

PMI 
PIRANHA

GB



Play to Win

VTL G2

Custom vertical bottle adapter
Double trigger
Built in powerfeed
Scanline steel valve
Swaps all upgrade components
12 month factory warranty
Available in classic black



BL G2

Custom vertical bottle adapter
w/ 10' Lottentins adapter
Double trigger
Bolt in powerfeed
Stores all bolt valve
Adapts all upgrade components
12 month factory warranty
Available in classic black



STS G3

Same as STS models plus
Ejector cocking bolt system
Venturi bolt
Ram air chamber
Raised sight rail
Velocity thru bolt adjust
Available in classic black & titanium



STS VF G3

Same as STS G3 model plus
Vertical feed body
No elbow necessary
Available in classic black & titanium



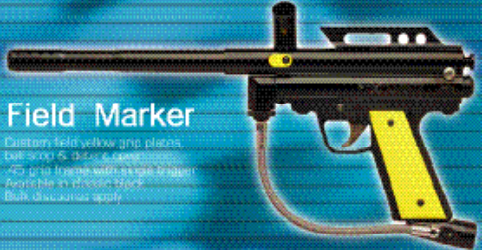
PRO TS G3

Custom triple fans/splash finish
Custom cocking knob
Aluminum double trigger frame
Chrome ball detent cover
Pure Energy adjustable in-line
reg valve & TPXO psi/mph gauge
Available in black/blue/silver fade
and black/green/silver fade finish



Field Marker

Custom field yellow grip panels
ball stop & ball ejection
75 psi in-line with in-line trigger
Available in classic black
Bulk discounts apply



PIRANHA™
 G3

Coming Soon..PMI Piranha PRO E
NEW! Electronic Marker

WHAT THE CRITICS WHAT THE CRITICS



BL VF G3

Same as G3 models plus
vertical feed body
No blow necessary
available in classic black, blue
& red



EXT PRO G3

Same as G3 G3 model plus
Custom milled vertical feed body
PM case P-1mm barrel
Chrome cam air seal cage
raised sight rail & just decent cover
Flush bolt cocking system
Drop forward
Pump Energy adjustable air line
regulator & 1200 psi main gauge
Available in classic black & blue



Field Marker VF

Vertical feed body
Custom field yellow grip plates
ball slug & skirt cover
Custom vertical bottle adapter
w/ 10" backstroke adapter
45 grip frame with single trigger
Available in classic black
Club discounts apply

"A semi-auto with big teeth!"
-APG

"I was quite impressed with their customer service. I really expected to get the run around from such a big company. Instead I was given prompt and courteous service."
-CHAD O'NEILL

PAINTBALL MAGAZINE

"This marker was competitive on the field against higher end model markers and performed well under playing conditions."
-CHAD O'NEILL

PAINTBALL MAGAZINE

"Best Field Gun, Great Value."
-SAL BRIGUGLIO
XTREME
PARK, ST. LOUIS

"The Piranha series of paintguns still smokes the competition in a variety of areas."
-MARK WORRELL
PGI NOV.

"PMI has amazed everyone again with their engineering and art of making paintball markers."
-MIDWEST

PAINTBALL

PMI
PLAY PAINTBALL

WWW.BUYPMI.COM
847.233.9900



The PMI Piranha™ is a semi-automatic paintball marker designed to shoot .68 caliber paintballs for use in the sport of paintball.

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.

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.

WARNING

THE PMI PIRANHA™ 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 PIRANHA™ PAINTBALL MARKER.

STATEMENT OF LIABILITY

This PMI Piranha™ 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.

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

PMI Piranha™ is a registered trademark of Pursuit Marketing, Inc.

Pursuit Marketing, Inc. (PMI, Inc.), founded in 1982 and manufacturer of the PMI Piranha™ line of semi-automatic paintball markers, is an industry-leading manufacturer and wholesale distributor with warehouses in key locations throughout the U.S.A. Headquarters: PMI, Inc., 5035 River Road, Schiller Park, Illinois 60176 USA; phone 847.233.9900; www.buypmi.com

PMI PIRANHA™ OWNER'S MANUAL



WARNING

This paintball marker is intended for sale to adults only, for use in compliance with all applicable laws and regulations. Adult supervision is recommended at all times whenever a minor is handling this paintball marker. 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.



WARNING

THE PMI PIRANHA™ 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 PIRANHA™ PAINTBALL MARKER.

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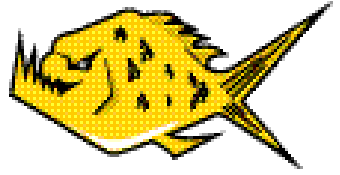
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This owner's manual is provided with several models of the PMI Piranha™ paintball marker. Pursuit Marketing, Inc. (PMI, Inc.), reserves the right to modify or change its markers without incurring any obligation to incorporate such modifications or 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., 500 East Touhy Ave, Unit C, Des Plaines, IL 60176 USA; phone 800.579.1633; www.buypmicom. Questions about the operation of the PMI Piranha™ paintball marker may be directed to Pursuit Marketing Inc., or visit www.buypmi.com for updates regarding your Piranha™ purchase.

PAINTBALL BASIC SAFETY RULES









SAFETY FIRST!



WARNING

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READ THIS OWNER'S MANUAL COMPLETELY BEFORE LOADING, PRESSURIZING, OR OPERATING THE PMI PIRANHA™ 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 this 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.



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.



This paintball marker operates using compressed gas or air at specified pressure ranges. Follow safety procedures when handling compressed gas or air. All filling of compressed gas or air cylinders must be done by qualified persons.



Follow the rules of safe marker handling: Keep finger off trigger until ready to shoot. Keep muzzle pointed in a safe direction. In addition, firmly insert a barrel plug into the muzzle and push the mechanical safety "on" when the marker is not in use and when in any non-shooting area.



Never shoot at domestic animals or wildlife.



Never mark objects outside the confines of the game or authorized shooting areas.



Never look down the barrel of the marker.



Before disassembly, storage, or transport 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.



Carry marker in case or sturdy bag when in public.



Safely and securely store marker to prevent access to it by unauthorized persons.

Safety standards information is available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959; phone 610.832.9500; www.astm.org. "Standard Practice for Paintball Field Operation" is publication F1777-97, and "Standard Specification for Eye Protective Devices for Paintball Sports" is publication F1776-97; inquire about additional publications which may be available at the time request is made.

operating the pmi piranha™ marker

WARNING

Every person within range of an area where a paintball marker is in use must wear protective goggles and headgear specifically designed for paintball.

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. Figures 1 and 2. Certain Piranha models come equipped with a flush cocking bolt. See page 27.
5. Push safety "off." See next page.
6. Squeeze the trigger with an even pressure. The cocking knob will snap forward into the uncocked position.
7. 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. Vertical feed guns do not need an elbow.
8. Cock the marker.



Figure 1. Pull Back



Figure 2. Fully Cocked

WARNING

The power system contains compressed gas or air when pressurized. Never disassemble marker until removing all gas or air from the power system. Rules for safe handling of compressed gas or air must be followed at all times.

- Before attaching power source, read and understand the section in this manual on “Compressed Gas/Air”. Follow safety rules for handling compressed gas/air. If any leak occurs in the power system, refer to troubleshooting guide or to a qualified airsmith. Use only cylinders for compressed gas or air that comply with all applicable laws and regulations, including but not limited to those of the U.S. Department of Transportation, OSHA, Compressed Gas Association, and/or American Society for Testing and Materials.

Vertical air: The power source is attached by screwing the threads of the tank or power source adapter into the threaded ASA, forward of the trigger frame.

Bottom line: The power source is attached by screwing the threads of the tank or power source adapter into the threaded bottom line ASA at the base of the grip.

WARNING

WHEN COCKING THE PRESSURIZED MARKER, DO

NOT RELEASE THE COCKING KNOB UNTIL AFTER THE COCKING MECHANISM HAS LOCKED BACK INTO THE COCKED POSITION; RELEASING THE COCKING KNOB DURING COCKING CAN CAUSE THE MARKER TO SHOOT.

- Test for function after attaching power source: Squeeze the trigger. The marker should shoot air and the cocking knob should cycle forward and back, stopping in the cocked position, after each trigger squeeze. Repeat several times.

The PMI Piranha™ semi-automatic marker shoots one paintball for each squeeze of the trigger, and recocks itself after each shot.

- Following safety rules, paintballs may be loaded.

WARNING

Before disassembly, storage, or transport of the marker, remove power source first, then remove all paintballs from the marker, barrel, and loader; and remove all gas or air from the power system. Insert barrel plug and slide the mechanical safety forward into the “off” position.



The safety is a small mechanical slide on the left side of the marker above the trigger. When the safety is “off,” a red dot is visible and the marker. The trigger can still be pulled if the safety is “on,” but the marker will not fire or de-cock.

COMPRESSED GAS/AIR

The PMI Piranha™ paintball marker may be powered by CO₂, regulated compressed air, or regulated nitrogen.

THE SAFETY RULES FOR HANDLING COMPRESSED GAS OR AIR MUST BE FOLLOWED AT ALL TIMES.

OPERATING PRESSURE AND INPUT PRESSURE

- Operating pressure range: 650 p.s.i. to 1000 p.s.i.
- Recommended maximum input pressure is 1000 p.s.i.
- Do not exceed recommended pressures.

When using a regulator in the marker's power system, follow the instructions provided by the manufacturer of the regulator.

Do not leave cylinder or pressurized marker in direct sunlight or exposed to heat source. Increased temperature will increase the pressure of compressed gas or air to dangerous levels. A stock Piranha usually needs 650 p.s.i. to cycle and attain correct velocity

WARNING

DO NOT EXCEED RECOMMENDED INPUT OR OPERATING PRESSURE.

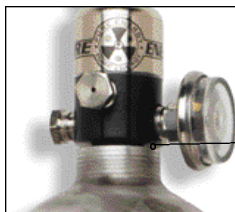


Figure 3 Valve-cylinder connection.



Figure 4 Valve-cylinder connection.

VALVE-CYLINDER CONNECTION

The valve on a cylinder is to remain screwed into the cylinder; Figures 3 and 4. Should it loosen, the cylinder may detach from the valve with extremely dangerous force. Call manufacturer or take to qualified personnel for inspection.

Every time a cylinder is filled, the connection between the valve and cylinder must be inspected. If any looseness or leak is detected between the valve and the cylinder, do not fill. Drain cylinder and call manufacturer or take to qualified personnel for inspection.

During filling, if any looseness or leak is detected between the valve and the cylinder filling must stop immediately. Drain cylinder and call manufacturer or take to qualified personnel for inspection.



WARNING

A COMPRESSED GAS OR AIR CYLINDER IS A PRESSURE VESSEL. FOLLOW RULES FOR SAFE HANDLING OF COMPRESSED GAS OR AIR. ALL FILLING OF COMPRESSED GAS OR AIR CYLINDERS, AND ALL REPAIRS TO A MARKER'S POWER SYSTEM OR ITS COMPONENTS MUST BE PERFORMED BY QUALIFIED PERSONNEL.

FILLING COMPRESSED GAS/AIR

An overfill of any compressed gas or air cylinder can cause the safety burst disk (Figure 5) on the cylinder to burst, or the cylinder itself to rupture. A cylinder may rupture with extremely dangerous force. Use properly rated disk only. Inspect the burst disc for a vent hole. If no hole is present contact a local store or PMI immediately. **DONOT FILL!**

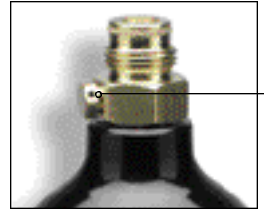


Figure 5 Safety burst disk.

A scale must be used for all CO₂ fills to prevent an overfill. A pressure gauge must be used for all compressed gas or air fills to prevent an overfill.

Fills must be performed by qualified personnel. A cylinder must not be filled beyond the cylinder's capacity per the U.S. Department of Transportation. A cylinder's rated capacity appears on the cylinder itself.



WARNING

DO NOT OVERFILL ANY CYLINDER. AN OVERFILL CAN CAUSE THE SAFETY BURST DISK OR THE CYLINDER ITSELF TO RUPTURE.

HYDROSTATIC TESTING DATE

Many cylinders are required by the U.S. Department of Transportation to be hydro tested at periodic intervals, with the interval varying according to cylinder type. The date of the cylinder's initial or later testing appears on the cylinder. A cylinder that is out of date for hydrostatic testing must not be filled or used.

VELOCITY ADJUSTMENT

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.

1. Chronograph the marker using standard chronograph procedures and following safety rules. Shooting velocity will vary based upon many factors, such as paint, weather, and air system.
2. Adjust velocity by using a $\frac{3}{16}$ " allen wrench to turn the velocity adjuster. Figure 6. Turn adjuster clockwise to raise velocity. Turn adjuster counterclockwise to lower velocity. Figure 7. 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 (red spring is stiffer than blue spring). See next page for more about springs.
3. Chronograph the marker after every velocity adjustment.
4. 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.

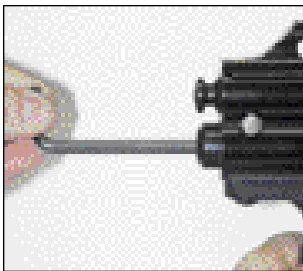


Figure 6. $\frac{3}{16}$ " allen is used to adjust velocity.

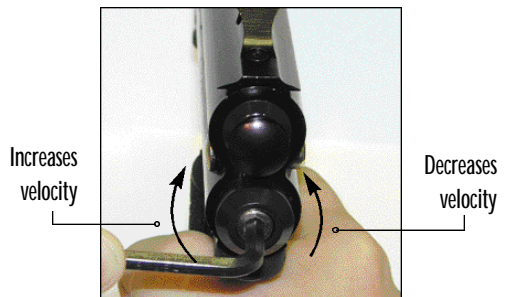


Figure 7. Clockwise increases velocity. Counterclockwise reduces velocity.

Action:	semi-automatic, open bolt blow-back
Length:	17 inches overall (with 9 in. barrel and without attachments)
Height:	8 inches (without attached loader)
Barrel Length:	9 inches for Piranha™ VTL, BL, CLR; 11 inches for Piranha™ EXT, STS and PRO
Paintballs:	for use only with standard “.68 caliber” (.68-inch diameter) paintballs
Operating pressure:	recommended 650 p.s.i. to 1000 p.s.i.
Power source input:	vertical or bottom line ASA; accepts standard threading
Safety:	mechanical slide / barrel plug

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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. A replacement owner's manual may be obtained from Pursuit Marketing, Inc., 500 East Touhy Ave. Unit C, Des Plaines, Illinois USA; phone 800.579.1633; www.buypmi.com

The hammer spring assembled with the PMI Piranha™ 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.
DO NOT EXCEED 300 FEET PER SECOND (fps) VELOCITY.

spring kit instructions

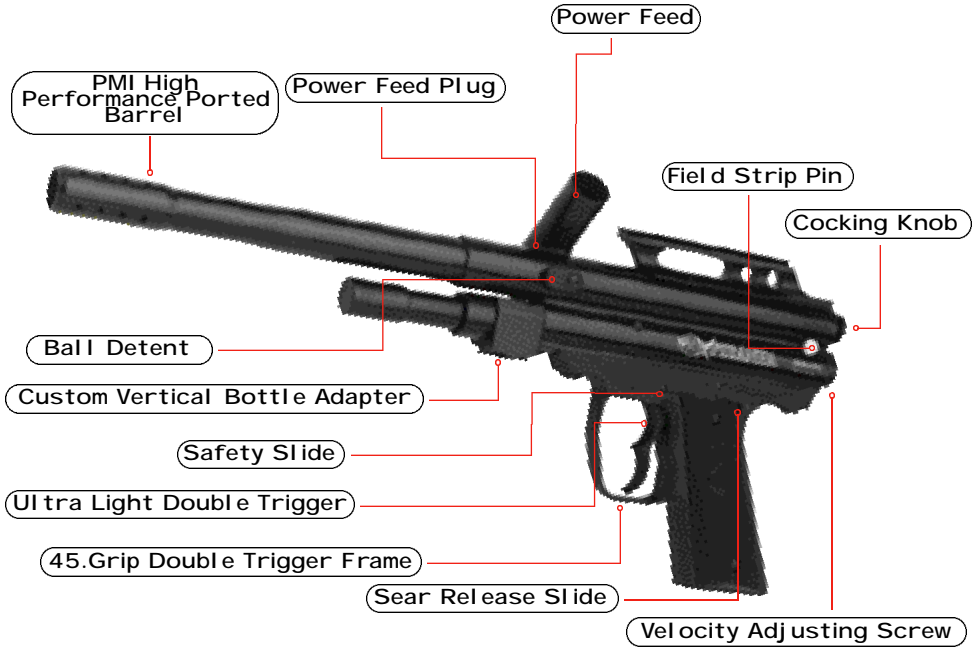
1. Always remove the gas source and all paintballs from your marker before you even consider disassembly of any part of it.
2. Before changing any component of a paintball marker, fully understand the entire owners manual.
3. When changing springs or anything else that will alter shooting velocity of the marker, have appropriate chronograph available for testing results.
4. For **higher shooting velocity** use **red** spring. Never allow the marker to shoot at velocities exceeding 300 FPS.
5. For **lower shooting velocity** use the **blue** spring.
6. Never shoot marker at the heads of people or animals. Never shoot at anyone not wearing goggles and head protection approved for paintball games.

SAFETY FIRST!

Use a Barrel Plug!

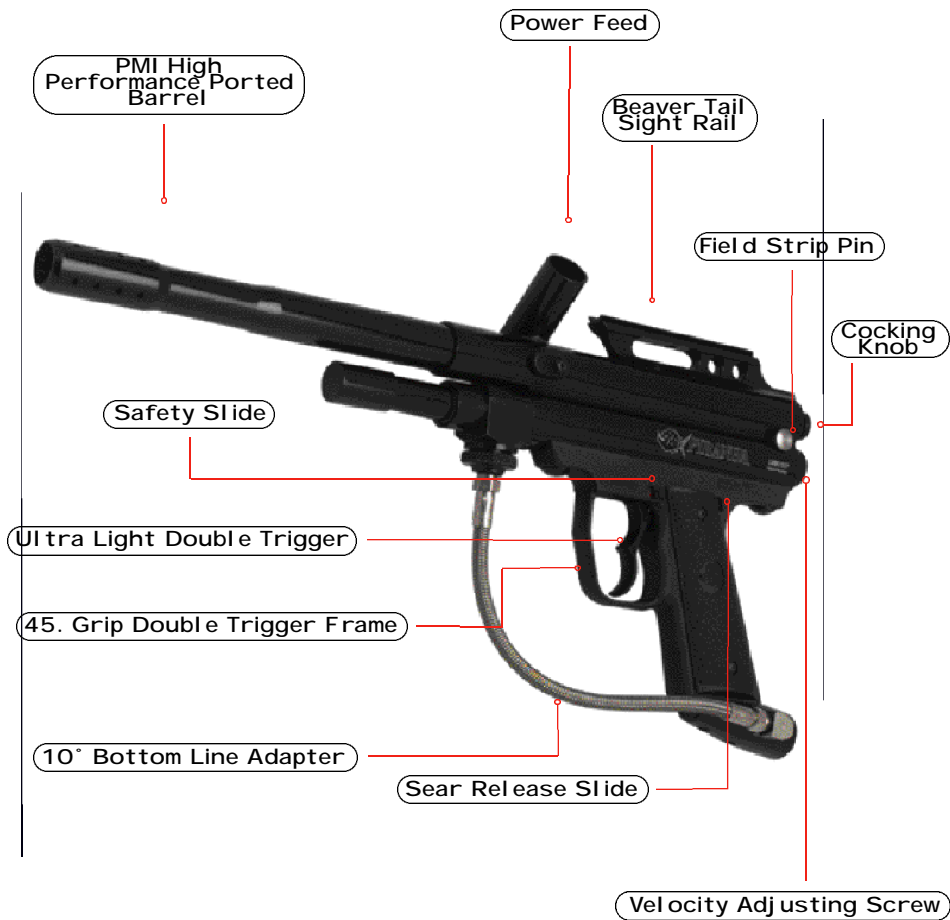
PMI PIRANHA™ PARTS LOCATION

Shown: PMI Piranha™ VTL



PMI PIRANHA™ PARTS LOCATION

Shown: PMI Piranha™ BL



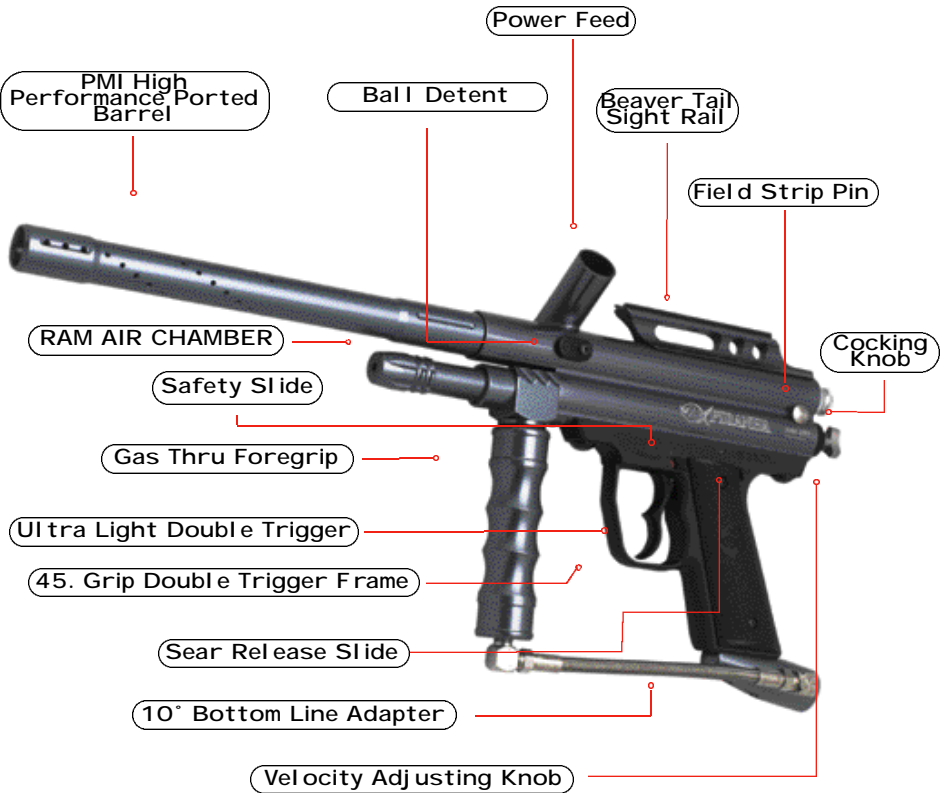
PMI PIRANHA™ PARTS LOCATION

Shown: PMI Piranha™ BL VF



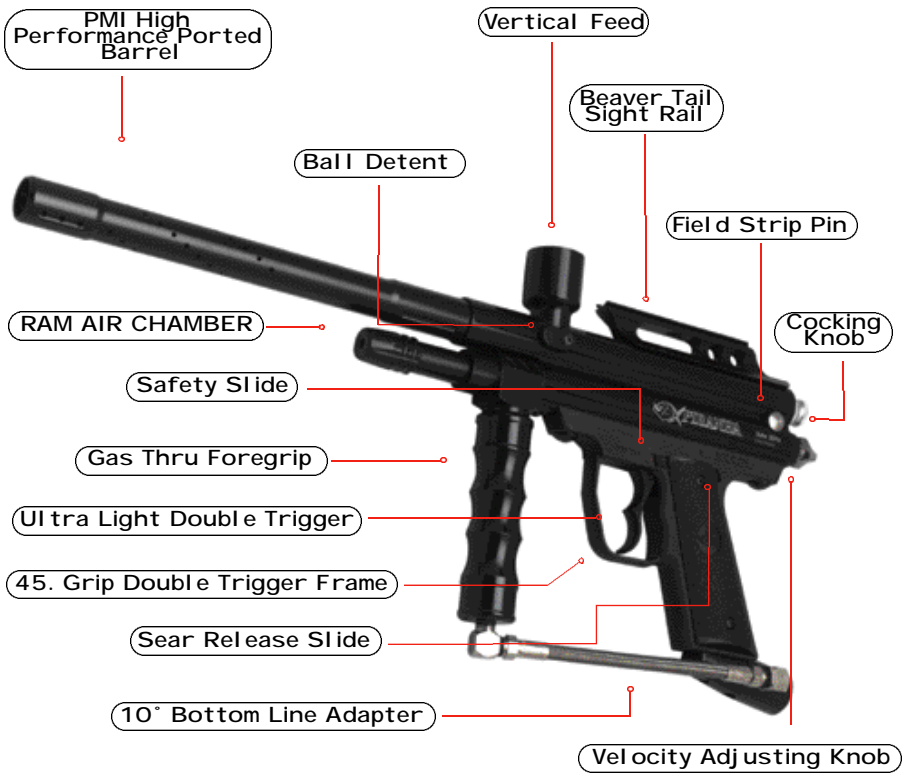
PMI PIRANHA™ PARTS LOCATION

Shown: PMI Piranha™ STS



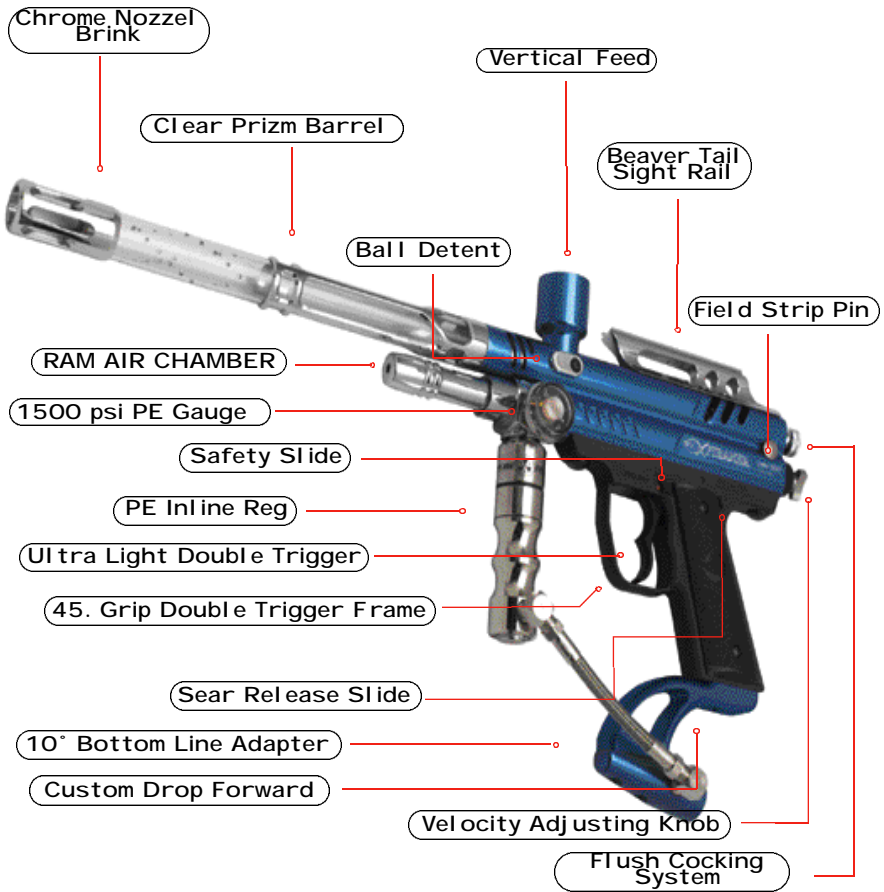
PMI PIRANHA™ PARTS LOCATION

Shown: PMI Piranha™ STS VF



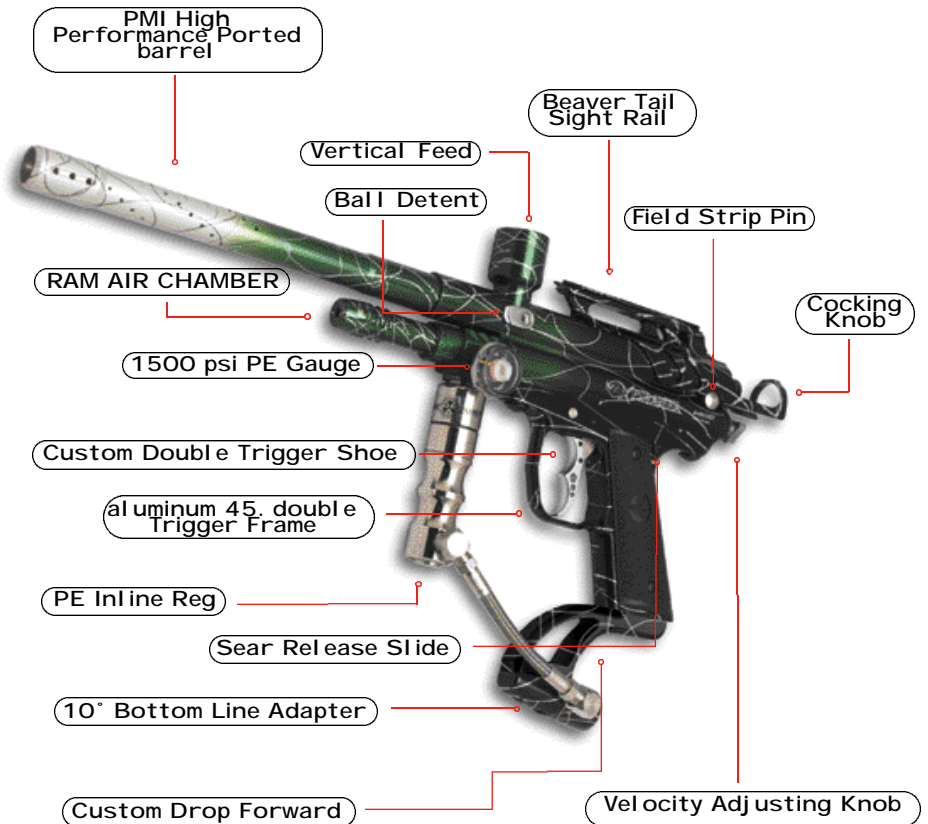
PMI PIRANHA™ PARTS LOCATION

SHOWN: PMI PIRANHA™ EXT PRO



PMI PIRANHA™ PARTS LOCATION

SHOWN: PMI PIRANHA™ PRO TS



YOUR PMI PIRANHA WARRANTY CARD

Dear Piranha Owner :

Thank you for purchasing a PMI Piranha™ paintball marker. Your marker has been designed to give you many years of trouble free service.

Please take a few minutes right now to complete your PMI Piranha's warranty card. By sending in your warranty card you will be kept up to date on all the latest improvements and upgrades available for your PMI Piranha™ marker.

Thank you once again for purchasing a PMI Piranha™ marker, we appreciate your business and promise to provide you with the best after purchase warranty service available in the Paintball Industry.

Regards

All of us at PMI Piranha™ Production

Tape Here



First Class
Stamp
Here

PURSUIT MARKETING INC.
500 East Touhy Ave. Unit C
Des Plaines, IL 60018 USA

PMI PIRANHA™ WARRANTY REGISTRATION

Please fill out entirely this PMI Piranha™ Warranty Registration form including the checklist and mail it to: Pursuit Marketing, Inc., 500 East Touhy Ave, Unit C, Des Plaines, IL 60018 USA . Save your original sales purchase receipt or packing slip. A copy must accompany the marker when warranty repairs are sought. Consult owners manual for warranty information and instructions on obtaining repair service.

Purchaser's name:

Mailing address:

City, State, Zip:

Phone number:

E-Mail Address:

Age:

Model purchased:

Serial number:

(Serial number is located left hand side of marker next to Piranha logo)

Where purchased:

Date of purchase:

Seller's name:

Seller's address:

City, State, Zip:

Purchase price:

Pursuit Marketing, Inc., thanks you for purchasing this high quality PMI Piranha™ paintball marker. Please read each of the following items and initial that you have read and understood it before operating the PMI Piranha™ paintball marker:

1. This paintball marker is intended for sale to adults only, for use in compliance with all applicable laws and regulations. Adult supervision is recommended at all times whenever a minor is handling this paintball marker in any manner.
Please initial: _____
2. Always wear protective goggles and headgear specifically designed for paintball when shooting this marker.
Please initial: _____
3. Every person within range of an area where a paintball marker is in use must wear protective goggles and headgear specifically designed for paintball. Please initial: _____
4. Operate a paintball marker only in areas where it is safe and lawful to do so. Please initial: _____
5. Misuse of this paintball marker can result in criminal penalties including jail time. Please initial: _____
6. Read this owner's manual completely before loading, pressurizing, or operating the PMI Piranha™ paintball marker.
Please initial: _____
7. Never aim or shoot a paintball marker toward any person who is not wearing protective goggles and headgear specifically designed for paintball. Please initial: _____
8. During game play, follow referee's instructions and all field safety rules. Avoid shooting at a player's head, neck, or groin area. Please initial: _____
9. Play paintball only where the rules of safe paintball play are followed. Please initial: _____
10. 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.
Please initial: _____
11. This paintball marker operates using compressed gas or air at specified input pressure ranges. Follow safety procedures when handling compressed gas or air. All filling of compressed gas or air cylinders must be done by qualified persons.
Please initial: _____
12. Follow the rules of safe marker handling: Keep finger off trigger until ready to shoot. Keep muzzle pointed in a safe direction. In addition, firmly insert a barrel plug into the muzzle and push the mechanical safety "on" when the marker is not in use and when in any non-shooting area. Please initial: _____



WARNING

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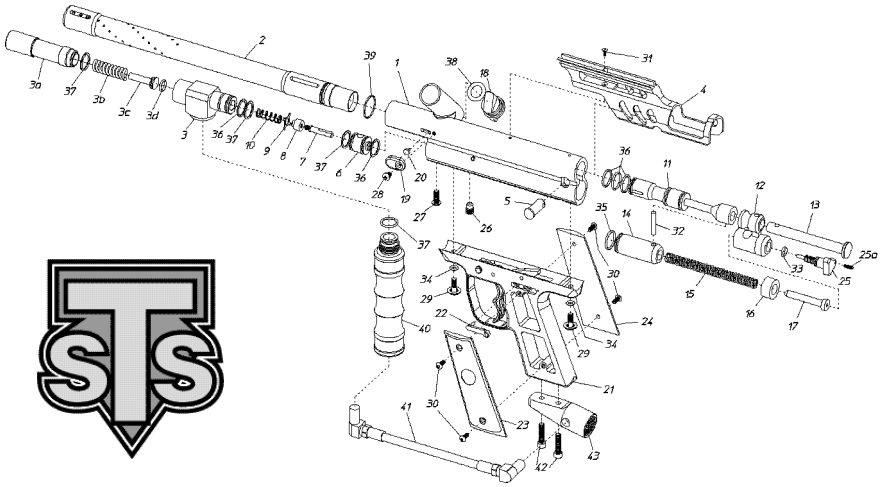
13. Never shoot at domestic animals or wildlife. Please initial: _____
14. Never mark objects outside the confines of the game or authorized shooting areas. Please initial: _____
15. Never look down the barrel of the marker. Please initial: _____
16. Before disassembly, storage, or transport of the marker, 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. Please initial: _____
17. Carry marker in case or sturdy bag when in public. Please initial: _____
18. Safely and securely store marker to prevent access to it by unauthorized persons. Please initial: _____

IT'S TIME TO PLAY THE GAME

Detach and mail

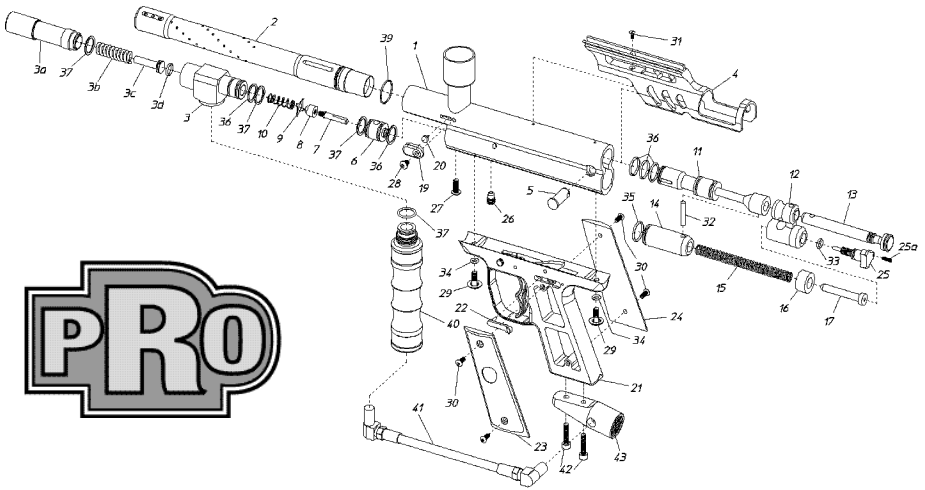


PMI PIRANHA™ PARTS DIAGRAM



1. Receiver	10110/10104	22. Sear Release Slide	10702
2. Barrel	10136/10135	23. Grip Left	10703
3. ASA Body	10617/10615	24. Grip Right	10704
3A. ASA Plug	10618/10616	25. Velocity Screw	10482
3B. Ram Air Spring	10650	26. Valve Set Screw	10513
3C. Ram Air Piston	10619	27. ASA Screw	10680
3D. Piston O-Ring	10661	28. Ball Retainer Screw	10180
4. Sight Rail	10115/10116	29. Trigger Frame Screw	10783
5. Field Strip Pin	10021	30. Grip Screws	10782
6. Valve Body	10510	31. Sight Screw	20010
7. Valve Pin	10511	32. Bolt Pin	10291
8. Valve Cup Seal	10512	33. Velocity Screw O-Ring	10460
9. Valve Guide	10520	34. Trigger Frame Screw O-Ring	10761
10. Valve Spring	10550	35. Hammer O-Ring	10361
11. Venturi Bolt	10209	36. Bolt O-Ring	10260
12. Rear Block	10402	36. Valve O-Ring Rear	10260
13. Cocking Rod	10211	36. ASA O-Ring Rear	10260
14. Hammer	10310	37. Valve O-Ring Front	41010
15. Hammer Spring	10350	37. ASA O-Ring Front	41010
16. Hammer Cushion	10360	38. Ball Stop O-Ring	10162
17. Spring Guide	10301	39. Barrel O-Ring	10161
18. Ball Stop	10102	40. Gas Thru Grip	10788/100780
19. Ball Retention Cap	10101	41. 6.75" SS Hose	47061
20. Ball Retainer	10160	42. Bottom Line SS Screws	42016
21. Double Trigger Frame Assembly	10700	43. 10" Bottom Line Adapter	42013/10779

PMI PIRANHA™ PARTS DIAGRAM



PRO

1. Receiver	10109	22. Sear Release Slide	10702
2. Barrel	10126	23. Grip Left	10703
3. ASA Gas Port	10613	24. Grip Right	10704
3A. ASA Plug	10614	25. Velocity Screw	10482
3B. Ram Air Spring	10650	26. Valve Set Screw	10513
3C. Ram Air Piston	10619	27. ASA Screw	10682
3D. Piston O-Ring	10661	28. Ball Retainer Screw	10180
4. Sight Rail	10121	29. Trigger Frame Screw	10783
5. Field Strip Pin	10021	30. Grip Screws	10782
6. Valve Body	10510	31. Sight Screw	20010
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10. Valve Spring	10550	35. Hammer O-Ring	10361
11. Venturi Bolt	10209	36. Bolt O-Ring	10260
12. Rear Block	10402	36. Valve O-Ring Rear	10260
13. Custom Cocking Rod	10231	36. ASA O-Ring Rear	10260
14. Hammer	10310	37. Valve O-Ring Front	41010
15. Hammer Spring	10350	37. ASA O-Ring Front	41010
16. Hammer Cushion	10360	39. Barrel O-Ring	10161
17. Spring Guide	10301	40. Regulator	10787
19. Ball Retention Cap	10101	41. 6.75" SS hose	47061
20. Ball Retainer	10160	42. Bottom line SS screw	42016
21. Aluminum Trigger Frame	10707	43. 10" Bottom Line Adapter	42013

DISASSEMBLY

The PMI Piranha™ is easy to strip for cleaning and basic maintenance. **Regular cleaning and maintenance is highly recommended, including frequent checks of all power system components.** Keep screws tightened. Replace worn components with factory parts; all leaks must be repaired promptly. Power system repairs are best performed by the factory or an authorized factory repair facility; contact PMI for information regarding authorized PMI Piranha™ repair facilities.

WARNING

DO NOT ATTEMPT TO PERFORM MAINTENANCE PROCEDURES UNLESS QUALIFIED TO DO SO. DO NOT DISASSEMBLE MARKER UNTIL IT IS COMPLETELY DRAINED OF COMPRESSED GAS OR AIR AND ALL PAINTBALLS HAVE BEEN REMOVED. ALL FILLING OF COMPRESSED GAS OR AIR CYLINDERS MUST BE DONE BY QUALIFIED PERSONS.

CONTACT PMI, INC., FOR REPAIR ASSISTANCE AND INFORMATION REGARDING AUTHORIZED PMI PIRANHA™ REPAIR FACILITIES. PHONE 800.579.1633;WWW.BUYPMI.COM

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

DISASSEMBLY PROCEDURE

1. Before disassembly of the marker, first remove the air tank, and then remove all paintballs from the marker, barrel, and loader.



Figure 10 Remove field strip pin to begin disassembly.

2. Leave barrel plug firmly inserted in barrel and keep barrel pointed in a safe direction.
3. To remove the bolt/hammer assembly, first remove the field strip pin. Figure 10 The field strip pin is at the center rear of the receiver and is removed by pulling it out of the left side of the marker.

LUBRICATION

4. Grasp the block assembly and slowly begin to pull the bolt/hammer assembly out of the marker. Figure 11
5. When the bolt/hammer assembly is about halfway out, grasp it with one hand and continue to hold it intact while removing it completely from the marker. Figure 12

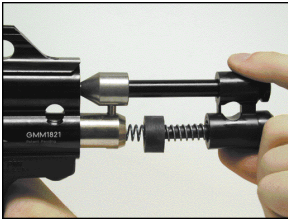


Figure 11



Figure 12 Grasp assembly.

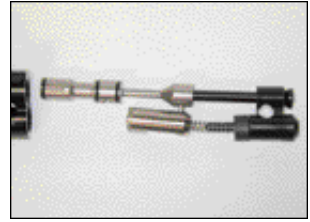


Figure 13 Bolt-hammer assembly removed.

LUBRICATION

It is recommended that a 100% synthetic gun oil, such as PMI Paintball Gun Oil, be used for lubricating the marker.

1. Before each insertion of the removable power source (tank or remote line) into the ASA, clean the threads and put two drops of oil onto them.
2. After removing the bolt/hammer assembly, put a drop of oil onto each o-ring.
3. Before screwing the barrel onto the marker clean the barrel threads.
4. After removing the trigger frame, put a drop of oil onto the pivot points of the trigger and sear.
5. The fastest way to oil the entire Piranha is to take off the barrel; put 4 drops of oil into the ASA, screw the bottle in over the oil, and shoot the gun several dozen times without the barrel.

maintenance and reassembly

REGULAR MAINTENANCE FOR THE PIRANHA™

1. Clean all broken paint out regularly. Do this before you oil the gun.
2. Oil marker each time you play with synthetic gun oil. Not 3-in-1. PMI's new oil works the best.
3. The fastest way to oil your Piranha is to drop three or four drops in the ASA and screw the bottle in over it. Take the barrel off and shoot the gun several dozen times to cycle oil through the gun.
4. Inspect the bolt and hammer o-rings after each time you oil the gun. Make sure they are getting oil.
5. Clean out the powerfeed or vertical feed. Any oil or paint in there will make the gun inaccurate.
6. Never wash the bolt assembly off with water unless you are going to oil them before you reassemble them. Dry before oiling.
7. Check ball retainer every 25,000 shots. Replace if it is worn or broken.
8. Never stretch hammer spring to increase velocity. This will shorten the life span of the spring.

REASSEMBLY PROCEDURE

1. See Figures 15 through 23, which shows the procedure for reassembly of the bolt/hammer assembly. The flush cocking bolt reassembly procedure can be found on the following page.

Once it is reassembled, hold the bolt/hammer assembly in one hand. Figure 24. Push it gently into the marker until it stops sliding forward, which will be about halfway into the body of the marker. Figure 25.

2. Before it stops sliding forward, push the Sear Release Slide button forward. Figure 26. The Sear Release Slide button is located on the left side of the marker near the top of the left grip panel. Continue to press assembly into marker. Pushing the button allows the bolt/hammer assembly to slide easily the rest of the way into the marker.
3. Field strip pin must be inserted into the left side of the marker. Figure 14
4. After reassembly, follow the procedures in this manual for adding power system, loader, and paintballs.



Figure 14

BOLT/HAMMER REASSEMBLY

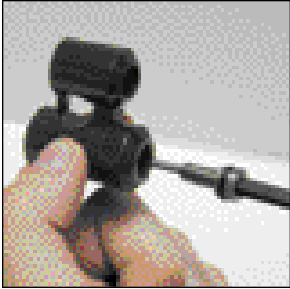


Figure 15



Figure 16

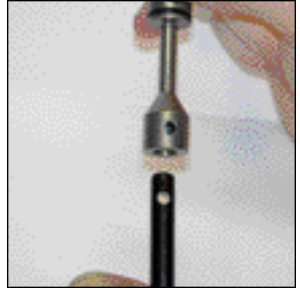


Figure 17



Figure 18



Figure 19



Figure 20



Figure 21

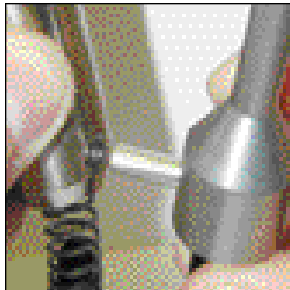


Figure 22



Figure 23

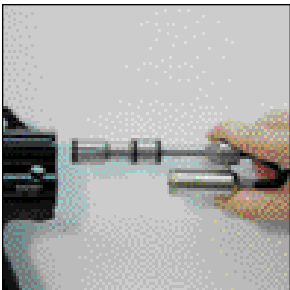


Figure 24

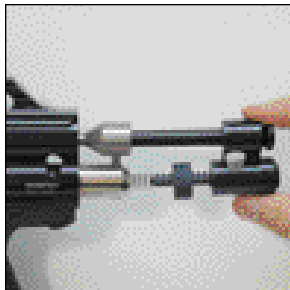


Figure 25

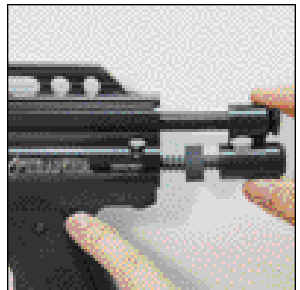


Figure 26

FLUSH COCKING BOLT REASSEMBLY

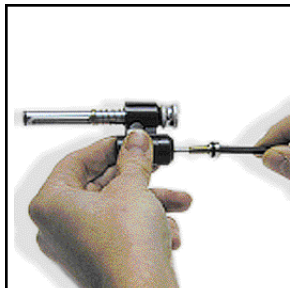


Figure 27

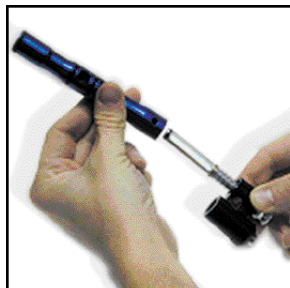


Figure 28



Figure 29



Figure 30



Figure 31



Figure 32



Figure 33



Figure 34



Figure 35



Figure 36



Figure 37



Figure 38

COMPLETE DISASSEMBLY

WARNING

DO NOT ATTEMPT TO COMPLETELY DISASSEMBLE YOUR PIRANHA™ UNLESS QUALIFIED TO DO SO.

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

1. Before disassembling the marker remove the power source, then remove all paintballs from the marker, barrel, and loader.
2. To remove the bottom line air system (if needed), detach the bottom line ASA from the grip by removing the two screws. Figure 39. Then unscrew the port reducer; vertical grip or regulator from the vertical ASA adapter. Figure 40.

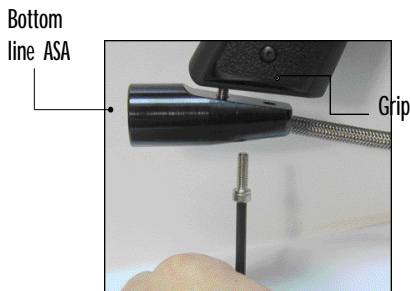


Figure 39

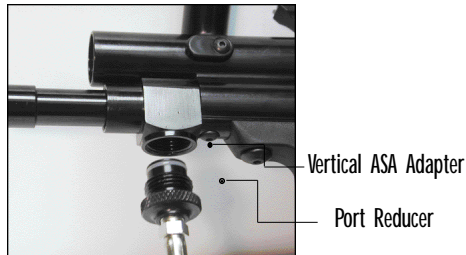


Figure 40

3. To remove trigger frame from the receiver, remove the two large 1/8" socket allen screws under the receiver. One is in front of the trigger guard and one is behind the grip portion of the frame. Figure 41. The receiver then will disassemble from the trigger frame.



Figure 41

Large
Allen Screw

4. To remove the ASA adapter, remove the small allen screw under the receiver. Figure 42. The ASA adapter can then be removed. Figure 43. NOTE: The o-ring on the ASA adapter that, at insertion, contacts the receiver first is white. The other o-ring is black.

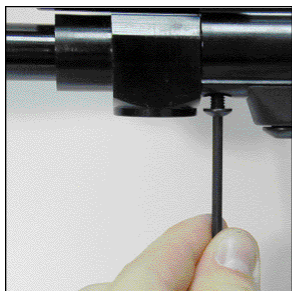


Figure 42

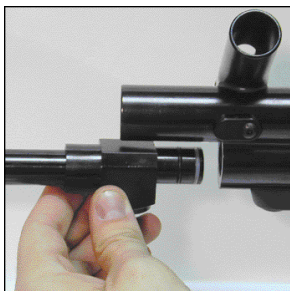


Figure 43

5. To access the valve assembly, remove the valve spring, pin, and guide as in Figure 44. Remove the small brass screw located in the center of the underside of the receiver, Figure 45. To remove or reinsert the valve body, use a flat ended wooden dowel or the eraser end of a pencil to push the valve body out of the front of the receiver, Figure 46.

The valve body must be inserted correctly: note that the hole to the rear of the valve is tapered, and has a black o-ring. The front of the valve has a larger hole, is not tapered, and has a white polyurethane o-ring. Be careful reinserting valve body. Any scratches to the front can cause leaks. The valve pin assembly must be inserted correctly; valve pin must drop down into valve body completely. Valve spring must be centered in bore. **IMPORTANT: Valve body o-rings and front valve portion of the receiver must be well oiled prior to valve body insertion.**

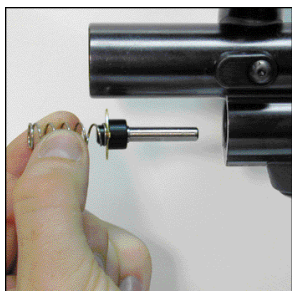


Figure 44

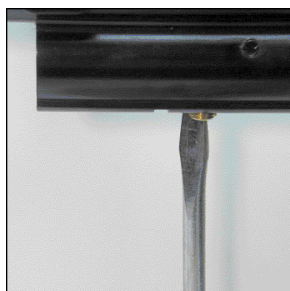


Figure 45

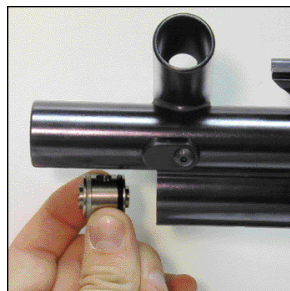


Figure 46

6. Follow the procedures in this manual for adding power system, loader, and paintballs.

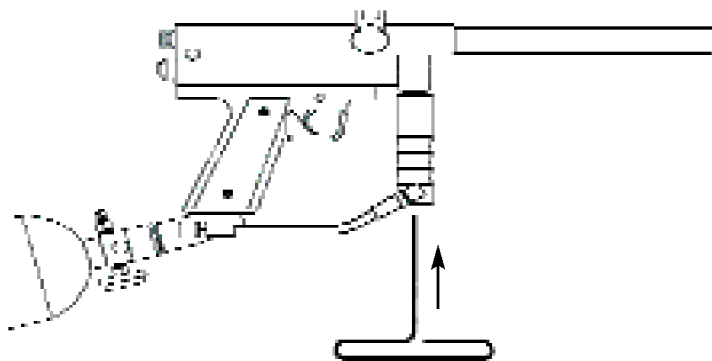
Questions about the operation of the PMI Piranha™ paintball marker may be directed to: Pursuit Marketing, Inc., 500 East Touhy Ave., Unit C, Des Plaines, IL. 60018 USA ; phone 800.579.1633 or buypmi.com for any updates regarding your Piranha™ purchase.

pure energy vertical regulator

The Pure Energy Regulator is a second stage regulator. The internal configuration and spring rates were chosen to optimize the Pure Energy Regulator for input pressures in the 800 to 1200 psi range, and the Pure Energy Regulator's adjustment allows the delivery pressure to the gun to be adjusted anywhere in the 200 to 800 psi range. It is recommended that you use an anti-siphon tank or a remote if you use CO₂ with this regulator. Liquid CO₂ will lead to erratic velocity.

ADJUSTING THE PURE ENERGY REGULATOR

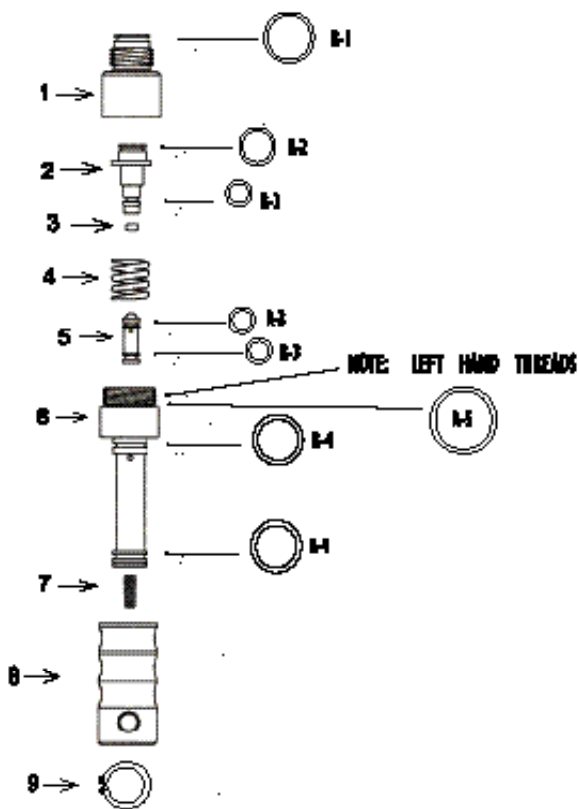
The Pure Energy Regulator is adjusted with a 3/32" Allen Key inserted into the bottom end of the reg. Turning the Allen Key counter clockwise increases output pressure and turning it clockwise reduces the output pressure. It is necessary to cycle the gun, so that the new setting can take effect. Higher output means higher velocity. Lower output means lower velocity but it might mean the marker will have problems properly recocking. **DO NOT EXCEED 300 fps.**



WARNING

The Pure Energy Regulator stays pressurized after the tank is removed. The marker can still fire after the tank is taken off!

PURE ENERGY 2ND STAGE REGULATOR



- 1 Bonnet
- 2 Piston
- 3 Reg Seal
- 4 Mainspring
- 5 Adjusted Slug
- 6 Main Body
- 7 Adjusting Screw
- 8 Outer Sleeve
- 9 Snap Ring
- R-1 015-90 Urethane O-Ring
- R-2 012-90 Urethane O-Ring
- R-3 008-90 Urethane O-Ring
- R-4 013-70 Buna O-Ring
- R-5 019-70 Buna Friction Ring

PLEASE NOTE:

THE THREADS ON THE BONNET & MAIN BODY ARE LEFT HAND THREADS .

TROUBLESHOOTING



WARNING

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

THIS TROUBLESHOOTING GUIDE DOES NOT COVER ALL SITUATIONS AN INDIVIDUAL MAY ENCOUNTER. CONTACT PMI, INC., FOR REPAIR ASSISTANCE AND INFORMATION REGARDING AUTHORIZED PMI PIRANHA™ REPAIR FACILITIES. PHONE 800.579.1633 / BUYPMI.COM

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

BEFORE DISASSEMBLY OF THE MARKER, REMOVE POWER SOURCE; REMOVE ALL PAINTBALLS FROM THE MARKER, BARREL, AND LOADER.

AIR LEAK

Leak in pressure source between tank valve and cylinder

Do not fill cylinder. Immediately take to qualified personnel for inspection. Cylinder must be drained

Leaks down barrel

Check cup seal for wear or grooves. Replace.

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

Leaks at body of marker or heavily down the barrel

Requires removal of valve and inspection of valve o-rings, cup seal, and valve surface. Never use a screwdriver or metal object to remove valve. Use a pencil eraser or other soft instrument.

Leaks at connection between gas-through foregrip & vertical ASA

Remove foregrip unit and check o-rings. Replace with tank o-rings if worn or broken.

TROUBLESHOOTING

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 frame; use center punch to tap pin back into place

Marker runs on (partially cycles more than once when trigger is squeezed)
filled.

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 (35) if needed, using factory o-ring only. A tank o-ring will not work. Use of other than factory o-ring can cause run on. Check that cup seal (8) is snug on valve pin (7).

NOTE: Any PMI Piranha with a regulator will need the regulator adjusted properly to get proper recock out of the marker. Please see page # for instructions how to adjust the regulator.

VELOCITY

Low

Check that air source is adequately filled

Adjust using velocity adjuster

Check that hammer assembly is clean and that there is no debris in the area where bolt/hammer assembly meets the receiver. All o-rings on the assembly must be properly seated.

Low

Change to a stiffer hammer spring

Using velocity

High

Change to a less stiff hammer spring

DO NOT EXCEED 300 FPS VELOCITY.

TROUBLESHOOTING

PAINTBALLS

Not flying straight

Break in Barrel

Do not drop into feed tube

Two shoot at a time

Check for broken paint or oil in barrel, loader, feed tube and chamber. Bolt/ hammer assembly area must also be free of broken paint. Check that marker is not shooting over 300 fps. Disassemble and clean.

Paint loader. If necessary, the loader may need to be replaced.

Shake loader; check loader and feed tube for broken paint

Check for broken paint in the chamber. If necessary, the chamber may need to be replaced.

SHOOT ONLY QUALITY PAINTBALLS. PMI PREMIUM, PMI GOLD TWO-TONE™, PMI EL TIGRE™, PMI ALL STAR™ AND MARBALLIZER™ PAINTBALLS ARE RECOMMENDED FOR USE IN THE PMI PIRANHA™

BARREL

Aftermarket barrel does not tighten

Check to see that the threads on the barrel match, if it is difficult to tighten the threads onto the receiver; if threading is mismatched, barrel is not designed for use with PMI Piranha™.



WARNING

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BEFORE DISASSEMBLY OF THE MARKER, REMOVE POWER SOURCE; REMOVE ALL PAINTBALLS FROM THE MARKER, BARREL, AND LOADER.

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

TROUBLESHOOTING

PURE ENERGY REGULATOR

LEAKAGE AT TOP OR
BOTTOM OF SLEEVE...

MEANS THAT ONE OF
THESE O-RINGS ARE BAD!

LEAKAGE HERE

MEANS THAT THIS O-RING IS BAD!

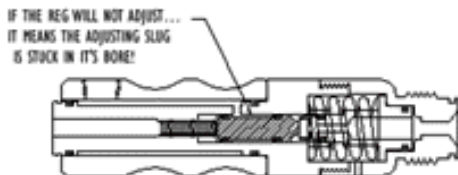
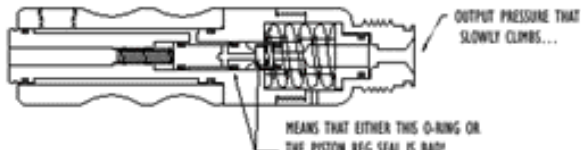
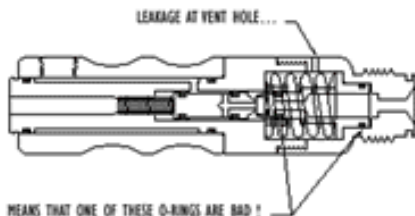
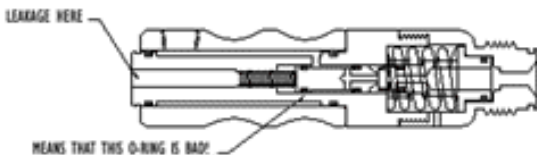
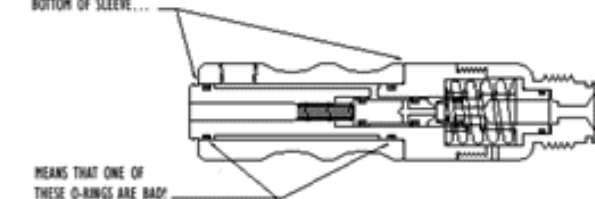
LEAKAGE AT VENT HOLE...

MEANS THAT ONE OF THESE O-RINGS ARE BAD !

OUTPUT PRESSURE THAT
SLOWLY CLIMBS...

MEANS THAT EITHER THIS O-RING OR
THE PISTON REG SEAL IS BAD!

IF THE REG WILL NOT ADJUST...
IT MEANS THE ADJUSTING SLUG
IS STUCK IN IT'S BORE!



WARRANTY

ORIGINAL SALES PURCHASE RECEIPT OR PACKING SLIP

Save your original sales purchase receipt or packing slip. A copy must accompany the warranty card. 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 Piranha™ paintball marker, please re-read the owner's manual carefully. If further assistance is needed, contact PMI, Inc., at 800.579.1633

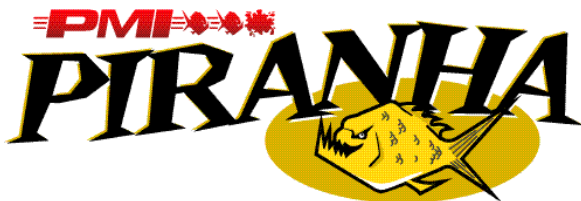
WARRANTY REPAIR RETURN PROCEDURE

A returned product must be accompanied by a Return Authorization (RA) number on the outside of the box; 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 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., 500 East Touhy Ave., Unit C, Des Plaines, Illinois 60018 USA.

OUT OF WARRANTY REPAIRS

Should repairs be needed on a PMI Piranha™ that is out of warranty, contact PMI at 800.579.1633 for information regarding authorized PMI Piranha™ repair facilities.

Any PMI Piranha™ 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.



REPAIR PROCEDURE

Pursuit Marketing, Inc. (PMI, Inc.), extends a warranty to the original purchaser of the PMI Piranha™ paintball marker that the product is free from defects in materials and workmanship for a period of one year 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.), 500 East Touhy Ave., Unit C, Des Plaines, IL 60018 USA; Customer pays shipping charges. Please call PMI, Inc., at 800.579.1633 for information on obtaining warranty service or to obtain a Return Authorization (RA) number before shipping product to PMI, Inc. **Do not mail your gun in without first obtaining an RA number. Please make sure to ship your marker through a shipping company that allows you to track and insure your package. PMI is not responsible for guns that never reach us.**

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 Piranha™ 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 Piranha™ or from any breach of the warranty herein set forth.

WARRANTY REGISTRATION FORM

Please fill out entirely the enclosed PMI Piranha™ Warranty Registration form and mail it to: Pursuit Marketing, Inc., 500 East Touhy Ave., Unit C, Des Plaines, Illinois 60018 USA.

The PMI Piranha™ is a registered trademark. Design rights & all rights reserved. All patterns, drawings, photographs, instructions or manuals remain the intellectual property of the manufacturer. Patents pending. All rights will be strictly enforced.

X-RAY™ GOGGLE SYSTEM

PMI



SEEING IS BELIEVING

The PMI X-Ray Goggle System™ provides a futuristic mask featuring full face and ear protection, making it comfortable to wear and simply awesome in appearance. This PMI product is fully ASTM approved and specifically designed for Paintball use.

www.buypmi.com






AIR
DOMINANCE . . .



THE POWER BEHIND YOUR GAME

www.buypml.com

PMI PLAY PAINTBALL



PMI Piranha™ Paintball Markers
manufactured by:

Pursuit Marketing, Inc.
500 E Touhy Ave. Unit C
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