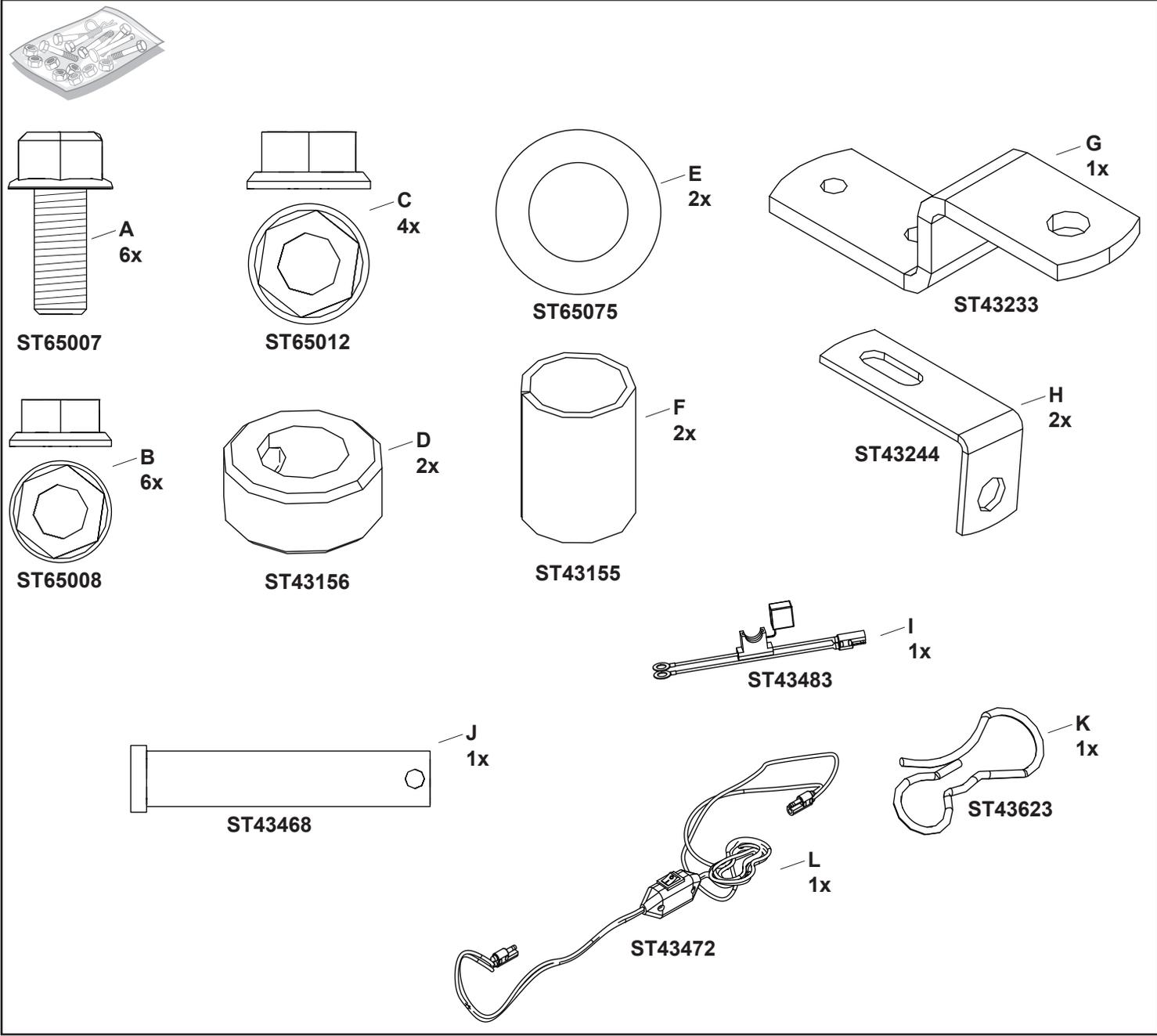
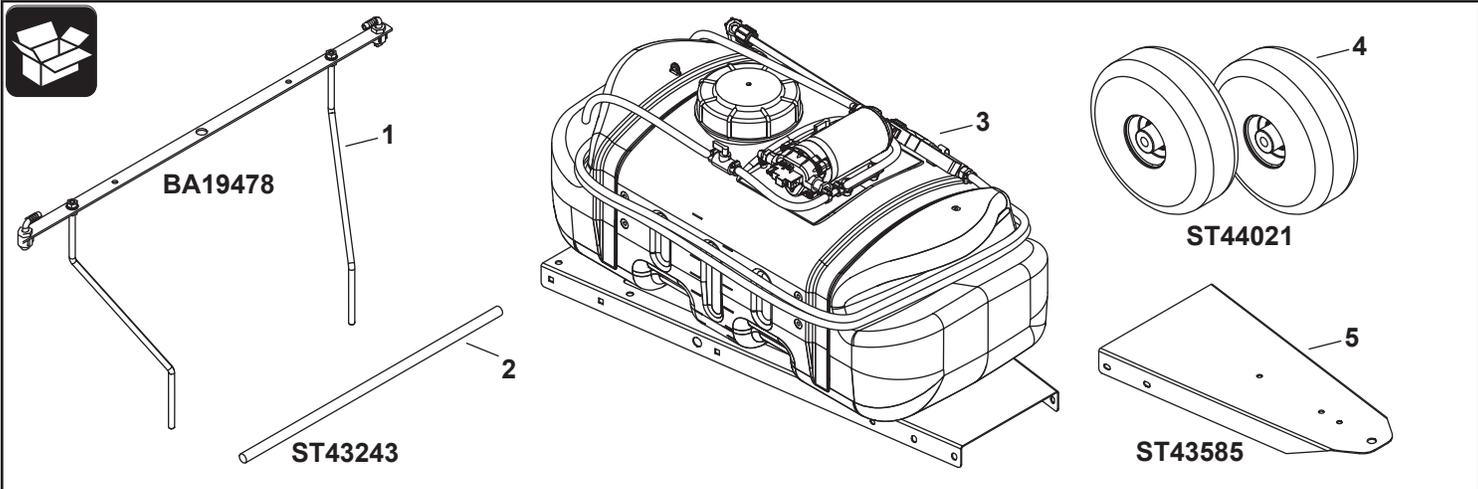
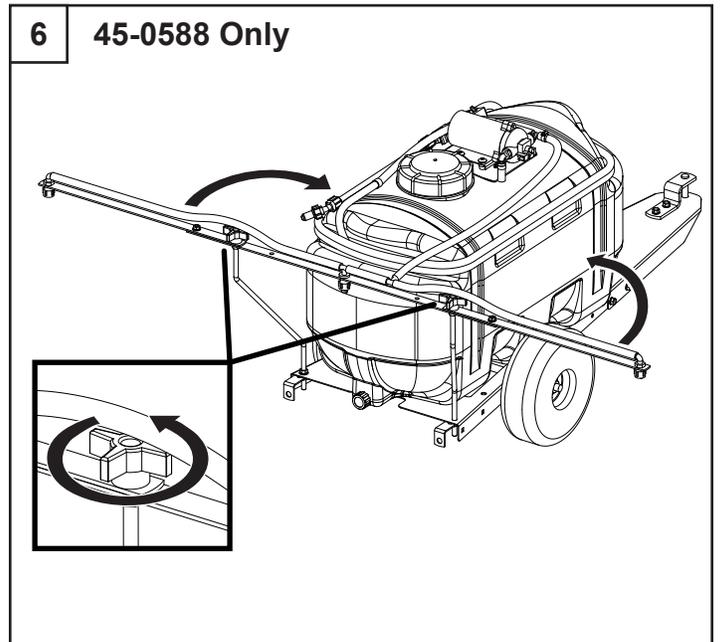
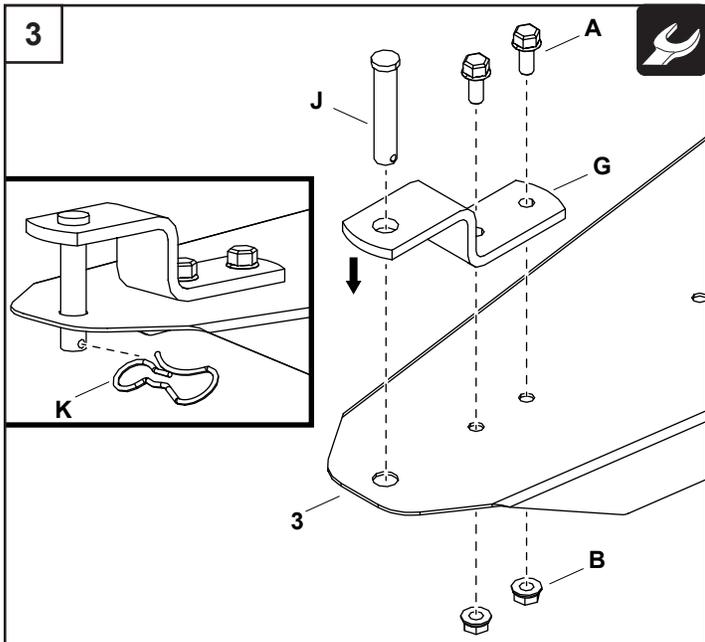
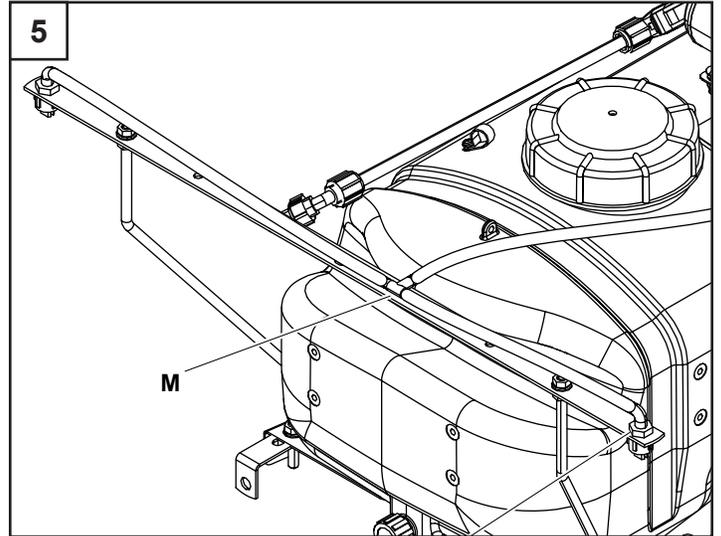
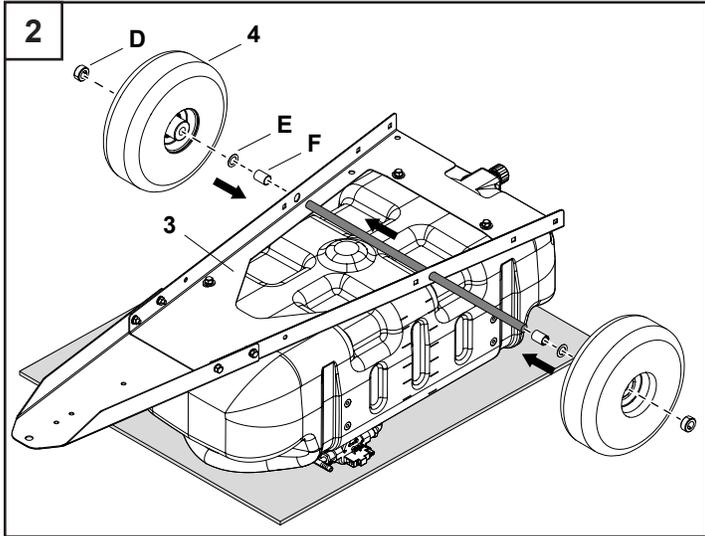
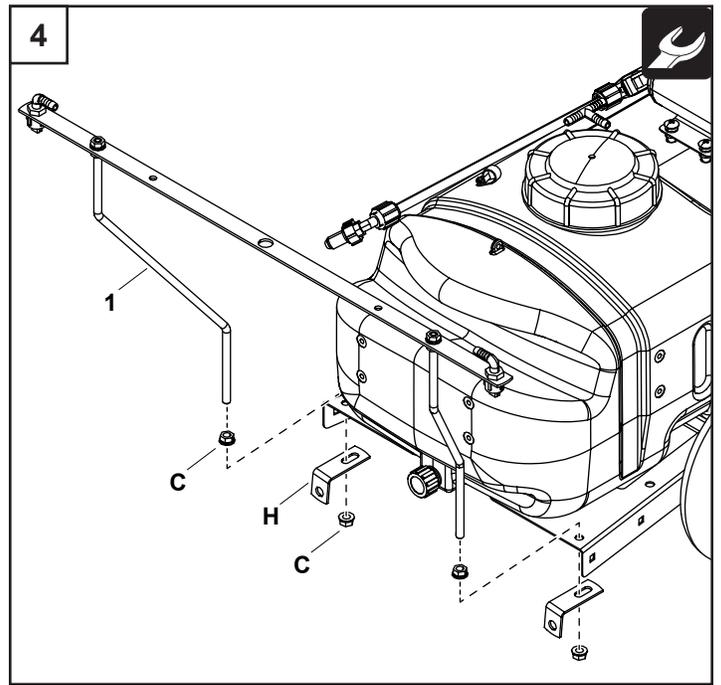
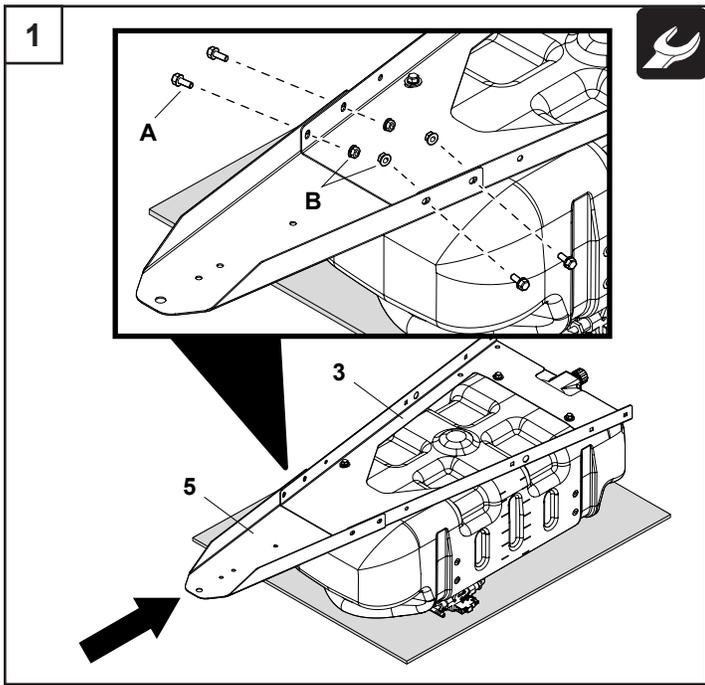
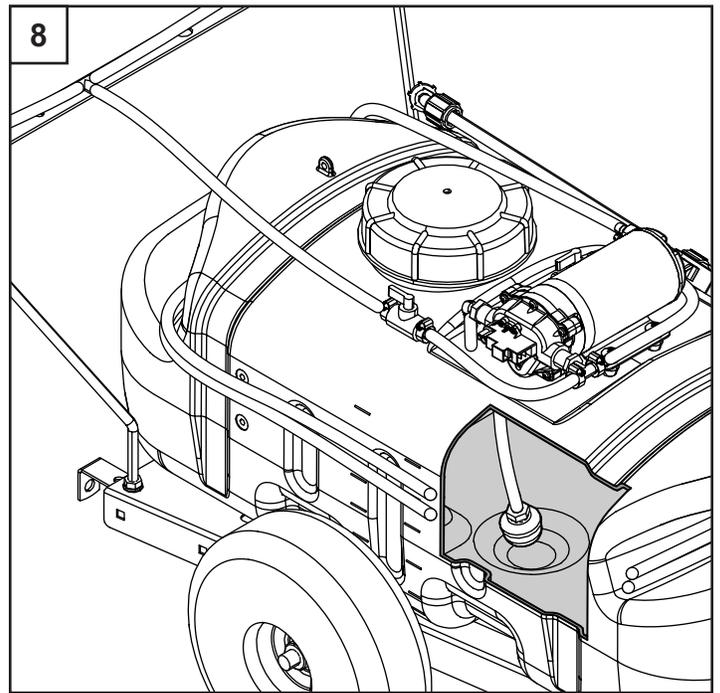
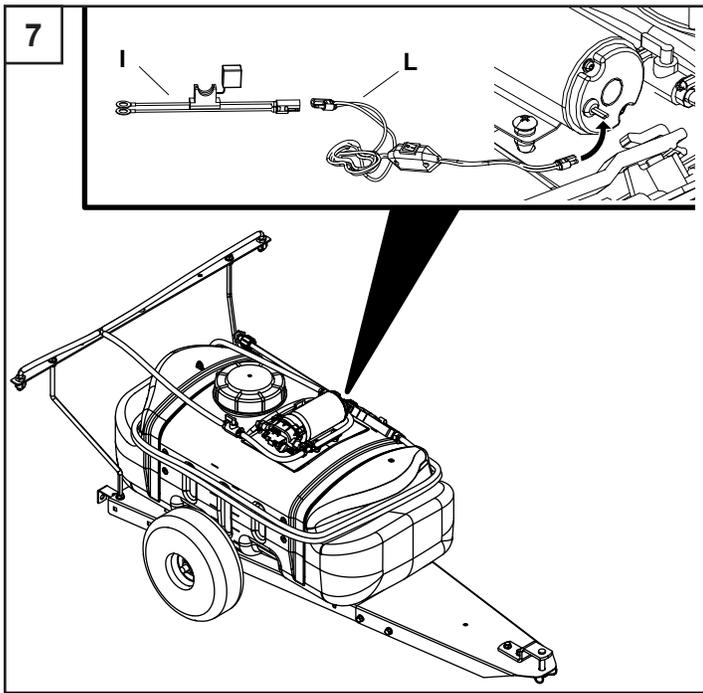


**45-0587 / 45-0588**

**15 / 25 GALLON SPRAYER**







## ENGLISH

### SAFETY

1. Read this owners manual and the vehicle owners manual before using this sprayer.
2. Never allow children to operate this sprayer.
3. Do not allow anyone to ride on or sit on this sprayer.
4. Keep the area clear of all persons, especially small children.
5. Read the chemical label before handling or mixing chemicals.
6. Wear eye and hand protection and protective clothing when handling and applying lawn chemicals.
7. Do not spray on windy days.
8. Be aware of your tractor's capabilities. Attaching this sprayer may affect your tractor's braking and stability.
9. **STAY OFF STEEP SLOPES.** Refer to the vehicle owner's manual concerning safe operation on slopes.
10. Operate at reduced speed on rough terrain, along ditches and on hillsides to prevent loss of control.

### ASSEMBLY

The meanings of symbols used in the illustrations are as follows:

Do not tighten yet.



Tighten now.



### OPERATION



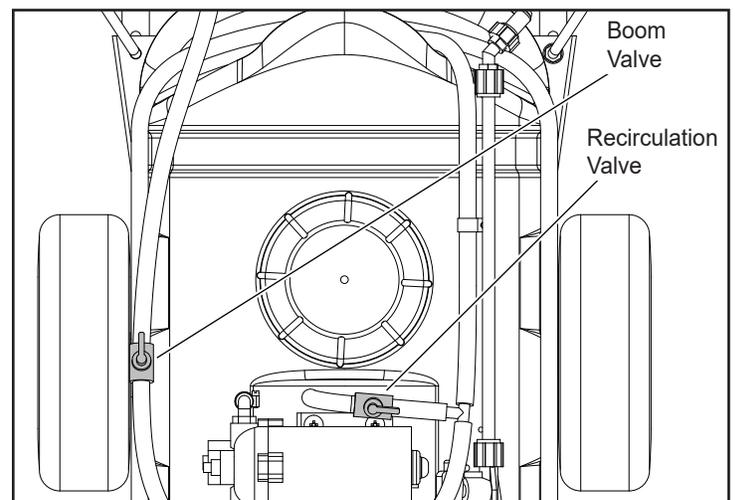
**CAUTION:** Connect to a 12 V battery only.

#### PUMP PRESSURE SWITCH

The pump pressure switch turns off the pump when it reaches its maximum pressure setting. Very low flow demand may cause the switch to rapidly cycle the pump on and off. Rapid on and off cycling must be limited to no more than 6 times per minute. Cycling could cause the motor to heat beyond the recommended maximum temperature and reduce the operational life of the pump and pressure switch.

#### SPRAYER CONTROLS

Boom ON-OFF valve shuts off the flow to the boom nozzles  
Recirculation valve adjust spray wand pressure and recirculation of spray material to the tank.



### ADJUSTABLE SPRAY GUN NOZZLE

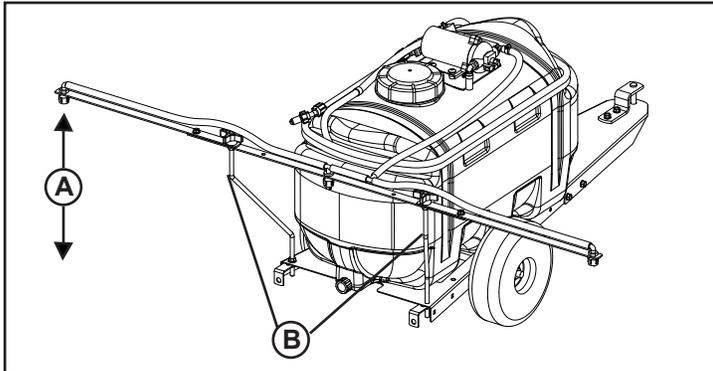
Twisting the nozzle will adjust the spray pattern from a cone shaped mist to a solid stream.

### BEFORE STARTING

1. Attach the sprayer to the tractor hitch.
2. Connect the wire harness from the switch to the pump.
3. Check for leaks using plain water. Fix leaking fittings with thread tape.

**CAUTION:** Wear eye and hand protection and protective clothing when handling and working with lawn chemicals.

1. Determine the application rate (gallons per 1,000 sq. feet) based on the chemical manufacturers recommendations.
2. Estimate the size of the area to be sprayed and the amount of solution that will be needed. This can help avoid unneeded solution left in the tank.
3. Refer to the application chart below to help determine the speed required to achieve the manufacturers recommended application rate.
4. Use plain water to set the correct boom spraying pressure. Turn the boom valve to the "ON" position. If misting occurs, gradually start closing the valve until misting stops.
5. Add the chemical solution to the tank, following the manufacturers recommendations.
6. Unfold Boom arms (25 gallon model only). Check height of spray tips to ground (A) is approximately 17" (43 cm). If necessary, adjust boom height by raising or lower the boom on the threaded boom supports (B).



7. Begin spraying, making each pass so that the spray pattern slightly overlaps the spray pattern from the previous pass.
8. Stay clear of flowers, shrubs and evergreen trees when spraying to prevent contact of the solution with these sensitive plants.

### APPLICATION CHART

| Sprayer   | Tip Size  | PSI | GMP One Nozzle |
|-----------|-----------|-----|----------------|
| 25 Gallon | TP11008VP | 30  | 0.69           |
| 15 Gallon |           | 35  | 0.75           |

| Sprayer   | Gallons per 1000 Sq. Ft. |       |       |       |       |
|-----------|--------------------------|-------|-------|-------|-------|
|           | 2 mph                    | 3 mph | 4 mph | 5 mph | 6 mph |
| 25 Gallon | 1.57                     | 1.05  | 0.78  | 0.63  | 0.52  |
| 15 Gallon | 1.7                      | 1.13  | 0.85  | 0.68  | 0.57  |

### USING THE SPRAY GUN

1. Shut off the boom by turning the boom valve to "OFF".

### SPRAYER RECIRCULATION

1. The sprayer is equipped with a recirculation valve to aid in material agitation and pressure control.
2. This valve is in the "open" position when the valve handle is in line with the hose (pictured), "closed" when perpendicular to the hose.
3. Adjusting the recirculation valve between the open/closed positions will affect the pressure coming through the spray wand only.
4. Closed position is full pressure through spray wand or boom.
5. It may be helpful to adjust the pressure when spraying with the spray wand to avoid damage to plants from excess pressure.
6. This valve should be in the "closed" position when operating the boom.

### MAINTENANCE

#### AFTER EACH USE

1. Fill the sprayer part way with water and pump the water out through the boom assembly and the handgun. Use the handgun 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.

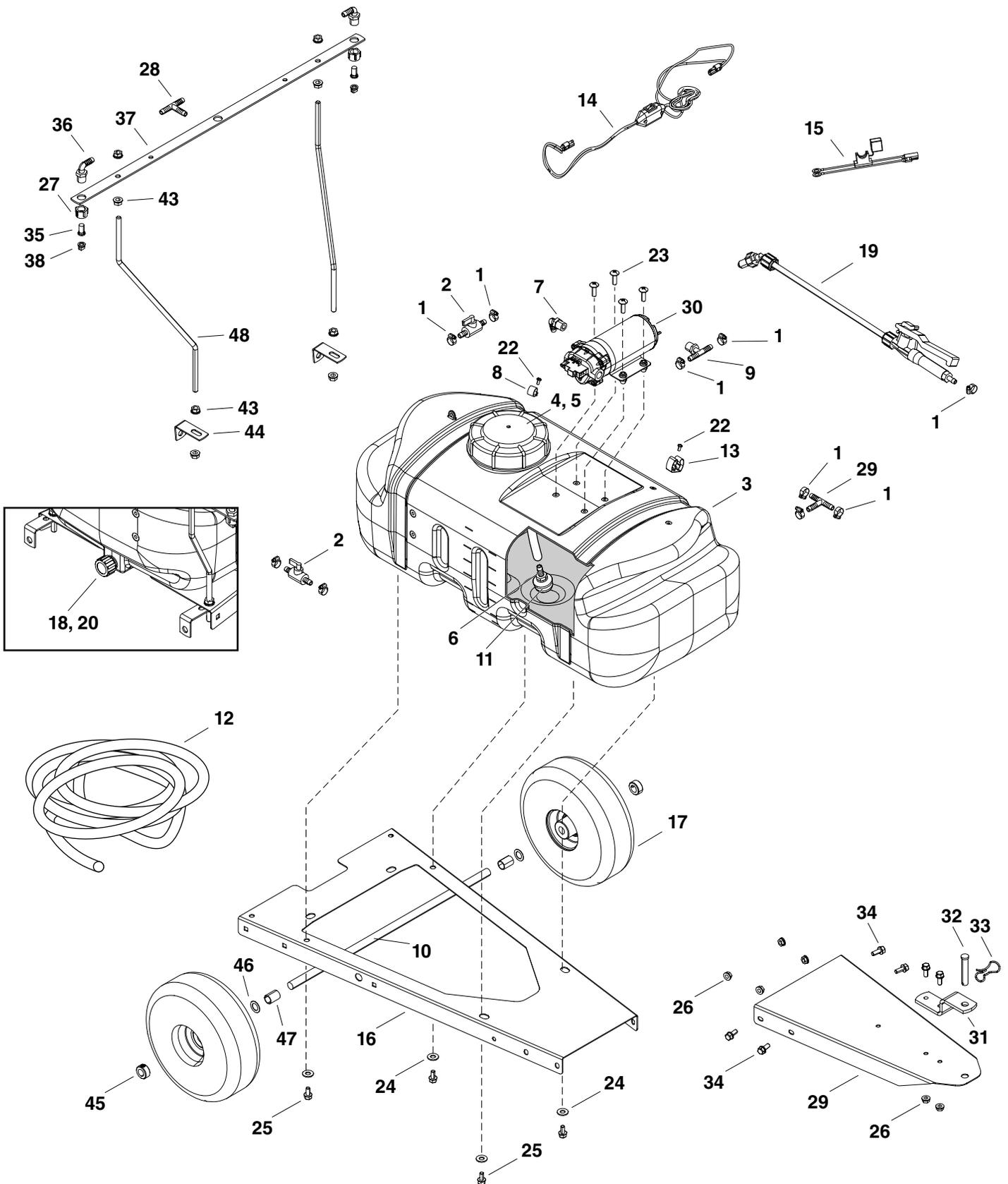
#### AS NEEDED

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.

#### WINTER STORAGE

1. Drain all water out of the sprayer, especially the pump and handgun. These items are prone to damage from freezing temperatures.
2. Winterize the sprayer by pumping a 50-50 solution of water and R. V. antifreeze through the boom assembly and the hand gun.

# 45-0587 / 45-0588



# 45-0587 / 45-0588

|    | PART NO. | QTY. | DESCRIPTION  |    | PART NO. | QTY. | DESCRIPTION                           |
|----|----------|------|--|----|----------|------|---------------------------------------|
| 1  | ST43652  | 11   | Hose Clamp, 1/2"   | 25 | ST65011  | 4    | 5/16" x 5/8" flange bolt              |
| 2  | ST43014  | 2    | In line valve 3/8" barb  | 26 | ST65008  | 6    | 5/16 Flange Nut                       |
| 3  | ST44020  | 1    | 15 Gallon Tank, White  | 27 | ST43012  | 2    | Tip Fiting Cap Nut                    |
|    | ST43519  | 1    | 25 Gallon Tank, White*   | 28 | ST43013  | 1    | Tee 3/8" barbs                        |
| 4  | ST43175  | 1    | Tank fill cap  | 29 | ST43585  | 1    | Hitch triangle                        |
| 5  | ST44017  | 1    | Lanyard for Tank Fill Cap*   | 30 | ST43918  | 1    | Pump 12V, 100psi, 2.2gpm              |
| 6  | ST43182  | 1    | Sump fitting 3/8" barb   | 31 | ST43233  | 1    | Hitch Clevis                          |
| 7  | ST43183  | 1    | Elbow 3/8" MP - 3/8" barb  | 32 | ST43468  | 1    | Hitch Pin                             |
| 8  | ST43191  | 1    | Hose holder 3/8"   | 33 | ST43623  | 1    | Bowtie Clip, Large                    |
| 9  | ST43235  | 1    | Tee 3/8" barb - 3/8" barb - 3/8" MP  | 34 | ST65007  | 6    | 5/16 x 3/4 Flange Bolt                |
| 10 | ST43243  | 1    | Axle 5/8"  | 35 | ST43016  | 2    | Spray Tip Screen                      |
| 11 | ST43258  | 1    | Sump strainer 3/8"   | 36 | ST43011  | 2    | 3/8" Elbow Fitting w/Nut              |
| 12 | ST43286  | 25   | 3/8" hose, 3/8" ID, 200 psi, black EPDM                                    | 37 | ST43169  | 1    | Boom                                  |
| 13 | ST43287  | 1    | Spray wand holder, large   | 38 | ST43466  | 2    | Spray Tip, 11008EVS                   |
| 14 | ST43472  | 1    | Wire harness, switch   | 39 | ST43170  | 2    | Side Boom* (25 Gallon)                |
| 15 | ST43483  | 1    | Wire harness, battery  | 40 | ST43289  | 2    | 3/8 Plastic Knob* (25 Gallon)         |
| 16 | ST43508  | 1    | Main frame   | 41 | ST65031  | 2    | 5/16 x 1/2 Carriage Bolt* (25 Gallon) |
| 17 | ST44021  | 2    | Wheel-tire assembly (4.10/3.50-4" 10in Tire, 5/8 Roller Bearing, Grey Rim) | 42 | ST43192  | 1    | 3/8 Barbed Tee, w/ Nut* (25 Gallon)   |
| 18 | ST43516  | 1    | Drain cap  | 43 | ST65012  | 8    | 3/8 Flange Nut                        |
| 19 | ST43673  | 1    | Spray wand with brass tip  | 44 | ST43244  | 2    | Tank / Parking Support                |
| 20 | ST43684  | 1    | Washer for drain cap*  | 45 | ST43156  | 2    | 5/8 Locking Collar                    |
| 21 | ST43844  | 2    | Grommet 5/8 ID, 1-1/8 OD, 7/8 Groove*                                      | 46 | ST65075  | 2    | 5/8 Shim Washer                       |
| 22 | ST65000  | 2    | 10-24 x 3/8" truss head screw  | 47 | ST43155  | 2    | 5/8 x 1 Axle Spacer                   |
| 23 | ST65001  | 4    | 10-24 x 1" truss head screw  | 48 | ST43532  | 2    | Boom Support Rod                      |
| 24 | ST65003  | 4    | 3/8" washer (M10)  | 49 | 3-154    | 1    | Owners Manual*                        |

## ADDITIONAL SERVICE PARTS

| PART NO. | DESCRIPTION             |
|----------|-------------------------|
| ST43921  | Pump Head Service Kit   |
| ST44031  | Pump Pressure Switch    |
| ST43466  | Spray Tip, 11008EVS     |
| ST43012  | Spray Tip Cap Nut       |
| ST43016  | Spray Tip Screen        |
| ST43124  | Spray Wand Valve/Handle |
| ST43514  | Spray Wand Brass Tip    |
| ST43515  | Spray Wand Extension    |
| ST50749  | Fuse 32V 15AATO/ATC     |

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