



PMI TRACER™

SEMI-AUTO

--68 CALIBER SEMI AUTOMATIC PAINTBALL MARKER

INSTRUCTION MANUAL

Paintball is a recreational and competitive sport played worldwide. Special equipment used in paintball includes paintball markers, which are airguns; and paintballs, which are liquid-filled gelatin capsules that mark with a bright color. The object of the game is to capture the opposing team's flag; while on that quest, players try to mark their opponents to eliminate them from the game.

This owner's manual is provided with several models of the PMI Tracer™ paintball marker. Pursuit Marketing, Inc. (PMI, Inc.), reserves the right to modify or change its markers without incurring any obligation to incorporate such modifications or changes in any of its products that were sold prior to the modification. The information in this owner's manual may be updated or changed without notice.

This owner's manual is intended to remain with the paintball marker upon any subsequent transfer of the marker, whether through sale, resale, or furnishing in any manner. Updated and replacement owner's manual may be obtained from: Pursuit Marketing, Inc., 5035 River Road, Schiller Park, IL 60176 USA; phone 800.579.1633; www.buypmi.com.

Questions about the operation of the PMI Tracer™ paintball marker may be directed to Pursuit Marketing, Inc. or visit www.buypmi.com for updates regarding your Tracer™ Purchase.

STATEMENT OF LIABILITY

This PMI Tracer™ semi-automatic paintball marker is surrendered by Pursuit Marketing, Inc. (PMI, Inc.), with the express understanding that the purchaser assumes all liability arising out of any unsafe handling of this marker or any action that violates any applicable laws or regulations. PMI, Inc., assumes no liability for, and shall not be responsible for, any personal injury or loss of property or life resulting from the use of this paintball marker under any circumstances, including but not limited to those resulting from intentional, reckless, negligent or accidental discharges.



WARNING

PROTECTIVE GOGGLES AND HEADGEAR SPECIFICALLY DESIGNED FOR PAINTBALL MUST BE WORN BY ALL PERSONS WITHIN RANGE WHEN A PAINTBALL MARKER IS IN USE. PAINTBALL SAFETY RULES MUST BE FOLLOWED AT ALL TIMES.

PMI TRACER™ SPECIFICATIONS

Action:	semi-automatic, open bolt, blow-back
Length:	17 inches overall (with 9 in. barrel and without attachments)
Weight:	1 lb. 7 oz. (PMI Tracer™) all weights are without attached air source or loader
Height:	8 inches (without attached loader)
Barrel:	threaded and polished aluminum
Barrel Length:	9 inches
Feed Port:	7/8 inch outside diameter; fits standard elbow adapters
Paintballs:	for use only with standard ".68 caliber" (.68-inch diameter) paintballs
Power source:	accepts standard connections for CO ₂ , regulated N ₂ , or regulated compressed air
Operating pressure:	recommended 650 p.s.i. to 800 p.s.i.
Input pressure:	800 p.s.i. Do not exceed recommended input on operating pressure
Power source input:	bottom line adapter; accepts standard threading
Grip:	molded, 45 style
Safety:	rotating mechanical

PAINTBALL BASIC SAFETY RULES

SAFETY FIRST!

READ THIS OWNER'S MANUAL COMPLETELY BEFORE LOADING, PRESSURIZING, OR OPERATING THE PMI TRACER™ PAINTBALL MARKER.

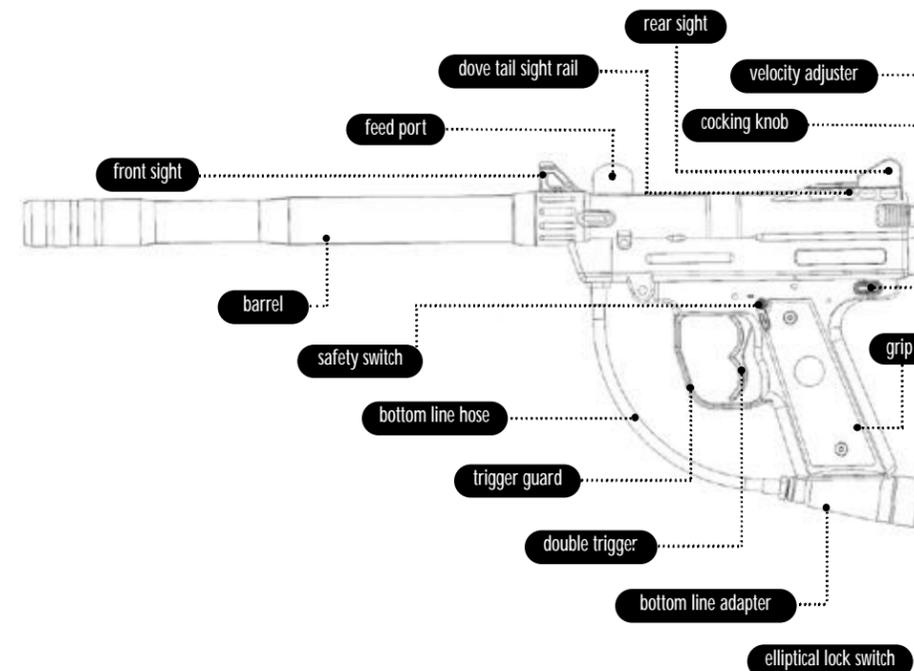
- Always wear protective goggles and headgear specifically designed for paintball when shooting this marker.
- Every person within range of an area where a paintball marker is in use must wear protective goggles and headgear specifically designed for paintball.
- Operate a paintball marker only in areas where it is safe and lawful to do so.
- Misuse of this paintball marker can result in criminal penalties including jail time.
- This marker is intended for sale to adults only. Adult supervision is recommended at all times whenever a minor is handling the marker in any manner.
- Never aim or shoot a paintball marker toward any person who is not wearing protective goggles and headgear specifically designed for paintball.
- During game play, follow referee's instructions and all field safety rules. Avoid shooting at a player's head, neck, or groin area.
- Play paintball only where the rules of safe paintball play are followed.



WARNING

THE PMI TRACER™ PAINTBALL MARKER IS NOT A TOY. 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 THIS OWNER'S MANUAL COMPLETELY BEFORE LOADING, PRESSURIZING, OR OPERATING THE PMI TRACER™ PAINTBALL MARKER.

PMI TRACER™ PARTS LOCATION



OPERATING THE PMI TRACER™ PAINTBALL MARKER

1. Attach threaded barrel firmly to marker.
2. At this time, do not attach power source or loader and do not load paintballs into marker.
3. Insert barrel plug firmly into barrel.
4. Pull the cocking knob straight back from the rear of the marker until the cocking mechanism locks back in the cocked position. Push cocking knob back into original position. Figures 1 and 2.
5. Squeeze the trigger with an even pressure. You will hear the hammer snap forward.
6. Attach feed tube elbow and empty loader. If the feed tube elbow is difficult to attach, run hot water over the elbow or soak it in hot water for one minute, which will help the elbow expand for easier attachment. When the elbow cools, the snug fit will help the loader remain in position.
7. Attach CO₂ source to bottom line adapter, insure safety is in no shoot position (see Figure 3 below).
8. Cock the marker.

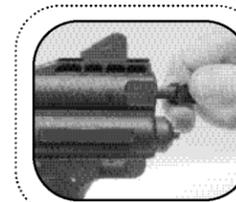


Figure 1 Pull Back

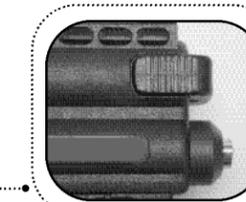


Figure 2 Fully Cocked

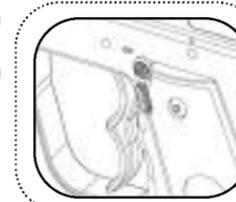


Figure 3 no shoot position

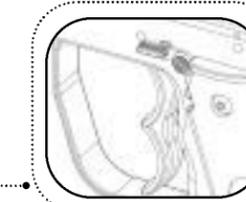


Figure 4 shoot position



WARNING

ALL PAINTBALL MARKERS MUST BE CHRONOGRAPHED REGULARLY. ADJUST MARKER TO SHOOT PAINTBALLS AT A VELOCITY THAT IS LESS THAN 300 FEET PER SECOND (FPS) AND THAT DOES NOT EXCEED THE VELOCITY LIMIT SET BY THE PAINTBALL PARK WHERE THE MARKER IS IN USE. CHRONOGRAPH THE MARKER AT REGULAR INTERVALS DURING THE DAY, AS WELL AS ANY TIME THE POWER SOURCE IS REFILLED OR CHANGED, ANY TIME THE BARREL OR ANY PART IN THE POWER SYSTEM IS CHANGED, AND UPON REQUEST OF ANY PLAYER OR GAME OFFICIAL.

VELOCITY ADJUSTMENT OF THE PMI TRRACER™

1. Chronograph the marker using standard chronograph procedures and following safety rules. Shooting velocity will vary based upon many factors.
2. Adjust velocity by using a 3/16" allen wrench to turn the velocity adjuster. Figure 6. Turn adjuster clockwise to raise velocity. Turn adjuster counterclockwise to lower velocity. Turning the velocity adjuster changes the amount of tension on the hammer spring. The hammer spring may be changed for additional velocity adjustment; insert stiffer spring to raise velocity and less stiff spring to lower velocity. Extra springs may be purchased from your local paintball retailer.

The hammer spring assembled with the PMI Tracer™ paintball marker is intended to provide appropriate shooting velocity for most outdoor paintball game situations and will provide a range of velocities suitable for most conditions. Shooting velocity will vary based upon form of regulated compressed gas or air used to power the marker, outside temperature, and other factors. Additional hammer springs of varying spring stiffness are available for further velocity adjustment. DO NOT EXCEED 300 FEET PER SECOND (fps) VELOCITY.

DISASSEMBLY PROCEDURE AND CLEANING

1. Before disassembly of the marker, first remove the power source; and remove all gas or air from the power system, then remove all paintballs from the marker and loader. Leave barrel plug firmly inserted in barrel and pointed in a safe direction. Marker must be uncocked to disassemble marker.
2. To remove bolt/hammer assembly, first rotate downward the elliptical switch located on the rear of the grip frame (Figure A). After rotating the switch 180 degrees the grip frame will unlock from the body at the rear of the gun. This will allow you to separate the grip frame and the marker body at the rear only, as they are hinged together at the front. (Figure B)
3. After separating the body and grip frame about one inch apart you must grip the cocking knob with one hand and pull it firmly toward the rear of the gun. (Figure C) The bolt/hammer assembly should easily slide out as one unit. (Figure D)
4. The bolt/hammer assembly can be cleaned with a damp cloth to remove any remaining paintball material.
5. The barrel of the marker can be unscrewed in a counter clockwise direction and removed from the marker body. After removing the barrel the barrel plug may be removed to allow cleaning of the barrel with a paintball barrel cleaner.
6. The outside of the marker can be cleaned with a damp cloth.
7. To reassemble follow directions in reverse order. Lubricate the bolt/hammer assembly as required with PMI Paintball Marker Oil.



Figure A



Figure B



Figure C



Figure D

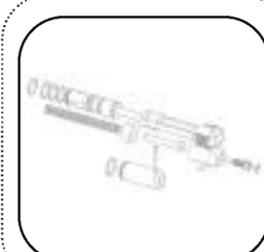


Figure E



Figure F



WARNING

DO NOT ATTEMPT TO PERFORM MAINTENANCE PROCEDURES UNLESS QUALIFIED TO DO SO.

CONTACT PMI INC., FOR REPAIR ASSISTANCE AND INFORMATION REGARDING AUTHORIZED PMI TRRACER™ REPAIR FACILITIES.

BEFORE DISASSEMBLY OF THE MARKER, REMOVE ALL PAINTBALLS FROM THE MARKER, BARREL AND LOADER; REMOVE POWER SOURCE; AND REMOVE ALL GAS OR AIR FROM THE POWER SYSTEM. INSERT BARREL PLUG AND PUT MECHANICAL SAFETY IN "NO SHOOT" POSITION. RULES FOR SAFE HANDLING OF COMPRESSED GAS OR AIR MUST BE FOLLOWED AT ALL TIMES.

PAINTBALL MARKER POWER SYSTEMS MUST BE REPAIRED OR REPLACED WITH THE CORRECT PRESSURE RATED COMPONENTS.

DO NOT ATTEMPT TO UNLOCK THE ELLIPTICAL LOCK SWITCH WHILE THE PMI TRRACER™ MARKER IS PRESSURIZED WITH GAS.

DO NOT ATTEMPT TO REMOVE THE INTERNAL VALVE BODY FROM THE TRRACER™ PAINTBALL MARKER.

TROUBLESHOOTING

AIR LEAK

Leak in pressure source between valve and cylinder	Do not fill cylinder. Immediately take to qualified personnel for inspection. Cylinder must be drained.
Leaks when power system is aired up	Cock marker before powering up system.
Leaks at connection between ASA and tank	Check o-ring at connection or on remote hose connector
Leaks at connection between braided air hose and fitting	Requires disassembly of air hose assembly for repairs; contact factory or factory authorized repair center

TRIGGER AND SHOOTING

Trigger pulls back, marker will not shoot	Check that the safety slide is back and the red dot is visible. Check that the marker is cocked, air source is correctly attached and air source is properly filled
Trigger action does not feel smooth	Check pin at top of trigger near trigger frame; if it catches on the edge of the frame, use center punch to tap pin back into place
Marker runs on (partially cycles more than once)	Check that air source is correctly attached to marker. Check that air source is adequately filled. Check sear for wear. Check hammer o-ring for wear and replace hammer o-ring if needed, using factory o-ring only. Use of other than factory o-ring can cause run on.

VELOCITY

Low	Adjust using velocity adjuster; Check that air source is adequately filled; Remove bolt/hammer assembly and clean it; clean inside receiver area where bolt/hammer assembly is located; Change to a stiffer hammer spring
High	Adjust using velocity adjuster; Change to a less stiff hammer spring

CHRONOGRAPH THE MARKER AT REGULAR INTERVALS DURING THE DAY, AS WELL AS ANY TIME THE POWER SOURCE IS REFILLED OR CHANGED, ANY TIME THE BARREL OR ANY PART IN THE POWER SYSTEM IS CHANGED, AND UPON REQUEST OF ANY PLAYER OR GAME OFFICIAL.. DO NOT EXCEED 300 FPS VELOCITY.

BARREL

Not flying straight	Check for broken paint in barrel, loader, feed tube, chamber, and bolt/hammer assembly area. Disassemble and clean.
Break in barrel	Check ball retainer and replace if necessary
Balls do not drop into feed tube	Shake loader; check loader and feed tube for broken paint
Two shoot at a time	Check ball retainer and replace if necessary

TROUBLESHOOTING CONT'D

PAINTBALLS

Barrel comes loose	Check barrel o-ring; firmly tighten barrel
Aftermarket barrel does not tighten	Check to see that the threads on the barrel match or is difficult to tighten the threads on the receiver; if threading is mismatched, barrel is not designed for use with PMI Tracer™ Figure F

WARRANTY

Pursuit Marketing, Inc. (PMI, Inc.), extends a warranty to the original purchaser of the PMI Tracer™ paintball marker that the product is free from defects in materials and workmanship for a period of six months from the date of purchase. PMI, Inc.'s obligation under this warranty shall be limited to repairing or replacing any part of the product which is defective. Service for this replacement or repair will be done free of charge upon delivery of the product to Pursuit Marketing, Inc. (PMI, Inc.), 5035 River Road, Schiller Park, IL 60176; accompanied by proof of the date of purchase in the form of a sales receipt or packing slip, customer pays shipping charges. Please call PMI, Inc., at 800.579.1633.

WARRANTY EXCLUSIONS AND LIMITATIONS

This warranty does not apply in the event of misuse or abuse of the product, use of any parts other than original factory parts, or unauthorized repairs, modifications, or alterations, and does not apply to any parts that are made defective by modification, misuse, abuse, or accident. This warranty does not apply to o-rings, cup seals, or springs, or to normal fading of anodized finish, scratches, or other cosmetic wear, or to any items or parts not manufactured by PMI, Inc.

Other than as expressly stated herein, PMI, Inc., does not make any warranties, express or implied, including but not limited to implied warranties of merchantability or fitness, for any purpose other than that for which the PMI Tracer™ was designed. This warranty gives you specific legal rights. You may have other rights which may vary from state to state. PMI, Inc., is not liable for any consequential damages or incidental damages which may arise from the use or operation of the PMI Tracer™ or from any breach of the warranty herein set forth.

WARRANTY REGISTRATION FORM

Please fill out entirely the enclosed PMI Tracer™ Warranty Registration form and mail it to: Pursuit Marketing, Inc., 5035 River Road, Schiller Park, IL 60176 USA.

REPAIR PROCEDURE

ORIGINAL SALES PURCHASE RECEIPT OR PACKING SLIP

Save your original sales purchase receipt or packing slip. A copy must accompany the marker when warranty repairs are sought.

PMI, Inc., takes pride in manufacturing high quality paintball products for many years of trouble free enjoyment. Should you experience any difficulty in operating or maintaining this PMI Tracer™ paintball marker, please re-read the owner's manual carefully. If further assistance is needed, contact PMI, Inc., at 800.579.1633.

WARRANTY REPAIR RETURN PROCEDURE

A returned product must be accompanied by a Return Authorization (RA) number; please call PMI, Inc., at 800.579.1633 to obtain a RA number before shipping product to PMI, Inc. All warranty returns must be accompanied by a copy of the sales receipt or packing slip, the owner's name, address, and telephone number. Include owner's fax and e-mail if possible. Owner must remove all paintballs and completely drain power system before shipping, and must pack product securely to avoid damage during shipping. Include a brief description of what does not appear to work correctly. Ship to: PMI, Inc., 5035 River Road, Schiller Park, IL 60176.

OUT OF WARRANTY REPAIRS

Should repairs be needed on a PMI Tracer™ that is out of warranty, contact PMI for information regarding authorized PMI Tracer™ repair facilities.

Any PMI Tracer™ marker returned to PMI for out of warranty repairs must be accompanied by a RA number, description of what does not appear to work correctly, and owner's information requested in "Warranty Repair Return Procedure" above. Including sales purchase receipt or packing slip is optional for out of warranty repairs. Please note that there will be a minimum labor charge and may be additional charges for parts to repair an item/product that is not covered by warranty. An estimate of repair cost will be provided to the customer and authorization to complete the repairs will be obtained prior to repairs being done.