



# STEK

**OPERATORS MANUAL**



## WARNING:

**ADHERE STRICTLY TO THESE AND ALL OTHER SAFETY INSTRUCTIONS AND GUIDELINES.**

Warnings for safe Etek2 handling:

- The Etek2 is not a toy.
- Careless or improper use, including failure to follow instructions and warnings within this User Manual and attached to the Etek2 could cause death or serious injury.
- Do not remove or deface any warnings attached to the Etek2.
- 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 Etek2.
- Observe all local and national laws, regulations and guidelines.
- 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 Etek2.
- Use 0.68 calibre paintballs only.
- Keep the Etek2 switched off until ready to shoot.
- Treat every marker as if it is loaded.
- Never point the Etek2 at anything you do not intend to shoot.
- Do not shoot at persons at close range.
- Always measure your markers velocity before playing paintball, using a suitable chronograph.
- Never shoot at velocities in excess of 300 feet (91.44 meters) per second, or at velocities greater than local or national laws allow.
- Do not fire the Etek2 without the bolt in the breech, as high-pressure gas will be emitted.
- Do not fire the Etek2 without the bolt pin locked securely in place.
- Never look into the barrel or breech area of the Etek2 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 Etek2.
- Never allow pressurised gas to come into contact with any part of your body.
- Always switch off the Etek2 when not in use.
- Always fit a barrel-blocking device to the Etek2 when not in use on the field of play.
- Always remove all paintballs from the Etek2 when not in use on the field of play.
- Always remove the first stage regulator and relieve all residual gas pressure from the Etek2 before disassembly.



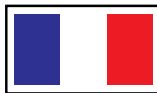
## WARNING:

**ADHERE STRICTLY TO THESE AND ALL OTHER SAFETY INSTRUCTIONS AND GUIDELINES.**

- The Etek2 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 Etek2 for transport and storage.
- Always follow guidelines given with your first stage regulator for safe transportation and storage.
- Always store the Etek2 in a secure place.



- 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 mode d'emploi, demandez conseil à un expert.



- ESTE MANUAL DE USUARIOS (OPERARIOS) 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 Sicherheitsrichtlinien und -bestimmungen.
- Sollten Sie sich in irgendeiner Weise unsicher sein. Oder den inhalt dieser heftes nicht verstehen, lassen Sie sich bitte von einem Experten beraten.

**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)**

## 6. ORIENTATION

This section names the component parts of the Etek2 Marker. This section is essential reading for everyone.

- 6. > GET TO KNOW YOUR ETEK2
- 8. > THE ETEK2 CONTROL CONSOLE

## 8. QUICK SET-UP

This section provides details on how to get up and running quickly with your Etek2. This section is essential reading for everyone.

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- 9 > SWITCHING OFF THE ETEK2.
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- 9 > USING THE ETEK2 BREAK-BEAM SENSOR SYSTEM

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## 42. SERVICE CENTRES

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## 44. PARTS LIST

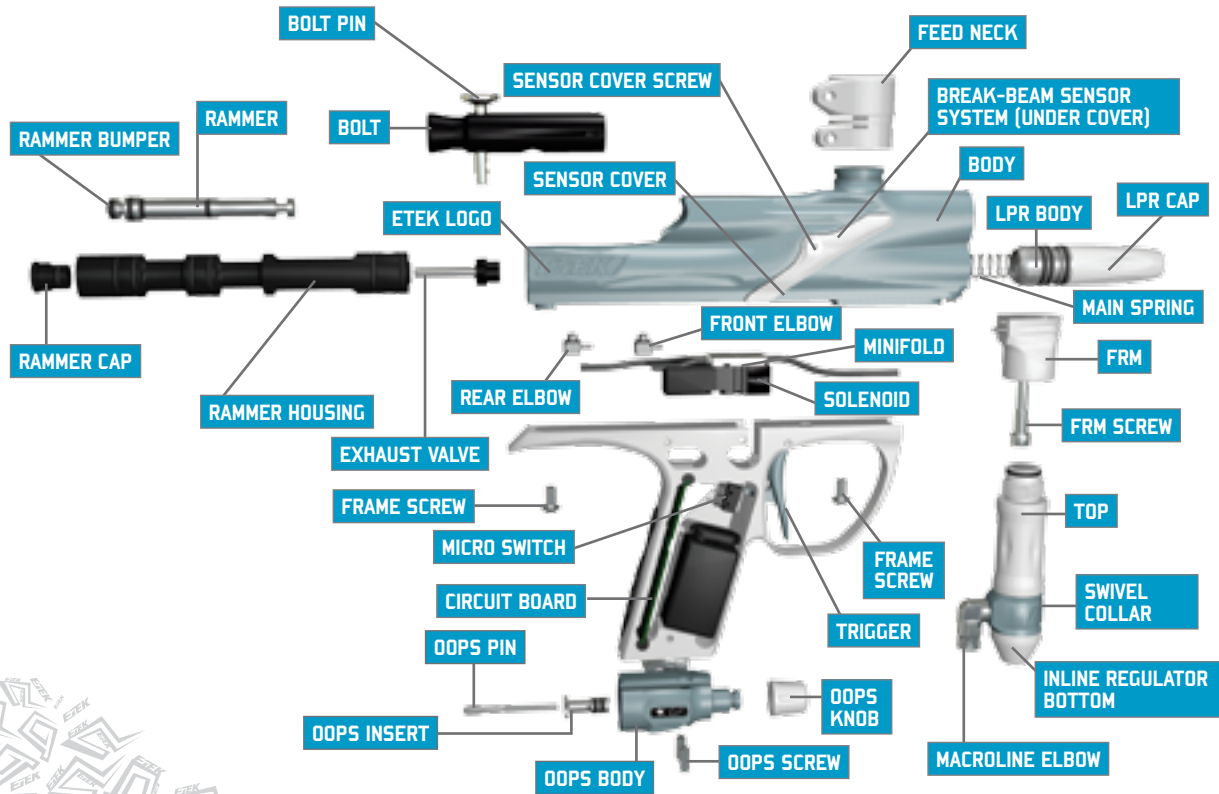
This section provides a table of components that make up the Etek2.

## 51. WARRANTY CARD

Tear-out product registration card to be completed and returned to Planet Eclipse. Alternatively register online at [WWW.PLANETECLIPSE.COM](http://WWW.PLANETECLIPSE.COM)

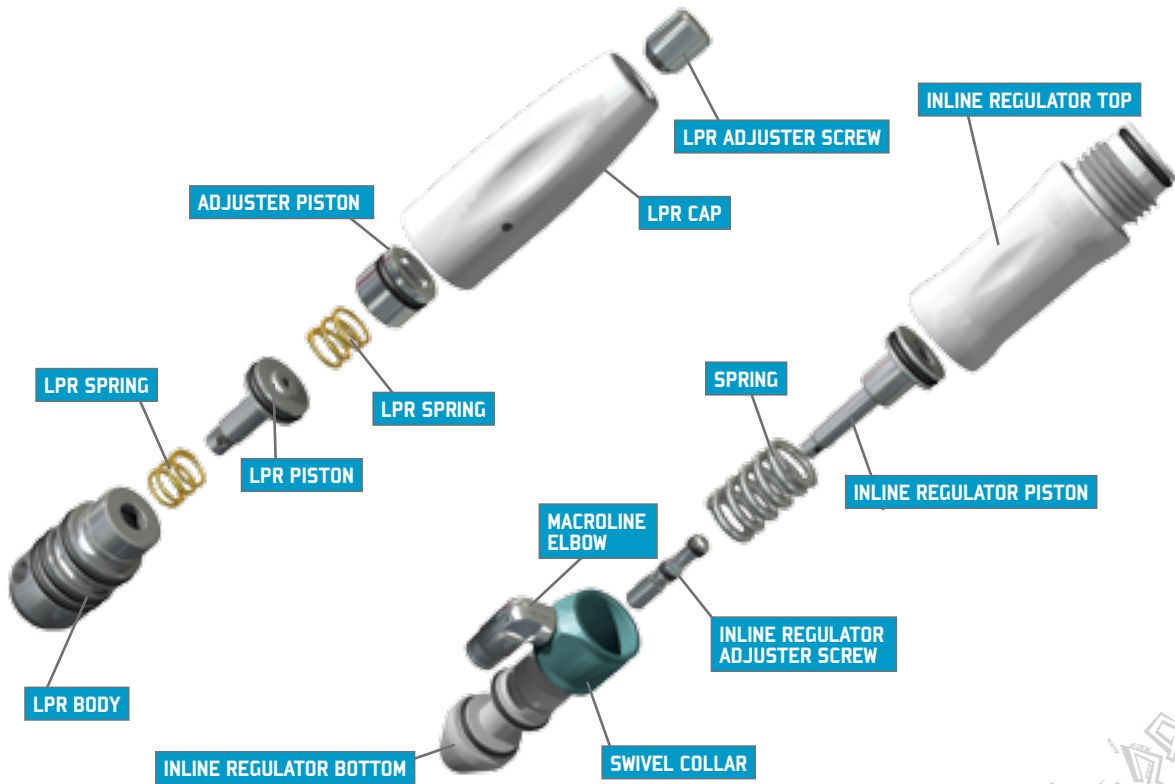
## 48. ACCESSORIES

Available upgrade / repair kits for your Etek2.



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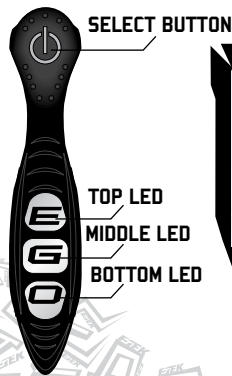
## ORIENTATION



# THE ETEK2 CONTROL CONSOLE

At the rear of the Etek2's grip frame you will find both the Select push button and three alphabetic LED covers which combine to form the Etek2's Control Console. The Control Console is used for several different purposes including:

- **TURNING THE ETEK2 ON AND OFF USING THE SELECT PUSHBUTTON.**
- **DISPLAYING THE VALUE OF PARAMETERS USING THE UID.**
- **SELECTING AND EDITING PARAMETERS USING THE SELECT PUSHBUTTON.**
- **DISPLAYING THE BATTERY LEVEL.**
- **TURNING THE ETEK BB55 ON AND OFF USING THE SELECT PUSHBUTTON.**



# INSTALLING A BATTERY

Ensure that the Etek2 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<sup>th</sup> (2mm) hex key, remove the three countersunk 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].

On top of the battery you will see the battery connector and wire that is used to connect the battery to the circuit board. Gently separate the battery connector from the battery, so that the existing battery can be disposed of accordingly and taking a new 9 volt Alkaline battery (type PP3, 6LR61, MN1064) connect it to the battery connector [SEE FIGURE 2.2]. Note: The battery will only connect to the battery connector one way. If you are unsure of how to install a new battery please contact your nearest Eclipse Service Centre.

Ensure that all of the wires are within the recess of the frame and then replace the rubber grip and tighten the countersunk grip screws using the 5/64<sup>th</sup> (2mm) hex key.

**DO NOT OVER-TIGHTEN THE SCREWS.**

**FIG 2.1**



**FIG 2.2**





## SWITCHING ON THE ETEK2

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 LED light up and your Etek2 will begin its power up sequence.

FIG 2.3



## SWITCHING OFF THE ETEK2

Press and hold the Select push button. Release the Select push button when all three of the LEDs on the control console turn red. The LEDs will extinguish one by one and the Etek2 will turn off.

## FIRING THE ETEK2

If the Break Beam Sensor System is disabled, pull the trigger to fire the Etek2. If the Break Beam Sensor System is enabled and there is a paintball in the breech, pulling the trigger will also fire the Etek2. The entire firing sequence is controlled electronically by the Etek2 circuit board and solenoid, enabling any user to achieve high rates of fire easily.

**NOTE: WHEN TURNING ON THE ETEK2, THE BREAK-BEAM SENSOR SYSTEM IS AUTOMATICALLY ENABLED.**

## USING THE BREAK BEAM SENSOR SYSTEM (BBSS)

When the Etek2 is powered up, the Break Beam Sensor System (BBSS) is automatically enabled.

To switch off the Break Beam 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 Etek2s Break Beam Sensor System are covered in full in the “Understanding the BBSS Operation” section on Page 14 of this User Manual.

**YELLOW LIGHT -  
NO BALL DETECTED.**



FIG 2.5

FIG 2.4

**RED LIGHT -  
BBSS DISABLED.**



**BLUE LIGHT -  
BALL DETECTED.**



**QUICK SET-UP**

**9**

## SETTING UP

Before you can begin to use your Etek2, there are a few necessary components that are required to enable the Etek2 to function; namely an air system and a loader of your choice.

**NOTE: THE ETEK2 CANNOT BE USED WITH CO2, IT CAN ONLY BE POWERED BY COMPRESSED AIR OR NITROGEN.**

## INSTALLING A PRESET AIR SYSTEM

Every Etek2 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 On/Off knob System to depress the pin of the preset air system causing the Etek2 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 Etek2.

FIG 3.2



FIG 3.3



## T-SLOT MOUNTING SYSTEM

The current industry standard Dovetail rail that is used to connect the ASA to the frame has consistently proved to be the weakest link for every manufacturer out there when it comes to the durability of the system used to mount the tanks to the guns. For that reason we have shunned the flawed design of the dovetail in favour of a new T-Slot design. By using a T-shaped slide rail, as opposed to the double V of the old fashioned dovetail, the ASA-To-Frame interface has been drastically strengthened. There should be no way that a well executed dive into a bunker should dislodge the ASA now, but even if you feel you have to go and use a different ASA there are still standard mounting holes in the frame to fit your own inferior rail and ASA.



## MACROLINE HOISING AND ELBOWS

To aid the longevity of your Macroline hosing, it is very important to remove it from (and install it back into) the fittings in the correct manner:

Pull back the collet section of the Macroline fitting and keep the collet depressed.

Pull the Macroline hose out of the Macroline fitting and release the collet.

Before installing the Macroline hose into the Macroline fitting ensure that the end has been trimmed correctly to ensure a tight fit in the fitting.



**WARNING: IF YOU EVER REMOVE THE MACROLINE HOSE FROM THE FITTING, ALWAYS CHECK THE CONDITION OF YOUR MACROLINE HOISING AND IF IT IS WORN OR THE WRONG LENGTH REPLACE IT IMMEDIATELY.**

# INSTALLING AN ADJUSTABLE AIR SYSTEM

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

Using a 3/32" hex key loosen the two set screws that tighten the OOPS body onto the bottom of the grip frame (SEE FIGURE 3.5). The OOPS body can now be removed from the T-Slot Rail on the bottom of the grip frame by sliding it backwards (SEE FIGURE 3.6) to expose the base of the frame.

As well as the integrated slide rail at the base of the Etek2s grip frame, there are also two 10-32 UNF threaded screw holes which will accept standard bottom line screws (SEE FIGURE 3.7).

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

FIG 3.4

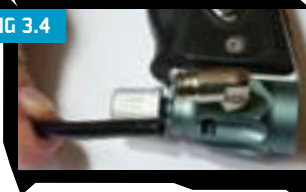


FIG 3.5



FIG 3.6



FIG 3.7



**NOTE: WHEN USING AN OOPS ON YOUR ETEK2, THE ETEK2 WILL STILL HAVE STORED AIR IN THE VALVE CHAMBER, GAS LINE AND INLINE 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.**

## ATTACHING A LOADER

Using a 5/32" hex key, turn the top screw of the feed tube counter clockwise until the feed neck of your loader can easily be pushed into the top of the feed tube (SEE FIGURE 3.8). Push your choice of loader firmly into the feed tube so that it rests on the shelf inside the feed tube (SEE FIGURE 3.9). Using a 5/32" hex key, tighten the top screw of the feed tube by turning it clockwise until the loader is firmly gripped (SEE FIGURE 3.10).

You have now attached a loader to your Etek2. Once you have filled your loader and air tank you will then be ready to begin using your Etek2.

FIG 3.8



FIG 3.9



FIG 3.10



## SWITCHING ON

Pressing and holding the Select pushbutton will switch the Etek2 on. Release the Select pushbutton when the UID lights up and your Etek2 will begin its power up sequence.



# THE CONTROL CONSOLE

The Etek2 utilises multi coloured LEDs to display all of the information that the user requires via the Etek2s 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 Etek2 On and Off.
- Switch the BBSS (eye system) On and Off.
- 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 Etek2 displays the status of the Break Beam Sensor System using the “E” area of the Control Console as follows:

INDICATION	BREACH SENSOR STATUS
Flashing Yellow	BBSS enabled (On), no paintball detected - marker will not fire.
Flashing Blue	BBSS enabled (On), paintball detected - marker will fire.
Flashing Red	BBSS disabled (Off) - marker will fire.
Double Flashing Red	Blockage detected, BBSS temporarily disabled (Off) - marker will fire.

Any changes to the Breach 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 Etek2, you may wish to change the velocity at which your Etek2 is firing. This is done by inserting a 1/8" hex key into the adjuster screw at the bottom of your Etek2 Inline regulator and adjusting it accordingly (SEE FIGURE 3.11). 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.**

FIG 3.11



## ADJUSTING YOUR LPR PRESSURE

When using your Etek2, you may wish to change the output pressure of your LPR. This is easily done by inserting a 5/32" inch hex key into the adjuster screw at the front and adjusting it accordingly (SEE FIGURE 3.12).

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.**

FIG 3.12



## SETTING THE TRIGGER

There are three adjustment points on the trigger – the Front Stop Trigger Screw, the Rear Stop Trigger Screw, and the Spring Tension Screw.

As standard each Etek2 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 counter clockwise to increase the amount of trigger travel [SEE FIGURE 4.1].

The Rear Stop Trigger Screw is used to set the amount of travel after the marker has fired. Turn this screw clockwise 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 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].

FIG 4.1



FIG 4.2



FIG 4.3





# THE TOURNAMENT LOCK

The Etek2 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 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 on the Etek2.
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 enabled.
4. Replace the three rubber grip screws using a 5/64" hex key.

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 Etek2.
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 disabled.
4. Replace the three rubber grip screws using a 5/64" hex key.

**NOTE: THE ETEK2 IS SHIPPED WITH THE TOURNAMENT LOCK DISABLED.**

FIG 4.4



FIG 4.5



# THE SET UP MENU

The Set Up Menu can only be entered if tournament lock is off. To activate the Set Up Menu, firstly ensure that the Etek2 is switched off. Pull and hold the trigger, 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:

COLOUR	PARAMETER	RANGE
Red	Firing Mode	1 to 5
Green	Maximum ROF with Breech Sensor (for capped modes only)	10.0 bps to 15.4 bps
Blue	Maximum ROF without Breech Sensor	10.0 bps to 15.4 bps
Magenta (Purple)	Dwell	1.0 ms to 15.0 ms
Cyan (Light Blue)	Debounce	1 to 10
Yellow	Ball Detection Time	1 ms to 10 ms

To display a parameter value, pull and release the trigger. The value of the currently selected parameter is indicated by the “E”, “G” and “O” on the Control Console flashing in turn, top to bottom. Each letter represents one digit of the value as follows:

For example a value of 14.5 would be displayed as:

- One flash of the “E”, followed by
- Four flashes of the “G”, followed by
- Five flashes of the “O”.

If a digit is zero then this is represented by no flashes on the area of the Control Console that represents that digit. For example a value of 3.0 would be displayed as:

- No flashes of the “E”, followed by
- Three flashes of the “G”, followed by
- No flashes of the “O”.

## 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. The value of the currently selected parameter is indicated by flashing the three letters on the Control Console as previously described.
4. When the sequence is complete, the “E” on the Control Console is illuminated. Release the trigger.
5. Pull the trigger up to 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 to 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 to 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.

If the value is accepted, it will then be saved as the new value for that parameter.

If the value is rejected, then the parameter will remain unchanged from how it was before you began modifying it.

Note: 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.

## THE FIRING MODE PARAMETER.

The Firing Mode Parameter is used to control the firing mode of the Etek2. 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 Etek2. 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 for the fact that the rate of fire is capped at the MAX ROF setting (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 pps (pulls per second), and allows this rate of fire to be 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 Etek2s.



## THE MAXIMUM RATE OF FIRE (CAPPED MODES).

The Maximum Rate of Fire in capped modes is used to control how fast the Etek2 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 is fully adjustable between 10.0 balls per second and 15.4 balls per second in 0.1 bps increments.



## THE MAXIMUM RATE OF FIRE (BBSS DISABLED).

The Maximum Rate of Fire with the BBSS disabled is used to control how fast the Etek2 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 10.0 balls per second and 15.4 balls per second in 0.1 bps increments.

This parameter should be set to match the slowest speed of the loading system in use.



## DWELL.

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 0.1ms increments.



## THE BALL DETECTION TIME.

The Ball Detection Time Parameter defines how long a paintball has to sit in the breech of the Etek2 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.



## DEBOUNCE.

The Debounce Parameter is used to set the level of Debounce (anti-bounce) on your Etek2.

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 RESET 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. Push 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.



# 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 ETEK2 EASIER TO WORK ON.**

Undo the retaining screw for the Break-Beam Sensor Cover on the left hand side of the Etek2 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 Etek2 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).

FIG 5.1



FIG 5.2



FIG 5.3



Remove the rubber finger detent and using a dry Q-tip clean the detent and it's location point in the Etek2 Body. Replace clean detent back into the Etek2 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 Etek2.  
You have now cleaned your Break-Beam Sensor System.

**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.**

FIG 5.4



FIG 5.5



FIG 5.6



# CLEANING THE INLINE REGULATOR



**WARNING: DE-GAS YOUR MARKER, DISCHARGING ANY STORED GAS IN A SAFE DIRECTION, AND REMOVE THE BARREL AND LOADER TO MAKE THE ETEK2 EASIER TO WORK ON.**

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 the spring from inside the regulator (SEE FIGURE 5.8).

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

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 5.10) and pull free when it will no longer turn upwards anymore.

FIG 5.7



FIG 5.8



FIG 5.9



FIG 5.10



**NOTE: THE ADJUSTER SCREW CAN ONLY BE REMOVED BY TURNING IT UPWARDS THROUGH THE BOTTOM SECTION OF THE INLINE REGULATOR. THE REGULATOR WILL BECOME DAMAGED IF THE ADJUSTER SCREW IS REMOVED INCORRECTLY.**



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 5.11). Using a light oil and a fresh Q-tip, re-lubricate the seal ready for re-assembly.

FIG 5.11



Thoroughly clean the two o-rings on the adjuster screw and lubricate ready for re-assembly (SEE FIGURE 5.12). Inspect top face of adjuster unit for any excessive wear or damage as this could cause inline regulator to creep (SEE FIGURE 5.13).

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

FIG 5.12



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 5.14). Apply light pressure to the top of the adjuster screw and using a 1/8th" 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 200 psi.

FIG 5.17



Next take the piston and spring 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 5.15). Insert the piston and spring into the top half of the inline regulator body (SEE FIGURE 5.16).

Keeping the top half of the inline regulator upside down, screw the two halves of the inline regulator together (SEE FIGURE 5.17).

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

FIG 5.13



FIG 5.14

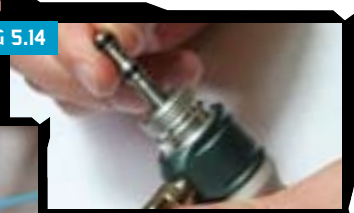
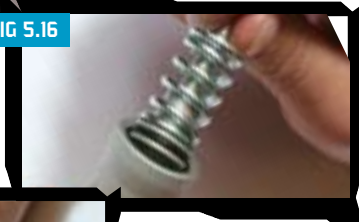


FIG 5.15



FIG 5.16



**NOTE: IF ANY SEALS ARE DAMAGED, REPLACE AS NECESSARY. EXTRA SEALS ARE AVAILABLE IN ETEK2 PARTS KITS AVAILABLE ONLINE AT [WWW.PLANETECLIPSE.COM](http://WWW.PLANETECLIPSE.COM).**

# CLEANING THE LPR



**WARNING: DE-GAS YOUR MARKER, DISCHARGING ANY STORED GAS IN A SAFE DIRECTION, AND REMOVE THE BARREL AND LOADER TO MAKE THE ETEK2 EASIER TO WORK ON.**

The Inline regulator can be removed if needs be.

Unscrew the low-pressure regulator cap from the Etek2 body (SEE FIGURE 5.18).

FIG 5.18



Remove the LPR piston and rear spring from the LPR cap (SEE FIGURE 5.19).

Cupping the palm of one hand, turn the LPR cap upside down and tip the front spring out into your palm (SEE FIGURE 5.20).

Remove the rear spring from the LPR piston and using a dry Q-tip, carefully clean the seal on the LPR piston (SEE FIGURE 5.21). 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.

FIG 5.19



FIG 5.20



FIG 5.21



**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 5.22).

Place the rear spring onto the LPR piston and insert piston and spring into the LPR cap, o-ring end first (SEE FIGURE 5.23).

Before screwing the LPR cap back onto your Etek2, use a dry Q-tip to clean the seal inside the LPR body (SEE FIGURE 5.24). Lubricate this seal using a light 3 in 1 oil.

Replace the LPR cap by screwing it onto the LPR body in the Etek2 (SEE FIGURE 5.25).

FIG 5.22



FIG 5.23



FIG 5.24



FIG 5.25



# CLEANING AND LUBRICATING THE RAMMER



**WARNING: DE-GAS YOUR MARKER, DISCHARGING ANY STORED GAS IN A SAFE DIRECTION, AND REMOVE THE BARREL AND LOADER TO MAKE THE ETEK2 EASIER TO WORK ON.**

Pull the bolt pin upwards so that it dis-engages the rammer, allowing the bolt to be removed via the rear of the Etek2 (SEE FIGURE 5.26).

Using a 3/16" hex key, unscrew and remove the rammer cap at the rear of the Etek2 (SEE FIGURE 5.27).

Raise the front of the Etek2 and tap the Etek2 onto your hand until the rammer falls into the palm of your hand (SEE FIGURE 5.28).

Thoroughly clean the rammer shaft and all of its seals, paying special attention to the seal on the middle of the shaft (SEE FIGURE 5.29), the rear seal (SEE FIGURE 5.30) and the condition of the bumper at the rear of the shaft (SEE FIGURE 5.31). Note: All these pictures are on the next page.

Replace any worn seals/bumpers using authentic Etek2 spare parts.

FIG 5.26



FIG 5.27



FIG 5.28



Lubricate all of the seals on the rammer shaft and replace the rammer into the rear of the Etek2 body with the bumper at the back (SEE FIGURE 5.32).

Note: Use light paintgun oil.

Replace the rammer cap, using the 3/16" hex key to secure it into the Etek2 body (SEE FIGURE 5.33).

Noting the position of the rammer in the Etek2 body (SEE FIGURE 5.34), replace the bolt and locate the bolt pin into the designated groove in the rammer shaft.

FIG 5.32



FIG 5.29



FIG 5.30



FIG 5.33



FIG 5.31



FIG 5.34



# HOW TO STRIP THE ETEK2



**WARNING: DE-GAS YOUR MARKER, DISCHARGING ANY STORED GAS IN A SAFE DIRECTION, AND REMOVE THE BARREL AND LOADER TO MAKE THE ETEK2 EASIER TO WORK ON.**

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

Using a 5/64th" hex key remove the six screws that attach the Etek2 grips to the Etek2 frame (SEE FIGURE 5.35).

Unplug the solenoid and unplug the Break-Beam sensors from their ports on the Etek2 printed circuit board (SEE FIGURE 5.36).

Using a 1/8" hex key undo the two frame retaining screws (SEE FIGURE 5.37) and remove the frame from the Etek2 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 5.38).

FIG 5.36



FIG 5.37



FIG 5.38

FIG 5.35



Using a 1/8th" hex key, remove the valve plug from the underside of the Etek2 body [SEE FIGURE 5.39].

Taking the Etek2 body, turn it so that the underside of the front regulator mount (FRM) is visible, exposing the retaining screw [SEE FIGURE 5.40]. Using a 3/16th" hex key remove the FRM retaining screw and remove the FRM from the Etek2 body [SEE FIGURE 5.41].

Once the FRM has been removed the LPR body is exposed through the bottom of the Etek2 body. Slide the complete LPR out of the Etek2 body [SEE FIGURE 5.42].

Slide the rammer assembly out of the rear of the Etek2, remembering to remove the valve and valve spring [SEE FIGURE 5.43].

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 Etek2 parts.

You have now stripped down your Etek2.

FIG 5.39



FIG 5.40



FIG 5.41



FIG 5.42



FIG 5.43





# ASSEMBLING THE ETEK2

Having stripped down the Etek2, 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 5.44). Slide the entire LPR back into the Etek2 body, so that the bottom of the LPR body lines up with the FRM window in the bottom of the Etek2 body (SEE FIGURE 5.45).

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 5.46). 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 5.47) and lubricate the exhaust valve shaft before inserting exhaust valve into the brass bushed valve guide (SEE FIGURE 5.48).

FIG 5.46



FIG 5.47



FIG 5.44



FIG 5.45



FIG 5.48





Remembering to include the valve spring, begin to insert the rammer assembly into the Etek2 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 5.49).

**NOTE: DO-NOT OVERTIGHTEN THE VALVE PLUG SCREW.**

Attach low-pressure hosing to the barb at the back of the FRM (SEE FIGURE 5.50).

FIG 5.49



FIG 5.50



## ...ASSEMBLING THE ETEK2

Carefully thread the solenoid and Break-Beam Sensor leads through the access hole in the top of the grip frame (SEE FIGURE 5.51), and reattach the grip frame to the marker, tightening the grip frame screws using a 1/8" hex key (SEE FIGURE 5.52).

Ensure that the Break-Beam Sensor cables lie neatly in the slots provided for them in the Etek2 grip frame. Connect the solenoid and the Break-Beam Sensors into their relevant places on the Etek2 PCB (SEE FIGURE 5.53). Install a 9volt battery by attaching it to the battery connector and re-attach the Etek2 grips by securing the six grip screws using a 5/64th" hex key (SEE FIGURE 5.54).

Screw the inline regulator back into the FRM (SEE FIGURE 5.55) and connect any hosing that was disconnected. Replace bolt and locate bolt pin in the designated groove in the rammer.

You have now assembled your Etek2.

FIG 5.51



FIG 5.52



FIG 5.53



FIG 5.54



FIG 5.55



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

## CLEANING THE BOLT

This procedure can be performed with the Etek2 gassed up as well as de-gassed.

Raise the bolt pin and remove the bolt and bolt pin from the Etek2 marker body.

Using a dry Q-tip remove any paint or grease from the surface of the bolt (SEE FIGURE 5.56).

Replace the bolt, locking the bolt pin into the designated slot in the rammer.

FIG 5.56



# 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 Etek2 so that you are left with the solenoid exposed (SEE FIGURE 5.60).

Using a small Philips head screw driver, undo the two solenoid retaining screws (SEE FIGURE 5.61) and remove the solenoid from the minifold taking care not to lose 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 5.62). 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 5.63). 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.

FIG 5.60



FIG 5.61



FIG 5.62



FIG 5.63



Thoroughly clean and inspect the spool and its O-rings for any debris or dirt (SEE FIGURE 5.64). 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 5.65 and FIGURE 5.66 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 manifold o-rings are in place; screw the solenoid back into the correct position on the manifold. 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 Etek2 solenoid.

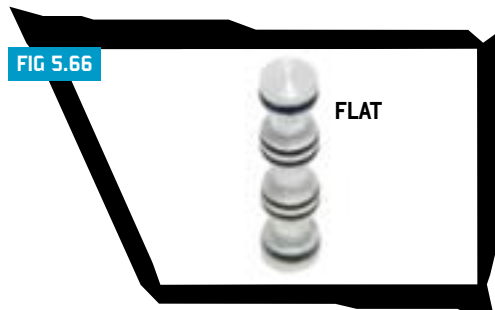
FIG 5.64



FIG 5.65



FIG 5.66



SYMPTOM	POSSIBLE CAUSE	SOLUTION
Although a fresh battery has been fitted, the Etek2 will not switch on.	The Battery harness wire is damaged.	Replace the battery harness or circuit board as necessary.
The battery does not seem to last very long.	The battery type is of a low quality.	Use an alkaline or metal hydride battery. Do not use a low quality or rechargeable battery.
The Etek2 leaks from the Solenoid	Check that gasket is intact and seated correctly in their designated pockets in the Minifold.	Replace gasket if damaged using Etek2 Parts kit. Ensure gasket is seated correctly.
	Dirt on Spool of Etek2 Solenoid.	Strip and clean solenoid ( See Maintenance Section ).
	Damaged Eclipse Etek2 Solenoid.	Replace Etek2 Solenoid.
	LPR is supercharging causing intermittent leaking.	Clean LPR Piston seal.
		Inspect regulator seal (in LPR Piston) and regulator seat (in LPR Body). Replace if necessary.
	Check for damaged or incorrect seals on Rammer.	Replace seals.
	Is it leaking from the Barbs?	Check hose for cuts or replace minifold.
14 x 2 O-Rings on LPR Body are damaged causing over pressurising.	Replace 14 x 2 O-Rings on LPR Body.	

<b>SYMPTOM</b>	<b>POSSIBLE CAUSE</b>	<b>SOLUTION</b>
The Etek2 leaks down barrel	Leaky Exhaust Valve. Damaged Valve Seat. Incorrect seal on front of Rammer Housing.	Replace Exhaust Valve. Replace Rammer Housing. Replace front seals on Rammer Housing with 016 seals.
Gas vents quickly down barrel as soon as it is gassed up.	The Exhaust Valve has become jammed in the brass valve guide.	Replace Exhaust Valve and brass valve guide as necessary ( see Maintenance Section ).
The marker is chopping or trapping paint.	The Break-Beam Sensor System is switched off.	Switch on the Break-Beam Sensor System. Increase the ball detection time.
	The Bolt is dirty, causing the sensor system to incorrectly detect a retracted bolt.	Clean the Bolt.
	The Break-Beam Sensor System is dirty causing the incorrect detection of paintballs.	Clean the Break-Beam Sensor System.
The Etek2 fires yet bolt doesn't move.	Bolt pin is not located in Rammer correctly.	Lift Bolt pin and line up with position of rammer correctly ( See Maintenance Section ).
The Etek2 does not fire.	Trigger is set up incorrectly.	Set trigger up correctly ( See Advanced Set-Up Section ).
	Solenoid is not plugged into the Etek2 PCB.	Plug solenoid into port on the Etek2 PCB.
	The Break-Beam Sensor System is enabled but there is no paint.	Fill loader with paint / switch off BBSS.

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Low Velocity First Shot.	DWELL parameter is too low to overcome stiction on Solenoid and / or Rammer O-rings.	Increase DWELL parameter.
High Velocity First Shot.	DWELL parameter set too high.	Reduce DWELL parameter.
	Inline Regulator pressure creeping.	Strip and clean Inline Regulator. Replace Inline Regulator piston if necessary.
My Trigger is very “Bouncy”, how can I reduce it?	Too low Debounce setting.	Increase Debounce setting.
	Lengthen and strengthen your trigger pull.	Refer to Advanced Set-Up Section for guidelines of how to adjust your Etek2 Trigger accordingly.
The Break-Beam Sensor System does not appear to be reading correctly.	The Break-Beam Sensor System is dirty.	Keep the Break-Beam Sensors clean to ensure correct readings ( See Maintenance Section ).
	Break-Beam Sensors are the wrong way around.	Check that the red receiver is on the right-hand side of the Breech.
The Break-Beam Sensor System is not reading at all.	There is a broken wire or contact, or a short circuit on either of the Breech Sensor ribbon cables.	Check the plug of the cables.  Check for cuts or pinches in the sensor cables.
	Either sensor is back to front.	Check that the sensors face each other when installed.



SYMPTOM	POSSIBLE CAUSE	SOLUTION
Two or more balls are being fed into the breech.	If the Etek2 is being used with a force feed loader, it is possible that the loader is forcing balls past the ball detent.	Check that the sensors face each other when installed.
		Change the rubber finger detents.
Etek2 is inconsistent.	Inline Regulator is supercharging.	Strip and clean Inline Regulator ( See Maintenance Section ).
Leaking Rammer Assembly ( Leak gets louder when bolt is removed ).	Front ram shaft seal deteriorated.	Replace front Rammer Shaft seal.
How can I get the best performance out of my gun?	Check your set-up.	Using a force-fed loader ( Halo B, VLocity, Pulse) with the Break-Beam Sensor System enabled will give the highest performance.
BBSS turns itself off after firing.	Eye is dirty.	Clean the eyes.
	Eye is faulty.	Replace the eyes.
	Eye is out of place.	Re-Install Eyes. Check alignment.
OOPS leaks from front hole (nearest on/off knob).	006 NBR 90 O-Ring too dry.	Lubricate 006 NBR 90 O-Ring with Eclipse Oil.
	006 NBR 90 O-Ring damaged.	Replace 006 NBR 90 O-Ring.
OOPS leaks from rear hole (nearest Tank).	Tank O-Ring is damaged.	Replace the Tank O-Ring.

# CERTIFIED ETEK2 SERVICE CENTERS

Are you unsure of where to send your Etek2 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.

## UNITED KINGDOM & EUROPE

### PLANET ECLIPSE LTD

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**Call:** +44(0)161 872 5572  
**Fax:** +44(0)161 872 5972  
**Email:** technical@planetecclipse.com  
**Visit:** www.planeteclipse.com

### ACTION PAINTBALL GAMES

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**Fax:** +7(0) 95 7851 738  
**Email:** info@paintball.ru  
**Visit:** www.paintball.ru

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**Fax:** ++34 986 730 131  
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**Fax:** ++49(0) 211 210 23030  
**Email:** salesforce@paintball.de  
**Visit:** www.paintball.de

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**Call:** +33(0)1 41 091004  
**Fax:** +33(0)1 41 091009  
**Email:** atelier@paintballcamp.com  
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**Fax:** ++351 214 120 144  
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**Call:** ++61 1 300 972468

**Email:** daniel@extremeindoorpaintball.com.au

**Visit:** www.extremeindoorpaintball.com.au

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**Fax:** ++27 413640549

**Email:** info@paintballshop.co.za

**Visit:** www.paintballshop.co.za

SCREW	QTY	DESCRIPTION
	x8	RUBBER GRIP SCREW (6), BBSS COVERS SCREW (2) (6 - 32 UNC x 3/8 COUNTERSUNK SOCKET)
	x2	SHORT FEED NECK SCREW (10 - 32 UNF x 1/2 CAP HEAD SOCKET)
	x2	SHORT FRAME SCREW (10 - 32 UNF x 3/8 SOCKET BUTTON HEAD)
	x1	FRONT REGULATOR MOUNT SCREW (CUSTOM MANUFACTURED)
	x1	INLINE REGULATOR ADJUSTER SCREW (CUSTOM MANUFACTURED)
	x3	TRIGGER ADJUSTMENT SCREW (6 - 32 UNC x 3/16 SOCKET SET SCREW)
	x2	T RAIL SCREW (10 - 32 UNF x 1/2 SOCKET SET SCREW)
	x1	VALVE PLUG (CUSTOM MANUFACTURED)
	x1	LPR ADJUSTER SCREW (5/16 UNF x 3/8 SOCKET SET SCREW)
	x2	MICRO - SWITCH RETAINER SCREW (M2 x 10)

O-RING		LOCATION
016		Rammer Housing, Feed Stub. LPR Body*.
015		Inline Regulator piston, Front Reg Mount / Body Interface, Inline Regulator Top.
014x2		LPR Body*.
013		LPR Piston.
012		Adjuster Piston.

O-RING		LOCATION
011		Rear Rammer O-Ring, Rammer Cap O-Ring.
010		Inside LPR body, inside Adjuster Section of Inline, Front of OOPS, LPR Cap.
009		Rammer Front Bumper, Rammer Front O-Ring.
008		OOPS Insert middle O-Ring.
006		Inline Adjuster Screw, OOPS Insert Front O-Ring.
004		Small O-Ring on top of Front Reg Mount.

\* = Either 016 or 14 x2 O-Rings can be used on the LPR body due to the fact that it now has three sealing o-rings.



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PARTS LIST



## PART NAME

01	Valve Guide	26	FRM Bolt	51	Bolt Pin
02	Banjo Barb	27	Frame	52	Bolt Plunger
03	Rammer Cap	28	Trigger	53	Bolt Plunger Spring
04	Rammer Cap O-Ring	29	Printed Circuit Board	54	Feed Tube
05	Valve Plug	30	Magnet	55	Feed Tube Screw
06	Front Rammer O-Ring	31	Trigger Adjuster Screw	56	Body
07	Front Rammer Bumper O-Ring	32	Trigger Pin Locking Screw	57	1/4" Elbow
08	Rear Rammer O-Ring	33	Push Buttons	58	1/4" Hose
09	Exhaust Valve Assembly	34	PCB Holder	59	OOPS Body
10	Solenoid	35	Grip Screw	60	OOPS Pin
11	Minifold	36	Navigation Console	61	OOPS On/Off Knob
12	Minifold Barb	37	Frame Screw	62	OOPS Insert
13	Solenoid Retaining Screw	38	Trigger Pin	63	OOPS Adjuster Screw
14	Low Pressure Hose	39	Swivel Collar	64	On/Off Button
15	LPR Cap	40	Inline Regulator Top	65	Rammer Housing
16	LPR Adjuster Screw	41	Inline Regulator Bottom	66	Rammer Housing O-Ring
17	LPR Piston	42	Inline Regulator Piston	67	Rubber Grip
18	LPR Piston O-Ring	43	Inline Regulator Piston O-Ring	68	Insert Front O-Ring
19	Adjuster Piston	44	Inline Regulator Spring	69	Insert Middle O-Ring
20	Adjuster Piston O-Ring	45	Inline Regulator Adjuster	70	Inline Reg Bottom Groove O-Ring
21	LPR Spring Heavy (Gold)	46	Inline Regulator Adjuster O-Ring	71	Micro Switch
22	9 Volt Battery	47	Inline Regulator Top O-Ring	72	LPR Cap O-Ring
23	LPR Body	48	Anti-Double Ball Finger	73	Rear Rammer Bumper
24	LPR Body O-Ring	49	Valve Spring		
25	LPR Body Groove O-Ring	50	Bolt		



### ETEK STAR FRAME KIT

Enhance the performance of your Etek marker by installing the Etek STAR Frame Kit. Every aspect of the marker to player interface has been improved from the ball raced trigger to the cool blue LCD display of the circuit board to the array of new user - adjustable parameters. We won't let your Etek down; why should you?

#### FEATURES

LCD DISPLAY, DUAL TRIGGER SENSING BOARD, DUAL INSTRUMENT GRADE BALL - RACED TRIGGER, MAGNETIC TRIGGER RETURN, T - SLOT RAIL MOUNTING SYSTEM AND ADAPTOR AND FULLY STRIPPABLE ETEK QEV.

### ETEK ZICK KIT.

Zick? What kick? Add the Etek ZICK Kit to your Etek marker and the existing amount of kick will be reduced even further. Include a replacement rammer and rammer cap that must only be used together.



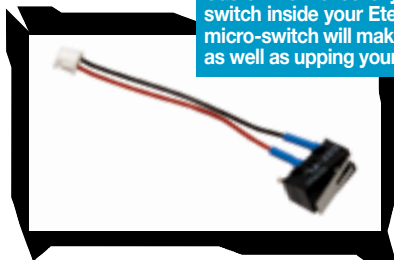
### CURE BOLT.

Players constantly want to shoot more fragile paint, yet still run their loaders at the highest possible speed to maximise their rates of fire. The Cure bolt for the Ego and the Etek has been designed to allow you to achieve just that!



### **MICRO SWITCH.**

Customize the feel of your Etek2 by replacing the micro-switch inside your Etek2's trigger frame. This lightened micro-switch will make the trigger feel more responsive as well as upping your potential rate of fire.



### **EGO CCU KITS**

#### **CONTRAST COLOUR UPGRADE KITS.**

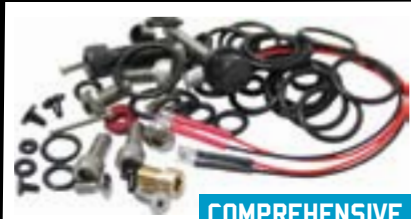
This unique kit allows you to swap and customize the look of your Etek marker by replacing these key components. Available in various colours.



### **CLEVER FEED.**

Makes fitting your loader a breeze.  
Available in various colours.





### COMPREHENSIVE SPARES KIT.

Kit features a combination of all the required spares for the Etek2.



### DETENT KIT.

10 Replacement rubber Detents for your Etek2.

### '08 STRIPE KITBAG.

What better place to keep your Etek2?



### '08 STRIPE LAPTOP BAG

Transport your Laptop in style with the new '08 Laptop Bag.



