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Congratulations on your purchase of the Intimidator Paintball Marker. The Intimidator represents the latest in Paintball Marker technology at an affordable price. Before operating your Intimidator, please read the entire manual thoroughly.

WARNINGI

This Paintball Marker is not a toy. Misuse or mishandling can result in serious injury or death. Every person within range of a loaded Paintball Marker must wear eye protection specifically designed for Paintball. Recommended at least 18 years of age to purchase, 14 years old to use with adult supervision or 10 years old to use on Paintball fields meeting ASTM standards F1777-97. Be sure to read the entire instruction manual before operating your Intimidator.

SAFETYI

Please follow all local, state, and federal laws concerning the operation and use of Paintball Markers. **By purchasing this Paintball Marker "YOU" assume all liability.** B.L.A.S.T. assumes no liability for injury or death due to misuse or mishandling of this Marker.

CAUTIONI

Never point a Paintball Marker at anyone not wearing Paintball-Approved goggles. Even at the lowest possible operating velocity, a Paintball will cause serious injury should it hit someone in the eye area.

Never under any circumstances look down the barrel of your Marker. Even if wearing Paintball approved goggles, you should Never look down the barrel.

Before performing any maintenance on the Marker, ensure air source is disconnected and Marker has been degassed. Always ensure Marker is OFF whenever Marker is not operational.

Always insert barrel plug in barrel when Marker is not operational. Remove barrel plug only in designated operational areas.

Only play at commercial playing fields that have a chronograph, referees, and clearly marked safe areas. Chronograph your Marker before each game to ensure Marker is operating at a safe velocity. Safe velocity is considered to be 280 feet per second (fps).

WARNING!

Always ensure Marker is not shooting at a dangerous velocity. Ensure all participants are wearing the proper Paintball safety equipment. You will be held liable if someone is hurt by a Paintball fired from your Marker regardless of fault.

WARRANTU

B.L.A.S.T. warrantees the Intimidator against damages in Manufacturing Defects only. Electrical components are warranted for a period of 90 days. Solenoids are not warranted. When utilizing after market Drop-Forwards ensure attachment bolts DO NOT protrude into internal grip assembly. When utilizing aftermarket grips ensure attachment bolts DO NOT protrude into internal grip assembly. Failure to do so may damage the internals and will result in void of warranty. Use of Teflon tape will void warranty. Aftermarket anodizing will result in void of warranty.

For questions concerning your Intimidator manual please call (925) 625-7929.

OPERATION

The Intimidator Marker is a solenoid controlled open-bolt design. The bolt is locked onto a dual pressurized machined slider that is controlled by the solenoid (An electronic 4-way valve control). The back of the chamber is pressurized to move the bolt forward, and the front is pressurized to move the bolt backward. This allows for very low cycling pressure, as well as much less cocking recoil.

GENERAL DESCRIPTION

The Intimidator is a low pressure operating, open bolt, electronic Marker, featuring microchip managed solenoid control, anti-chop eyes (ACE), dedicated low and high pressure regulators attached to a sculptured regulator mounting block, and unique patent pending modular ram sleeve.

The field strippable pull pin bolt is connected to a dual pressurized sliding ram. This ram is held within the modular sleeve located in the lower tube of the body. The low pressure regulator supplies air through the regulator mounting block to the front barb of the solenoid. Upon activation, the solenoid redirects alternating pressure through the rear barbs, from the chamber in front of the ram to the back chamber behind the ram. The forward shifting ram will then strike the poppet, opening the main valve which releases high pressure regulated air up through the transfer port and into the upper tube of the body. The pull pin connected bolt pushes the paintball into the breech while simultaneously redirecting the charge of air to propel the projectile (paintball) to its target.

INTROPUCTION

The Intimidator is controlled via the MEMBRANE PAD located on the rear of the Trigger Frame. All of the functions of the Intimidator can be easily accessed and changed through the Membrane Pad.

GETTING STARTED

To power up your Intimidator, Press the ON/OFF button. To turn off your Intimidator, press and hold ON/OFF button for approximately 1 second and release. Buttons 1 and 2 allow the user to scroll, select, adjust, and save settings through the menus as well as timer activation, stop and reset. Pressing and holding buttons 1 and 2 simultaneously will open Menu Mode. Once in the Menu Mode, button 1 controls scrolling as well as the adjustments made to settings while button 2 controls selection and saving of menu settings. Every Intimidator is equipped with an LCD screen, located on the side grip panel (left of the membrane pad) which allows the user to verify menu settings along with voltage, timer, shot counter, eye status, tournament lock, and others, depending on the software version installed on the circuit board. A detailed description of each function can be found in the Board Operation section.

NOTE: The Frenzy Board IS NOT Programmable via the trigger.

TRIGGER ADJUSTMENT

The trigger is fully adjustable using the three screws within the trigger. The upper screw controls the return spring tension, the center screw adjusts micro-switch activation point and the lower screw adjusts the trigger stop point.

BARREL

The Intimidator comes standard with a one piece, .689 Bore, 12-inch Assassin barrel. Barrel threads for the Intimidator are Auto-cocker type.

...........Unlimited Semi Mode

. 2 pounds, 1 ounces*

.....(12" barrel) 18.25 inches

SPECIFICATIONS

Model	Empire 2 Intimidator	Cycle Rate
Caliber	68	Effective Range
Action	Electro-Pneumatic	Weight
Air Source	.Compressed Air/Nitrogen	Length
Battery Type	9-Volt Battery	Height

^{*}Weight of Marker without 12" Assassin Barrel is 1lbs., 13oz.

INTROPUCTION (continued)

REGULATOR

Included with the Intimidator are 2 High-Flow Regulators. Both regulators use a standard 3/16 inch hex key for adjustment. Turn the adjustment screw clockwise to increase pressure and counter-clockwise to decrease pressure.

LOW PRESSURE REGULATOR

The low pressure regulator is mounted towards the front of the Marker under the barrel. It controls the cycling pressure of the Marker which is read with the 0-300 PSI Ashcroft gauge located on the left side of the block. The pressure should be set between 55 - 65 PSI. **NEVER EXCEED 100 PSI AS OVER-PRESSURIZING CAN DAMAGE SOLENOID.** The low pressure regulator is not used for velocity adjustments but for cycling pressures only.

HIGH PRESSURE REGULATOR

The high pressure regulator (also called the Torpedo or inline regulator) is the vertical regulator that screws into the bottom of the ASA block. All velocity adjustments are done with the Torpedo regulator. Typically, pressures vary from 200 PSI to 280 PSI depending on chronograph speed. If an aftermarket volumizer is used, the pressure may be lowered accordingly. Please note: The Torpedo high pressure regulator comes with 2 connection ports, 1 dedicated for the air input and the other dedicated for a gauge to monitor pressure levels. To verify that you are connecting an air fitting to the appropriate input port of your Torpedo regulator, the pin valve assembly will be visible within that port prior to installation. The gauge port comes with a plug screw pre-installed from the factory.

AMMUNITION ASPECTS

HOPPER

The Intimidator requires a high feed rate of paintballs to make full use of its features. To satisfy this need, the use of a motorized loader is recommended.

PAINT

Using top grade paint ensures the utmost in performance and accuracy.

OPERATION GAS CONFIGURATIONS

PRESET AND ADVUSTABLE TANKS

A Compressed Air System also known as a Nitrogen Air System is the recommended propellant air source for operating the Intimidator. If you are using an Adjustable Tank, the output should be set between 400 & 500 PSI. Preset Tanks should be low pressure or 400 PSI output, however, a high pressure system is acceptable.

C02

Co2 **IS NOT** the recommended propellant for the Intimidator. You should only use a Compressed Air System to operate your Intimidator. When attaching air system hose fittings to your Marker, **DO NOT** USE TEFLON TAPE. Use a thread sealant such as Loctite 545 instead.

GETTING STARTED

Maintenance for the Intimidator is very simple.

The Bolt should be lubricated sparingly with TRI-FLOW. Lubricating once a day or when dirty will increase the life of the Ball Detents and also eliminate bolt drag.

The Ram or "Hammer" should be greased every 5000 shots with **DOW 55**. First degas your Marker. Next, remove Bolt and Ram Sleeve End Cap and Ram will slide out of the back. Clean inside of Ram Sleeve with a Q-tip, grease O-rings with **DOW 55** and reassemble.

The Low Pressure Regulator Piston and the High-Pressure Regulator Piston O-rings should be greased every 10,000 shots. The final o-ring to lubricate is the Poppet O-ring, located in front of the Ram Sleeve Valve. It is accessed by removing the front Regulator/ASA Block. This should be done every 20,000 shots. Performing this simple maintenance will increase the life of the O-rings and keep the Marker performing at the highest level possible.

NOTE: Always ensure Air Source is disconnected and Marker is fully degassed BEFORE performing any/all maintenance, or when Marker is not operational.

ELECTRONICS

BATTERYINFORMATION

The Intimidator uses a standard 9v battery. To change the battery, remove the Left Rubber Grip Panel, then remove the 4 allen screws securing the two Trigger Frame halves. You'll notice the battery fits into the bottom of the Trigger Frame. Disconnect the old battery and re-connect the new.

WARNING!

At this time it is good to verify screws are not protruding through the bottom of the grip and into the interior components. Failure to do so may result in damage to the battery and/or Circuit Board.

ANTI-CHOP ENES

The Intimidator is the first Production Marker to incorporate a break beam Anti-Chop Eye system in a Production Marker, commonly referred to as the ACE system. The ACE system consists of a set of sensors mounted near the bottom of the breech to restrict firing until a ball is completely loaded into the breech. Always operate the Intimidator with the eyes ON. Failure to do so will more than likely result in broken paintballs in the breech. The Transmitter Eye can be identified by the red and black wires and metal casing. The Receiver Eye can be identified by it's blue and black wires and black plastic casing. Both Eyes run onto a single wiring harness. Always inspect ACE System wiring and harness upon removal to ensure there is no damage present. If there is damage to either the wiring and/or harness the Eyes should be replaced to ensure the ACE system does not fail during operation.

FACTORY SETTINGS

Standard factory FRENZY Board settings are as follows

DWELL 8ms	TIMER 10:0
EYE Delay	DEBOUNCE 12m
BIP 0.5ms	MBOUNCE
BOLT DELAY	DELAY

A detailed description of each function is in the board operation section.

BOARD OPERATION

GETTING STARTED

POWERING UP

- 1. To power up your Intimidator, press the ON/OFF button.
- 2. To turn off your Intimidator, press and hold the ON/OFF button for approximately 1 second. The LCD will display [TURNING OFF] and go blank. Release the ON/OFF Button. Your Intimidator is now OFF.

Once the Marker is powered up, the LCD will display characters representing the status of the Marker. The characters are located on the 2nd line of the LCD and are as follows:

STANDARD OPERATION MODES

- 1 [F] Indicates FORCED Mode
- Indicates DELAY Mode
- Indicates DRY FIRE Mode

(Formerly known as SIMULATION Mode, DRY FIRE Mode Demonstrates how the Marker should operate with an appropriate supply of paintballs and fully charged air system.)

NON-STANDARD OPERATION MODES

- Indicates EYE SENSOR MALFUNCTION*
- 5. [L] Indicates COMPETITION Mode is ON
- 6. [B] Indicates BATTERY IS LOW

(*Once an Eye Sensor Malfunction occurs, Marker will be limited to 12bps)

Views of each mode selection on the Circuit Board can be seen below.



FORCED Mode

EYE-SENSOR Malfunction





COMPETITION LOCK







BATTERYLOW

BOARD OPERATION

SETTINGS/MODE SELECTION (Version EMPIRE 1.5 PRENZY only)

The LCD is a Two-Button Membrane and Menu driven system. To bring up menu options for the Marker, press and hold down Buttons 1 and 2 for approximately 1 second. Upon release you will be taken to the first menu. Button 1 scrolls through the available menus. Button 2 is for entering a selected menu. Once inside of a given menu, pressing Button 1 will change the current setting within that menu incrementally. Pressing Button 2 will save the current setting and instantly exit the Menu Mode. The Marker will now fire using the latest selected modes. Below are descriptions of the different modes and how they affect the Marker's performance.

PWEW - Determines how long the bolt remains in the forward position before repeating cycle.

EVE - Activates or Deactivates the ACE System with the following options:

FORCE - Marker fires only when ball is present at time of trigger pull.

PELAY - Marker fires when ball is present at time of trigger pull. However, if a ball IS NOT present or detected, the Marker will wait 1 second before firing.

PRYFIRE - ACE System is Bypassed (OFF) and Marker fires at time of trigger pull.

NOTE: Eye setting can be changed to dry fire mode without entering the menu. With the Marker OFF, hold trigger in and turn Marker ON until the LCD goes to its normal screen and S is on the bottom left of the screen, now release trigger. This will set the Marker to Dry Fire Mode with the eye sensor off. This function is disabled with Competition Lock.

BIP (Ball in Place) - Determines how long after a Trigger Pull and Ball Detection, the Marker will fire.

CAUTION: Setting too low may induce ball breakage.

 $\ensuremath{\textit{CAP}}$ - Time eye sensor is ignored. This time allows Bolt to move forward.

Caution: Setting too low may cause Marker to dry fire.

TIMER - Determines game timer setting.

PEBOUNCE - Determines (in milli seconds) how long after each trigger pull, the board will ignore further trigger activity.

MBOUNCE - Mechanical Bounce setting is used to stop Marker's recoil from causing an added shot. O deactivates, while higher numbers decrease sensitivity of mechanical bounces occurring.

PEIAY - Delay is used to slow down the Marker's cycling speed. The higher the number, the slower the Marker will cycle.

COMPETITION VOCK - With Competition Lock **ON**, Dwell, Delay, Debounce, and M-Bounce Menus are not accessible. All other Menus are accessable as usual, however, the trigger activated Dry Fire Mode is disabled. When Competition Lock is active, the display window of the LCD will show [L] as the second character on the 2nd line. (Marker is not BPS capped while using Competition Lock)

SETTINGS/MODE SELECTION (continued)

Liquid Crystal Display (LCD) - When the Marker is on, the LCD will display codes representing the status of the Marker. The codes are as follows on the 2nd line of the LCD screen:

7. [C] - Capped to 15BPS: All modes

8. [A] - Full Auto

9. [R] - Ramping

10. [S] - Semi-automatic

11. [3] - 3 Shot burst

12. [B] - Indicates battery is low.

PSPICAR - This setting will turn on/off the PSP 4 shoot before ramp mode and/or capped rate of fire.

NpspNcap= Can ramp after first trigger pull and cap is OFF.

Npsp cap= Can ramp after first trigger pull and cap is ON and set to the CAP BPS setting.

PspNcap= Can ramp after fourth trigger pull and cap is OFF.

Psp cap= Can ramp after fourth trigger pull and cap is ON and set to the CAP BPS setting.

NOTE: Ramping is set by Comp Mode. Full auto always uses the PSP 4th shot rule.

CAP BPS - Is used to adjust max rate of fire between 10 & 18 Balls per sec. Must activate cap to use this setting.

MBOUNCE - Mechanical bounce setting is used to stop markers recoil from causing an added shot. "O" deactivates and higher numbers decrease sensitivity of mechanical bounces happening.

COMP MODE - This menu allows you to change trigger response modes.

FUN AUTO - Marker fires one ball at the time of trigger pull unless trigger is rapidly pulled and released more than 4 times in a second then holding in trigger will result in the marker shooting fully automatically.

RAMP 3 - Marker fires one ball at the time of trigger pull unless trigger is rapidly pulled then may shoot 3 balls. Ramping based on time between trigger pulls and Ramp BPS setting.

RAMP 2 - Marker fires one ball at the time of trigger pull unless trigger is rapidly pulled then may shoot 2 balls. Ramping based on time between trigger pulls and Ramp BPS setting.

3 SHOT - Marker can fire 3 balls per trigger pull.

2 SHOT - Marker can fire 2 balls per trigger pull.

SMARTRAMP - Marker fires one ball at the time of trigger pull unless trigger is rapidly pulled then may shoot 2 or 3 balls. Ramping based on time between trigger pulls and Ramp BPS setting. The faster the trigger is pulled the more aggressive the ramp.

SEMI AUTO - Marker fires one ball at the time of trigger pull.

COMPETITION LOCK

ACTIVATING COMPETITION LOCK

- 1. Turn Marker OFF.
- 2. Open up Trigger Frame to gain access to the Circuit Board.
- 3. Short out C and D Terminals (holes) of the top of the board. Paper clips work well for this. Bend the clip so that one end is touching the D and the other end is touching C.
- 4a. Turn Marker ON.
- 4b. The display window will show "Comp On" then in the normal window the display will show [C]. (see figure 8)
- 5. Turn Marker OFF.
- 6. Disconnect the D and C short and leave off for at least 30 seconds.
- 7. Reassemble Trigger Frame.
- 8. Ready to use with COMPETITION LOCK.

To turn OFF Competition Lock follow the same procedure. When not activated the display will not show [C] on the LCD.

For information and instructions regarding previous and/or future versions of the FRENZY Board (Other than version 116.2), please refer to separate instructions sheet included in box.



Turn Marker OFF



Follow all the steps to set Mode to COMPETITION LOCK



Short out C and P Terminals





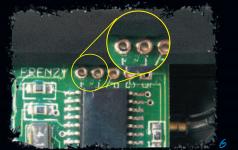








COMPETITION LOCK Active



Short out C and D Terminals

ASSEMBLY & DISASSEMBLY

GETTING STARTED

WHEN PISASSEMBUNG THE INTIMIPATOR, AUWAYS ENSURE THE MARKER IS PEGASSEP.

The DISASSEMBLY portion of this manual will be divided into three sections.

I. TRIGGER FRAME PISASSEMBLY
II. REGULATOR PISASSEMBLY
III. BOPY PISASSEMBLY

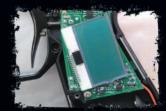
NOTE



Separate Trigger Halves



Remove Battery



Remove Board Retaining Screws



Flip Board, Remove Membrane



Disconnect Battery Harness

1. TRIGGER FRAME PISASSEMBLY (continued)

- 7. Disconnect Eye Sensor Wire Harness and remove Board.
- 8. Lift out Hose from around Hose Guard.
- 9. Remove 2 Trigger Assembly retaining screws.

 Ensure both washers are installed during assembly.

- 10. Separate Trigger Frame from Body Assembly.
- 11. Remove Shouldered Trigger Retaining Screw and lift out Trigger and Trigger Return Spring.
- 12. Remove 2 Trigger Guard Screws to remove Guard.



Lift Out Hose From Guard





Remove Frame Mounting Screws



Pisconnect Eye Harness, Remove Board

Separate Frame From Body



Remove Trigger & Spring



Remove Trigger Guard

ASSEMBLY & PISASSEMBLY

II. REQUIATOR PISASSEMBLY

ASA BLOCK/HOUSING

PRST: Remove Both Regulators & Front Hose.

- 1. Remove Air Barb from Regulator Base (ASA Block.*)
- 2. Remove Regulator Base Retaining Screw from Body.
- 3. Slide Regulator Base from Body.
- *Use great caution when Removing or Reinstalling Air Barbs as they are somewhat delicate. Air Barb on front Block must be removed in order to gain proper access to Regulator Base Retaining Screw. Failure to do so may result in damage to the Air Barb.



Remove Air Bart From ASA Block



Remove ASA Block From Body



LOW PRESSURE REGULATOR (LPR)

- 1. Unscrew Allen Adjuster.
- 2. Unscrew Adjustment End (Part 2) from ASA End (Part 10) of Low-Pressure Regulator.
- 3. Remove Regulator Spring Washer.
- 4. Remove Regulator Spring.
- 5. Remove Piston.
- 6. Remove Pin Valve Retainer.
- 7. Remove Teflon Washer.
- 8. Remove Pin Valve.
- 9. Remove Spring from Upper Regulator Housing.
- 10. ASA End of (LPR) Low-Pressure Regulator Housing.



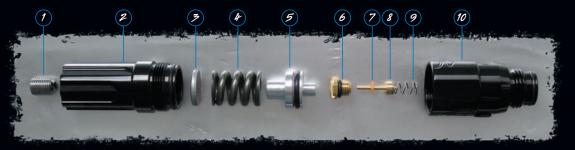
low-Pressure Regulator

II. REQUIATOR PISASSEMBLY (continued)

TORPEDOIHIGH PRESSURE REGULATOR (UPR)

- 1. Unscrew Allen Adjuster.
- 2. Unscrew Lower End of (HPR) High-Pressure Regulator Housing.
- 3. Remove Regulator Spring Washer.
- 4. Remove Regulator Spring.
- 5. Remove Piston.

- 6. Remove Pin Valve Retainer.
- 7. Remove Teflon Washer.
- 8. Remove Pin Valve.
- 9. Remove Spring from Upper Reg. Housing.
- 10. Upper End of (HPR) High-Pressure Regulator Housing.



low-Pressure Regulator

NOTE: At this time the Regulators are disassembled. Listed below are key elements to remember during assembly.

- 1. Piston: Ensure cupped end of Piston is facing towards Pin Valve.
- Pin Valve: Ensure Pin Valve is not bent and seats in cupped end of Piston. Failure to do so will cause Regulators to function improperly.
- **3. Air Barb:** Ensure fiber washer is on Air Barb base when installing. This will ensure Air Barb does not leak.
- 4. Poppet Spring Attachment: Ensure small end of Spring sits firmly on Poppet.
- **5. ASA Block**: Place small portion of Loctite on Retaining Allen when installing. This will ensure ASA (regulator) Base does not work itself loose during operation.

ASSEMBLY & DISASSEMBLY

III. BODY PISASSEMBLY

PRST: Ensure Barrel is removed from Marker Body.

- 1. Remove Center Hose.
- 2. Remove Rear Hose.
- 3. Remove both Eye Sensor Covers (one on each side) by removing Retaining Screw.
- 4. Remove both Eye Sensors (one on each side) by carefully pulling sensor heads from mounting holes.
- 5. Lift up on Bolt Retaining Pin and slide Bolt out of rear of Marker.
- 6. Remove Ram Sleeve Cap located at the rear of Marker. (turn counter-clockwise).
- 7. Turn Marker up and allow ram to slide out of Marker rear. Place hand underneath to catch ram. Do not allow ram to fall freely onto ground or any other hard surface.
- 8. Turn Body over to gain access to the bottom of the Marker Body.



Remove Center Hose



Remove Eyes



Remove Rear Hose



Lift Bott Pin & Remove Bott



Remove Eye Covers



Remove Ram Cap

III. BODY PISASSEMBLY (continued)

- 9. Remove Air Barb from Center of Ram Sleeve. Do not lose fiber washer at base of Air Barb.
- 10. Remove Air Barb Block from Rear of Body. Separate carefully so as not to lose the O-ring.
- 11. Remove Ram Sleeve retaining allen.
- 12. Remove the Ram Sleeve from the body. During removal, rotate the Ram Sleeve right and left while pulling towards the rear of the Marker carefully so as to avoid cutting the O-ring.
- 13. Loosen Valve from Ram Sleeve using a 3/8" Socket.
- 14. Remove Valve from Ram Sleeve.
- 15. Remove Poppet from Ram Sleeve.
- 16. Remove Feednack Collar.
- 17. Remove feedneck Base.



Remove Ram



Remove Center Barb



Turn Body Over



Remove Rear Air Barb Block



Remove Ram Sleeve Retaining Allen



Loosen Valve Using 3/8" Socket



Remove Poppet



Remove FeedneckBase



Remove Ram Sleeve



Remove Valve



Remove Feedneck Collar

At this time the Body is disassembled. Visted on the following page are key points to remember during assembly.

ASSEMBLY TIPS

KEY ELEMENTS TO REMEMBER PURING ASSEMBLY.

O-RINGS - LUBRICATE ALL O-RINGS UPON INSTALLATION.

AIR BARB5 - Ensure fiber washer is on Air Barb base prior to installation. This will ensure a proper seal.

Always ensure that Valve is free of debris prior to installation. Failure to do so may result in incosistent operation. Use a small amount of Loctite on threads when threading Valve Body onto Ram Sleeve. Failure to do so may result in Valve coming loose causing extreme damage to the Marker

RAM SUEEVE O-RINGS - Always ensure all O-Rings are in good condition upon installation.

RAM SIEEVE INSTAUATION - The Ram Sleeve should be reinserted through the rear of the marker body. Use caution when installing the Ram Sleeve and take extra care not to cut/damage the O-Rings on the sharp edges of the body as you insert it.

RAM SIEEVE RETAINING AUEN - Use small amount of Loctite on Retaining Allen when installing. Failure to do so may result in Ram Sleeve sliding back, causing extreme damage to the Markerand/or possibly injuring the operator.

POPPET INTAUATION - Before installation, inspect Poppet thoroughly. If Poppet shows signs of excessive wear, it must be replaced in order to ensure a proper seal. Ensure Poppet and Cup Seal O-Rings are well lubed when installing. Ensure spring seats firmly on Poppet head before inserting into Ram Sleeve. Once seated tap on Poppet end to mate Poppet with valve.

REQUIATOR BASE RETAINING AVEN - Use small amount of Loctite on ASA Housing Retaining Allen when installing. Failure to do so may result in ASA Block sliding off the Marker Body, causing extreme damage to the Marker and/or possibly injuring the operator and others. A firm snug is all that is required to maintain a secure fit.

ENSOR HARNESS - Ensure Harness is seated in grove provided before attaching Eye Covers. Failure to do so may result in pinched wires and render the eyes inoperable.

EXECUTE: - Ensure Ball Detents remain aligned and in Covers upon install. Do not over tightenthe cover screws. A firm snugg is all that is required to maintain a secure fit.

FEEDNECK - Removal of the Feedneck Base may require the use of a Strap Wrench since it is firmly secured during initial assembly. Simply wrap the Strap around the Feedneck and turn counter-clockwise. To Reinstall, apply a decent amount of Loctite and simply screw the Feedneck back onto the body and secure firmly using a Strap Wrench.

NOTE: Once Marker is completely disassembled, carefully inspect all Screws, O-Rings, Ball Detents, Air Barbs, Hoses, Eye Sensors, Wiring, Electronics, Battery, ASA Block, Regulator, and Feedneck Threads, etc., for signs of premature or excessive wear, stripping and/or damage.

If ANY parts show signs of premature or excessive wear, stripping and/or damage, and you need to order them, please refer the the chart on the facing page for reference. A more detailed discription of parts and/or the corresponding PART NUMBER(S) can be found in the COMPLETE PARTS CHECKLIST located on the inside back cover of the manual. Simply call B.L.A.S.T. at the number provided and a Customer Service Representative will assist you.

MAINTÉNANCE GENERALMAINTENANCE

WARNINGI

NEVER use lightweight gun oil on Marker Oil will destroy internals of Air Valve and O-rings.

Keep foreign obstructions out of Marker internals and Lube all O-rings within the Marker using a generous coat of **Dow 55** Lubricant. The Ram requires Lubing every 5,000 rds. fired. Regulator O-rings should be Lubed every 10,000 rds. fired. Failure to do so will reduce recovery time of Regulators. Additionally, the Piston will wear a groove in the Regulator housing. Ensure the Pin Valve lines up with the Cupped End on the Piston during reassembly. This will eliminate the inadvertent bending of the pin. The Poppet O-rings require Lubing every 20,000 rds. fired.

Below is a list of the most common Consumable Components of the Intimidator.

COMPONENT	QUANTITY	517E
Body Assembly		
Bolt O-ring Poppet O-ring Ram Front O-ring Ram Rear O-ring	4 1 1 1	015 006 006 011
Pressurized Ram Sleeve O-rings Sleeve End Cap O-ring	1 1	015 016
Regulator Assembly		
HPR Housing O-ring HPR Piston O-ring HPR Pin Valve Base Washer HPR Pin Valve Washer (Teflon) LPR Piston O-ring LPR Pin Valve Base LPR Pin Valve Washer (Teflon) LPR Regulator Base O-ring (Round) LPR Regulator Base O-ring (Square) Regulator Base	1 1 1 2 1 1 1 2	015 113 010 006 011 010 006 020 114 015
Trigger Assembly		
Airline Airline Airline	1 to regulator base 1 to middle body 1 to rear body	5.0 in. 5.0 in. 2.5 in.

TROUBLESHOOTING PARST: Refer to Assembly/Disassembly to perform repairs indicated below.

PROBLEM	PIAGNOSIS	REPAIR
Upon airing up the Marker, air seeps freely and Valve will not close	Cup Seal O-ring is is dry, causing Cup Seal to stick in the head of the Valve Cup Seal O-ring is damaged or worn	Push Bolt Forward rather firmly several times, compressing the Valve Spring to free Cup Seal Replace Cup Seal O-ring
Marker leaks down Barrel	 Poppet is not sealing Ram Sleeve O-rings are damaged Poppet O-ring is damaged 	Replace Poppet Replace Ram Sleeve O-rings Remove LPR Block and replace Poppet O-ring
Marker leaks from inside Trigger Frame	Air Hose has become disconnected Hose Barb has come loose or is broken	Open Trigger Frame and reconnect Hose Tighten or Replace Air Barb
Marker is pressurized and will not fire	 Dwell is to low LPR too low Pinched Hose Debris in Solenoid Check shot counter If Board is counting, it is possible the Solenoid connector is disconnected or damaged. 	 Check Dwell and Reset to Factory Settings Check LPR Gauge. Pressure should be between 70-80 PSI. Open Frame and check hoses Push Reset Button on Solenoid when Marker is pressurized. If Marker does not fire call B.L.A.S.T. If Board is not counting it is the Micro-Switch Open Trigger Frame and check Solenoid connection
Inconsistent Velocity	 High Pressure Regulator Piston is dry Dwell too low Large Ram O-ring (011) is worn. LPR Pressure too low Paint does not fit Barrel 	 Lube Piston with DOW 55 Check Dwell and set to Factory Settings Replace 011 O-Ring Check pressure and reset to 70-80 PSI Use appropriate size paintball.

PROBLEM	DIAGNOSIS	REPAIR
LPR spikes	 Large Square Edged O-ring on LPR base is bad Regulator Seat is bad Brass Nut isn't tight enough 010 O-ring on Brass Nut is worn or damaged 	 Replace O-ring Replace regulator seat Tighten Brass Nut Replace O-ring
Marker fires with low first shot	Low dwell High-Pressure Regulator is spiking, over pressurizing valve chamber	Check Dwell and reset to Factory Settings Check output pressure of High-Pressure Regulator
Marker dies off with rapid fire	Preset tank pin valve is depressed too far or not enough starving Marker of air LPR pressure too low	Check depth of Pin Valve Check LPR pressure
Marker is Breaking paint	 Eyes are turned off and/or damaged Missing or worn ball detents Paint to large for barrel Using brittle paint in cold weather 	 Check and make sure Eyes are ON and/or operational Replace Ball Detents Size paint for Barrel Use winter-fill paint in winter or heat your paint
Eyes fail when in delay	 Eyes misaligned Dirty Eyes Pinched or cut wires Bad Eye(s) 	 Check Eye Alignment Clean Eyes Open and inspect Eye Wires and Eye Harness Wires Replace Bad Eye(s)
Marker fires on pull & release	1. Faulty Micro-Switch	1. Call B.L.A.S.T. for assistance
Marker leaks from Solenoid	Marker is over pressurized Foreign material has lodged inside Solenoid	Check LPR. It should be between 70-80 PSI. It is not recommended to disassemble solenoid. Call B.L.A.S.T. for assistance

O-RING & SIZE	006	006 (Polyurethane)	010
QUANTITY	3 Per Marker	2 Per Marker	2 Per Marker
PESCRIPTION	1 Poppet Shaft O-ring 1 Ram FRONT O-ring 1 Air Barb Block	Teflon Regulator Seat Washer	Brass Nut O-ring for Low-Pressure Regulator & High-Pressure Regulator (1 each)
O-RING & SIZE	011	112	113
QUANTITY	5 Per Marker	1 Per Marker	2 Per Marker
PESCRIPTION	1 - Ram REAR 2 - Ram Sleeve Cap 2 - LPR Piston (Low-Pressure Regulator)	REAR Ram Sleeve O-ring	Brass Nut O-ring for Low-Pressure Regulator & High-Pressure Regulator (1 each)

0-RING & 517E	114	115	015 (U-Cup)
QUANTITY	1 Per Marker	7 Per Marker	1 Per Marker
PESCRIPTION	LPR Base "Square Cut" Outer Most O-ring	LPR Base "Square Cut" Outer Most O-ring	FRONT Ram Sleeve O-ring
O-RING & SIZE	118	020	016
QUANTITY	1 Per Marker	1 Per Marker	1 Per Marker
PESCRIPTION	Torpedo Lower End O-ring	LPR Base Inner Most O-ring	Ram Sleeve Cap Securing O-ring (Sits On Outside Of Ram Sleeve)

SCREW SIZER LIDENTIFYER 4/40 x 1/4 6/32 x 3/16 4/40 x 1/4 3/32 x 7/16 4 Per Marker (Stainless Steel) 2 Per Marker (Stainless Steel) 6 Per Marker 2 Per Marker 4 - Trigger Frame Screws Trigger Frame Trigger Frame Rubber Grip Screws 2 - Trigger Gaurd Screws Mounting Screw Washers Mounting Screws 0/80 x 3/8 4/40 x 1/4 6/32 x 1/2 8/32 x 1/4 1 Per Marker (Stainless Steel) Center Trigger Upper Trigger Upper Circuit Board Lower Circuit Board Adjustment Screw Adjustment Screw Retaining Screw Retaining Screw (Adjusts Micro-Switch) Activation Point (Adjusts Return Spring Tension)

SUREM & SITE	6/32 x 3/16	8/32 x 9/16 (Shouldered)		 2/56 x 1/4	10/32 x 1/2
QUANTITY	1 Per Marker (Stainless Steel)	1 Per Marker (Stainless Steel)	2 Per Marker	1 Per Marker	1 Per Marker
PESCRIPTION	Lower Trigger Adjustment Screw (Adjusts Trigger (Travel Stop Point)	Trigger Mounting Screw (Secures Trigger to frame)	Eye Cover Securing Screws	1 Per Marker	Retaining Set Screw for Bolt Pull Pin
SCREW & STPE	3/8 x 24 x 1/2	1/8 x 27	3/8 x 24 x 3/8	3/8 x 24 x 3/8	3/8 x 24 x 3/8
QUANTITY	1 Per Marker	1 Per Marker	1 Per Marker	1 Per Marker (Stainless Steel)	1 Per Marker (Stainless Steel)
NOSTRIPTION	ASA Block Set Screw	HPR Gauge Port PLug	Ram Sleeve Set Screw	LPR Pressure Adjustment Screw	HPR Pressure Adjustment Screw

PARTS CHECKUST

- 1. LPR Adjustment Screw
- 2. LPR Front End Cap
- 3. LPR Spring Washer
- 4. LPR Spring
- 5. LPR Piston
- 6. LPR Piston O-Rings (011)
- 7. LPR Brass Nut (2 per marker)
- 8. LPR Brass Nut O-ring (010)
- 9. Regulator Seat Washer (006)
- 10. Regulator Pin Valve (2 per marker)
- 11. Pin Valve Spring (2 per marker)
- 12. LPR Housing/Base
- 13. LPR Inner Base O-ring (020)
- 14. LPR Outer Base O-ring (114)
- **15.** ASA Block/Housing
- 16. LPR Pressure Gauge (Not Pictured)
- 17. Air Barbs & Washers (6 per marker)
- 18. ASA Block O-rings (015)
- **19.** HPR Upper Housing
- 20. HPR Gauge Port Plug
- **21.** HPR Piston O-ring (113)
- 22. HPR Piston
- 23. HPR Spring

- 24. HPR Spring Washer
- 25. HPR Lower Housing
- **26.** HPR Adjustment Screw
- 27a. Feedneck Collar
- 28. Marker Body
- 29. Ball Detent (2 per marker)
- 30. Eye Sensors (2 per marker)
- 31. Eye Covers (2 per marker)
- **32.** Eye Cover Retaining Screws
- **33.** ASA Housing Retaining Screw
- **34.** Ram Sleeve Retaining Screw
- **35.** Barb Block O-ring (006)
- **36a.** Left Side Trigger Frame
- **36b.** Right Side Trigger Frame
- 37. Grip Mounting Screws
- 38a. Left Rubber Grip Panel
- **38b.** Right Rubber Grip Panel
- **39.** Frame Mounting Screws
- **40.** Frame/Gaurd Assembly Screws
- 41. Trigger Gaurd
- 42a. Trigger
- 42b. Shouldered Trigger Screw

- 27b. Feedneck Base
- **43.** Return Spring Tension Screw
 - 44. Microswitch Activation Screw
 - 45. Trigger Travel Stop Screw

42c. Trigger Ball Bearings

- **46.** Trigger Return Spring
- 47. Upper Board Retaining Screw
- 48. Lower Board Retaining Screw
- 49. Frenzy Board
- 50. Membrane Pad & Ribbon
- **51.** Battery & Solonoid Harness
- 52. Solonoid
- **53.** Bolt
- 54. Bolt Pin
- **55.** Bolt Pin Retaining Bearing
- 56. Bolt Pin Tension Spring
- **57.** Bolt Pin Tension Set Screw
- **58.** Poppet Spring

- **59a.** Poppet Cup Seal

- **61.** Poppet O-ring (004)
- **62.** Front Ram Sleeve O-ring (015)
- 63. Ram Sleeve
- **64.** Front Ram O-ring (006)
- 66. Ram Bumper
- 67a. Ram Sleeve Cap
- **68.** Valve

- **59b.** Poppet Cup Seal O-ring
- **60.** Poppet Shaft

- 65. Ram/Hammer
- 67b. Ram Adjustment Screw
- **69.** Solonoid Hosing
- 70a. Rear Air Barb Block
- 70b. Air Barb Block Screws

