



**PepperBall®**  
*SAFER OPTIONS*

# TAC-SF™

TACTICAL SELECT FIRE

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User Manual

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**PepperBall®**

# TAC-SF™

TACTICAL SELECT FIRE

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## **WARNING**

THIS LAUNCHER IS NOT A TOY AND IS INTENDED FOR USE BY LAW ENFORCEMENT, MILITARY, CORRECTIONAL OFFICERS, PRIVATE SECURITY GUARDS, BAIL ENFORCEMENT AGENTS AND OTHER AUTHORIZED PERSONNEL. THIS PRODUCT LAUNCHES PROJECTILES FROM THE BARREL. MISUSE MAY CAUSE SERIOUS INJURY OR DEATH. ALWAYS MAKE SURE THAT THE TRIGGER SAFETY IS IN THE “SAFE MODE,” EXCEPT WHEN THE LAUNCHER IS IN USE. SEE ADDITIONAL SAFETY GUIDELINES AND USER INSTRUCTIONS IN THIS MANUAL.

# WARNINGS & SAFETY

## **Congratulations on your purchase of the PepperBall® TAC-SF™ Launcher.**

This launcher has been designed and manufactured by United Tactical Systems, LLC (UTS) to be reliable, accurate and durable. When properly handled, the TAC-SF will give many years of dependable service. Please take the time to read through this manual and become familiar with the TAC-SF parts, operation, maintenance, and safety precautions before you attempt to load or fire this launcher. This manual is a supplement to the recommended PepperBall training and should be used as a reference when performing maintenance or re-qualification.

By purchasing this launcher, you and your agency assume total responsibility for its safe and lawful use. You must observe the same safety precautions as you would with any firearm to ensure the safety of not only yourself, but everyone around you. The operator should use caution at all times when maintaining and firing this launcher.

## **LIMITATIONS AND USAGE**

There are some state or local limitations on purchase, possession, and use of the TAC-SF. Verify local legal requirements in your state and city to ensure possession and use are proper. The user assumes the liability from unsafe or improper use or any action which constitutes a violation of any applicable law or regulation.

The TAC-SF may be prohibited from certain premises, including government buildings, airports, courthouses, schools, or other public spaces. Possessing a TAC-SF in a prohibited area may subject user to criminal liability.

**WARNING:** If misused, this PepperBall launcher is a dangerous weapon.

The user assumes all liability from unsafe handling or any action that constitutes a violation of any applicable laws or regulations. UTS shall not be liable for personal injury, loss of property, or loss of life resulting from the use of this weapon under any circumstances, including any intentional, reckless, negligent, or accidental discharges. By using this PepperBall launcher, you release UTS of any and all liability associated with its use.

All information in this manual is subject to change without notice. Please refer to [www.pepperball.com](http://www.pepperball.com) for the most up-to-date information about the use of this product. UTS reserves the right to make changes and improvements to products without incurring any obligation to incorporate such improvements in products previously sold.

## **IF YOU DO NOT ACCEPT LIABILITY, DO NOT USE THIS OR ANY PEPPERBALL LAUNCHER.**

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## **SAFETY IS YOUR RESPONSIBILITY!**

The following safety information contains important warnings related to the proper use of the launcher, projectiles, and gas canisters. Do not load, discharge, or otherwise use this launcher until you have completely read this manual and/or have completed training and are familiar with its safety features, mechanical operation, and handling characteristics.



# SAFETY

## LAUNCHERS

**WARNING: CONTENTS ARE DANGEROUS — USE WITH CARE. PURCHASE AND USE OF PEPPERBALL LAUNCHERS AND PROJECTILES ARE LIMITED TO INDIVIDUALS WHO ARE AT LEAST 18 YEARS OLD. KEEP ALL PEPPERBALL PROJECTILES AND LAUNCHERS OUT OF THE SIGHT AND REACH OF CHILDREN.**

- **DANGER:** Never aim or shoot at the head, face, eyes, ears, throat or spine. Impact in these areas could result in unintended severe or permanent injury or death.
- **DANGER:** ALWAYS KEEP THE LAUNCHER POINTED IN A SAFE DIRECTION. Never look down the barrel of the launcher. Accidental discharge into the eyes may cause permanent injury or death.
- Handle this launcher as if it were loaded at all times.
- Keep your finger off the trigger until ready to fire.
- Keep this launcher on “Safe Mode” until ready to fire. Store in a safe and secure location when not in use.
- Never point or discharge your launcher at anything you do not intend to shoot.
- Never discharge your launcher at the personal property of others.
- Do not disassemble this launcher while it is pressurized or attempt to pressurize while it is disassembled.
- Keep exposed skin away from any escaping gas when in use and when installing or removing air supply.
- Use only PepperBall® authorized projectiles in this launcher. The use of any unauthorized projectiles in this launcher will void all warranties.
- Any modifications to the launcher are prohibited, except with United Tactical manufactured accessories and in accordance with United Tactical instructions. Unauthorized modifications will void all warranties.
- Increasing the velocity of this product increases the risk of death or injury.

## HIGH PRESSURE SYSTEMS

### WARNING—CONTENTS UNDER PRESSURE

Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 120°F. Keep out of the reach of children.

# SAFETY

## PROJECTILES

Read projectile label carefully before opening container or using any of its contents. Opening container indicates user has carefully read label in its entirety and accepts its provisions as the terms and conditions under which this product is furnished.

Handle PepperBall projectiles with care and follow proper cleanup procedure. PepperBall projectiles cause skin irritation, serious eye irritation, and may cause serious respiratory irritation. Exposure may result in copious tears, temporary blindness, burning sensation, and difficulty breathing. The projectile should never be ingested.

- In case of accidental exposure, exit the exposure area. Remove contact lenses and contaminated clothing. Flush eyes and affected areas with cool water. Do not rub or use creams, salves, lotions or oils which can trap irritant on the skin. Discard contact lenses and wash exposed clothing before reuse. If exposure or ingestion occurs, get medical advice/attention.
- Keep all PepperBall projectiles out of the reach of children. Store in a secure location with temperatures not to exceed 150° F or below -15° F. PepperBall projectiles have a shelf life of 2 years and should be safely disposed of after this period.

## EXPOSURE:

**Eye Contact:** Flush eyes and other contaminated areas IMMEDIATELY with large amounts of cool water, and expose to fresh air. Contact lenses should be removed by subject or qualified medical personnel and must be discarded.

**Skin Contact:** Wash skin with soap and water to prevent further exposure. Flush skin with large amounts of cool water to minimize irritant effect. Wash contaminated clothing before reuse. DO NOT rub contaminated areas or apply creams, salves, oils, lotions, or burn cream, which can trap irritant on the skin.

**Inhalation:** If breathing is difficult, administer oxygen. If high concentrations are inhaled, immediately remove subject to fresh air. Keep person calm. If not breathing, begin artificial respiration. If breathing difficulty persists, seek medical attention.

**Ingestion:** Although ingestion is unlikely and not considered a potential route of exposure, individual should be treated as having an acute non-specific airway reaction by an appropriate specialist. Do not induce vomiting.

For more details on these products, refer to the Safety Data Sheets (SDS) listed on [www.pepperball.com](http://www.pepperball.com).



## INCLUDED PARTS & TOOLS

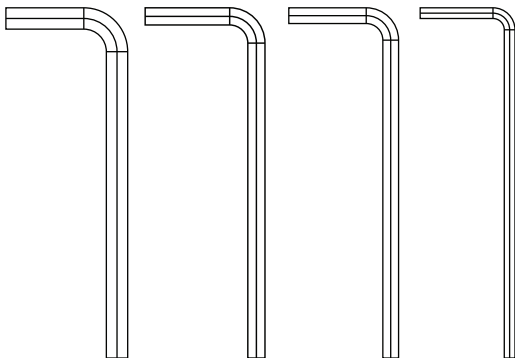
### HEX WRENCHES

4mm

3/16"

3/32"

1/8"

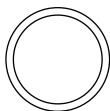


Ball Detent

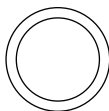


### O-RINGS

Barrel Thread Adapter  
019 N70



Hammer Bumper  
117 N70



Bottle  
015 U90



Bolt  
015 N70



### HAMMER SPRING

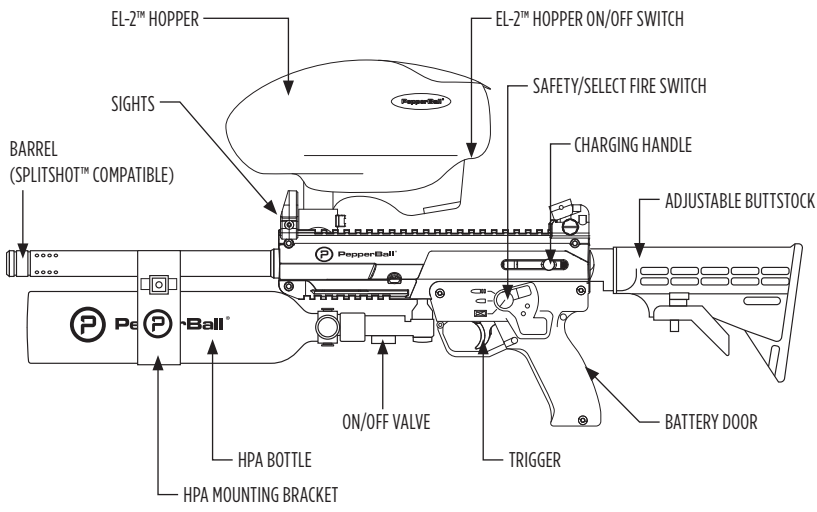


### SQUEEGEE



# OPERATIONAL INSTRUCTIONS

## OVERVIEW



### TAC-SF™ SPECIFICATIONS

SIZE: 21" L x 12" H	WEIGHT: 6.30 LBS	BARREL: 9 1/2"	CALIBER: .68	ACTION: SELECT FIRE
CAPACITY: 180 ROUNDS	POWER: HPA	ROUND DISTANCE: 66'	VXR DISTANCE: 164'	

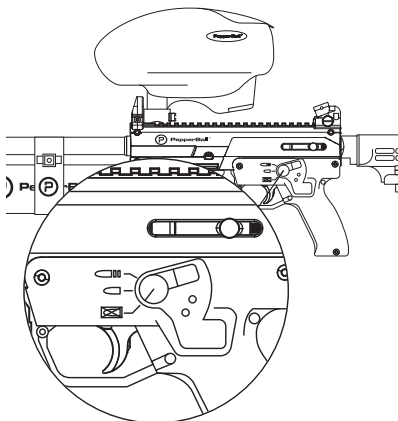


# OPERATIONAL INSTRUCTIONS

## GETTING STARTED

Read this entire manual before using this launcher. Keep your launcher pointed in a safe direction at all times.

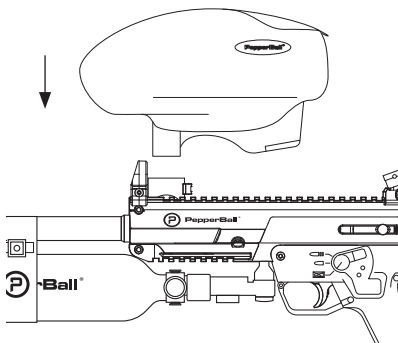
- 1. SAFETY** - Place the TAC-SF™ in “Safe Mode” by rotating the Select-Fire Switch down to 



\*3-round burst model shown

## 2. HOPPER INSTALLATION

- Make sure that the feed elbow and hopper are clean and free of any sharp edges to keep your PepperBall® launcher feeding smoothly.
- Install the hopper neck into the feed elbow of your launcher and secure the hopper with the thumb screw. With the launcher in “Safe Mode,” you are now ready to load your hopper with PepperBall Projectiles.
- Fill the hopper with projectiles and turn on the EL-2™ hopper by pressing the On/Off button on the rear of the hopper.
- Take out of “Safe Mode” only when ready to shoot.



**NOTE:** Do not remove hopper retention plate in adapter. Removal may lead to over compression of hopper neck, which can restrict round passage.



# OPERATIONAL INSTRUCTIONS

## 3. SELECT FIRE OPERATION

- Ensure the On/Off valve is rotated to the “On” position, the Charging Handle is pulled to the rear, then rotate the Select-Fire Switch to the desired firing mode.



Full Auto (if equipped)



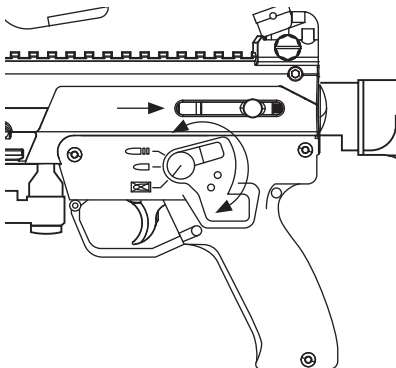
3-Round Burst (if equipped)



Semi-Auto



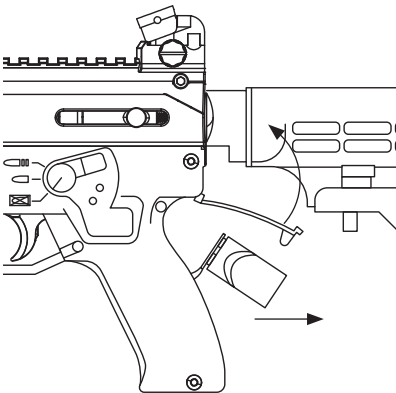
Safe Mode



## BATTERY REPLACEMENT

When replacing the battery, ensure the launcher is unloaded, the air is off, and the Select-Fire Switch is on “Safe Mode.”

1. Open the battery compartment door on the rear of the grip to expose the battery.
2. Carefully pull the battery out of the grip.
3. When re-installing the battery, ensure the battery terminals are securely connected to the battery.
4. Re-insert the battery into the grip and close the battery door, ensuring that it is secure.





# OPERATIONAL INSTRUCTIONS

## UNLOADING LAUNCHER

1. Turn off EL-2™ hopper.
2. Make sure the launcher is on the “Safe Mode” and completely empty the hopper.
3. Place the on-off valve lever in the off position. While pushing down on the Feed Elbow Lever, slide the Feed Elbow to the rear to expose the chamber.
4. Visually inspect the chamber and verify that all projectiles are out of the chamber and barrel.

**IMPORTANT:** Do not uncock the launcher as uncocking the launcher may push a projectile into the chamber or down into the barrel. Be aware that there still may be projectiles in the Feed Elbow

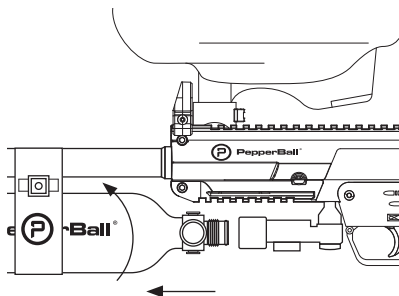
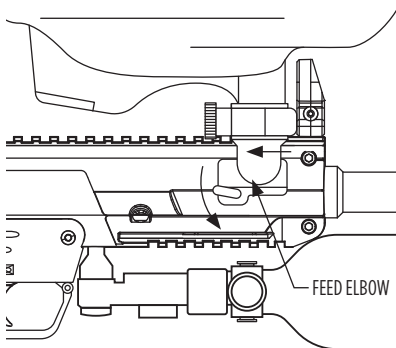
## HIGH PRESSURE AIR (HPA) BOTTLE REMOVAL

1. To remove the HPA bottle, remove the HPA Mounting Bracket, and unscrew the HPA bottle from the On/Off Valve.
2. Ensure the On/Off Valve is in the “Off” position. Using a 3/16” hex wrench, remove the HPA Mounting Bracket from the HPA bottle. Rotate the HPA bottle to the side and unscrew the bottle from the On/Off valve.

**IMPORTANT:** Before storing or disassembling, be sure to remove all projectiles and fire the launcher in a safe direction to confirm there are no projectiles or air left in the launcher. Place the Select-Fire Switch on “Safe Mode.”

## SAFETY NOTES

- Never clean a loaded or pressurized launcher.
- Remove all projectiles from the launcher prior to doing any cleaning or maintenance.
- Never use petroleum-based cleaning solvents or lubricants as they can attack the O-ring seals.
- Do not use cleaning solvents that come in aerosol cans.

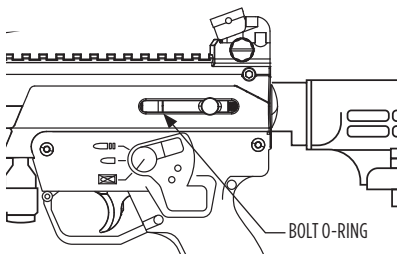


# CLEANING & MAINTENANCE

## LUBRICATION

For optimum performance, do the following monthly:

1. Place one drop of oil on the rear bolt O-Ring.
2. Remove air bottle, place 2-3 drops of oil into air valve then reinstall bottle.



## FAQ

### How do I clean the barrel of my TAC-SF?

- The barrel can be unscrewed for thorough cleaning by unscrewing the barrel from the launcher.
- Use a .68 caliber soft nylon brush, .68 caliber squeegee, or a 12 gauge patch tip with a soft cotton cloth to clean the barrel. Do not allow lubricants or water to remain in the barrel of the TAC-SF™. It is designed to be used with the barrel dry.
- Wipe off any dirt or grime from the outside of the TAC-SF™ barrel with a dry cloth.

### My TAC-SF is leaking down the barrel.

- Check to see that it is properly lubricated.
- Check the Valve O-ring.
- Make sure there is no damage to the valve.
- Make sure you have a sufficient amount of air. If you do not have enough, the valve not engage enough to close.

### My TAC-SF is rapid/sputter firing.

- Check to see that it is properly lubricated. Remove air source, cock back rear bolt and place 1-2 drops of oil on the rear bolt o-ring.
- With the tank still removed, place 2 drops of oil in the Air Source adapter. Install tank and dry fire TAC-SF without projectiles to cycle the oil.
- Make sure your TAC-SF is free of debris.
- Check the trigger sear and springs for wear
- Check the O-ring on the Hammer.
- Make sure you have a sufficient amount of air.
- Check the Air Source Adapter for debris.



# TROUBLESHOOTING

- Make sure you have a fresh batter installed in your TAC-SF.
- If none of this helps, contact [service@pepperball.com](mailto:service@pepperball.com)

## **My TAC-SF is double feeding projectiles/projectiles are falling out.**

- Make sure your ball detent isn't worn or removed.

## **My TAC-SF will not shoot.**

- Make sure your safety is in the "ON" position.
- Make sure you have your TAC-SF loaded with projectiles.
- Check to see that it is properly lubricated.
- Make sure the ball detent isn't backwards.
- Make sure the bolt assembly is properly installed
- Make sure the air is in the on position.
- Check that there is no blockage in your feed elbow.
- Make sure you have a fresh battery install in your TAC-SF

## **I'm experiencing velocity issues.**

- Check that the TAC-SF is properly lubricated.
- Make sure you are adjusting with the proper allen key and the adjuster is not stripped.
- Check that your velocity adjustment screw is set properly.
- Inspect the main spring for wear.

## **My TAC-SF is breaking projectiles.**

- Make sure the launcher is free of broken projectiles or any other debris.
- Make sure the launcher is set to a reasonable velocity.
- Check that it is properly lubricated.
- Check the feed elbow for sharp edges or debris.

## **My feed elbow will not lock into place.**

- Make sure the spring in the feed elbow latch is properly installed.
- If the spring is missing, you will need a replacement.  
Contact [service@pepperball.com](mailto:service@pepperball.com) for assistance.

# TROUBLESHOOTING

## **My barrel wiggles loose when shooting.**

- Check to make sure you have the barrel thread adapter o-ring installed.
- If there is no o-ring, contact [service@pepperball.com](mailto:service@pepperball.com) for assistance.

## **My TAC-SF will not stay cocked.**

- Make sure you have a sufficient amount of air in your tank.
- Make sure the sear and spring are not worn/displaced.

## **HPA BOTTLE AIR LEAKS**

- The most common leak occurs from a bad bottle O-ring, located on the tip of the HPA bottle.
- Remove the bad O-ring before installing a new one. The best O-rings are made of urethane and are not affected by high air-supply pressures. These may be purchased from UTS.
- If a new HPA bottle O-ring does not resolve the air leak, do not attempt to repair the HPAbottle. Please contact UTS."

## **When I switch on firing modes, it will only stay in one mode.**

Your selector pad is sticking. Contact [service@pepperball.com](mailto:service@pepperball.com) for service.

## **The board is not clicking**

- Check to make sure you have a fresh battery installed.
- Inspect the wiring to insure one has not been clipped.
- If problem persists, contact [service@pepperball.com](mailto:service@pepperball.com). You may need a new board installed.

## **My TAC-SF fires once or twice, then stops.**

- Make sure you have a fresh battery installed.
- Make sure it is clean and clear of debris.
- Insure there isn't a projectile jammed in the breech.

## **After cocking my TAC-SF, it will stay cocked even after trying to fire.**

- Check the battery as it will not release without sufficient charge.
- Check for debris on the bolt system.



# WARRANTY & DISCLAIMER

## WARRANTY, DISCLAIMER OF WARRANTY AND LIMITATION OF REMEDIES

United Tactical Systems, LLC (UTS) warrants, solely to the end user, law enforcement agencies, private security firms, or private or public corrections agencies, that the product is delivered free from defects in materials and workmanship for a period of one (1) year from the original date of purchase.

Within the one-year warranty period, UTS' liability and the buyer's sole and exclusive remedy hereunder for all claims shall be limited to a refund or credit to buyer of the purchase price, or replacement of this product, at UTS's option, provided that the non-conforming product is (1) returned during the warranty period and (2) properly packaged and shipped to the UTS designated facility in accordance with the UTS Return Merchandise Authorization (RMA) Policy.

### **THE REMEDY SET FORTH ABOVE SHALL BE THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF THE FOREGOING WARRANTY.**

Products which have been improperly handled, stored or shipped, or which have been subject to abuse, misuse, alteration and or neglect are not covered by the warranty. Aftermarket products and the use of non-authorized projectiles are strictly prohibited by UTS and any indication of their installation or use shall void all warranties. Unauthorized modifications voids the warranty.

**DISCLAIMER OF WARRANTY:** Except for the express limited warranty set forth above, UTS makes no warranties or representations of any kind, whether express or implied, with respect to the product, including any (a) warranty of merchantability; or (b) warranty of fitness for a particular purpose; or (c) warranty against infringement of intellectual property rights of a third-party, whether express or implied by law, course of dealing, course of performance, usage of trade or otherwise. There are no warranties which extend beyond the description of the face hereof. Buyer shall make no warranty or representation regarding the products that is inconsistent with the warranty set forth above. UTS shall not be liable for any injury, loss, or damage, direct or consequential, arising out of the use or the inability to use this product. Warranty does not cover damage caused by abuse, misuse, loss, improper handling, alterations, accident, neglect, or disassembly. Before use, the user shall determine the suitability of the product and be fully trained for its intended use, and user assumes all risks and liability whatsoever in connection therein. In no event shall UTS be liable or obligated to buyer or to any third party in any manner for any (a) special, non-compensatory, consequential, indirect, incidental, statutory, or punitive damages of any kind, including, without limitation, lost profits and/or lost revenue, regardless of the form of action, whether in contract, tort, negligence, strict product liability, or otherwise, even if informed of or aware of the possibility of any such damages in advance, (b) in an amount greater than the amounts paid to UTS by buyer for the products, or (c) damage or injury caused by the products, unless due to the gross negligence or willful misconduct of UTS. The limitations set forth above shall be deemed to apply to the maximum extent permitted by applicable law and notwithstanding the failure of the essential purpose of any limited remedies. The parties acknowledge and agree that they have fully considered the foregoing allocation of risk and find it reasonable, and that the foregoing limitations are an essential basis of the bargain between the parties.

# RETURN POLICY

## CUSTOMER SERVICE, REPAIR POLICY AND RETURN POLICY

For any Customer Service related issues that cannot be answered by the FAQ in this manual, please contact PepperBall at [service@pepperball.com](mailto:service@pepperball.com) or call PepperBall Customer Service at 888-874-3491.

## WARRANTY AND SERVICE INFO

All returns must be authorized by PepperBall. Contact PepperBall at [service@pepperball.com](mailto:service@pepperball.com) or call PepperBall Customer Service at 888-874-3491.

### When returning product:

**CAUTION:** ALWAYS UNLOAD AND REMOVE AIR SOURCE, AND PROJECTILES BEFORE SHIPPING A LAUNCHER.

**CAUTION:** DO NOT SHIP BACK THE AIR SOURCE UNLESS COMPLETELY EMPTIED.

- Make sure the RA Number is clearly marked on the outside of the shipping package.
- Include a brief statement regarding the requested repair.
- Include your name, return address and a telephone number where you can be reached during normal business hours inside the shipping package.
- Out-of-warranty returns require a pre-payment of shipping charges prior to return shipment by UTS.
- All in warranty products will be repaired or exchanged at the discretion of PepperBall and will be shipped back to the Customer via ground shipping at no-charge.
- You may request expedited shipping at your expense with charges paid prior to return shipment.



THIS IS NOT A TOY.

ONLY ALLOW USE BY RESPONSIBLE PERSONS.

READ MANUAL BEFORE USE.

Additional safety information available online.

PepperBall® is a division of United Tactical Systems, LLC  
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