



Galactic Props

E-11 Stormtrooper Blaster

Build Instructions

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1. *About the E-11 Blaster*

Introduced in “A New Hope” in 1977, the iconic E-11 Stormtrooper Blaster Rifle was manufactured by BlasTech Corporation.

A powerful, light and compact weapon, the E-11 Blaster was used widely throughout the Galaxy for nearly a century and a half.

It was the standard-issue Blaster Rifle of the Imperial Stormtroopers.

My version of the E-11 Blaster has been designed so that you can add Electronics for Light and Sound.

It has also been designed for ease of printing and also painting the individual parts to get the best possible finish.

All the images used in these Build Instructions are images from my design done in Fusion360. I do not consider it to be 100% screen accurate but it's pretty close.

You can use these files to print yourself the iconic E-11 Blaster.



2. Tools List

The following tools are what I recommended to use to build your E-11 Stormtrooper Blaster.

2.1. 3D Model

- Eye Protection - Goggles to protect your eye's from the dust particles
- Dust Mask - For protection from breathing in the dust particles
- Sandpaper - Various grades 80 Grit, 180 Grit and Wet & Dry 600 Grit (A few sheets of each)
- Small Metal Files - Various widths and shapes
- Super Glue
- 2 Part Epoxy Glue
- Small Pair of Side Cutters
- Needle Nose Pliers
- Exacto Knife
- Filler - Bondo, wood filler, fine car filler or any other type of filler that is easy to sand can be used.
- Paint - Filler Primer, Colours of your choice

2.2. Electronics

- Multi-Meter - For testing circuits and connections (**VERY IMPORTANT**)
- Soldering Iron or Soldering Station
- Solder
- Solder Wick
- Wire - 28AWG or 30AWG Silicon wire recommended
- Wire Stripper
- Heat Shrink Tubing - Various Sizes
- Hot Air Gun, Lighter or Solder Station - For shrinking heat shrink tubing
- Small Pair of Side Cutters
- Needle Nose Pliers
- Solder Helper - Optional

3. Sanding and Filling

Sanding all the parts is a necessary process and the more time you take on this process the better the finish of your E-11 Blaster will be. Start with the 80 grit sandpaper and reduce the grit until a nice smooth finish is achieved.

PLEASE WEAR A DUST MASK & GOGGLES WHEN SANDING

DO NOT USE POWER TOOLS for sanding, these create heat very quickly and will soften the plastic and potentially ruin the part. Hand sanding is a much slower process but with patience and time you will achieve a really good finish ready for assembling and painting.

- Rounded Parts - Roll sandpaper around the part to sand, both inside and outside of barrels can be sanded this way.
- Flat Surfaces - Use a sheet of sandpaper on a flat surface to sand these parts.
- Awkward Shapes and Small Details - Use small metal files with shaped sides and sanding sticks to sand these parts, being careful not to sand away the details too much.

Check all parts for voids and gaps and fill with filler, once dry and hardened sand these parts again. Only move on to assembling the E-11 Blaster once you are really happy with the sanded finish of all the parts.

4. Priming and Painting

The main colours used for painting the E-11 Blaster are Black, and a bit of Silver, but you can paint it in whatever colours you choose. I recommend using cans of acrylic spray paints, but you can also use an airbrush.

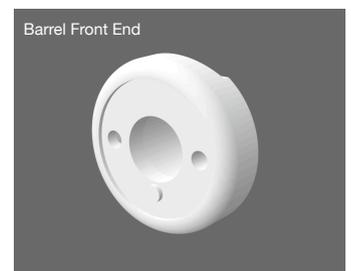
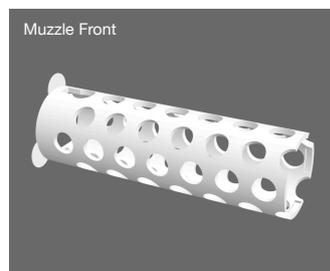
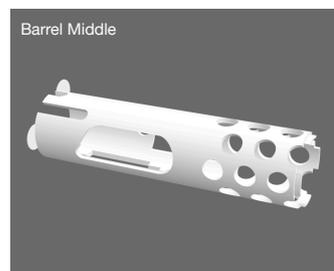
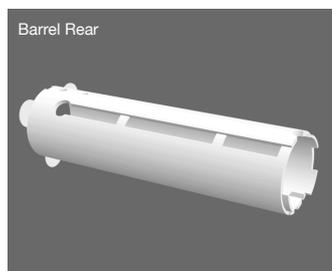
PLEASE WEAR A MASK WHEN PAINTING

- Always paint in a well ventilated area, preferably outside.
 - Wear PPE (Personal Protective Equipment) when painting.
 - Hang parts for printing where possible - This gives a better angle for painting and also for drying the parts.
 - Apply several light coats of paint rather than one which coat and try to avoid drips and runs.
1. Filler Primer - Spray Paint all parts with Filler Primer - This will fill any very small voids or gaps. If there are still some voids and gaps fill these with filler and sand all the parts with very fine grit wet and dry sandpaper to achieve a real good smooth finish ready for the final colour.
 2. Main Colour - Use several light coats of paint allowing each to dry for the recommended time before applying the next coat. Don't rush and try to paint thick coats of paint, you will possibly lose some of the finer details on the parts, and possibly have to start the sanding process again.
 3. Allow the paint to fully dry before attempting to assemble the E-11 Blaster. I recommend at least 24 hours.
 4. Remember any parts that are required to be glued together will need to have the paint sanded first. Gluing Painted parts together is NOT recommended.
 5. Weathering - This is a personal choice. If you want to give your E-11 Blaster the weathered look check out the many video's on YouTube showing how to achieve that weather look.

5. List of Parts

5.1. Barrel

Name	Paint Colour	Supports Yes/No
Barrel Rear	Black	YES
Barrel Middle	Black	YES
Barrel Front	Black	YES
Barrel Front End	Black	YES
Barrel Muzzle	Black	YES
Barrel End Cap Retainer	Black	NO
Barrel End Cap Spring	Black	YES
Barrel End Cap	Black	YES
D-Ring Mount	Black	YES
D-Ring	Black	NO
Barrel LED Holder Part 1	Black	YES
Barrel LED Holder Part 2	Black	YES
Folding Stock Barrel Mount	Black	YES
Bayonet Lug	Black	YES
End Cap Lock Part 1	Black	YES
End Cap Lock Part 2	Black	YES
Front Sight	Black	NO
Front Sight Guard	Black	YES
Rear Sight	Black	YES
T-Tracks	Black	NO
Front Flashguard	Black	NO
Middle Flashguard	Black	NO



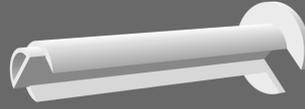
D-Ring Mount



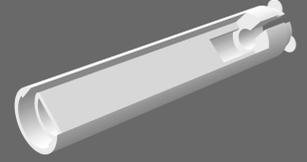
D-Ring



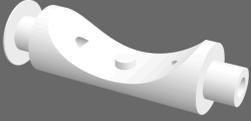
Barrel LED Holder Part 1



Barrel LED Holder Part 2



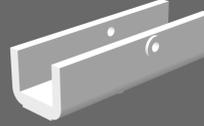
Folding Stock Barrel Mount



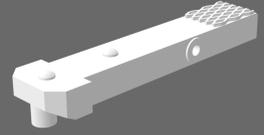
Bayonet Lug



End Cap Lock Part 1



End Cap Lock Part 2



Front Sight



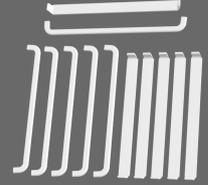
Front Sight Guard



Rear Sight



T-Tracks



Front Flashguard



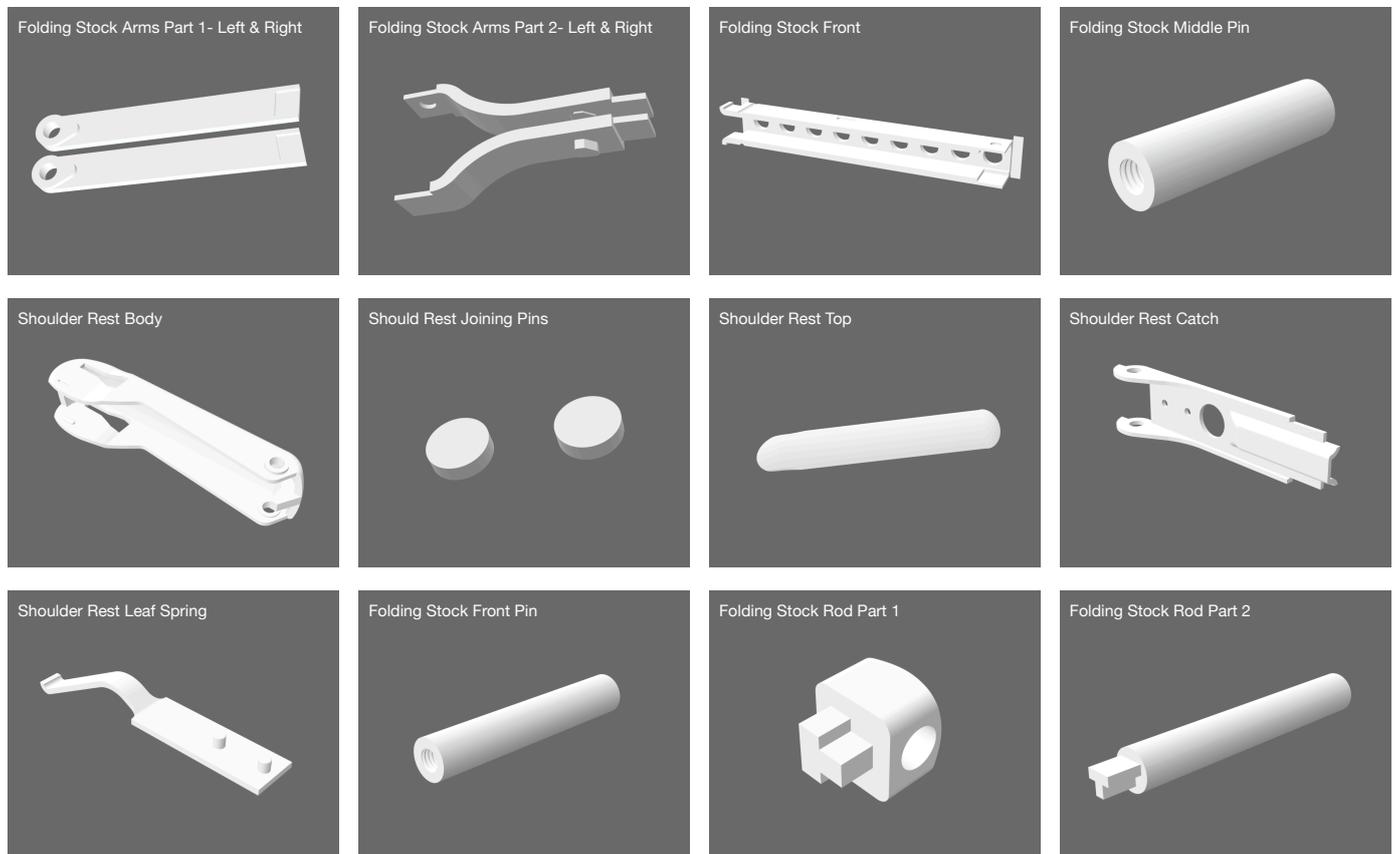
Middle Flashguard



Notes

5.2. Folding Stock

Name	Paint Colour	Supports Yes/No
Folding Stock Arms Part 1	Black	NO
Folding Stock Arms Part 2	Black	YES
Folding Stock Front	Black	YES
Folding Stock Middle Pin	Black	NO
Shoulder Rest Body	Black	YES
Shoulder Rest Joining Pins	Black	NO
Shoulder Rest Top	Black	YES
Shoulder Rest Catch	Black	YES
Shoulder Rest Leaf Spring	Black	YES
Folding Stock Front Pin	Black	NO
Folding Stock Rod Part 1	Black	YES
Folding Stock Rod Part 2	Black	YES
Folding Stock Rod Part 3	Black	YES
Folding Stock Rod Part 4	Black	YES
Folding Stock Rod Plunger	Black	NO
Folding Stock Retainer	Black	NO



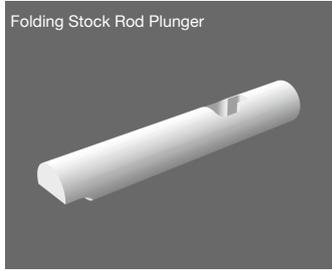
Folding Stock Rod Part 3



Folding Stock Rod Part 4



Folding Stock Rod Plunger



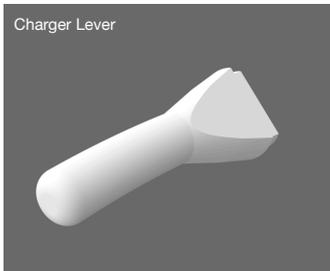
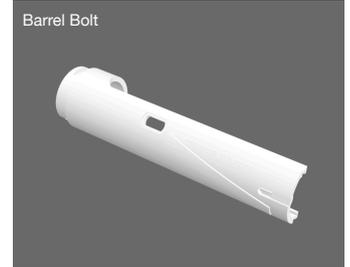
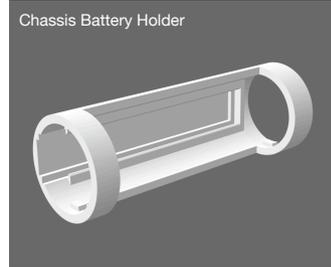
Folding Stock Retainer



Notes

5.3. Chassis

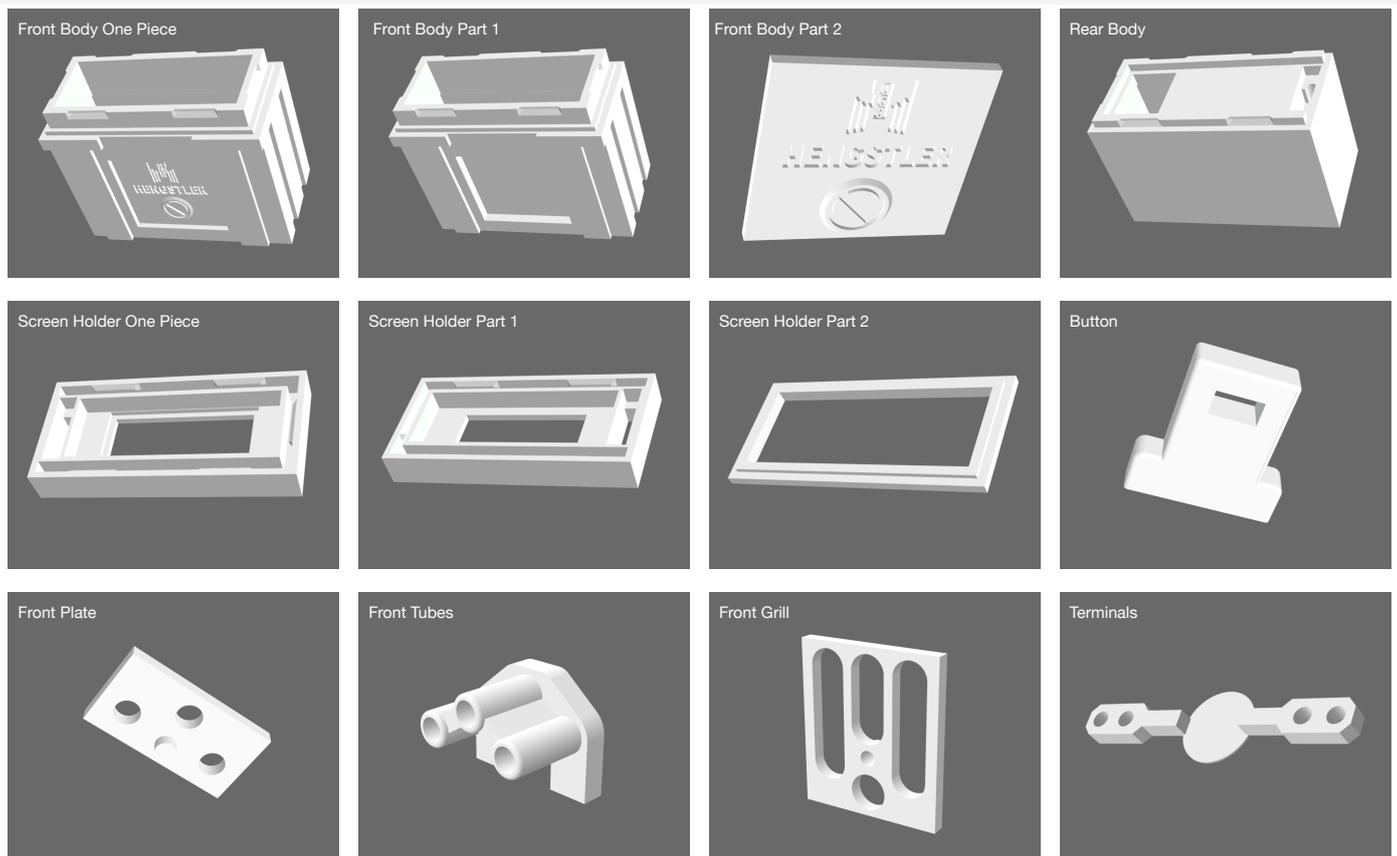
Name	Paint Colour	Supports Yes/No
Charger Port	Black	NO
Charger Port PCB Stopper	Black	NO
Chassis Battery Holder	Black	NO
Barrel Bolt	Black/Silver	YES
Charger Lever	Black	YES



Notes

5.4. Hengstler

Name	Paint Colour	Supports Yes/No
Front Body One Piece	Black	YES
Front Body Part 1	Black	YES
Front Body Part 2	Black	NO
Rear Body	Black	YES
Screen Holder One Piece	Black	NO
Screen Holder Part 1	Black	YES
Screen Holder Part 2	Black	NO
Button	Black	NO
Front Plate	Black	YES
Front Tubes	Black	NO
Front Grill	Black	NO
Terminals	Silver	NO



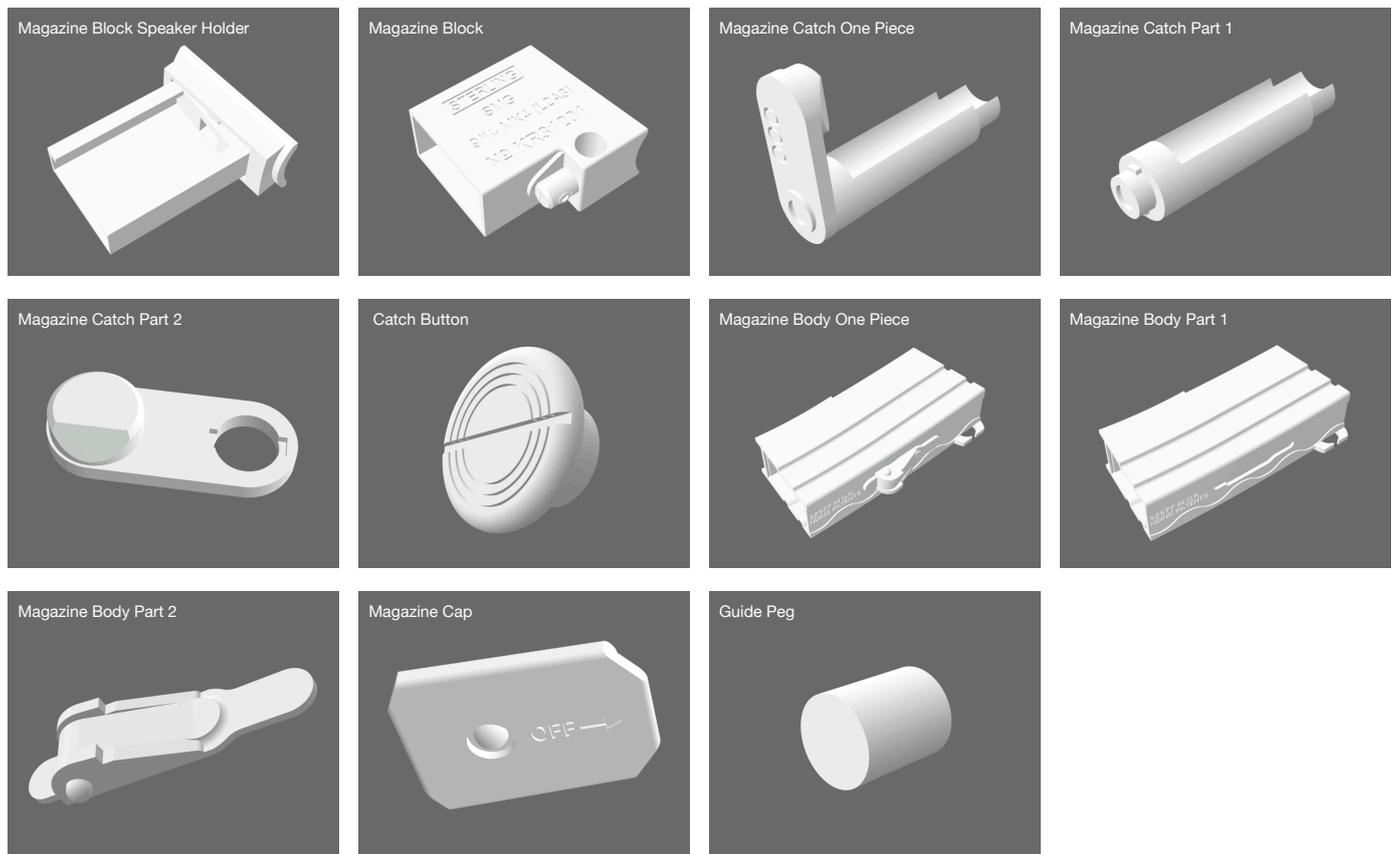
Notes

Front Body can be printed as one piece or printed in two parts.

Screen Holder can be printed as one piece or printed in two parts.

5.5. Magazine

Name	Paint Colour	Supports Yes/No
Magazine Block Speaker Holder	Black	YES
Magazine Block	Black	YES
Magazine Catch One Piece	Black	YES
Magazine Catch Part 1	Black	YES
Magazine Catch Part 2	Black	YES
Catch Button	Black	YES
Magazine Body One Piece	Black	YES
Magazine Body Part 1	Black	YES
Magazine Body Part 2	Black	YES
Magazine Cap	Black	YES
Guide Peg	Black	NO



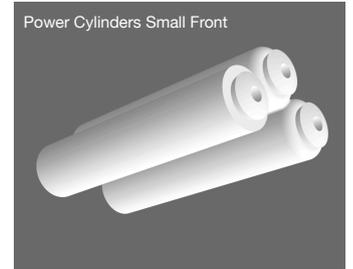
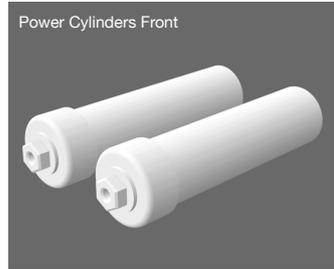
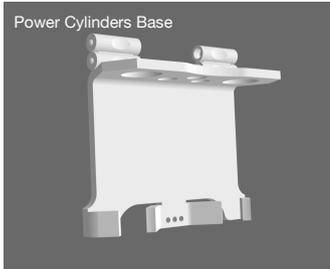
Notes

Magazine Catch can be printed as one piece or printed in two parts.

Magazine Body can be printed as one piece or printed in two parts.

5.6. Power Cylinders

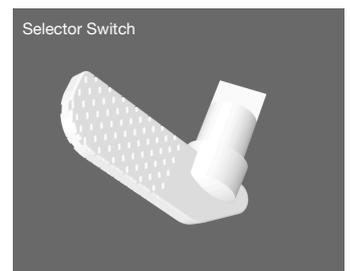
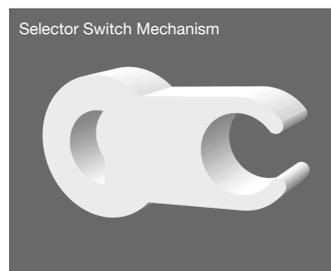
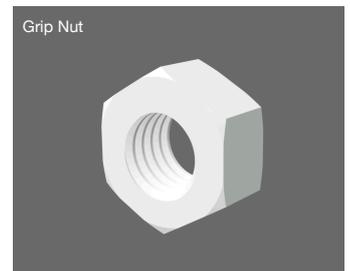
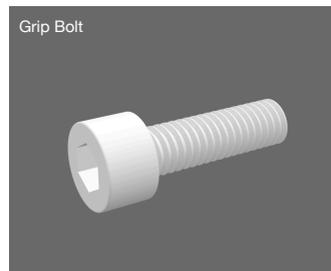
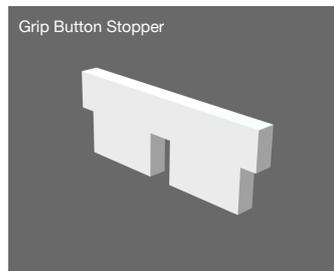
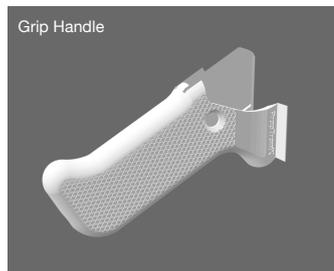
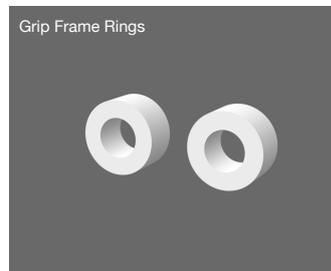
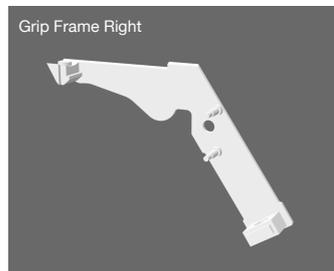
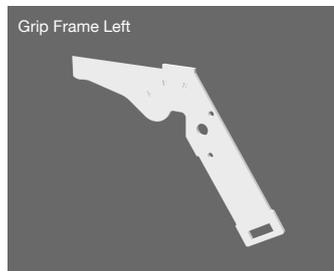
Name	Paint Colour	Supports Yes/No
Power Cylinders Base	Black	NO
Power Cylinders Front	Black	NO
Power Cylinders Back	Black	YES (Build Platform Only)
Power Cylinders Small Front	Black	NO
Power Cylinders Small Back	White	YES

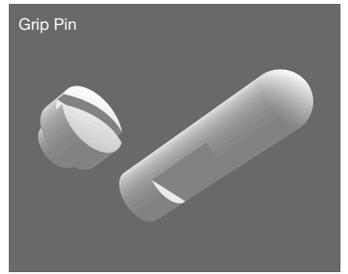
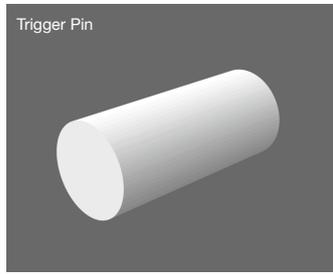


Notes

5.7. Grip and Trigger Assembly

Name	Paint Colour	Supports Yes/No
Grip Frame Left	Black	NO
Grip Frame Right	Black	NO
Grip Frame Rings	Black	NO
Grip Spring	Black	NO
Grip Handle	Black	YES (Inside ONLY)
Grip Button Stopper	Any	NO
Grip Bolt	Black	YES (Build Platform Only)
Grip Nut	Any	NO
Trigger Housing Inner Left	Black	NO
Trigger Housing Inner Right	Black	NO
Selector Switch Mechanism	Any	NO
Selector Switch	Black	YES
Trigger	Black	NO
Trigger Pin	Black	NO
Trigger Guard	Black	NO
Grip Pin	Black	YES

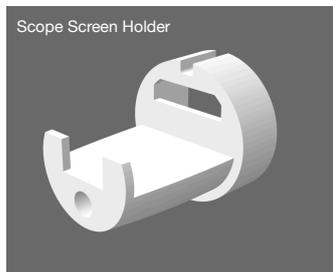
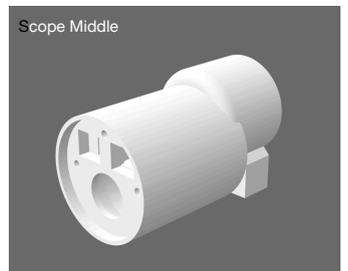
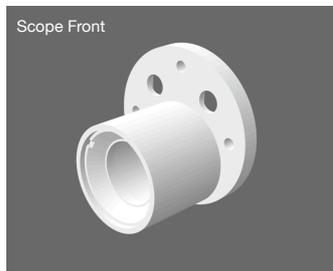
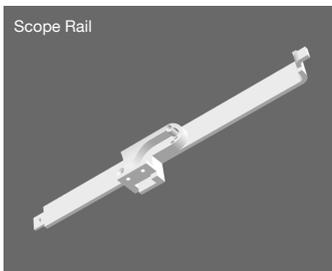




Notes

5.8. Scope & Scope Rail

Name	Paint Colour	Supports Yes/No
Scope Rail	Black	NO
Scope Front	Black	YES
Laser LED Holder	Black	YES
Scope Middle	Black	YES
Scope Back	Black	YES
Scope Screen Holder	Black	YES
Scope Lens Cap	Black	NO



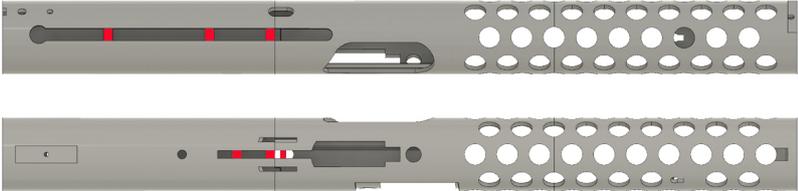
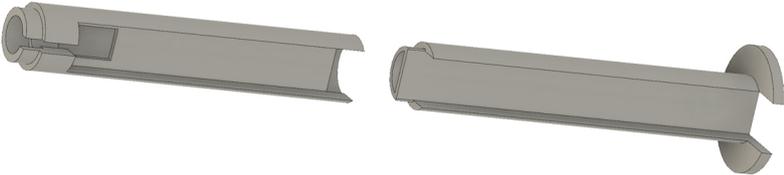
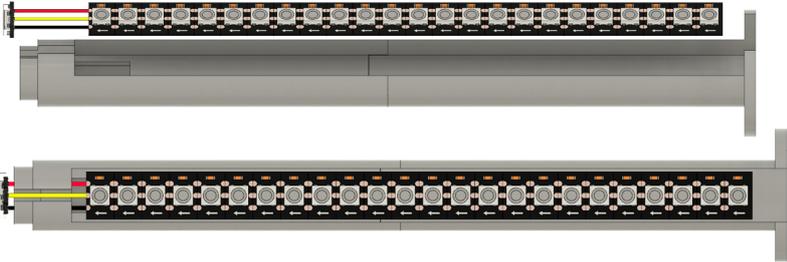
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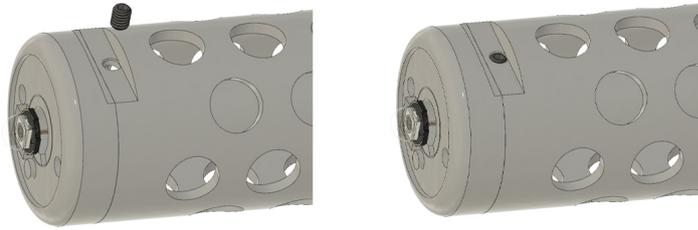
6. Hardware Components

Name & Type	Length	Quantity	Location
M5 Socket Head	16mm	2	Muzzle Bolts
M4 Grub Screw	5mm	1	Barrel Front End to Barrel Front
1.5mm Brass Rod	12mm	1	End Cap Lock Hinge
Spring	0.4 x 4 x 10mm	1	End Cap Lock Spring
M5 Flanged Button Head	12mm	2	Folding Stock Barrel Mount
M3 Flanged Button Head	6mm	4	Folding Stock Front & Shoulder Rest
Spring	0.4 x 4 x 35mm	1	Folding Stock Plunger Spring
M3 Button Head	12mm	2	Hengstler to Scope Rail
Spring	0.4 x 4 x 15mm	1	Magazine Button Spring
M6 Socket Head	20mm	1	Grip to Grip Frame
M6 Nut	10mm (Diameter)	1	Grip to Grip Frame
M4 Button Head	8mm	1	Scope Rear Mount to Scope Rail
M2.5 Screw	12mm	2	Scope Front Mount to Scope Rail
M3 Button Head	8mm	1	Scope Rail to Scope Rear Sight
M2 Cheese Head Screw	6mm	3	Scope Front to Scope Middle
Neodymium Magnet	4 x 3mm	2	Hengstler Screen Holder
Round Glass Cabochon	30mm	1	Scope Lens
Red Transparent Acrylic Film	30mm	1	Scope Lens Film

7. Assembly Guide

7.1. Barrel

	<p>Glue the 3 Barrel Parts together "Barrel Front, Barrel Middle & Barrel Rear"</p>
	<p>Remove the Print Support Tabs marked in RED</p>
	<p>Glue the 2 Parts of the Barrel LED Strip Holder together. "Barrel LED Strip Holder Part 1 & Barrel LED Strip Holder Part 2"</p>
	<p>If installing Electronics place the LED Strip with the Fire LED into the LED Barrel Holder Strip Holder.</p> <p>Electronics: 1 x WS2812B Neopixel LED Strip 1 x WS2812B Single Neopixel</p>
	<p>Slide the Completed LED Strip Holder into the Front of the Barrels</p>
	<p>Slide the Barrel Front End onto the Front Barrel Front (DO NOT GLUE)</p>



Secure the Barrel Front End to the Barrel Front with the M4 x 5mm Grub Screw

Hardware:

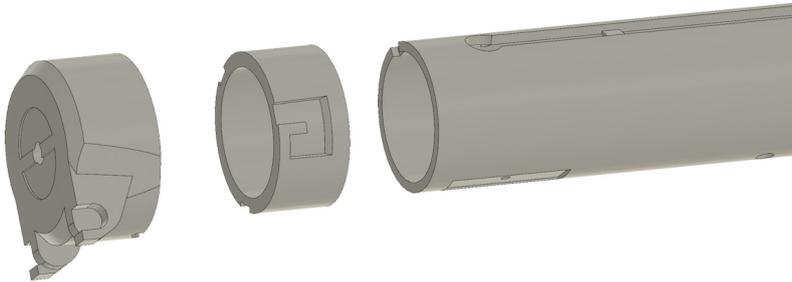
1 x M4 x 5mm Grub Screw



Fit the Fire LED into the Barrel Muzzle and Secure with Hot Glue. Next Secure the Barrel Muzzle to the Barrel Front End using 2 x M6 x 20mm Socket Head Screws

Hardware:

2 x M6 x 20mm Socket Head Screws



Glue the Barrel End Cap Retainer onto the back of the back end of the Barrel. Now fit the Barrel End Cap by Sliding onto the Retainer and Turning it. (it should move in and out a few mm.)

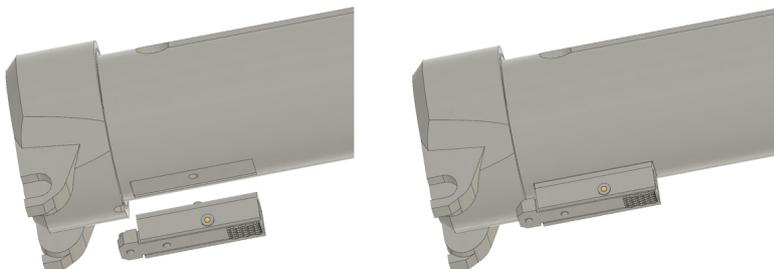


Place the 0.4 x 4 x 10mm Spring into End Cap Lock Part 1, then place End Cap Lock Part 2 into Part 1 and Secure with the 12mm x 1.5mm Brass Rod

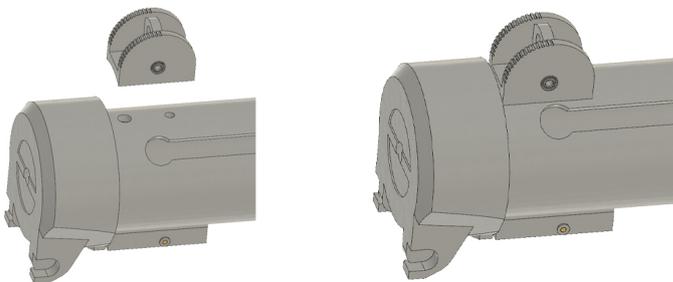
Hardware:

1 x 0.4 x 4 x 10mm Spring

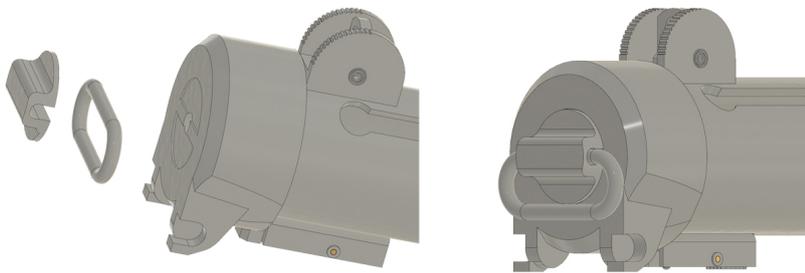
1 x 1.5mm x 12mm Brass Rod



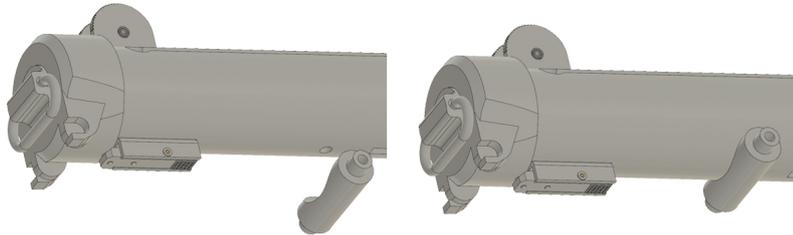
Glue the Completed Barrel Cap Lock to the underside of the Rear Barrel



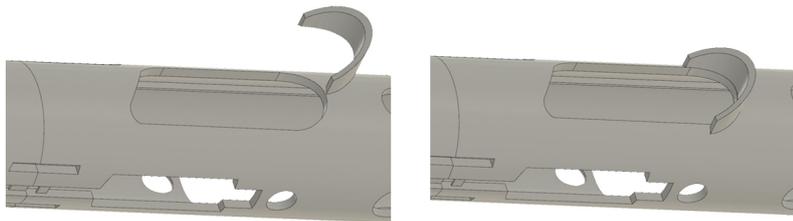
Glue the Rear Sight to the top of the Rear Barrel



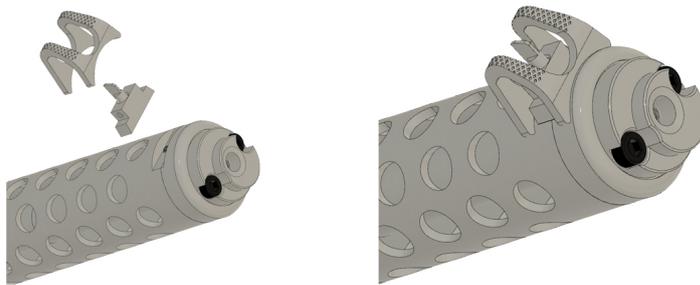
Place the D-Ring into the groove on the D-Ring Mount, then Glue the D-Ring Mount to the back of Barrel End Cap



Glue the Stock Barrel Mount to the underside of the Rear Barrel



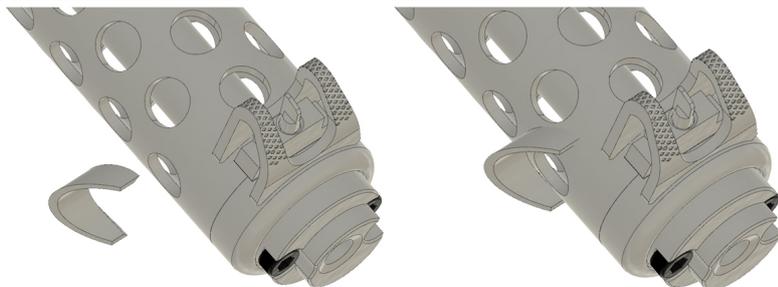
Glue the Middle Flash Guard to the Right Side of the Barrel



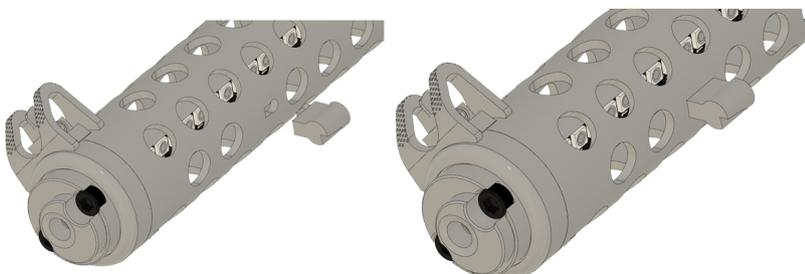
Hot Glue the Front Sight into Position and the Hot Glue the Front Sight Guard in place as you may need to remove these later to get to the Barrel Fire LED and LED Strip.

Hardware:

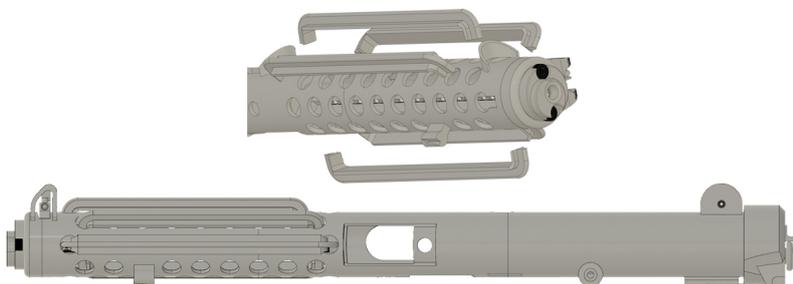
- 1 x 0.4 x 4 x 10mm Spring
- 1 x 1.5mm x 12mm Brass Rod



Glue the Front Flash Guard to the Right Side of the Barrel just behind the first hole on the Right Side.

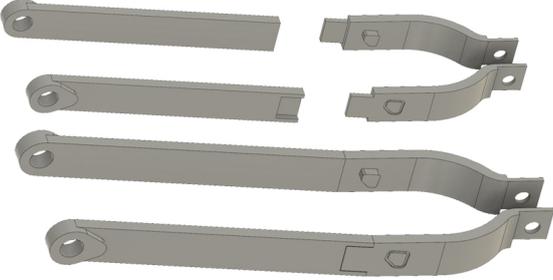
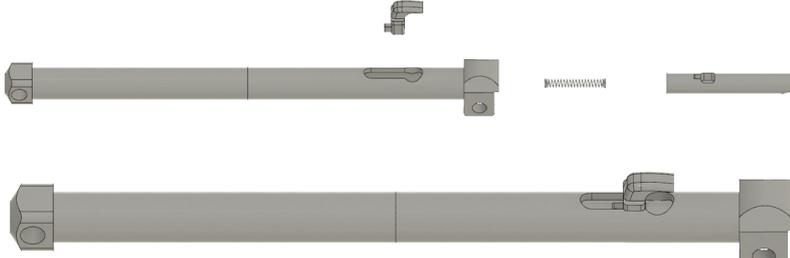
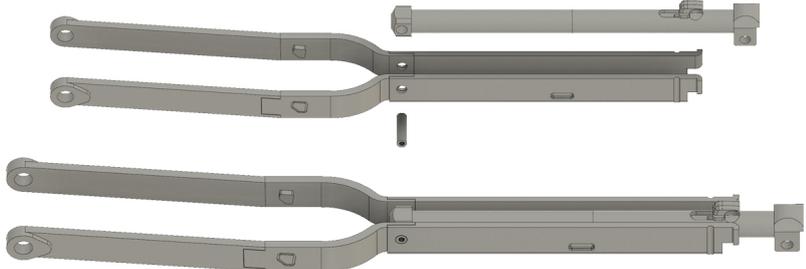
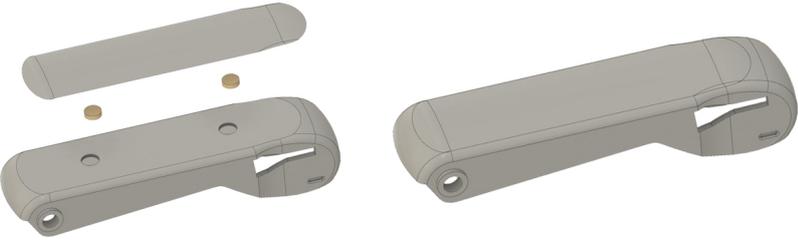


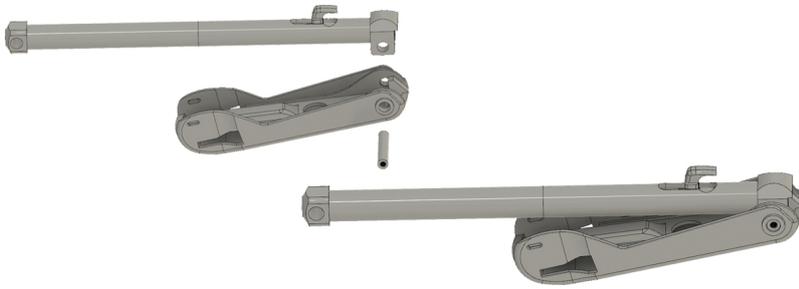
Glue the Bayonet Lug into the Small Hole on the Left Side behind the first 2 holes.



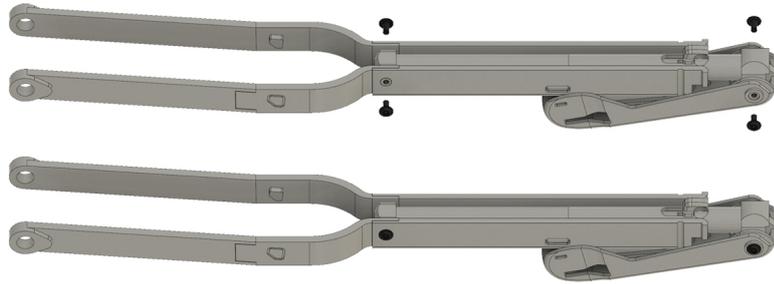
Glue the T-Tracks in Place. Longest one goes on the Left Side. The 5 Shorter ones cover the other holes (Except the Bottom Set of Holes and the Holes where the Bayonet Lug is)

7.2. Folding Stock

	<p>Glue the Folding Stock Back Arms to the Folding Stock Front Arms.</p>
	<p>Glue the Folding Stock Arms to the Folding Stock Front</p>
	<p>Glue the 4 Parts of the Folding Stock Rod together.</p>
	<p>Place the Folding Stock Plunger Spring into the Folding Stock Rod followed by the Folding Stock Plunger and Secure in Place by Gluing in the Folding Stock Retainer.</p>
<p>Hardware: 1 x 0.4 x 4 x 35mm Spring</p>	
	<p>Place the Completed Folding Stock Rod into the Folding Stock Front and Secure with the Folding Stock Middle Pin (DO NOT GLUE these Parts).</p>
	<p>Glue the 2 Parts of the Shoulder Rest together using the 2 x Shoulder Rest Joining Pins to align the 2 Parts.</p>
	<p>Glue the Folding Stock Leaf Spring into the Holes on the Folding Stock Catch,</p>



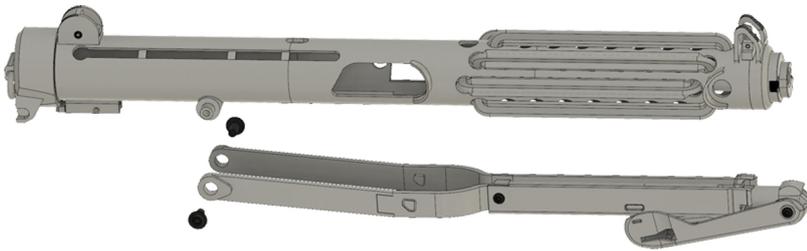
Place the Completed Catch into the Shoulder Rest and Place onto the End of the Folding Stock Rod, Secure with the Folding Stock Front Pin (DO NOT GLUE).



Fit 4 x M3 x 6mm Flanged Screws to either side of the Pins.

Hardware:

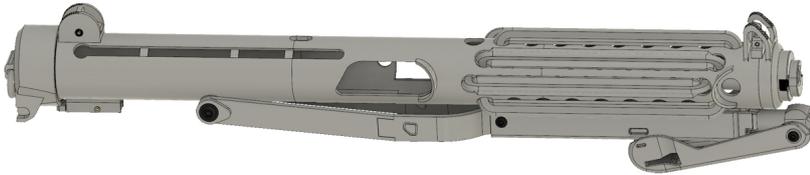
4 x M3 x 6mm Flanged Button Head Screws



Place the Completed Folding Stock onto the Folding Stock Barrel Mount and Secure with 2 x M5 x 12mm Flanged Button Head Screws (DON'T DO UP TOO TIGHT).

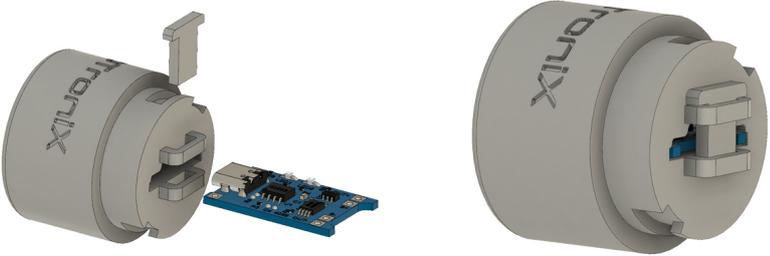
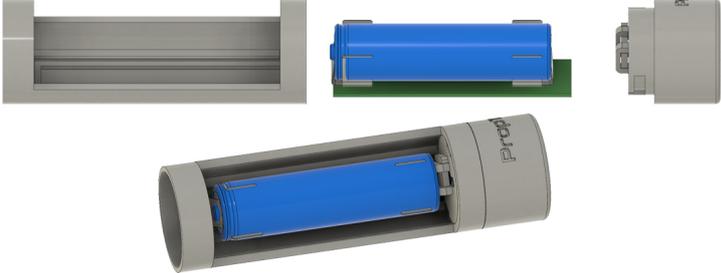
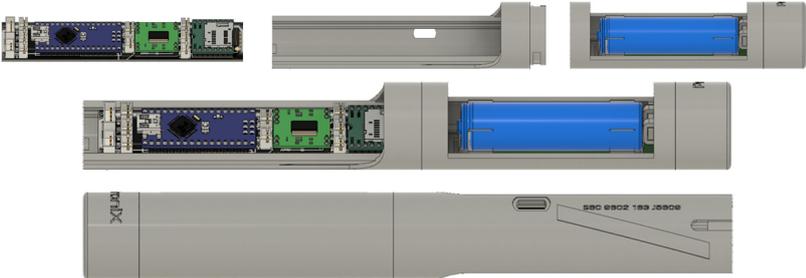
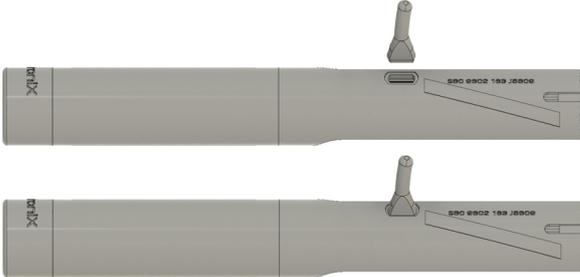
Hardware:

2 x M5 x 12mm Flanged Button Head Screws

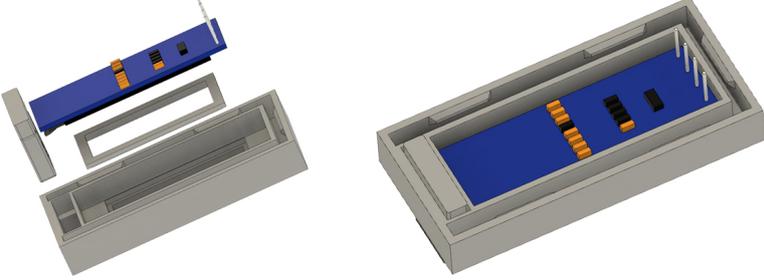
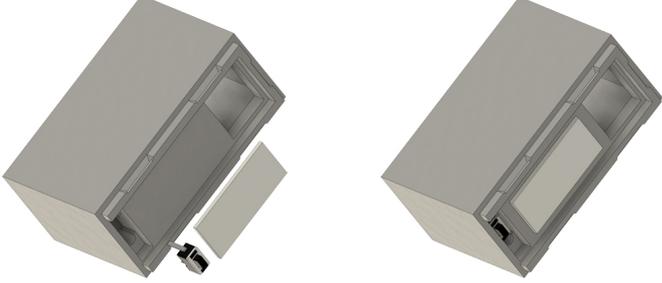
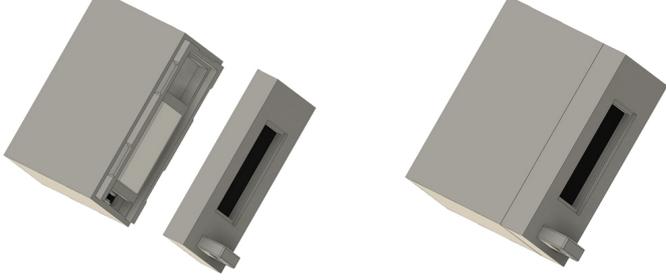
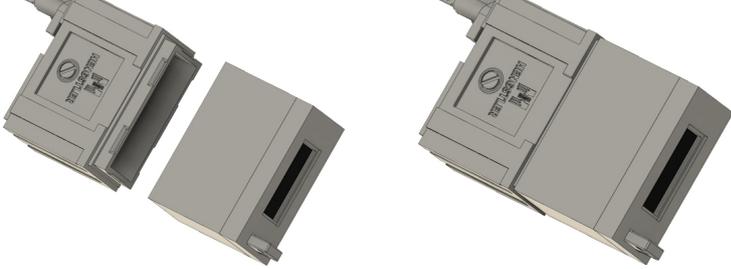


Barrel & Folding Stock Completed.

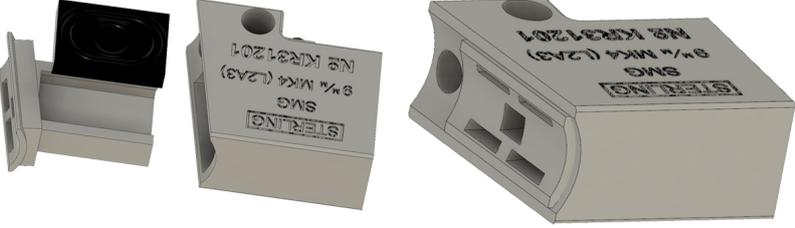
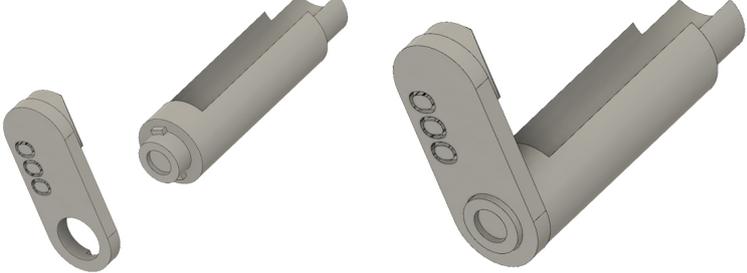
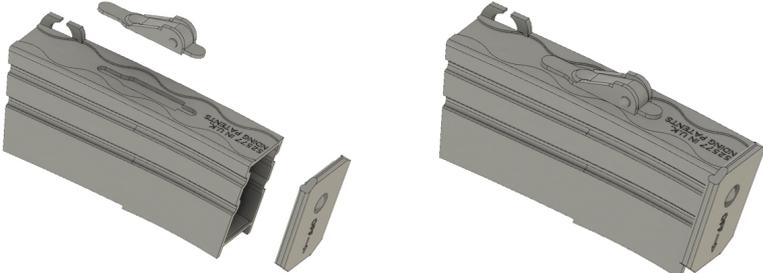
7.3. Chassis

	<p>If installing the Electronics place the TP4056 Battery Charger PCB into the Charger Port and Secure with the PCB Stopper.</p> <p>Electronics: 1 x TP4056 Battery Charger PCB</p>
	<p>If installing the Electronics Slide the Battery Holder PCB into the Chassis Battery Holder. Then Push and Twist the Charger Port onto the End of The Chassis Battery Holder.</p> <p>Electronics: 1 x Battery Holder PCB & 18650 Battery.</p>
	<p>If installing the Electronics Slide the PCB into the Barrel Bolt. Then Push and Twist the Barrel Bolt to Secure on the Chassis Battery Holder.</p> <p>Electronics: 1 x BLTroniX E-11 blaster PCB</p>
	<p>Push Fit the Charger Lever into the Barrel Bolt (DO NOT GLUE) Set the Chassis aside until later in the build.</p>

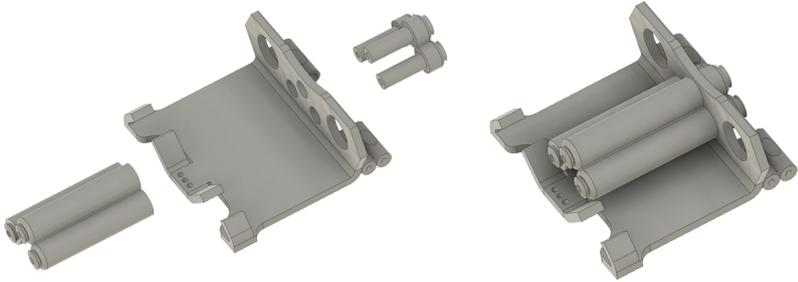
7.4. Hengstler Unit

	<p>Glue the Front Plat onto the Hengstler Front, then the Tubes onto the Plate. Glue the Front Grill onto the Front of the Hengstler Font. Fianna Glue the Terminals into the Front of the Tubes.</p>
	<p>Glue the Screen Holder Surround inside the Screen Holder. Then if installing Electronics place the OLED Display into the Screen Holder and Slide the Button into the hole (DO NOT GLUE)</p> <p>Electronics: 1 x 0.91" OLED Display</p>
	<p>If installing Electronics Stick the Stick Pad onto the Hengstler Rear to hold the OLED in Place and insert the 6 x 4mm Switch in the Hole.</p> <p>Electronics: 1 x 6 x 4mm Tactile Switch</p>
	<p>Snap Fit the Hengstler Screen Holder on the the Hengstler Rear.</p>
	<p>Snap Fit the Hengstler Back onto the Hengstler Front. Set the Hengstler aside until later in the build.</p>

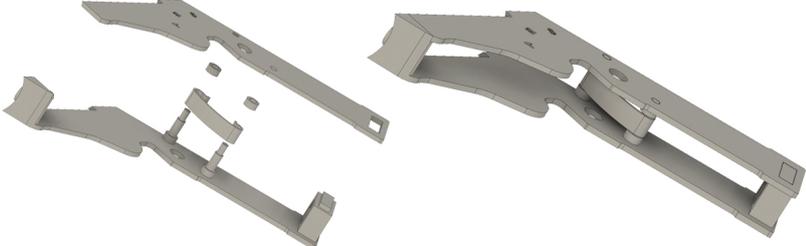
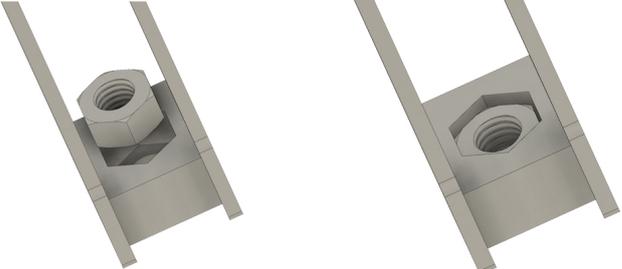
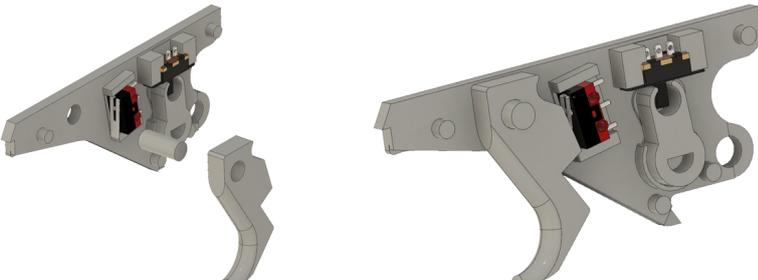
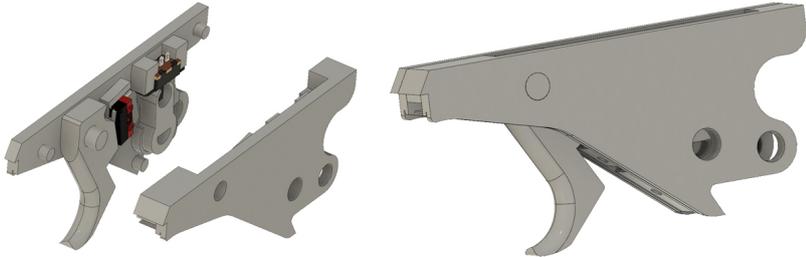
7.5. Magazine Unit

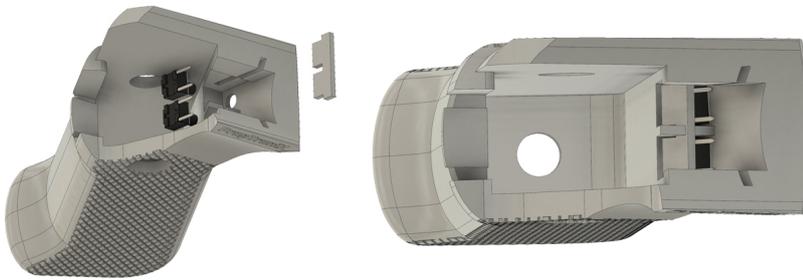
	<p>If installing Electronics, Slide the Speaker into the Speaker Holder, then Glue the Speaker Holder into the Hengstler Block</p> <p>Electronics: 1 x Flat Speaker</p>
	<p>Glue the Magazine Catch Bottom to the Magazine Top.</p>
	<p>Slide the Magazine Catch up through the Magazine Block from the Bottom. Then Slide the Spring into the hole from the Top and then Push Fit (or Glue) the Magazine Button onto the Top of the Magazine Catch.</p> <p>Hardware: 1 x 0.4 x 4 x 15mm Spring</p>
	<p>Glue the Magazine Body Part 2 to the Magazine Body Part 1 and Glue the Magazine End Cap to the End of the Magazine Body.</p>
	<p>Glue the Magazine Block onto the side of the Barrel using the Guide Peg to make sure it's in the correct place.</p>
	<p>Slide the Magazine into the Magazine Block and Check the Button Releases the Mag.</p>

7.6. Power Cylinders

	<p>Glue the Power Cylinders Small Front to Power Cylinders Small Front through the Base.</p>
	<p>Glue the Power Cylinders Left & Right Front to Power Cylinders Left & Right Back through the Base.</p>
	<p>Glue the completed Power Cylinders to the Top of the Magazine Block.</p>

7.7. Grip & Trigger Assembly

	<p>Place the Grip Spring over the 2 Pegs with the Long Face Facing towards the Front, then the 2 Grip Frame Rings, then Glue the Grip Frame Left onto Grip Frame Right.</p>
	<p>Place or Glue the 3D Printed or Real M6 Nut into the Bottom of the Grip Frame. Set the Grip Frame aside until later in the build.</p> <p>Hardware: 1 x M6 Nut</p>
	<p>If installing the Electronics Hot Glue the Lever Switch and Slide Switch into Position.</p> <p>Electronics: 1 x Mini Lever Switch 1 x Mini Slide Switch</p>
	<p>Place the Switch Mechanism in place so it operates the Mini Slide Switch (DO NOT GLUE).</p>
	<p>Push the Trigger Pin into the Hole on Trigger Housing Inner Right and slide the Trigger on. Make sure the Trigger moves freely and activates the Lever Switch. This acts as a spring.</p>
	<p>Push Fit or Hot Glue Trigger Housing Inner Left to Trigger Housing Inner Right. You may need access in future to change a Switch.</p>
	<p>Slot the Trigger Guard in Place. This can be Hot Glued if Needed. Set the Trigger Housing aside until later in the build.</p>



If installing the Electronics place the 2 6mm Tactile Switches in the 2 Holes in the Grip Handle, then Slide the Button Stopper down behind the 2 Buttons and Hot Glue in place.

Electronics:
2 x 6 x 6mm Tactile Switches



Glue the Grip Frame to the Underside of the Barrel.



Carefully Slide the Trigger Housing up inside the Grip Frame. (DO NOT GLUE).

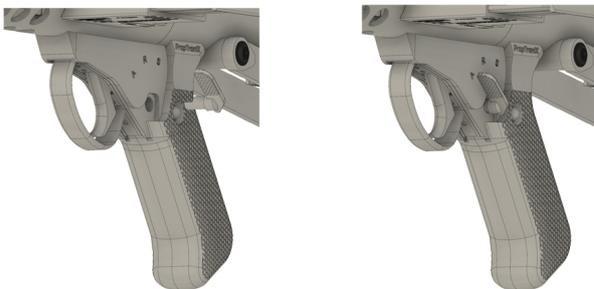


Slide the Grip Handle Over the Grip Frame and Secure in Place with either the 3D Printed M6 Bolt or a Real One. (DO NOT OVER TIGHTEN)

Hardware:
1 x M6 x 20mm Socket Head screw



Glue Grip Pin Part 1 to Grip Pin Part 2, then carefully Push through the Hole in the Side of the Grip Handle past the Grip Spring. (DO NOT GLUE).

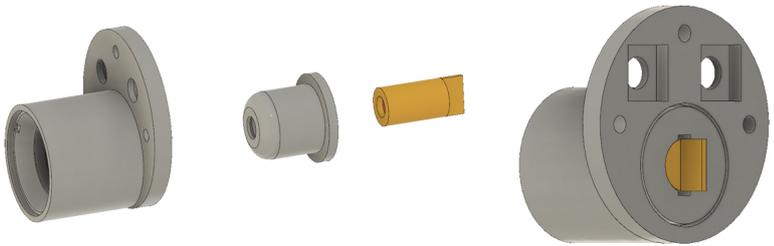
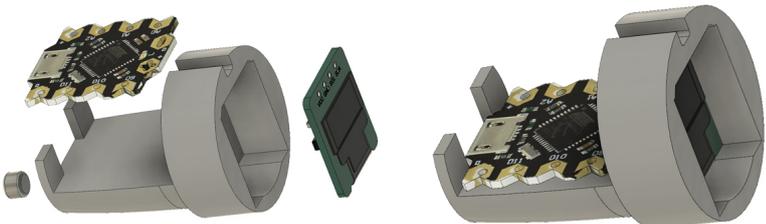


Push Fit or Hot Glue the Selector Switch through the Hole in the Right Side into the Switch Mechanism.



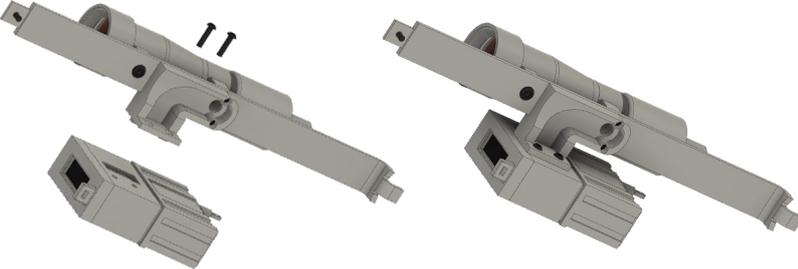
Nearly there.

7.8. Scope & Scope Rail

	<p>If installing the Electronics Slide the Laser LED Diode into the Scope Laser Holder, then Slot the Scope Laser Holder into the Scope Front. (NO NEED TO GLUE)</p> <p>Electronics: 1 x 5v LED Laser Diode</p>
	<p>If installing the Electronics insert the 2 x 6mm Tactile Switch in the Holes in the Front of the Scope Middle.</p> <p>Electronics: 2 x 6 x 6mm Tactile Switches</p>
	<p>Place the Scope Front with Laser Holder onto the Scope Middle and Secure with the 3 x Cheese Head Screws. (DO NOT GLUE)</p> <p>Hardware: 3 x M2 x 6mm Cheese Head Screws</p>
	<p>Position the DFRobot Beetle and 0.49" OLED Display in the Screen Holder and Glue the 4mm x 3mm Neodymium Magnet in the Hole at the Back.</p>
	<p>Glue a 4 x 3mm Neodymium Magnet in the Hole at the Back of the Scope Back and Slide the Screen Holder Down inside the Scope Back Part. (DO NOT GLUE).</p>
	<p>Place the Round Glass Cabochon in the Lens Cap from the Back, then Place the Red Transparent Acrylic Film behind the Glass Lens.</p> <p>Electronics: 5V Red Dot Laser Diode LED</p>

	<p>Push and Twist Fit the Scope Lens Cap into the Front of the Scope Back. (DO NOT GLUE).</p> <p>Electronics: DFRobot Beetle 0.49" OLED Display</p>
	<p>Push Fit the 2 Parts of the Scope together. (.DO NOT GLUE)</p>
	<p>Place the Completed Scope on the Scope Rail and Secure using the M4 x 8mm and M2.5 x 12mm Button Head Screws.</p> <p>Hardware: 1 x M4 x 8mm Button Head Screw 2 x M2.5 x 12mm Screws</p>

7.9. Hengstler to Scope Rail

	<p>Fix the Hengstler to the Scope Rail using 2 x M3 x 12mm Button Head Screws.</p> <p>Hardware: 2 x M3 x 12mm Button Head Screws</p>
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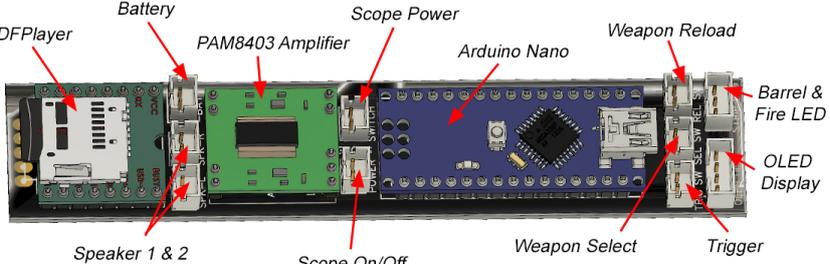
7.10. Scope Rail to Barrel

	<p>Slot the Front of the Scope Rail into the Last Hole on the Front Barrel, then use the M3 x 8mm Button Head Screw to Secure the Back of the Scope Rail to the Rear Sight.</p> <p>Hardware: 1 x M4 x 8mm Button Head Screw 2 x M2.5 x 12mm Screws</p>
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7.11. Chassis to Barrel

	<p>Remove the End Cap and (If installing Electronics - Connecting all the Wires) Slide the Chassis inside the Barrel.</p>
	<p>Fit the Charger Lever to the Bolt. Push Fit or Hot Glue. Place the End Cap Spring inside the Barrel End and Re-Fit the Barrel End Cap.</p> <p>Hardware: 2 x M3 x 25mm Button Head Screws</p>

7.12. BLTroniX E-11 PCB Electronics

 <p>BLTroniX E-11 Blaster PCB</p>	<p>Diagram of the BLTroniX E-11 Blaster PCB Payout</p> <p>Electronics: E-11 Blaster PCB Arduino Nano DFPlayer Mini PAM8403 Amplifier</p>
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8. Completed Images



E-11 Blaster Right Side

[View Larger Image](#)



E-11 Blaster Left Side

[View Larger Image](#)



E-11 Blaster Left Side

[View Larger Image](#)



E-11 Blaster Right Side

[View Larger Image](#)

E-11 Blaster - BLTroniX Electronics Kit Demo



E-11 Blaster Electronics



10. Links to the Additional Kits

To purchase any of the Kits just Click the Link to the Right.

<p>E-11 Blaster BLTroniX Electronics Kit Available as a Self Build or Pre Built Kit.</p>	<p>E-11 Electronics Kit</p>
<p>E-11 Blaster Scope Electronics Kit Add-On Adds an Animated Reticle and Red Dot Laser to the Scope. Available as a Self Build or Pre-Built Kit.</p>	<p>Scope Add-On Kit</p>
<p>E-11 Blaster Rifle Hardware Kit - V3 Contains all the Screws and Springs Needed for your E-11 Stormtrooper Blaster Rifle Build.</p>	<p>Hardware Kit - V3</p>

Other Electronics Kits and Components are available for your Prop Builds so why not Visit the [PropTroniX Store](#).