READ THIS MANUAL CAREFULLY BEFORE USING YOUR ETEK EGO.
WARNINGS: ADHERE STRICTLY TO THESE AND ALL OTHER SAFETY INSTRUCTIONS AND GUIDELINES.

- The Etek Ego is not a toy.
- Careless or improper use, including failure to follow instructions and warnings within this User Manual and attached to the Etek Ego could cause death or serious injury.
- Do not remove or deface any warnings attached to the Etek Ego.
- Paintball industry standard eye/face/ear and head protection designed specifically to stop paintballs and meeting ASTM standard F1776 (USA) or CE standard (Europe) must be worn by user and any person within range.
- Persons under 18 years of age must have adult supervision when using or handling the Etek Ego.
- Use only professional paintball fields where codes of safety are strictly enforced.
- Use compressed air/nitrogen only. Do not use CO₂.
- Always follow instructions, warnings and guidelines given with any first stage regulator you use with the Etek Ego.
- Use 0.68 calibre paintballs only.
- Do not fire the Etek Ego without the bolt in the breech, as high-pressure gas will be emitted.
- Do not fire the Etek Ego without the bolt pin locked securely in place.
- Never look into the barrel or breech area of the Etek Ego whilst the marker is switched on and able to fire.
- Never put your finger or any foreign objects into the paintball feed tube of the Etek Ego.
- Never allow pressurised gas to come into contact with any part of your body.
- Always switch off the Etek Ego when not in use.
- Always fit a barrel-blocking device to the Etek Ego when not in use on the field of play.
- Always remove all paintballs from the Etek Ego when not in use on the field of play.
- Always remove the first stage regulator and relieve all residual gas pressure from the Etek Ego before disassembly.
- The Etek Ego can hold a small residual charge of gas, typically 2 shots, with the first stage regulator removed. Always discharge the marker in a safe direction to relieve this residual gas pressure.
- Always remove the first stage regulator and relieve all residual gas pressure from the Etek Ego for transport and storage.
- Always follow guidelines given with your first stage regulator for safe transportation and storage.
- Always store the Etek Ego in a secure place.

NOTE: This User Manual must accompany the product in the event of resale or new ownership. Should you be unsure at any stage you must seek expert advice (see service centers).

This section names the component parts of the Etek Ego Marker. This section is essential reading for everyone.

- GET TO KNOW YOUR ETEK EGO
- THE ETEK EGO CONTROL CONSOLE

This section provides details on how to get up and running quickly with your Etek Ego. This section is essential reading for everyone.

- INSTALLING A BATTERY
- SWITCHING ON THE ETEK EGO
- SWITCHING OFF THE ETEK EGO
- FIRING THE ETEK EGO
- USING THE ETEK BREAK-BEAM SENSOR SYSTEM

This section provides more detailed information on how to use and interact with the Etek Ego via its user interface.

- SETTING UP
- INSTALLING A PRESET AIR SYSTEM
- INSTALLING AN ADJUSTABLE AIR SYSTEM
- ATTACHING A LOADER
- SWITCHING ON
- THE CONTROL CONSOLE
- UNDERSTANDING THE BBSS OPERATION
- ADJUSTING VELOCITY
- ADJUSTING THE LPR PRESSURE

This section contains in-depth information on setting up the Etek Ego.

- SETTING THE TRIGGER
- THE TOURNAMENT LOCK
- THE SET-UP MENU
- THE MODIFYING PARAMETER
- THE MODE PARAMETER
- MAXIMUM RATE OF FIRE (CAPPED MODES)
- MAXIMUM RATE OF FIRE (BBSS DISABLED)
- DEBOUNC
- THE BALL DETECTION TIME
- THE RESET PARAMETER

This section acts as a guide to performing routine maintenance.

- CLEANING THE BREAK-BEAM SENSOR SYSTEM
- STRIPPING AND CLEANING THE IN-LINE REGULATOR
- STRIPPING AND CLEANING THE LPR
- CLEANING AND LUBRICATING THE RAMMER
- HOW TO STRIP THE ETEK EGO
- ASSEMBLING THE ETEK EGO
- CLEANING THE BOLT
- STRIPPING AND CLEANING THE BOLT AND VALVE

This section is essential reading for everyone.

- THE ETEK EGO CONTROL CONSOLE
- THE ETEK BREAK-BEAM SENSOR SYSTEM
- USING YOUR EGO

This section acting as a guide to performing routine maintenance.
FAULT FINDING
This section provides information on how to resolve any problems that might arise with your Etek Ego.

SERVICE CENTRES
This section provides information on the location of your nearest Etek Ego Service Centre.

PARTS LIST
This section provides a table of components that make up the Eclipse Ego.

WARRANTY CARD
Tear-out product registration card to be completed and returned to Planet Etek. Alternatively register online at www.planeteclipse.com

ACCESSORIES
Available upgrade / repair kits for your Etek Ego.

This Users Manual is in English.
It contains important safety guidelines and Instructions.
Should you be unsure at any stage, or unable to understand the contents within this manual you must seek expert advice.

Le mode d’emploi est en Anglais.
Il contient des instructions et mesures de sécurité importantes.
En cas de doute, ou s’il vous est impossible de comprendre le contenu du monde d’emploi, demandez conseil à un expert.

Este manual de (operarios y) usuarios está en Inglés.
Contiene importantes normas de seguridad e instrucciones.
Si no está seguro de algún punto o no entiende los contenidos de este manual debe consultar con un experto.

Diese Bedienungs- und Benutzeranleitung ist in Englisch.
Sie enthält wichtige Sicherheitshinlinien und -bestimmungen.
Sollten Sie sich in irgendeiner Weise unsicher sein. Oder den Inhalten dies heftes nicht vertrauen, lassen Sie sich bitte von einen Experten beraten.

For Your records
Please complete the details to keep a permanent record of your purchase of an Etek Ego. Please note, the form is intended for your personal records only, and will not act as a suitable warranty card for your purchase. Please complete the warranty card provided in the manual or the online warranty form, which can be found at www.planeteclipse.com to validate your Etek Ego warranty.

PRODUCT PURCHASED
COLOUR
DATE OF PURCHASE
PURCHASED FROM
PURCHASE PRICE
SERIAL NUMBER

FOR YOUR RECORDS

VİSİTİ www.PLANETECİPLİSE.coM
GETTING TO KNOW YOUR ETEK EGO.
THE ETEK EGO CONTROL CONSOLE

At the rear of the Etek Ego's grip frame you will find both the Select push button and the User Interface Display (UID) which combine to form the Etek Ego's Control Console. The Control Console is used for several different purposes including:

- TURNING THE ETEK EGO ON AND OFF USING THE SELECT PUSH BUTTON.
- DISPLAYING THE VALUE OF PARAMETERS USING THE UID.
- SELECTING AND EDITING PARAMETERS USING THE SELECT PUSH BUTTON.
- DISPLAYING THE BATTERY LEVEL USING THE UID.
- TURNING THE BBSS ON AND OFF USING THE SELECT PUSH BUTTON.

INSTALLING A BATTERY

Ensure that the Etek Ego is switched off. Place the marker on a flat surface in front of you with the feed tube furthest away from you and the barrel pointing to the right.

Using a 5/64" (2mm) hex key, remove the three counter sunk screws that holds the rubber grip onto the grip frame. Peel the rubber grip to the right to expose the electronics within the grip frame.

If present remove the existing 9 volt battery by sliding your thumb into the recess provided below the battery and lever the battery gently out of the frame [SEE FIGURE 2.1].

DO NOT pull on the top of the battery to remove it as this will cause the battery terminals to bend and will result in a poor electrical connection.

Fit a 9 volt alkaline battery (type PP3, 6LR61, MN1064) into the recess with the battery terminals away from you. The positive terminal should be on the right hand side, nearest to the side of the frame [SEE FIGURE 2.2].

Ensure that all of the wires are within the recess of the frame and then replace the rubber grip and tighten the counter sunk grip screws using the 5/64" (2mm) hex key.

DO NOT OVER-TIGHTEN THE SCREWS.

SWITCHING ON THE ETEK EGO

At the rear of the grip frame is the CONTROL CONSOLE. Press and hold the Select Pushbutton. [SEE FIGURE 2.3]. Release the Select Pushbutton when the UID lights up and your Etek Ego will begin its power up sequence.

SWITCHING OFF THE ETEK EGO

Press and hold the Select push button. Release the Select push button when all three of the LEDs on the User Interface Display (UID) turn red. The LEDs will extinguish one by one and the Etek Ego will turn off.

FIRING THE ETEK EGO

If the Break Beam Sensor System is disabled, pull the trigger to fire the Etek Ego. If the Break Beam Sensor System is enabled and there is a paintball in the breech, pulling the trigger will also fire the Etek Ego. The entire firing sequence is controlled electronically by the Etek Ego circuit board and solenoid, enabling any user to achieve high rates of fire easily.

NOTE: WHEN TURNING ON THE ETEK EGO, THE BREAK-BEAM SENSOR SYSTEM IS AUTOMATICALLY ENABLED.

USING THE BREAK BEAM SENSOR SYSTEM (BBSS)

When the Etek Ego is powered up, the Break Beam Sensor System (BBSS) is automatically enabled.

To switch off the Break Bean Sensor System, push and hold the Select pushbutton for 0.5 seconds. The “E” on the Control Console will flash red indicating that the Break Beam Sensor System has been disabled [SEE FIGURE 2.4].

To switch on the Break Beam Sensor System, push and hold the Select pushbutton for 0.5 seconds. The “E” on the Control Console will flash either yellow (no ball detected) or blue (ball detected) indicating that the Break Beam Sensor System has been enabled [SEE FIGURE 2.5].

Additional features of the Etek Egos Break Beam Sensor System are covered in full in the “Understanding the BBSS Operation” section on Page 12 of this User Manual.
SETTING UP

Before you can begin to use your Etek Ego, there are a few necessary components that are required to enable the Etek Ego to function; namely an air system and a loader of your choice.

INSTALLING A PRESET AIR SYSTEM

Every Etek Ego comes complete with an Eclipse On/Off Purge System (OOPS) allowing a preset regulator and tank to be screwed straight in for immediate use. Before screwing the preset into the OOPS ensure that the On/Off knob is wound out approximately half way (SEE FIGURE 3.1).

Be careful not to unscrew the On/Off knob too far as it will come completely out of the OOPS. If this happens, replace the On/Off knob by screwing it back into the OOPS body in a clockwise direction.

Screw the preset air system into the OOPS System (SEE FIGURE 3.2) so that the bottle screws in all the way and is tight. Slowly turn the On/Off knob in a clockwise direction allowing the OOPS body onto the base of the grip frame, causing the Etek Ego to become pressurized, providing that there is sufficient air in your tank (SEE FIGURE 3.3).

You have now installed a preset air system onto your Etek Ego.

NOTE: The Etek Ego cannot be used with CO2, it can only be powered by compressed air or nitrogen.

INSTALLING AN ADJUSTABLE AIR SYSTEM

Finally disconnect the 1/4" Macroline hosing from the elbow attached to the OOPS at the base of the grip frame (SEE FIGURE 3.4).

Unscrew the On/Off knob completely from the OOPS body. Using a 5/64" hex key, remove the countersunk screws from the rubber grip, peel the rubber grip back and if there is one present, remove the 9 volt battery from within the frame. Using a 5/32" hex key loosen the set screw that tightens the OOPS body onto the base of the grip frame, so that the OOPS body can be removed from the rail by sliding it backwards (SEE FIGURE 3.5).

As well as the integrated slide rail at the base of the Etek Egos grip frame, there are also two 10-32 UNF threaded screw holes which will accept standard bottom line screws (SEE FIGURE 3.6).

Attach the air system of your choice, taking care to use the correct fittings and length and size of hose to accommodate your requirements.

ATTACHING A LOADER

Using a 5/32” hex key, turn the top screw of the clamping feed tube clockwise until the feed neck of your loader can easily be pushed into the top of the clamping feed tube (SEE FIGURE 3.7). Push your choice of loader firmly into the clamping feed tube so that it rests on the shelf inside the clamping feed tube (SEE FIGURE 3.8). Using a 5/32” hex key, tighten the top screw of the clamping feed tube by turning it clockwise until the loader is firmly gripped (SEE FIGURE 3.8).

You have now attached a loader to your Etek Ego. Once you have filled your loader and air tank you will then be ready to begin using your Etek Ego.

SWITCHING ON

Pressing and holding the Select push button will switch the Etek Ego on. Release the Select push button when the UID lights up and your Etek Ego will begin its power up sequence.

NOTE WHEN USING AN OOPS ON YOUR ETEK EGO, THE ETEK EGO WILL STILL HAVE STORED AIR IN THE VALVE CHAMBER, GAS LINE AND IN-LINE REGULATOR AFTER YOU HAVE TURNED THE OOPS OFF. PLEASE REMEMBER TO DISCHARGE THE STORED AIR IN A SAFE DIRECTION AS YOU ARE UNSCREwing THE ON/OFF KNOB ON THE OOPS.
**THE CONTROL CONSOLE**

The Etek Ego utilises multi coloured LEDs to display all of the information that the user requires via the Etek Egos Control Console.

Each area of the Control Console is used to perform different functions and display different information as outlined below:

- **The Select Pushbutton** is used to:
  - Switch the Etek Ego On and Off.
  - Switch the BBSS (eye system) On and Off.
  - To enter the Set-Up Mode.
  - To scroll through parameters and edit parameters.

- **The “E” on the Control Console** is used to:
  - Display the status of the BBSS (eye system).
  - Display the value of a parameter in Tens (10 - 90)

- **The “G” on the Control Console** is used to:
  - Display the value of a parameter in Units (0 - 9)
  - Display the status of the battery.

- **The “O” on the Control Console** is used to:
  - Display the value of a parameter in Tenths (0.0 - 0.9)

As a combined unit the “E”, “G” and “O” are also used to:
- Display power up and power down status.
- Display tournament lock status.
- Display that Factory settings have been restored.
- To confirm whether a parameter value has been accepted or rejected.

**UNDERSTANDING THE BBSS OPERATION**

The Etek Ego displays the status of the Break Beam Sensor System using the “E” area of the Control Console as follows:

<table>
<thead>
<tr>
<th>INDICATION</th>
<th>BREECH SENSOR STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flashing Yellow</td>
<td>BBSS enables (On), no paintball detected</td>
</tr>
<tr>
<td></td>
<td>- marker will not fire.</td>
</tr>
<tr>
<td>Flashing Blue</td>
<td>BBSS enabled (On), paintball detected</td>
</tr>
<tr>
<td></td>
<td>- marker will fire.</td>
</tr>
<tr>
<td>Flashing Red</td>
<td>BBSS disabled (Off), marker will fire.</td>
</tr>
<tr>
<td>Double Flashing Red</td>
<td>Blockage detected, BBSS temporarily disabled (Off), marker will fire.</td>
</tr>
</tbody>
</table>

Any changes to the Breech Sensor Status will be displayed immediately. This provides valuable feedback to the user.

An example of this is when you are shooting a string of shots with the BBSS enabled, the “E” on the Control Console will alternate in colour from Yellow (no paintball detected) to Blue (paintball detected). In this instance too much yellow would indicate that your chosen loader cannot keep up with how fast you are shooting and is consequently slowing down your rate of fire.

- **The BBSS is able to switch itself off in the event that a blockage or contamination prevents it from functioning correctly.**
  - This is represented by a double flashing red light in the “E” area of the Control Console.
  - The Etek’s ROF will be capped at 10bps. In this instance, the BBSS will switch itself back on once the blockage is cleared and the correct operation of the BBSS can then be resumed.

**ADJUSTING YOUR VELOCITY**

When using your Etek Ego, you may wish to change the velocity at which your Etek Ego is firing. This is done by inserting a 1/8th” hex key into the adjuster screw at the bottom of your Etek Ego Inline regulator and adjusting it accordingly (SEE FIGURE 3.10). By turning this adjuster screw clockwise you decrease the output pressure of the inline regulator and consequently the velocity, by turning the adjuster screw counter clockwise you increase the output pressure of the inline regulator and consequently the velocity.

**NOTE:** After each adjustment fire at least two clearing shots to gain an accurate velocity reading. Never exceed 300fps.

**ADJUSTING YOUR LPR PRESSURE**

When using your Etek Ego, you may wish to change the output pressure of your LPR. This is easily done by inserting a 5/32nd” inch hex key into the adjuster screw at the front and adjusting it accordingly (SEE FIGURE 3.11).

By turning the adjuster screw clockwise, you decrease the output pressure of your LPR and consequently reduce the pressure driving your rammer back and forth. By turning the adjuster screw counter clockwise, you increase the output pressure of your LPR and consequently increase the pressure driving your rammer back and forth.

**NOTE:** Turning the adjuster screw out too far will cause it to fall out.
THE SETTING OF THE TRIGGER

There are three adjustment points on the trigger – the FRONT STOP TRIGGER SCREW, the REAR STOP TRIGGER SCREW, and the EYEBROWS TENSION SCREW.

As standard each Etek Ego comes with a factory set trigger travel of approximately 2mm in total length; one millimeter of travel before the firing point and one millimeter of travel after the firing point.

The FRONT STOP TRIGGER SCREW is used to set the amount of trigger travel prior to the marker firing. Turn this screw clockwise to reduce the amount of travel. Do not turn the screw too far or the trigger will be pushed past the firing point and the marker will not work. Turn this screw counterclockwise to increase the amount of trigger travel. [SEE FIGURE 4.1 – Five flashes of the “O”.]

The REAR STOP TRIGGER SCREW is used to set the amount of trigger travel after the marker has fired. Turn this screw counterclockwise to reduce the amount of travel. Do not turn the screw too far or the trigger will be prevented from reaching its firing point and the marker will not work. Turn this screw counter clockwise to increase the amount of trigger travel. [SEE FIGURE 4.2].

The SPRING TENSION SCREW is used to adjust the amount of spring tension behind the trigger when it is pulled. Turn the screw clockwise to increase the amount of spring tension. Turn the screw counter clockwise to reduce the amount of spring tension. [SEE FIGURE 4.3].

THE TOURNAMENT LOCK

The Etek Ego has an electronic tournament lock which, once enabled, prevents the user from making any changes to the operating parameters of the marker. This tournament lock complies with the rules of all major tournaments and must be enabled prior to entering the field of play in order to avoid penalties.

To disable the tournament lock –

1. Unscrew the three screws from the right hand side of the rubber grips (see figure 4.4) using a 5/64” hex key.
2. Turn on the Etek Ego.
3. Locate and press the Lock pushbutton on the circuit board (see figure 4.5). The Control Console will flash green to indicate that the tournament lock has been disabled.
4. Replace the three rubber grip screws using a 5/64” hex key.

To enable the tournament lock –

1. Unscrew the three screws from the right hand side of the rubber grips (see figure 4.4) using a 5/64” hex key.
2. Turn off the Etek Ego.
3. Locate and press the Lock pushbutton on the circuit board (see figure 4.5). The Control Console will flash red to indicate that the tournament lock has been enabled.
4. Replace the three rubber grip screws using a 5/64” hex key.

THE SET UP MENU

To activate the Set Up Menu, firstly ensure that the Etek Ego is switched off with a fully charged battery and whilst the trigger is still pulled push and hold the Select pushbutton until the “E” and the “O” on the Control Console alternately flash white to indicate entry to Set Up mode. When you have entered the Set Up Menu, the “G” on the Control Console will turn red to indicate the first parameter of the Set Up Menu: The Firing Mode. You can now release the trigger.

Press the select pushbutton to scroll through each of the parameters on the Set Up Menu:

1. Discharge
2. Firing Mode
3. Maximum ROF without Breech Sensor
4. Maximum ROF with Breech Sensor
5. Debounce
6. Ball Detection Time
7. Gonio
8. Value
9. Turndown

---

NOTE: THE ETEK EGO IS SHIPPED WITH THE TOURNAMENT LOCK DISABLED.

---

### Set Up Menu Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge</td>
<td>1-5</td>
</tr>
<tr>
<td>Firing Mode</td>
<td>1-5</td>
</tr>
<tr>
<td>Maximum ROF without Breech Sensor</td>
<td>10.0 bps to 15.4 bps</td>
</tr>
<tr>
<td>Maximum ROF with Breech Sensor</td>
<td>10.0 bps to 15.4 bps</td>
</tr>
<tr>
<td>Debounce</td>
<td>1 to 10</td>
</tr>
<tr>
<td>Ball Detection Time</td>
<td>1 ms to 10 ms</td>
</tr>
<tr>
<td>Gonio</td>
<td>1-5</td>
</tr>
<tr>
<td>Value</td>
<td>0.0 to 0.9</td>
</tr>
<tr>
<td>Turndown</td>
<td>1-5</td>
</tr>
</tbody>
</table>

---

### Set Up Menu Instructions

1. **Ensure that you are in Set Up mode (see previous page).**
2. **Choose the parameter that you wish to modify.**
3. **Pull and hold the trigger.**
4. **When sequence is complete, the “E” on the Control Console is illuminated. Release the trigger.**
5. **Pull the trigger up nine times to set the tens digit.**
6. **Push the Select pushbutton.**
7. **Pull the trigger up nine times to set the units digit.**
8. **Push the Select pushbutton.**
9. **Pull the trigger up nine times to set the tenths digit.**
10. **Push the Select pushbutton.**

---

### Colour Parameter Range

- **Red:** Firing Mode 1 to 5
- **White:** Maximum ROF without Breech Sensor 10.0 bps to 15.4 bps
- **Blue:** Maximum ROF with Breech Sensor 10.0 bps to 15.4 bps
- **Cyan:** Debounce 1 to 10
- **Magenta:** Ball Detection Time 1 ms to 10 ms
- **Yellow:** Gonio 1-5

---

### Parameter Values

- **Discharge:** 1-5
- **Firing Mode:** 1-5
- **Maximum ROF without Breech Sensor:** 10.0 bps to 15.4 bps
- **Maximum ROF with Breech Sensor:** 10.0 bps to 15.4 bps
- **Debounce:** 1 to 10
- **Ball Detection Time:** 1 ms to 10 ms
- **Gonio:** 1-5

---

### Modifying a Parameter

You can modify a parameter by using the following guidelines:

1. Ensure that you are in Set Up mode (see previous page).
2. Choose the parameter that you wish to modify.
3. Pull and hold the trigger.
4. When sequence is complete, the “E” on the Control Console is illuminated. Release the trigger.
5. Pull the trigger up nine times to set the tens digit. **DO NOT pull the trigger if the required digit is zero.**
6. Push the Select pushbutton. The “G” on the Control Console is illuminated.
7. Pull the trigger up nine times to set the units digit. **DO NOT pull the trigger if the required digit is zero.**
8. Push the Select pushbutton. The “O” on the Control Console is illuminated.
9. Pull the trigger up nine times to set the tenths digit. **DO NOT pull the trigger if the required digit is zero.**
10. Push the Select pushbutton. The “E”, “G” and “O” will flash three times; if the colour is green then the value has been accepted, if the value is red then the value has been rejected.

---

### Advanced Set-Up

- **Tens (10-99):** Units (0-9)
- **Tens (0.0-0.9):** Units (0-9)

---

### Advanced Set-Up Instructions

- **Tens:** 1-5
- **Units:** 0-9
- **Tenths:** 0.0-0.9

---

### Notes

- **To leave a parameter unchanged having already started to modify it, simply set an illegal value (00.0 or any single digit greater than 9) and the value will consequently be rejected.**

---

### Visit

- **Visit www.Pl@neteclipse.coM**
THE FIRING MODE PARAMETER.
The Firing Mode Parameter is used to control the firing mode of the Etek Ego. The Firing Mode Parameter is displayed by a Red light on the Control Console when you are in the Set Up Menu. There are five selectable Firing Modes on the Etek Ego. Each of the selectable firing modes has its own features as outlined below:

**Semi 1** (Mode 1 on the Firing Mode Parameter)
This is the default firing mode which produces one shot for every pull of the trigger. This mode is uncapped with the Break Beam Sensor System (BBSS) enabled.

**Semi 2** (Mode 2 on the Firing Mode Parameter)
This mode is the same as Semi 1 mode, except that the rate of fire is capped at 15 balls per second (bps).

**Ramp 1** (Mode 3 on the Firing Mode Parameter)
This mode allows the rate of fire to ramp to a maximum set by the Maximum Rate of Fire with BBSS enabled parameter, once the trigger has been pulled four times at a minimum rate of 5 pulls per second, and allows this rate of fire to maintained as long as the required trigger pull rate is maintained. After the last trigger pull, the ramp can be restarted with a single trigger pull if that pull occurs within one second.

**Ramp 2** (Mode 4 on the Firing Mode Parameter)
This mode is the same as Ramp 1 mode but without the one second ramp restart.

**Ramp 3** (Mode 5 on the Firing Mode Parameter)
This mode is the same as Ramp 2 mode but activates at a minimum rate of 7.5 pulls per second.

Please Note: Certain modes may only be available in certain countries and on certain models of the Etek Egos.

THE MAXIMUM RATE OF FIRE (CAPPED MODES).
The Maximum Rate of Fire in capped modes is used to control how fast the Etek Ego can cycle in each of the capped firing modes; Semi 2, Ramp 1, Ramp 2 and Ramp 3.

**The Maximum Rate of Fire (capped modes) Parameter** is displayed by a Green light on the Control Console when you are in the Set Up Menu.

This parameter is fully adjustable between 1.0ms and 15.0ms in 0.1 ms increments.

THE MAXIMUM RATE OF FIRE (BBSS DISABLED).
The Maximum Rate of Fire with the BBSS disabled is used to control how fast the Etek Ego cycles when the Break Beam Sensor System has been disabled.

**The Maximum Rate of Fire (BBSS disabled) Parameter** is displayed by a Blue light on the Control Console when you are in the Set Up Menu.

This parameter is fully adjustable between 1.0ms and 15.0ms in 0.1 ms increments. This parameter should be set to match the slowest speed of the loading system in use.

DEBOUNCE.
The Debounce Parameter is used to set the level of Debounce (anti-bounce) on your Etek Ego.

The Debounce Parameter is displayed by a Light Blue light on the Control Console when you are in the Set Up Menu.

This parameter is fully adjustable between Debounce 1 and Debounce 10 with Debounce 1 allowing the most bounce and Debounce 10 the least.

THE RESPECT PARAMETER.
Whilst in Set Up Mode, it is possible to reset all of the control parameters to the factory default settings in the following way:
1. Press and hold the Lock pushbutton (SEE FIGURE 4.5).
2. The “E”, “G” and “O” on the control will repeatedly flash blue to indicate that the factory default settings have been restored.
3. Release the Lock pushbutton.

DOWELL.
The Dwell Parameter controls the amount of time that the solenoid is energised and therefore the amount of gas that is released with each shot.

The Dwell Parameter is displayed by a Purple light on the Control Console when you are in the Set Up Menu.

This parameter is fully adjustable between 1.0ms and 15.0ms in 0.1 ms increments.

THE BALL DETECTION TIME.
The Ball Detection Time Parameter defines how long a paintball has to sit in the breech of the Etek Ego before it is considered ready to fire.

The Ball Detection Time Parameter is displayed by a Yellow light on the Control Console when you are in the Set Up Menu.

This parameter is fully adjustable between 1 ms and 10 ms in 1 ms increments.
CLEANING THE BREAK-BEAM SENSOR SYSTEM

WARNING: DE-GAS YOUR MARKER, DISCHARGING ANY STORED GAS IN A SAFE DIRECTION, AND REMOVE THE BARREL AND LOADER TO MAKE THE EGO EASIER TO WORK ON.

Undo the retaining screw for the Break-Beam Sensor Cover on the left hand side of the Etek Ego using a 5/64" hex key (SEE FIGURE 5.1).

Remove the Sensor Cover to expose the back of the Break-Beam Sensor unit (SEE FIGURE 5.2). Using a dry Q-tip, carefully remove any debris, paint or moisture from the back of the sensor unit and from inside the Sensor Cover.

Carefully lift the sensor unit free from the Etek Ego body and using another dry Q-tip, remove any grease or debris build-up from the front of the sensor unit (SEE FIGURE 5.3).

WarNiNg: dE-gAS yOur markEr, dischargiNg ANY sTOred gas iN a safE dirEcTiOn, aNd rEmOvE ThE barrEl aNd lOadEr TO makE ThE EgO EasiEr TO wOrk ON.

NOTE: WHEN cLEANiNg brEak-bEam sENsOR sysTEm iNspEcT cONdiTiOn Of rubbEr fiNgEr dETENTs aNd rEplacE iF NEcEssary. ENsurE ThaT ThE rEcEivEr sENsOR (iNdicaTEd by a rEd mark & rEd hEaT shriNk) is lOcaTEd ON ThE righT-haNd sidE Of ThE markEr bOdy.

Remove the rubber finger detent and using a dry Q-tip clean the detent and it’s location point in the Etek Ego Body. Replace clean detent back into the Etek Ego body (SEE FIGURE 5.4) and install sensor unit back into place (SEE FIGURE 5.5).

Replace the Sensor Cover and using a 5/64" hex key, replace the Break Beam Sensor Cover retaining screw to hold the sensor cover in place (SEE FIGURE 5.6).

BE CAREFUL NOT TO CROSS-THREAD THE SCREW. DO NOT OVER TIGHTEN THE SCREW.

Repeat procedure for opposite side of the Etek Ego.

You have now cleaned your Break-Beam Sensor System.
Disconnect the hosing from your Inline Regulator allowing it to be unscrewed from the Front Regulator Mount (FRM) (SEE FIGURE 5.7).

Turn the Inline Regulator upside down and carefully unscrew the two sections, taking care not to lose any of the washers that form the spring pack inside the regulator (SEE FIGURE 5.8).

By firmly gripping the exposed end of the brass regulator piston, carefully remove the piston and spring stack in its entirety (SEE FIGURE 5.9).

The spring pack comprises of 16 sprung washers, which must be in the correct configuration for the inline regulator to perform at the required pressure range (SEE FIGURE 5.10).

Insert a 1/8” hex key into the adjuster screw in the bottom half of the inline regulator, and wind the screw clockwise through the bottom section of the regulator body (SEE FIGURE 5.11) and pull free when it will no longer turn upwards anymore.

Using a dry Q-tip, clean the seal that sits at the top of the body of the bottom section of the Inline regulator (SEE FIGURE 5.12). Using a light oil and a fresh Q-tip, re-lubricate the seal ready for re-assembly (SEE FIGURE 5.13). Inspect top face of adjuster unit for any excessive wear or damage as this could cause inline regulator to creep (SEE FIGURE 5.14).

NOTE: The sealing face on the inline regulator piston can also cause the regulator to creep or “supercharge”, so this should also be checked.

With the threaded section towards to the base of the regulator body, re-insert the adjuster screw into the bottom half of the regulator body (SEE FIGURE 5.15). Apply light pressure to the top of the adjuster screw and using a 1/8” hex key wind the adjuster screw counter clockwise until it stops at the base of the regulator body. Turn the adjuster screw five turns in a clockwise direction to set the inline regulator pressure at approximately 300 - 350 psi.

Next take the piston and spring stack and clean the o-ring at the end of the piston, re-lubricating it with a light smear of Vaseline ready for re-assembly (SEE FIGURE 5.16). Insert the piston and spring stack into the top half of the inline regulator body (SEE FIGURE 5.17).

Keeping the top half of the inline regulator upside down, screw the two halves of the inline regulator together (SEE FIGURE 5.18).

You have now stripped, cleaned, lubricated and assembled your inline regulator.

Note: If any seals are damaged, replace as necessary. Extra seals are available in ETek Ego Parts Kits available Online at www.ETekEgo.com.
The Inline regulator can be removed if needs be.

Unscrew the low-pressure regulator cap from the Etek Ego body (See FIGURE 5.19).

Remove the LPR piston and rear spring from the LPR cap (See FIGURE 5.20).

Cupping the palm of one hand, turn the LPR cap upside down and tip the front spring out into your palm (See FIGURE 5.21).

Remove the rear spring from the LPR piston and using a dry Q-tip, carefully clean the seal on the LPR piston (See FIGURE 5.22). If the seal is damaged, replace as necessary. Once the seal has been cleaned, lubricate with a light smear of Vaseline, so that it is ready for re-assembly.

NOTE: The Adjuster Piston (coloured cap that the front spring rests in) does not need to be removed from the LPR cap for regular maintenance.

Insert the front spring into the LPR cap, so that it rests neatly in the adjuster piston (See FIGURE 5.23).

Place the rear spring onto the LPR piston and insert piston and spring into the LPR cap, o-ring end first (See FIGURE 5.24).

Before screwing the LPR cap back onto your Etek Ego, use a dry Q-tip to clean the seal inside the LPR body (See FIGURE 5.25). Lubricate this seal using a light 3 in 1 oil.

Replace the LPR cap by screwing it onto the LPR body in the Etek Ego (See FIGURE 5.26).

WARNING: De-gas your marker, discharging any stored gas in a safe direction, and remove the barrel and loader to make the ego easier to work on.
CLEANING AND LUBRICATION OF THE RAMMER

Pull the bolt pin upwards so that it dis-engages the rammer, allowing the bolt to be removed via the rear of the Etek Ego (SEE FIGURE 5.27).

Using a 3/16” hex key, unscrew and remove the rammer cap at the rear of the Etek Ego (SEE FIGURE 5.28).

Raise the front of the Etek Ego and tap the Etek Ego onto your hand until the rammer falls into the palm of your hand (SEE FIGURE 5.29).

Thoroughly clean the rammer shaft and all of its seals, paying special attention to the seal on the middle of the shaft (SEE FIGURE 5.30), the rear seal (SEE FIGURE 5.31), and the condition of the bumper at the rear of the shaft (SEE FIGURE 5.32).

Replace any worn seals/bumpers using authentic Etek Ego spare parts.

WARNING: DE-GAS YOUR MARKER, DISCHARGING ANY STORED GAS IN A SAFE DIRECTION, AND REMOVE THE BARREL AND LOADER TO MAKE THE EGO EASIER TO WORK ON.

Lubricate all of the seals on the rammer shaft and replace the rammer into the rear of the Etek Ego body with the bumper at the back (SEE FIGURE 5.33).

NOTE: USE LIGHT PAINTGUN OIL.

Replace the rammer cap, using the 3/16” hex key to secure it into the Etek Ego body (SEE FIGURE 5.34).

Noting the position of the rammer in the Etek Ego body (SEE FIGURE 5.35), replace the bolt and locate the bolt pin into the designated groove in the rammer shaft.
HOW TO STRIP THE ETEK EGO

WARNING: DE-GAS YOUR MARKER, DISCHARGING ANY STORED GAS IN A SAFE DIRECTION, AND REMOVE THE BARREL AND LOADER TO MAKE THE EGO EASIER TO WORK ON.

Remove the bolt and bolt pin, disconnect any hosing and unscrew the inline regulator from the front bottle mount as detailed above.

Using a 5/64" hex key remove the six screws that attach the Etek Ego grips to the Etek Ego frame (See Figure 5.36).

Unplug the solenoid and unplug the Break-Beam sensors from their ports on the Etek Ego printed circuit board (See Figure 5.37).

Using a 1/8" hex key undo the two frame retaining screws (See Figure 5.38) and remove the frame from the Etek Ego body, taking care not to damage any wires.

Free the hose from the barb fitting at the rear of the front regulator mount, using a pick or other suitable implement (See Figure 5.39).

Warning: DE-gas your marker, discharging any stored gas in a safe direction, and remove the barrel and loader to make the Ego easier to work on.

Using a 1/8" hex key, remove the valve plug from the underside of the Etek Ego body (See Figure 5.40).

Taking the Etek Ego body, turn it so that the underside of the front regulator mount (FRM) is visible, exposing the retaining screw (See Figure 5.41). Using a 3/16th" hex key remove the FRM retaining screw and remove the FRM from the Etek Ego body (See Figure 5.42).

Once the FRM has been removed the LPR body is exposed through the bottom of the Etek Ego body. Slide the complete LPR out of the Etek Ego body (See Figure 5.43).

Slide the rammer assembly out of the rear of the Etek Ego, remembering to remove the valve and valve spring (See Figure 5.44).

Remove the exhaust valve and valve spring from the rammer assembly, and inspect the sealing face of both the rammer assembly body and exhaust valve for any excessive wear or damage. If the exhaust valve or brass bushed valve guide is damaged then replace using authentic Etek Ego parts.

You have now stripped down your Etek Ego.
ASSEMBLING THE EGO

Having stripped down the Etek Ego, here is a guide of how best to re-assemble it.

Clean and lubricate the seal at the back of the LPR body (SEE FIGURE 5.45). Slide the entire LPR back into the Etek Ego body, so that the bottom of the LPR body lines up with the FRM window in the bottom of the Etek Ego body (SEE FIGURE 5.46).

Insert the FRM, ensuring that all of the seals are in the correct place and that the FRM lines up with the bottom of the LPR body (SEE FIGURE 5.47). Using the 3/16th” hex key tighten down the FRM retaining screw to secure both the FRM and LPR in place.

Lubricate the six seals of the rammer assembly (SEE FIGURE 5.48) and lubricate the exhaust valve shaft before inserting exhaust valve into the brass bushed valve guide (SEE FIGURE 5.49).

Remembering to include the valve spring, begin to insert the rammer assembly into the Etek Ego body. By applying slight pressure to the back of the rammer assembly hold the rammer in place against the exhaust valve spring tension, so that the valve plug can be replaced (SEE FIGURE 5.50).

NOTE: DO-NOT OVERTIGHTEN THE VALVE PLUG SCREW.

Attach low-pressure hosing to the barb at the back of the FRM (SEE FIGURE 5.51).

Continued >
...ASSEMBLING THE EGO

Carefully thread the solenoid and Break-Beam Sensor leads through the access hole in the top of the grip frame (See Figure 5.52), and reattach the grip frame to the marker, tightening the grip frame screws using a 1/8" hex key (See Figure 5.53).

Ensure that the Break-Beam Sensor cables lie neatly in the slots provided for them in the Etek Ego grip frame. Connect the solenoid and the Break-Beam Sensors into their relevant places on the Etek Ego PCB (See Figure 5.54) and re-attach the Etek Ego grips by securing the six grip screws using a 5/64th” hex key (See Figure 5.55).

Screw the inline regulator back into the FRM (See Figure 5.56) and connect any hosing that was disconnected (See Figure 5.57). Replace bolt and locate bolt pin in the designated groove in the rammer.

You have now assembled your Etek Ego.

NOTE: CHECK THAT NO WIRES ARE TRAPPED BEFORE TIGHTENING DOWN THE FRAME SCREWS.

CLEANING THE BOLT

This procedure can be performed with the Etek Ego gassed up as well as de-gassed.

Raise the bolt pin and remove the bolt and bolt pin from the Etek Ego marker body.

Using a dry Q-tip remove any paint or grease from the surface of the bolt (See Figure 5.58).

Replace the bolt, locking the bolt pin into the designated slot in the rammer.
STRIPPING AND CLEANING THE SOLENOID

Remove the three rubber grip screws from the right hand side of your grip frame and unplug the solenoid and BBSS from the PCB. Remove the two frame screws allowing you to remove your frame, Inline regulator and hosing set-ups from your B56 Ego so that you are left with the solenoid exposed (SEE FIGURE 5.59).

Using a small Philips head screw driver, undo the two solenoid retaining screws (SEE FIGURE 5.60) and remove the solenoid from the minifold taking care not to loose the gasket from the face of the minifold.

With the solenoid detached from the minifold, use a small flat instrument to gently lever the two solenoid retainer clips off the solenoid (SEE FIGURE 5.61). This will allow you to split the solenoid into two and access the spool valve.

Using a pair of needle-nose pliers remove the spool from the front section of the solenoid (SEE FIGURE 5.62). Note that it is the flat side of the spool valve facing you when you remove the spool valve. It may be necessary to also remove the front cap of the solenoid to push the spool out, if it cannot be pulled out with the needle nose pliers.

Thoroughly clean and inspect the spool and its O-rings for any debris or dirt (SEE FIGURE 5.63). Lubricate the O-rings using Dow 33 or similar lubricant and re-insert the spool into the solenoid body, with the concave end towards end A of the solenoid body.

FIGURE 5.64 and FIGURE 5.65 show the difference between the flat end of the spool and the concave end of the spool.

Replace the two solenoid retaining clips to the sides of the solenoid body and having ensured that the minifold O-rings are in place, screw the solenoid back into the correct position on the minifold. For reference, the end of the solenoid with the metal casing should be towards the rear of the marker.

Replace the Inline regulator, grip frame and hosing set-up, taking care to feed the solenoid and BBSS leads through the grip frame correctly so that they do not get caught or damaged. Having screwed in the three rubber grip screws to finish the process.

You have now stripped and cleaned your Ego solenoid.

FIG 5.59
FIG 5.60
FIG 5.61
FIG 5.62
FIG 5.63
FIG 5.64
FIG 5.65
<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Although a fresh battery has been fitted, the Etek Ego will not switch on.</td>
<td>The battery has been fitted incorrectly.</td>
<td>Fit the battery correctly with the positive terminal nearest to the side of the frame.</td>
</tr>
<tr>
<td></td>
<td>The battery terminals are not making proper contact with the battery.</td>
<td>Remove the battery, gently bend the terminals towards where the battery will sit and then replace the battery.</td>
</tr>
<tr>
<td></td>
<td>The battery does not seem to last very long.</td>
<td>Use an alkaline or metal hydride battery. Do not use a low quality or rechargeable battery.</td>
</tr>
<tr>
<td></td>
<td>The Etek Ego leaks from the Solenoid.</td>
<td>Check that gasket is intact and seated correctly in their designated pockets in the Minifold.</td>
</tr>
<tr>
<td></td>
<td>Dirt on Spool of Etek Ego Solenoid.</td>
<td>Strip and clean solenoid (See Maintenance Section).</td>
</tr>
<tr>
<td></td>
<td>Damaged Eclipse Ego Solenoid.</td>
<td>Replace Etek Ego Solenoid.</td>
</tr>
<tr>
<td></td>
<td>LPR is supercharging causing intermittent leaking.</td>
<td>Clean LPR Piston seal.</td>
</tr>
<tr>
<td></td>
<td>Check for damaged or incorrect seals on Rammer.</td>
<td>Replace seals.</td>
</tr>
<tr>
<td></td>
<td>Is it leaking from the Barbs?</td>
<td>Check hose for cuts or replace minifold.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Etek Ego leaks down barrel</td>
<td>Leaky Exhaust Valve.</td>
<td>Replace Exhaust Valve.</td>
</tr>
<tr>
<td></td>
<td>Damaged Valve Seat.</td>
<td>Replace Rammer Housing.</td>
</tr>
<tr>
<td></td>
<td>Incorrect seal on front of Rammer Housing.</td>
<td>Replace front seals on Rammer Housing with 016 seals.</td>
</tr>
<tr>
<td></td>
<td>Gas vents quickly down barrel as soon as it is gassed up.</td>
<td>Replace Exhaust Valve and brass valve guide as necessary (see Maintenance Section).</td>
</tr>
<tr>
<td></td>
<td>The Etek Ego fires yet bolt doesn’t move.</td>
<td>LIFT Bolt pin and line up with position of rammer correctly (See Maintenance Section).</td>
</tr>
<tr>
<td></td>
<td>The Marker is chopping or trapping paint.</td>
<td>Clean the Bolt.</td>
</tr>
<tr>
<td></td>
<td>The Break-Beam Sensor System is switched off.</td>
<td>Clean the Break-Beam Sensor System.</td>
</tr>
<tr>
<td></td>
<td>The Exhaust Valve has become jammed in the brass valve guide.</td>
<td>Switch on the Break-Beam Sensor System.</td>
</tr>
<tr>
<td></td>
<td>The Bolt is dirty, causing the sensor system to incorrectly detect a retracted bolt.</td>
<td>Increase the ball detection time.</td>
</tr>
<tr>
<td></td>
<td>The Break-Beam Sensor System is dirty, causing the incorrect detection of paintballs.</td>
<td>Clean the Break-Beam Sensor System.</td>
</tr>
<tr>
<td></td>
<td>Bolt pin is not located in Rammer correctly.</td>
<td>LIFT Bolt pin and line up with position of rammer correctly (See Maintenance Section).</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Etek Ego does not fire.</td>
<td>Trigger is set up incorrectly.</td>
<td>Set trigger up correctly (See Advanced Set-Up Section.).</td>
</tr>
<tr>
<td></td>
<td>Solenoid is not plugged into the Etek Ego PCB.</td>
<td>Plug solenoid into port on the Etek Ego PCB.</td>
</tr>
<tr>
<td></td>
<td>The Break-Beam Sensor System is enabled but there is no paint.</td>
<td>Fill loader with paint / switch off BBSS.</td>
</tr>
<tr>
<td>Low Velocity First Shot.</td>
<td>Dwell parameter is too low to overcome friction on Solenoid and / or Rammer O-rings.</td>
<td>Increase Dwell parameter.</td>
</tr>
<tr>
<td>High Velocity First Shot.</td>
<td>Dwell parameter set too high.</td>
<td>Reduce Dwell parameter.</td>
</tr>
<tr>
<td></td>
<td>Inline Regulator pressure creeping.</td>
<td>Strip and clean Inline Regulator. Replace Inline Regulator piston if necessary.</td>
</tr>
<tr>
<td>My trigger is very “Bouncy”, how can I reduce it?</td>
<td>Too low Debounce setting.</td>
<td>Increase Debounce setting.</td>
</tr>
<tr>
<td></td>
<td>The Break-Beam Sensor System does not appear to be reading correctly.</td>
<td>Refer to Advanced Set-Up Section for guidelines of how to adjust your Etek Ego Trigger accordingly.</td>
</tr>
<tr>
<td></td>
<td>The Break-Beam Sensor System is dirty.</td>
<td>Keep the Break-Beam Sensors clean to ensure correct readings (See Maintenance Section.).</td>
</tr>
<tr>
<td></td>
<td>Two or more balls are being fed into the breech.</td>
<td>Check that the rubber finger detents.</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Etek Ego is inconsistent.</td>
<td>Inline Regulator is supercharging.</td>
<td>Strip and clean Inline Regulator (See Maintenance Section).</td>
</tr>
<tr>
<td>Leaking Rammer Assembly (Leak gets louder when bolt is removed).</td>
<td>Front ram shaft seal deteriorated.</td>
<td>Replace front Rammer Shaft seal.</td>
</tr>
<tr>
<td>How can I get the best performance out of my gun?</td>
<td>Using a force-fed loader (Halo B, V, eVolution II) with the Break-Beam Sensor System enabled will give the highest performance.</td>
<td></td>
</tr>
<tr>
<td>BBSS turns itself off after firing.</td>
<td>Eye is dirty.</td>
<td>Clean the eyes.</td>
</tr>
<tr>
<td></td>
<td>Eye is faulty.</td>
<td>Replace the eyes.</td>
</tr>
<tr>
<td></td>
<td>Eye is out of place.</td>
<td>Re-Install Eyes, Check alignment.</td>
</tr>
</tbody>
</table>

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- [www.egoowners.com](http://www.egoowners.com)

**CERTIFIED ETEK EGO SERVICE CENTERS**

Are you unsure of where to send your Etek Ego to be repaired or serviced? If your local Etek dealer can't assist you, why not contact your nearest Certified Etek Service Center and arrange to send it into them to undertake any work that you require.
<table>
<thead>
<tr>
<th>SCREW</th>
<th>QTY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>x3</td>
<td></td>
<td>PCB SCREW</td>
</tr>
<tr>
<td>x8</td>
<td></td>
<td>RUBBER GRIP SCREW (6), BBSS COVERS SCREW (2)</td>
</tr>
<tr>
<td>x2</td>
<td></td>
<td>FEED NECK SCREW</td>
</tr>
<tr>
<td>x2</td>
<td></td>
<td>FRAME SCREW</td>
</tr>
<tr>
<td>x1</td>
<td></td>
<td>FRONT REGULATOR MOUNT SCREW</td>
</tr>
<tr>
<td>x1</td>
<td></td>
<td>INLINE REGULATOR ADJUSTER SCREW</td>
</tr>
<tr>
<td>x4</td>
<td></td>
<td>TRIGGER ADJUSTMENT SCREW</td>
</tr>
<tr>
<td>x1</td>
<td></td>
<td>SLIDE RAIL SCREW</td>
</tr>
<tr>
<td>x1</td>
<td></td>
<td>VALVE PLUG</td>
</tr>
<tr>
<td>x1</td>
<td></td>
<td>LPR ADJUSTER SCREW</td>
</tr>
<tr>
<td>x1</td>
<td></td>
<td>ON / OFF BLANKING PLUG</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>O-RING</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>016</td>
<td>Inside LPR body, inside Adjuster Section of Inline.</td>
</tr>
<tr>
<td>015</td>
<td>LPR Body if it is Black or Silver.</td>
</tr>
<tr>
<td>014 x2</td>
<td>LPR Piston.</td>
</tr>
<tr>
<td>013</td>
<td>Adjuster Piston.</td>
</tr>
<tr>
<td>012</td>
<td>Rear Rammer O-Ring, Rammer Cap O-Ring.</td>
</tr>
<tr>
<td>011</td>
<td>Inside LPR body, inside Adjuster Section of Inline.</td>
</tr>
<tr>
<td>010</td>
<td>Rammer Front Bumper, Rammer Front O-Ring.</td>
</tr>
<tr>
<td>009</td>
<td>Inline Adjuster Screw.</td>
</tr>
<tr>
<td>006</td>
<td>Small O-Ring on top of Front Reg Mount.</td>
</tr>
<tr>
<td>004</td>
<td>LPR Body if it is Gold.</td>
</tr>
</tbody>
</table>
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Players constantly want to shoot more fragile paint, yet still run their loaders at the highest possible speed to maximize their rates of fire. The new Cure bolt for the Ego and the Etek has been designed to allow you to achieve just that!

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