

**TIPPMANN**

**PNEUMATICS, INC.**

*Get Your Heart Pounding With A  
Tippmann!*

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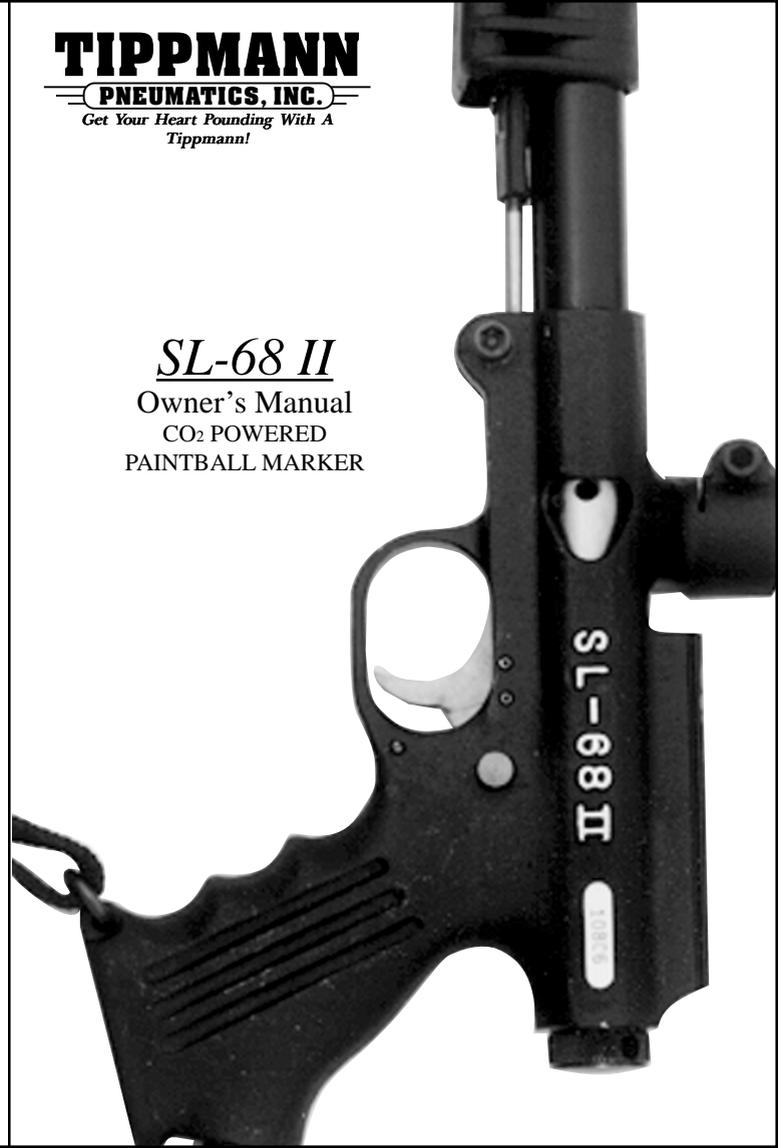
## WARNING:

- This paintball marker/gun is not a toy nor is it intended for unsupervised use by persons under the age of 18 years.
- Misuse may cause serious injury or death.
- Eye Protection designed for paintball use must be worn by the user and any person within range.
- Read operation manual before using.
- Do not field strip or remove any parts while marker is pressurized.

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- Always keep in mind that the sport of Paintball will be viewed and judged upon your safe and sportsmanlike conduct.

## SL-68 II

Owner's Manual  
CO<sub>2</sub> POWERED  
PAINTBALL MARKER



# TIPPMANN

## PNEUMATICS, INC.

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CONGRATULATIONS on your purchase of our "TIPPMANN SL-68 II " Paintball Gun! We believe it to be the most accurate and durable paintball gun available at any price, and it will give many years of dependable service if cared for properly.

Please take time to read through this manual thoroughly and become familiar with the "TIPPMANN SL-68 II" parts, operation, and safety precautions before you attempt to load or fire the weapon.

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### WARNING / LIABILITY STATEMENT

This weapon is classified as a dangerous weapon and is surrendered by Tippmann Pneumatics, Inc. with the understanding that the purchaser assumes all liability resulting from unsafe handling or any action that constitutes a violation of any applicable laws or regulations. Tippmann Pneumatics, Inc. shall not be liable for personal injury or loss of property or life resulting from the use of this weapon under any circumstances, including the intentional, reckless, negligent or accidental discharges.

All information contained in this manual is subject to change without notice, and in no way represents a commitment on the part of Tippmann Pneumatics, Inc. We reserve the right to make changes and improvements to products without incurring any obligation to incorporate such improvements in products previously sold.

### SAFETY IS YOUR RESPONSIBILITY!

The ownership of this weapon places upon you the total responsibility of its safe and lawful use. You must observe the same safety precautions as you would any firearm to assure the safety of not only yourself but everyone around you. Outlined here are some general precautions to be aware of, the user should at all times use common sense when using this weapon and always remember that the game of Paintball can only survive and grow if it remains SAFE!

- Do not load or fire this gun or operate its parts until you have read this manual and are familiar with its mechanical operation and handling characteristics.
- Handle this and any other weapon as if it was loaded at all times.
- Never point the weapon at anything you don't intend to shoot.
- Always keep the muzzle pointed down or in a safe direction -*Even if you stumble or fall.*
- *All persons within 200 yards radius should always wear eye protection in the form of approved goggles or full face mask and never shoot at a person who is not similarly protected.*

(SAFETY Continued next page)

## SAFETY IS YOUR RESPONSIBILITY (Continued from page 1)

- Pressurize and load the weapon only when you are using it. Unload and remove CO<sub>2</sub> cylinder immediately after use for safe storage.
- Dress for safety when playing the game, avoid any areas of exposed skin especially the face and throat. Even a light layer will absorb some of the impact and protect your skin from cuts produced by the gelatin paintball shell fragments when hit at close ranges.
- Keep exposed flesh away from escaping CO<sub>2</sub> gas when installing or removing bottles or cartridges of gas from the weapon or from a filling cylinder. CO<sub>2</sub> gas is very cold and can cause frostbite under certain conditions.
- Use only .68 caliber paintball pellets. Never load or fire any foreign objects.
- Do Not field strip or otherwise disassemble this gun while it is pressurized with gas. Remove CO<sub>2</sub> cylinder or CO<sub>2</sub> cartridge before doing any disassembly.
- Do not look directly into the barrel. Accidental discharge into the eyes may cause permanent injury or death.
- Avoid alcoholic beverages before and during the use of this weapon. Handling guns while under the influence of drugs or alcohol is a criminal disregard for public safety.
- Avoid shooting an opponent at point blank (three feet or less).
- If you purchased a 12 gram cartridge adaptor with this gun be sure to read and follow the instructions that came with the adaptor.
- Never fire your weapon at personal property of others, the paintball can stain the paint of automobiles and houses if left on the surface for a few hours.

**WARNING:** This gun is not a toy nor is it intended for unsupervised use by persons under the age of 18 years. Always keep in mind that the sport of Paintball will be viewed and judged upon your safe and sportsman like conduct.

## GENERAL

The SL-68 II represents a totally original design by Tippmann Pneumatics, Inc. It's design objectives were durability, extreme accuracy and low cost. We have met our objectives and are proud to offer you this high quality weapon. The receiver is super strong aluminum—magnesium alloy and has the feed elbow and gas port cast in place for the ultimate in simplicity and durability. The barrel is aluminum and is also held in place by a built in clamp on the receiver, both clamps are operated by a 3/16 allen wrench. All internal parts are noncorrosive including trigger and sear group. The valve system has been redesigned to eliminate the common breakage of tubes with other guns and we guarantee the seal to last a lifetime. The cleaning port on the left side of the receiver has been designed to clean barrel from the breach end, to visually inspect chamber and feeding, and allow velocity adjustment without gun disassembly.

To load a ball pull the pump handle rearward until it bottoms against the receiver. This will cock the weapon and a ball will drop into the receiver to be loaded. Push the pump back forward and the bolt will push the ball into the barrel. Pull the trigger to fire the ball (this gun cannot be recocked until previous has been fired). The design of the trigger incorporates an auto-trigger effect, with a constant pull on the trigger the SL-68 II will fire each time the pump is cycled.

## SPECIFICATIONS

Model ..... Tippmann SL-68 II  
Caliber ..... .68  
Action ..... Slide action pump  
Power ..... Optional CO<sub>2</sub> gas in cylinders or cartridges  
Muzzle Velocity ..... Approx. 215-315 F.P.S. (adjustable)  
CO<sub>2</sub> Capacity ..... 450+ shots per (optional) 9 oz. cylinder  
Feed ..... Gravity  
Standard Barrel Length ..... 11"  
Sniper Model Barrel Length ..... 14"  
Length - Overall (with Standard barrel & 9 oz. tank) ..... 27"  
Weight with 9 oz. tank (empty) ..... 4 lbs.  
Effective Range ..... 150+ ft.  
Sight ..... Front post and combination dovetail grooved  
..... scope mount, and notched rear sight  
Material ..... Aluminum and stainless steel

## OPERATING INSTRUCTIONS

### 1. CO<sub>2</sub> Cylinder Connection:

- VISUALLY inspect chamber to be sure weapon is not loaded.
- Be sure the muzzle is pointed in a safe direction.

**WARNING:** When you pressurize your SL-68 II or any paintball gun it is possible that a leak in the valve would allow air to pass into the chamber and fire a ball unintentionally!

- Hold the gun with your left hand. With your right hand twist the cylinder clockwise into the port at the rear of the pistol grip until it stops. Gun is now ready to fire.
- The valve stem visible in the end of the cylinder tank valve is depressed on the last turn into the receiver. If a CO<sub>2</sub> leak is present in the tank to receiver connection the o-ring has been damaged and must be replaced. A small amount of Lithium grease on the threads and o-ring will prolong o-ring life.

### 2. Safety Switch:

The gun safety switch is located on the side of the gun just above the trigger. With your gun facing forward in a safe direction, push the safety to the right for the "safe" position. To fire the gun, push your safety to the left. Familiarize yourself and your playing partners with the rules of safety on pages 1 & 2.

### 3. Loading / Unloading Ammo:

**Loading:** Insert Ammo-box into the spout of the receiver. Tighten clamp bolt to secure box but be careful not to over tighten and collapse ammo box feed tube.

- Fill ammo box with .68 caliber paintballs.

Do not force excessive numbers of paintballs into the ammo box.

**Unloading:** To unload, remove ammo box or open ammo box then turn gun upside down to shake all balls from ammo box and chamber area. Then fire gun in a safe direction to clear any balls that may be in barrel or chamber area.

### 4. Firing:

Grip the pump handle with your left hand and the pistol grip in your right hand, pump the handle rearward until it runs out of travel then push it back forward until it again runs out of travel. This should be done in one fluid motion for best feeding results. Take gun off safety by pushing safety button to the left (off) position. Gun is now ready to point in a safe direction and pull trigger to fire.

### 5. Removing CO<sub>2</sub> Cylinder

Twist cylinder counterclockwise 3/4 turn. This closes the cylinder valve. Then point the gun in a safe direction and pull the trigger.

**(Caution:** Gun will fire approximately 3 more times until CO<sub>2</sub> charge in receiver is gone.)

**NOTE:** Removing the constant air cylinder from the receiver while the weapon is still charged with CO<sub>2</sub> will damage the o-ring.

Now, twist cylinder free from receiver for storing or when not in use. **Caution:** *If this procedure is not followed you could destroy your tank o-ring, causing CO<sub>2</sub> cylinder to leak when reconnected to the gun.*

### 6. Velocity Adjustment :

The SL-68 II is factory pre-adjusted to approximately 300 F.P.S. It can be adjusted from 215 to approximately 315 F.P.S. with the velocity adjustment set screw. This enables you to adjust the velocity of your SL-68 II to meet the playing field standards under a variety of condition extremes such as temperature, humidity and altitude which can affect performance.

**SET SCREW LOCATION:** The velocity adjustment set screw is visible in the port and can be adjusted without any gun disassembly.

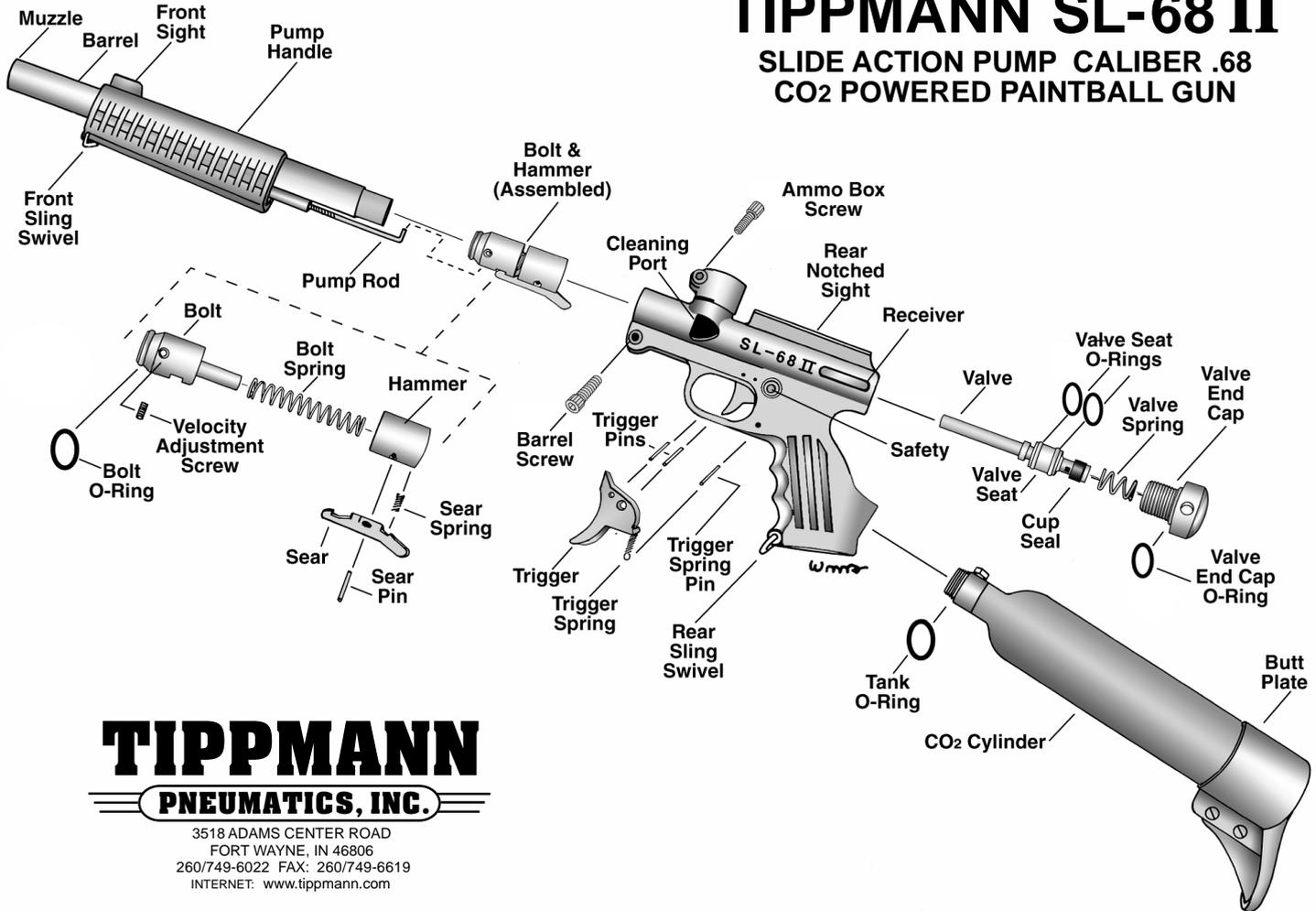
**WARNING:** Do not exceed 300 F.P.S. for maximum accuracy and minimum use of CO<sub>2</sub>. Most playing fields require 300 F.P.S. or **Lower** velocities for safe play.

**TOOLS:** A 3mm allen wrench has been included with your SL-68 II for set screw velocity adjustment.

Velocity Adjustment continued on page 8.

# TIPPMANN SL-68 II

SLIDE ACTION PUMP CALIBER .68  
CO2 POWERED PAINTBALL GUN



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Velocity Adjustment continued from page 5.

**ADJUSTMENT TO INCREASE VELOCITY** — Insert 3mm allen wrench into set screw in port and turn counter clockwise (set screw moves out).

**NOTE:** One full turn of this set screw will change the velocity approximately 12 F.P.S.

**IMPORTANT:** Do not remove the set screw totally or you will lose velocity. **IMPORTANT:** If set screw is turned out past flush, the gun will not cock.

**TO DECREASE VELOCITY** — Insert 3mm allen wrench into set screw in port and turn clockwise (set screw moves in).

**NOTE:** One full turn of the set screw will change the velocity approximately 12 F.P.S.

## MAINTENANCE

### 1-M. Field Barrel Cleaning

The cleaning port in the left side of the receiver has been designed to clean the barrel from the breech end in the field quickly and efficiently with our specially designed cleaning cable.

If this gun is kept clean and good paintballs are used there is little chance of a ball breaking. However, if a ball should break in the field, follow these simple instructions to get back into the game.

- Remove cleaning cable from its storage position in the bottom of the pump handle.
- Turn weapon right side down to prevent a ball from dropping into the chamber and pump action all the way rearward. Insert small end of cleaning cable into the port and feed it into the barrel until it extends out of the muzzle.
- Grasp small end of cable and pull it through the barrel & it will pull the paint and shell fragments out of the barrel. You can now tilt the receiver back up to let a ball fall into the chamber and pump it closed.
- Replace cable into its slot under pump handle.

### 2-M. Field Stripping / Reassembly

**WARNING:** Do not field strip / disassemble, assemble or perform any type of maintenance to the SL-68 II while it is loaded or pressurized with CO<sub>2</sub> gas.

**Field Stripping:** Loosen field strip bolt at the front of the receiver with the 3/16 allen wrench that has been enclosed with your SL-68 II. The barrel will now pull straight out of the receiver along with the pump handle and rod which is attached to the bolt. The hammer spring and hammer can be removed by tilting the receiver forward and allowing them to fall out. The valve system will remain in the receiver.

This is the only disassembly required to perform periodic cleaning or barrel change.

**Reassembly:** Reassembly is in reverse order of field stripping. Be sure to insert hammer facing the correct way, which is with the "hook" of the sear towards the front of the receiver.

Due to the Anti-Kink design of the bolt it is possible to assemble bolt and hammer with spring compressed and sear holding hammer to bolt. Then inserting all into front of the receiver as an assembly. **USE CAUTION** if using this method as the sear could accidentally disengage from the bolt and would be shot off the bolt by the hammer spring.

**WARNING:** Do not over tighten clamp bolt when reassembling. It takes very little clamp pressure to hold barrel firmly in place. Over tightening could prevent gun from cocking properly.

### 3-M. General Maintenance

**WARNING:** Do not clean, disassemble, assemble or perform any type of maintenance to the SL-68 II while it is loaded or pressurized with CO<sub>2</sub> gas.

The SL-68 II is constructed entirely of noncorrosive materials. It will not rust if exposed to water or the environment. All internal parts have been designed to be super durable and they are nearly maintenance free. However, to assure long life and smooth operation all internal parts must be kept clean and lightly oiled. After each use the SL-68 II should be field stripped, cleaned and visually inspected for wear. Barrel must be clean and dry for optimum accuracy.

### 4-M. General Troubleshooting

- **Blast of gas out the barrel when pumping.**

Cause — Pump rod screwed to far out of pump handle.

Solution — Turn rod into pump handle two turns, reassemble and test. Repeat if necessary.

- **Gun will not cock.**

Cause — Pump rod screwed to far into pump handle.

Solution — Turn rod out of pump handle two turns, reassemble and test. Repeat if necessary.

Cause — Velocity adjuster is to far out.

Solution — Turn velocity adjuster in (clockwise) until it is flush with bolt and gun will cock.

- **Gas leak around tank to receiver connection.**

Cause — Worn out or damaged tank o-ring.

Solution — Replace tank o-ring. Do not remove tank under pressure, see page 5 for correct removal instructions.

- **Minor gas leak.**

Cause — Worn or damaged valve seat o-rings.

Solution— Replace valve seat o-ring or return valve if it is defective.

### 5-M. Valve Troubleshooting

The valve is virtually maintenance free and we do not recommend its removal unless it develops a leak. The seal on the valve has a lifetime guarantee and should never wear out or leak. Unlike the tank o-ring, the valves two o-rings are stationary and not stressed due to wear.

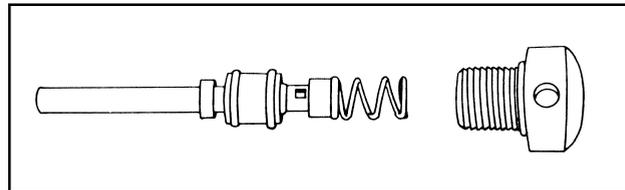
In the case of leaking o-rings simply replace the two valve o-rings to correct the problem. If the seal is leaking return entire valve assembly to us and we will replace at no charge to you.

**WARNING:** Do not attempt to remove valve while system is pressurized.

**VALVE REMOVAL:** To remove the valve, unscrew the rear end cap by inserting an allen wrench through the hole in the end cap and turning counterclockwise. Remove the end cap and then pull the spring and valve out. If the valve does not easily pull out, field strip the gun which allows you to push the valve out through the rear end cap opening.

**VALVE INSTALLATION:** Inspect the o-rings for wear and lubricate before reassembly to avoid o-ring damage.

Insert the valve into the rear end cap opening (valve tube first) with the valve spring in place as shown below. Complete the installation by inserting the rear end cap against the valve spring and tightening. Do not over-tighten as damage to the end cap o-ring could result.



## INSTRUCTIONS FOR FILLING TIPPMANN PNEUMATICS 9 OZ. CO<sub>2</sub> CYLINDERS

- Cylinders must be completely empty to fill properly: To empty, depress pin valve on top of cylinder firmly against small round object until completely empty.
  - Bulk cylinders for filling small CO<sub>2</sub> Cylinders must have a siphon tube. Bulk cylinders with siphon tubes are marked with red paint around top of cylinder.
  - To fill cylinder, first weigh the TPI 9 oz. cylinder when it is completely empty then install the filling adaptor on bulk cylinder. Then crack hand valve open until the gas in siphon tube escapes and liquid CO<sub>2</sub> appears in the form of white vapor. Next, install empty 9 oz. cylinder into adaptor (hand tight) against rubber washer inside adaptor; then open bulk cylinder hand valve. After approximately 30 seconds, turn hand valve off and remove 9 oz. cylinder.
- NOTE: If 9 oz. cylinder was frosty cold when filled it will now have approximately 9 oz. of CO<sub>2</sub> gas in it. If 9 oz. cylinder was warm, it will have approximately 5 oz. of CO<sub>2</sub> gas in it. To fill to 9 oz., depress pin valve on top of cylinder against small round object until completely empty again. This will frost or chill cylinder for final fill. While cylinder is chilled, repeat filling operations. Second filling should now fill cylinder to approximately 9 oz. of CO<sub>2</sub> gas, but it must be weighed.
- To weigh cylinders, first weigh the cylinder when it is completely empty. Then weigh cylinder again when it is filled. Subtract the empty weight from the filled weight to tell the net weight of CO<sub>2</sub> gas in the cylinder. Do not exceed 9 oz. net weight.

NOTE: If 9 oz. cylinder leaks after filling and removing from bulk cylinder, tap valve pin with small ball peen hammer to clear dry ice from the valve seat.

**WARNING:** Do not overfill 9 oz. cylinders. Do not store full cylinders in a high temperature area. Always use caution when filling and handling high pressure constant air cylinders.

## Warranty and Repair Policy

Tippmann Pneumatics, Inc. is dedicated to providing you with the ultimate paintball gun and the quality support necessary for the utmost satisfaction in its use. Tippmann Pneumatics, Inc. warrants that this product is found free from defects in materials and workmanship for a period of 1 year from the original date of purchase by the initial owner/purchaser. On claims submitted as outlined, Tippmann Pneumatics, Inc. will repair or replace, without charge, any of its guns that have failed through defect in material or workmanship.

In the event warranty or other non-warranty related repairs are required, send the product(s) to Tippmann Pneumatics, Inc. We strive to complete the necessary repair work within 24 hours and return it to you via regular ground UPS. For assistance with warranty and repair call 1-800-533-4831.

Note: If you should encounter any problems with your gun and you have aftermarket parts on your gun, please test it with the original stock parts before sending it in.

