         |                              |     |
| K   | 46584   | NUT, HEX 5/16-18 WHIZ LOCK     | 30  |     |         |                              |     |
| L   | ST65011 | BOLT, HEX FLANGE 5/16-18 X 5/8 | 2   |     |         |                              |     |
| M   | ST65014 | BOLT, HEX FLANGE 5/16-18 X 1   | 4   |     |         |                              |     |
| N   | ST43130 | SPRAY WAND HOLDER, SMALL       | 1   |     |         |                              |     |
| O   | ST43287 | SPRAY WAND HOLDER, LARGE       | 1   |     |         |                              |     |
| P   | 46677   | SCREW, 10-24 X 3/8 PL          | 2   |     |         |                              |     |
| Q   | ST43283 | RUBBER CAP .125 X 1 X 2        | 2   |     |         |                              |     |
| R   | ST43012 | TIP FITTING CAP NUT            | 3   |     |         |                              |     |
| S   | ST43016 | SPRAY TIP SCREEN W/CHECK       | 3   |     |         |                              |     |

# Assembly

## STEP 1A: (SEE FIGURE 1A)

- Place the tank supports (3) as shown in the figure (1A).
- Attach the rear angle (8) to the tank support (3).
- Use two bolts (I) and two hex nuts (K) each side to secure the assembly.

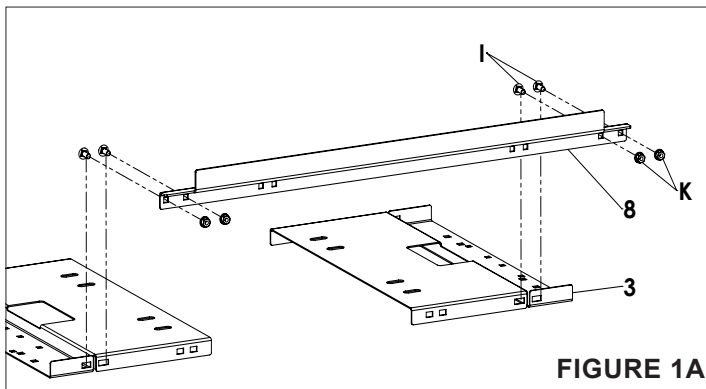


FIGURE 1A

## STEP 1B: (SEE FIGURE 1B)

- Attach the front angle (5) to the tank support (3).
- Use three bolts (I) and three hex nuts (K) each side to secure the assembly.

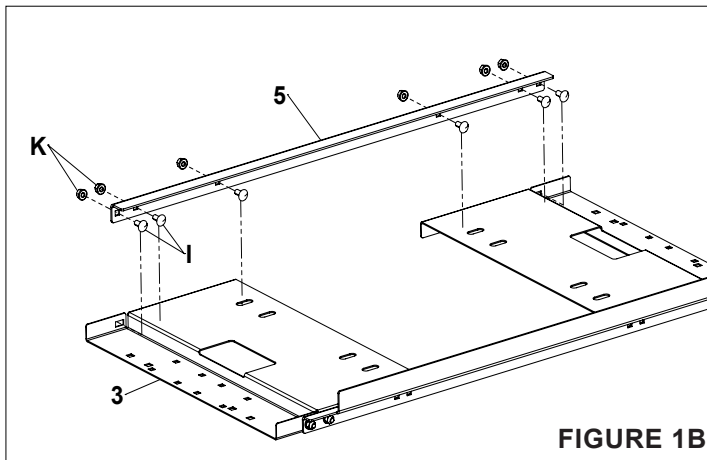


FIGURE 1B

## STEP 2: (SEE FIGURE 2)

- Attach the inner boom supports (6) on the assembly.
- Secure boom support (6) with two bolts (I), two hex nuts (K).
- Place the bumper rubber (A) on to the boom supports (6) use one hex bolt (J) and one hex nut (K).
- Repeat on other side.

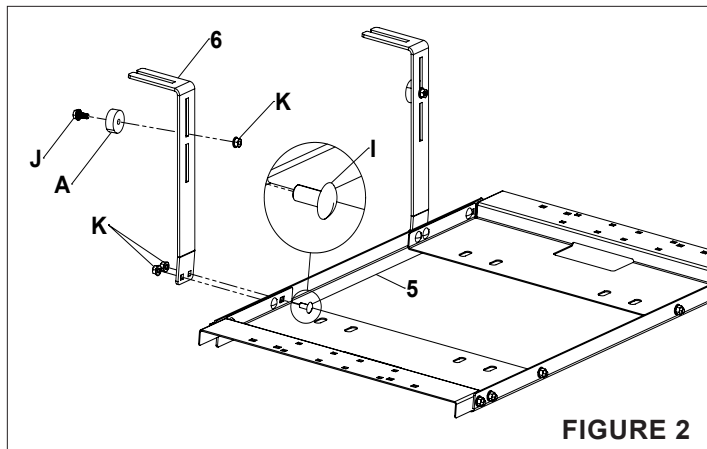


FIGURE 2

## STEP 3: (SEE FIGURE 3)

- Attach the hose wrap bracket (2) to the tank (1) using two 5/16" hex flange bolts (L).
- Install the rubber caps (Q) onto both ends of the hose wrap bracket (2) as shown in Figure 3.

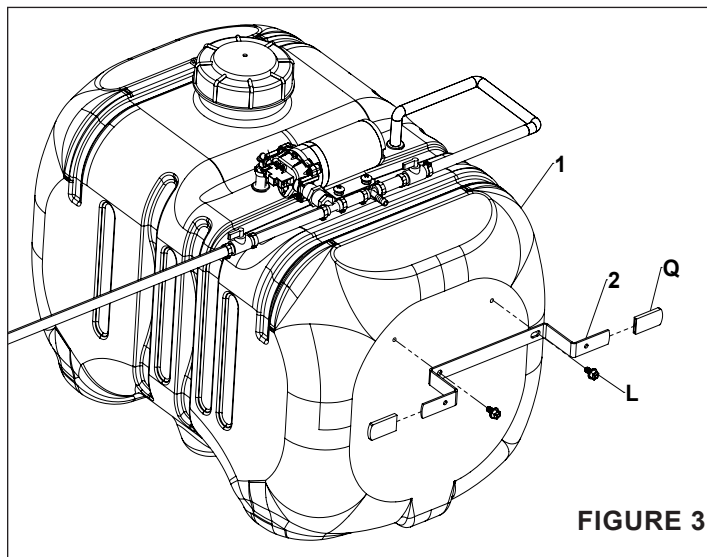


FIGURE 3

# Assembly

## STEP 4: (SEE FIGURE 4)

- Attach spray wand holders (N) & (O) to the tank (1) using two truss head screws (P).

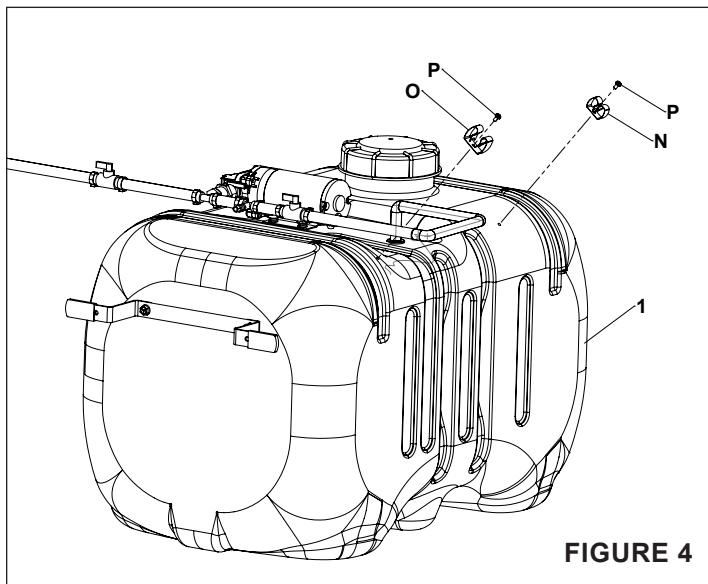


FIGURE 4

## STEP 6: (SEE FIGURE 6)

- Attach bumper rubber (D) to both sides under Gator tank support (3) using hex nuts (K) as shown in Figure 6.

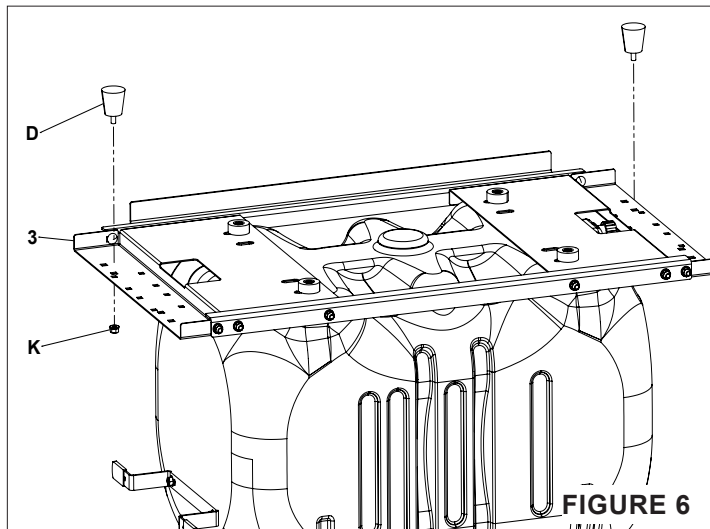


FIGURE 6

## STEP 5: (SEE FIGURE 5)

- Invert sprayer tank and loosely install tank supports (3) as shown with four 5/16 flange head bolts (J) and rubber bumper (A).

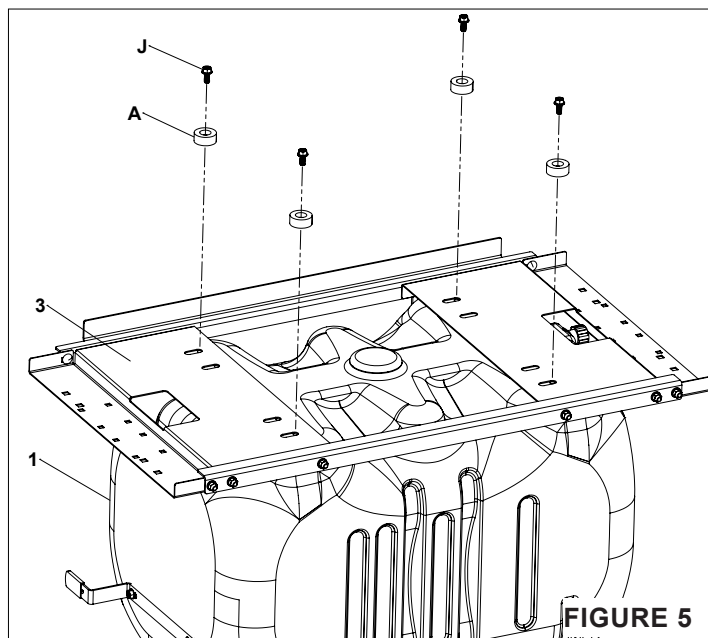


FIGURE 5

# Assembly

## Boom Mounting Assembly

### Boom Support Bracket Assembly

#### STEP 7: (SEE FIGURE 7)

- Lower tailgate, center sprayer in Gator bed with rear angle (8), inserted between bed and tailgate. Be sure rear angle is tight against bed.

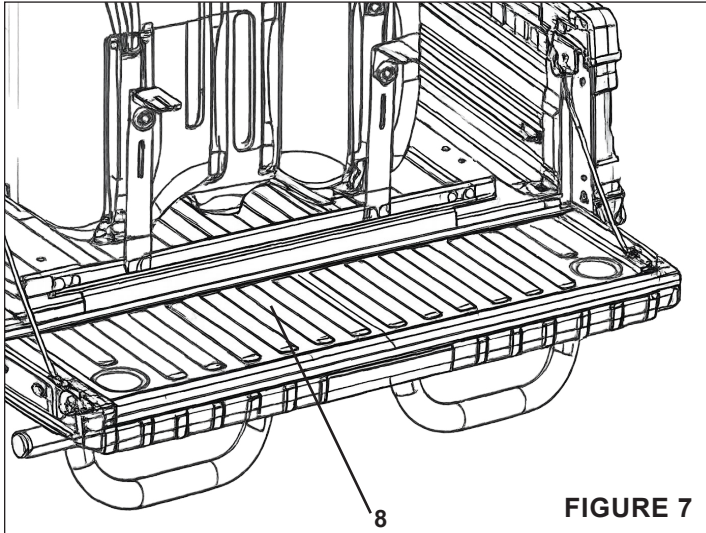


FIGURE 7

#### STEP 8: (SEE FIGURE 8)

- Assemble anchor channel (4) in the following order.
  - Insert the carriage bolt through the frame (W), anchor channel (4), and 3/8" washer (F). Install the support spacer (E), 3/8" lock washer (G), and locking knob (B).
- Extend the anchor channels (4) until the lip is positioned underneath the cargo mount anchor.
- Secure the anchor channels using the locking knobs (B), then close the tailgate.

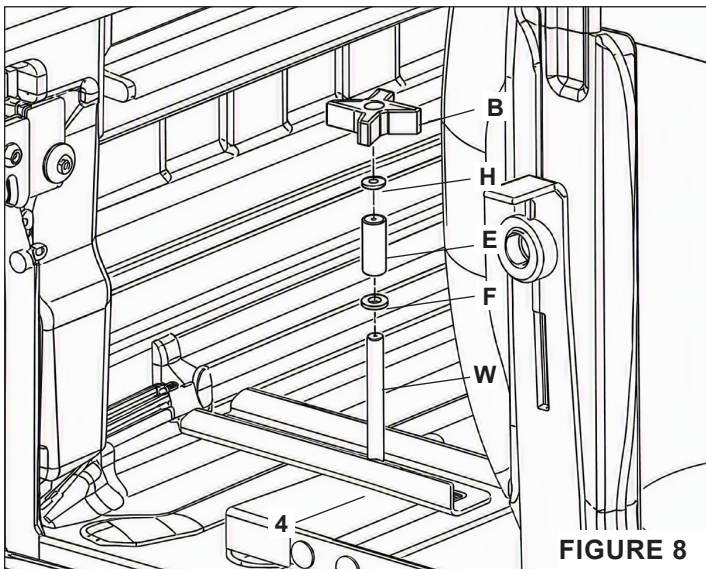


FIGURE 8

## Boom Mounting for Deluxe Cargo Box

#### STEP 9: (SEE FIGURE 9)

- Install rubber bumper (A) in outer boom support bracket (7) as shown with a 5/16 flange bolt (J) and nut (K).
- Install two rubber feet on remaining outer boom support bracket, as shown in the figure.

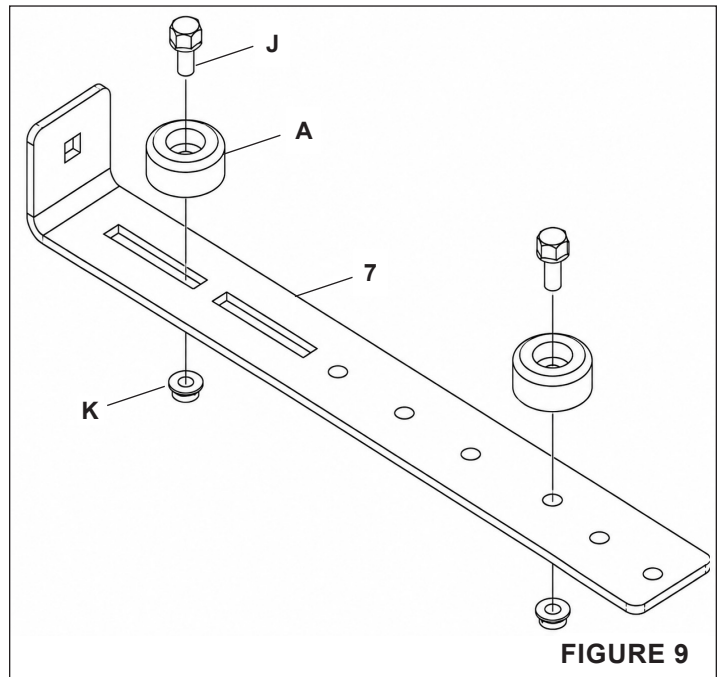


FIGURE 9

#### STEP 10: (SEE FIGURE 10)

- Loosely install locking knobs (B) on outer boom support brackets and assemble in following order:
- 3/8 carriage bolt (H) from bottom, square plate (C), 3/8 lock washer (G), locking knob (B) as shown in Figure 10.

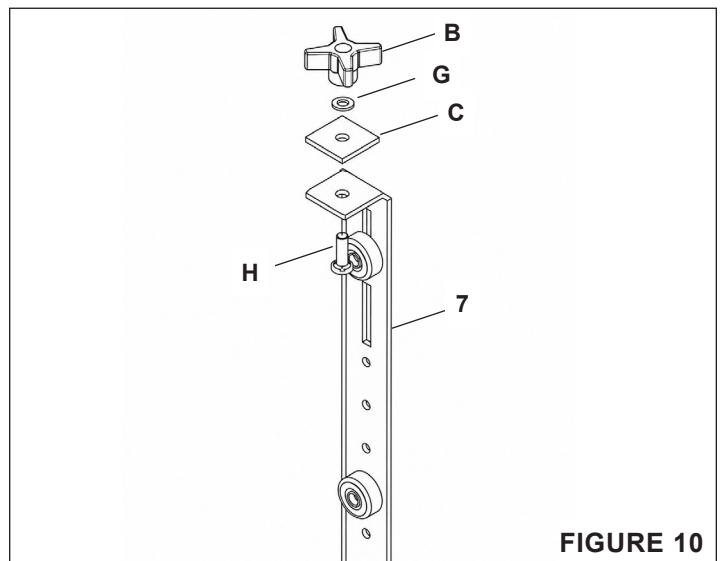
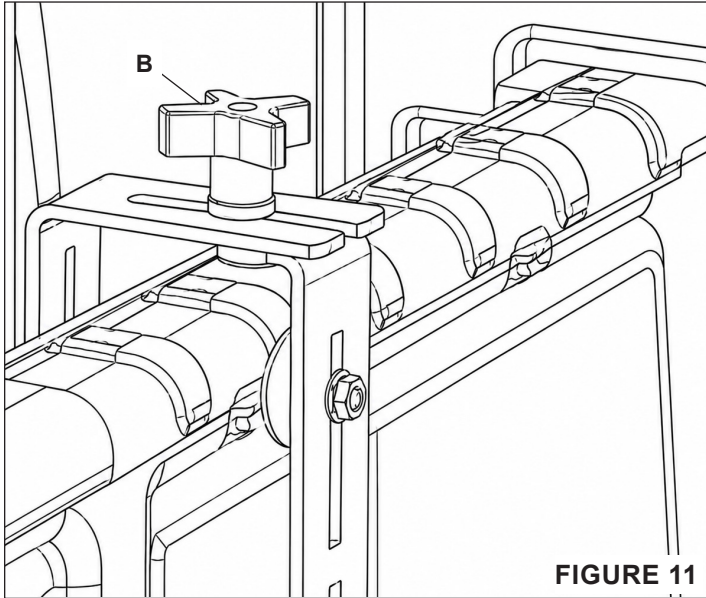


FIGURE 10

# Assembly

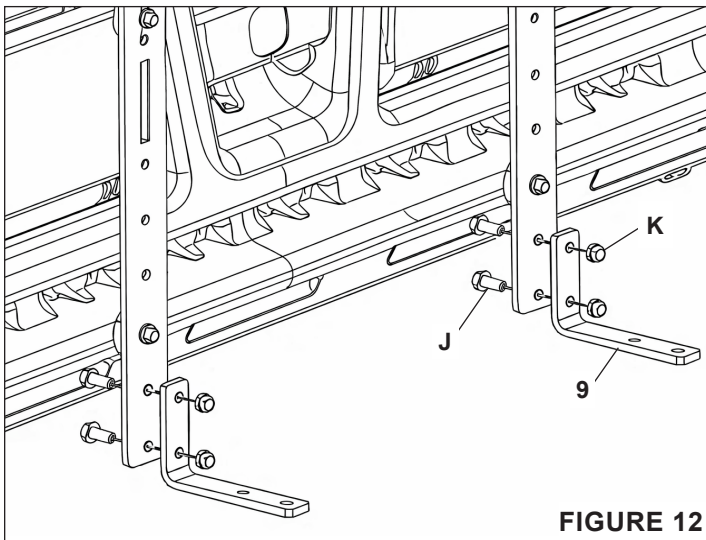
## STEP 11: (SEE FIGURE 11)

- Position outer boom support brackets over inner boom support brackets, making sure rubber feet are tight against tailgate.
- Tighten locking knobs (B).



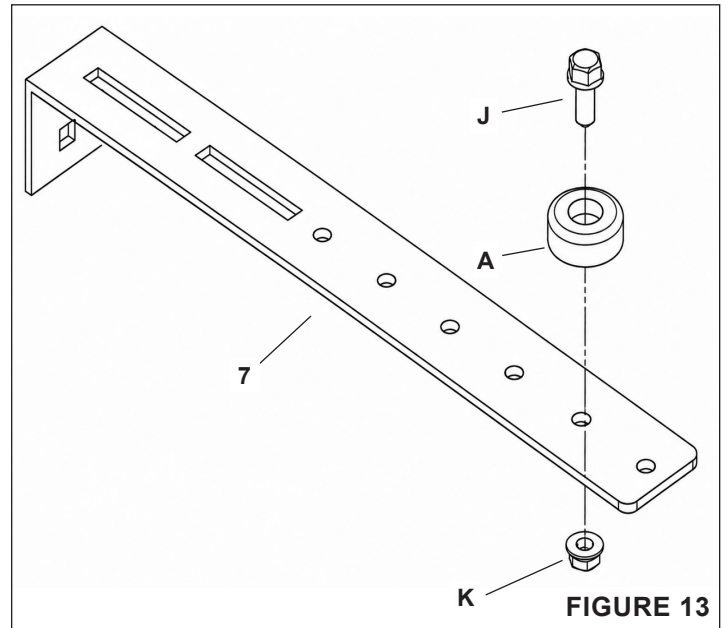
## STEP 12: (SEE FIGURE 12)

- Install boom L bracket (9), with long side out, at desired height with 5/16 x 3/4 flange bolts (J) and nuts (K). If rubber foot interferes with boom L bracket, use 5/16 x 1 bolt provided.



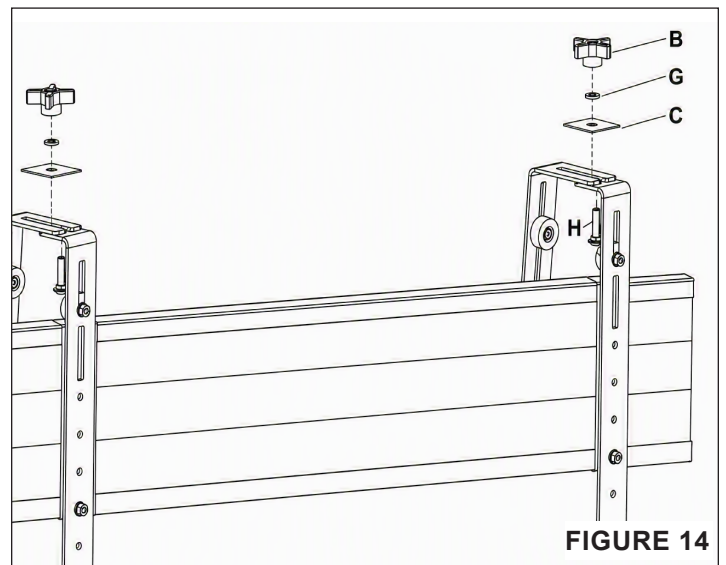
## STEP 13: (SEE FIGURE 13)

- Install rubber foot (A) in outer boom support bracket (7) as shown with 5/16 flange bolt (J) and nut (K).
- Install rubber foot on remaining outer boom support bracket.



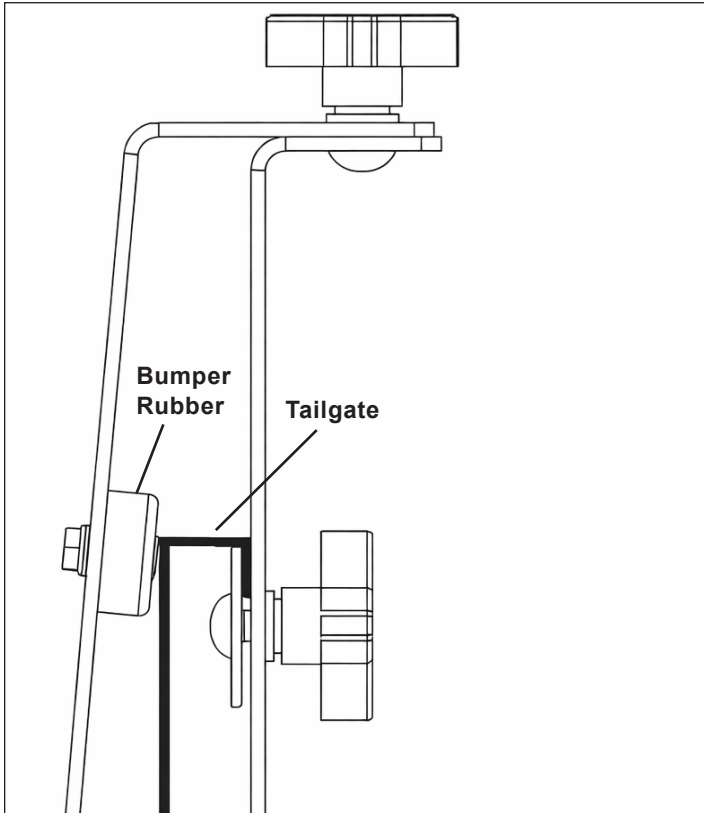
## STEP 14: (SEE FIGURE 14)

- Mount outer boom support to inner boom support and the square plate under the lip of the tailgate as shown
- with four 3/8 carriage bolts (H), square plates (C), lock washers (G) and locking knobs (B).



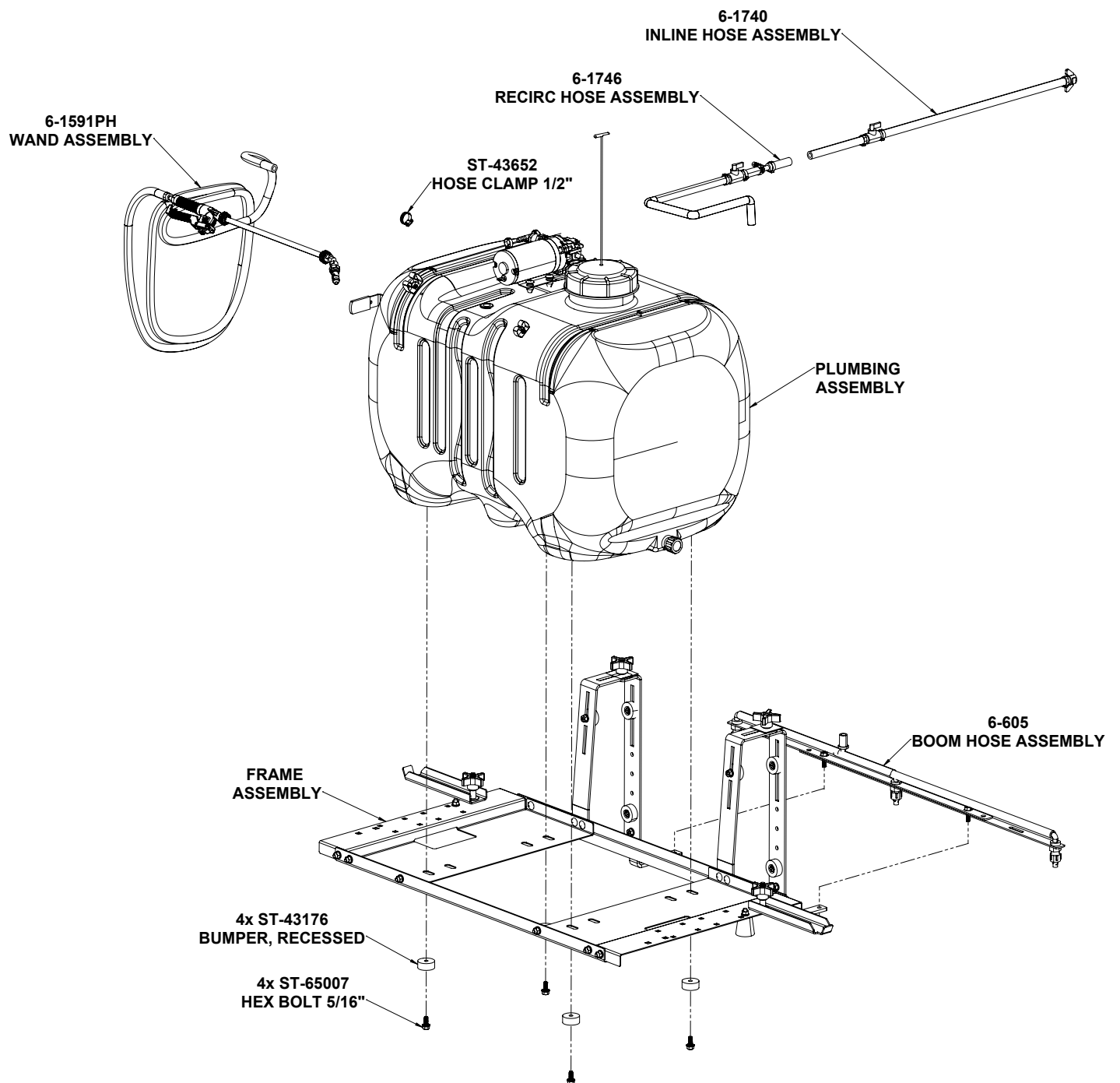
# Assembly

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**Picture Note:** Metal cargo box tailgate shown in black, square plate secured behind lip. Metal cargo box beds with liner on the tailgate do not need the rubber bumper inside the box as shown.

# Assembly



# Installing

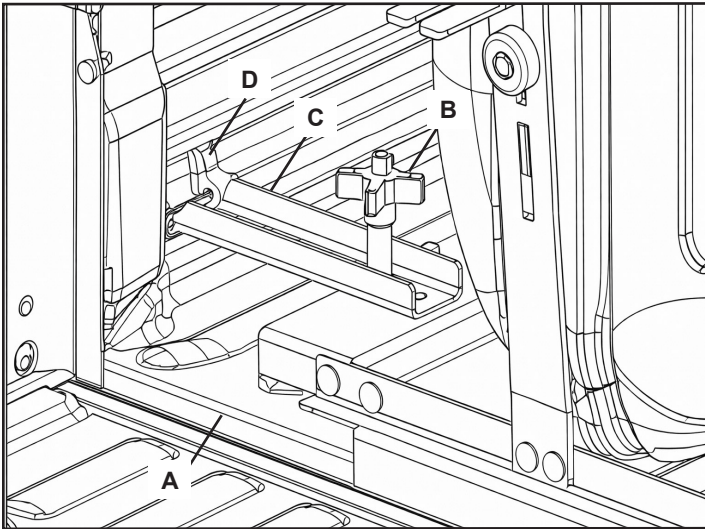
## Installing

### Install Sprayer



**CAUTION:** Avoid injury! Machine component or attachment is heavy. Use a safe lifting device or get an assistant to help lift, install or remove component or attachment.

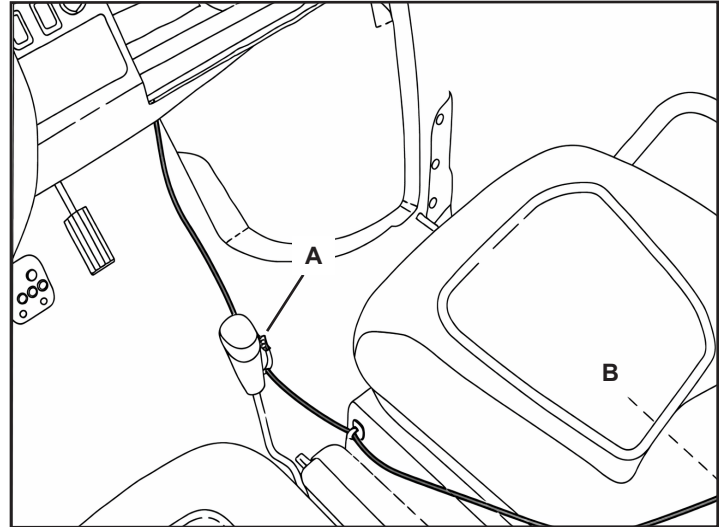
1. Lower tailgate.



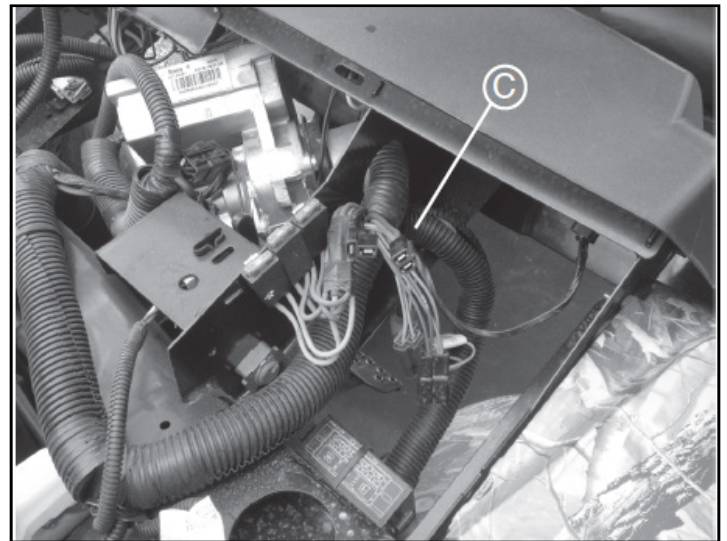
2. With assistance, place sprayer in bed with boom support channel lip (A) inserted between bed and tailgate. Be sure lip is tight against bed.
3. Loosen plastic locking knobs (B) holding anchor channels (C) in place.
4. Slide anchor channels (C) under tie-downs (D). Make sure all anchor channels are in place before tightening knobs.
5. Hand tighten all locking knobs.
6. Lift tailgate.

## Installing Wiring Harness

**NOTE:** Switch (A) is not located at center of main wiring harness. The harness plug connector furthest from switch gets connected to pump leads.



1. Connect switch wiring harness to pump leads (B).
2. Secure switch harness with clip as shown and route up under dash.
3. Open hood and remove plastic storage tray.



4. Behind steering console, find the plug with two parallel wires (C). Connect gator power harness to this plug and connect the 24 inch extension harness between the gator power harness and the switch harness.

# Operating

## Preparing Vehicle

Make sure machine tire pressure is correct for attachment weight. (See your machine operator's manual for the correct pressure.)

## Filling Sprayer Tank



**CAUTION: Avoid injury! Chemicals can be dangerous. Avoid injury to operator or bystanders:**

- Read chemical container label for mixing and handling instructions. A Material Safety Data Sheet (MSDS) should be supplied by the chemical dealer and provides proper safety information.
- Wear proper clothing and safety equipment while handling or applying spray chemicals.
- Wear a full covering of clothing, protective goggles and rubber gloves.
- Prohibit all smoking, drinking, and eating around chemicals.
- When filling tank, never allow end of water hose to contact chemical mixture.

**IMPORTANT: Avoid damage! Clean any spills immediately with clean water prior to operating the sprayer.**

**NOTE: When filling tank, consider area to be sprayed and amount of solution required to complete the task. Tank holds a maximum of 45 gallons.**

1. Clean area around tank filler cap to prevent tank contamination.
2. Remove tank filler cap and fill tank.
3. Install tank filler cap.

## Starting and Stopping Sprayer



**CAUTION: Avoid injury! Standing in a machine while it is moving can result in loss of balance and falling from machine.**

Never operate machine while standing. For machines that can carry passengers, the passenger must remain seated at all times.

**IMPORTANT: Avoid damage! Operate sprayer with transport vehicle running to avoid discharging the battery.**

## Operating Spray Gun

**NOTE: It is not recommended to use spray gun while operating the machine. Turn machine on for spray gun use, but do not maneuver machine unless spray gun and hose are in normal storage position on the tank.**

# Operating

## Removing and Storing

### Removing Sprayer

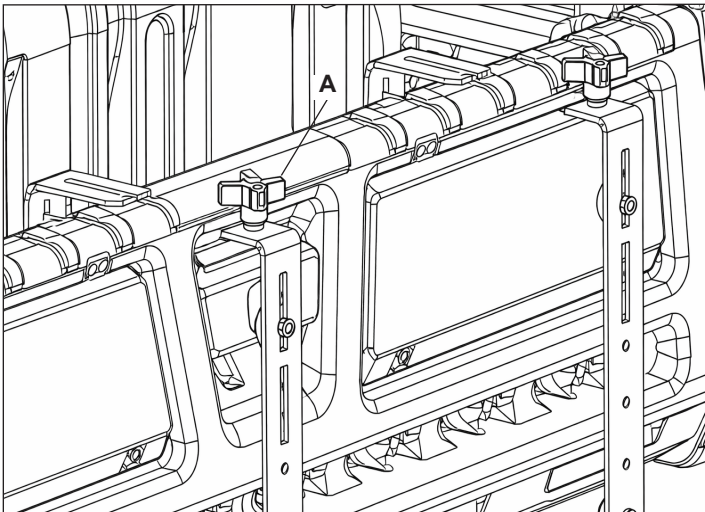
1. Park machine safely. (See Parking Safely in the Safety section.)



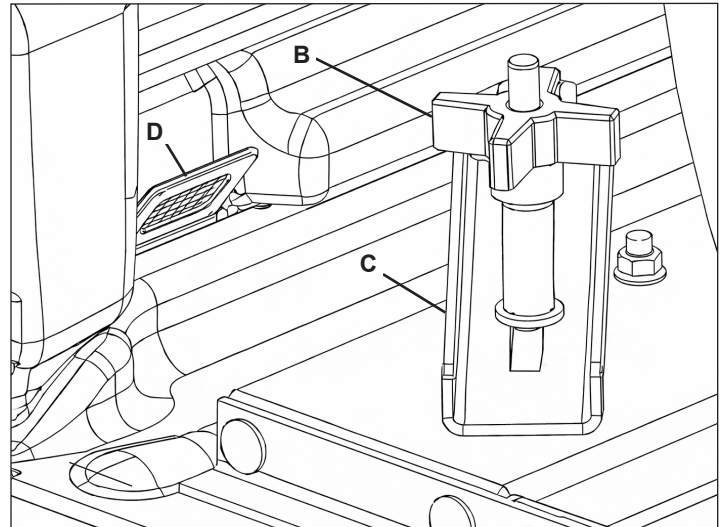
**CAUTION: Avoid injury! To avoid chemical injury:**

- Wear protective clothes, gloves and goggles when handling sprayer.
- Do not store sprayer with chemicals in tank.
- If spray comes in contact with your body, immediately follow directions on chemical container pertaining to spray material.

2. Empty the sprayer tank. (See Dispose of Chemicals Properly in the SAFETY section.)
3. Disconnect pressure hose to sprayer boom.
4. Disconnect main harness from the sprayer pump, leaving switch harness connected to machine.



5. Loosen locking knobs (A) at top of boom support brackets. Boom and outer support brackets slide apart as shown, Lower tailgate.



**Picture Note: 45 gallon sprayer has two locking knobs.**

6. Loosen locking knobs (B).
7. Remove anchor channels (C) from cargo box anchors (D), and rotate as shown.
8. Lift sprayer tank assembly from cargo box.

# Operating

## Store Sprayer Safely



**CAUTION: Avoid injury! To avoid chemical injury:**

- **Wear protective clothes, gloves and goggles when handling sprayer.**
- **Do not store sprayer with chemicals in tank.**
- **If spray comes in contact with your body, immediately follow directions on chemical container pertaining to spray material.**

1. Pump all spray material from tank. (See Dispose of Chemicals Properly in the SAFETY section.)
2. Rinse tank, pump, spray wand and all hoses thoroughly with fresh clean water.
3. Repeat step 2 several times.
4. Wipe out sump with a clean cloth or paper towel.
5. Drain hoses and pump filter.
6. Check sprayer for worn or damaged parts. Replace parts as needed.
7. Tighten loose hardware.
8. Store sprayer in a place where it will not freeze.

## Operating

### Filling Sprayer Tank



**CAUTION: Chemicals can be dangerous. Avoid injury to operator or bystanders:**

- **Read chemical container label for mixing and handling instructions. A Material Safety Data Sheet (MSDS) should be supplied by the chemical dealer and provides proper safety information.**
- **Wear proper clothing and safety equipment while handling or applying spray chemicals.**
- **Wear a full covering of clothing, protective goggles and rubber gloves.**
- **Prohibit all smoking, drinking, and eating around chemicals.**
- **When filling tank, never allow end of water hose to contact chemical mixture.**

**IMPORTANT: Avoid damage! Clean any spills immediately with clean water prior to operating the sprayer.**

**NOTE: When filling tank, consider area to be sprayed and amount of solution required to complete the task.**

1. Clean area around tank filler cap to prevent tank contamination.
2. Remove tank filler cap and fill tank.
3. Install tank filler cap.

# Operating

## Draining and Cleaning Sprayer Tank

### IMPORTANT: Avoid damage!

- Proper disposal of excess spray is very important. Dilute it with water and apply it to area previously treated.
- Never dump excess into a storm drain or near a lake or stream.

1. Remove tank drain cap, and empty sprayer tank:
  - Empty remaining solution into an appropriated container for proper disposal.
2. Spray all inside surfaces of tank with low pressure garden hose to remove any remaining solution. Rinse several times to make sure sprayer tank is clean and free of chemicals.
3. Replace drain cap and run fresh, clean water through pump, sprayer wand and all hoses thoroughly.
4. Once the tank is empty, wipe out inside of sprayer tank with a clean cloth or paper towel.

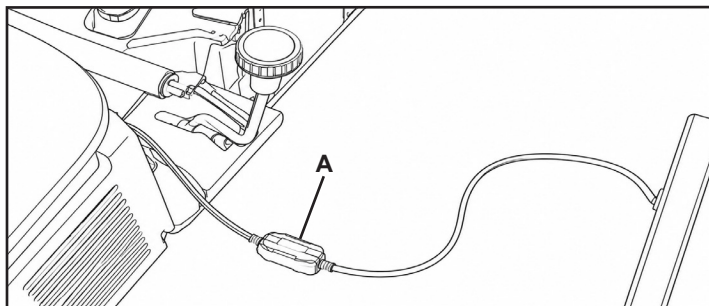
## Starting and Stopping Sprayer



**CAUTION: Avoid injury! Standing in a machine while it is moving can result in loss of balance and falling from machine. Never operate machine while standing. For machines that can carry passengers, the passenger must remain seated at all times.**

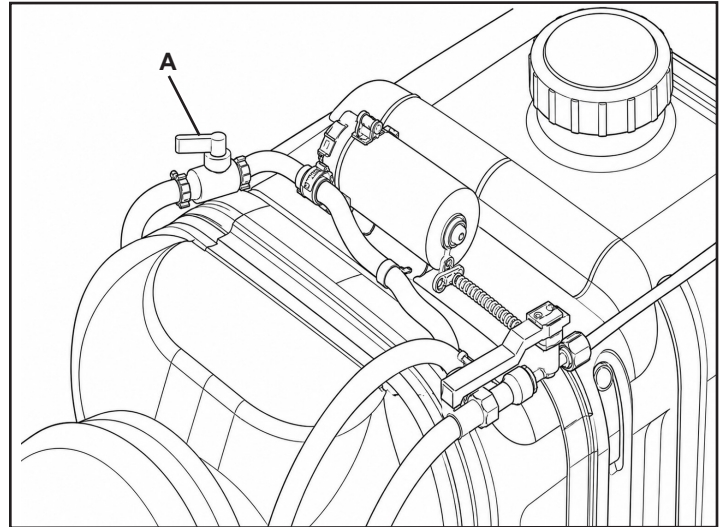
**IMPORTANT: Avoid damage! Operate sprayer with transport vehicle running to avoid discharging the battery.**

**NOTE: The sprayer pump to accessory outlet hookup is a direct electrical connection. Shutting off the transport vehicle does not prevent operation of the sprayer pump. To avoid accidental spraying, disconnect the pump connection before leaving the sprayer.**



1. Push switch (A) to ON position to start the sprayer.
2. Push switch (A) to OFF position to stop the sprayer.

## Sprayer Controls



Valve (A) is used to control spray to the spray wand or boom:

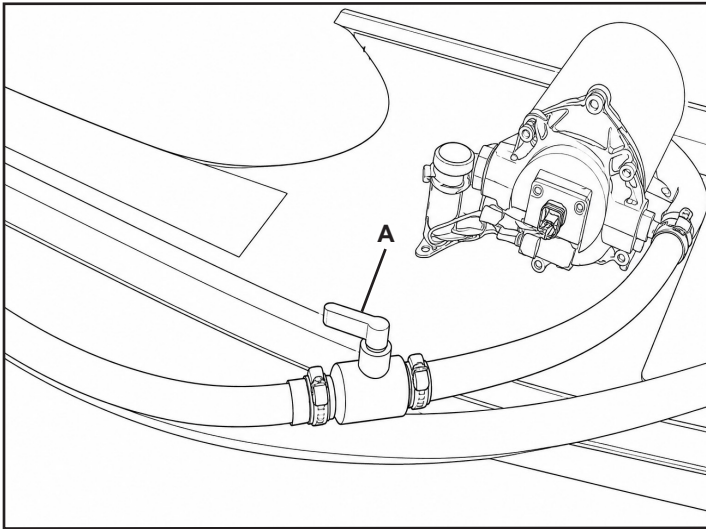
- In the open position (valve in line with hose) spray will flow to the boom.
- In the closed position (handle perpendicular to hose), spray will flow to spray wand only.

# Operating

## Selecting Spray Wand or Boom Nozzles

**NOTE:** Shut-off valve lever (A) has two positions:

- **ON POSITION** - Lever is parallel with hose. Pump flow is directed to the sprayer boom.
- **OFF POSITION** - Lever is perpendicular with hose. Pump flow is directed to the spray wand.

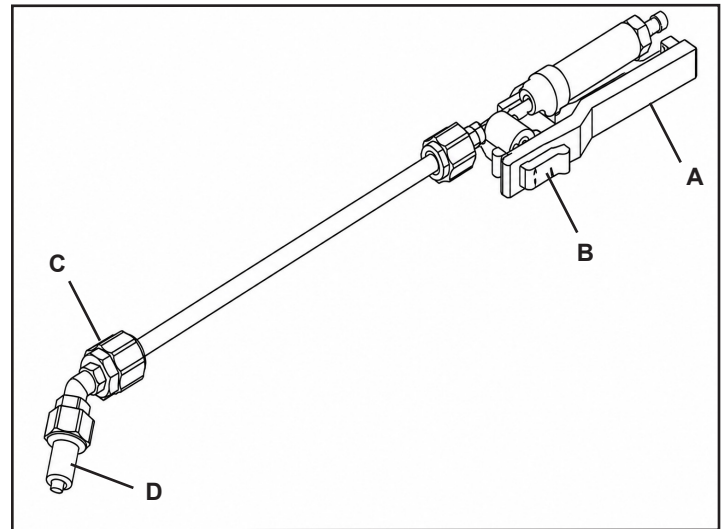


- To use spray wand: Turn lever (A) so that it is perpendicular with hose. you can now use the spray wand for spraying.
- To use sprayer boom: Turn lever (A) so that it is perpendicular with hose. Turn pump on and operate spray wand to remove all air from hose. After spray wand sprays liquid, turn pump off. Turn lever (A) so that it is parallel with hose. You can now use the boom nozzles for spraying.

## Operating Spray Wand

**NOTE:** It is not recommended to use wand while operating the machine. Turn machine on for wand use, but do not maneuver machine unless wand and hose are in normal storage position on the tank.

1. Turn shut-off valve lever perpendicular to hose.



2. Squeeze handle (A) to spray.
  - Push lock (B) forward to lock handle into the on position
3. Adjust nozzle:
  - Nozzle Spray Pattern - To change spray pattern, tighten or loosen nozzle (D) as desired.

# Operating

## Calibrating the Sprayer

1. Drive vehicle and sprayer (half-full is optimal) across a measured distance at a constant speed. There can be no change in speed while measuring time. Speed should be a comfortable speed for spraying.
2. Have someone measure the amount of time (in seconds) it takes to travel the measured distance.
3. Speed can be found by entering data into the equation:  $\text{speed (mph)} = \frac{\text{distance (ft)} \times 60}{\text{time (sec)}} \times 88$ , or by consulting the following table. It is helpful to note throttle location, gear and/or RPMs in order to maintain accuracy.

| Speed in mph | Time (sec) required to travel a distance of: |        |
|--------------|----------------------------------------------|--------|
|              | 200 ft                                       | 300 ft |
| 1            | 136                                          | 205    |
| 1.5          | 91                                           | 136    |
| 2            | 68                                           | 102    |
| 2.5          | 55                                           | 82     |
| 3            | 45                                           | 68     |
| 3.5          | 39                                           | 58     |
| 4            | 34                                           | 51     |
| 4.5          | 30                                           | 45     |
| 5            | 27                                           | 41     |
| 5.5          | 25                                           | 37     |
| 6            | 23                                           | 34     |
| 6.5          | 21                                           | 31     |
| 7            | 19                                           | 29     |

## Standard Gator Sprayer

All capacity standard gator sprayers operate at a fixed pressure through the boom and spray wand. Although the pressure can be adjusted to the boom by partially opening the boom control valve, it is recommended that the valve is operated in full open position. Using the following charts to select desired speed and application rate.

| GPA (gallons per acre per nozzle) |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|
| 2 mph                             | 3 mph | 4 mph | 5 mph | 6 mph |
| 38.6                              | 25.7  | 19.3  | 15.4  | 12.9  |
| Gallons per 1000 sq ft per nozzle |       |       |       |       |
| 2 mph                             | 3 mph | 4 mph | 5 mph | 6 mph |
| 0.89                              | 0.59  | 0.44  | 0.35  | 0.30  |

| Standard Hand Wand |        |                                   |              |
|--------------------|--------|-----------------------------------|--------------|
| Pressure           | Nozzle | GPM (cone)                        | GPM (stream) |
| 80 psi             | #18    | 0.4                               | 1.25         |
| Sprayer Capacity   |        | Approximate Spray Time in Minutes |              |
|                    |        |                                   |              |
| 45 gallon          |        | 112.5                             | 36           |
|                    |        |                                   |              |

## Using Calibration Chart

The spray nozzles on your sprayer are TF-VP3, which matches up with the calibration chart. Look at the calibration chart. Use your vehicle speed and desired gallons per acre (gpa), find the pressure (psi) necessary to achieve your gpa. It is important to note that lower pressure settings will result in less spray drift.

Example:

Assume you have found your vehicle speed to be 4 mph, your nozzles are Grey (TF-VP3), and you want to spray 20 gpa. By looking at the chart, you find that you should set the sprayer pressure at 20 psi in order to apply 20 gpa.

# Operating

## Useful Formulas

GPA = gallons per acre

GPM = gallons per minute

MPH = miles per hour

GAL/1000ft<sup>2</sup> = gallons per 1000 sq. ft.

W = nozzle spacing in inches

GPM/per nozzle =  $\text{gpa} \times \text{mph} \times \text{w} / 5940$

GPM/per nozzle =  $\text{gal}/1000\text{ft}^2 \times \text{mph} \times \text{w} / 136$

GPA =  $5940 \times \text{gpm (per nozzle)} / \text{mph} \times \text{w}$

GPA = gallons per 1000 sq. ft. / .023

GAL/1000ft<sup>2</sup> =  $136 \times \text{gpm (per nozzle)} / \text{mph} \times \text{w}$

## RATES OF FLOW (Calibration of Spray Tips)

| GPM  | Seconds to collect 1 qt. | GPM  | Seconds to collect 1 qt. |
|------|--------------------------|------|--------------------------|
| 0.05 | 300                      | 0.20 | 75                       |
| 0.06 | 250                      | 0.23 | 67                       |
| 0.07 | 214                      | 0.25 | 60                       |
| 0.08 | 188                      | 0.30 | 50                       |
| 0.09 | 167                      | 0.35 | 40                       |
| 0.10 | 150                      | 0.40 | 35                       |
| 0.11 | 136                      | 0.50 | 30                       |
| 0.12 | 125                      | 0.60 | 25                       |
| 0.13 | 115                      | 0.70 | 20                       |
| 0.14 | 107                      | 0.80 | 15                       |
| 0.15 | 100                      | 0.90 | 17                       |
| 0.17 | 80                       | 1.00 | 15                       |

NOTICE: Avoid contamination when switching from one chemical to another chemical in the sprayer where contamination must be prevented. Wash with tank cleaner and water throughout the tank, pump, and all hoses. Flush with water two to three times. Herbicides such as 2-4D are hard to remove. Follow instructions on procedures noted on all labels.

## Lifting Sprayer Safely

- Use caution when lifting the sprayer to help prevent possible injury.
- Empty tank before attempting to lift.

## Transporting Sprayer Safely

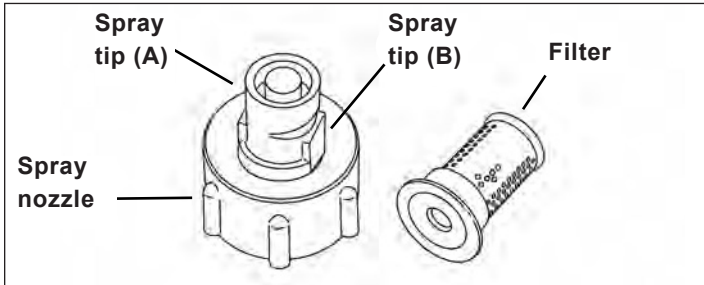
- Use caution when transporting the sprayer to help prevent possible
- Push switch wire harness to OFF position.
- When sprayer is filled with liquid, the extra weight on the back of a machine could change the stability of the machine.

| Tip Size | PSI | GPM one nozzle | GPA 30 inch spacing |       |       |       |
|----------|-----|----------------|---------------------|-------|-------|-------|
|          |     |                | 2 mph               | 3 mph | 4 mph | 5 mph |
| TF-VP3   | 10  | 0.30           | 29.70               | 19.80 | 14.85 | 11.88 |
|          | 20  | 0.42           | 41.58               | 27.72 | 20.79 | 16.63 |
|          | 30  | 0.52           | 51.48               | 34.32 | 25.74 | 20.59 |
|          | 40  | 0.60           | 59.40               | 39.60 | 29.70 | 23.76 |

# Operating

## Service

### Cleaning Spray Nozzle

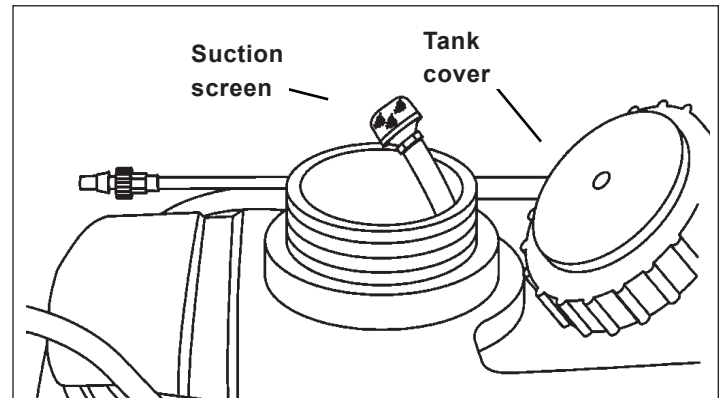


1. Remove spray nozzle from sprayer.
2. Disassemble filter and spray tip (A).

**NOTE: Do not use a wire to clean opening (B) in spray tip.**

3. Wash filter and spray tip in a non-flammable solvent.
4. Put spray tip in spray nozzle.
5. Put flat side of filter in spray nozzle.
6. Install assembly on sprayer and tighten nozzle.

### Cleaning Pump Suction Screen



1. Remove tank cover.
2. Locate suction screen inside sprayer tank.
3. If necessary, unscrew suction screen and clean with liquid detergent and warm water.
4. If suction screen was removed, install on suction hose and position in lowest depression inside tank.
5. Install and tighten tank cover.

# Service

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## Removal and Storage

### Store Sprayer Safely



**CAUTION: Avoid injury! To avoid chemical injury:**

- Wear protective clothes, gloves and goggles when handling sprayer.
- Do not store Sprayer with chemicals in tank
- If spray comes in contact with your body, immediately follow directions on chemical container pertaining to spray material.

**IMPORTANT: Avoid damage!**

- Proper disposal of excess spray is very important. Dilute remaining liquid with water and apply it to area previously treated
- Never dump excess into storm drain or near lake or stream.

1. Drain all spray material from tank. (See Dispose of Chemicals Properly in the SAFETY section.)
2. Rinse tank, pump, spray wand, spray boom and all hoses thoroughly with fresh clean water.
3. Repeat step 2 several times.
4. Wipe out sump with a clean cloth or towel.
5. Drain spray wand, all hoses and pump filter. Remove spray tips and spray solenoids and drain spray boom.
6. Check sprayer for worn or damaged parts. Replace parts as needed.
7. Tighten loose hardware.
8. Store sprayer in a place where it will not freeze.

### Transporting Sprayer Safely

- Use caution when transporting the sprayer to help prevent possible injury.
- Turn off sprayer when transporting.
- When sprayer is filled with liquid, the extra weight on the back of a machine could change the stability of the machine.

### Lifting Sprayer Safely

- Use caution when lifting the sprayer to help prevent possible injury.
- Always empty tank before attempting to lift.

**NOTE: Two people required to remove and install sprayer.**

### Removing Sprayer

1. Park machine safely. (See Parking Safely in the Safety section.)
2. Disconnect wire harness extension.
3. Drain the spray tank. (See Dispose of Chemicals Properly in the Safety section).
4. Disconnect hose to sprayer boom.
5. Fold boom.
6. Remove pins and lift boom up and off of brackets. Brackets can remain on vehicle.
7. Open the cargo box tailgate.
8. Loosen locking knobs at three corners of the sprayer frame. Remove anchor channels from cargo box anchors and rotate 90 degrees and tighten locking knobs.
9. Slide sprayer rearward and remove from the cargo box.

# Service

## Troubleshooting

### Using Troubleshooting Chart

If you are experiencing a problem that is not listed in this chart, see your authorized dealer for service.

When you have checked all the possible causes listed and you are still experiencing the problem, see your authorized dealer.

| IF                             | CHECK                                                                                                                                     |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Pump Loses Suction.            | Clean Pump suction screen.<br>Check tank fill level. Fill tank.<br>Clean or replace pump.<br>Check for loose pump fittings.               |
| Pump Capacity Decreased.       | Clean pump suction screen.<br>Clean spray nozzle(s).<br>Selection lever is not completely turned on, or is in the OFF position.           |
| Poor Spray Pattern.            | Clean spray nozzles.<br>Adjust nozzle height.<br>Align spray tips with boom.                                                              |
| Pump Vibrates or Spray Pulses. | Adjust pump.                                                                                                                              |
| Pump Does Not Work.            | Check wiring connections.<br>Check machine battery.<br>Clean debris from pump.<br>Check pump switch.<br>Check pump motor.<br>Adjust pump. |

## Maintenance

### After Each Use

1. Fill the tank part way with water and pump the water out through the boom assembly and the spray gun. Use the spray gun to wash the inside of the tank.
2. Refill the tank about half full with water and a chemical neutralizer solution and repeat the cleaning instructions above. Follow the manufacturers instructions for disposal of all chemicals.

### As Needed

1. Periodically clean the tank strainer on the end of the intake hose. Remove the nylon swivel nut from the hose, pull out the screen, and flush it with water.
2. Periodically clean the strainers in the boom nozzles. Remove the nozzle, pull out the screen, and flush it with water.

### Winterizing Sprayer

It is important to winterize sprayer to avoid damage from freezing and corrosion before temperatures reach freezing levels.

1. Empty and rinse tank.
2. Put one to two gallons of water in tank.
3. Engage pump and spray with boom and spray gun. Ensure that the water has been pumped through entire system, including all spray nozzles.
4. Run the pump dry for no more than 10 seconds.
5. Remove the 1/2" plug (2) from the manifold (1).
6. Slide the lock (3) down on the manifold for all 3 hose connections.
7. Pull the hose and fittings (4) up and off the manifold (1) for all 3 hose connections.
8. Let the hose and fittings hang freely.

# Service

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## Specifications

### Sprayer

Tank - 45 Gallon ..... 170.3 L (45 gallon)

#### Pump:

Type ..... On Demand

Current Draw ..... 8 amp max  
15A Fuse

System Pressure ..... 414 kPa (60 psi)

Spray Rate ..... 20.1 L/min (5.3 gal/min)

Suction Hose Strainer ..... Stainless Steel

Spray Tip Material ... Plastic

#### Sprayer Gun:

Material ..... Plastic, Brass, Alloys

Adjustment ..... Fan To Stream

#### Sprayer:

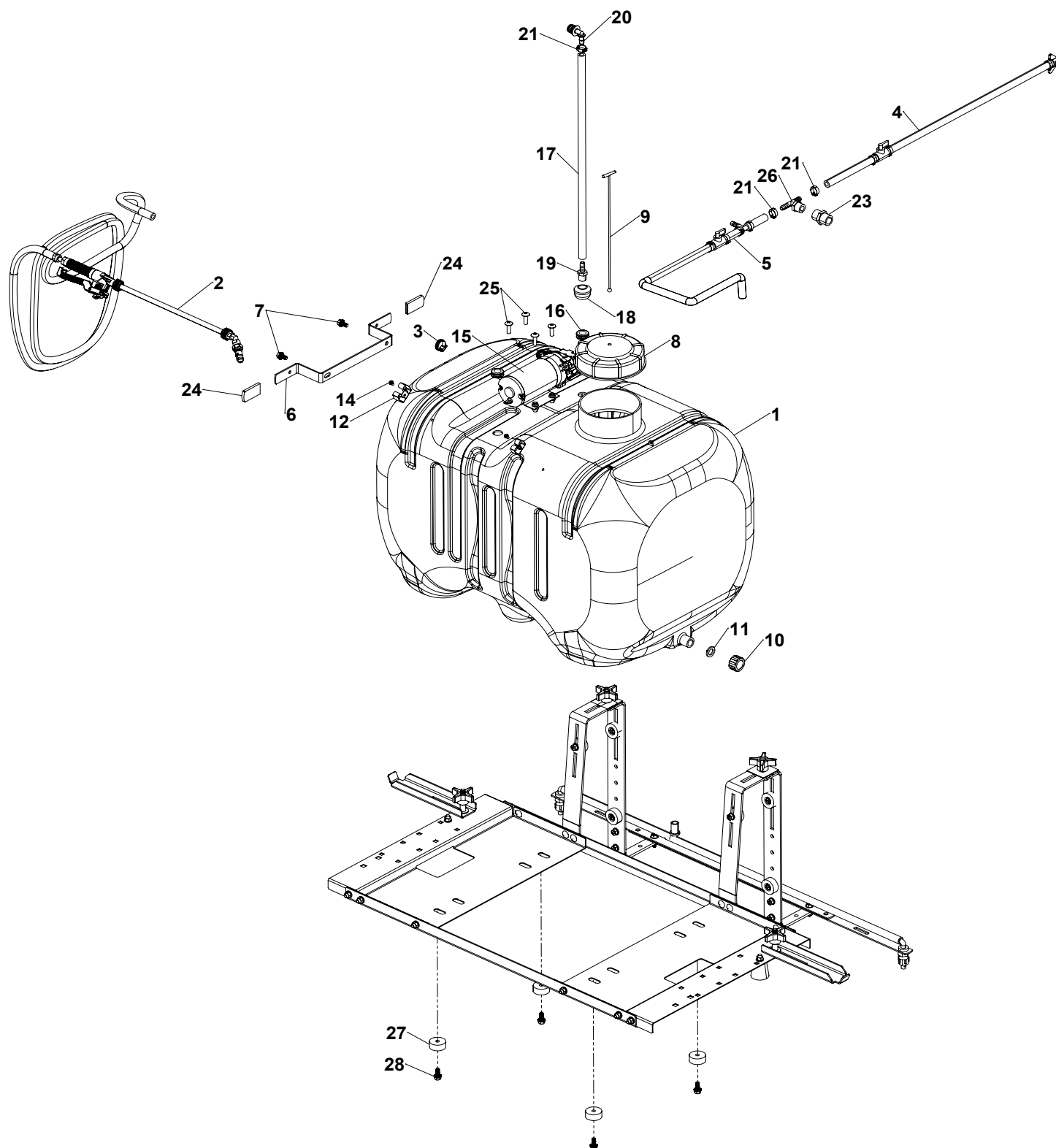
Spraying Width (10' Boom) ..... 305 cm (120 in)

#### Weight:

Empty ..... 21 kg (46 lb)

Full ..... 184 kg (406 lb)

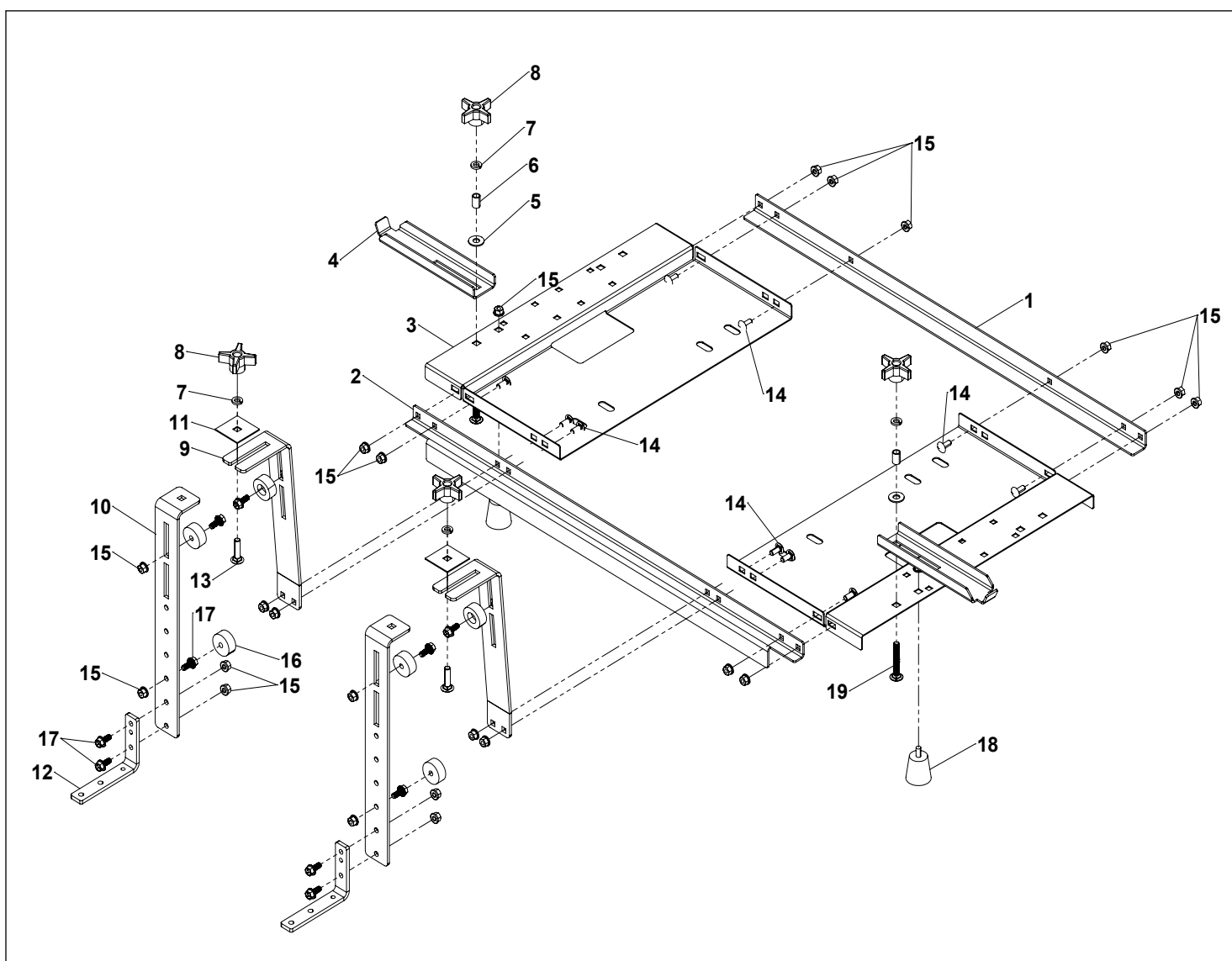
# Sprayer Repair Parts



# Sprayer Repair Parts

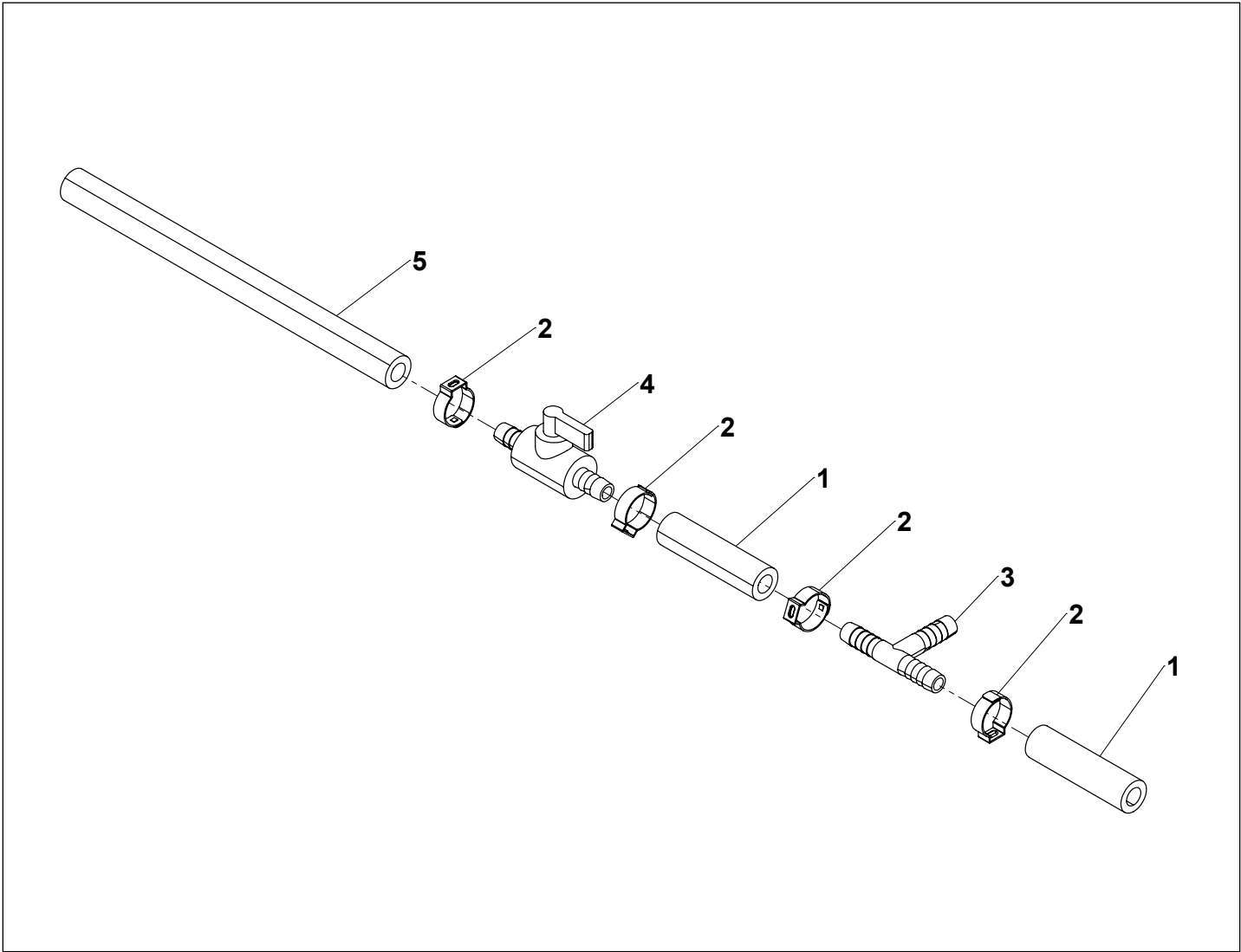
| REF                    | QTY | PART NO    | DESCRIPTION                    |
|------------------------|-----|------------|--------------------------------|
| 1                      | 1   | 2-1194     | 45 GALLON TANK, DRILLED        |
| 2                      | 1   | 6-1591PH   | ASS'Y, WAND HOSE               |
| 3                      | 1   | ST43652    | HOSE CLAMP, 1/2" SCREW TYPE    |
| 4                      | 1   | 6-1740     | ASS'Y, SUB INLINE HOSE         |
| 5                      | 1   | 6-1746     | ASS'Y, RECIRC HOSE             |
| 6                      | 1   | ST62006BL3 | HOSE WRAP BRACKET              |
| 7                      | 2   | ST65011    | BOLT, HEX FLANGE 5/16-18 X 5/8 |
| 8                      | 1   | ST43175    | TANK FILL CAP                  |
| 9                      | 1   | ST44017    | LANYARD FOR TANK FILL CAP      |
| 10                     | 1   | 48719      | CAP, 3/4" GHT                  |
| 11                     | 1   | ST43684    | WASHER FOR DRAIN CAP           |
| 12                     | 1   | ST43287    | SPRAY WAND HOLDER, LARGE       |
| 13                     | 1   | ST43130    | SPRAY WAND HOLDER, SMALL       |
| 14                     | 2   | 46677      | SCREW, 10-24 X 3/8 PL          |
| 15                     | 1   | 2-532      | PUMP, 12V, 2.2 GPM, QA PORTS   |
| 16                     | 2   | ST43844    | GROMMET 5/8 ID, 1-1/8 OD, 7/8  |
| 17                     | 1   | 2-314      | HOSE, 3/8" X 22"               |
| 18                     | 1   | ST-43258   | SUMP STRAINER 3/8"             |
| 19                     | 1   | ST-43182   | SUMP FITTING 3/8" BARB         |
| 20                     | 1   | 2-530      | FITTING, 3/4" QA MALE, X 3/8"  |
| 21                     | 3   | ST43010    | OETIKER CLAMP 3/8" 0185        |
| 22                     | 1   | 2-1047     | FITTING, 3/4" QA, X 1/2" MP    |
| 23                     | 1   | 2-1048     | FITTING, COUPLER 1/2" FP       |
| 24                     | 2   | ST43283    | RUBBER CAP .125 X 1 X 2        |
| 25                     | 4   | ST65001    | SCREW, 10-24 X 1" TRUSS HEAD   |
| 26                     | 1   | 2-1086     | FITTING, TEE 3/8HB-3/8HB-1/2M  |
| 27                     | 4   | ST43176    | BUMPER, RECESSED               |
| 28                     | 4   | ST65007    | BOLT, HEX FLANGE 5/16-18 X 3/4 |
| <b>ITEMS NOT SHOWN</b> |     |            |                                |
| 29                     | 1   | ST43472    | WIRE HARNESS, SWITCH           |
| 30                     | 1   | ST43485    | WIRE HARNESS, EXTENSION 30"    |
| 31                     | 1   | ST43726    | WIRE HARNESS GATOR POWER       |
| 32                     | 1   | ST43483    | WIRE HARNESS, BATTERY          |

# Frame Assembly



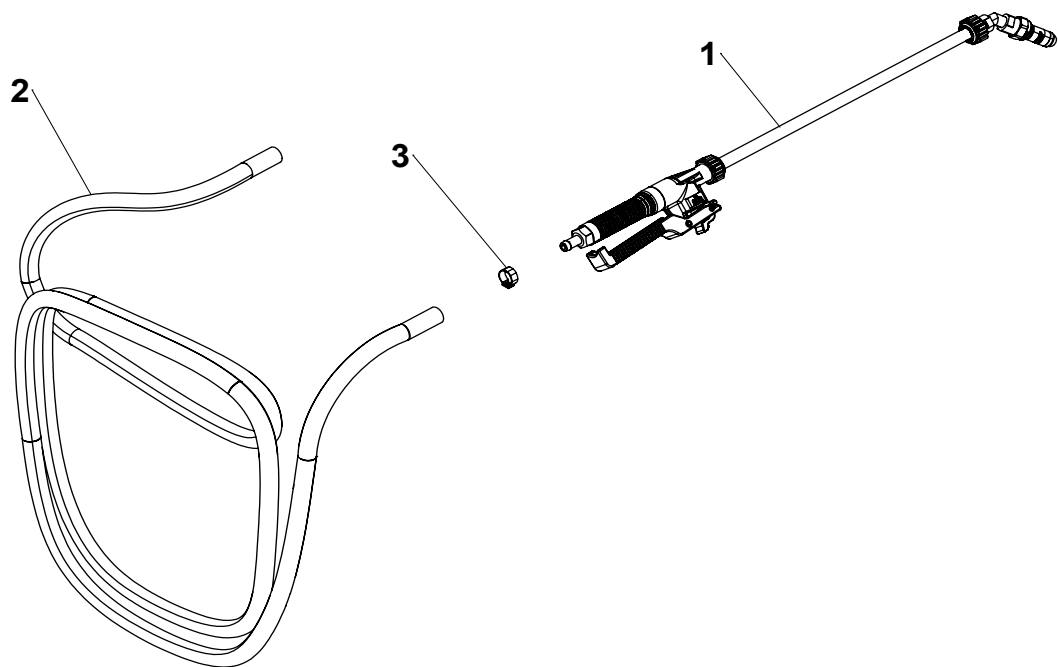
| REF | QTY | PART NO    | DESCRIPTION                   | REF | QTY | PART NO | DESCRIPTION                   |
|-----|-----|------------|-------------------------------|-----|-----|---------|-------------------------------|
| 1   | 1   | ST43551BL3 | FRONT ANGLE                   | 15  | 26  | ST46584 | NUT, HEX 5/16-18 WHIZ LOCK    |
| 2   | 1   | ST43550BL3 | REAR ANGLE                    | 16  | 6   | ST43176 | BUMPER, RECESSED              |
| 3   | 2   | ST43556BL3 | TANK SUPPORT 25-45 GATOR      | 17  | 10  | ST65007 | BOLT, HEX FLANGE 5/16-18 X 3/ |
| 4   | 2   | ST43553BL3 | ANCHOR CHANNEL                | 18  | 2   | ST43578 | BUMPER, RUBBER                |
| 5   | 2   | 43070      | WASHER, .438 X 1 X .083       | 19  | 2   | ST65052 | BOLT, CARRIAGE 3/8" X 2-1/2"  |
| 6   | 2   | ST43725    | SPACER 3/8" ID X 3/4" LONG    |     |     |         |                               |
| 7   | 4   | 43003      | WASHER, LOCK 3/8              |     |     |         |                               |
| 8   | 4   | ST43289    | KNOB, 3/8" LOCKING            |     |     |         |                               |
| 9   | 2   | ST43554    | INNER BOOM SUPPORT            |     |     |         |                               |
| 10  | 2   | ST43555    | OUTER BOOM SUPPORT            |     |     |         |                               |
| 11  | 3   | ST43506    | SQUARE PLATE                  |     |     |         |                               |
| 12  | 2   | 2-744BL3   | BOOM L BRACKET                |     |     |         |                               |
| 13  | 2   | 43069      | BOLT, CARR 3/8-16 X 1-1/2 GR5 |     |     |         |                               |
| 14  | 14  | 43080      | BOLT, CARR 5/16-18 X 3/4 GR5  |     |     |         |                               |

# 6-1746 RECIRC HOSE ASSEMBLY



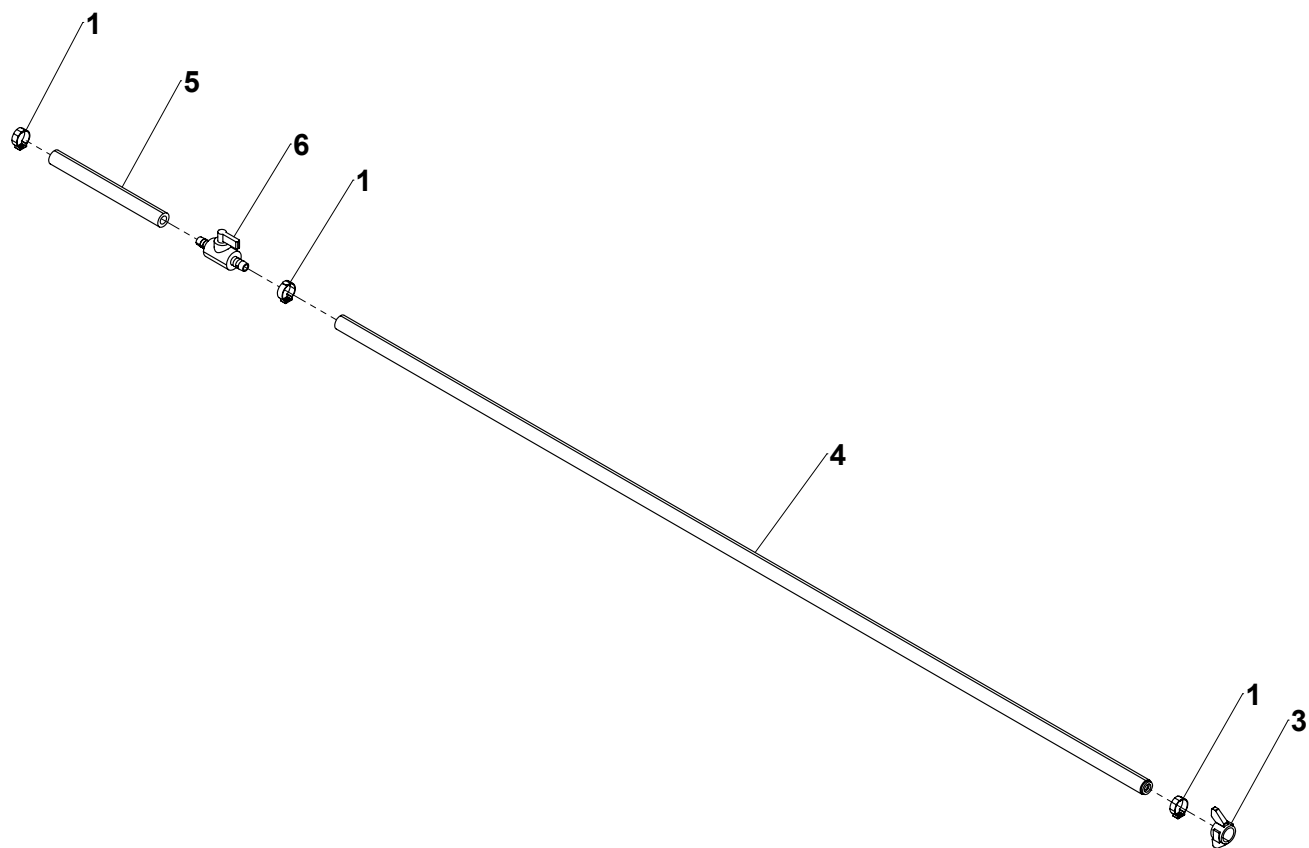
| REF | QTY | PART NO | DESCRIPTION             |
|-----|-----|---------|-------------------------|
| 1   | 2   | 2-317   | HOSE, 3/8" X 2.5"       |
| 2   | 4   | ST43010 | OETIKER CLAMP 3/8" 0185 |
| 3   | 1   | ST43013 | TEE 3/8" BARBS          |
| 4   | 1   | ST43014 | IN LINE VALVE 3/8" BARB |
| 5   | 1   | 2-319   | HOSE, 3/8" X 8.5"       |

## 6-1591 WAND ASSEMBLY



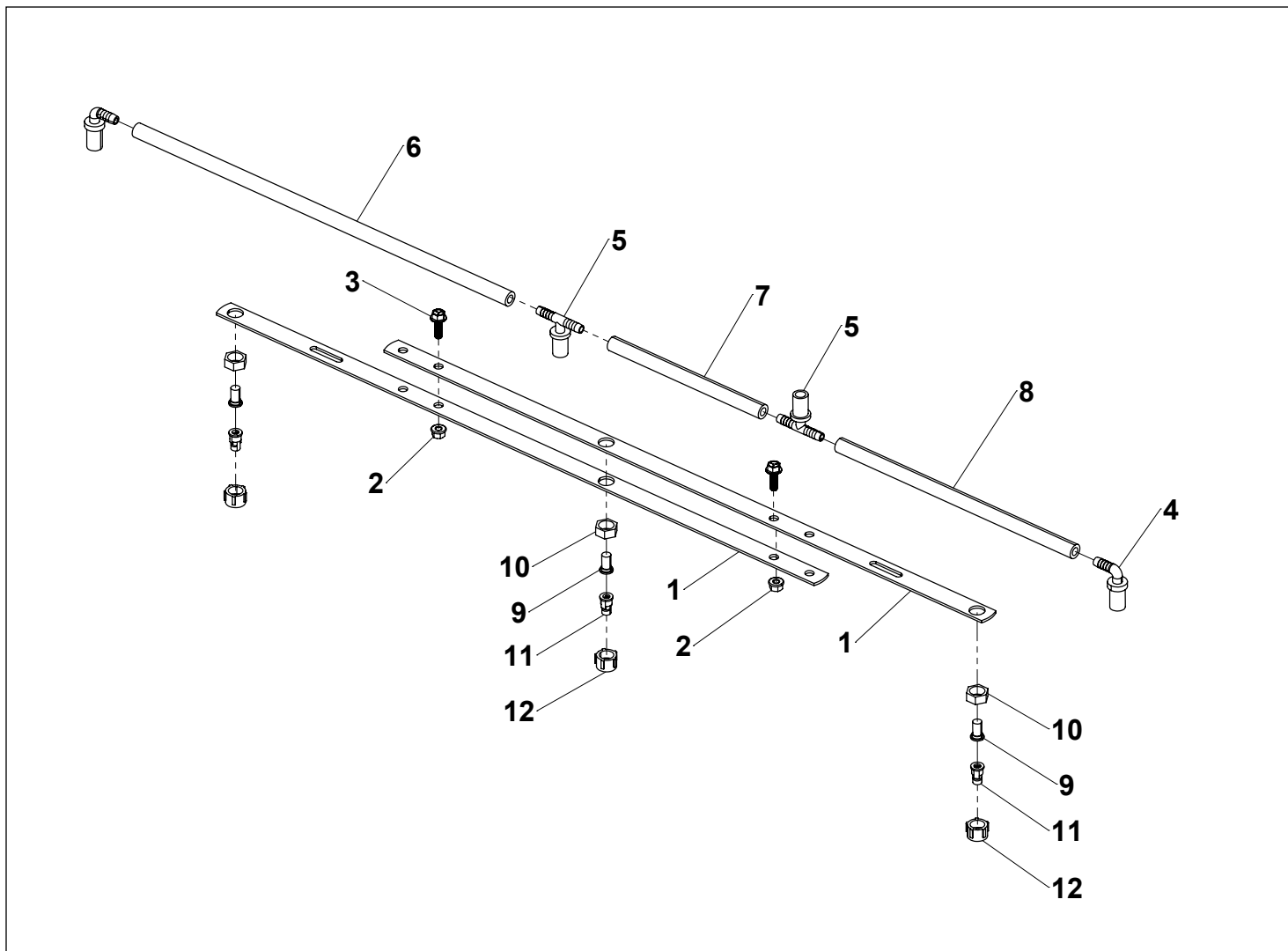
| REF | QTY | PART NO | DESCRIPTION                 |
|-----|-----|---------|-----------------------------|
| 1   | 1   | ST43238 | SPRAY WAND WITH PLASTIC TIP |
| 2   | 1   | 2-1049  | HOSE, 3/8" X 180"           |
| 3   | 1   | ST43655 | OETIKER CLAMP 3/8" 0165     |

## 6-1740 INLINE ASSEMBLY



| REF | QTY | PART NO | DESCRIPTION                    |
|-----|-----|---------|--------------------------------|
| 1   | 3   | ST43010 | OETIKER CLAMP 3/8" 0185        |
| 2   | 1   | ST43499 | 3/8" BARB FITTING FOR WING NUT |
| 3   | 1   | ST43498 | PLASTIC WING NUT               |
| 4   | 1   | 2-314   | HOSE, 3/8" X 22"               |
| 5   | 1   | 2-321   | HOSE, 3/8" X 6.5"              |
| 6   | 1   | ST43014 | IN LINE VALVE 3/8" BARB        |

## LP22911 Boom Repair Parts



| REF | QTY | PART NO  | DESCRIPTION                  |
|-----|-----|----------|------------------------------|
| 1   | 2   | 2-477BL3 | BRACKET, GATOR BOOM          |
| 2   | 2   | 46584    | NUT, HEX 5/16-18 WHIZ LOCK   |
| 3   | 2   | ST65014  | BOLT, HEX FLANGE 5/16-18 X 1 |
| 4   | 2   | ST43011  | NOZZLE FITTING ELBOW 3/8" HB |
| 5   | 2   | ST43192  | NOZZLE FITTING TEE 3/8" HB   |
| 6   | 1   | 2-336    | HOSE, 3/8" X 21"             |
| 7   | 1   | 2-333    | HOSE, 3/8" X 7.5"            |
| 8   | 1   | 2-312    | HOSE, 3/8" X 13.25"          |
| 9   | 3   | ST43016  | SPRAY TIP SCREEN W/CHECK     |
| 10  | 3   | 2-866    | NUT, 11/16" NOZZLE RETAINING |
| 11  | 3   | ST43410  | SPRAY TIP TF-VP3             |
| 12  | 3   | ST43012  | TIP FITTING CAP NUT          |

# Warranty

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## Getting Quality Service

### John Deere Quality Continues with Quality Service

John Deere provides a process to handle your questions or problems, should they arise, to ensure that product quality continues with quality parts and service support.

Follow the steps below to get answers to any questions you may have about your product.

1. Refer to your attachment and machine operator manuals.

In North America or Canada, call Agri-Fab Customer Service at 1-800-448-9282 and provide product serial number (if available) and model number.

## Warranty

### Limited Warranty for New John Deere Licensed Products

Agri-Fab's sprayers are guaranteed to be free from defects in material and workmanship from the date of purchase for 2 years residential use, 6 months commercial use, provided that the purchaser properly assembles, installs, uses and maintains the products in accordance with this manual. Purchaser's failure to adhere to such requirements will void the warranty. To the extent permitted by applicable law, all other warranties, representations, obligations and conditions, expressed or implied, including but not limited to implied warranties of merchantability, fitness for any particular purpose and non-infringement, are hereby disclaimed and excluded. Any product which does not meet warranty shall, as purchaser's sole and exclusive remedy, be repaired or replaced by Agri-Fab. This warranty is non transferrable.

In addition, our warranty does not cover:

- Loss or consequential, incidental or special damages of any kind
- Breakage of parts as a result of freezing - fittings, hand wands and pumps may crack if liquid is left inside at freezing temperatures.