

# MANUAL

# WWW.VT







## *Products and Our Company*

The Lightsword - commonly called the saber, known for its glowing blade - is the iconic weapon of great warriors. A wide range of saber toys have been distributed all over the world since the 1970's. We manufacture high quality, combat ready sabers which can be used for display, training, or to play out epic battles from a far away land. Our goal is simple - to make the dreams of fans everywhere a reality. With our determination to innovate our products and features, we endeavor to maintain the highest quality, that which our customers and distributors have come to know and rely on. We are proud to have our hard earned place in the saber market, and we welcome you to share in the happiness only an elegant weapon can bring!







## Warning!

This product is not suitable for children under 13 years. Children under the age of 16 years should always be supervised by an adult to prevent injuries. Always act responsible, safe and respectful.

Fully Charge Saber Before Operating! Use ONLY Included Cable with 5V1A USB OR 5V Wall Charger FAILURE TO COMPLY WITH THESE INSTRUCTIONS WILL RESULT IN A FIRE HAZARD, OR DAMAGED ELECTRONICS!

**THIS WILL VOID YOUR WARRANTY!!!**

The fight for the fate of the galaxy waits for you. Will you fight for freedom or domination? Jedi or Sith, you decide. May the force be with you!!!

## WARRANTY

Our full saber electronic kit and hilt products carry a one (1) year limited warranty from date of receipt. This warranty covers defects found in original workmanship and original materials only, and does not extend to modified products of any kind. The warranty does not apply to software for electronics; modifying software or firmware may alter the operation of your hardware, and issues caused by software changes (such as product becoming unresponsive, lag, sound issues, blown speakers from increases in volume beyond safe levels) are not covered by this warranty, but will not void your warranty against other manufacturing defects. Products where damage and wear are expected, such as blades and batteries, may be exempt from warranty, solely at the discretion of the seller. Software, and exempt parts will only be considered at the discretion of the seller on a case by case basis, taking into account time frames from purchase and scope of use.







# WARRANTY (CONT.)

## Warranty Disclaimer:

Including the previous limitations, please be advised that we do not offer warranty service on products as follows:

- Products that have exceeded the limited one year period
- Products where the customer has failed to comply with requirements of product use. This includes improper storage, neglect to maintenance, improper battery storage or use, any damage caused to the electronics or hilt.

\* Please note, your vendor *might* still provide services for the above situations, if the buyer agrees to cover shipping and part costs. This is not a requirement of our vendors to honour the warranty past the one year from date of receipt; as such, this is entirely at the discretion of the vendor/seller involved.

## Missing Parts:

Rarely, some items might be overlooked in the packing process, or out of stock at the time of packing. These items are part of your saber product, and include the following:

- Screws
- Hex Key
- Charging cable (external charger on select hilts)
- Blade size adapter (only select hilts)
- Crossguard side blades (for select hilts)

If any of these items are missing, please reach out to your vendor to have them provide service for the missing part.



A top-down view of a Star Wars space scene featuring a large Imperial Star Destroyer on the left, a Rebel X-wing on the right, and a red laser beam cutting across the dark space above a planet's horizon.

# WARRANTY (CONT.)

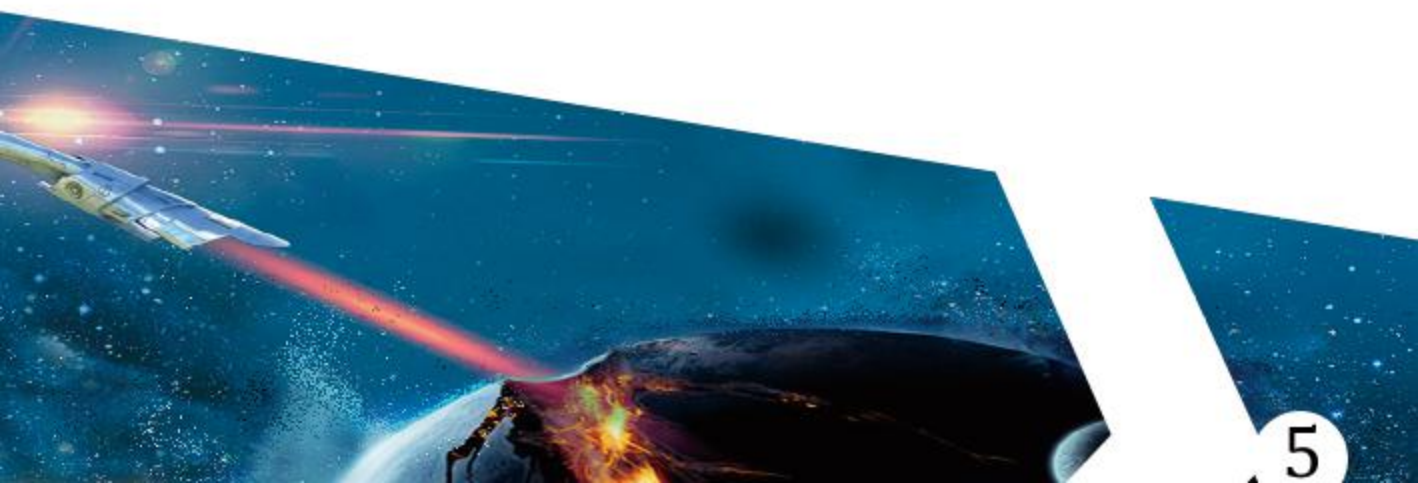
## Extras:

When stock is available, your vendor will, at times, provide extra, or bonus, products. These extras include, but are not limited to, the following:

- Protective (collector) hard cases
- Protective ABS soft cases
- Extra jewels or thumbscrews
- Extra control box PCB plates
- Blade plugs
- Display stands
- Crystals
- Covertec clips or buttons
- O-rings
- Beskar Ingots
- Couplers or connectors
- Grip wraps

These items, unless purchased individually from your vendor, are non-essential, bonus products. The sole purpose of these extras is to provide additional protection in transit (cases) or non essential options for your product. In the case where you've purchased these items separately, you can reach out to your vendor for assistance; otherwise, any extra or bonus product that is broken, missing or defective is not covered under this warranty in any way, and will not be replaced.

Please note that, if your vendor indicates that your product will come with extras above, you will need to reach out to them concerning their company warranty on these products.



Blade(Pixel blade  
saber has pixel blade)

Emitter(Removable on some hilt)

Button

Recharge port

Button Part  
(Removable on  
some hilts)

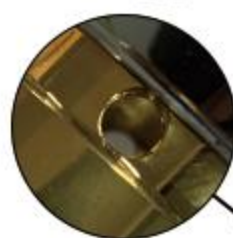
Main body(Removable  
on some hilt)

Covertec Wheel(Removable,on  
some hilt no covertec wheel)

Pommel(On some hilt can  
be removed and connect  
into double blade saber )



Blade retention  
screw holes



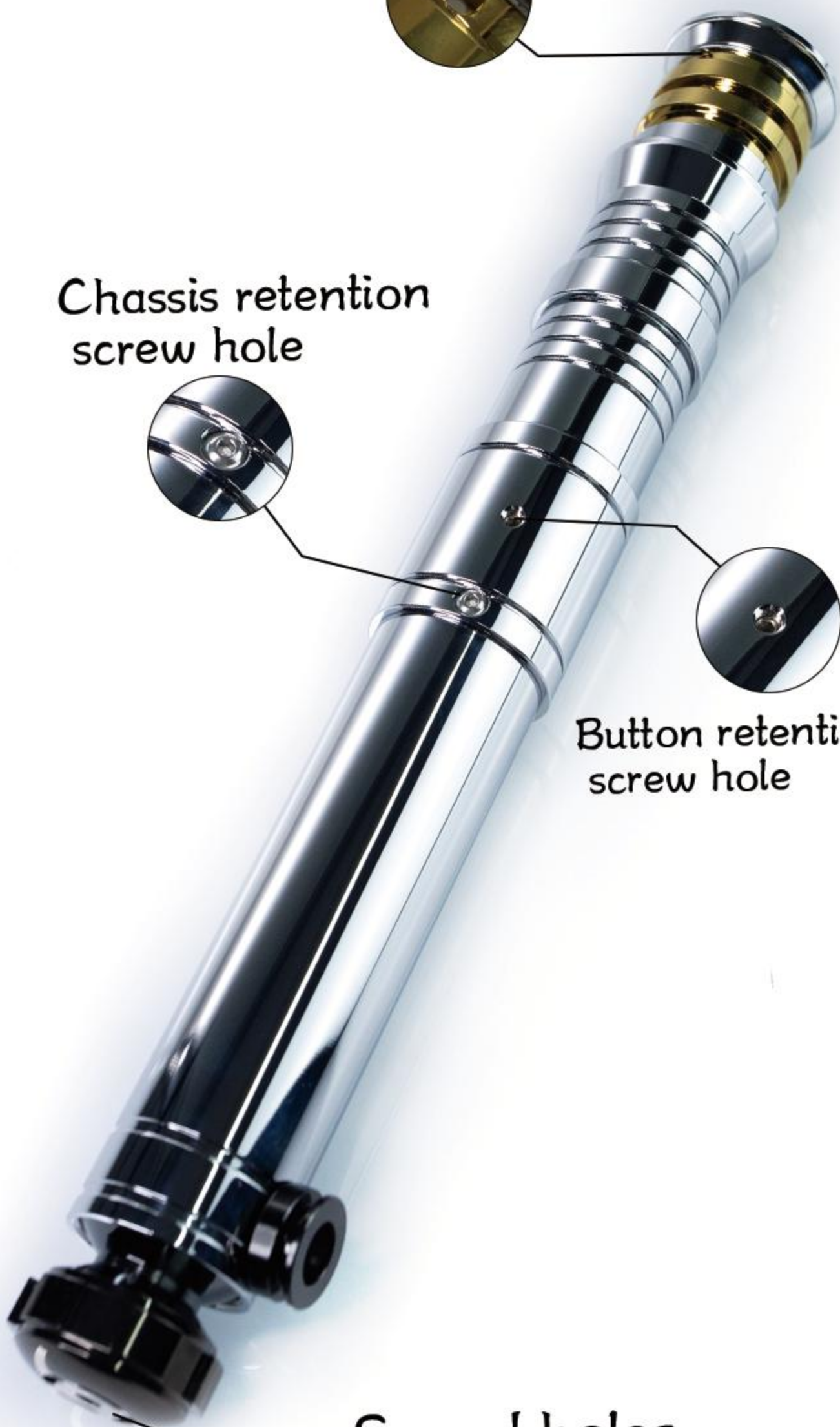
Chassis retention  
screw hole



Button retention  
screw hole



Sound holes





## Basic Accessories For Each Saber



*Tool bag with retention screws and hex key*



*Battery charger OR cable*





# RGB-X

## ECO SMOOTH SWING

### BASIC INSTRUCTIONS:

- Press and hold the LED button to bring out of sleep mode. You will hear a 'Power On' voice, and the LED button will turn on.
- Press the button once, quickly, to turn the blade on.
- The following controls activate when the blade is on, and are based on the flash of the LED button light:
  - 1) A quick press will initiate a single blaster deflect effect.
  - 2) Press and hold the button for ONE flash, then release. This will initiate the lockup effect. A quick press will end the lockup effect.
  - 3) Press and hold the button for TWO flashes, then release. This will initiate the color cycle. When the color you want shows, a quick press will end the color cycle.
  - 4) Press and hold the button for 3 flashes to enter quick color select. When a color you like appears, press the button once to exit.
  - 5) Press and hold past 3 flashes to shut off the blade.

While the blade is off, the following controls are activated based on the flash of the LED button light:

- 1) Press and hold the button for ONE flash, then release. This will change the volume. There are 3 volume settings: Volume High, Volume Low, and Mute.
- 2) Press and hold the button for TWO flashes, then release. This will change the blade effect. There are 3 blade effects: Steady, Pulse, and Unstable.
- 3) Press and hold the button for THREE flashes, then release. This will change the sound font to the next selection.
- 4) Press and continue to hold past the third flash for approximately 10 seconds to put the saber back into sleep mode.





# XENOPIXEL

## BASIC INSTRUCTIONS:

- Press and hold the LED button to bring out of sleep mode. You will hear a 'Power On' voice, and the LED button will turn on.
- Press the button once, quickly, to turn the blade on.
- The following controls activate when the blade is on, and are based on the flash of the LED button light:
  - 1) A quick press will initiate a single blaster deflect effect.
  - 2) Press and hold the button for ONE flash, then release. This will initiate the drag effect. A quick press will end the drag effect.
  - 3) Press and hold the button for TWO flashes, then release. This will initiate the color cycle. When the color you want shows, a quick press will end the color cycle.
  - 4) Continue to hold the button PAST 2 flashes to turn off the blade.
- While the blade is off, the following controls are activated based on the flash of the LED button light:
  - 1) Press and hold the button for ONE flash, then release. This will change the volume. There are 3 volume settings: Volume High, Volume Low, and Mute.
  - 2) Press and hold the button for TWO flashes, then release. This will change the blade effect. There are 5 blade effects: Steady, Pulse, Rainbow Blade, Unstable, and Fire Blade.
  - 3) Press and hold the button for THREE flashes, then release. This will change the blade mode. There are several blade modes, including Some pre-on effects. Blade effects will affect pre-ons, but will not have any effect on Blaster Blade and Ghost Blade modes. Only blade color and font selection impact these modes.
  - 4) Press and hold the button for FOUR flashes, then release. This will change the sound font. The selection of fonts can be customized by the user.







## ADVANCED CONTROLS: MOTION

There are several motion or manual controls available on the XenoPixel V2.

1) A direct and quick stabbing motion with the hilt level will turn the blade on, or off.



2) A quick twist while the hilt is pointed down will change the font to the next on the list. Either direction will prompt the change as long as the hilt is pointed downward.



3) A quick twist while the hilt is pointed up will play a music track, if one or more are available in the selected fonts folder. A quick twist again will stop the music.



4) Hold the button and impact the hilt/blade to activate lockup. Release the button to end lockup.



5) While holding the button, a quick twist while the hilt is pointed down will change the selected blade color. Release the button to select the current color.



6) While holding the button, a quick twist while the hilt is pointed up will play a special effect. This will also play a sound if the correct file is included in the font.







## UPDATING FIRMWARE:

In order to update effects, fix potential issues, and make Improvements, firmware updates may be released as needed. To make this as easy as possible to update, we currently only require one file be added to effect the upgrade. Please follow the steps below to upgrade your XenoPixel V2 board:

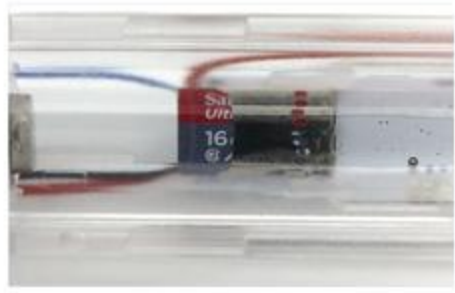
1) Remove the grip and pommel to access your XenoPixel chassis.



2) Carefully remove the battery. This is most easily done by lightly tapping the end of the chassis against your hand. Remember the chassis is marked to ensure, on reinserting the battery, that the positive and negative ends line up correctly.



3) Locate the micro SD card in the chassis. Be sure to note the orientation to make re-installation easier.



4) Carefully remove the micro SD card. Use your fingers or tweezers. Do not force the card upward or downward, as this could damage the connector.







## UPDATING FIRMWARE (CONTINUED):

The next set of steps are for the installation of the firmware:

1) Download the 'update.bin' file from your vendor/source. Open the file's location on your PC or Mac.



2) Open the micro SD card, and open the 'set' folder shown below:

16	7/13/2021 1:53 PM	File folder
17	7/13/2021 1:53 PM	File folder
18	7/13/2021 1:53 PM	File folder
set	7/13/2021 1:50 PM	File folder

3) Drop the 'update.bin' in the 'set' folder, as shown:

steady.wav	12/21/2020 8:45 AM	Microsoft Wave S...	75 KB
unstable.wav	12/21/2020 8:47 AM	Microsoft Wave S...	108 KB
update.bin	8/2/2021 11:54 AM	BIN File	323 KB

4) Once the .bin file is in the 'set' folder, safely eject your micro SD card, and install it back into your chassis.

5) Install the battery, but do not turn the hilt on; wait for sound confirmations, once the battery is installed, indicating that the update has begun, followed by one that indicates it has been completed. Please listen carefully as the sound may be difficult to make out. Normal updates should take only a few seconds – vendors will be made aware of larger updates as they become available.







## CONVERTING SOUNDFONTS:

Converting sounds over to work with XenoPixel can take some patience, but is not a difficult process. At this time, conversion must be done manually.

The font folder must be numbered sequentially; XenoPixel will not read folders with names. You won't likely have to edit any sound files from existing popular soundfont formats, such as Proffie or CFX, but you will have to remove some files, and rename others.

blaster (1).wav	2020-03-25 11:59 AM	Microsoft Wave S...	127 KB
blaster (2).wav	2020-03-25 11:59 AM	Microsoft Wave S...	127 KB
clash (1).wav	2020-03-25 11:59 AM	Microsoft Wave S...	59 KB
clash (2).wav	2020-03-25 11:59 AM	Microsoft Wave S...	51 KB
drag (1).wav	2020-03-25 11:59 AM	Microsoft Wave S...	680 KB
font (1).wav	2020-03-25 11:59 AM	Microsoft Wave S...	202 KB
font (2).wav	2020-03-25 11:59 AM	Microsoft Wave S...	414 KB
hum (1).wav	2020-03-25 11:59 AM	Microsoft Wave S...	1,379 KB
in (1).wav	2020-03-25 11:59 AM	Microsoft Wave S...	59 KB
in (2).wav	2020-03-25 11:59 AM	Microsoft Wave S...	59 KB
lock (1).wav	2020-03-25 11:59 AM	Microsoft Wave S...	1,536 KB
out (1).wav	2020-03-25 11:59 AM	Microsoft Wave S...	101 KB
out (2).wav	2020-03-25 11:59 AM	Microsoft Wave S...	114 KB
swingh (1).wav	2020-03-25 11:59 AM	Microsoft Wave S...	1,322 KB
swingh (2).wav	2020-03-25 11:59 AM	Microsoft Wave S...	1,322 KB
swingl (1).wav	2020-03-25 11:59 AM	Microsoft Wave S...	1,322 KB
swingl (2).wav	2020-03-25 11:59 AM	Microsoft Wave S...	1,322 KB
track (1).wav	2020-03-25 11:59 AM	Microsoft Wave S...	5,273 KB
track (2).wav	2020-03-25 11:59 AM	Microsoft Wave S...	8,310 KB

The above example shows XenoPixel accepted sound file types. Although the example only shows a maximum of 2 for each sound, you can add many more (tested up to 16). Windows 10 will automatically number renamed files of the same name, making converting multiple files of the same sound type much easier.







*Unscrew body to remove the battery*

*Basic disassembly instructions*



*Remove all screws*





*Push button down into chassis*

*Basic disassembly instructions*



*Pull out the chassis*





# TROUBLESHOOTING

1. Saber does not turn on.

A. Please charge for 4-8 hours.

2. Saber still doesn't start after charging.

A. Remove the battery and check the battery contact plates, to ensure they are making contact. Gently bend them out if they are not making contact, reinsert battery, and turn on the saber. If no response, charge again. (if possible use an external charger).

If still not responding, please reach out to your seller.

3. Saber has no sound.

A. Saber might be set to Mute mode. Please check instructions ensure volume is set properly. With the blade off, press and hold button

for 1 flash to change basic volume setting. Alternatively, remove and reinsert the battery to reset the board.

4. Saber has no swing, hum, or clash sounds.

A. Usually this is from low battery power. Charge the saber for 4-8 hours. In Xeno, ensure files are setup on the micro SD card, and ensure the micro SD card is seated properly.

5. When charging, saber cues 'Charging' then immediately indicates 'Ready'.

A. The battery is not making contact properly with the contact plates inside. Open the saber, remove the battery and adjust contact

plates so that both touch easily.

6. Blade or retention screws are loose on the saber.

A. Use the included hex key to tighten retention screws on the saber.





# TROUBLESHOOTING (CONT.)

7. Saber stops working suddenly.

A. Remove the battery and check contact plates. Reinsert the battery, charge the saber and try again. If no response, contact your seller.

8. Are there any Known Issues?

A. Yes. At times, a random swing sound may play when held at a particular angle. You may experience certain fonts sounds not being as

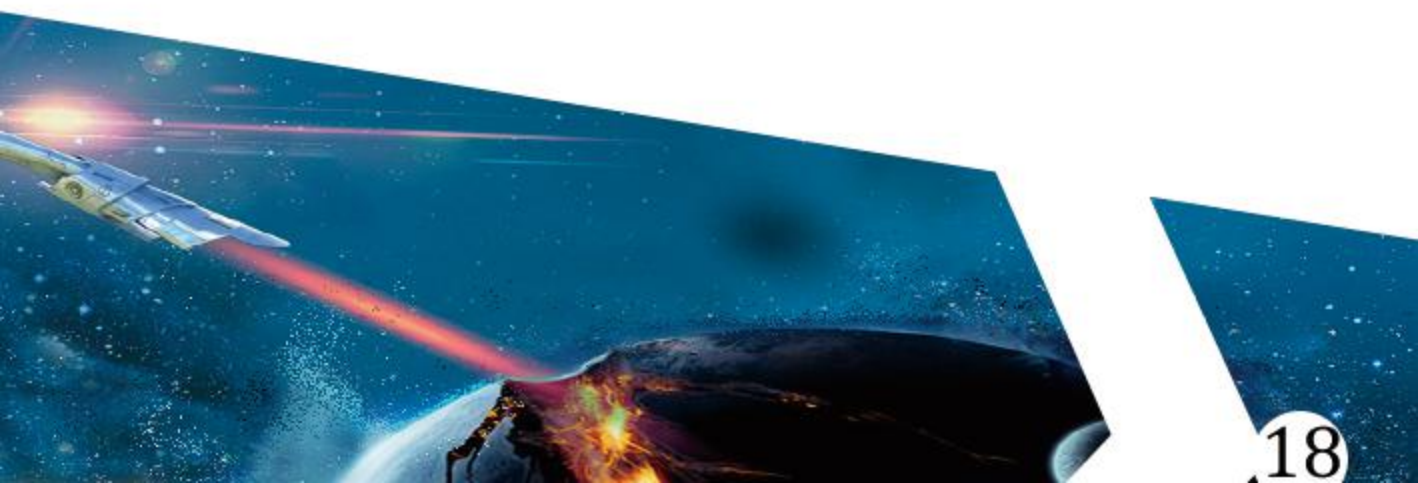
smooth as others. Additionally, the saber will activate flash on impact, when doing a fast spin. These are known issues all being tested for a fix. They should not affect the usage off the saber.

9. Saber is hot near the emitter.

A. It is normal for the LED in the emitter to generate heat, but the emitter should diffuse most of the heat. As such, please do not turn on the electronics outside of a hilt, as the heat may damage the chassis without the aluminum emitter to diffuse the heat.

10. Proffieboard issues: Although we currently do not manufacture Proffieboards, questions can arise with existing products on the market.

Please check the Proffieboard Support groups on Facebook and The Rebel Armory (TRA). If you have questions that haven't been answered there, please reach out to your seller.





# Charging Methods

Disassemble body to remove battery for charging



Remove pommel to charge



Plug charging cable







**Saber Studio Variable Hilt Component system:  
create your own hilt from dozens of terrific po  
mmels, emitters, grips, button sections, sleev  
es and more!**