



VICTUS<sup>®</sup>

overpower | conquer | succeed



BOB LONG  
technologies

## INTRODUCING THE G.I. SPORTZ VICTUS

*The G.I. Victus was created in collaboration with Bob Long – Domestic Gun Developer for the last 20 years. The Marker was designed to give its user the fastest rate of fire while shooting the most delicate of paintballs. The easy to remove bolt engine encases the most efficient gas design combined with the lightest construction. The marker was designed to drive its user to Overpower, Conquer, and Succeed! Each G.I. Victus was designed and manufactured in the USA. Every Marker comes encased in a padded marker bag, designed with the utmost functionality that includes a 3 sized barrel backs, G.I. Tool kit, G.I. Battle Grease, Victus Parts Kit and quick start card. Each GI Victus will be supported by GI Sportz directly. We commit to fully support each marker and its user with a 1 Year Warranty, Easy access to replacement parts, online up to date manuals, tech videos to assist in any troubleshooting or maintenance along with Tech Support at most major events.*

## WARRANTY

G.I. Sportz warrants our paintball markers to be free from defect in materials and workmanship for a period of 1 year from purchase date. This warranty will only be honored for the initial retail purchaser and is nontransferable. Wear items such as batteries and seals are not covered under warranty.

This warranty does not cover:

- Any system failure resulting from the use of a non-authorized propellant. The only authorized propellants are nitrogen or compressed air.
- Surface damage such as scratches, nicks, or dings.
- Improper disassembly or re-assembly.
- Improper lubrication. The only authorized grease for maintaining a Victus marker is G.I. Sportz Battle Grease. Authorized oil is limited to Tri-flow® or any other synthetic oil made specifically for maintaining a paintball marker.
- Modification or any other alteration of a marker or its parts is prohibited.
- Misuse of any conceivable kind.

This warranty is limited to repair or replacement of defective items with the initial retail purchaser to pay shipping costs. The Initial purchaser must register the marker upon purchase by filling out the online “Warranty Registration Form”. The Marker Warranty is valid only with Warranty Registration.

The Marker must be registered with G.I. Sportz via the online Warranty Registration Form located at [www.gisportz.com/victus](http://www.gisportz.com/victus) for the marker to be voted under the 1 year Warranty.

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# WARNING

## important safety instructions and guidelines

### **WARNING**

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 marker.

### **SAFETY**

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. G.I. Sportz and B.L.A.S.T. assume no liability for injury or death due to misuse or mishandling of this Marker.

# WARNING

## important safety instructions and guidelines

### CAUTION

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 Blocking Device 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).

# QUICK REFERENCE

## SAFETY

Always use proper safety equipment and observe the rules for the locations where you play. Always use a barrel blocking device when in an area where people do not have their masks on. Before each day of play ensure that all parts are functioning correctly and ensure that you comply with the rules and safety briefing of your local paintball fields

## INSTALLING AIR TANK



The Victus requires the use of compressed air, commonly referred to as High Pressure Air (HPA). Use of a low output pressure compressed air system is required. If using an adjustable-output air system, **set the system's output between 450 and 550 psi. IF INPUT PRESSURE IS HIGHER THAN 550 PSI, MARKER CAN AND WILL LEAK!** Make sure the ASA (Air Source Adapter) is in the off position by turning the chrome cam drive knob located on the bottom of the ASA counter clockwise. Attach your compressed air tank by screwing it into the ASA. When you are ready to chronograph your marker turn the cam drive knob clockwise until it completes turning – this is shortly after you hear air pressurizing the marker.

# QUICK REFERENCE

## TURNING ON THE VICTUS



Press and release the power button on the back of the grip frame to turn the marker ON. The OLED display on the back of the marker will show the remaining battery capacity, firing mode, and other settings. A full explanation of the firing modes and board settings is available in the Frenzy 5 manual available at [www.gisportz.com/victus](http://www.gisportz.com/victus). To power OFF marker: Press and hold the power button until the countdown appears on the screen. Once it counts 3..2..1..OFF release the power button.

## ADJUSTING VELOCITY



The regulator on the Victus should be adjusted at the chronograph of your field before you begin play. The regulator is adjusted using a 1/8" hex wrench to turn the screw located at the bottom of the in-line regulator. Turning the screw clockwise (or inward) will increase your velocity; turning the screw counterclockwise will decrease your velocity. Only turn the wrench 1/8th - 1/16th of a turn with each adjustment.

# TRIGGER

## adjustment and maintenance

The Victus comes with a roller bearing trigger, which you can adjust for the feel that is most comfortable with your style of play. To simplify maintenance the trigger can be removed from the marker while the grip frame is attached.

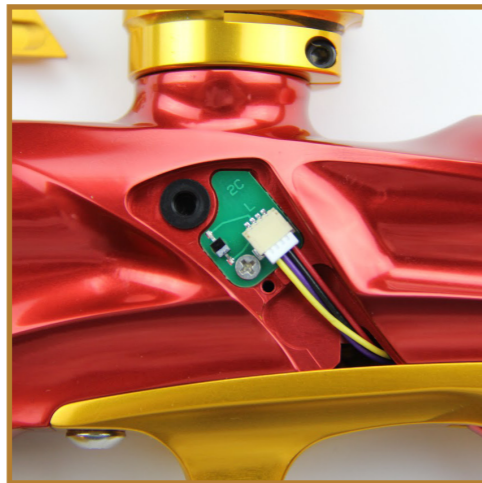
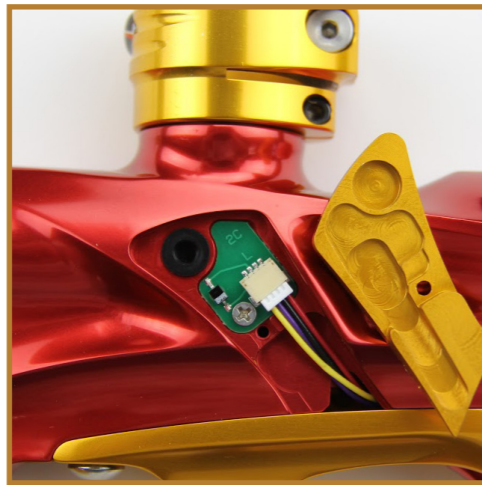


- 1 The Victus has two adjustment screws. The bottom screw is for trigger post-travel and the top screw adjusts the activation point (where the marker fires). To adjust the screws insert a hex key and turn the screw. Clockwise will bring the firing point towards the front of the pull and counter clockwise will bring the firing point further back in the trigger pull. The screws have Loctite on them from the factory to prevent the adjustment from slipping so a firm, steady pressure is needed for the initial adjustment.
- 2 To remove the trigger begin by removing the trigger pivot pin.
- 3 If the trigger spring encounters resistance when partially removed it may be catching on the micro switch of the control board. Simply push up on the spring with a hex key and it will slide free.
- 4 Use swabs dipped in alcohol to clean any residual paint or grime from the trigger area. If necessary open the grip panels and clean inside the frame as well.
- 5 When reinstalling the trigger press up on the spring slightly to prevent snagging the microswitch.

# EYES AND DETENTS

## maintenance

In the event of a chopped ball or debris in the breach, the eyes in your Victus may need cleaning.



- 1 Remove the eye cover screw using a 5/64" hex wrench, then remove the eye cover. Remove the detent spring and set it somewhere where it will not roll away.
- 2 Remove the detent by pressing on the detent from inside the chamber.
- 3 Using a Phillips Head Screwdriver, carefully unscrew the PCB retaining screw.
- 4 Gently tilt the eye PCB away from the body of the marker.
- 5 Use a cotton swab to clean the surface of the eye, the eye holes, detent and detent hole. Dampen the swab with alcohol if necessary.
- 6 NOTE: When removing the eyes from the wiring harness, unplug the harness from the eye PCB by pulling on the white plug and NOT the wires. Pulling on the wires could potentially damage your harness.
- 7 After the eye, detent, and mounting area have been sufficiently cleaned, reinstall the PCB and reinstall the PCB retaining screw and eye cover.

# REGULATOR

## maintenance


Your Victus comes equipped with the best regulator on the market. To ensure the highest consistency and maximum flow possible, G.I. Sportz recommends that you clean and lubricate it according to the maintenance schedule or when inconsistency is encountered. The regulator will typically perform flawlessly for many cases of paintballs before requiring any maintenance.

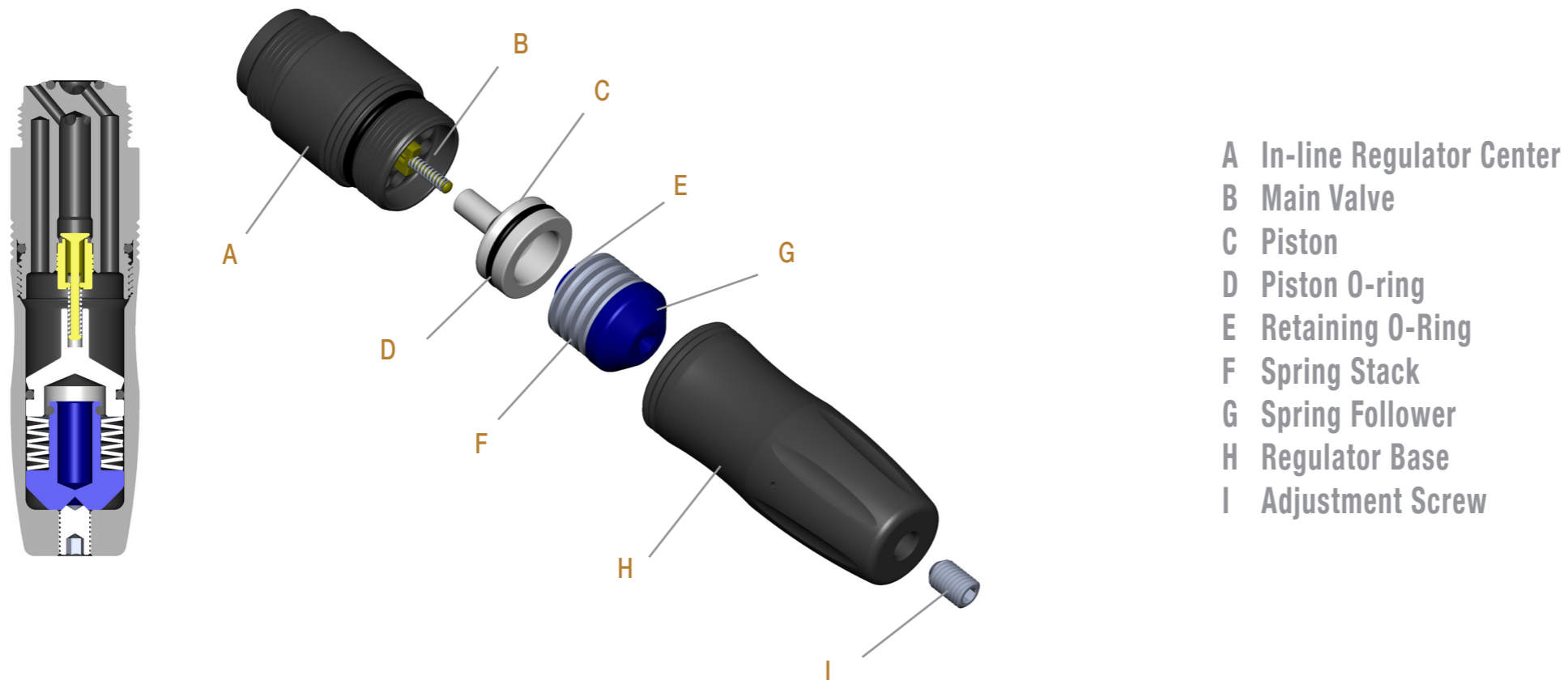


- 1 De-gas the marker and ensure that there are no paintballs in the breech or barrel of the marker.
- 2 Unscrew the bottom half of the regulator from the marker. Note that the top half is factory tightened and should NOT be removed.
- 3 Reach into the regulator base with tweezers or needle nose pliers to remove the regulator piston.
- 4 After the piston is removed, turn the regulator base upside down and tap the spring stack and spring follower into your hand. The picture to the right shows the regulator body, spring stack and piston.
- 5 The main valve located in the top portion of the regulator which is still connected to the marker, does not need to be removed from the marker body or serviced. Never replace or attempt to service a working main valve.

# REGULATOR

## maintenance

- 6 Inspect the surface of the piston and piston O-ring for excessive wear or nicks and replace as necessary.
- 7 Inspect the interior walls of the regulator base. Use a swab on the interior of the regulator base to clean debris and old grease.
- 8 When reassembling the spring follower (spring stack assembly), make sure that the top and bottom spring washers curve to the outside. The retaining O-ring does not require lubrication. If in doubt, just stack the spring washers like this: )000(  

- 9 There is a concave area around the piston O-ring that holds additional lubricant and reduces the need for frequent maintenance. Grease the piston O-ring with a thin coat of lubricant, which fills the concave area.
- 10 Reassemble the regulator by gently replacing the spring follower (spring stack assembly) and piston into the regulator base.



# ENGINE

## removal and disassembly

Before removing the engine from the marker, remove the hopper and air source. Then turn off the control board.



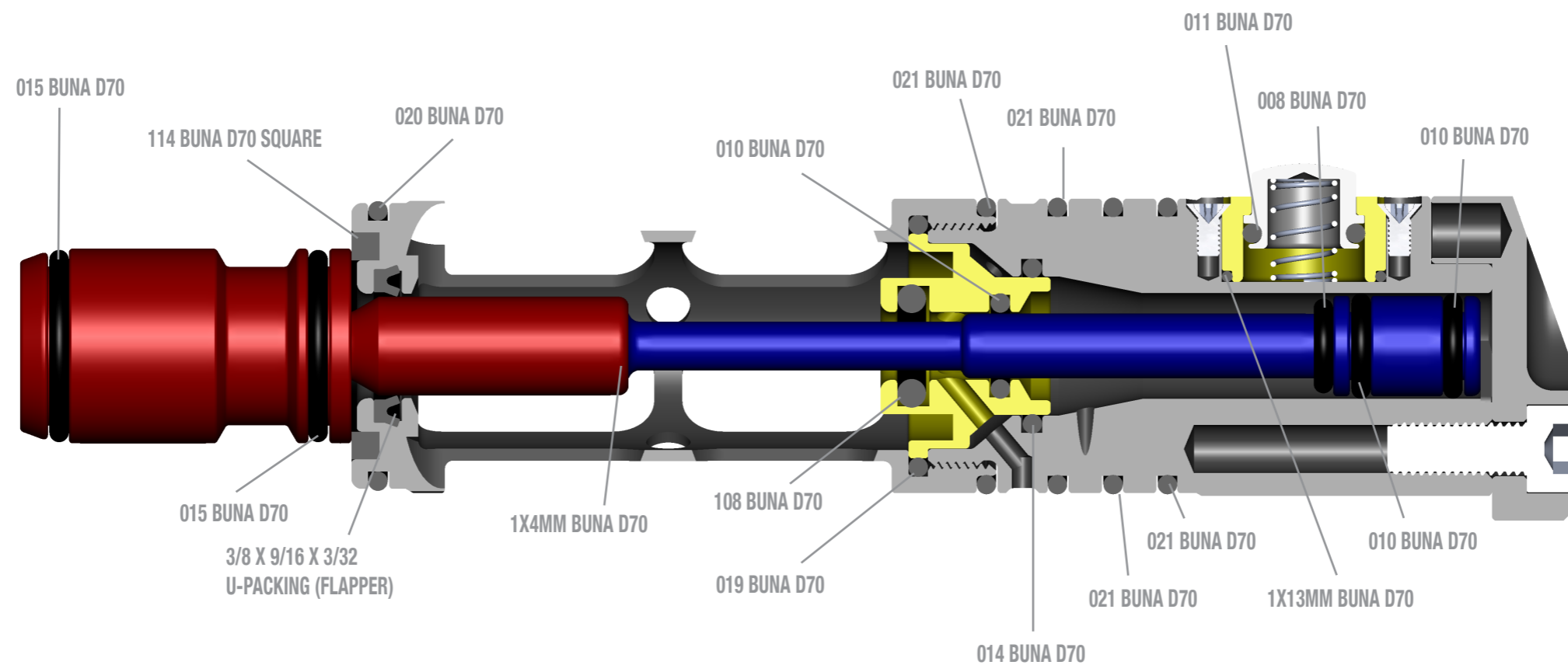
- 1 Remove the engine by depressing the gas interlock button on the top of the marker body and then sliding it to the rear.
- 2 Once the engine is removed, slide the bolt to the front.
- 3 Unscrew the volume chamber from the ram housing.
- 4 All of the moving O-rings can be lubricated without further disassembly. The picture at the bottom of the page shows the O-ring locations. For normal maintenance, it is not necessary to remove the back block cap.
- 5 Wipe off any debris or old lubricant from the engine.
- 6 Place a light film of G.I. Sportz Battle Grease on the shaft and where it is exposed. Slide the bolt back and forth to lubricate the internal O-rings.
- 7 Place a light film of G.I. Sportz Battle Grease on the external O-rings except for the bolt.
- 8 Place a drop of Tri-Flow on each bolt O-ring.
- 9 If the front and rear engine pieces were disassembled, screw them back together, making sure to have the 021 O-ring in place between the two parts.

# ENGINE

## section views

The Victus engine is designed for easy, tool free routine maintenance. O-rings should not be replaced unless there is a problem with operations. Not all of the O-rings in the engine are the standard round size and shape found in other markers. In order to ensure the continuous high performance of your Victus, use replacement O-ring kits direct from G.I.Sportz or from authorized G.I.Sportz dealers.

### O-RING LOCATIONS

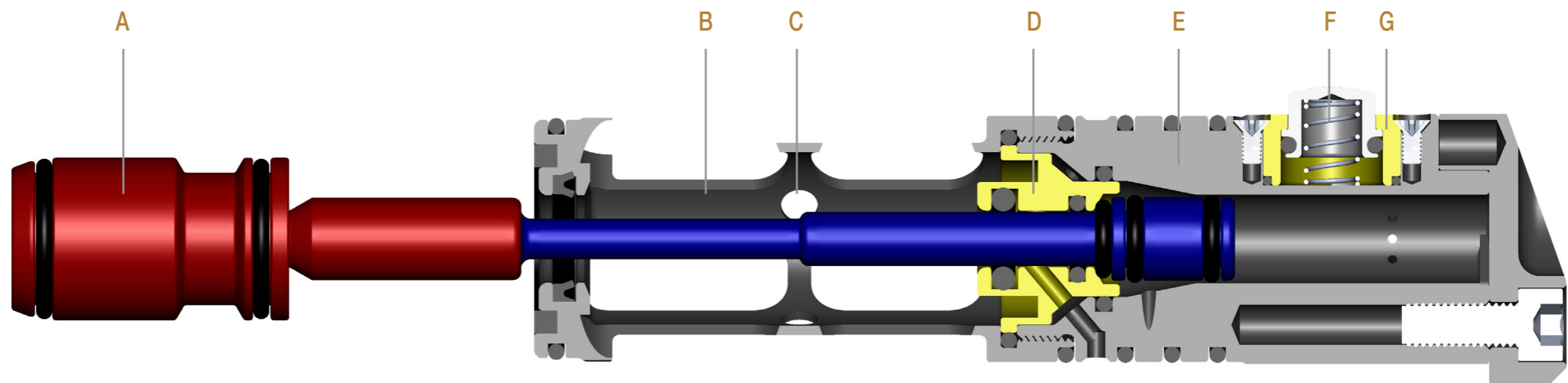


# ENGINE

## components

The cutaway view shows the engine components with the bolt in forward and retracted positions.

- A Bolt
- B Ram Shaft
- C Volume Chamber
- D Refill Plug (Brass)
- E Ram Housing
- F Gas Interlock Button
- G Gas Interlock Housing (Brass)



# MAINTENANCE INTERVALS

AMOUNT OF TIME ESTIMATED	CASES OF PAINT	RECOMMENDED UPKEEP
After a day of play	1-2 Cases	<ul style="list-style-type: none"><li>- Repeat above steps</li><li>- Wipe down marker outside</li><li>- Clean and re-lube engine</li></ul>
After a Weekend	2-4 Cases	<ul style="list-style-type: none"><li>- Repeat above steps</li><li>- Inspect O-rings for damage</li><li>- Inspect eye area for debris</li></ul>
A Month	10 Cases	<ul style="list-style-type: none"><li>- Repeat above steps</li><li>- Clean, inspect, and grease HPR Piston O-ring</li></ul>

# PARTS LIST

## O-RINGS

PART NAME	SPECIFICATIONS	QUANTITY
Ram Housing to Back Block Cap - - - - -	1 x 2mm Buna D70 - - - - -	1
Mainbody to Solenoid Manifold - - - - -	1 x 3mm Buna D70 - - - - -	2
Grip Frame to Mainbody - - - - -	1 x 4mm Buna D70 - - - - -	1
Ram Shaft to Pillow Bolt (For Friction Only) - - - - -	1 x 4mm Buna D70 - - - - -	1
Cam Drive ASA to Grip Frame - - - - -	1 x 4.5mm Buna D70 - - - - -	1
Mainbody to Solenoid Manifold - - - - -	1 x 4.5mm Buna D70 - - - - -	1
Mainbody to Solenoid Manifold - - - - -	1 x 7.5mm Buna D70 - - - - -	1
Mainbody to Solenoid Manifold - - - - -	1 x 9mm Buna D70 - - - - -	1
Ram Housing to Gas Interlock Housing - - - - -	1 x 13mm Buna D70 - - - - -	1
Inside Mainbody to Inline Reg Center - - - - -	-1.5 x 20mm Buna D70- - - - -	1
Outside of Ram Shaft (Bumper) - - - - -	008 Buna D70 - - - - -	1
Inside of Refill Plug - - - - -	010 Buna D70 - - - - -	1
Outside of Ram Shaft - - - - -	010 Buna D70 - - - - -	2
Inline Reg Center to Mainbody - - - - -	011 Buna D70 - - - - -	1
Outside of Gas Interlock Button - - - - -	011 Buna D70 - - - - -	1
Outside of Inline Reg Spring Follower (Retains Bellville Washers of Spring Stack) - - - - -	011 Buna D70 - - - - -	1
Inside of Ram Housing - - - - -	014 Buna D70 - - - - -	1
Outside of Pillow Bolt - - - - -	015 Buna D70 - - - - -	1
Outside of Inline Reg Piston - - - - -	016 Buna D70 - - - - -	1
Inline Reg Center to Inline Reg Base - - - - -	018 Buna D70 - - - - -	1
Inside of Volume Chamber - - - - -	019 Buna D70 - - - - -	1
Volume Chamber to Mainbody - - - - -	020 Buna D70 - - - - -	1
Between Ram Housing and Volume Chamber - - - - -	021 Buna D70 - - - - -	1
Outside of Ram Housing - - - - -	021 Buna D70 - - - - -	3
Inside of Refill Plug (Refill Mainseal)- - - - -	108 Buna D70 - - - - -	1
Pillow Bolt to Volume Chamber Bumper - - - - -	-114 Buna D70 Square- - - - -	1
Inside of Volume Chamber (Spool Valve Mainseal) - - - - -	-3/8 x 9/16 x 3/32 D70 U-Packing - - - - -	1



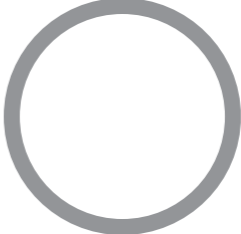




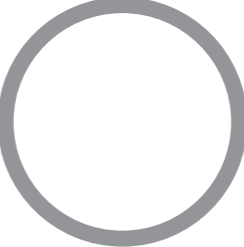


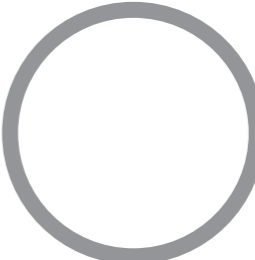


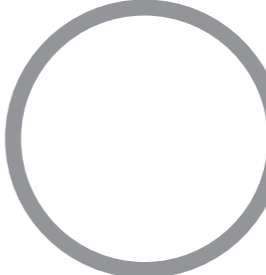



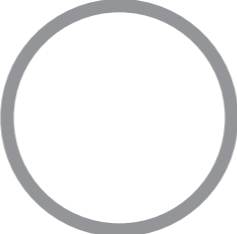
# PARTS LIST

## FASTENERS

PART NAME	SPECIFICATIONS	QUANTITY
Motherboard to Grip Frame Mounting Screw	M2 x 4mm Pan Head Machine SS	1
Motherboard to Grip Frame Mounting Screws	M2 x 10mm Pan Head Machine SS	2
Gas Interlock Housing to Ram Housing	2-56 x 3/16" Flat Head Machine SS	2
Left Eye PCB to Mainbody	2-56 x 3/16" Flat Head Machine SS	1
Right Eye PCB to Mainbody	2-56 x 3/16" Flat Head Machine SS	1
Daughterboard to Grip Frame Mounting Screws	2-56 x 3/16" Socket Head Cap SS	2
OLED Bezel to Grip Frame Mounting Screws	2-56 x 3/16" Socket Head Cap SS	2
Left Eye Cover to Mainbody	2-56 x 3/16" Socket Head Cap SS	1
Right Eye Cover to Mainbody	2-56 x 3/16" Socket Head Cap SS	1
Leverlock Feed Neck to Mainbody	4-40 x 7/16" Socket Head Cap BO	1
Left Grip to Grip Frame Mounting Screws	6-32 x 1/4" Low Head Socked Cap SS (Custom 5/64" Hex Drive)	3
Right Grip to Grip Frame Mounting Screws (9v Battery Access)	6-32 x 1/4" Low Head Socked Cap SS (Custom 5/64" Hex Drive)	3
Trigger Activation Adjustment	6-32 x 1/4" Cup Point Socket Set SS	1
Trigger Stop Adjustment	6-32 x 1/4" Cup Point Socket Set SS	1
Cam Drive ASA to Grip Frame	8-32 x 3/8" Low Head Socket Cap SS (Custom 3/32" Hex Drive)	2
Front Grip Frame Mounting Screw	10-32 x 1/2" Button Head Socket Cap SS	1
Rear Grip Frame Mounting Screw	10-32 x 3/8" Low Head Socket Cap SS (Custom 1/8" Hex Drive)	1
Back Block Cap to Ram Housing	10-32 x 1/2" Socket Head Cap SS	1
Solenoid Manifold to Mainbody	10-32 x 1/2" Socket Head Cap SS	1
Inline Reg Base (Velocity Adjustment)	1/4-28 x 3/8" Cup Point Socket Set SS	1

# O-RINGS

## size table

1x2mm		008		018	
1x3mm		010			
1x4.5mm		011		019	
1x4mm		014		020	
1x7.5mm		015		021	
1x9mm		016			
1x13mm					
1.5x20mm					

# FRENZY 5.0 OLED

## board instructions

### POWER MARKER ON

- Press and hold power button for 1 full second.
- Home screen will then appear.
- Release power button.

### POWER MARKER OFF

- Press and hold power button to begin power-off countdown immediately.
- Screen will then read 3... 2... 1... Power then shuts off, screen goes blank.
- If power button is released before countdown sequence completes, home screen regenerates as if power button had never been pressed.

### POWER EYES OFF

- Eyes always default to “On” when marker is powered “On”
- Pull and hold trigger until eye indicator disappears to power eyes “Off”
- Pull and hold trigger once again until eye indicator reappears to power eyes back “On”

### EYE INDICATOR

- Numeric display, located just left of the eye indicator, displays either “2C” or “4C”, depending on which type of eyes are currently installed.
- Eye indicator upper 50% lights when top eye sensor detects a presence.
- Eye indicator lower 50% lights when bottom eye sensor detects a presence.
- The eye indicator will continuously flash “X” if any sensor, or communication pathway, throughout the entire eye system is obstructed or fowled for any reason.
- Once our program detects the eye system is fowled, the program will immediately default the maximum ROF (rate of fire) to 11 BPS. This slower BPS (ball per second) rate will help minimize paintball breakage due to improper staging.
- The eye indicator will continue to flash until eye obstruction or lack of communication has been resolved in full.

# FRENZY 5.0 OLED

## board instructions

### TOURNAMENT LOCK

- Power marker on.
- Press and release tournament lock button.
- Current setting will appear for 1 full second and then return to home screen.
- Each press of the tournament lock button will toggle from “Lock on” to “Lock off” displaying the setting chosen by user.

### ENTER MAIN MENU

- Power marker off.
- Pull and hold trigger while pressing power button for 1 full second.
- Main menu will appear displaying the current software version.
- Release trigger to reveal the first menu category, firing mode.

### EXIT MAIN MENU

- Power marker off.

### MAIN MENU CATEGORIES

#### FIRING MODE

- Semi-automatic, Uncapped
- Semi-automatic, Cap Adjustable
- 3-shot Burst, Uncapped
- 3-shot Burst, Cap Adjustable
- Full-automatic, Uncapped
- Full-automatic, Cap Adjustable
- PSP 3-shot, Cap Adjustable
- PSP Ramp, Cap Adjustable
- Millennium Ramp, Cap Adjustable

# FRENZY 5.0 OLED

## board instructions

### MAIN MENU CATEGORIES CONTINUED

#### RATE OF FIRE CAP

- 1 to 20 BPS

#### GAME TIMER

- 1 to 90 minutes

#### DEBOUNCE

- 1-50mS (1mS increments)

#### MECHANICAL DEBOUNCE

- 1-5

#### TRIGGER SWITCH FILTER

- 1-50

#### DWELL

- 1 to 16ms (0.5mS increments)

#### CALIBER

- 68 Caliber (default setting)
- 50 Caliber (re-configures 4C Eyes to function with .50 caliber paintballs)

#### BOLT DELAY

- 1 to 25mS (1mS increments)

#### TEXT ORIENTATION

- Right Hand Text (reads top to bottom)
- Left Hand Text (reads bottom to top)

#### FACTORY RESET

- Reset NO
- Reset YES

# FRENZY 5.0 OLED

## board instructions

### GAME TIMER

- Game timer may only be operated from the home screen.
- Game timer will always begin countdown from numeric value chosen within the timer menu.
- To initiate the game timer, double click the power button.
- Game timer will then begin flashing the current numeric value.
- Count down will begin immediately at first trigger pull by user.
- To exit the game timer and return to home screen, double click the power button once again.
- Home screen will then return back to standard display of current firing mode.

### BATTERY METER

- Battery meter displays 6 bars of power at the crest of battery strength.
- Entire battery meter will flash continuously once down to only 1 bar of power.
- Battery meter will continue to flash until low strength battery has been replaced.

### BPS READOUT

- Achieved BPS registers immediately after users shot string.
- 3 seconds after last shot, BPS readout automatically resets to "00" value.

# TROUBLESHOOTING GUIDE

## **MARKER WILL NOT TURN ON OUT OF THE BOX**

- Ensure that the battery that you're using in your marker is a high quality alkaline or lithium 9 volt.
- Verify that your battery is correctly oriented (matching with the correct terminals), and that it is making firm contact with the prongs on the circuit board.
- Make sure that the wiring harness is correctly inserted into the receptacle.

## **VELOCITY IS INCONSISTENT OVER THE CHRONOGRAPH**

- Always check that your paintballs are of high quality, and consistent in size, as well as using a good paint to bore match.
- Make sure the HPR is set to the proper pressure.
- Replace your battery.
- Inspect the engine O-rings for nicks and that they are properly greased.

## **MARKER IS BREAKING PAINT**

- Always check that your paintballs are of high quality, and consistent in size, as well as using a good paint to bore match.
- Make sure the regulator is not set to an excessive pressure.
- Ensure that your detent springs and bolt face are in good condition and there is no debris in the breech of the marker.
- Reset your board settings to factory settings and use a force-fed loader.
- Check the tension/pressure settings and batteries in your force fed loader. Having too high of a feed pressure with fragile paint can cause balls in the stack to break.

## **MARKER DOES NOT GAS UP AFTER TANK IS CONNECTED**

- Verify that the pin valve on your tank is outputting pressure to the regulator - some tanks will not work properly with certain ASA's.
- Attempt gassing up the marker with another tank to see if this remedies the issue.

# TROUBLESHOOTING GUIDE

## **MARKER IS LEAKING FROM THE ASA**

- Check the tank O-ring (015 Urethane D90) for nicks or tears.
- Verify that the ASA is securely attached to the grip frame.

## **MARKER DISPLAY IS DIM OR INCORRECT WHEN TURNED ON**

- Verify that your battery is correctly oriented (matching with the correct terminals), and that it is making firm contact with the prongs on the circuit board.

## **MARKER FIRES MORE THAN ONE SHOT PER PULL, OR HAS TRIGGER BOUNCE**

- Verify that your trigger has the spring installed and that it is properly seated.
- Verify that your marker is in semi-automatic mode.
- Raise your marker's debounce level and make sure that your trigger activation point is not too short.

## **MARKER LEAKS DOWN THE BARREL**

- Verify that the poppet seal, inner volume chamber O-ring and blast guide are not scored or otherwise damaged.

## **MARKER DOUBLE FEEDS**

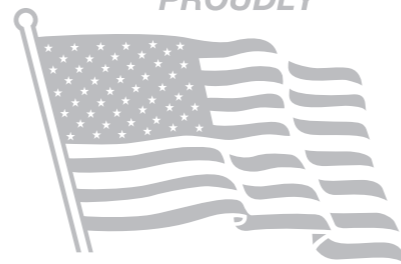
- Verify that detent springs are in place, detents are not excessively worn, they have a drop of oil and move freely.

FIND OUT MORE



[www.gisportz.com/victus](http://www.gisportz.com/victus)

*PROUDLY*



*MADE IN THE USA*