Safety Precautions

- Do not pressurize tank with external air or gas source; do not pressurize above 50 psi.
- Do not adjust the tip or change spray patterns while depressing the valve trigger.
- Open tank cap slowly to release air before removing; keep tank upright when releasing pressure.
- Do not store or transport the unit while tank is pressurized.

Before Starting

- Inspect the hose, tank gasket, discharge valves, and nozzle for signs of wear or damage. These parts must be in full working condition to permit tank pressurization.
- It is recommended that compressed-air sprayers be used with a pressure gauge (B&G #AG-3) or a pressure regulator (B&G #460) fitted to the valve.

Operating Instructions

Filling and Mixing
- When mixing insecticides in the tank, first add about 1/2 the water then the chemical, followed by the remainder of the water required.
- Note gallon marks on the side of the tank and mix accordingly.
- Replace the pump and tank cap assembly, be sure the tank gasket fits properly; tighten the cap until snug (do not over tighten).
- Mix all insecticides according to label directions.

Pressurizing the Tank
- Disengage the handle from locked position by pressing down and turning 1/4 turn to the left.
- Pump plunger up and down until desired pressure for application is achieved, then engage handle in the locked position.

Operation

B&G sprayers are designed for a variety of professional uses, such as outdoor perimeter spraying, and indoor spraying, which includes surface treatments and crack-and-crevice applications.

Application Rates*

50° coarse fan = 14.1 oz/min
80° fine fan = 6.4 oz/min
Pin stream = 8.9 oz/min (large)
4.5 oz/min (small)

*Calibrated at 20 psi

Care and Maintenance

- Flush tank, valve, and extension with clean water regularly.
- Do not use bleach or ammonia-based cleaners, these will damage the stainless steel and brass parts.
- After rinsing the tank with clean water, pressurize the tank and flush the valve and hose.
- Inspect hoses and hose connections, gaskets, washers and other fittings for wear; replace when necessary.
- Clean the filter at the hose/valve connection regularly.
- Do not use metal objects to clean the orifices in the nozzle, this will disrupt the liquid spray pattern.
- Use the B&G Cleaning Kit (#22028000) for regular maintenance and cleaning of the sprayer.

Trouble Shooting

Problem: Tank not holding pressure
Solution: • Tighten tank cap
• Replace tank gasket (P-268)

Problem: Tank not getting air pressure
Solution: • Replace plunger cup (NPO-277)
• Replace or add oil to leather plunger cup

Problem: Pump cylinder filling with water when pumping
Solution: • Clean around the check valve at the bottom of pump cylinder
• Replace the check valve (PV-266)

Problem: Holds pressure, but will not spray
Solution: • Nozzle clogged, clean with a soft brush
• Cracked siphon tube, replace
• Siphon tube clogged, clean end
• Clean strainer at the base of the valve, at the hose / valve junction

Problem: Hose leaks at tank fitting
Solution: Replace hose washer (D-51-P)

Problem: Valve body leaking
Solution: • Extenda-Ban: Tighten packing nut, replace packing washers (in D-124 Repair Kit)
• XR-Valve: Replace O-ring at base of handle; replace copper gasket at base of valve stem (in GT-100 Repair Kit)
• Ban-Drip: Tighten packing nut; replace rod packing (RP-48)

Problem: Tip Leaking
Solution: • Extenda-Ban: Clean or replace soft seat gasket, replace valve spring (in GD-124 Repair Kit)
• XR-Valve: Clean or replace check valve at end of valve extension
• Ban-Drip: Clean or replace seat gasket; replace rod spring (RS-49)
### Ban-Drip Valve

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>VB-40</td>
<td>Valve body</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>VT-41</td>
<td>Valve trigger</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>SA-42</td>
<td>Mesh strainer</td>
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<tr>
<td>SB-43</td>
<td>Pipe strainer</td>
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<td></td>
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<tr>
<td>TS-44</td>
<td>Trigger screw</td>
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<td></td>
</tr>
<tr>
<td>TN-45</td>
<td>Trigger nut</td>
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<td></td>
</tr>
<tr>
<td>VR-46</td>
<td>Valve rod, pin</td>
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<td></td>
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</tr>
<tr>
<td>PN-47</td>
<td>Brass packing nut</td>
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### XR Valve

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>22037500 Valve assembly</td>
</tr>
<tr>
<td>2</td>
<td>22037510 XR Valve Kit</td>
</tr>
<tr>
<td>3</td>
<td>22037503 Handle</td>
</tr>
<tr>
<td>4</td>
<td>22037508 O-ring (Viton)</td>
</tr>
<tr>
<td>5</td>
<td>22037501 XR Valve body</td>
</tr>
</tbody>
</table>

### Extenda-Ban Valve

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>VB-147 Valve body</td>
</tr>
<tr>
<td>21</td>
<td>VT-140 Valve Trigger Kit</td>
</tr>
<tr>
<td>24</td>
<td>PN-150-2 Packing nut (s. steel)</td>
</tr>
<tr>
<td>26</td>
<td>VP-151 Valve packing washer</td>
</tr>
<tr>
<td>28</td>
<td>AS-148 Adjustment Screw Kit</td>
</tr>
<tr>
<td>30</td>
<td>SL-162 Safety lock nut</td>
</tr>
<tr>
<td>31</td>
<td>NG-146 Nylon gasket</td>
</tr>
<tr>
<td>32</td>
<td>MS-143-50 Mesh Strainer Kit</td>
</tr>
<tr>
<td>34</td>
<td>SA-143 Strainer housing</td>
</tr>
<tr>
<td>35</td>
<td>VC-152 Valve cable, 9 in.</td>
</tr>
<tr>
<td>36</td>
<td>VC-153 Valve cable, 18 in.</td>
</tr>
<tr>
<td>36</td>
<td>VC-163 Valve cable, 24 in.</td>
</tr>
<tr>
<td>36</td>
<td>VE-154 Valve extension, 24 in.*</td>
</tr>
<tr>
<td>36</td>
<td>VE-155 Valve extension, 18 in.*</td>
</tr>
</tbody>
</table>

### Stainless Steel Sprayer

#### Tank and Hose

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>T-50</td>
<td>Tank, 1/2 gal., 2 L</td>
</tr>
<tr>
<td>T-100</td>
<td>Tank, 1 gal., 4 L</td>
</tr>
<tr>
<td>T-200</td>
<td>Tank, 2 gal., 7.6 L</td>
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<tr>
<td>T-300</td>
<td>Tank, 3 gal., 11.3 L</td>
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<tr>
<td>T-500</td>
<td>Tank, 5 L</td>
</tr>
<tr>
<td>HS-297</td>
<td>Siphon tube, 1/2 gal., 2 L</td>
</tr>
<tr>
<td>OS-297</td>
<td>Siphon tube, 1 gal., 4 L</td>
</tr>
<tr>
<td>TS-297</td>
<td>Siphon tube, 2 gal., 7.6 L</td>
</tr>
<tr>
<td>THS-297-01</td>
<td>Siphon tube, 3 gal., 11.3 L</td>
</tr>
<tr>
<td>FS-297</td>
<td>Siphon tube, 5 liter</td>
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<tr>
<td>HA-298</td>
<td>Adapter, hose</td>
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<tr>
<td>TT-1</td>
<td>Tank top (1 gal.)</td>
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<tr>
<td>4D</td>
<td>Tank bottom</td>
</tr>
<tr>
<td>5</td>
<td>Tip holder</td>
</tr>
<tr>
<td>6</td>
<td>Hose, 4 ft. red</td>
</tr>
<tr>
<td>7</td>
<td>Hose washer</td>
</tr>
<tr>
<td>8</td>
<td>P-275 Pump handle</td>
</tr>
</tbody>
</table>

#### Packing Nut

- PN-150 valvemade before 1999
- PN-150-1 valvemade 1999-2000
- PN-150-2 valvemade after 2000

### XR Valve

- VE-164 Valve extension, 24 in.*
- VE-154-SS Valve extension, 8 in.**
- VE-155-SS Valve extension, 18 in.**
- VE-164-SS Valve extension, 24 in.**
- VS-156 Valve spring
- SSL-157 Seat stem nut
- SS-158 Seat stem
- SP-159 Soft seat gasket
- 5850-CC Multiejet tip assembly
- 9751-M Multiejet tip holder
- 4190 Viton gasket
- 5800-CC Multiejet CC tip
- 4596 Tip retainer

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**XR Valve**

**Extenda-Ban Valve**

**Stainless Steel Sprayer**

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**B&G Help Line**

**800-544-8811**

**135 Region South Drive • Jackson, GA 30233**

Toll Free 800-544-8811 • Phone 678-688-5601

www.bgequip.com • Fax 678-688-5633
1. Detach the Valve and Extension from the hose. Carefully remove the mesh strainer. Squeeze the Trigger to drain all liquid from the Valve.

2. Remove the Trigger (1), then the Snap ring (5), Safety lock nut (6), the Adjustment screw (4), the Lock nut (3), and then the Packing nut (2). The Trigger can be removed by moving it to the back of the Valve.

3. Unscrew the extension at the front of the valve. The extension can be pulled away from the valve along with the interior steel cable.

4. Packing washers (white) that were at the end of the cable will remain inside the valve. Carefully dislodge and remove these washers.

5. Remove the tip and nozzle assembly from the end of the extension, be careful to keep the Soft seat gasket. **Use 2 wrenches to loosen the tip:** one to hold the extension, and a second to loosen the tip. **Note: the extension may become twisted and unusable unless 2 wrenches are used to remove the tip.** Inspect the soft seat gasket and the small O-ring on Multeejet tips, replace if damaged or worn. Replace the nozzle if it is more than 2 years old.

6. Push the cable out the front of the Extension to expose the Spring, the small Lock nut, and the Seat stem. Unscrew the Seat stem and Lock nut, and slide off the Spring. Place these small pieces in a closed container (they are easily misplaced).

7. Remove the stainless steel cable by pulling it slowly through the back end of the Extension – you cannot pull the cable through the front of the Extension. The threaded end of the cable at the nozzle end is short and easily passes through the curve in the Extension. The end of the cable at the valve end is long and will not pass through the curve. Replace the cable if it is worn or damaged.

8. Re-assemble the Extension by inserting the short end of the cable into the back so that threads are exposed at the nozzle end.

9. Slide the Spring onto the end of the cable, then the Seat stem lock nut. Screw lock nut to leave **about 4 threads** at the base of the end of the cable.

10. Attach the Seat stem onto the cable, in front of the Lock nut. Hand tighten Seat stem against the lock nut.

11. Insert the long end of the cable into the front end of the valve. Push the cable through the valve until the end is through the back of the valve. Tighten Extension to the valve body.
Insert 2 or 3 Packing washers onto the cable, then slide on the Packing nut behind the washers and tighten.

- Valves built before 1999 have a stainless steel Packing nut that takes 3/8 wrench, there is no internal O-ring, these valves need 3 washers.
- Valves built between 1999 and 2000 have a brass Packing nut + O-ring, this nut takes a 7/16 wrench, these valves need 2 washers.
- Valves built after 2000 have a stainless steel Packing nut + O-ring, this nut takes a 3/8 wrench, and these valves require 3 washers.

Screw onto the cable the Lock nut and the Adjustment screw. Turn the Adjustment screw so the end of the cable is level to the top of the slot in the top of the screw. Tighten the Lock nut against the screw.

Attach the valve trigger by inserting it into the space between the Lock nut and Adjustment screw, then insert the Trigger screw.

Screw the Safety lock nut into the valve body, and then attach the Snap ring.

Attach the tip and nozzle to the end of the Extension, make certain the Soft seat gasket is facing correctly. The small end faces the Extension. Press the Trigger to retract the Seat stem into the Extension, then attach the tip and nozzle.
**Problem:** Tank holds pressure, but there is no spray from nozzle *(old sprayer).*

**Solution:**
1. Siphon tube is clogged or cracked, it must be cleaned or replaced.
2. Clean the mesh Strainer at the end of the hose near the valve.
3. Clean the nozzle with a small brush.*
4. Clean or replace Soft seat gasket at the end of the extension.

**Problem:** Valve is leaking around the Packing nut, and the handle is wet.

**Solution:**
1. Tighten the Packing nut.
2. Replace the valve Packing washers.
3. 2 washers with brass Packing nut
4. 3 washers with stainless steel Packing nut

**Problem:** Extension is leaking at the tip, a constant drip from the tip.

**Solution:**
1. Clean or replace nozzle O-ring.
2. Clean end of Seat stem.
3. Clean or replace Soft seat gasket.
4. Replace the Valve spring.

**Problem:** Tank holds pressure, but there is no spray from nozzle *(old sprayer).*

**Solution:**
1. Siphon tube is clogged or cracked, it must be cleaned or replaced.
2. Clean the mesh Strainer at the end of the hose near the valve.
3. Clean the nozzle with a small brush.*
4. Clean or replace Soft seat gasket at the end of the extension.

**Problem:** Tank is not holding pressure; pump is working but no pressure remains in the tank.

**Solution:** Check Pump gasket, replace if cracked.

**Problem:** Tank is not getting pressure; the pump seems to be working but no pressure builds in the tank.

**Solution:** Grease Plastic cup in pump tube, or replace cup and Spreader Plate.

**Problem:** Pump cylinder fills with liquid, pumping is difficult.

**Solution:** Clean dirt from bottom of pump tube, replace Check valve at bottom.

**Problem:** Won’t spray; tank holds pressure but there is no spray from the nozzle, *a new sprayer.*

**Solution:** Replace Hose washer, it may have been damaged when hose was attached to tank; the junction may have been over-tightened!