



STYLE 922 OZZIEMASTER™ PORTABLE OSCILLATING MONITOR INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS

INTENDED USE

The OzzieMaster monitor is designed to operate as a portable oscillating water monitor intended to provide efficient trouble-free operation for fire fighting applications. The OzzieMaster monitor is intended to be deployed for unmanned operation. The following instructions are provided to assist in obtaining the best possible performance from this unit. Read and understand these operating instructions before use.

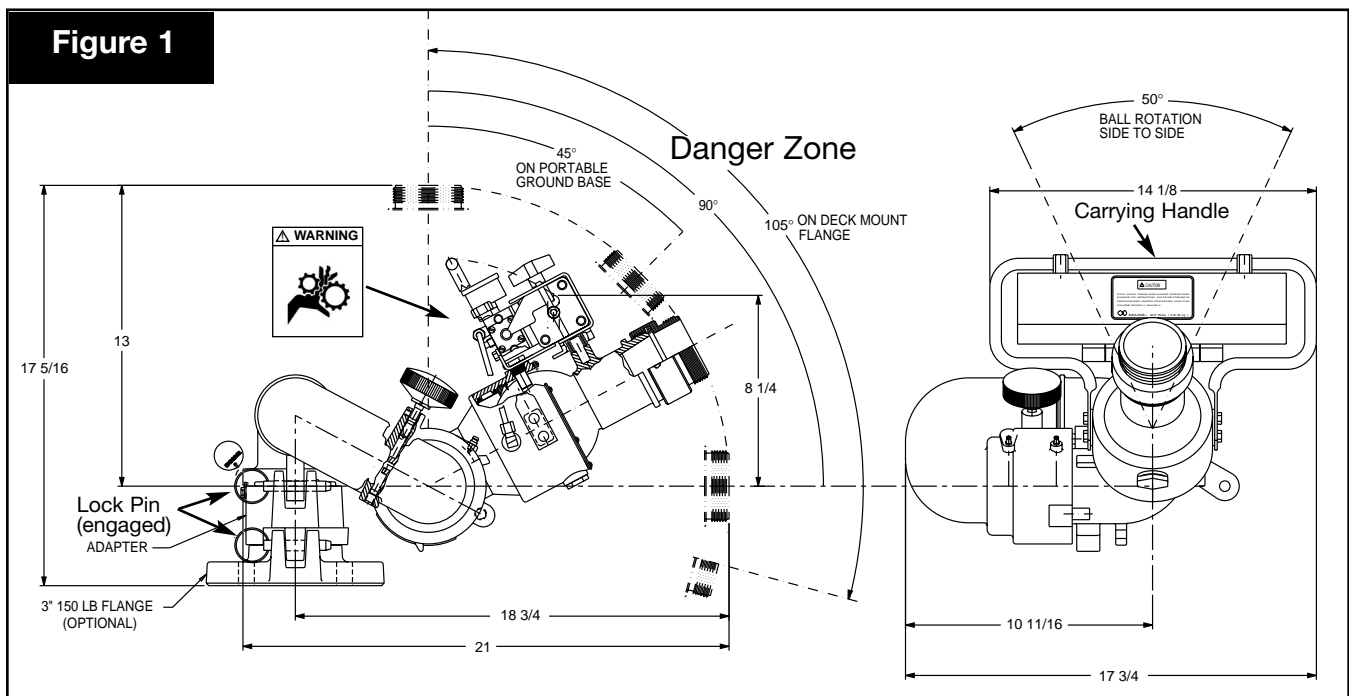
PRODUCT RATINGS


| | |
|-------------------|---|
| Mass (liftoff): | 27.5 lb. (12.5 Kg) |
| Maximum Flow: | Single Inlet 1000 gpm (3800 lpm), Dual Inlet 750 gpm (2900 lpm) |
| Maximum Pressure: | 150 psi (1020 Kpa, 10.2 bar) |
| Minimum Pressure: | 70 psi (483 Kpa, 4.8 bar) |
| Noise Emission: | 82 Db at 1m |

PRODUCT WARNINGS

- △ **WARNING:** Read and follow the Warning Tag Instructions on the Lock Pin Lanyard.
- △ **WARNING:** Read and follow the Safety Chain Warning Tag located on the Ground Base Tag.
- △ **WARNING:** Read and follow the Set Up Instruction Tag located on Inlet Body.
- △ **WARNING:** Incorrect hose layout may cause instability.
- △ **WARNING:** For fire fighting use only by trained fire fighters.
- △ **WARNING:** Charge the unit slowly. Rapid charging may cause a pressure surge with the potential to cause injury or damage to the unit.
- △ **WARNING:** Aim the unit in a safe direction before pumping water through it.
- △ **WARNING:** Replace the identification tag and warning tag if they should become worn or damaged.
- △ **WARNING:** Do not exceed the maximum pressure or flow ratings of the monitor. Exceeding these ratings may lead to an injury or may cause damage to the monitor.
- △ **WARNING:** Do not install shut-offs on the outlet of the OzzieMaster monitor. Shut-offs may cause pressure surges with the potential to cause an injury or damage the product.
- △ **WARNING:** Drain the unit after use to prevent freeze damage.
- △ **WARNING:** Ensure the thread on the nozzle matches the thread on the monitor outlet threads. Do not over tighten.
- △ **WARNING:** Keep all personnel out of the Danger Zone (Figure 1), in front of the outlet of the monitor, when the water source is attached. Dangerous flow velocities can cause serious injury.

Figure 1



- ⚠ **WARNING:** Ground spikes are sharp and pose a potential drop hazard. Use proper carrying techniques to avoid dropping the unit on the operators foot or leg.
- ⚠ **WARNING:** The OzzieMaster monitor contains moving parts. Keep hands, fingers, and objects away from moving parts and never operate without guards. 
- ⚠ **WARNING:** The flow of water is not controlled at the monitor. Sudden flow can occur from a remote pumper location. Stay away from Danger Zone as shown in Figure 1.
- ⚠ **WARNING:** If flow is interrupted and then reestablished oscillation will remain engaged.

GENERAL INSTRUCTIONS

While operating in the direct mount flange or portable base, THE TWO LOCK PINS MUST BE FULLY ENGAGED AT ALL TIMES. (See Figure 1)

A. REMOVE THE MONITOR

To remove the monitor from either the direct mount flange base or portable base, hold the monitor securely by the carrying handle and pull each lock pin straight out. (See Figure 1)

B. INSTALL THE MONITOR

To install the monitor onto either the direct mount flange base or the portable base, place the monitor onto the appropriate base so that the holes in the ears are aligned. Then take one lock pin at a time and insert it through the holes in the ears. MAKE SURE BOTH LOCK PINS ARE FULLY ENGAGED BEFORE OPERATING. (See Figure 1)



When changing from the direct mount flange base to the portable flange base, BE SURE THE OUTLET ELBOW IS ABOVE THE 45° VERTICAL SAFETY STOP. ENSURE THAT ALL FOLDING LEGS ARE FULLY DEPLOYED BEFORE USE. This is essential for proper stability in the portable mode. An adjustable safety chain with a hook is provided in the front of the portable base as an additional safety precaution. Connect the hook to a rigid stationary object in front of the unit such as a parking meter, manhole, car wheel, etc., and pull the chain tight. DO NOT OPERATE THE UNIT IN THE PORTABLE BASE WITHOUT SAFETY CHAIN SECURED. To release the hook and/or lengthen the chain, hold the spring loaded latch open and pull the chain through the eye of the hook.

SET-UP INSTRUCTIONS

When the OzzieMaster monitor is used with the portable base on concrete, each spike must be “set” with the head of the safety hook, a 16 oz. hammer or equivalent. After the OzzieMaster is hooked up to a water supply and ready to flow, set the spikes in rotation by striking the hex head bolt, over each ground spike, with a sharp blow from a hammer or another tool sufficient to drive the spike at least 1/8” (3mm) into the concrete. This process must be repeated each time the unit is repositioned on a concrete surface. As with any portable monitor, the OzzieMaster should always be secured with the safety chain or rope before using on any surface.

⚠ CAUTION: Wear safety glasses or face shield when setting the spikes.

The portable base is designed to grip by imbedding the ground spikes into the surface on which it is operating. These spikes will not grip on metal, marble, or similar hard surfaces. Do not operate on these surfaces without securing the unit with a rope or some other stable means, in addition to the safety chain.

The ground spikes in the portable base are made of a special hardened tool steel to remain sharp through extended use. If, after use, the flats on the ends of the spikes exceed 1/16” (1.5mm) diameter, the spikes must be sharpened or replaced. (See Maintenance Instruction Section)

Each spike must be in uniform contact with the ground surface at all times during use. Make sure that no large rocks or other debris are under the portable base during use, for this may cause the spikes to come out of contact with the ground surface.

⚠ WARNING: The OzzieMaster monitor is designed with a safety stop at 45° above horizontal to maintain stability when used in the portable base. Do not release the elevation stop and operate below that point unless the unit is secured in the direct mount flange base.

A. DUAL INLET GROUND BASE

The Dual Inlet/Flange Adapter must be used with the Dual Inlet Ground Base (See Figure 2).

When used with the dual inlet base, the unit should not be operated at more than 500 GPM (1900 LPM) with one hose and 750 GPM (2900 LPM) with two hoses. Therefore, do not exceed the following discharge pressures with straight tips unless the unit is secured in the direct mount flange base:

| TIP SIZE | TWO HOSES | | ONE HOSE | |
|----------|-----------|-----|----------|-----|
| | PSI | kPa | PSI | kPa |
| 1 3/8" | 100 | 690 | 75 | 515 |
| 1 1/2" | 100 | 690 | 55 | 380 |
| 1 3/4" | 70 | 480 | NR | NR |
| 2" | 50 | 345 | NR | NR |

NR-Not recommended

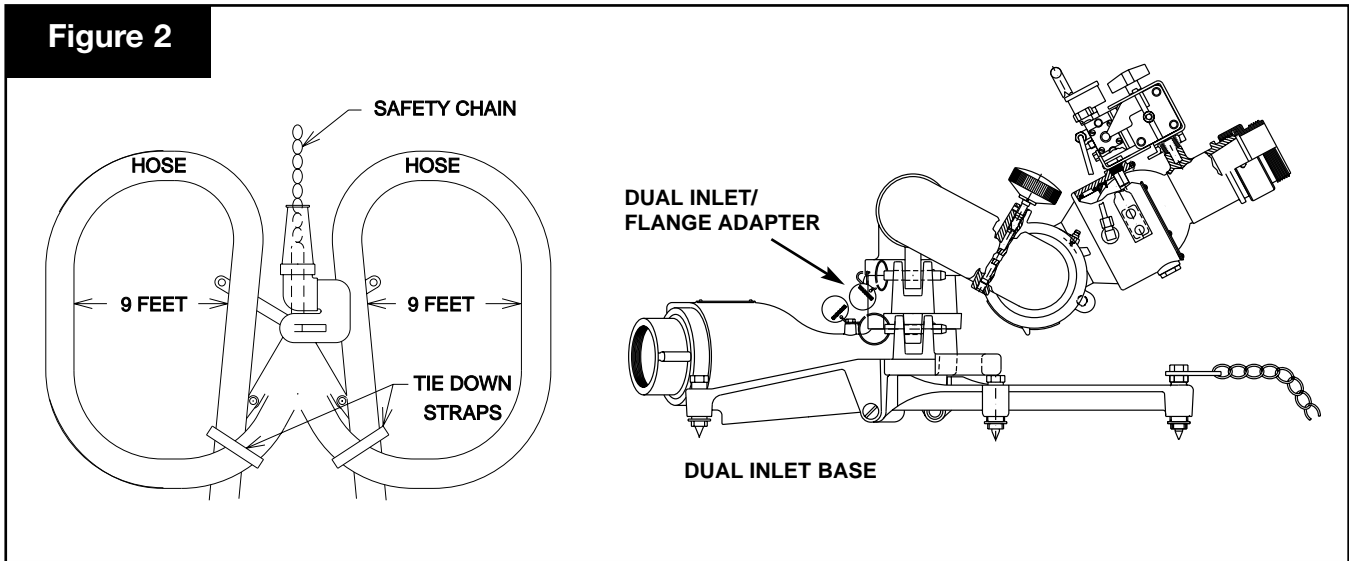
Also, do not exceed 500 GPM (1900 LPM) with one hose or 750 GPM (2900 LPM) with two hoses, when using a fog nozzle, unless the unit is secured in the direct mount flange base.

⚠ WARNING: Do not use Larger than 3” Hose for the Dual Inlet Ground Base.

Note: The two tie down straps must be added to both rear legs of the Dual Inlet Ground Base. Remove the existing ground spike sleeve from both rear legs (See Figure 2A) and replace with the new sleeve, straps and bolt (See Figure 2A).

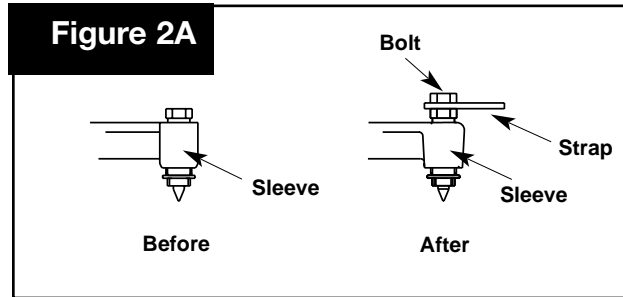
The following hose set-up must be used to provide necessary stability when operating the Dual Inlet Ground Base (Figure 2).

Figure 2



1. Aim center leg toward target. Slide buckles to end of tie-down straps.
 2. Connect straps loosely around hose. DO NOT tighten.
 3. Set spikes with hammer.
 4. Ensure lock pins are fully engaged.
 5. Aim discharge upward.
 6. Secure safety chain.
 7. Charge hose slowly.
 8. Tighten straps around hose.
- If unit moves while charging, reset spikes.

Figure 2A



B. SINGLE INLET GROUND BASE

Note: The Single Inlet Adapter (optional) must be used with the 3411/3413 Single Inlet Base and appropriate flange base (Lock Pin hole spacing is 6³/₄”). (See Figure 3)

When used with the Single Inlet Base, the unit should not be operated at more than 1000 GPM (3800 LPM). Therefore, do not exceed the following discharge pressures with straight tips.

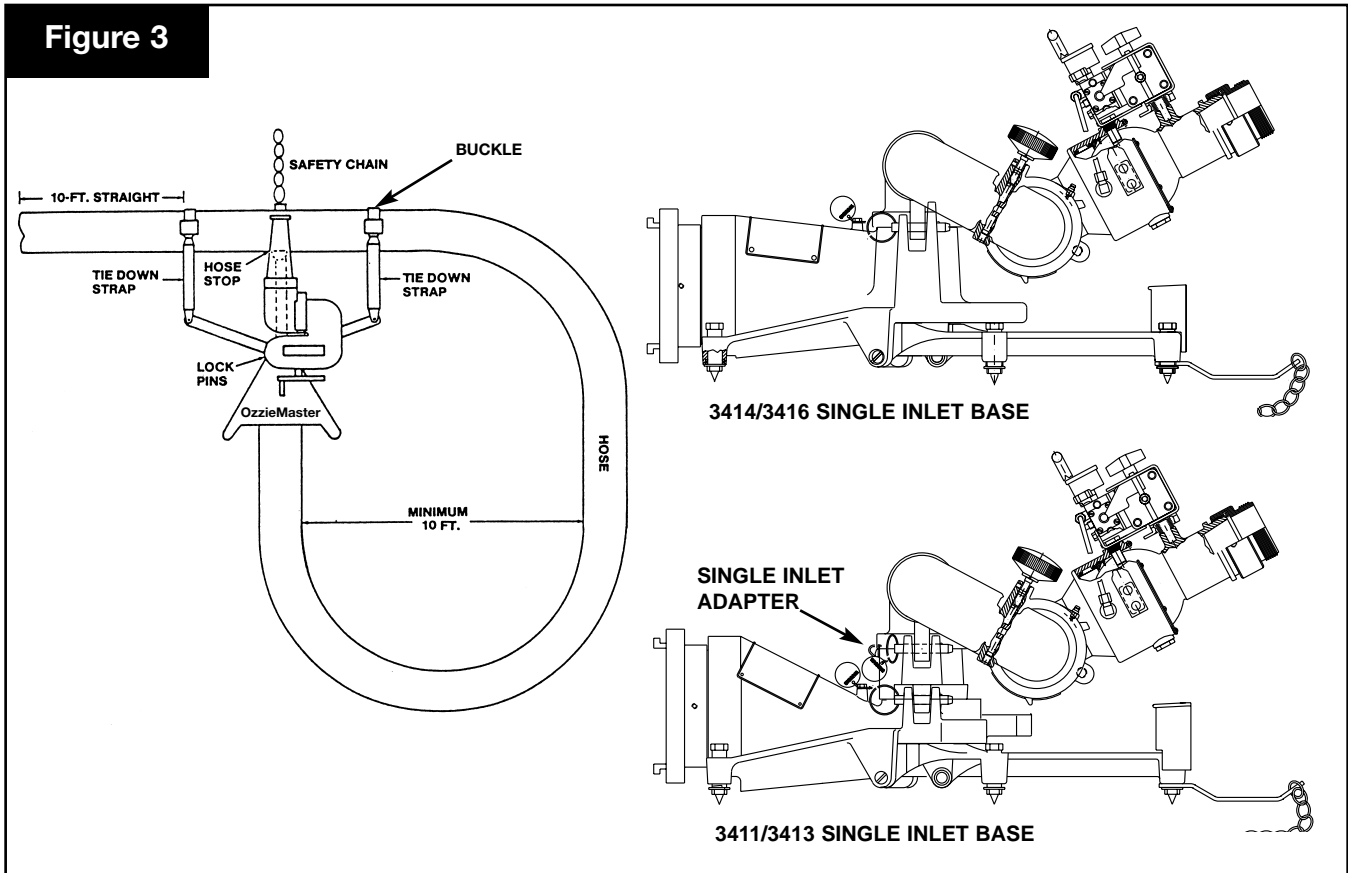
| TIP SIZE | PSI | kPa |
|---------------------------------|-----|-----|
| 1 ³ / ₈ ” | 100 | 690 |
| 1 ¹ / ₂ ” | 100 | 690 |
| 1 ³ / ₄ ” | 100 | 690 |
| 2” | 75 | 515 |

Also, do not exceed 1000 GPM (3800 LPM) when using a fog nozzle. Be sure the storz or swivel is attached securely. For use with 4”, 4¹/₂” or 5” hose only.

The following hose set-up must be used to provide necessary stability when operating the Single Inlet Ground Base. (See Figure 3)

1. Aim center leg toward target. Slide buckles to end of tie-down straps.
2. Connect straps loosely around hose. DO NOT tighten.
3. Set spikes with hammer.
4. Ensure lock pins are fully engaged.

Figure 3



5. Aim discharge upward.
 6. Secure safety chain.
 7. Charge hose slowly.
 8. Tighten straps around hose until it contacts hose stop.
- If unit moves while charging, reset spikes.

C. DIRECT MOUNT FLANGE

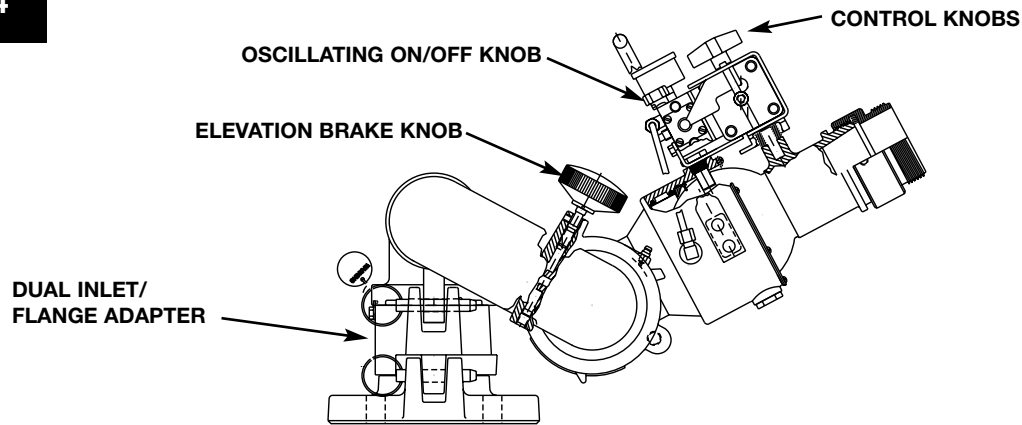
The Dual Inlet/Flange Adapter must be used with the Direct Mount Flange. (See Figure 4)

Note: The OzzieMaster does not have any horizontal rotation therefore the Direct Mount Flange must be mounted at a known set position (Example: Facing the target). There will then be two mounting positions 180° apart.

Ensure lock pins are fully engaged. Aim discharge in a safe direction. Charge unit slowly.

- ⚠ **CAUTION:** When the unit is stored in the direct mount base, it is recommended that the nozzle or tip be lowered against a rigid support or removed during transportation to avoid damage to the product.
- ⚠ **DANGER:** The oscillating discharge applies side loads to the mounting flange. These types of loads are not typical of fire fighting monitors. The flange connection to the truck or pipe must be able to withstand a torque of 300 ft-lbs. If NPT connections are used, they must be tightened to at least 300 ft-lbs. Failure to do so may allow the flange to spin on the pipe, and possibly come off, putting personnel at risk of being hit by the nozzle discharge.

Figure 4



OPERATING INSTRUCTIONS

A. FLOWING WATER

Slowly charge the hose line with water. Build pressure until the gauge reads the rated tip pressure. A minimum operating pressure of 70 psi is required.

NOTE: The unit will discharge some water from the oscillation mechanism during use.

B. CHANGING SWEEP RANGE

1. Before adjusting the sweep range, stop the oscillation by depressing the oscillation ON/OFF knob.
2. Move the travel control knobs to desired position. The left knob controls the right travel and the right knob controls the left travel. (See Figure 4)
3. Restart oscillation by gently pulling oscillation ON/OFF knob out.

C. TO STOP UNIT IN PLACE AND USE AS A NON-OSCILLATING MONITOR

Depress the oscillation ON/OFF knob when the nozzle reaches desired position.

D. TO CHANGE THE ELEVATION POSITION

1. Before adjusting the elevation, STOP the oscillating motion by pushing in on the oscillation ON/OFF knob.
2. Loosen the elevation brake knob and adjust the elevation to desired position. (See Figure 4) Once position is reached, tighten the elevation brake knob.
3. Restart oscillation by gently pulling oscillation ON/OFF knob out.

E. AFTER SHUTDOWN

1. Remove hose.
2. Tilt the unit and drain as much water as possible from the body of the unit.
3. Move the discharge outlet back and forth by hand to drain as much additional water as possible from the unit. This minimizes the possibility of corrosion and freezing.
4. If the unit was used for foam application, with salt water or with blackish or dirty water, be sure to operate with clean water for at least 5 minutes after shut down.
5. A carrying handle is provided for manual transport of the liftoff portion only.

⚠ WARNING: Do not use carrying handle to transport the liftoff while installed to a ground base.

ROUTINE MAINTENANCE INSTRUCTIONS

The following maintenance procedures will extend the service life of this appliance.

- ⚠ **WARNING:** Maintenance should not be performed while flowing water. Disconnect from water supply prior to maintenance.
- A. Piston Rod Lubrication - Lightly grease each end of the piston rod with Parker-O-Lube or equivalent barium grease when it becomes dry or every three (3) months. When greased properly, the rod will have an evenly dispersed layer of grease covering the exposed portion of the rod. Distribute grease evenly by pushing the outlet back and forth.
 - B. Safety Straps - Examine strap for wear and make sure both hooks easily snap into the front leg clips. If straps need replacement, contact your local Akron Brass Distributor.
 - C. Every six months, lightly grease the threaded portion of the elevation brake knob with Parker-O-Lube or equivalent barium grease.
 - D. Examine the points of the ground spikes in the portable base. If the flat of any spike exceeds $\frac{1}{16}$ " (1.5mm) diameter, it must be sharpened or replaced. To sharpen, use a flat file or grinder and maintain the same taper as the original spikes. If a grinder is used, do not allow the spikes to become hot, or change color, since this will reduce the hardness and will not remain sharp in service.
 - E. Check the spring loaded spike holders in the portable base to ensure that they move freely. Use a dry spray lubricant if lubrication is required.
 - F. Check that the elevation safety stop operates properly. This stop must be released to lower the unit below 45° elevation.
 - G. Check both the inlet clappers function properly on the Dual Inlet Base. Lubrication is not normally required in this area.
 - H. Check that the latch of the safety chain hook engages properly in the chain.
 - I. If any of the parts do not function properly, contact Akron Brass for repair instructions or return the unit to either Akron Brass Company or Akron Manufacturing Company.

TROUBLESHOOTING

If the unit fails to operate properly or stops:

- A. Check oscillation ON/OFF knob. Make sure knob is pulled out.
- B. Check operating pressure. Make certain an operating pressure of at least 70 PSI (438 kpa, 4.83 bar) is maintained.
- C. Check travel control knobs. Do not place both travel control knobs on the center position at the same time. If you want to stop the oscillation, depress the oscillation ON/OFF knob as previously described in the Operating Instructions, Section C.
- D. If the unit stops during operation, lower the line pressure to zero, push the discharge outlet against the left stop and repressurize.



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REVISED 09/00

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