



# MANUAL: BLITZFIRE MONITOR SERIES

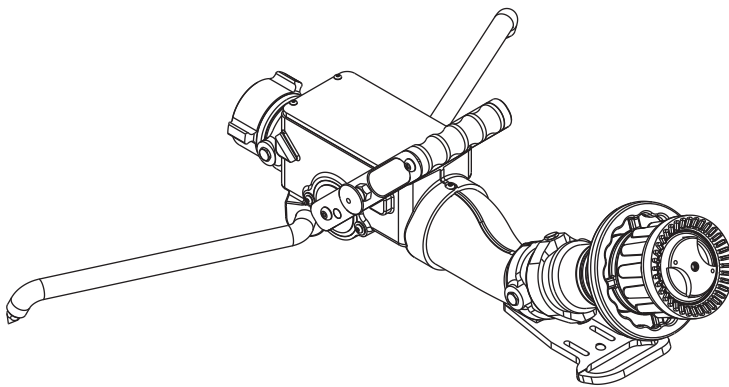
## INSTRUCTIONS FOR SAFE OPERATION AND MAINTENANCE

### **⚠ DANGER**

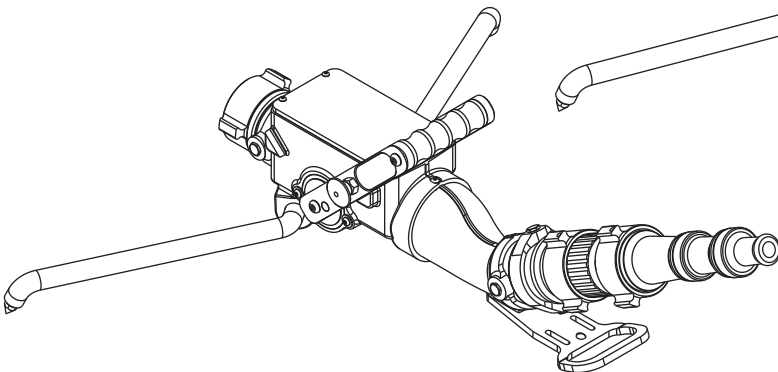
Read instruction manual before use. Operation of this device without understanding the manual and receiving proper training is dangerous and is a misuse of this equipment.

### **⚠ DANGER**

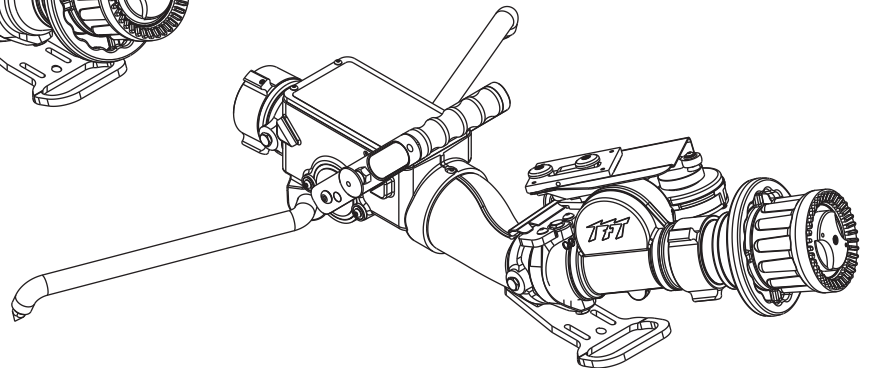
Risk of sliding increases at low elevation angles. To reduce risk of injury or death from sliding, test safety shut-off valve before using.



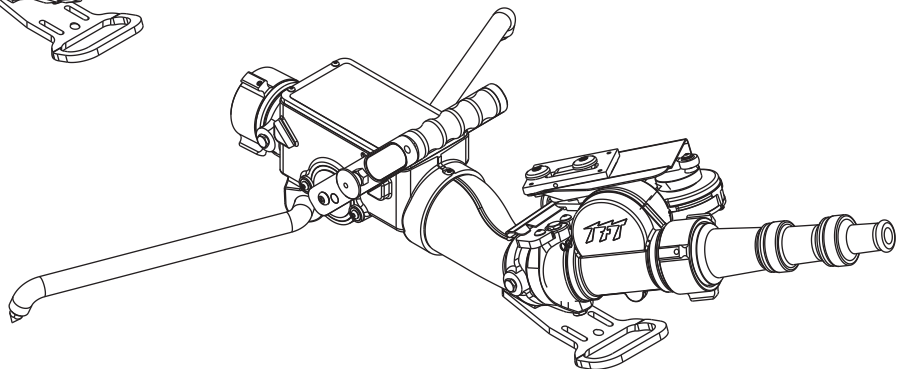
**BLITZFIRE®**



**MAXIMUM OPERATING PRESSURE**  
175 PSI (12 BAR)  
**MAXIMUM FLOW**  
500 GPM (2000 LPM)



**BLITZFIRE OSC®**



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## 1.0 MEANING OF SIGNAL WORDS

A safety related message is identified by a safety alert symbol and a signal word to indicate the level of risk involved with a particular hazard. Per ANSI standard Z535.4-1998 the definitions of the three signal words are as follows:



DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

## 2.0 GENERAL INFORMATION

The Blitzfire is a simple, light and easy to maneuver portable monitor. The monitor has a revolutionary safety shut-off valve, which will shut-off the water flow in the event of sudden movement by the monitor. This safety feature reduces the risk of injury from an out of control master stream device. General product specifications are as follows:

- Standard Inlet Coupling: 2 ½ inch NH Female
- Standard Outlet: 2 ½ inch NH male
- Flow range: up to 500 GPM (2000 LPM)
- Maximum inlet pressure: 175 PSI (12 BAR)
- Elevation angle: 10 to 50 degrees above horizontal
- Horizontal angle: 20 degrees either side of center
- Size, legs folded: 25.5" L x 8.1"W x 10"H (650 x 210 x 260 mm)
- Size, legs unfolded: 26" L x 34" W x 10" H (660 x 1020 x 260 mm)
- Weight: 22 lbs (10 kg)

**⚠️ WARNING**

This equipment is intended for use by trained personnel for firefighting. Its use for other purposes may involve hazards not addressed by this manual. Seek appropriate guidance and training to reduce risk of injury.

**⚠️ WARNING**

An out of control monitor can cause injury or death. To reduce the risk of instability, do not attempt to move the monitor with water flowing.

**⚠️ WARNING**

Interrupting flow to the monitor may cause injury or death. Avoid situations that may interrupt flow to the monitor such as: hose line kinks, traffic running over hose, and automatic doors or devices that can pinch the hose.

**⚠️ CAUTION**

Master streams are powerful and capable of causing injury and property damage. Make sure the monitor is pointing in a safe direction before water to the nozzle is turned on. Use care in directing the stream.

**⚠️ CAUTION**

Monitor must be properly connected to hose and nozzle. Mismatched or damaged threads may cause leaking or uncoupling under pressure and could cause injury.

**⚠️ CAUTION**

Do not couple aluminum to brass. Dissimilar metal coupled together can cause galvanic corrosion that can result in inability to unscrew threads or complete loss of thread engagement over time.

## 2.1 BLITZFIRE PART IDENTIFICATION

Figure 2.1.1 identifies the various parts and controls of the Blitzfire Portable Monitor.

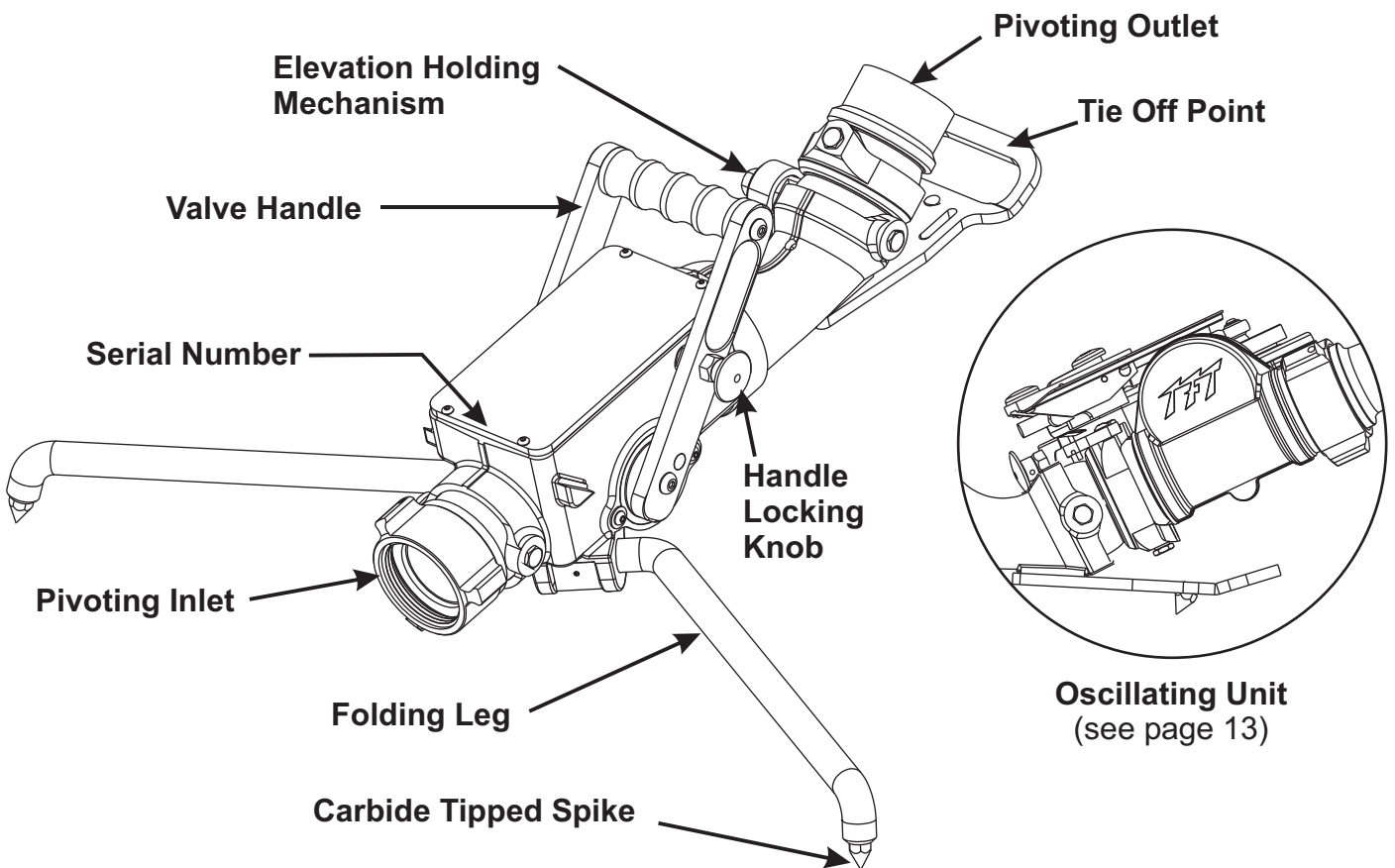


Figure 2.1.1 Blitzfire Parts and Controls

## 2.2 FLOW CONTROL VALVE

The Blitzfire has a valve that can be used to control the flow and acts as a safety shut-off feature. The valve is shut-off when the valve handle is fully forward. The valve is fully on when the valve handle is fully back. The valve can be opened to any of six detented flow positions. These detented positions allow the monitor operator to regulate the flow depending on the need or what can be safely and effectively handled. Figure 2.2 illustrates the positions of the valve handle.

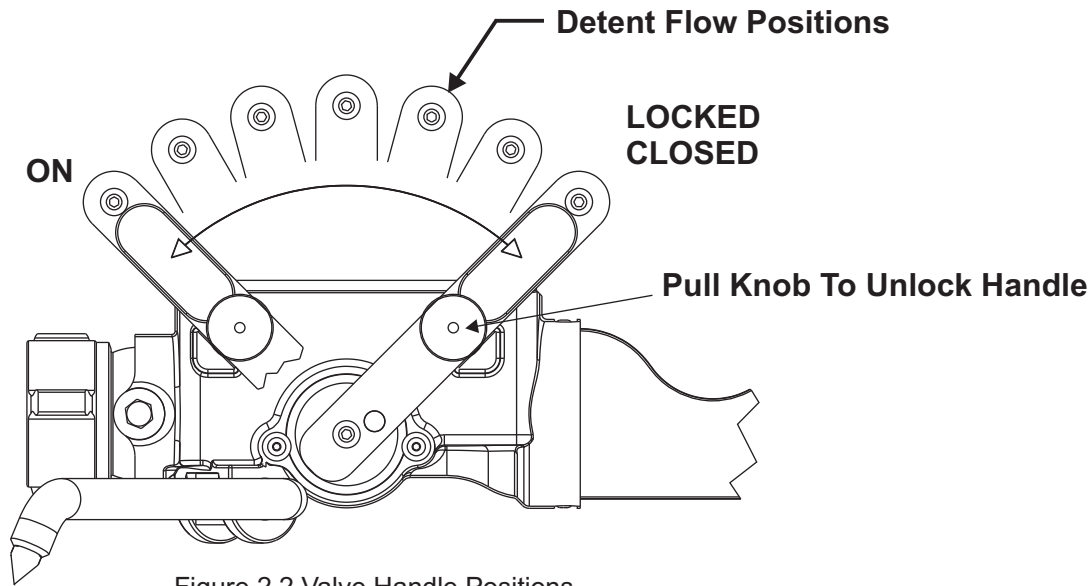


Figure 2.2 Valve Handle Positions

### 2.2.1 UNLOCKING THE VALVE HANDLE FROM THE CLOSED POSITION

The valve handle is locked in the closed position so that the valve handle may be used to carry the Blitzfire without the valve inadvertently opening. To unlock the valve handle from the closed position:

1. Pull knob on right side of valve handle.
2. While pulling on knob, open the valve with other hand.

As soon as valve is opened the knob may be released. Valve handle may be moved to any detent valve position by pushing or pulling on the valve handle. When the valve is closed the valve handle automatically locks and must be unlocked again to reopen. The valve opening procedure is shown in figure 2.2.1.

**BLITZFIRE**  
PERSONAL PORTABLE MONITOR

**LOCKED  
CLOSED**

**OPEN**

**PULL TO  
UNLOCK  
HANDLE**

**OPERATING  
MAXIMUMS**

**FLOW -**  
500 GPM  
2000 L/MN

**PRESSURE -**  
175 PSI / 12  
BAR

**⚠ DANGER**

- Read instruction manual before use. Operation of this device without understanding the manual and receiving proper training is dangerous and is a misuse of this equipment.
- Risk of sliding increases at low elevation angles. To reduce risk of injury or death from sliding, test safety shut-off valve before using.

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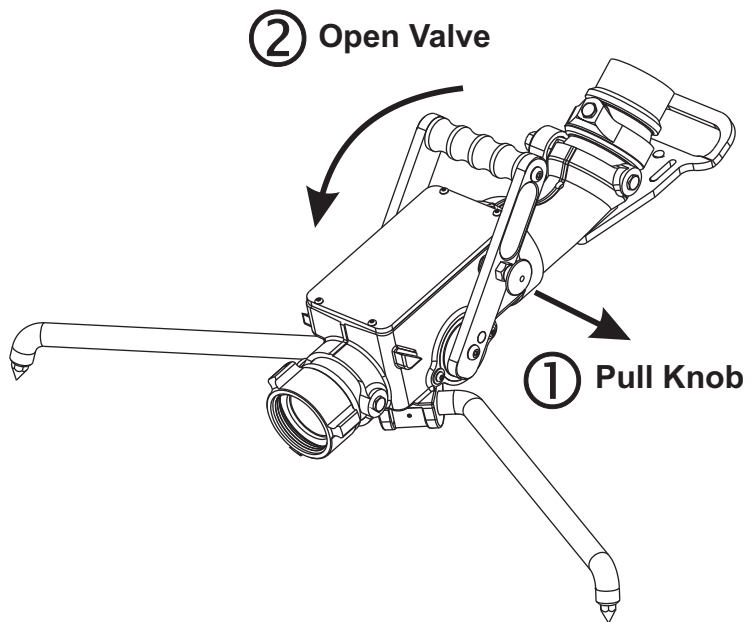


Figure 2.2.1 Valve Opening Procedure

## 2.2.2 SAFETY SHUT-OFF VALVE OPERATION

The Blitzfire is equipped with a Safety Shut-Off Valve. The Safety Shut-Off Valve will shut off the monitor's flow if the monitor starts to move. The Safety Shut-Off Valve relies on acceleration of the Blitzfire as the signal to activate. It activates at approximately one G of sideways acceleration. Placing the Blitzfire on tilted surfaces (greater than 10 degrees) may inhibit the resetting of the Safety Shut-Off Valve. The hose connected to the Blitzfire should contain any forward or backwards motion to safe levels.

**NOTE: To make the Blitzfire not shut off completely, see the card titled "Instructions to Maintain Minimal Water Flow When the Safety Shut-off Activates". (LIX-640)**

Safety shut-off valve operation:

1. Set up monitor and charge the hose.
2. Point the nozzle in the desired direction.
3. Open the valve by pulling the locking pin and pulling back on the valve handle (see section 2.2.1)
4. Place the valve handle in the desired detent position (further back for more flow, further forward for less).
5. If the monitor starts to slide, the safety valve will sense the movement and release the valve.
  - An internal spring and water pressure will move the valve forward to the closed position and shut off the water flow.
  - The valve handle will lock in the closed position.
6. The safety shut-off valve will automatically reset.
7. After the cause of the sliding has been corrected, reopen the valve as outlined in step 3.

**IMPORTANT: Valve must be fully closed to reset the safety shut-off mechanism. Once tripped the valve handle will not stay open unless the mechanism is reset by fully closing the valve.**

If the safety shut-off valve fails to reset, the valve will not remain open. Failure to reset may be due to placing the monitor on an excessively sloped surface.



The safety shut-off valve is only sensitive to sideways acceleration of the monitor. Keep the hose directly behind the monitor to reduce potential acceleration in the forward and backward direction. Do not loop hose in front of monitor.



The safety shut-off valve needs approximately one G of sideways acceleration to activate. At low accelerations the monitor may travel several yards (meters) and gain enough velocity to cause injury before the safety shut-off valve activates. Personnel several feet away and in the potential path of a sliding monitor are at risk of injury. Keep non operating personnel out of the potential path of a sliding monitor.



Improper repairs may result in a malfunctioning safety shut-off valve. If repair is needed on the safety shut-off valve, return the monitor to Task Force Tips.

## 2.2.3 SAFETY SHUT-OFF VALVE TEST



To avoid injury or death, test safety shut-off valve before each use.

With hose uncharged and Blitzfire on a level surface:

1. Open the Valve Handle to the fully open position.
2. Grasp the monitor and give it a sideways jerk or a hit with a gloved fist.
3. The Valve Handle should move to about  $\frac{3}{4}$  closed.

Note: With water flowing the valve has additional forces on it that will close the valve the rest of the way.

If the Safety Shut-Off Valve fails the test, return the monitor to Task Force Tips to restore proper functioning of the safety shut-off valve. If the monitor is used before repair, the user accepts the risk of an out of control monitor.



The safety shut-off valve is intended to shut off the monitor when it moves. It will not prevent it from moving. The device will limit the motion and injury that may occur once the monitor starts to move. Use adequate means to secure the monitor to prevent injury.



Injury or death from an out of control monitor can occur. If monitor gets out of control retreat from monitor immediately. Do not attempt to regain control of monitor while it is flowing.

### The safety shut-off valve may malfunction from:

- Damage to or tampering with valve mechanism
- Lack of maintenance
- Debris becoming stuck while flowing water
- Ice or dirt build-up on valve parts

### To minimize the risk of an out of control monitor:

- Test Safety Shut-Off Valve before each use.
- Tie off the monitor when practical.
- Hook legs on stationary objects such as doorframes, cracks, sign posts etc.
- Keep elevation angle as high as practical.
- Choose surfaces that allow spikes to dig in.
- Assure that the hose is not lifting the spikes off the ground.
- Reduce flow to limit nozzle reaction if stability is questionable.

## 2.2.4 MANUAL OVERRIDE OF SAFETY SHUT-OFF VALVE

On sloping terrain it may be necessary to manually override the Safety Shut-Off Valve. The Safety Shut-Off Valve can be overridden by holding the valve handle in an open position.



**Do not tie or prop open the valve handle. Tampering with the valve handle will render the Safety Shut-Off inoperable and may result in injury or death.**

## 2.2.5 SLOW CLOSE VALVE FEATURE

The Blitzfire has a valve damping mechanism to slow valve closure as it approaches OFF to reduce the effects of water hammer. The damping mechanism has a vane moving in a dampening fluid connected to the valve handle on the left side of the monitor.



**Do not add or change dampening fluid. Improper servicing may result in a malfunctioning safety shut-off valve. If service is needed on the slow close device, contact Task Force Tips service department at 800-348-2686.**

## 2.3 FOLDING LEGS

The Blitzfire has two legs that fold for storage and unfold for operation. The legs are held in the folded and unfolded position by spring detents. To fold or unfold the legs:

1. Grasp the spike end of one leg and pivot it to the folded or unfolded position.
2. Repeat for the other leg.



**In the unfolded position the legs provide a stable base for operation of the monitor. Lack of stability can cause an out of control monitor resulting in injury or death. Do not operate as a portable monitor with either one or both legs in the folded position.**

### 2.3.1 CARBIDE SPIKES

The Blitzfire monitor has 3 tungsten carbide tipped spikes on the legs and the base to resist sliding by digging into the surface the monitor is sitting on. The amount of sliding force these spikes can withstand depends upon the amount of downward and sideways force that is on the monitor and the hardness and texture of the surface the spikes are in contact with. At low elevation angles it is difficult for these spikes to resist sliding. These spikes are essential to safe operation of the monitor and must be in contact with the ground at all times. Set the monitor on an even surface so that all three spikes contact the ground. Replace any spike if the tip diameter exceeds 1/16 inch (1.6 mm). Order replacement spike kit: XX482-KIT.



**For stable operation the three spikes must maintain in contact with the ground. Do not place the Blitzfire on top of debris, objects, or uneven terrain that would keep any of the spikes from contacting the ground.**



**On hard slippery surfaces the spikes may provide little resistance to sliding. In these cases the monitor should be tied off or the legs hooked on stationary objects to keep the monitor in position. Also, a person's weight applied to the monitor may help increase resistance to sliding.**



**Spikes must be sharp to provide resistance to sliding. Replace any spike if the tip diameter exceeds 1/16 inch (1.6 mm).**



**Spikes are sharp and exposed. Use care around spikes to avoid injury and damage to clothing or other property.**

## 2.4 PIVOTING INLET

The Blitzfire has a pivoting inlet so that different size hoses can be used without lifting the spikes off the ground. The pivoting inlet also allows the monitor to be stably positioned on porches, stair landings, and the like. The pivot moves up and down 20 degrees. The Blitzfire is equipped with three spikes to provide traction when flowing from the ground. For the spikes to provide traction they must remain in contact with the ground. Assume that the hose is not on top of anything that would cause the spikes to lift off the ground. Figure 2.5 shows the inlet pivot's range of motion.

## 2.5 OUTLET PIVOTS

The Blitzfire's outlet pivots allow for 20 degrees of motion either side of center and elevation between 10 and 50 degrees from horizontal. Push or pull on the nozzle to redirect the stream. The pivots are easy to reposition under pressure and are good for rapid redirecting of the stream. However, if the pivot is rapidly bumped against its travel limit, the Safety Shut-Off Valve may activate and shut off the monitor. Figure 2.5 shows the outlet pivots range of motion.

The Blitzfire has been designed to operate at very low elevation angles to maximize usefulness for interior attack. As with any monitor, when the elevation angle is low the risk of sliding is increased. This is because at low elevation angles the reaction force is more horizontal and less vertical.

### Elevation drag adjusting nut.

Tighten to increase drag. Loosen to decrease drag. Do not exceed 200 in-lb (22 N-M) of holding torque.

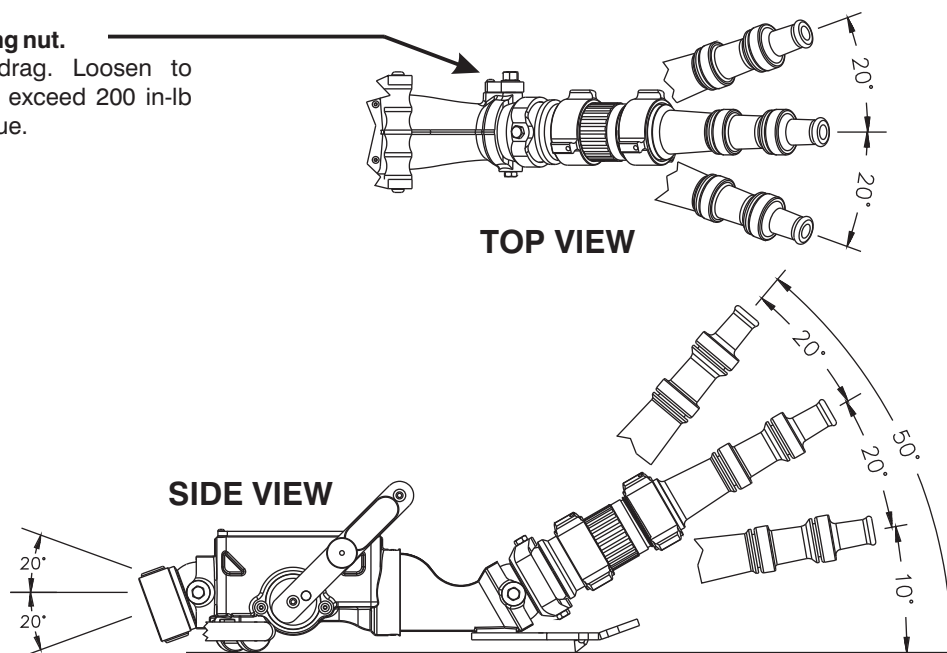


Figure 2.5 Inlet and Outlet pivots Range of Motion

### 2.5.1 ELEVATION HOLDING MECHANISM

The elevation pivot has a mechanism to support the weight of a nozzle. It is factory set to support the weight of nozzles likely to be used. It may be adjusted (see figure 2.5). The mechanism releases when raising the nozzle so upwards drag from the mechanism is not felt. Avoid the use of long stream straighteners or heavy nozzles which may overcome the holding torque of the elevation mechanism.

## 3.0 FLOWS AND PRESSURES

The Blitzfire Portable Monitor is designed for maximum flows of 500 GPM (2000 LPM) and a maximum pressure of 175 PSI (12 BAR). Do not exceed these limits.



**An inadequate supply of pressure and/or flow will cause an ineffective stream and can result in injury, death or loss of property.**

### 3.1 AUTOMATIC, FIXED, AND SELECTABLE FLOW NOZZLES

A variety of water or foam nozzles may be used with the Blitzfire.

Automatic nozzles maintain a constant pressure by adjusting their opening to match the available flow. Consult the nozzle manufacturer for maximum flow and pressure ratings. In all cases do not exceed 500 GPM (2000 LPM) and/or 175 PSI (12 BAR).

### 3.2 STACKED TIPS OR SMOOTHBORE NOZZLES

NOZZLE DIAMETER	NOZZLE INLET PRESSURE									
	50 PSI		80 PSI		100 PSI		150 PSI		175 PSI	
	FLOW (GPM)	REACTION (LBS)	FLOW (GPM)	REACTION (LBS)	FLOW (GPM)	REACTION (LBS)	FLOW (GPM)	REACTION (LBS)	FLOW (GPM)	REACTION (LBS)
1.0 INCH	210	80	270	120	300	150	360	230	390	260
1-1/4 INCH	330	120	410	190	460	230	—	—	—	—
1-1/2 INCH	470	170	—	—	—	—	—	—	—	—

NOZZLE DIAMETER	NOZZLE INLET PRESSURE									
	4 BAR		6 BAR		8 BAR		10 BAR		12 BAR	
	FLOW (L/min)	REACTION (KG)	FLOW (L/min)	REACTION (KG)	FLOW (L/min)	REACTION (KG)	FLOW (L/min)	REACTION (KG)	FLOW (L/min)	REACTION (KG)
25 MM	830	40	1000	60	1200	80	1300	100	1400	120
32 MM	1300	70	1700	100	1900	130	—	—	—	—
38 MM	1900	90	—	—	—	—	—	—	—	—

**FLOW EXCEEDS RATING OF BLITZFIRE MONITOR**

### 3.3 STREAM STRAIGHTENERS

Stream quality, especially with smooth bore nozzles, is generally improved with the use of a stream straightener.

### 3.4 USE WITH FOAM

The Blitzfire may be used with various foam nozzles and foam solutions. Refer to fire service training for the proper use of foam.

### 3.5 USE WITH SALT WATER

Use with salt water is permissible provided the monitor is thoroughly cleaned with fresh water after each use. The service life of the monitor may be shortened due to the effects of corrosion and is not covered under warranty.

### 3.6 BLITZFIRE PRESSURE LOSS

Figure 3.6 gives the pressure loss for the Blitzfire Portable Monitor

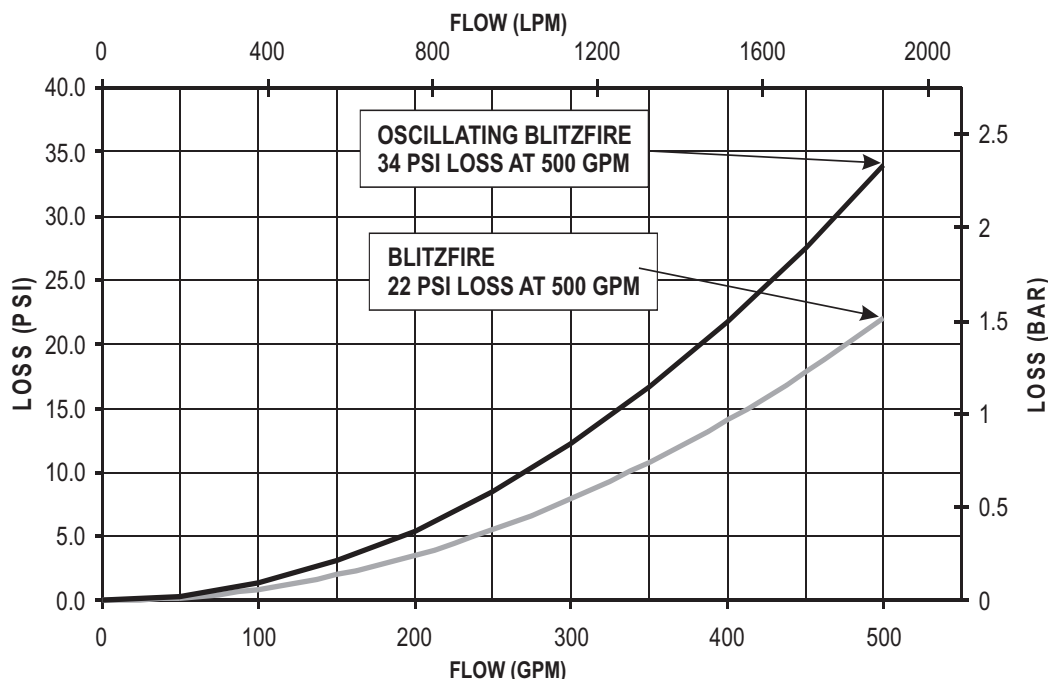


Figure 3.6 Blitzfire Pressure Loss



## 4.0 DEPLOYMENT OF BLITZFIRE

It is the responsibility of the individual fire department or agency to determine physical capabilities and suitability for an individual's use of this equipment.

### 4.1 CARRYING WITH AN UNCHARGED HOSE

On a preconnected hoseline the Blitzfire may be carried over the shoulder with the legs folded as illustrated in figure 4.1.



Figure 4.1 Carrying the Blitzfire on an Uncharged Hose

### 4.2 ADVANCING WITH A CHARGED HOSE

On a charged hose the Blitzfire may be advanced by holding the valve handle and one of the legs as shown in figure 4.2. Valve handle should be locked in the closed position to keep the valve from inadvertently opening.

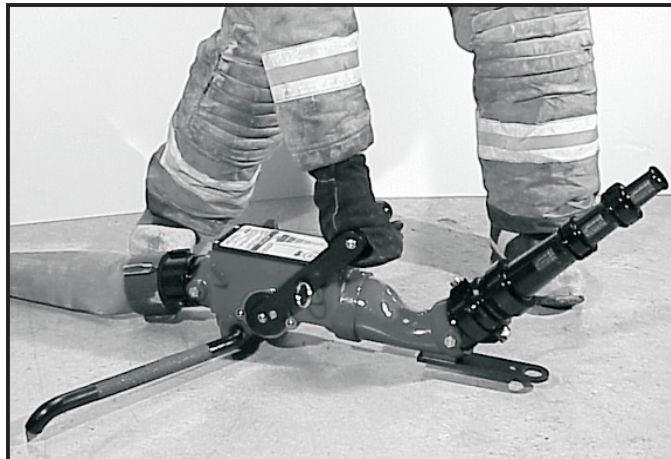


Figure 4.2 Advancing the Blitzfire with a Charged Hose

## 5.0 ANCHORING

The nozzle reaction force on the Blitzfire may be as high as 330 lbs - 500 GPM at 175 PSI (150 kg- 2000 LPM at 12 BAR). This nozzle reaction must be restrained to keep the monitor from moving.

The monitor should be anchored from moving by one or more of these methods:

METHOD	RISK of MOVING
Anchoring by Weight	High
Anchoring by Spike Holds	Medium
Hooking legs on vertical surfaces	Medium
Using a tie off strap	Low

## 5.1 ANCHORING BY WEIGHT

On surfaces with good traction a person's weight on the monitor and/or hose may be sufficient to keep the monitor from moving. This is highly dependant on the friction of the surface. The ability to keep one or more than one person's weight on the monitor is subject to operator fatigue and may not be as reliable as other methods. Operating at limited flows will reduce the risk.

## 5.2 ANCHORING BY SPIKE HOLDS

Anchoring by spike holds is defined as intentionally placing one or more spikes into a crack, hole, or other hold to anchor the monitor from moving. On hard smooth surfaces such as ceramic tile, smooth concrete, marble, terrazzo, or steel decking the Blitzfire's spikes may not hold well. Placing the spikes into cracks, expansion joints, or gratings or the like will help hold the monitor from sliding. Even with the spikes anchored, sliding may be caused by the surface cracking under the load, or from the hose or nozzle moving the monitor thereby dislodging the spikes from their hold. Figure 4.3.1 shows a close up of a spike caught in a crack.

The holding ability of the spikes on soft surfaces such as sand, gravel and mud is generally poor, therefore other anchoring methods should be considered.

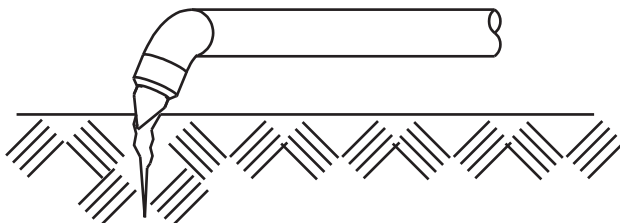
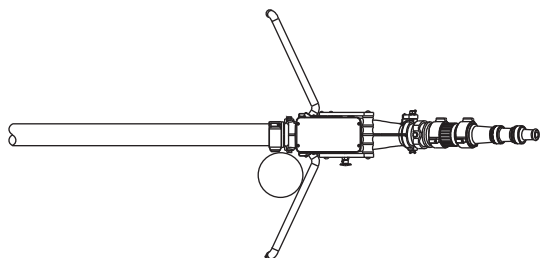


Figure 4.3.1 Spike Caught in a Crack

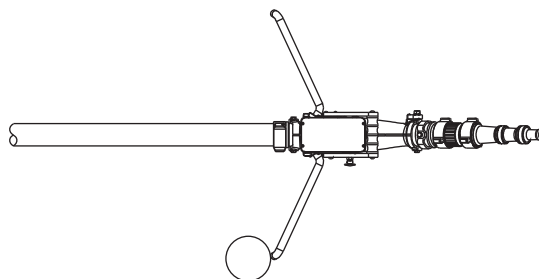
## 5.3 ANCHORING BY HOOKING LEGS

The legs on the Blitzfire point back slightly so they can act as a hook for anchoring on posts, walls, door frames or other fixed objects. Sliding can occur if the legs are unhooked due to the influence of the hose, nozzle, or operator. See figure 4.3.2 for illustrations of hooking the legs.



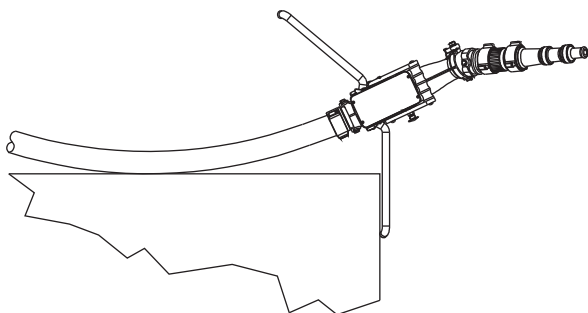
**Good**

Nozzle reaction keeps leg hooked.  
Object is close to hose.



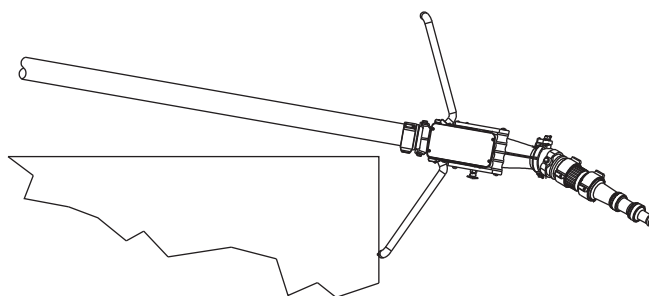
**Poor**

Nozzle reaction tends to unhook leg.



**Good**

Nozzle reaction keeps leg hooked.  
Hose hits wall and helps hold position.



**Poor**

Nozzle reaction tends to unhook leg.

Figure 4.3.2 Hooking Legs to Gain Support

## 5.4 ANCHORING BY TYING OFF

The safest method of restraining the monitor is to use a tie down strap. It is inherently more reliable than other methods since it does not rely on traction or digging in of the spikes. It is also the safest method because, even if the monitor moves, its travel is limited by the strap. A forward attachment point and a strap are provided with the Blitzfire. A loop on the end of the strap may be placed over the anchor point or the strap may be wrapped around an object, such as a tree, and the snap end of the strap passed through the loop and pulled tight. Keep the entire length of the strap as close to the ground as possible. Snap the hook into the hole in the front of the Blitzfire. The length of the strap may be adjusted by sliding the buckle on the strap. If the strap is too short to reach a suitable anchor, it may be extended with strong rope or chain. Keep the distance between the Blitzfire and anchor as short as possible. Remove all slack between the Blitzfire and anchor before flowing water. Figure 4.3.3 shows the elements of tying off the monitor.

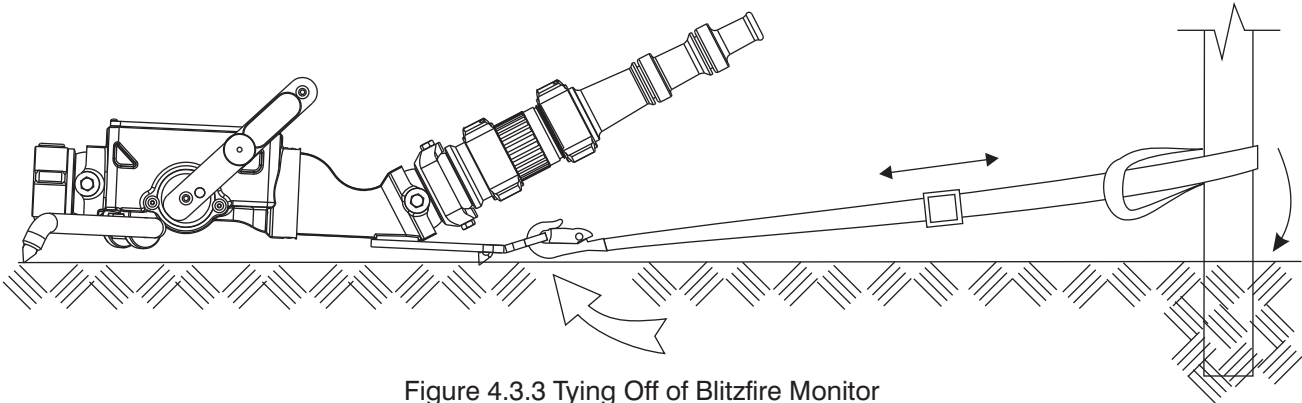


Figure 4.3.3 Tying Off of Blitzfire Monitor

## 6.0 OSC OSCILLATING UNIT

An automatic oscillating mechanism is available for the Blitzfire Monitor. The Blitzfire Monitor can be purchased with the oscillating mechanism factory installed or added at the factory later.

### 6.1 SAFETY - OSCILLATOR

#### **⚠ DANGER**

Do not attempt to modify this oscillating mechanism to fit any other monitor. To do so will cause the reaction force of the nozzle to be unaligned with the center of rotation. The monitor may spin very fast with a very high force.

#### **⚠ WARNING**

Keep hands and fingers away from the moving parts of the oscillating unit when water is flowing. There are moving parts that can pinch fingers and hands. Keep the guard in place.

#### **⚠ WARNING**

Make sure the Blitzfire is on a firm surface with adequate holding power. As the nozzle goes back and forth, the reaction force is acting in different directions on the leg spikes. Surfaces such as asphalt, turf and dirt generally have good holding power. Surfaces like concrete and loose gravel hold poorly.

#### **⚠ CAUTION**

Because the nozzle attached to the Blitzfire must slow down, stop and reverse direction at the end of each sweep, the ends of the covered area will receive more water than the center. If the center area of coverage needs the most cooling, occasionally narrow the area of coverage or use the oscillator manually.

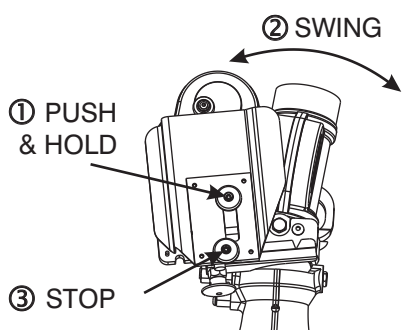
### 6.2 GENERAL - OSCILLATOR

The Blitzfire oscillating mechanism can be used for exposure protection, cooling, or any other situation where it is desirable to have a monitor sweep back and forth. Like the standard Blitzfire, the oscillator operates between 10 and 50 degrees above the horizontal and 20 degrees either side of center. Flow and pressure ratings are the same as the standard Blitzfire. The oscillating Blitzfire also has the same trip mechanism as the standard unit.

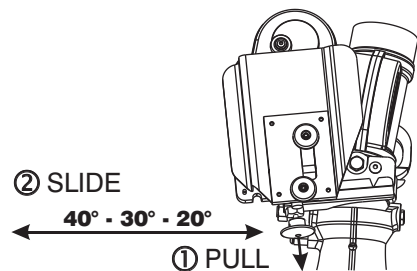
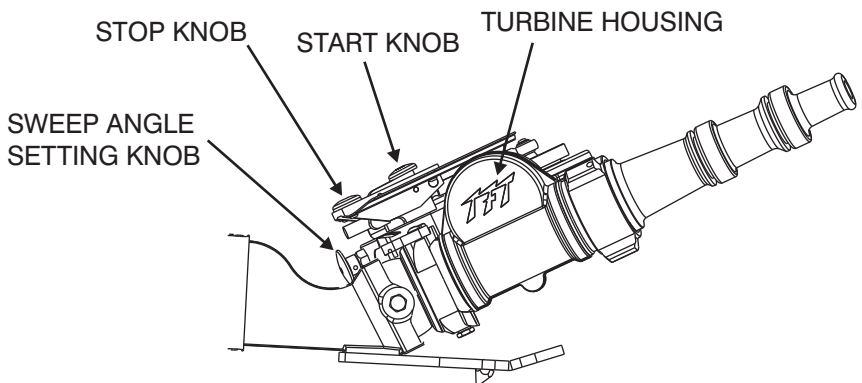
The oscillating mechanism is driven by a turbine wheel. A worm gear drive reduces the speed and increases the torque of the turbine wheel. A simple crank mechanism makes the outlet of the Blitzfire and the nozzle attached to it move back and forth. The horizontal sweep can be set for a 20, 30 and 40 degree sweep. The oscillating mechanism can be uncoupled and the water stream can be aimed manually. Elevation angle is set the same as the standard Blitzfire.

The speed of oscillation is a function of flow rate, see the Blitzfire Oscillation Speed graph on page 14.

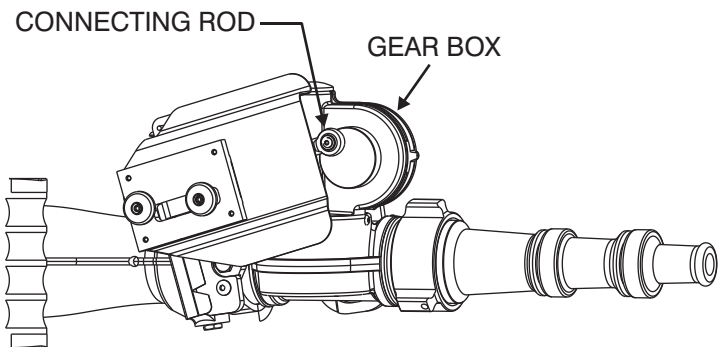
### 6.3 CONTROL IDENTIFICATION - OSCILLATOR



**OSCILLATION CONTROL**



**SWEEP ANGLE CHANGE**



### 6.4 USE - OSCILLATOR

Deploy the Oscillation Blitzfire as you would the standard Blitzfire, see section 4.0. Align the base of the Blitzfire with the center of the area you wish to cover

**To Engage The Oscillating Mechanism:** If the nozzle moves freely left to right by hand, the oscillating mechanism is not engaged. Depress the green START KNOB and move the nozzle from one side to the other until the roll pin drops in the groove in the connecting rod. Open the valve on the Blitzfire and adjust the elevation to hit the desired spot. The minimum flow is 175 GPM (650 L/min). To adjust the area of coverage, pull the silver knob and move it left or right until the pointer aligns with the desired angle of coverage.

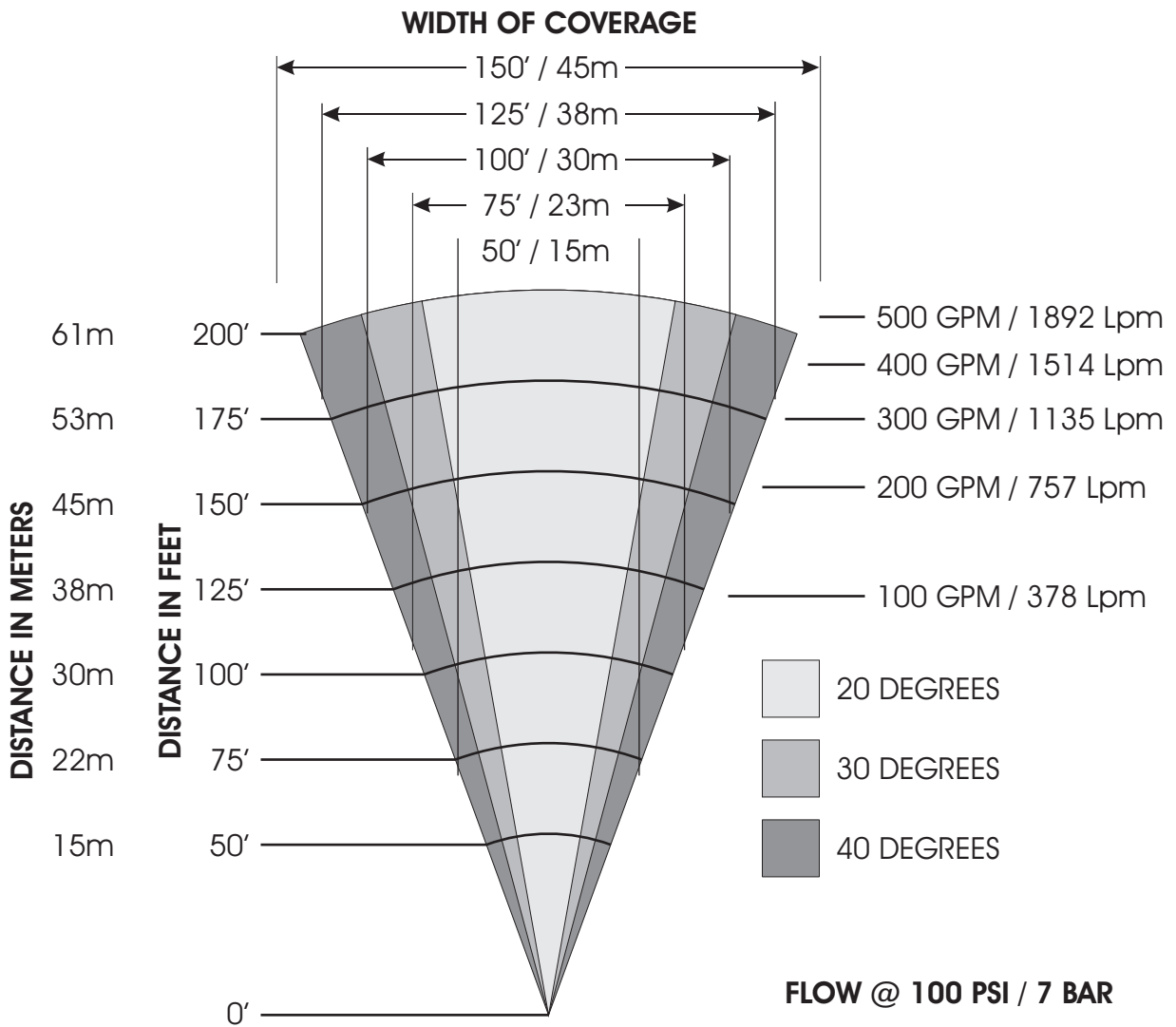
**To Disengage The Oscillating Mechanism:** To operate the oscillating Blitzfire Manually, depress the Red STOP KNOB and move the Nozzle to the desired position by hand. The green START KNOB will pop up to indicate the mechanism is disengaged. The crank and connecting rod will continue to move.

To protect the gears from overload, the oscillating mechanism will disengage if sufficient force is applied to either side of the oscillator outlet. The green START KNOB will pop up to indicate the mechanism is disengaged. See the instructions above to engage the drive mechanism.

Oscillation speed: The chart shows how many times per minute the oscillator makes one complete cycle as a function of flow. The higher the flow, the faster it oscillates.

APPROXIMATE CYCLES/MIN	GPM	L/MIN
8	175	650
13	250	1000
21	375	1500
28	500	2000

**BLITZFIRE OSCILLATION SPEED**



**COVERAGE AREA OF BLITZFIRE OSCILLATING UNIT**

**7.0 STORAGE**

The monitor may be stored pre-connected to its hose on the optional storage bracket, TFT part number XX-B. The storage bracket may be mounted on a horizontal surface, or a vertical surface with the nozzle end pointing up or sideways. Mounting instructions are included with the bracket.

## 8.0 MAINTENANCE

The Blitzfire monitor requires little maintenance. The unit should be kept clean and free of dirt by rinsing with water after each use. Any inoperable or damaged part should be repaired or replaced.



**Any alterations to the Blitzfire and its markings could diminish safety and constitutes a misuse of this product.**

### MAINTENANCE CHECK LIST:

- Safety shut-off valve is operational (see section 2.2.3)
- Valve label legible
- Legs pivot freely and detents hold folded or unfolded position
- Spikes are sharp. Replace if tip diameter exceeds 1/16 inch (1.6 mm).
- Inlet coupling rotates freely
- Inlet pivots freely up and down
- Pull pin for Valve Handle locking locks and releases easily
- Valve Handle moves smoothly without binding
- Valve Handle stays in detent positions
- Outlet pivots freely from side to side
- Outlet pivots freely upward
- Outlet pivot has sufficient drag to support weight of nozzle
- Tie down strap is in good condition; no frays on strap or damage to hook

## 9.0 WARRANTY

Task Force Tips, Inc., 2800 East Evans Avenue, Valparaiso, Indiana 46383 (“TFT”) warrants to the original purchaser of its Blitzfire Monitor (“equipment”), and to anyone to whom it is transferred, that the equipment shall be free from defects in material and workmanship during the five (5) year period from the date of purchase.

TFT’s obligation under this warranty is specifically limited to replacing or repairing the equipment (or its parts) which are shown by TFT’s examination to be in a defective condition attributable to TFT. To qualify for this limited warranty, the claimant must return the equipment to TFT, at 2800 East Evans Avenue, Valparaiso, Indiana 46383, within a reasonable time after discovery of the defect. TFT will examine the equipment. If TFT determines that there is a defect attributable to it, it will correct the problem within a reasonable time. If the equipment is covered by this limited warranty, TFT will assume the expenses of repair.

If any defect attributable to TFT under this limited warranty cannot be reasonably cured by repair or replacement, TFT may elect to refund the purchase price of the equipment, less reasonable depreciation, in complete discharge of its obligations under this limited warranty. If TFT makes this election, claimant shall return the equipment to TFT free and clear of any liens and encumbrances.

This is a limited warranty. The original purchaser of the equipment, any person to whom it is transferred, and any person who is an intended or unintended beneficiary of the equipment, shall not be entitled to recover from TFT any consequential or incidental damages for injury to person and/or property resulting from any defective equipment manufactured or assembled by TFT. It is agreed and understood that the price stated for the equipment is in part consideration for limiting TFT’s liability. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above may not apply to you.

TFT shall have no obligation under this limited warranty if the equipment is, or has been, misused or neglected (including failure to provide reasonable maintenance) or if there have been accidents to the equipment or if it has been repaired or altered by someone else.

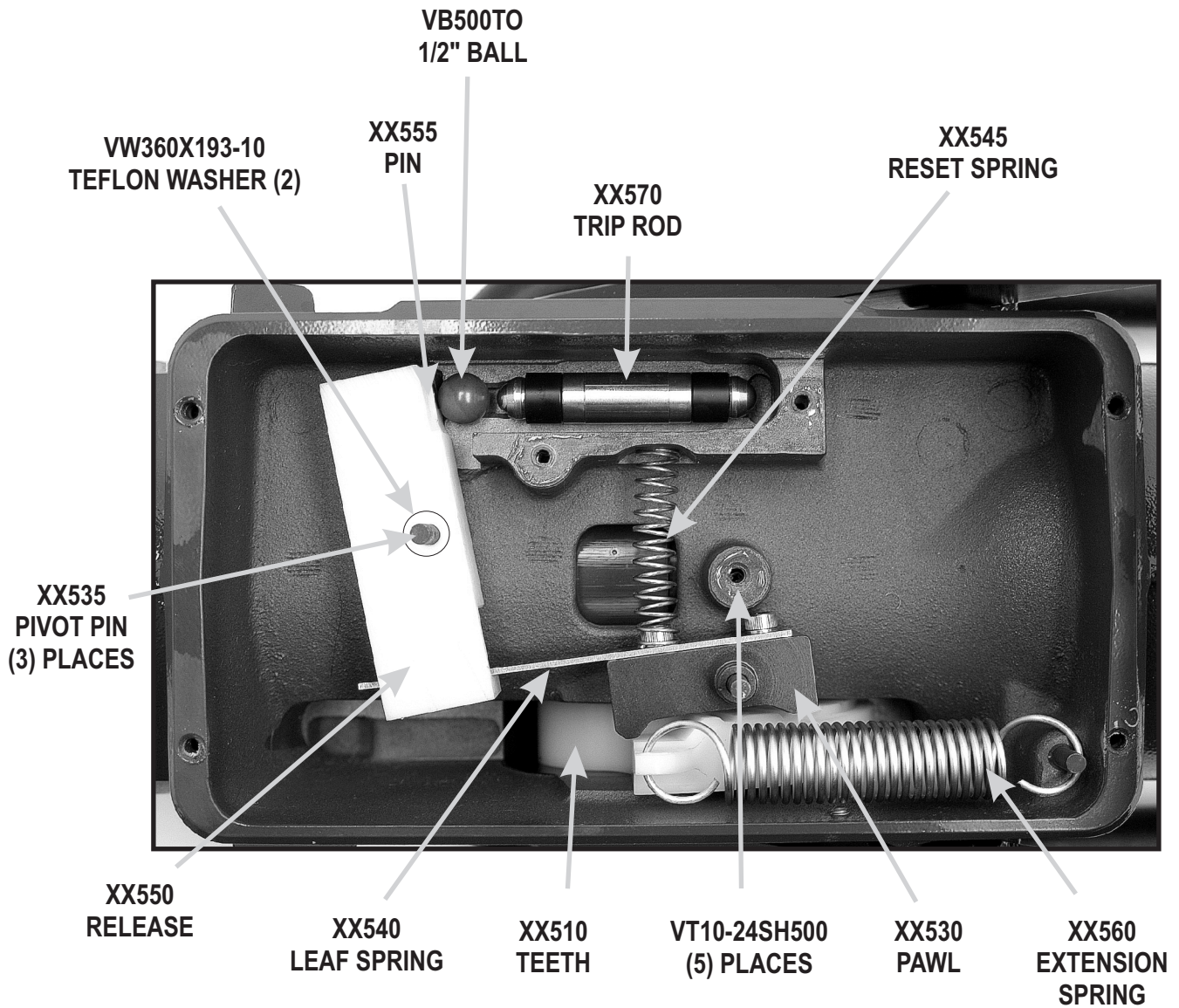
**THIS IS A LIMITED EXPRESS WARRANTY ONLY. TFT EXPRESSLY DISCLAIMS WITH RESPECT TO THE EQUIPMENT ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE. THERE IS NO WARRANTY OF ANY NATURE MADE BY TFT BEYOND THAT STATED IN THE DOCUMENT.**

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

***Visit TFT's web site at [www.tft.com](http://www.tft.com)***

## 10.0 EXPLODED VIEWS AND PARTS LISTS

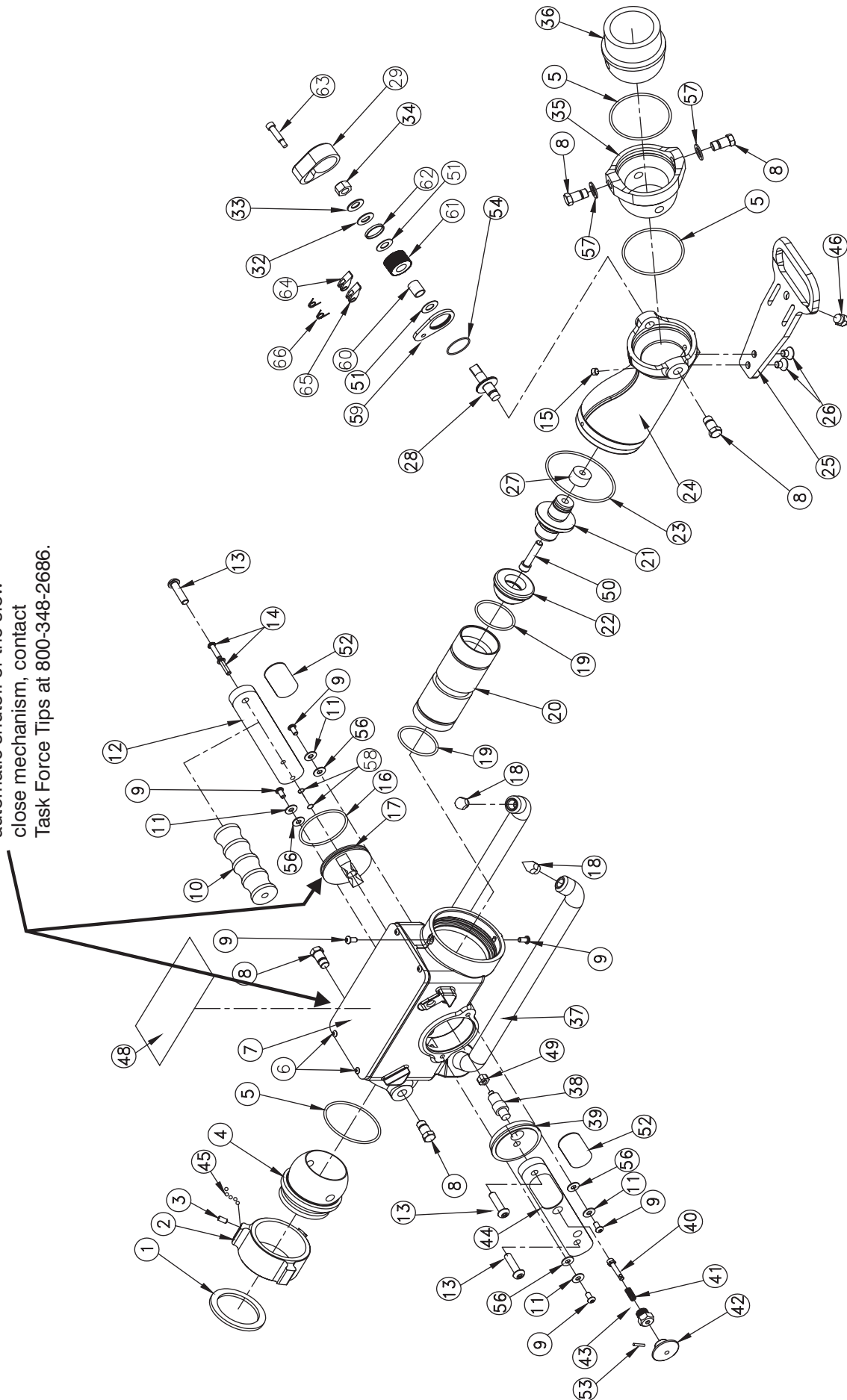
### 10.1 SAFETY MECHANISM ASSEMBLY VIEW



NOT SHOWN: XX520 RETAINER PLATE  
VP188X.38HDP SPIRAL PIN

# 10.2 BLITZFIRE MONITOR EXPLODED VIEW

For repair information on the automatic shutoff or the slow close mechanism, contact Task Force Tips at 800-348-2686.



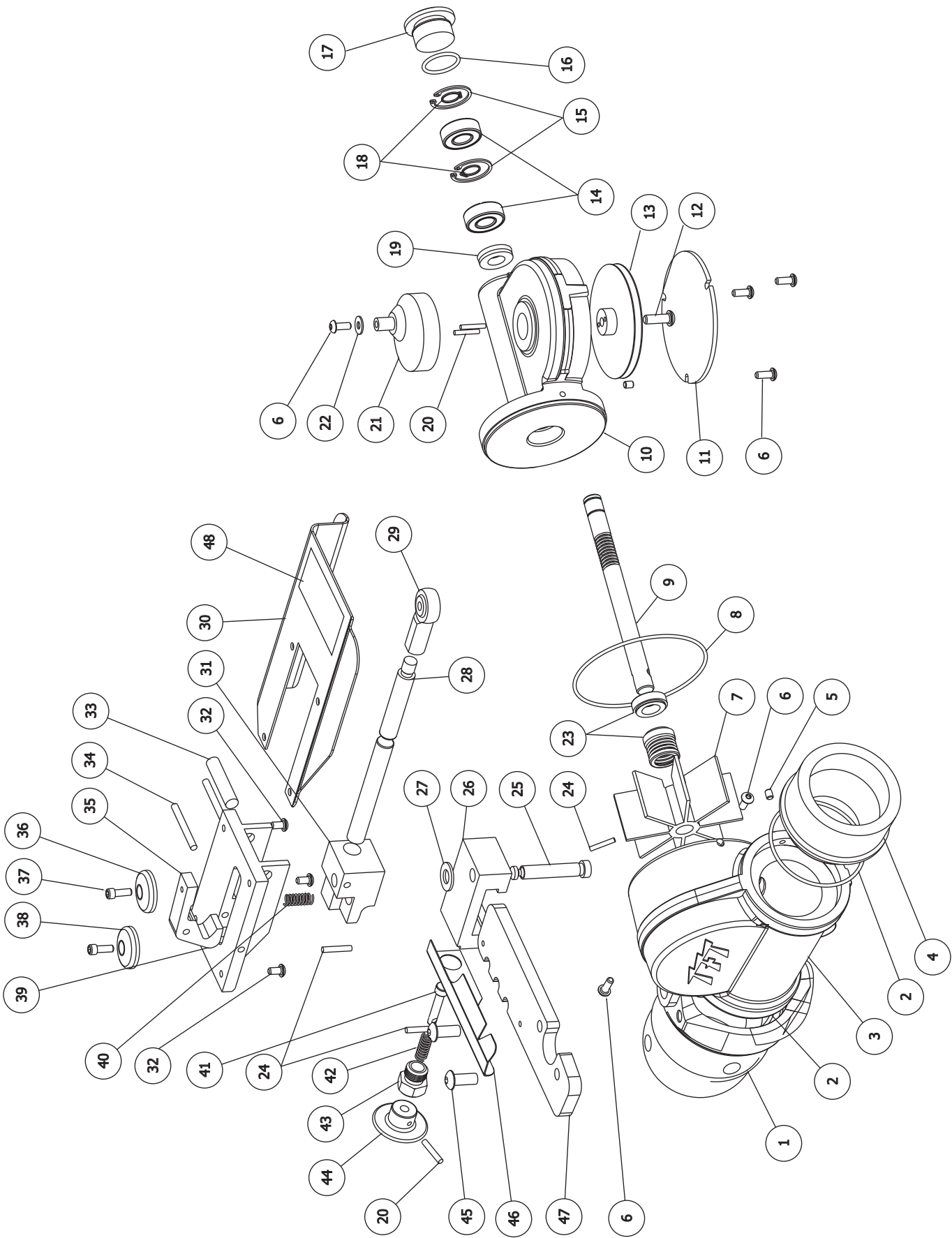


## 10.2 PARTS LIST BLITZFIRE MONITOR

#	DESCRIPTION	QTY	PART #	#	DESCRIPTION	QTY	PART #
1	2.5 INCH COUPLING GASKET	1	V3190	34	1/2-20 HEX NUT	1	VT50-20NT
2*	2.5 NH COUPLING ROCKERLUG	1	M307N	35	EXIT SEGMENT	1	XX305
3	1/4-28 X 1/2 SOCKET SET SCREW	1	VT25-28SS500	36	EXIT 2.5"	1	XX310*
4	INLET SWIVEL	1	XX605	37	BASE/LEG ASSEMBLY	1	XX915
5	O-RING-235	3	VO-235	38	CAM PIN	1	XX610
6	10-24 1/2 BUTTON HEAD SCREW	4	VT10-24BH500	39	DISK	1	XX640
7	COVER PLATE	1	XX205	40	PULL PIN	1	XX343
8	SWIVEL TRUNNION	5	XX320	41	PULL PIN SPRING	1	X345
9	1/4-28 X 1/2 BUTTON HEAD SCREW	6	VT25-28BH500	42	PULL KNOB	1	XX341
10	HANDLE TOP	1	XX625	43	PULL PIN HOUSING	1	XX355
11	STAINLESS WASHER 1/4"	4	VW687X281-50	44	RIGHT HANDLE	1	XX620
12	LEFT HANDLE	1	XX621	45	3/16" SS BALL	48	V2120
13	3/8-16 X 1.5 BUTTON HEAD SCREW	3	VT37-16BH1.5	46	SPIKE	1	X480
14	1/4-20 X 1.0 BUTTON HEAD SCREW	2	VT25-20BH1.0	48	INSTRUCTION LABEL	1	XL670
15	1/8 NPT PLUG	1	VFSP1M S	49	SQUARE BUSHING	1	XX630
16	QUAD RING 4231	1	VOQ-4231	50	3/8-24 X 1.75 SOCKET HEAD CAP SCREW	1	VT37-24SH175
17	DRAG DISK	1	XX645	51	FLAT WASHER - PHENOLIC	2	VW1.0X50-03
18	REAR SPIKE	2	X482	52	HANDLE LABEL	2	XL620
19	QUADRING-227	2	VOQ-4227	53	PIN 1/8 X 3/4	1	VP125X750H
20	SLIDER	1	XX660	54	O-RING -027	1	VO-027
21	PLUG SUPPORT	1	XX594	56	NYLON WASHER .878 O.D.	2	VW878X253-62
22	VALVE PLUG	1	XX590	57	WAVE SPRING WASHER .74 O.D.	2	VW740X550-16
23	O-RING-241	1	VO-241	58	O-RING -109	2	VO-109
24	OUTLET	1	XX420	59	CLUTCH BASE	1	XX336
25	FRONT LEG	1	XX460	60	NYLON BUSHING	1	XX334
26	3/8-16 X 1/2 FLAT HEAD SOCKET SCREW	2	VT37-16FH500	61	RATCHET	1	XX333
27	LOCKING SLEEVE	1	XX571	62	DIRT SEAL	1	XX339
28	CLUTCH TRUNION	1	XX325	63	5/16 X 1 SOCKET HEAD SHOULDER	1	VT31-00SB1.0
29	CLUTCH HOUSING	1	XX337	64	PAWL 40 DEGREE	1	XX331
32	D-WASHER	1	XX350	65	PAWL 37 1/2 DEGREE	1	XX332
33	BELLEVILLE WASHER	1	VW1.0X512-BV	66	TORSION SPRING	2	XX338

\* Consult Factory For Special Threads.

### 10.3 OSCILLATOR EXPLODED VIEW



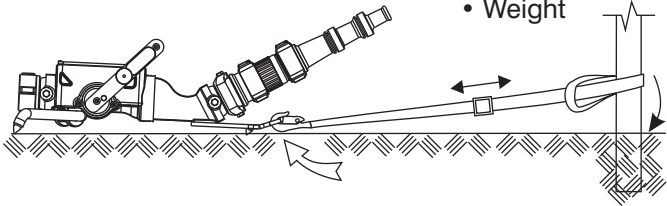
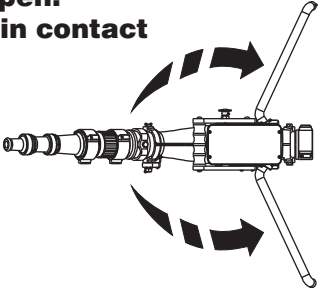
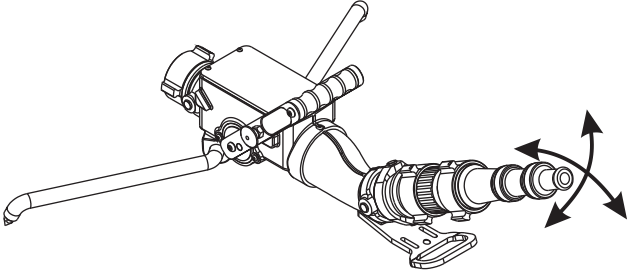
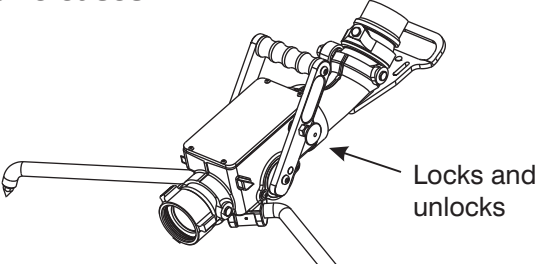
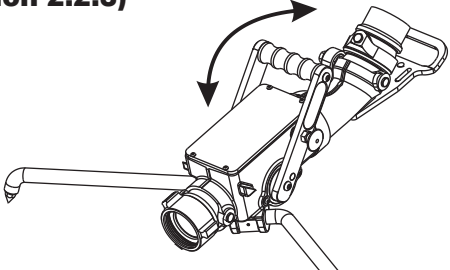
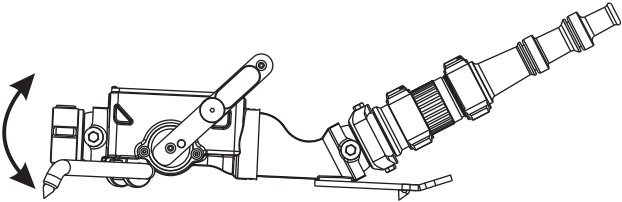
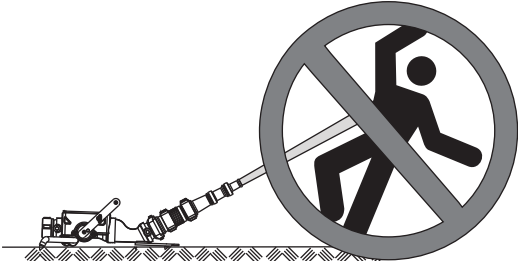
### 10.3 PARTS LIST OSCILLATOR

#	DESCRIPTION	QTY	PART #	#	DESCRIPTION	QTY	PART #
1	INLET BALL HARDCOAT	1	XX015	23	TURBINE SEAL	1	XX032
2	147 O-RING	2	VO-147	24	5/32 X 7/8 HDP SPIROL PIN #12437	3	V1900
3	WATERWAY DK BLUE POWDERCOAT	1	XX010	25	SLIDE PIVOT MACHINED	1	XX067
4	EXIT 2.5"* -HARDCOAT	1	XX020 *	26	ARM SLIDE HARDCOAT	1	XX065
5	10-32 X 1/4 SOCKET SET SCREW STAINLESS	2	VT10-32SS250	27	WASHER	1	VW812X406-65
6	10-32 X 1/2 BUTTON HEAD SCREW STAINLESS	6	VT10E32BH500	28	LINK MACHINED	1	XX055
7	TURBINE VANES HARDCOAT	1	XX025	29	ROD END	1	XX056
8	153 O-RING	1	VO-153	30	GUARD	1	XX077
9	WORM AND SHAFT	1	XX030	31	LINK SLIDE HARDCOAT	1	XX066
10	GEAR BOX DK BLUE POWDERCOAT	1	XX005	32	10-32 X 3/8 BUTTON HEAD CAP SCREW	4	VT10-32BH375
11	COVER	1	XX045	33	3/8 X 1-3/4 STAINLESS PIN	1	XX081
12	1/4-20 X 7/8 STAINLESS SOCKET CAP SCREW	1	VT25-20SH875	34	3/16 X 1-3/4 STAINLESS PIN	2	XX080
13	WORM GEAR	1	XX040	35	LINK TRIGGER MACHINED	1	XX075
14	WORM SHAFT BEARING	2	XX035	36	PALM BUTTON GREEN	1	XX072-GRN
15	SNAP RING 1-1/8 INTERNAL X .05	2	VR4255	37	10-32 X 1/2 SOCKET HEAD CAP SCREW	2	VT10-32SH500
16	119 O-RING	1	VO-119	38	PALM BUTTON RED	1	XX072-RED
17	SHAFT CAP	1	XX037	39	LINK RELEASE	1	XX070
18	SNAP RING 1/2" EXTERNAL X .035	2	VR4250	40	RELEASE SPRING	1	XX071
19	CUP SEAL 1 OD X .5 ID X 1/4 WIDE BUNA N	1	XX033	41	PULL PIN	1	XX340
20	1/8 X 3/4 SPIROL PIN	3	VP125X750H	42	PULL PIN SPRING	1	XX342
21	CRANK HARDCOAT	1	XX050	43	PULL PIN HOUSING	1	X350
22	#10 WASHER	1	VW500X203-60	44	PULL KNOB	1	XX341
				45	5/16-18 X 5/8 BUTTON HEAD CAP SCREW	2	VT31-18BH625
				46	INDICATOR	1	XX068
				47	ARM	1	XX060
				48	NAME LABEL - OSCILLATOR	1	XL610

\* Consult Factory For Special Threads.

# 11.0 OPERATION CHECKLIST

Monitor must be inspected for proper operation and function according to this checklist before each use. Before flowing water check:

<p><b>1) There is no obvious damage such as missing, broken or loose parts.</b>  <b>2) Hose and nozzle are securely attached.</b></p>	<p><b>7) Monitor is anchored:</b></p> <ul style="list-style-type: none"> <li>• Tied off</li> <li>• Hooked leg</li> <li>• Spike hold</li> <li>• Weight</li> </ul> 
<p><b>3) Both legs are fully open.</b>  <b>4) All three spikes are in contact with the ground.</b></p> 	<p><b>8) Outlet pivots smoothly in all directions.</b></p> 
<p><b>5) Valve handle locks when closed and releases.</b></p>  <p style="text-align: right;">Locks and unlocks</p>	<p><b>9) Safety Shut-Off valve is operational. (see section 2.2.3)</b></p> 
<p><b>6) Inlet pivots freely.</b></p> 	<p><b>10) Monitor is pointed in a safe direction.</b></p> 

**⚠ WARNING**

Any Blitzfire monitor failing any part of the inspection checklist is unsafe and must have the problem corrected before use. Operating a Blitzfire that fails any of the above inspections is a misuse of this equipment.