OPERATION

CAUTION: Avoid Injury!
Before installing or removing the sprayer, make sure the towing vehicle is parked safely.

INSTALLING SPRAYER

1. Park Machine safely.  
   (See Towing Machine manual).
2. Align sprayer towbar with towing machine hitch.
3. Install Hitch Pin through the sprayer towbar and machine hitch. Secure Hitch Pin (45) with Hairpin Cotter (49).

REMOVING SPRAYER

1. Park machine safely.  
   (See Towing Machine manual)
2. Unload sprayer tank before disconnecting from towing machine hitch.
3. Remove the Hairpin Cotter (49) and Hitch Pin (45).

4. Unhook the Wire Harness with Switch (39) from the Wire Harness Battery Connecter (38).

5. Push sprayer away from towing machine.
6. Re-install hitch pin (45) and hairpin cotter (49) through the sprayer towbar.

STORING SPRAYER

Sprayer can be stored in a vertical position, significantly reducing the amount of space needed.

1. IMPORTANT: Ensure tank is completely empty of all liquids.
2. Rotate the boom arms in, toward the sprayer tank.
3. Lift towbar up, and rotate sprayer onto the rear boom supports.
4. Allow the sprayer to sit vertical.
   Place against a wall, in a corner of the garage, or any other convenient place for storage.
OPERATION

DETERMINE WEIGHT FOR SPRAYER

**CAUTION: Avoid injury!**
Excessive towed load can cause loss of traction and loss of control on slopes. Stopping distance increases with speed and weight of towed load. Total towed weight must not exceed combined weight of pulling machine, ballast and operator.

The following maximum loaded weight capacity is the sprayer loaded with 15 gallons of water.

- **Sprayer Empty Weight** = 35 lbs
- **Maximum Load Capacity** = 125 lbs (15 gallons of water)
- **Sprayer and Maximum Load Capacity Combined Towed Weight** =

\[
\begin{align*}
35 \text{ lbs} & \quad (\text{Empty Sprayer}) \\
+ 125 \text{ lbs} & \quad (\text{Maximum Load Capacity}) \\
= 160 \text{ lbs}
\end{align*}
\]

**CAUTION: Avoid injury!**
If additional weight is required when towing, add weight at or forward of the rear wheels. Adding weight behind the rear wheels can affect machine steering. Refer to your towing machine manual.

Towing capacity will vary with weight of towing machine and operator.

Example:

\[
\begin{align*}
\text{If towing machine weighs:} & \quad 400 \text{ lbs} \\
+ \text{Operators Weight:} & \quad 200 \text{ lbs} \\
\hline
\text{Combined weight total:} & \quad 600 \text{ lbs}
\end{align*}
\]

To maintain stability using the machine in this example, you cannot safely tow more than 600 lbs without first adding additional ballast to the towing machine.

PUMP OPERATIONS

The pump motor supplied with your sprayer is a “demand flow” type pump. An internal pressure switch in the pump turns the pump off when the pressure reaches approximately 40psi. When the pump senses that pressure has dropped (by triggering the wand or boom nozzles) the pump will again start and continue to run until 40psi is reached.

**NOTE:** Pump surge should be avoided. It can cause the pump motor to overheat resulting in damage to the pump. Refer to the Wand Operations Section for tips on how to avoid pump surge.

WAND OPERATIONS

The wand can be used for spraying in various applications from a steady stream to a fine mist. Adjust the spray pattern by turning the Wand Tip clockwise for a fine mist or counterclockwise for a course spray.

**CAUTION: Avoid injury!**
Always turn pump off when making adjustments to the Wand Tip. Wear eye protection.

BOOM OPERATIONS

**BOOM SPRAYING**
Normal downward spraying configuration and is controlled by the operator in the seated position.

**WAND SPRAYING**
For spraying in a vertical orientation such as along fences or hedges, use the wand operation.
SPEED CALIBRATION

The speed of the towing machine is critical for an even spray application. Become familiar with the towing machine speed, by measuring off a distance of 50 or 100 feet.

The speed of the vehicle can be calibrated by selecting a gear and throttle position to cover the prescribed distance in the specified time as shown:

<table>
<thead>
<tr>
<th>Speed (mph)</th>
<th>50 feet</th>
<th>100 feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>17</td>
<td>34</td>
</tr>
<tr>
<td>3</td>
<td>11</td>
<td>22</td>
</tr>
<tr>
<td>4</td>
<td>9</td>
<td>17</td>
</tr>
<tr>
<td>5</td>
<td>7</td>
<td>14</td>
</tr>
</tbody>
</table>

Seconds Required to Travel

SPRAY WIDTH

The sprayer has an effective spray width of 70".

The spray overlap width is 12" per side.

The effective spray width is the true spray width that does NOT need to be overlapped during passes. (So each pass through your lawn should be 70").

APPLICATION RATE

This table gives the application rate of the boom nozzles at various speeds. Depending on the number of gallons in the tank, choose a speed that will match the coverage area given on the chemical label.

Chemical labels normally show application rates in gallons per acre or gallons per square feet. Using the following method, one can determine the appropriate amount of water to use and speed to travel to adequately follow the manufacturer’s recommended instructions.

<table>
<thead>
<tr>
<th>TABLE 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed (mph)</td>
</tr>
<tr>
<td>-----------</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
</tbody>
</table>
OPERATION

APPLICATION RATE, continued.

1. SELECT A SPEED
   Select a speed and use Table 1 (on page 28) to determine the Application Rate: ____

2. AMOUNT OF WATER
   Based on the size of your yard, select the amount of water to be used. Use the formula:
   \[
   \text{Amount of Water (gallons):} \frac{\text{Application Rate (Answer from Step 1):}}{\text{Area (ft}^2\text{) to be Sprayed}} \times \text{Area (ft}^2\text{)}
   \]

3. QUANTITY OF TANKS
   \[
   \left( \frac{\text{Answer Step 2: } \frac{\text{# of Gallons Needed}}{15 \text{ gallons (Tank Capacity)}}}{\text{Number of Tanks Required:}} \right)
   \]

4. AMOUNT OF CHEMICALS
   Determine how much chemical is to be used from the formula:
   \[
   \left( \frac{\text{Rate from Manufacturer’s Label (ounces / 1000 ft}^2\text{)}}{\text{Area to be sprayed (ft}^2\text{)}} \right) \times \text{Amount of the Chemical Required (ounces)}
   \]

5. AMOUNT OF CHEMICALS PER TANK
   \[
   \left( \frac{\text{Step 4 Answer: } \frac{\text{Amount of Chemical}}{\text{Step 3 Answer: } \frac{\text{# of Tanks}}{1 \text{ tank}}}}{\text{Amount of Chemical (per tank)}} \right)
   \]

---

Step 2 Example:
Yard Size = 20,000 ft$^2$
Using Table 1 and the formula to the left.

2 MPH:
\[
\left( \frac{.76 \text{ gal}}{1000 \text{ ft}^2} \right) \times \left( 20,000 \text{ ft}^2 \right) = 15.2 \text{ gallons}
\]

3 MPH:
\[
\left( \frac{.50 \text{ gal}}{1000 \text{ ft}^2} \right) \times \left( 20,000 \text{ ft}^2 \right) = 10 \text{ gallons}
\]

4 MPH:
\[
\left( \frac{.38 \text{ gal}}{1000 \text{ ft}^2} \right) \times \left( 20,000 \text{ ft}^2 \right) = 7.6 \text{ gallons}
\]

5 MPH:
\[
\left( \frac{.30 \text{ gal}}{1000 \text{ ft}^2} \right) \times \left( 20,000 \text{ ft}^2 \right) = 6 \text{ gallons}
\]

Example:
\[
\left( \frac{10 \text{ gal}}{15 \text{ gal}} \right) = 0.67 \text{ tanks}
\]
If the number is less than 1.0 = Only 1 fill up is required

Example:
\[
\left( \frac{2 \text{ oz}}{1000 \text{ ft}^2} \right) \times \left( 20,000 \text{ ft}^2 \right) = 40 \text{ oz}
\]
Chemical Label Specifies: 2 ounces / 1000 ft$^2$

Example:
\[
\left( \frac{40 \text{ oz}}{1 \text{ tank}} \right) = 40 \text{ ounces per tank}
\]
MAINTENANCE AND SPECIFICATIONS

MAINTENANCE TIPS

• The key to years of trouble-free service is to keep your sprayer clean and dry.
• Never allow material to remain in tank for extended periods of time.
• Should rust develop, sand lightly and then paint area with enamel.
• Periodically check all fasteners for tightness.
• Rinse / dry inside and outside of sprayer after each use.

CLEAN AFTER EACH USE

IMPORTANT: Always empty and clean the sprayer immediately after each use. Failure to do so may cause the chemicals to dry or thicken in the lines, clogging the pump and other components.

TO PROPERLY CLEAN THE SPRAY SYSTEM:
1. Drive vehicle to a designated cleaning area (a driveway or easy-to-clean surface).
2. Use three separate rinses.
3. Use a minimum of 2 gallons (7.6 L) for each rinse.
4. Use the cleaners and neutralizers as recommended by the chemical manufacturers.
5. Use pure clean water (no cleaners or neutralizers) for the last rinse.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Speed</td>
<td>5 mph</td>
</tr>
<tr>
<td>Tank Capacity</td>
<td>15 gal</td>
</tr>
<tr>
<td>Maximum Pump Pressure</td>
<td>40 psi</td>
</tr>
<tr>
<td>Fuse (Blade Type)</td>
<td>10 amp</td>
</tr>
</tbody>
</table>

CHEMICAL DISPOSAL

IMPROPER CHEMICAL WASTE DISPOSAL CAN POLLUTE THE ENVIRONMENT AND CAUSE HEALTH ISSUES.

Follow the disposal directions on the chemical manufacturer’s label. Dispose of chemicals and containers in accordance to local / state / federal laws.
QUALITY CONTINUES WITH QUALITY SERVICE

If you have installation questions, are missing parts or need replacement parts, don't go back to the store!
Please find your product serial number and model number, then contact our Customer Service department:

In North America and Canada call
Toll-Free: 877-728-8224

Chat online: www.brinly.com

Email: customerservice@brinly.com

BRINLY.COM
Additional info and videos are available on our website. Please visit the URL above OR scan this QR code.

NOTES