Duplex Designs' Ghost In The Shell Section 9 Glock 17

Introduction

At Duplex Designs we do love a great sci-fi weapon. Although our favourite has got to be Deckard's blaster from the movie Blade Runner the weapons seen in the live action movie Ghost in The Shell really stood out as well.

This model is of the Section 9 standard issue sidearm based on the Glock 17.

OK, we are a little late to the party with this model as the movie came out in 2017, but we believe the weapon is interesting enough to warrant its creation here in 2026.

Why This Model Was Created

We have not seen another model of this pistol.
Based on actual Glock 17 dimensions this model is pretty accurate to the available stunt prop photos.

Project Skill Level Required

Because of the level of detail and number of parts this model is not suitable for beginners. You will need a medium level of skill in 3D printing and modelling to do justice to this model.

Part tolerances are pretty much the same as an actual Glock so depending on what you create the parts with you may need to do some sanding and finishing to get parts to fit.

For example, FDM printing at 0.08mm layer height using a 0.4mm nozzle is good enough for a great fit for the assembly but as soon as you start to use resin parts the differences in resin shrinkage and tolerance will start to show.

NOTE: Although the model contains lots of detailed parts it should *not* be expected that final build will perform all the mechanical actions expected of the real pistol and you stand a good chance of breaking things if you try and rack the slide.

Please consider this a static model. Yes, you can field strip and rebuild this pistol just like the real Glock 17 but please use it for display purposes only.

Build Material Choices

FDM Printer

We have had good results with at 0.08mm layer height using a 0.4mm nozzle using PLA and the parts fit is excellent.

It is also noted that larger parts such as the frame, slide and grip, may well exhibit VFA or ghosting which will require extra sanding and polishing.

The laser unit side panels contain very fine text. For absolute clarity it is recommended that resin printing is used for these panels.

Resin Printer

Necessary for the fine text on the sides of the laser unit. Also great for all the small parts inside the slide.

Resin is quite unpredictable when it comes to shrinkage or indeed expansion and is very dependent on the resin used, cure times and how well the model has been sliced and supported so when it comes to larger items such as the grip, frame and magazine tube you may find a lot of sanding and finishing is required for a good fit of parts.

Hardware Required

The only parts that cannot be 3D printed are the springs. The slide stop spring and magazine springs are the exception, but you may find these too brittle if resin printed.

The other springs are simply impossible to print therefore it is recommended that you purchase some springs if you want to fit them or omit springs all together.

Spring List

- Recoil Spring 11mm diameter, 70mm length

- Ejector Rod Spring 4mm diameter, 18mm length

- Firing Pin Spring 6mm diameter, 35mm length (ID of at least 5.5mm required)

- Trigger Safety Plunger Spring 2.8mm diameter, 9mm length

- Magazine Release Spring 1mm diameter, 36mm Length - Spring Steel Bar or Rod

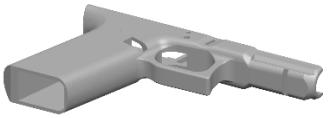
- Laser Unit Bolt Hex Head M3 x 8mm (X2)

- Laser Unit Bolt Hex Head M3 x 12mm (X2)

You have a choice on spring wire thickness, but we would suggest a maximum of 0.3mm, so they are not too strong.

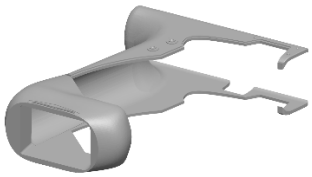
Parts List

Following is a list of STL model parts along with notes. (ALT = There are alternative parts that can be used.)



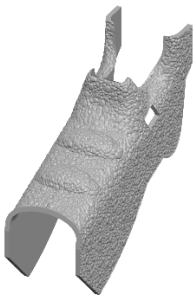
Frame
Use this frame with either the Grip Outer and Grip Inner parts or the Grip Composite.
Or use Grip Frame Composite instead.

Print X **1** ALT



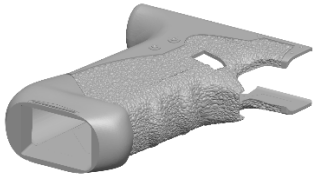
Grip Outer
Use with Grip Inner or replace with Grip Composite or Grip Frame Composite. FDM printing recommended.

Print X **1** ALT



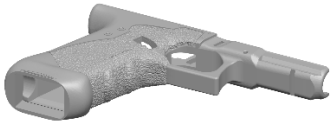
Grip Inner
Use with Grip Outer or replace with Grip Composite or Grip Frame Composite. FDM printing recommended.

Print X **1** ALT



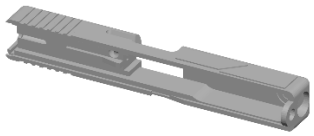
Grip Composite
Use instead of Grip Inner and Grip Outer or replace with Grip frame Composite.

Print X **1** ALT



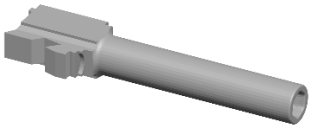
Grip Frame Composite
Use this instead of Frame and Grip Inner + Grip Outer or Grip Composite.

Print X **1** ALT



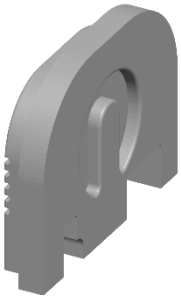
Slide

Print X **1**



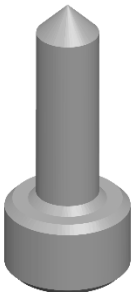
Barrel

Print X **1**



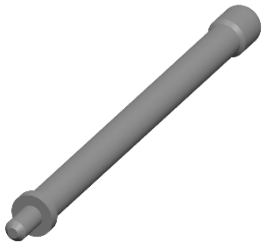
Slide Cover Plate

Print X **1**



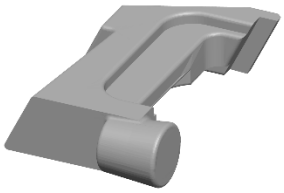
Extractor Bearing
Internal part of rear slide.

Print X **1**



Extractor Plunger
Internal part of rear slide.

Print X **1**

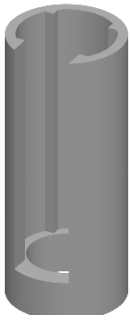


Extractor
Standard Glock extractor.

Print X **1**

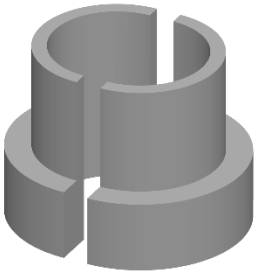
Firing Pin
Internal part of rear slide.

Print X **1**



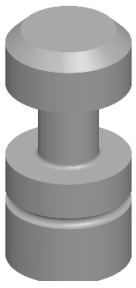
Strike Sleeve
Internal part of rear slide.

Print X **1**



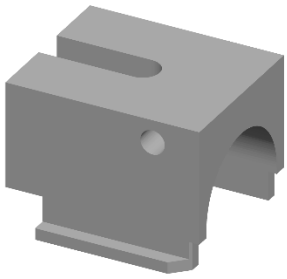
Spring Cup 1 & 2
Internal part of rear slide.

Print X **1**



Firing Pin Safety
Internal part of rear slide.

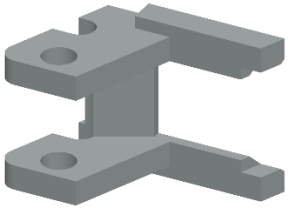
Print X **1**



Front Rail Block
Fits to frame and allows Slide to be fitted onto the rails.

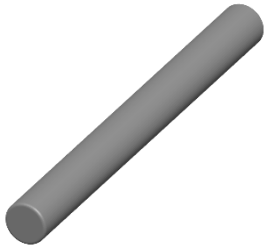
This needs to be glued as the Frame does not have a securing pin.

Print X **1**



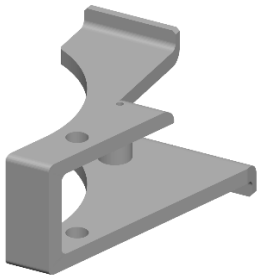
Locking Block
Fits to frame and is locked in with Locking Block Pin and Trigger Pin.

Print X **1**



Locking Block Pin
Fits to frame to lock in Locking Block.

Print X **1**

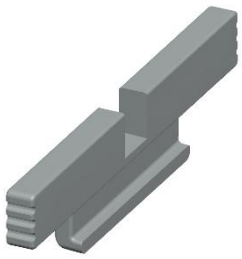


Rear Rail
Fits to rear of Frame and is held in place with Rear Rail Pin.
This allows Slide to be fitted onto the rails.

Print X **1**

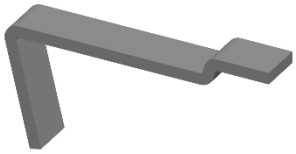
Rear Rail Pin
Holds Rear Rail in position.

Print X **1**



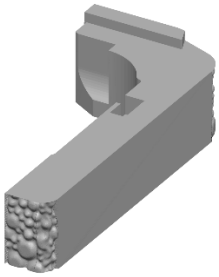
Slide Lock
Slides into frame and locks slide/barrel in place.

Print X **1**



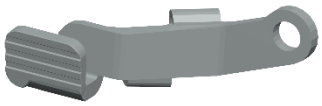
Slide Lock Spring
Spring for Slide Lock.

Print X **1** ALT



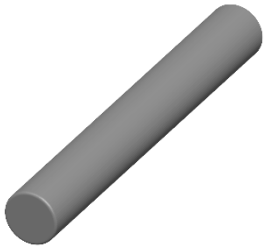
Magazine Catch
Fits to frame to hold in magazine.

Print X **1**



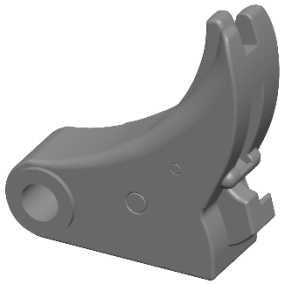
Slide Stop Lever
Held in place by trigger Pin.

Print X **1**



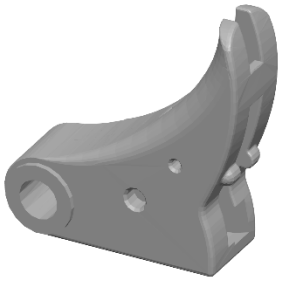
Trigger Pin
Holds in Trigger, Locking Block and Slide Stop Lever.

Print X **1**



Trigger Composite
A trigger variant to simplify printing and assembly. Already contains trigger Safety and pins.

Print X **1** ALT

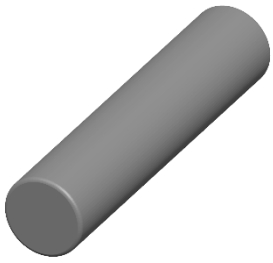


Trigger
Trigger body for detailed trigger assembly.

Print X **1** ALT

Trigger Safety
Fits into Trigger.
NOTE: Pin to hold in Trigger Safety not supplied as STL as this part would to too small to handle.

Print X **1** ALT

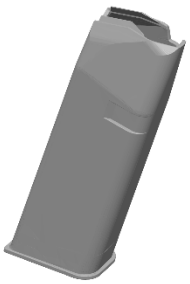


Trigger Bar Pin
Fits into trigger where (Not supplied) trigger bar would be locked in.

Print X **1** ALT

Recoil Guide Rod
Fits between frame and slide and contains the Recoil Spring if fitted.

Print X **1**



Magazine Tube
Contains magazine parts and optional rounds.

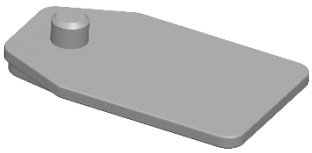
Print X **1**

Magazine Follower
Sits inside Magazine Tube between spring and rounds.

Print X **1**

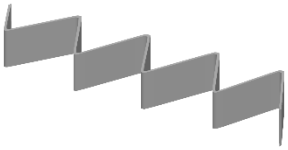
Magazine Floor Plate
Slides on to base of Magazine Tube.

Print X **1**



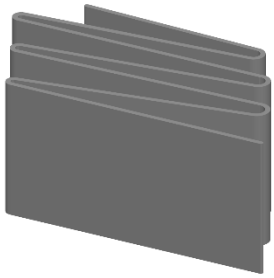
Magazine Insert
Locks the Magazine Floor Plate to the base of the Magazine Tube.

Print X **1**



Magazine Spring
Used when none or few rounds are inserted into magazine.
Best printed on FDM printer.

Print X **1** ALT

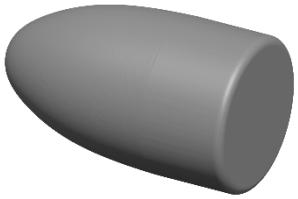


Magazine Spring Compressed
An alternative magazine spring if many rounds are inserted into magazine.
Best printed on FDM printer.

Print X **1** ALT

Rear Sight
Slides into groove on Slide. Not a full rear sight but is as accurate as possible given weapon images available.

Print X **1**

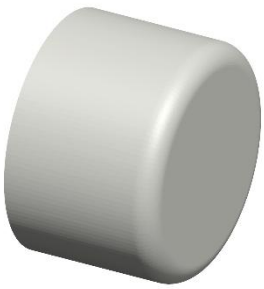


9 X 19 Round Bullet
Bullet to assemble into cartridge for dummy round.
Optional parts to fill magazine but remember these will not be visible.

Print X **0-15**

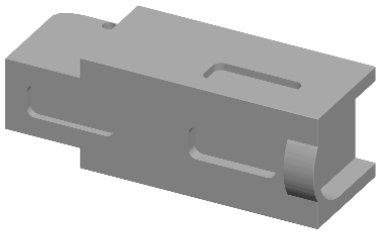
9 X 19 Round Cartridge
Cartridge for dummy round.

Print X **0-15**



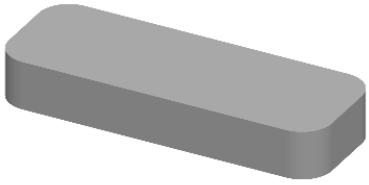
9 X 19 Round Primer
Primer to insert into base of Cartridge.

Print X **0-15**



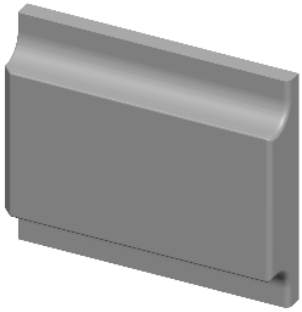
Laser Main Body
Main body of laser unit.
See alternative part Laser Unit Solid that can be printed in one part instead of multiple parts.

Print X **1** ALT



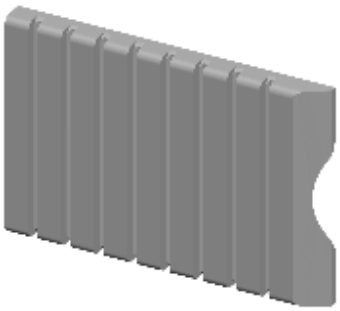
Laser Peg
Used to attach Panel Left, Panel Right, Batt Cover and Heatsink to main body.

Print X **4** ALT



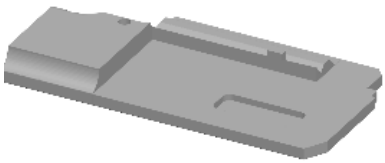
Laser Batt Cover
Fitted to rear underside of Laser Main Body.
Needs to be glued in place.

Print X **1** ALT



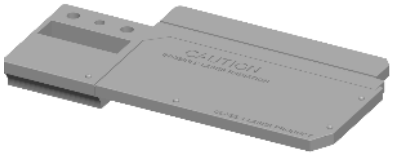
Laser Heatsink
Fitted to front underside of Laser Main Body.
Needs to be glued in place.

Print X **1** ALT



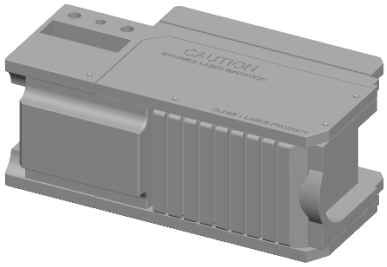
Laser Panel Left
Fits to left side of Laser Main Body. Fine engraved text best suited to resin printing.
Can be glued in place or secured with the M3 bolts.

Print X **1** ALT



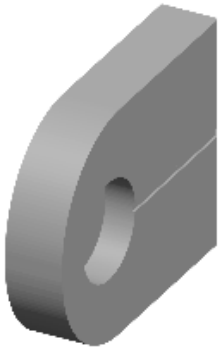
Laser Panel Right
Fits to right side of Laser Main Body. Fine engraved text best suited to resin printing.
Can be glued in place or secured with the M3 bolts.

Print X **1** ALT



Laser Unit Solid
This can be printed instead of the multiple parts used to construct the Laser Unit.

Print X **1** ALT

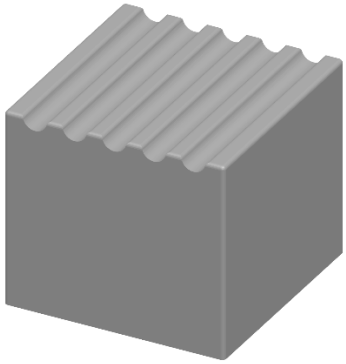


Laser Front Panel
Fitted to front of Laser Main Body or Laser Unit Solid.
Needs to be glued in place.

Print X **1**

Laser Lens
Fits on front of Front Panel.
Needs to be glued in place.

Print X **1**

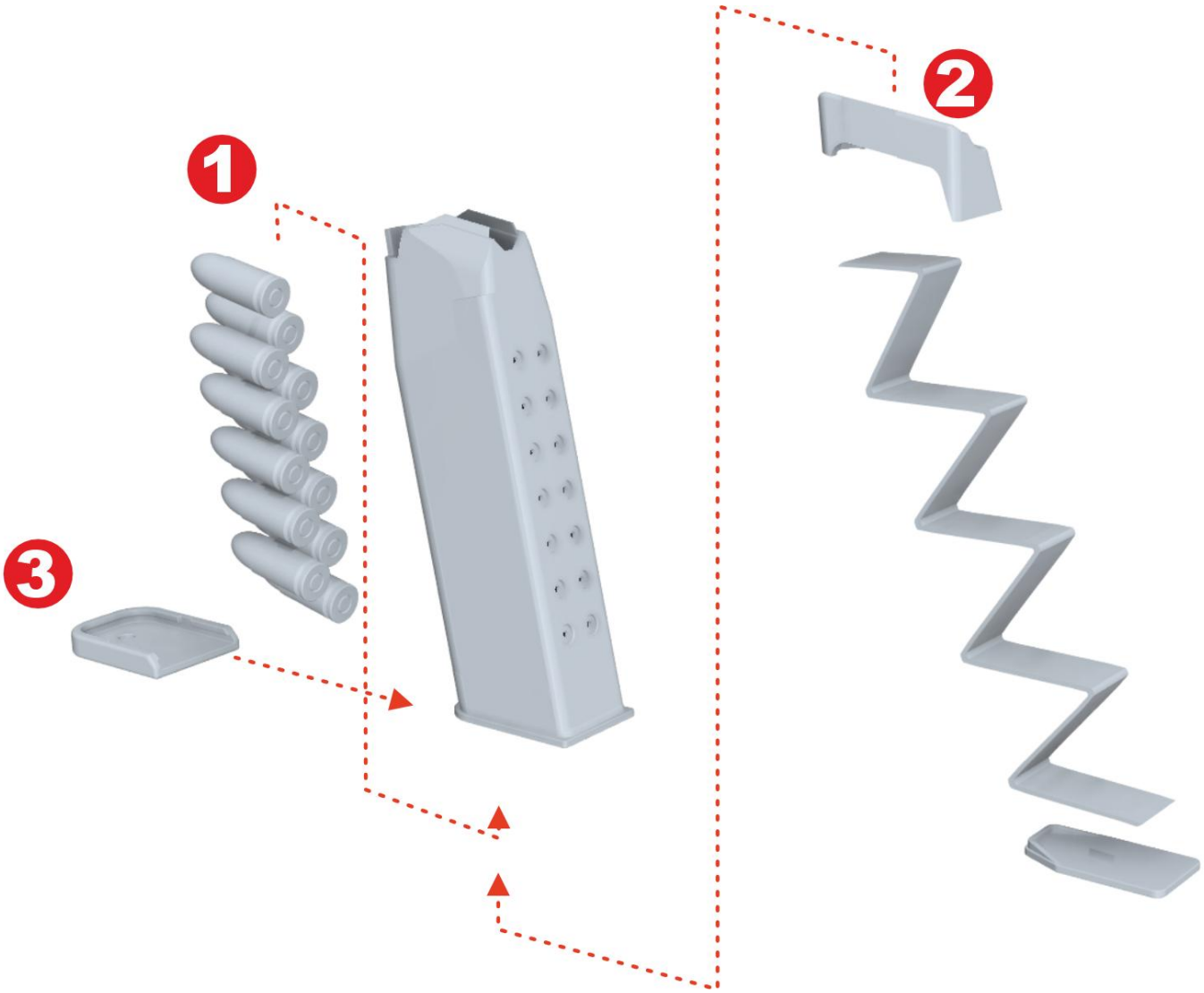


Laser Switch Left + Right
Fits inside cavity on Laser Panel Left + Right or Laser Unit Solid if used instead.

Print X 2

Assembly Sequence

Magazine Sub-Assembly



1. Decide how many rounds you are going to use (If any as they will not be visible). Stack them as shown inside the Magazine Tube.

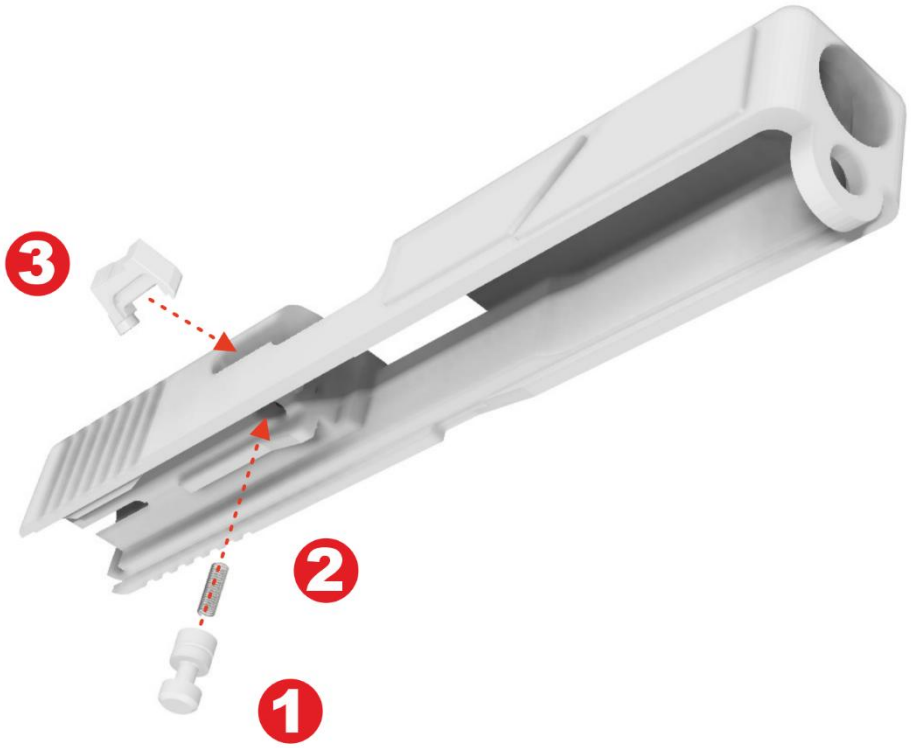
2. Insert the Magazine Follower next then the Magazine Spring. If you are using a lot of rounds you may want to use the Magazine Spring Compressed instead.
   The last part to insert is the Magazine Insert. Hold all of this inside the Magazine Tube and go to step 3.

3. Slide the Magazine Base Plate over the lip at the base of the Magazine Tube. The Magazine Insert has a raised feature that should locate into the hole in the Magazine Base Plate and is held in place by the pressure of the Magazine Spring.

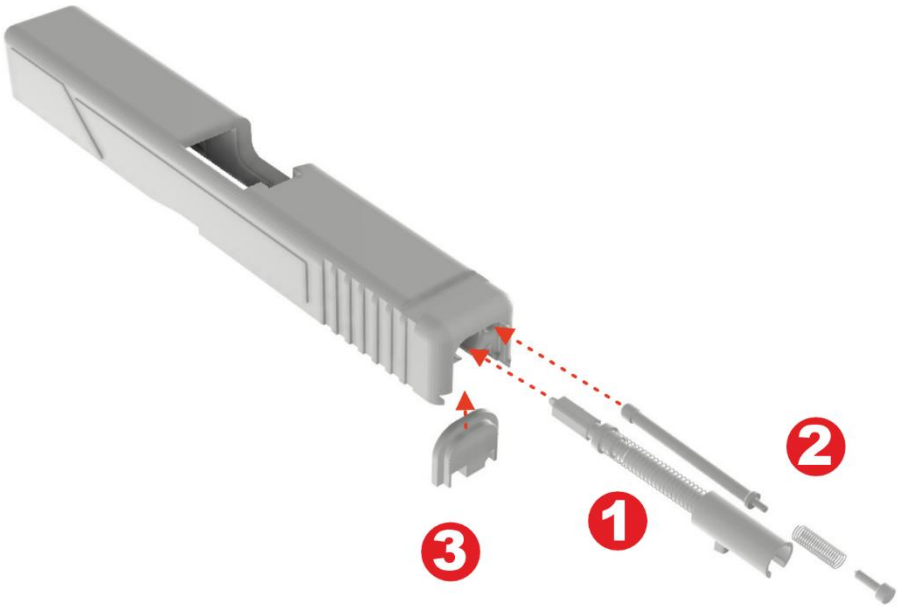
Firing Pin Sub Assembly

1. Slide Firing Pin into Strike Sleeve and through Firing Pin Spring.
2. Slightly pull back spring to allow Caps to sit over Firing Pin.
3. Let Firing Pin Spring relax back over Caps to keep the whole sub-assembly together.

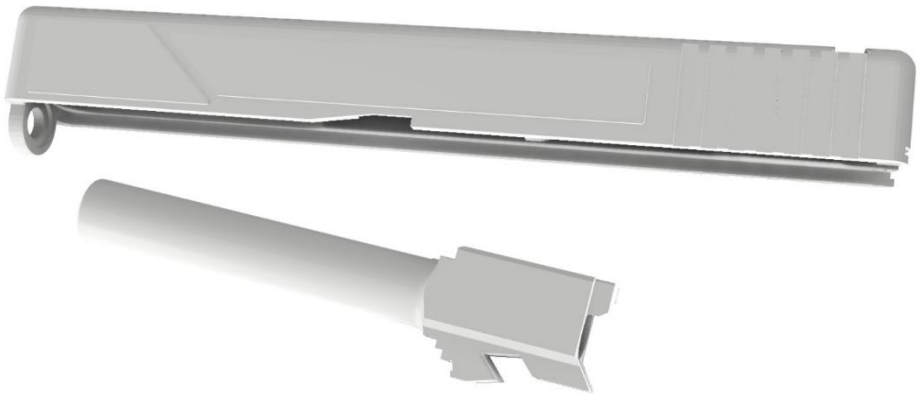
Slide Sub-Assembly



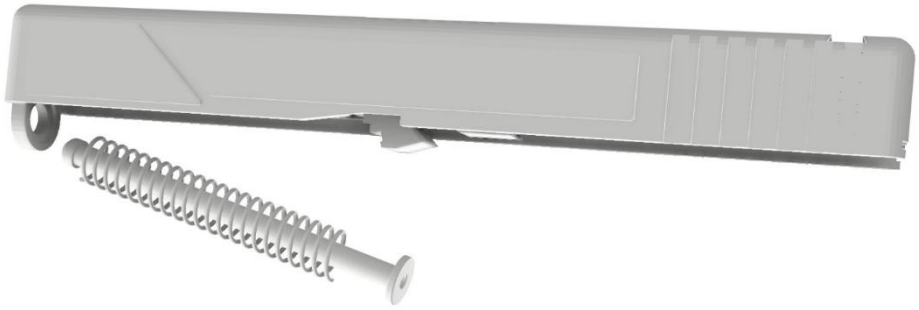
1. Fit together Firing Pin Safety plunger and Firing Pin Safety Spring.
2. Slide these items into the hole on the underside on the Slide Rear.
3. Slide Ejector into the side of the Slide Rear. This keeps the Trigger Safety from popping out again. You may need to hold this together during the later steps.



1. Slide the completed Firing Pin Sub-Assembly into the rear of the Side Rear.
2. Slide the Ejector Rod, Ejector Rod Spring followed by the Ejector Plunger into the smaller hole at the rear of the Rear Slide.
3. Whilst keeping these elements pushed in, slide the Slide Cap up into the grooves at the rear of the Rear Slide.
   This should lock into place being held by the Striker Sleeve. The Ejector rod should now hold the Ejector in place at the side of Rear Slide.



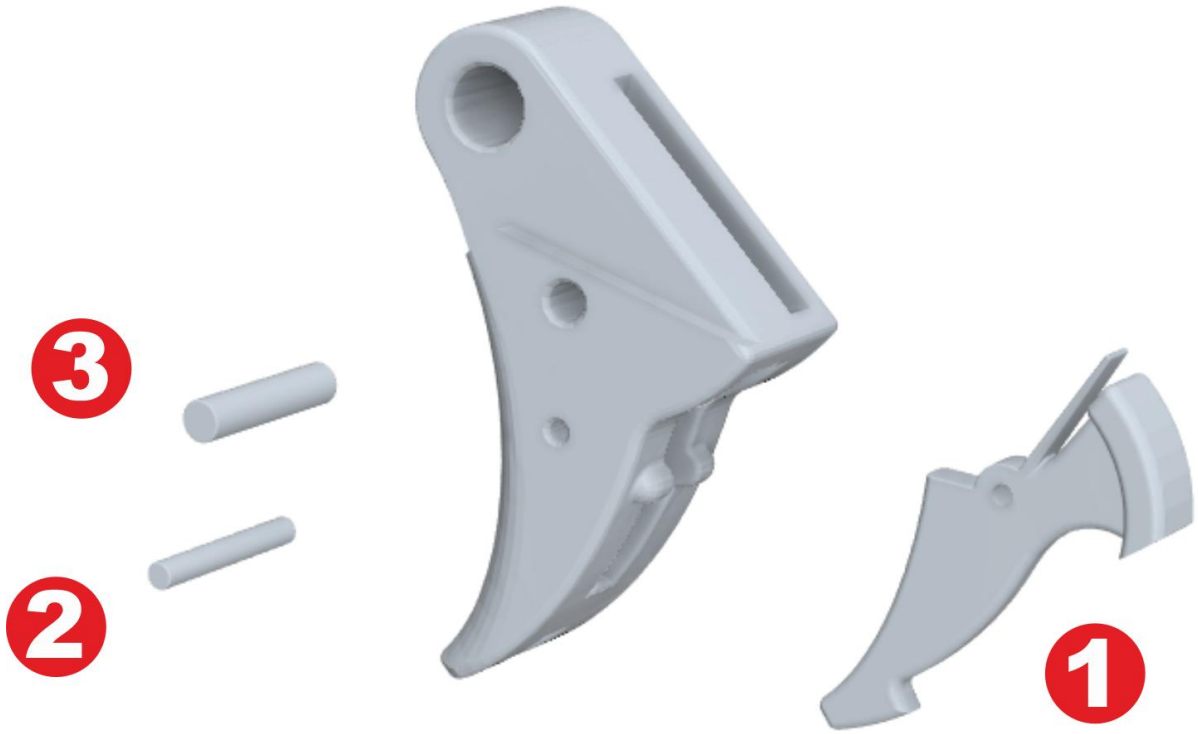
The Barrel can now be slid inside the frame. Start by pushing the front of the barrel up through the barrel hole at the front of the Slide at an angle.



Slide the Recoil Guide into the Recoil Spring and slide that complete assembly up into the bottom of the slide.

The front of the Recoil Guide should appear through the hole at the front of the slide, and the rear should engage with the barrel locking feature.

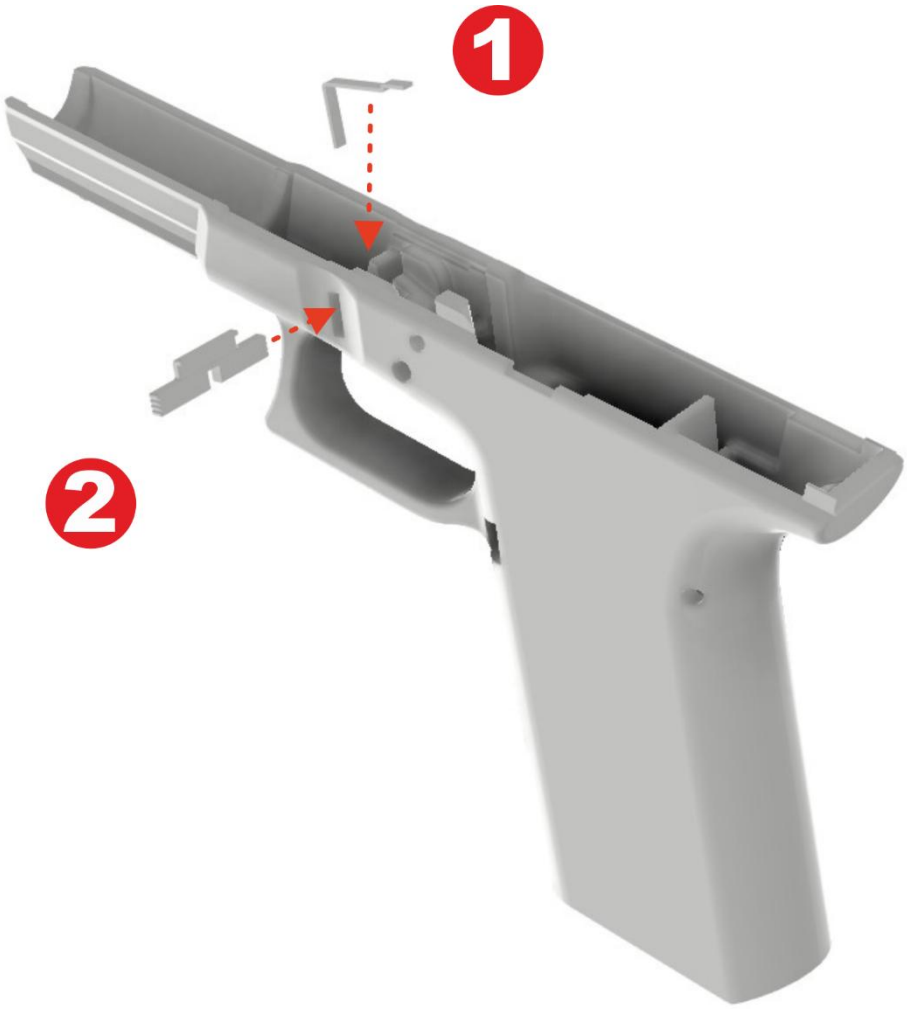
Trigger Sub-Assembly



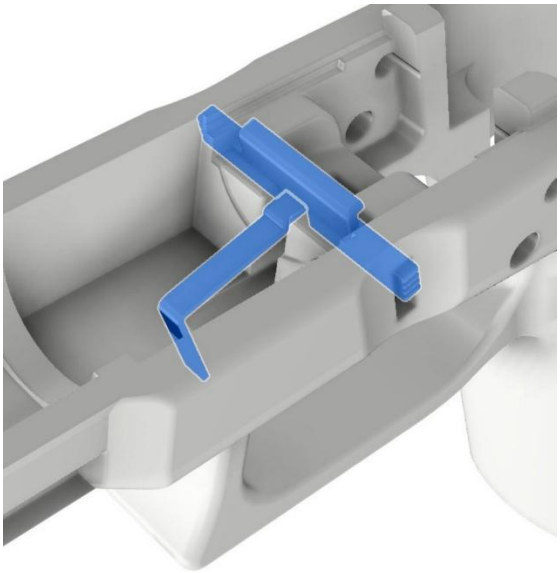
1. Slide the Trigger Safety into the rear of the Trigger.
2. Secure the Trigger Safety into the trigger with a small pin. This is **not supplied** as an STL file as it would be too small, so use a 1mm X 8.5mm piece of resin support or other type of small bar.
3. Now fit the Trigger Bar Pin. This does not hold anything as we do not include the trigger bar in this model.

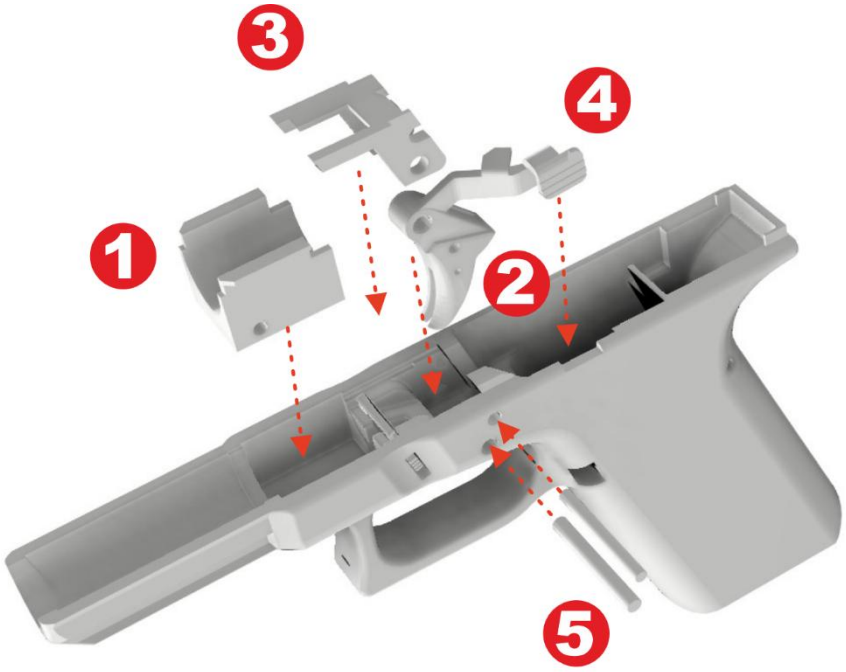
Alternatively use the Trigger Composite part which already contains all these small parts.

Frame Sub-Assembly

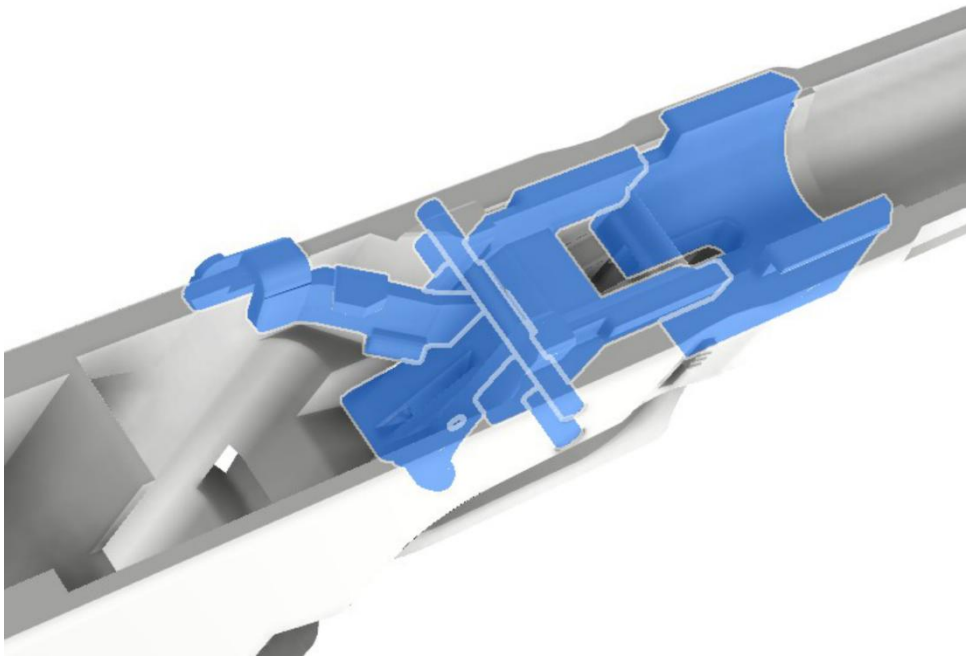


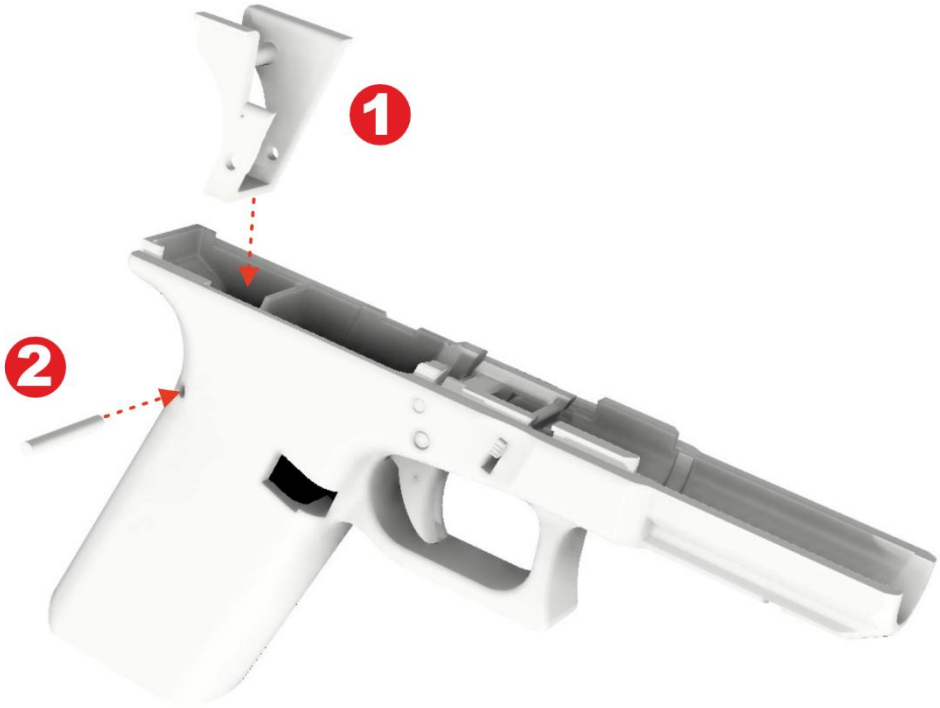
1. Fit the Slide Lock Spring down into the top of the Frame.
2. While holding the Slide Lock Spring down, slide in the Slide Lock through the rectangular slot in the side of the Frame.
   Note that the 'hook' part at the top of the Slide Lock should be facing the rear of the Frame. The Slide Lock Spring should engage in the slot of the Slide Lock to keep it in place.





1. Drop the Front Rail Block into the top of the Frame. This should be glued because the model does not have a pin to lock this in place.
2. Drop the Trigger Sub-Assembly (Or use the Trigger Composite) into the top of the Frame so it fits into the trigger guard.
3. Next, push the Locking Block into the top of the Frame. This should hold down the Front Rail Block and align with the holes in the Frame.
4. Fit the Slide Release lever into place. This is locked in place by the Trigger Pin.
5. Finally, slide in the Trigger Pin which should pass through the hole in the Slide Release, Trigger and the Locking Block. Follow this with the Locking Block Pin which should secure the Locking Block in place.





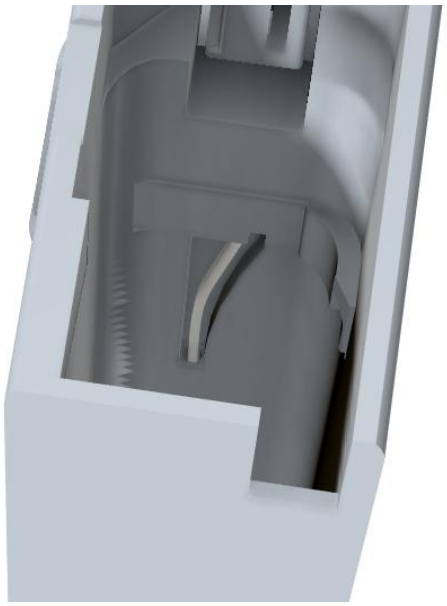
1. Drop the Rear Rail into the rear of the Frame.
2. This is held in place by the Rear Rail Pin

1. Slide the Grip Outer over the grip of the frame. This may hold with friction or may require some glue.
2. Slide the Grip Inner over the front of the frame grip. This should clip into place within the Grip Outer. This may require some glue.

Alternatively use Grip Composite that combines Grip Outer and Grip Inner. Or use the Grip Frame Composite that includes Frame, Grip Outer and Grip Inner all in one part.

Slide the Magazine Release through the side of the Frame.

Although not supplied in this model, you can fit a spring to secure the Magazine Release. A length of spring steel hair clip would do the job. (36mm Length). Depending on how the frame was printed the hole for the spring may not have been rendered correctly due to printing resolution. This spring could be heated and melted into place if the hole is not well defined. Alternatively, leave this out as the Magazine and Magazine Release will all hold in place due to friction.

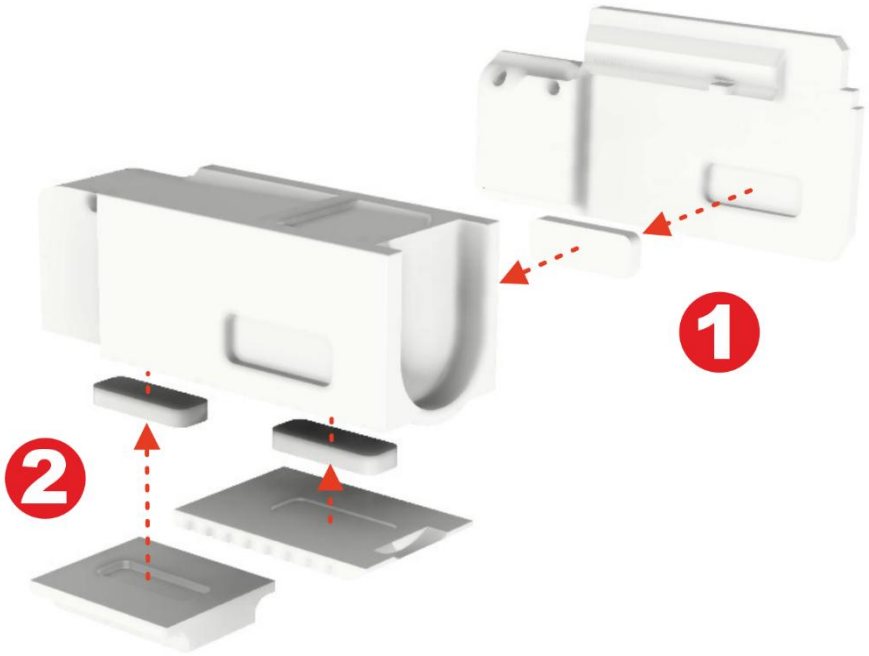


Frame and Slide Assembly

1. Pull the Slide Lock down against the spring.
2. Slide the complete Slide Assembly onto the Frame from the Front. The Slide Lock can now be slid up again to lock the Slide Assembly in place. The Slide Lock should engage with the bottom part of the Barrel to stop the slide from moving forward.

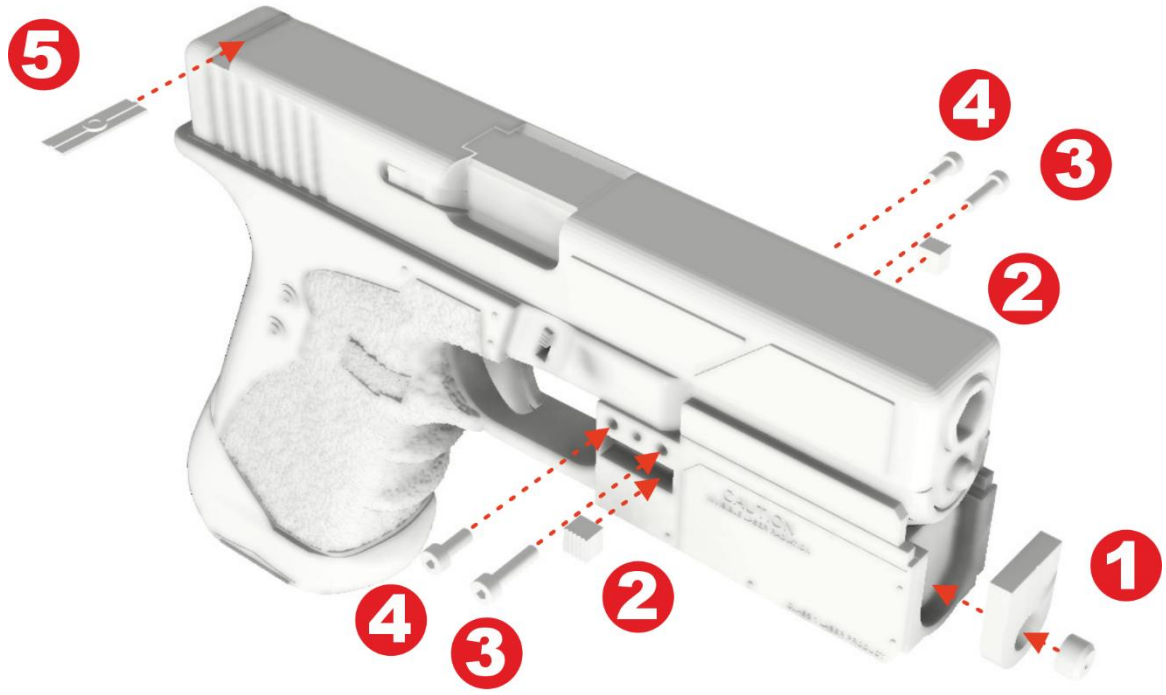
1. Slide the completed Magazine Assembly into the Grip.

Laser Unit Assembly



1. Use Laser Unit Pin to glue Laser Panel Left onto Laser Main Body. (Or use the M3 bolt to hold the side panel on see later step.)
2. Use Laser Unit Pins to glue Laser Heatsink and Laser Batt Cover onto bottom of Laser Main Body.

1. Locate the laser assembly onto the front of the pistol.
   Use a Laser Unit Pin to fit the Laser Panel Right to the Laser Main Body.
   This can be glue or just held in place with M3 bolts on the next step.



1. Glue Laser Lens to Laser Front Panel and glue this assembly into the Laser Main Body.
2. Glue Laser Switch Left and Laser Switch Right to the front of the recess on each side of Laser Panel Left and Laser Panel Right.
3. Fit 2 X M3 x 12mm bolts to Laser Panel left and right. These should screw into Laser Main Body to hold everything together.
4. Fit 2 X M3 x 8mm bolts to Laser Panel left and right. These can later be tightened to help grip the Frame.
5. Slide Rear Sight onto groove at the rear of the Slide.

Gallery

Ghost In The Shell Movie and Prop Images

Rubber Stunt Prop Photo Left

Rubber Stunt Prop Photo Right

Movie Still 1

Movie Still 2

Duplex Designs Model Renders

3D Model Renders Left and Right

Duplex Designs 3D Printed Model Images (COMING SOON)

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