

OWNER'S MANUAL



HIGH PERFORMANCE PAINTBALL MARKER

WARNINGS

READ CAREFULLY BEFORE USE

-  **THE STEALTH IS NOT A TOY. PAINTBALL SAFETY RULES MUST BE FOLLOWED AT ALL TIMES.** This product contains one or more chemicals that are known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.
-  Careless or improper use of the STEALTH, including failure to follow instructions and warnings within this User Manual could cause serious injury or death.
-  Do not remove or deface any warnings attached to the STEALTH.
-  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 the user and any person within range. Proper protection must be worn during assembly, cleaning and maintenance.
-  Hearing protection should be worn.
-  Never shoot at a person who is not wearing proper protection.
-  Never look directly into the barrel of the marker. Accidental discharge into the eyes may cause permanent injury or death. Never look into the barrel or breech area of the STEALTH whilst the marker is switched on and able to fire.
-  The electronic On/Off button is the marker's disabling device, also known as the 'safety'. Always switch off the STEALTH when not in use and only switch on when ready to shoot.
-  Treat every marker as if it is loaded and ready to fire.
-  Always fit a barrel-blocking device to the STEALTH when not in use.
-  Always remove paintballs from the STEALTH when not in use.
-  Do not field strip or remove any parts while the marker is pressurised.
-  Do not pressurise the STEALTH without all the components of the marker correctly installed, as high-pressure gas may be emitted.
-  Do not fire the STEALTH without the bolt correctly installed.
-  Never put your finger or any foreign objects into the paintball feed tube of the STEALTH.
-  Never allow pressurised gas to come into contact with any part of your body.
-  Always remove the first stage regulator and relieve all residual gas pressure from the STEALTH before disassembly.
-  Always remove the first stage regulator and relieve all residual gas pressure from the STEALTH for transport and storage.
-  Always follow the guidelines given with your first stage regulator for safe transportation and storage.
-  Always store the STEALTH in a secure place.
-  Observe all local and national laws, regulations and guidelines.

WARNINGS

READ CAREFULLY BEFORE USE

-  Persons under 18 years of age must have adult supervision when using or handling the STEALTH.
-  Only use professional paintball fields where codes of safety are strictly enforced.
-  Only use compressed air/nitrogen. Do not use any other compressed gas or pressurised liquid including CO2.
-  Always follow instructions, warnings and guidelines given with any first stage regulator you use with the STEALTH.
-  Use 0.68 inch calibre paintballs only.
-  Always measure your marker's velocity before playing paintball, using a suitable chronograph.
-  Never shoot at velocities in excess of 300 feet (91.44 metres) per second, or at velocities greater than local or national laws allow.
-  Any installations, modifications or repairs should be carried out by a qualified individual at a licensed and insured paintball facility.

WARNING!

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.



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 of 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 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 Inhalte dies Heftes nicht verstehen, lassen Sie sich bitte von einen Experten beraten.

QUICK START (06-16)

- 06 Setting up the STEALTH
- 08 Switching the STEALTH On/Off
- 09 OLED indicators
- 10 Switching the STEALTH On/Off (LED)
- 11 LED indicators
- 12 Velocity adjustment
- 13 Trigger adjustment
- 14 Unloading the STEALTH
- 16 Storage and transportation

MAINTENANCE

- 17 Online maintenance videos

ELECTRONICS (18-23)

- 18 The OLED set-up mode
- 19 OLED parameters
- 22 The LED set-up mode
- 23 LED parameters

RESET (24-25)

- 24 Factory reset
- 25 Installing a 9V battery

FAULT FINDING (26-29)

- 26 Fault finding tables

TECHNICAL INFORMATION (30-41)

- 30 Parts list
- 32 Tournament lock button
- 33 AT pipe (Air Transfer pipe)
- 34 SL4 inline regulator
- 35 Gamma Core bolt assembly
- 36 Solenoid assembly
- 37 Push On Purge System (POPS) assembly
- 38 Trigger assembly
- Clamping feed tube assembly
- 39 Circuit board
- OLED board
- 40 Frame assembly
- 41 Breech Sensor (BS) assembly

SUPPORT (42-47)

- 42 Index
- 43 Our promise
- 44 Notes
- 45 Warranty card
- 47 Notes

WE GOT YOUR BACK!

OUR ARMY OF PLANET ECLIPSE PRO TECHS ATTEND PAINTBALL EVENTS ALL OVER THE WORLD TO MAKE SURE THAT YOU AND YOUR ECLIPSE MARKER ARE FIRING ON ALL CYLINDERS, AT ALL TIMES.



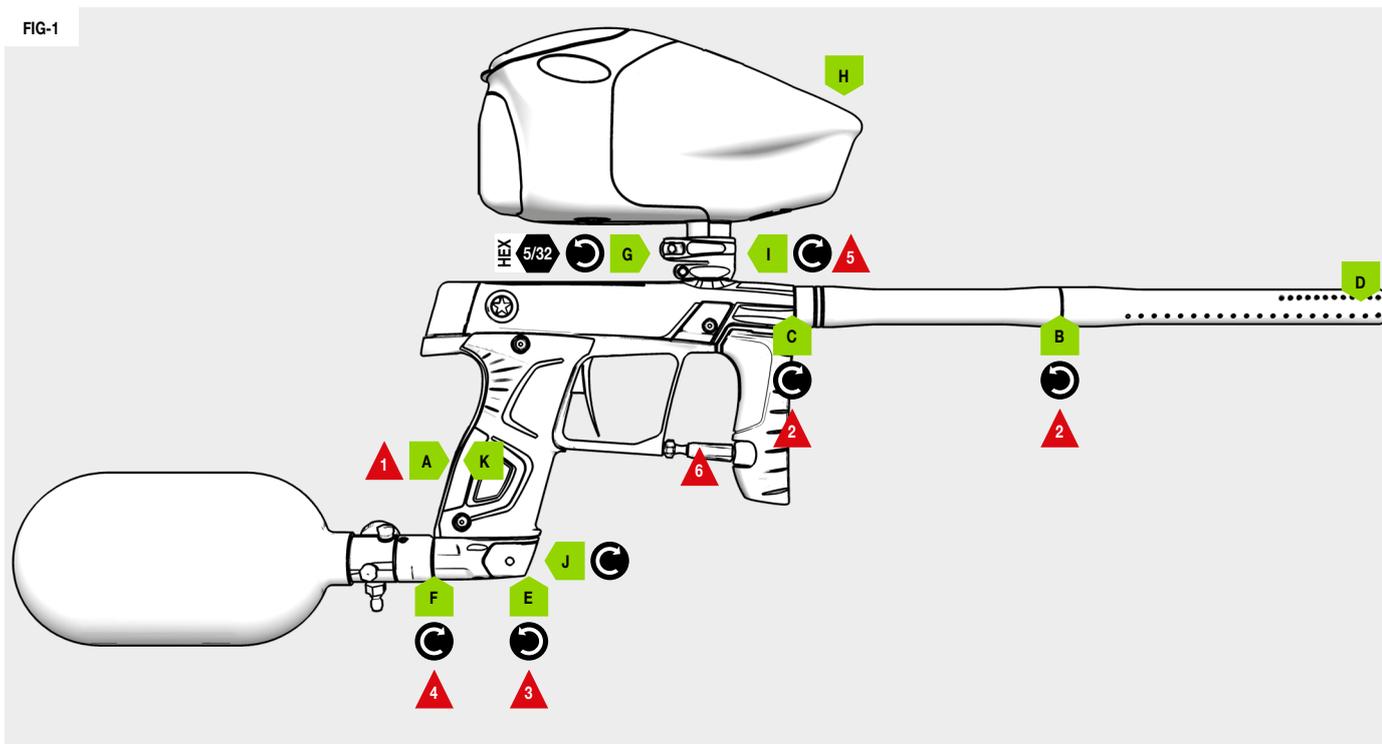
FOLLOW OUR OFFICIAL PLANET ECLIPSE SOCIAL MEDIA CHANNELS TO KEEP UP TO DATE WITH OUR TECH SUPPORT EVENTS CALENDAR.



QUICK START

SETTING UP THE STEALTH

FIG-1



QUICK START

SETTING UP THE STEALTH

FIG-1

- A Ensure the marker is switched off before you begin.**
- B Screw both ends of the barrel together.**
Screw the barrel tip counter-clockwise onto the barrel back.
- C Screw the complete barrel to the marker.**
The barrel back screws clockwise into the marker body.
- D Fit a barrel blocking device for safety.**
- E Ensure the marker is de-gassed.**
Push and hold the POPS button and pull the POPS bonnet away from the POPS body.
- F Attach the pre-set air system.**
Screw the air system clockwise into the POPS body.
- G Loosen the clamping feed neck.**
Open the feed neck lever away from the feed neck.
Unscrew the feed neck lever screw counter-clockwise.
- H Attach the loader.**
If the feed neck is too tight, loosen the clamping feed neck more.
- I Secure the loader.**
Close the feed neck lever to secure.
Screw the feed neck lever screw clockwise to tighten.
- J Gas the marker.**
Pull the POPS bonnet towards the POPS body until it engages.
- K Switch on the STEALTH.**

- 1 IMPORTANT!** To switch On/Off, see pages 8-11.
- 2 DO NOT** over-tighten the barrel.
- 3 ALWAYS** ensure the marker is de-gassed when setting up.
- 4 NEVER** use CO2. Compressed air or Nitrogen only.
- 5 DO NOT** over-tighten the feed neck. This may damage the marker.
- 6 IMPORTANT!** Ensure the AT pipe is correctly installed.

WARNING!



Always ensure that the marker is off with a barrel blocking device installed and that no paintballs are in the STEALTH or loader before installing an air system.

Compressed air and nitrogen systems can be extremely dangerous if handled or used incorrectly.

Only attach an air system certified for use within the country of use.

Never add lubricants or grease into the fill adaptor of the air system regulator.

Ensure that all screws are tightened and no parts are loose before installing an air system.

Do not pressurise the STEALTH without the bolt system correctly installed, as high pressure gas will be emitted.

Do not install a compressed air system or load paintballs into the STEALTH until you feel confident with your ability to handle the marker safely and responsibly.

QUICK START

SWITCHING THE STEALTH ON/OFF

The navigation console **A** houses the Select button **B**, the LED indicator **C** and the OLED display **D**. Use the console to switch the STEALTH On/Off and change the marker settings.

The LED indicator provides secondary functionality in the event of any OLED board issues you may have (see pages 22-23).

FIG-1

Switching on the STEALTH

Press and hold the Select button. Release the Select button when the OLED display and LED light up and your STEALTH will begin its power up sequence.^{1,2}

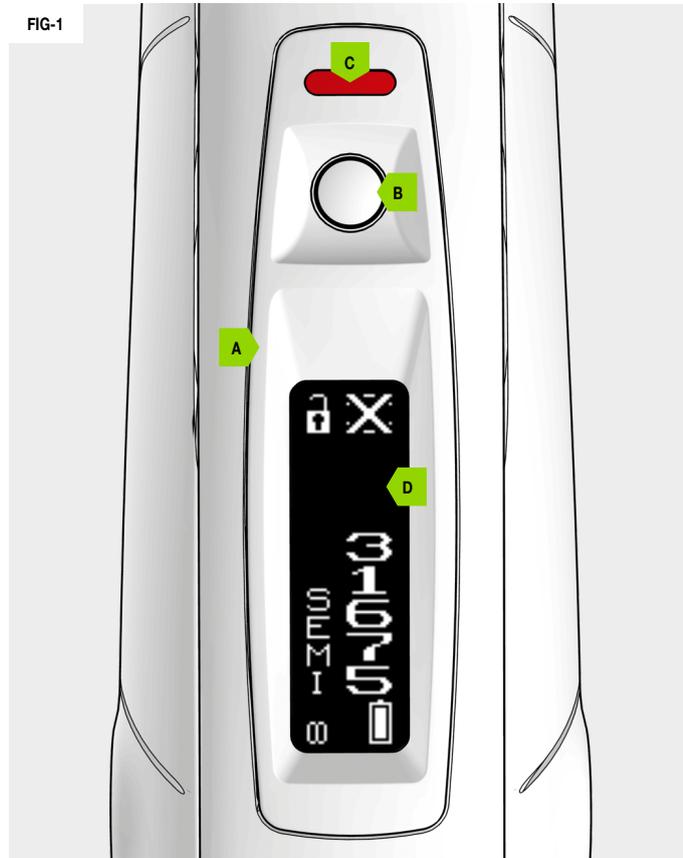
Firing the STEALTH

Pull the trigger to fire the STEALTH. If the marker is able to fire then it will do so.

Switching off the STEALTH

Press and hold the Select button until the display shows GOODBYE and the LED turns red. Release the Select button.

FIG-1



- 1 When the STEALTH is turned on, the breech sensor is automatically enabled.
- 2 The LED colours displayed during the power up sequence may vary depending on where the marker was originally purchased.

WARNING!



Do not dry fire/shoot the marker without paintballs. Prolonged dry firing may lead to damage/wear of the internal components of the marker.

QUICK START

OLED INDICATORS

FIG-1

The breach sensor (BS) indicator **A** shows the following information:



BS Enabled and ball detected

The STEALTH can be fired up to the BS ON ROF (see page 19).



BS Enabled no ball detected

The STEALTH cannot be fired.



BS Disabled

The STEALTH can be fired up to the BS OFF ROF (see page 19).



BS Fault detected

System is disabled. The STEALTH can only be fired at a reduced maximum rate of fire.

The battery level indicator **B** shows the following information:



Full battery

The battery is fully charged.



Drained battery

Battery is at approximately 30% of useful charge.

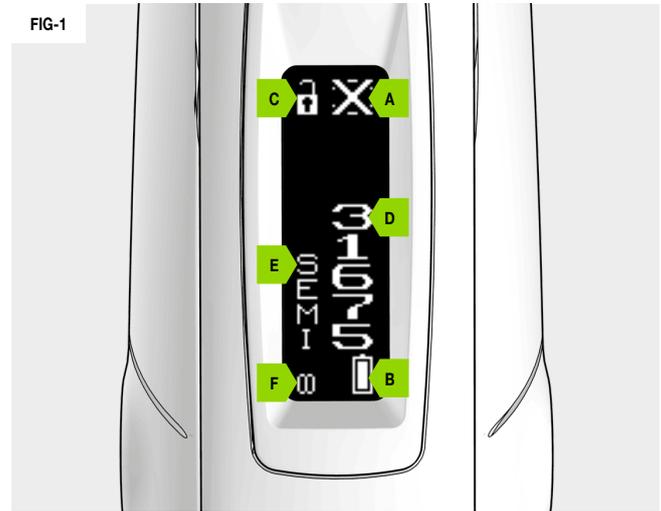


Battery circuit fault

The battery level cannot be determined.

For more information about the shot counter **D** and firing modes **E** and **F** see pages 18-19.

FIG-1



The lock indicator **C** shows the following information:



Locked

Set-up mode cannot be accessed.
This is the tournament legal state.



Unlocked

Set-up mode can be accessed.

To change the tournament lock state see page 32.

WARNING!



When the battery indicator is being displayed the marker is still on and will fire if the trigger is pulled - depending on the BS status.

QUICK START

SWITCHING THE STEALTH ON/OFF (LED)

If the OLED board is unplugged from the STEALTH circuit board it is still possible to operate the marker.

FIG-1

To switch the STEALTH on press and hold the Select button **A**. Release the Select button when the LED **B** lights up and the power up sequence will begin. At the end of the power up sequence the LED Indicator will show the status of the breach sensor (see table 1).^{1,2}

TABLE 1

LED COLOUR	BREECH SENSOR (BS) STATUS
FLASHING YELLOW	BS enabled. NO paintball detected. Marker WILL NOT fire.
FLASHING LIGHT BLUE	BS enabled. Paintball detected. Marker WILL fire.
FLASHING PURPLE (SLOW)	BS disabled. Marker WILL fire.
FLASHING PURPLE (FAST)	Blockage detected. BS disabled. Marker WILL fire.

To switch the STEALTH off press and hold the Select button. Release the Select button when the LED turns red. The STEALTH will now switch off.

- When the STEALTH is turned on, the breach sensor is automatically enabled.
- The LED colours displayed during the power up sequence may vary depending on which part of the world the marker was originally purchased.

FIG-1



QUICK START

LED INDICATORS

FIG-1

Periodically, every 6 seconds or so, the LED indicator **B** will show the battery status with a steady colour for 1 second.

You can also check the battery status at any time when the marker is switched on:

- 1 Tap the Select button **A**.
- 2 The LED indicator **B** will turn a steady colour for 1 second.

Table 2 (below) shows each LED colour and its relevant battery status.

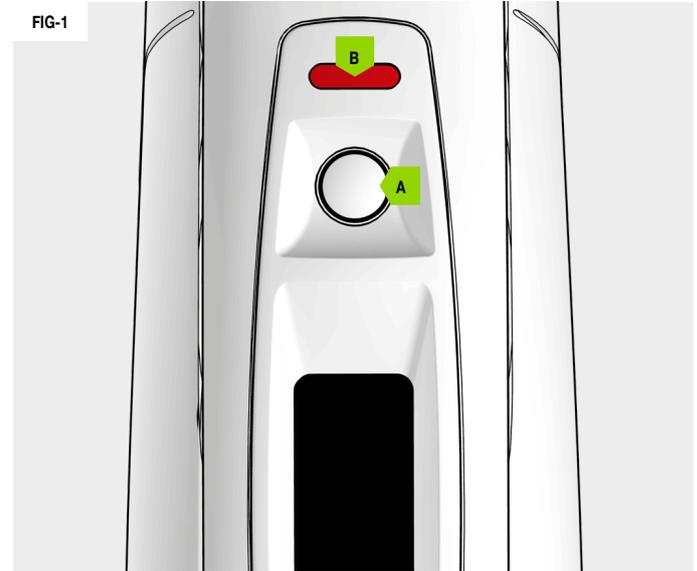
TABLE 2

LED COLOUR	BATTERY STATUS
GREEN	Battery level is good.
YELLOW	Battery level is low.
RED	Replace the battery.

The LED also indicates the various marker parameter settings.

See pages 22-23 for marker parameter LED indicators.

FIG-1



Firing the STEALTH

Pull the trigger to fire the STEALTH. If the marker is able to fire then it will do so.

WARNING!



When the battery indicator is being displayed the marker is still on and will fire if the trigger is pulled - depending on the BS status.

Do not dry fire/shoot the marker without paintballs. Prolonged dry firing may lead to damage/wear of the internal components of the marker.

QUICK START VELOCITY ADJUSTMENT

FIG-1

Insert a 1/8 hex key **A** into the velocity adjuster screw **B** to alter the velocity of the STEALTH.

- 1 Turn the hex key clockwise to reduce velocity.
- 2 Turn the hex key counter-clockwise to increase velocity.
- 3 Fire two clearing shots after each velocity adjustment for an accurate velocity reading.

1 **DO NOT** turn the adjuster screw in too far. This will prevent the STEALTH from firing.

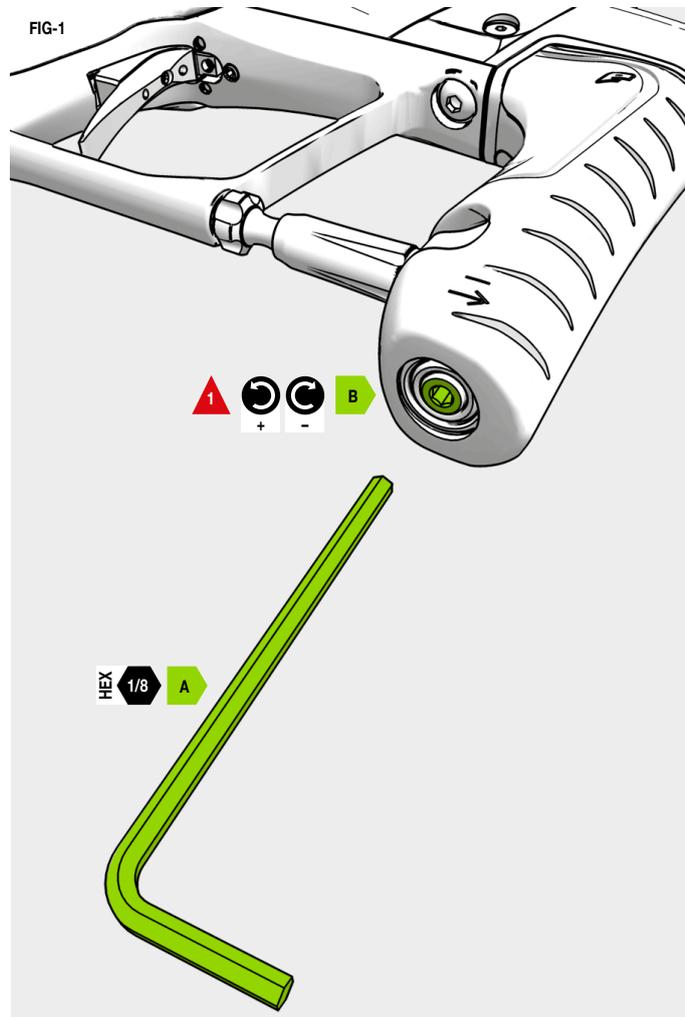
WARNING!



DO NOT exceed 300FPS.

Always wear correct protective equipment when firing your marker.

NEVER point your marker in the direction of other people when not on the field.



QUICK START

TRIGGER ADJUSTMENT

FIG-1

The trigger spring screw **A** adjusts the spring strength of the trigger return. Clockwise increases strength, counter-clockwise reduces it.

The trigger shoe retaining screw **B** is only to be removed to change to a new shape trigger shoe (sold separately). Counter-clockwise removes the screw, clockwise tightens it.

The microswitch screw **C** sets the microswitch actuation point. Clockwise reduces it, counter-clockwise increases it.

The pre-travel screw **D** adjusts the distance the trigger travels before the microswitch is actuated. Clockwise reduces the amount of travel, counter-clockwise increases the amount of travel.

The post-travel screw **E** adjusts the distance the trigger travels once the microswitch has been actuated. Clockwise reduces the amount of travel, counter-clockwise increases the amount of travel.

WARNING!



Always make sure the marker is OFF and de-gassed with a barrel blocking device installed and no paintballs are in the marker or loader before adjusting the trigger.

Do not wind the screws in too far as this may prevent the STEALTH from firing or even damage the marker.

If the pre-travel screw and/or the microswitch screw is wound in too far this could cause the STEALTH to fire unintentionally.

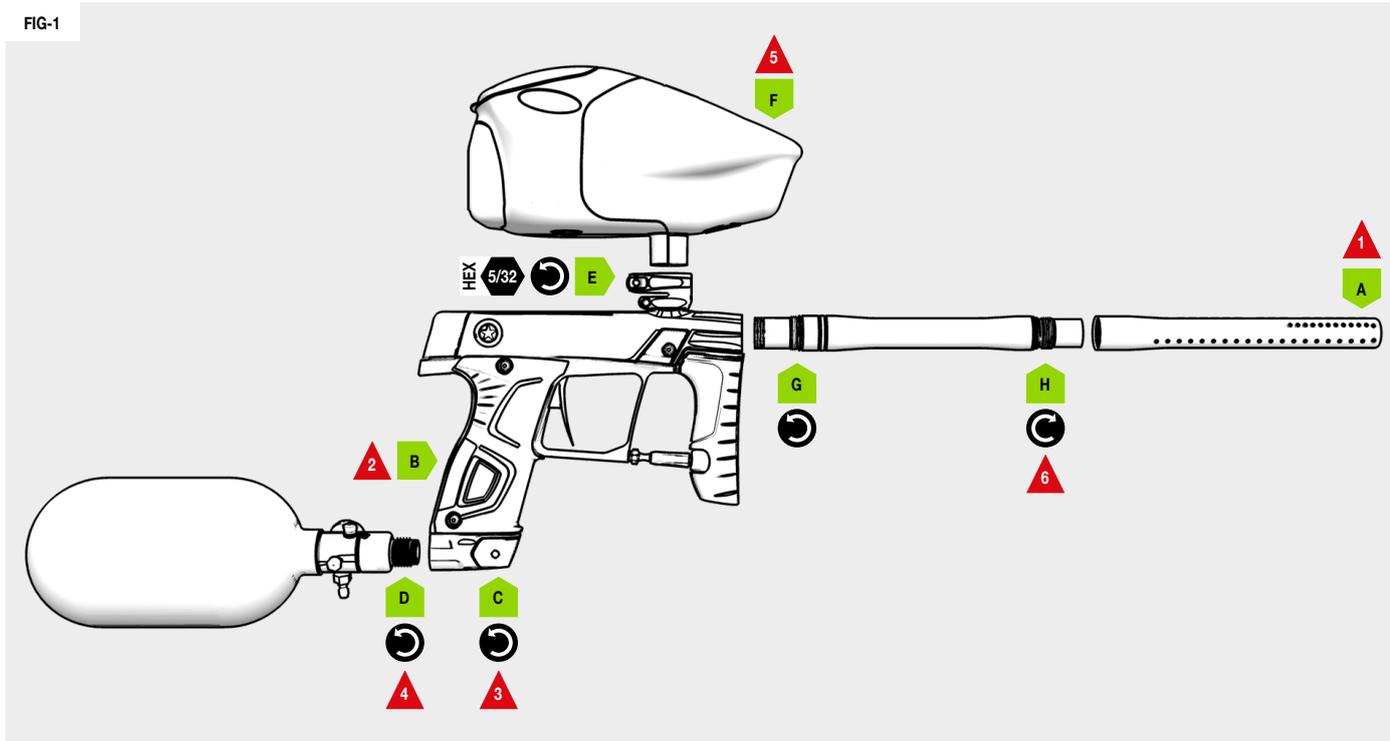


FIG-1

QUICK START

UNLOADING THE STEALTH

FIG-1



QUICK START

UNLOADING THE STEALTH

FIG-1

- A Ensure that a barrel blocking device is fitted for safety.**
- B Switch the marker off.**
- C De-gas the marker.**
Push and hold the POPS button and pull the POPS bonnet away from the POPS body.
- D Remove the pre-set air system.**
Unscrew the air system counter-clockwise from the POPS body.
- E Loosen the clamping feed neck.**
Open the feed neck lever away from the feed neck.
Unscrew the feed neck lever screw counter-clockwise.
- F Remove the loader.**
If the feed neck is too tight, loosen the clamping feed neck more.
- G Remove the barrel from the marker body.**
Unscrew counter-clockwise to remove.
- H Remove the barrel tip from barrel back.**
Unscrew clockwise to remove.

- 1 IMPORTANT!** Extra precaution to avoid injury.
- 2 IMPORTANT!** To switch Off/On, see pages 8-11.
- 3 IMPORTANT!** Always de-gas before unloading.
- 4 IMPORTANT!** Always remove air system before unloading.
- 5 IMPORTANT!** Always remove any paintballs from the breech of the marker once the loader has been removed.
- 6 IMPORTANT!** Unscrew the barrel tip **CLOCKWISE** to remove.

WARNING!



Always make sure the marker is off with a barrel blocking device installed and that no paintballs are in the STEALTH or loader before unloading.

Compressed air and nitrogen systems can be extremely dangerous if handled or used incorrectly.

NEVER leave the STEALTH gassed up when unloading.

NEVER point your marker in the direction of other people when not on the field.

Remove any paintballs from the breech before storing your STEALTH.

QUICK START

STORAGE AND TRANSPORTATION

- 1 Your STEALTH must be clear of all paint and propellant during transportation or storage.
- 2 Make sure the STEALTH marker is switched off.
- 3 Remove the barrel from the marker.
- 4 Make sure the marker is clean of any paint residue, dirt and moisture.
- 5 Store your STEALTH in a clean, cool, dry place.
- 6 Keep your STEALTH away from any unauthorized and unsafe users.
- 7 Remove the battery when storing your STEALTH to prevent unauthorized use.
- 8 Protect your STEALTH from excessive heat during transportation.
- 9 When transporting a paintball marker by air, check with the airline regarding their policies on transporting paintball equipment as hold luggage before arriving at the airport.
- 10 Observe and obey all local and national laws concerning the transportation of paintball markers.
- 11 Use the box in which the marker was originally supplied to protect the marker against rough handling during transport.

WARNING!

Never carry your STEALTH un-cased when not on a playing field. The non-playing public and law enforcement personnel may not be able to distinguish between a paintball marker and a real firearm. For your own safety and to protect the image of paintball, always carry the STEALTH (or any other paintball marker) in a suitable marker case such as the one in which it was supplied.



17

MAINTENANCE ONLINE MAINTENANCE VIDEOS

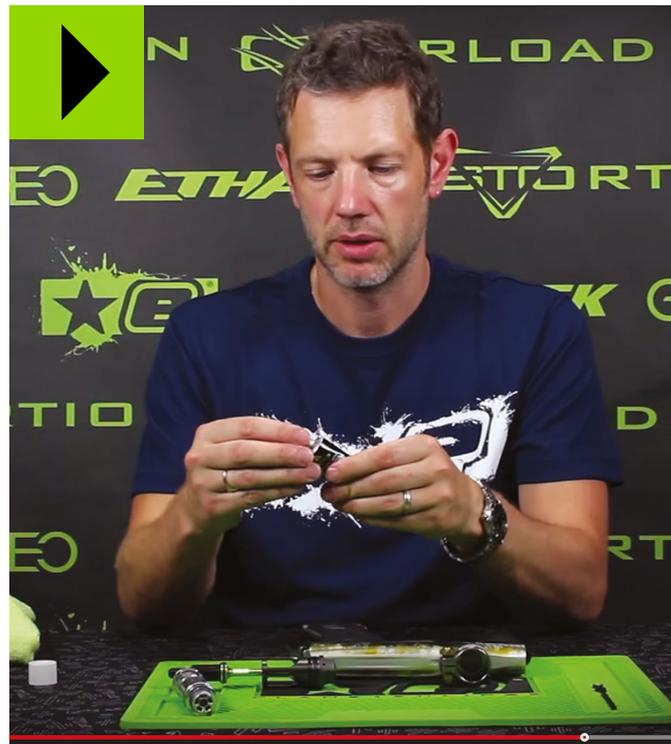
The GI STEALTH is a custom version of the Planet Eclipse GTEK160R that has been designed, manufactured and built by Planet Eclipse for GI Sportz.

To maintain and service essential parts of the STEALTH check out the Eclipse GTEK 160R maintenance videos on the Planet Eclipse **Tech Room** YouTube Channel.

From basic, to more advanced parts, we got your back.

For all of our GTEK160R (and other markers) maintenance videos check out the Planet Eclipse Tech Room YouTube channel:

[YOUTUBE.COM/PLANETECLIPSETV](https://www.youtube.com/planetclipsetv)



ELECTRONICS

THE OLED SET-UP MODE

To modify the parameters you must enter the set-up mode:

- 1 Fully depress and hold the trigger.
- 2 Switch on the STEALTH.
- 3 The OLED should display SETUP. If the OLED displays LOCKED then the tournament lock is on and needs to be switched off (see page 32). Once the tournament lock is off, turn off the STEALTH and start again at 1
- 4 Release the trigger.
- 5 Cycle through each of the parameters by pressing and releasing the trigger.
- 6 To start editing a parameter, press the Select button. The parameter value will flash.
- 7 Press and release the trigger to increment the parameter value. Hold the trigger to increment rapidly.
- 8 Press the Select button to accept the parameter value.
- 9 Press and hold the Select button to exit the set-up mode.



See pages 19-21 for parameter descriptions.

PRESET

Modes may vary depending on global location and STEALTH model.

- 1 **SEMI ∞**
Uncapped Semi-Automatic: one shot per trigger pull (no rate of fire cap).
- 2 **SEMI 15.0**
Capped Semi-Automatic: one shot per trigger pull (15.0bps cap).
- 3 **WPBO 10.2**
Capped Ramping: WPBO compliant* (10.2bps cap).
- 4 **NXL 10.2**
Capped Ramping: NXL compliant* (10.2bps cap).
- 5 **MILL 10.2**
Capped Ramping: Millennium Series compliant* (10.2bps cap).
- 6 **PSP 10.2**
Capped Ramping: PSP compliant (10.2bps cap).



The rate of fire cap is deliberately set lower than the league rules allow in order to compensate for any tolerances in the rate of fire measuring devices.

*At the time of writing, the WPBO, NXL and MILL presets are identical.

BS ON ROF

This controls how fast the STEALTH can fire with the breach sensor on. Capped modes only.

Available range: 4.0 - 15.0 bps

Default setting: 15.0 bps



BS OFF ROF

This controls how fast the STEALTH can fire with the breach sensor off. This should be set to the slowest speed of the loader.

Available range: 4.0 - 15.0 bps

Default setting: 10.0 bps



KICK IN

The trigger pulls per second (pps) before ramping can start.

Available range: 3.3 - 10.0 pps

Default setting: 5.0 pps

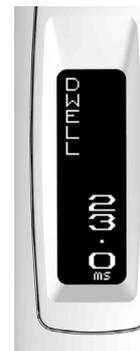


DWELL

Solenoid energise time in milliseconds (ms) for each shot.

Available range: 18.0 - 28.0 ms

Default setting: 23.0 ms



RESTART

The time in seconds (s) after the last trigger pull before ramping can start.

Available range: 0.0 - 1.0 s

Default setting: 0.0 s



DEBOUNCE

Trigger anti-bounce settings.
(1 = lowest level of filtering / 10 = highest level).

Available range: 1 - 10

Default setting: 5



ELECTRONICS

OLED PARAMETERS

SLEEP

Auto power-off time in minutes (min).

Available range: 0 - 60 min

Default setting: 20 min

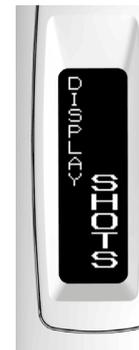


DISPLAY

Sets the display information for the run screen.

SHOTS: Displays the shot counter

ROF: Displays the ROF indicator



ZERO

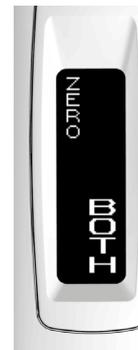
Allows the user to reset the counters and indicators to ZERO.

NONE: Don't zero anything

SHOTS: Zero the shot counter

ROF: Zero the ROF indicator

BOTH: Zero shot counter and the ROF indicator



If the OLED module is unplugged from the main circuit board it is still possible to modify the STEALTH parameters using the LED interface. To enter the set-up mode:

- 1 Switch the tournament lock off (page 32).
- 2 Fully depress the trigger.
- 3 Switch on the STEALTH (with trigger depressed).
- 4 Release the trigger.
- 5 If the LED flashes red, the tournament lock is still on.

Once in the set-up mode, use the trigger to cycle through the parameters, indicated by LED colours (see table below). Quickly press the Select button on any parameter to display the current settings.

LED COLOUR	PARAMETER	RANGE
RED	Pre-set	1 to 6
GREEN	Maximum ROF with BS on (capped modes only)	4.0 to 15.0 bps
BLUE	Maximum ROF with BS off	4.0 to 15.0 bps
PURPLE	Dwell	18.0 ms to 28.0 ms
LIGHT BLUE	Debounce	1 to 10

A long LED flash indicates the unit, whilst a short LED flash indicates the tenth. Eg, 5 long flashes and 3 short flashes would indicate 5.3.

Modifying a parameter:

- 1 Enter the set-up mode.
- 2 Select a parameter.
- 3 Push and hold Select button for 1 second to confirm.
- 4 The LED will go off.
- 5 Increase the unit value using the trigger, one pull per unit. Do not pull the trigger if the value should be 0.¹
- 6 Push the Select button to switch to tenths values.²
- 7 Increase the tenths value using the trigger, one pull per tenth. Do not pull the trigger if the value should be 0.
- 8 Push the Select button to confirm. The LED will flash 3 times. The LED will show green if the changes are confirmed. The LED will show red if the changes are NOT confirmed. If the LED is red repeat **5**.
- 9 Push and hold the Select button until the LED turns blue to exit set-up mode.

1 The settings will return to their previous saved values if you do not pull the trigger for 5 seconds.

2 If a parameter does not support tenths, this will be skipped.

The LED indicator communicates with the user through colour.

This overview page explains each colour and their roles once you enter the set-up mode (see page 22).

LED COLOUR	PARAMETER	DESCRIPTION
RED	SEMI ∞	Uncapped Semi-Automatic: one shot per trigger pull (no rate of fire cap).
	SEMI 15.0	Capped Semi-Automatic: one shot per trigger pull (15.0bps cap).
	WPBO 10.2	Capped Ramping: WPBO compliant (10.2bps cap).
	NXL 10.2	Capped Ramping: NXL compliant (10.2bps cap).
	MILL 10.2	Capped Ramping: Millennium Series compliant (10.2bps cap).
	PSP 10.2	Capped Ramping: PSP compliant (10.2bps cap).
PLEASE NOTE: At the time of writing, the WPBO, NXL and MILL presets are identical.		
GREEN	Maximum ROF (BS ON)	This controls how fast the STEALTH can fire with the breech sensor on. Capped modes only.
BLUE	Maximum ROF (BS OFF)	This controls how fast the STEALTH can fire with the breech sensor off. This should be set to the slowest speed of the loader.
PURPLE	Dwell	This controls the amount of time that the solenoid is energised.
LIGHT BLUE	Debounce	This controls the amount of 'anti-trigger bounce' that is present.
FLASHING BLUE	Factory reset	Press and hold the tournament lock button (page 32) for 2 seconds to restore all settings back to factory standard. The LED will flash blue to confirm this has been successful.

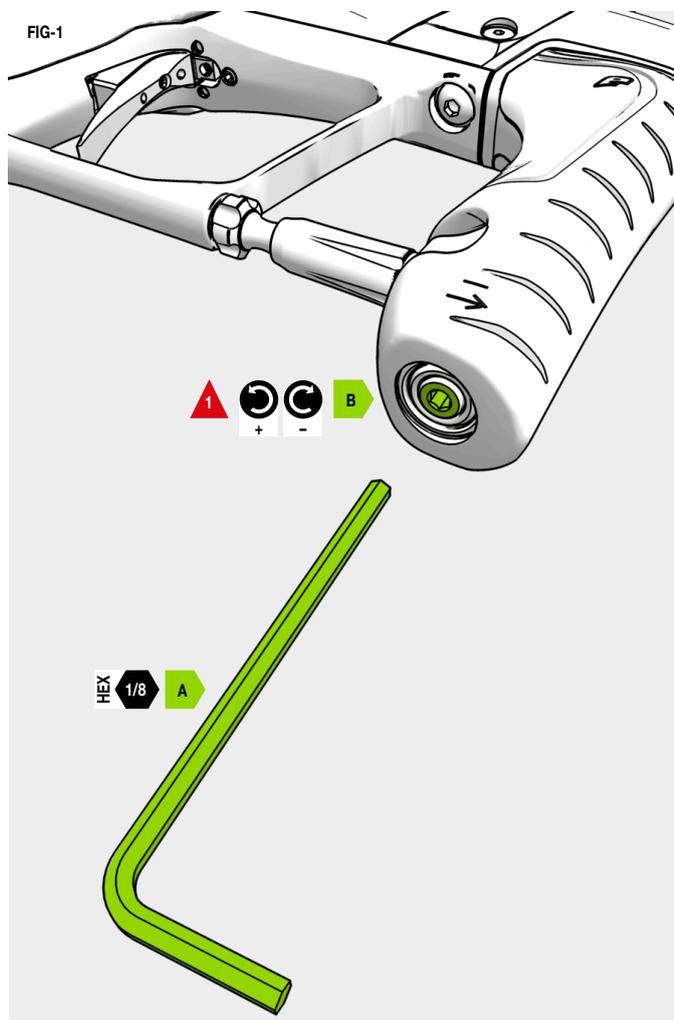
RESET FACTORY RESET

It is important that the STEALTH is set-up as per factory standards before use. To restore to factory settings, follow these steps.

FIG-1

- 1 Press and hold the tournament lock button (see page 32) for 2 seconds to reset all control parameters.
- 2 Using the 1/8 hex key **A** turn the inline regulator **B** screw 4 turns clockwise from it's fully screwed-out position.

1 **DO NOT** turn the adjuster screw in too far. This will prevent the STEALTH from firing.



RESET INSTALLING A 9V BATTERY

Switch off the STEALTH and place on a flat surface - feed neck facing away from you and the barrel pointing to the right.

FIG-1

Using the 5/64" (2mm) hex key **A** remove the grip screws on the right hand side of the grip.

FIG-2

Gently remove the 9V battery using the recessed access point **B**.

Install a new 9V Alkaline battery (type PP3, 6LR61, 1604A) with the battery connectors **C** facing downwards inside the frame.

Replace the rubber grips and tighten the screws as in **FIG-1**.

1 **DO NOT** over-tighten the screws.

2 **DO NOT** use re-chargeable or poor quality batteries.

WARNING!



Do not submerge any of the electronics in water as this may present an electric shock and/or fire hazard.

Check with your local waste disposal authority with regards to the disposal or recycling of your used batteries.

FIG-1

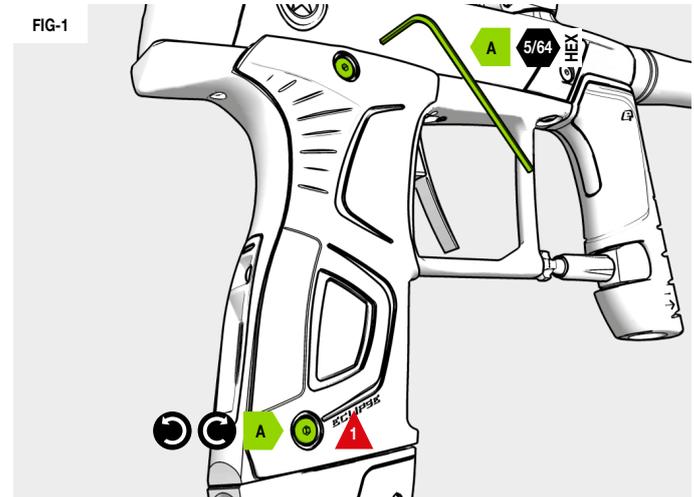
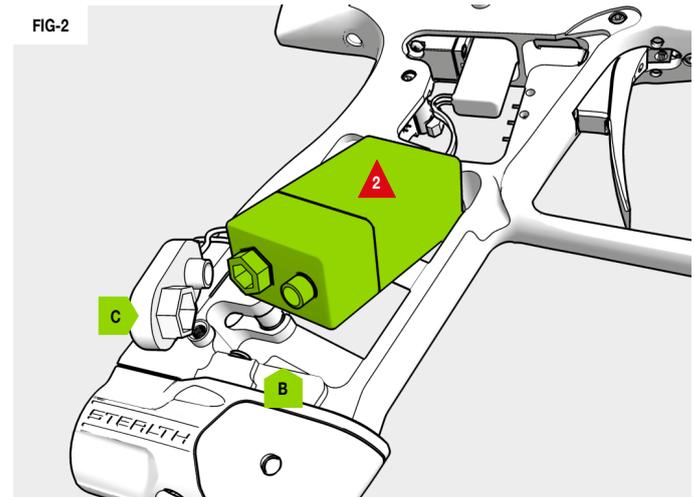


FIG-2



FAULT FINDING

FAULT FINDING TABLES

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Although a fresh battery has been fitted, the STEALTH will not switch on.	The battery has drained on the shelf.	Replace with another battery.
	The battery connector is not making proper contact with the battery.	Disconnect the battery. Gently squeeze the large terminal on the battery connector to reduce its diameter. Reconnect the battery.
The battery does not seem to last very long.	The battery type is of a low quality.	Use an alkaline or lithium battery. Do not use a low quality or rechargeable battery.
When switched on, the STEALTH displays SETUP or LOCKED.	The trigger is depressed.	Release the trigger or unscrew the trigger microswitch screw.
The STEALTH leaks from the solenoid and/or manifold.	The two o-rings under the solenoid body or the gasket under the solenoid plate are damaged or dirty.	Ensure the gasket is seated correctly. Replace the gasket if damaged using STEALTH parts kit. Check condition of the 5x1 NBR70 and 3x1 NBR70 o-rings under the solenoid body.
	Solenoid valve and/or manifold are over-pressurised.	Check the output pressure of the inline regulator, adjust accordingly. Clean and inspect the inline regulator assembly paying particular attention to the piston o-ring, piston tip and regulator seal. Replace damaged components as necessary.
	Damaged or incorrect seals on the solenoid spool.	Replace and/or lubricate solenoid spool seals.
	Damaged STEALTH SMC solenoid pilot valve.	Replace STEALTH SMC pilot solenoid valve.
The STEALTH leaks down the barrel.	Dirty or damaged can o-rings.	Clean and lubricate or replace 020 NBR70 and 017 NBR o-rings on the front of the can.
	Dirty or damaged o-rings on the spool.	Clean and lubricate or replace the 011 NBR70 and 012 NBR70 o-rings on the main spool.
	Dirty or damaged bolt o-rings.	Clean and lubricate or replace 14x2 NBR70 o-ring on the back of the bolt.
	Dirty or damaged rear bolt guide o-ring.	Clean and lubricate or replace 014 NBR70 o-ring on the back of the bolt guide.

FAULT FINDING

FAULT FINDING TABLES

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Low rate of fire / rate of fire not reaching the ROF cap.	The force setting of the loader is too low.	Adjust the loader force feed setting.
	The breech sensor has detected a fault and reduced the ROF.	Check the position and condition of the breech sensors. Clean or replace the breech sensors as required.
The marker is breaking paintballs in the barrel or breech.	The ball detents are damaged or missing.	Replace the ball detents.
	The force setting of the loader is too high.	Reduce the loader force feed setting.
	The paint is poor quality.	Try a higher grade of paint.
	The breech sensor is switched off.	Switch on the breech sensor.
	The bolt and/or breech sensor is dirty	Clean the bolt and breech sensor.
	The velocity is set too high.	Check and adjust the velocity of the STEALTH.
	The paint is too big for the barrel bore size.	Invest in a range of barrels with different bore sizes.
The STEALTH does not fire.	The STEALTH is not powered up.	Power up the STEALTH using the Select button on the back of the STEALTH grip frame.
	The POPS is not fully engaged.	Pull the POPS bonnet into the body until it engages.
	The battery quality or charge level is very low.	Install new high quality alkaline or lithium battery.
	The battery is flat.	Replace the battery.
	The DWELL parameter is set too low.	Increase the DWELL parameter.
	The trigger is set-up incorrectly.	Adjust trigger correctly to fully open and close the microswitch.
	The solenoid is not plugged into the STEALTH PCB.	Plug solenoid wire into its port on the STEALTH PCB.
	The breech sensor is enabled but there is no paint in the breech.	Fill the loader with paint.
The PCB is damaged.	Replace PCB.	
The solenoid valve is damaged.	Replace solenoid valve.	

FAULT FINDING

FAULT FINDING TABLES

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Low constant velocity.	The inline regulator output pressure set too low.	Increase the output pressure of the inline regulator.
High velocity first shot.	The inline regulator pressure is creeping.	Strip and clean the inline regulator replacing the piston seal.
Velocity drop-off during rapid fire.	The battery quality or charge level is low.	Install a new high quality alkaline battery.
	Air system regulator does not have high enough flow.	Try another air system.
	Dirty/partially blocked inline regulator.	Strip, clean, lubricate and rebuild the inline regulator.
The trigger is very "bouncy".	Incorrect filter settings.	Check that your DEBOUNCE settings suit your trigger set-up.
	The trigger pull is too short and the return strength is too low.	See page 13 for trigger adjustment guidelines.
The breech sensor is not reading correctly.	The breech sensor is dirty.	Keep the breech sensor clean to ensure correct readings.
	The breech sensor is fitted incorrectly.	Check that the red receiver is on the right-hand side of the breech and the sensors pointing towards each other through the breech.
	There is a broken wire or contact or a short circuit on either of the breech sensor cables.	Check the plug of the cables. Check for cuts or pinches in the sensor cables.
The breech sensor turns itself off after firing and the display shows that there is a fault with the breech sensor.	The sensor is dirty.	Clean the breech sensor.
	The sensor is faulty.	Replace the breech sensor.
	The sensor is out of place.	Re-install breech sensor. Check alignment.

FAULT FINDING

FAULT FINDING TABLES

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Two or more balls are being fed into the breach.	Worn, damaged or missing ball detents.	Change the rubber ball detent.
	The feed force is too high from loader.	Adjust loader settings/use a lower force loader.
STEALTH is inconsistent.	The inline regulator is supercharging.	Strip and clean inline regulator, replace regulator seal.
	The DWELL is too low.	Increase the DWELL setting.
	Poor quality paintballs.	Use better quality paintballs.
	Poor paintball size to barrel bore match.	Use a closer paintball to barrel bore size.
STEALTH is inefficient.	Inconsistent air supply from air system.	Use a good quality air system.
	Poor paintball size to barrel bore match	Use a closer paintball to barrel bore size.
When the STEALTH powers up the display shows SETUP or LOCKED or the LED flashes white or red.	The trigger is being pulled.	Release the trigger before powering on the STEALTH.
	Microswitch is permanently depressed by an incorrectly set trigger.	Adjust the trigger so that when the trigger is at rest the microswitch is not being activated (see page 13).

If an issue with the STEALTH cannot be solved using the fault finding guide, contact your nearest Eclipse Service Centre for assistance.

TECHNICAL INFORMATION

PARTS LIST

FIG-1

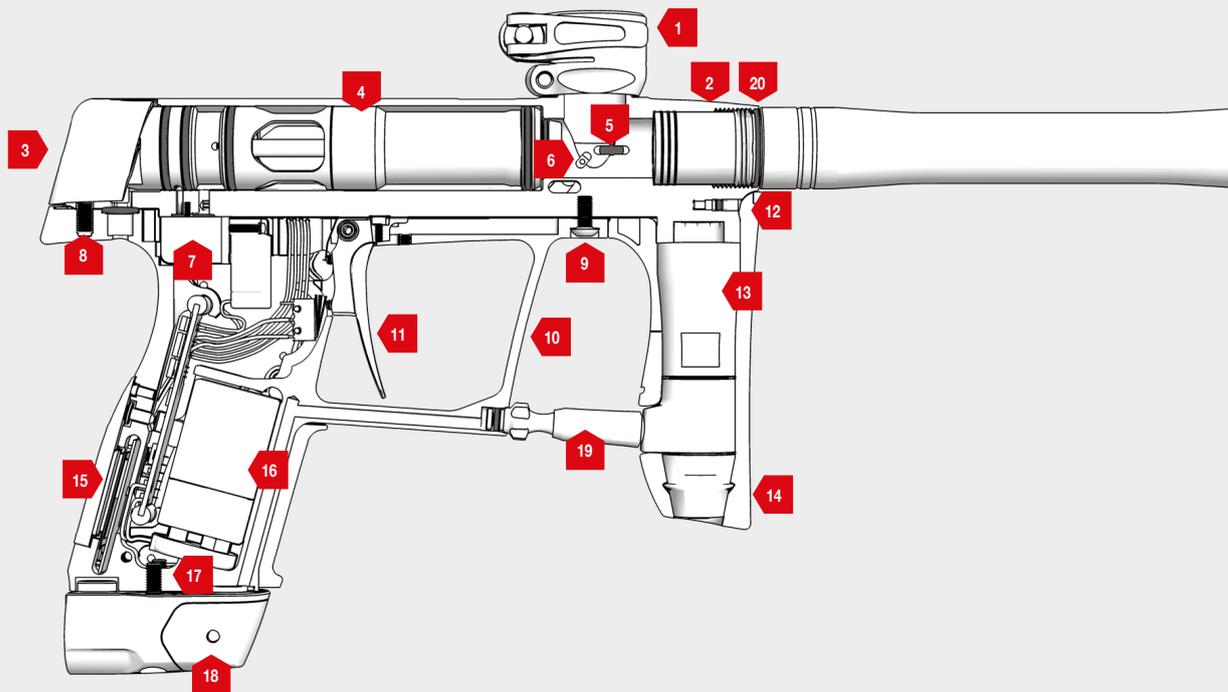


FIG-1

- 1** Low-rise clamping feed tube assembly
- 2** Marker body
- 3** Quick-release bonnet
- 4** Bolt assembly
- 5** Rubber detent
- 6** Breech sensor (BS) unit
- 7** Solenoid assembly
- 8** Rear frame screw
- 9** Front frame screw
- 10** Frame assembly
- 11** Blade trigger assembly
- 12** Body plug
- 13** SL4 inline regulator assembly
- 14** Regulator sleeve
- 15** Navigation console
- 16** 9V battery
- 17** Push On Purge System retaining nut
- 18** POPS assembly
- 19** AT pipe (Air Transfer pipe)
- 20** Barrel o-ring #016 NBR70

TECHNICAL INFORMATION

TOURNAMENT LOCK BUTTON

FIG-1

To access the tournament lock button use the 5/64" (2mm) hex key **A** remove the grip screws on the left hand side of the grip **B**.

FIG-2

The tournament lock button **C** is on the left side of the circuit board (see page 39). To lock / unlock your marker push the button once.

The OLED (or LED) will display the locked / unlocked mode status (see pages 8-11).

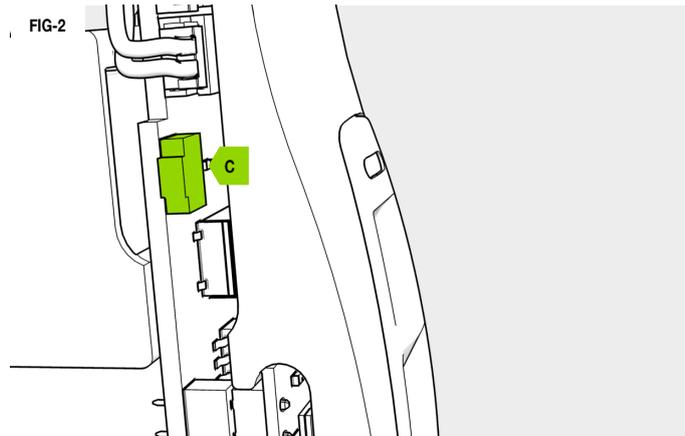
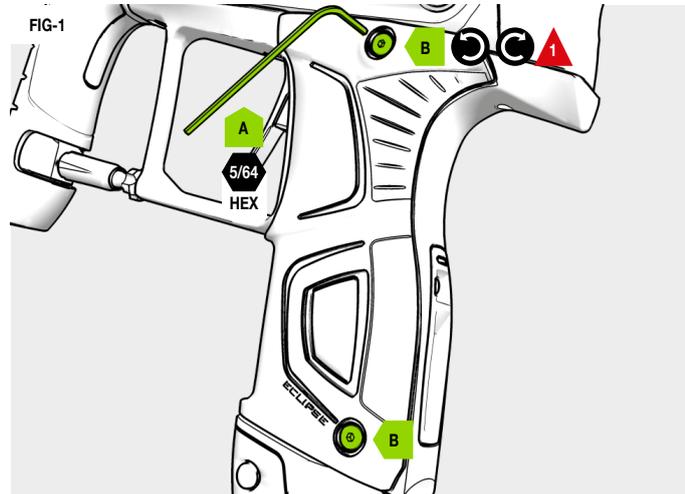
Replace rubber grip and screws as per **Fig-1**.

1 **DO NOT** over-tighten the screws.

WARNING!



Always ensure the marker is made safe before changing the tournament lock state to avoid accidentally firing the marker.



TECHNICAL INFORMATION

AT PIPE (AIR TRANSFER PIPE)

FIG-1

The STEALTH has a metal frame with an AT pipe (Air Transfer pipe) **A** rather than micro line, for a more streamlined and compact system.

FIG-2

The AT pipe comprises of two sections. The pipe section **B** screws clockwise (inwards) and anti-clockwise (outwards) of the pipe nut section **C** to securely transfer air from the tank to the regulator.

FIG-3

The pipe section can screw all the way inwards **D** to make it easy to install and remove the AT pipe. See maintenance videos for more installation/removal information (see page 17).

! **NEVER** leave the marker gassed up when adjusting the AT pipe.

WARNING!



Always make sure the marker is off with a barrel blocking device installed and that no paintballs are in the STEALTH or loader.

Compressed air and nitrogen systems can be extremely dangerous if handled or used incorrectly.

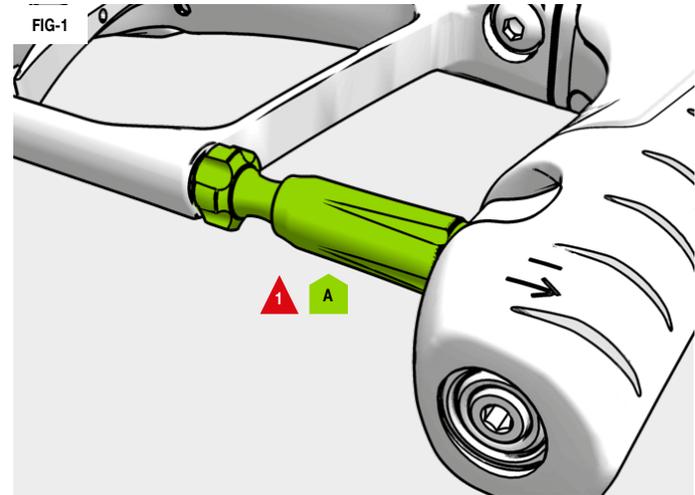


FIG-2

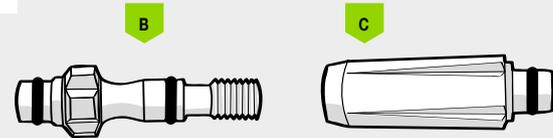
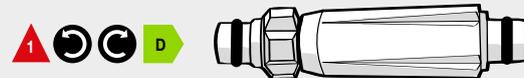


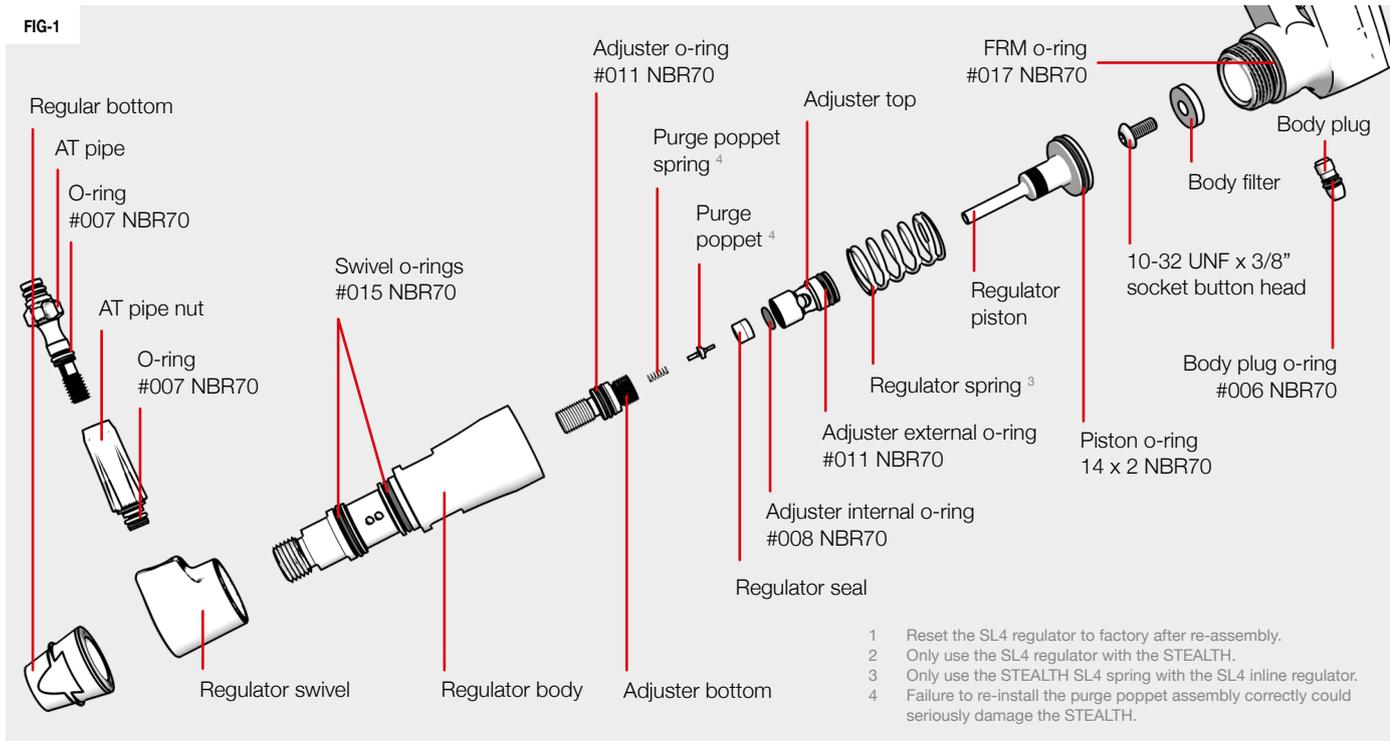
FIG-3



TECHNICAL INFORMATION

SL4 INLINE REGULATOR^{1,2}

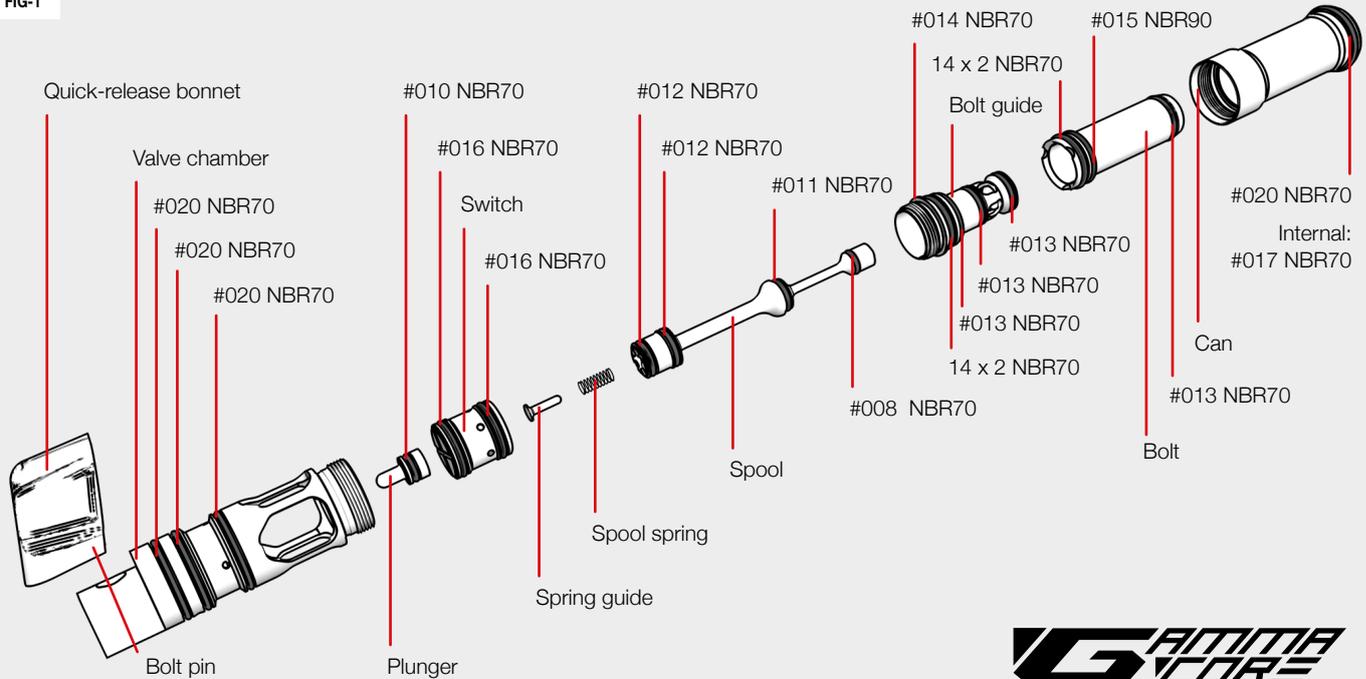
FIG-1



TECHNICAL INFORMATION

GAMMA CORE BOLT ASSEMBLY

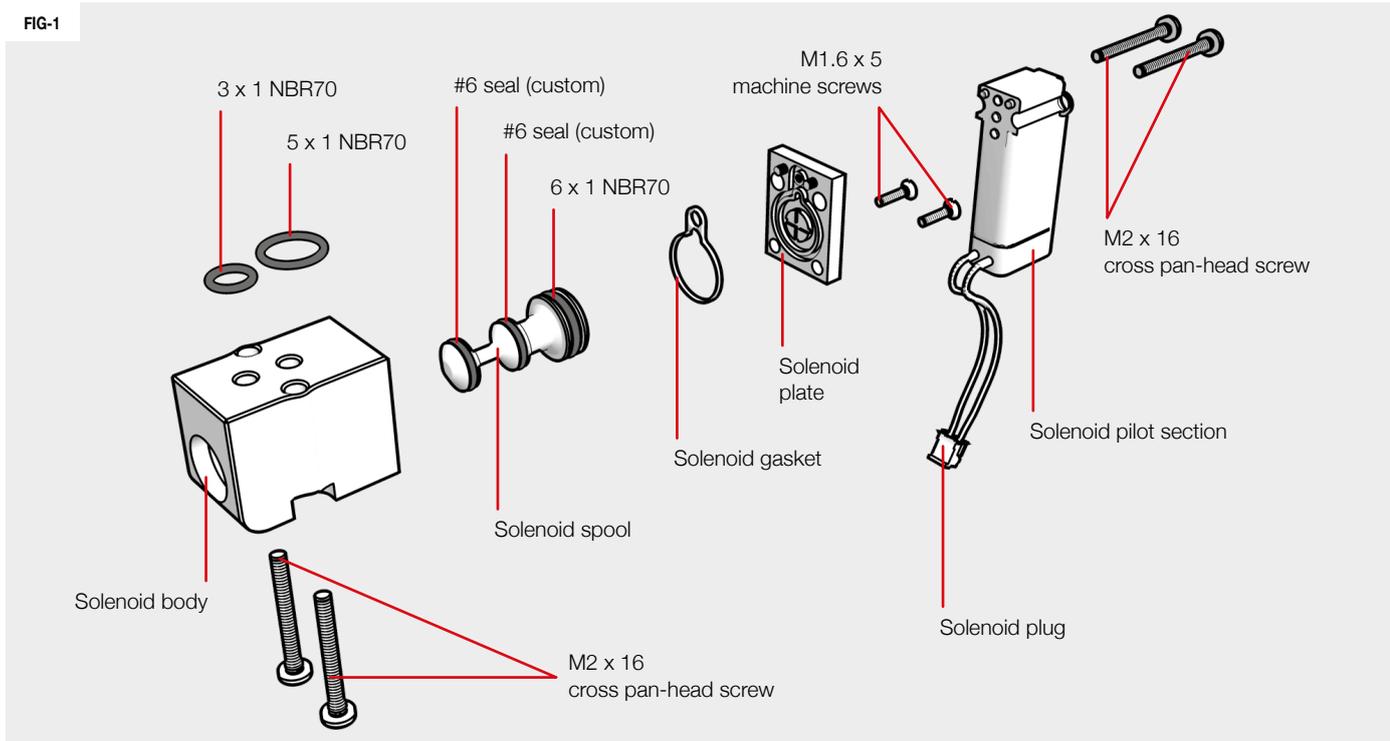
FIG-1



TECHNICAL INFORMATION

SOLENOID ASSEMBLY

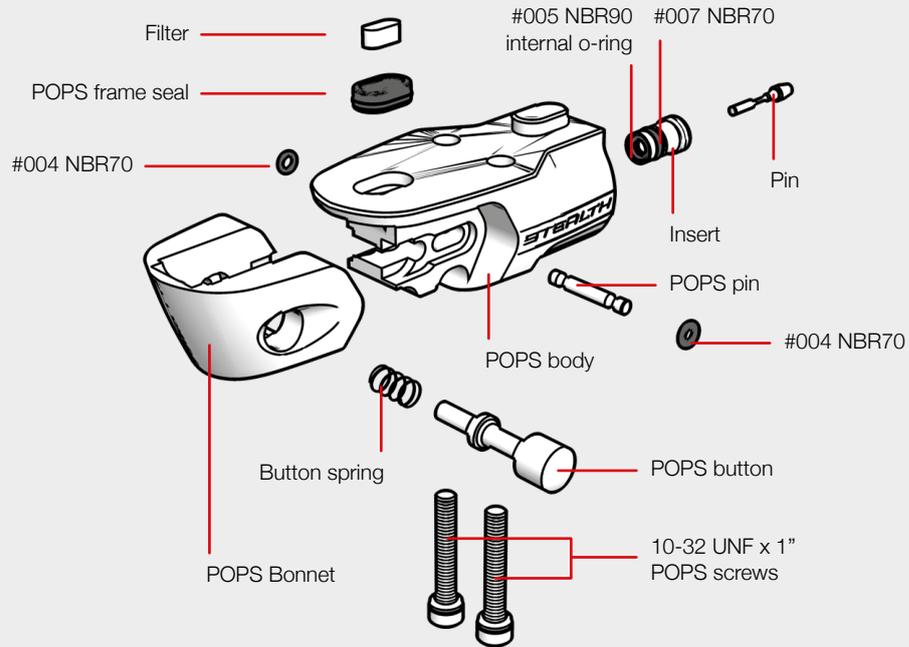
FIG-1



TECHNICAL INFORMATION

PUSH ON PURGE SYSTEM (POPS) ASSEMBLY

FIG-1



TECHNICAL INFORMATION

TRIGGER ASSEMBLY / CLAMPING FEED TUBE ASSEMBLY

FIG-1

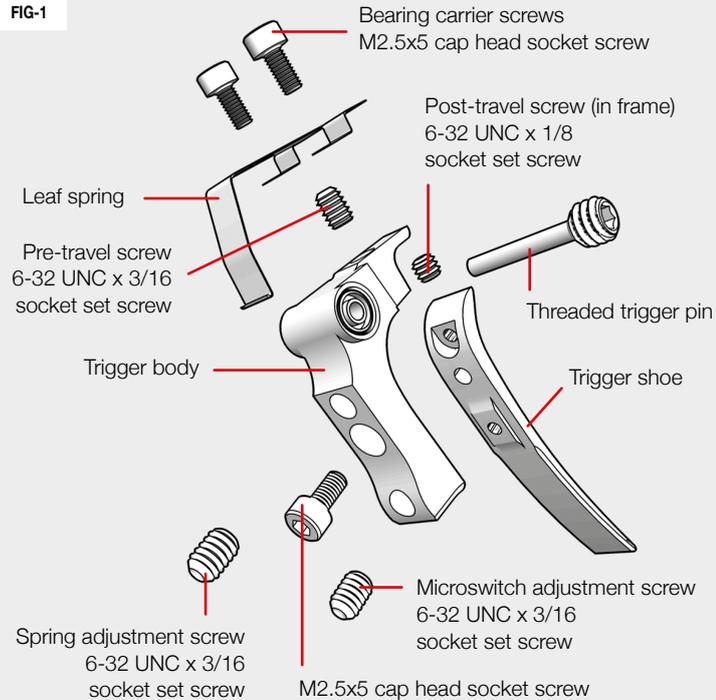
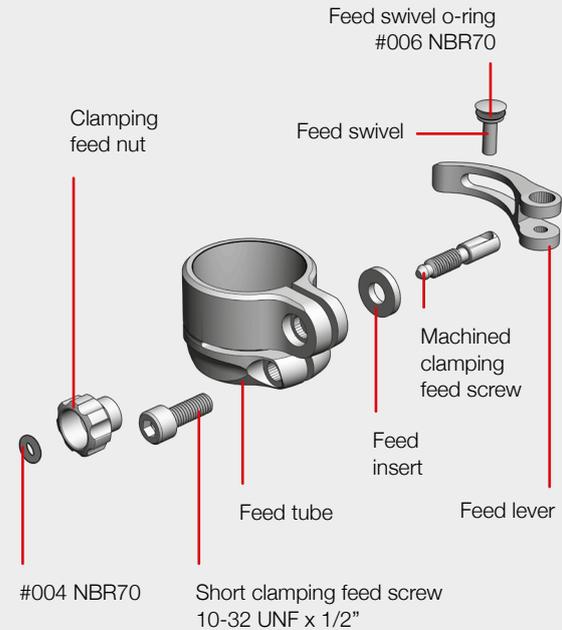


FIG-2



TECHNICAL INFORMATION

CIRCUIT BOARD / OLED BOARD

FIG-1 STEALTH circuit board

- A** Solenoid valve connector.
- B** BS connector.
- C** Microswitch connector.
- D** Tournament lock button.
- E** LED.
- F** Select button.
- G** OLED board connector.
- H** OLED board.

! **IMPORTANT!** If you have removed your OLED board from the main circuit board, be careful when inserting the pins into the connector to avoid damage to the pins and/or the boards.

FIG-1

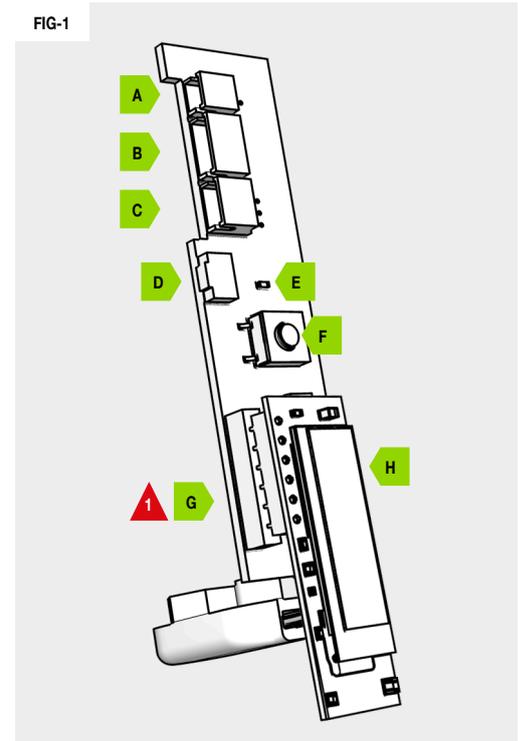
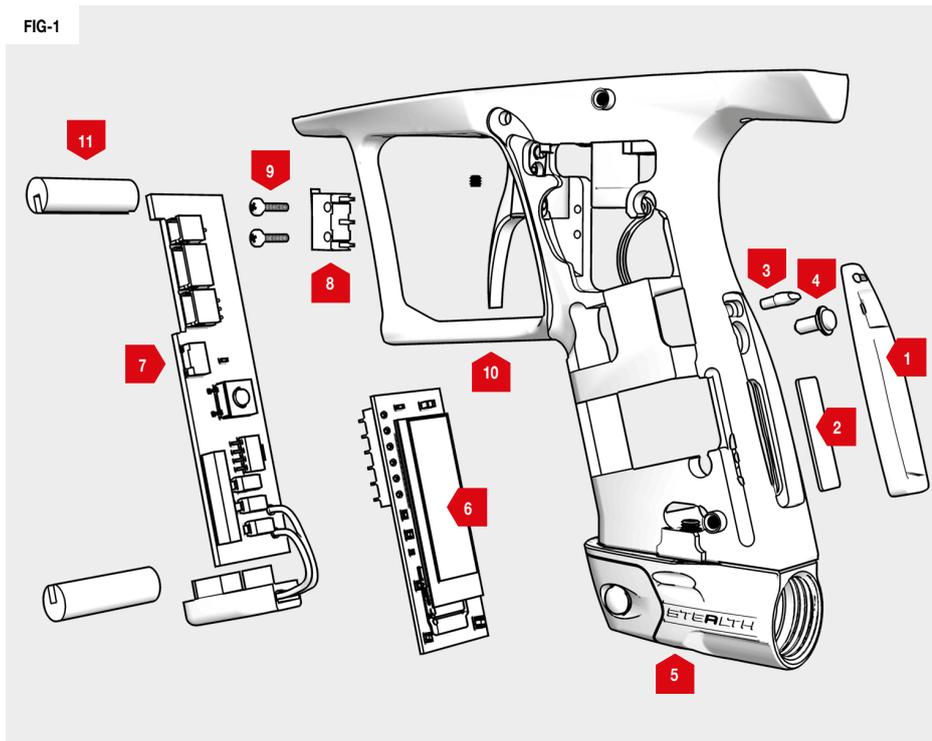


FIG-1

- 1** Navigation console
- 2** Protective lens
- 3** LED lightpipe
- 4** Select push button
- 5** POPS assembly
- 6** OLED board
- 7** Circuit board
- 8** Micro-switch retaining clip
- 9** Micro-switch retaining screws
M2x8 pan cross head
- 10** Frame
- 11** Circuit board retaining clip

FIG-1

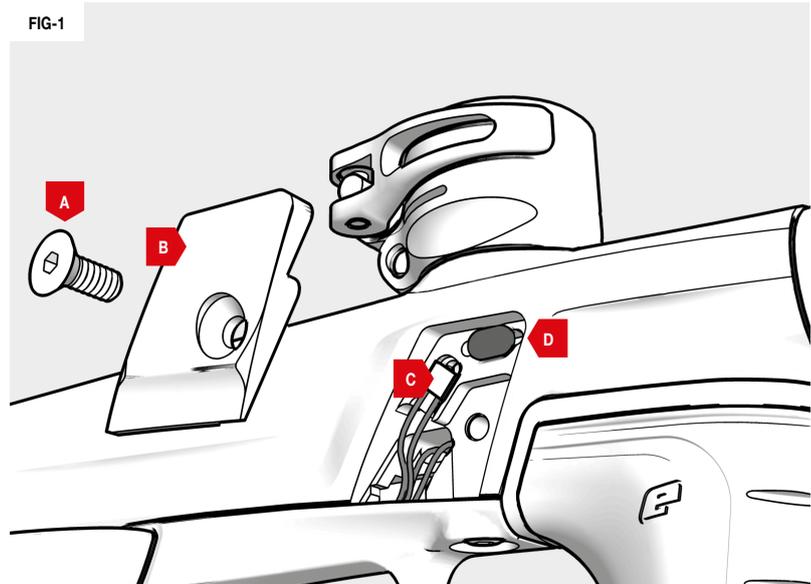
TECHNICAL INFORMATION

BREECH SENSOR (BS) ASSEMBLY

FIG-1

- A** Breech cover screw
6-32UNC x 5/16
countersunk socket screws
- B** Breech sensor cover
- C** Breech sensor
- D** Rubber detent

The elements within this diagram apply to both sides of the marker.



A

Air system: 07,15,28,29
AT pipe: 04,07,31,34

B

Barrel: 07,15,25,33
Barrel blocking device: 07,15,33
Battery: 04,09,11,16,25,26,27,28,31
BLUE: 10,22,23
Bolt: 31,35
Breach sensor: 08,09,10,19,23,27,28,41
BS OFF ROF: 09,19
BS ON ROF: 19

C

Circuit board: 32,39
Clamping feed neck: 07,15

D

DEBOUNCE: 20,28
Detent: 29,31,41
Display: 08,18,21,22,28,32
DISPLAY: 21
DWELL: 20,29

F

Factory settings: 24
Fault: 04,09,26,27,28,29
Feed neck: 07,15,25
Feed neck lever: 07,15
Firing: 08
FLASHING BLUE: 23
Frame: 25,27,31,33,38,40

G

GREEN: 11,22,23

I

Installing: 07,25

K

KICK IN: 20

L

LED: 04,08,10,11,22,23,32,39,40
LIGHT BLUE: 10,22,23
Loader: 07,15,33

M

Marker body: 31
Microswitch: 29

N

Navigation console: 31,40

O

OLED: 04,08,18,39
O-ring: 26,31,34,37,38

P

POPS: 04,07,15,27,31,37,40
Pre-travel screw: 38
PURPLE: 10,22,23
Push On Purge System: 37

Q

Quick-release bonnet: 31,35

R

RED: 11,22,23
Regulator: 02,03,04,07,24,26,28,29,31,34
Reset: 04,21,23,24,25
RESTART: 20

S

Select button: 08,10,11,22,39
Setting up: 06,07
Set-up mode: 04,18,22,23
Shot counter: 09,21
SL4: 04,31,34
SLEEP: 21
Solenoid: 04,20,26,31,36,39
Storage: 02,16
Switching Off: 10
Switching On: 08

T

Tournament lock: 09,22,23,32
Trigger: 08,09,11,13,20,22,23,27,28,29,38

V

Velocity: 03,12,27,28

W

WARNING: 03,07,08,09,11,12,13,15,16,25,32,33
WARRANTY: 43

Y

YELLOW: 10,11

Z

ZERO: 21

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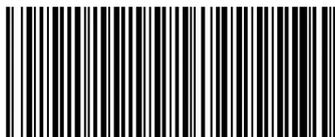
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