

Duplex Designs' Ghost In The Shell Hanka Pistol

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.

The Hanka mercenaries use this pistol with and without the extending stock. With the stock fitted there is also an extra muzzle break device fitted to the front of the pistol.

This model is multi-part but does not contain any moving parts except for the functioning extending stock.

A number of these prop pistols were sold at auction by PropStore in 2018. The lots included complete pistols with and without the extending stock.

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 weapon. There is conflicting information on what weapon this was based on. There could be a VP70 inside although the slide looks decidedly Glock like. We do like multi-part prints as this enables subtle painting finishes to be applied to each part which adds to the realism.

This model can be built as pistol only or pistol with extending stock and additional muzzle break device.

Project Skill Level Required

You will need a low to medium level of skill in 3D printing and modelling to do justice to this model.

Part tolerances are quite tight 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: Please consider this a static model.

The model also requires some hardware bolts and a spring.

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.

Resin Printer

Not really suitable for the larger parts but smaller parts would benefit from the higher resolution.

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 you may find a lot of sanding and finishing is required for a good fit of parts.

Hardware Required

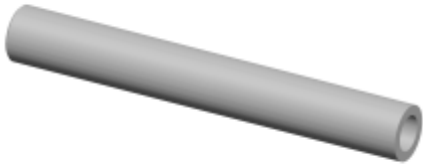
To complete the model to be as close as possible to the prop you will need some hardware.

Stock Catch Spring 	6mm diameter, 15mm length X 1
Muzzle Rear Bolt 	Phillips Countersunk Head M3 x 5mm X 8
Muzzle Base Bolt 	Allen Dome Head M3 x 7mm (Cut or grind 8mm bolt) X 4
Stock Cup Bolt 	Allen Machine Head M4 x 25mm X 1

Parts List

Pistol Common Parts

Following is a list of STL model parts along with notes.



Barrel

Print X 1



Frame

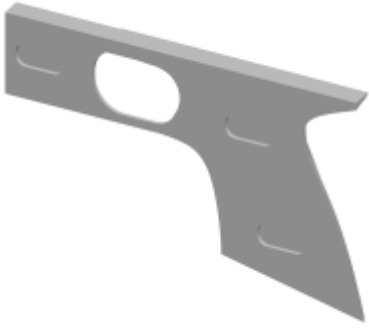
Print X 1



Grip Left

Print horizontally for strength and use 100% infill.

Print X 1



Grip Right

This is an odd addition to the prop so is replicated here.

We assume that the original FES fire select knob could not be removed from the donor MP5.

Print X 1



Inner Slide

Print X 1



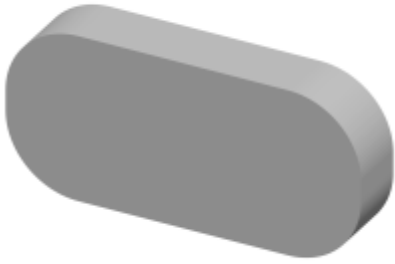
Peg Large

Print X 1



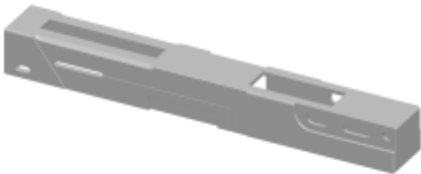
Peg Medium

Print X 1



Peg Small

Print X 7



Slide

Print X 1



Top

Print X 1



Trigger

Print X 1

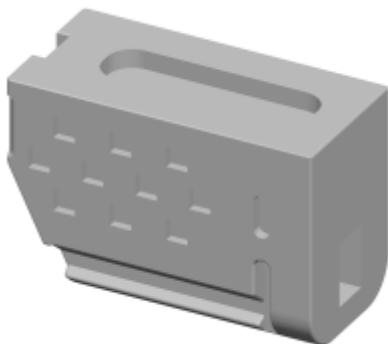
Pistol Without Stock Parts



Butt

Use this part if building the pistol only.

Print X 1

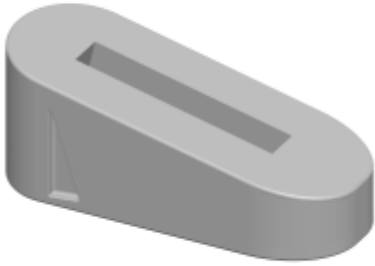


Lower Front

Use this part if building the pistol only.

Print X 1

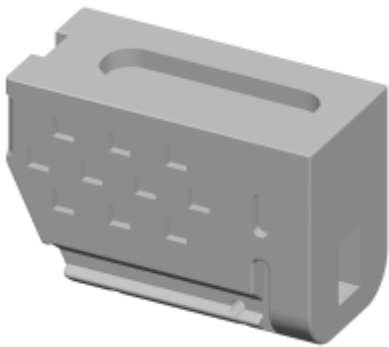
Pistol With Stock Parts



Butt For Stock

Use this part if building the pistol with extending stock. This part contains a hole for the M4 fixing bolt.

Print X 1



Lower Front For Stock

Use this part if building the pistol with extending stock and additional muzzle break.

Print X 1

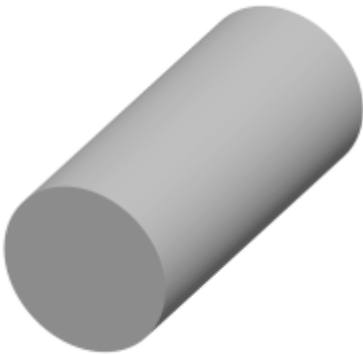
Pistol With Stock, Stock Parts



Stock Bar

Only used if building the pistol with extending stock and additional muzzle break.

Print X 1



Stock Catch Pin

Only used if building the pistol with extending stock and additional muzzle break.

Print horizontally at 100% infill for strength.

Print X 1

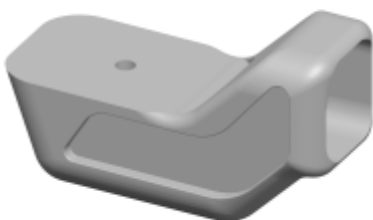


Stock Catch

Only used if building the pistol with extending stock and additional muzzle break.

Print horizontally at 100% infill for strength.

Print X 1



Stock Cup

Only used if building the pistol with extending stock and additional muzzle break.

Print X 1

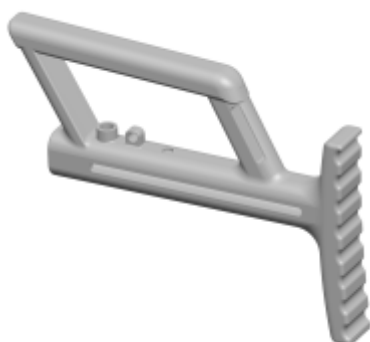


Stock Detent

Only used if building the pistol with extending stock and additional muzzle break.

Print horizontally at 100% infill for strength.

Print X 1

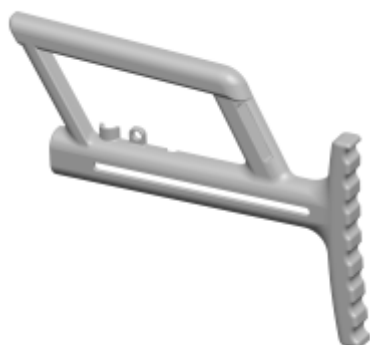


Stock Main

This part is used if you want to print in one piece.

See the following three parts if you wish to split the object.

Print X 1

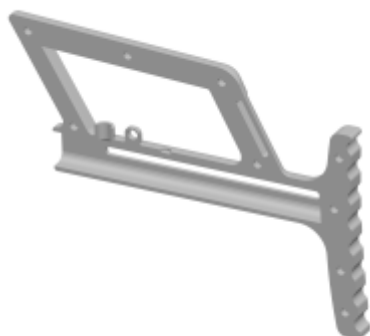


Stock Main Split Left

Use as an alternative to printing Stock Main as one part.

Print split flat to plate and assemble using pegs. This can result in a cleaner part but you will have to deal with the seam line.

Print X 1

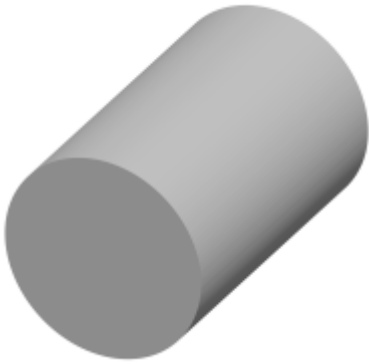


Stock Main Split Right

Use as an alternative to printing Stock Main as one part.

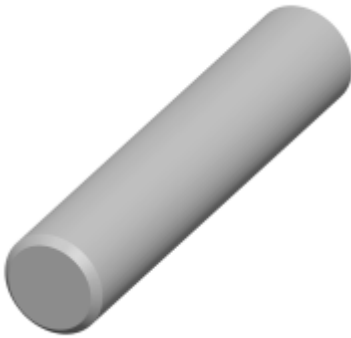
Print split flat to plate and assemble using pegs. This can result in a cleaner part but you will have to deal with the seam line.

Print X 1

**Stock Split Peg**

Use to glue Stock Main Split parts together.

Print X 9

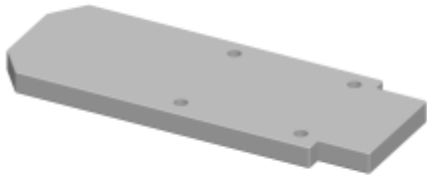
**Stock Pin**

Only used if building the pistol with extending stock and additional muzzle break.

Print horizontally at 100% infill for strength.

Print X 1

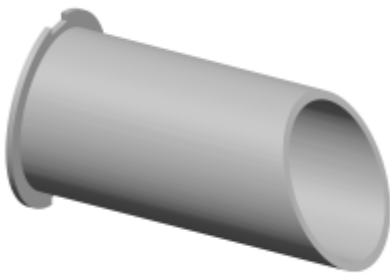
Pistol With Stock, Muzzle Parts



Muzzle Base

Only used if building the pistol with extending stock and additional muzzle break.

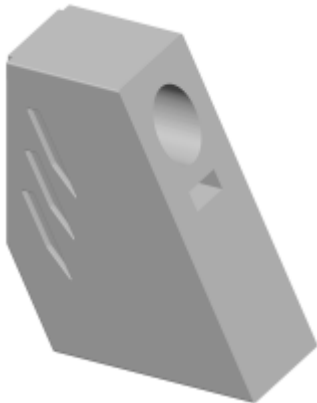
Print X 1



Front Lower Lip Right

Only used if building the pistol with extending stock and additional muzzle break.

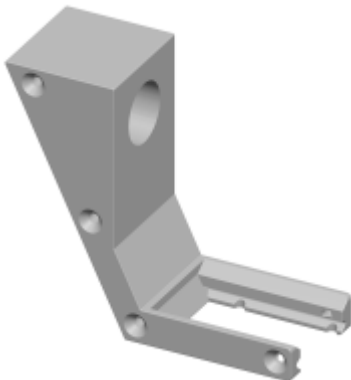
Print X 1



Muzzle Front

Only used if building the pistol with extending stock and additional muzzle break.

Print X 1

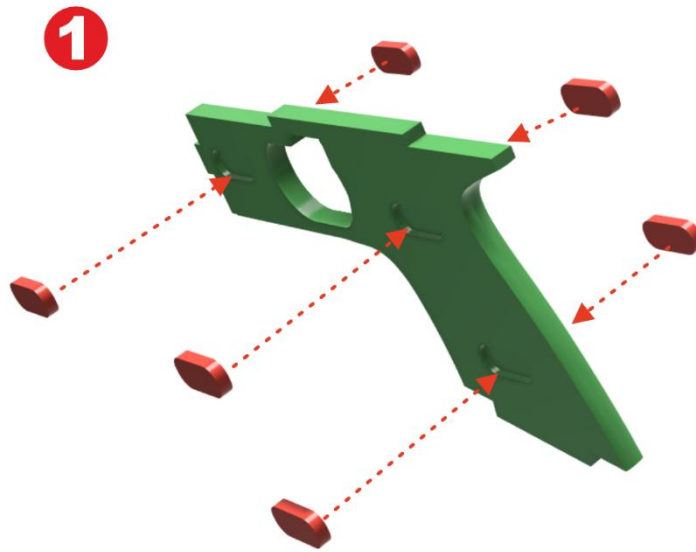


Muzzle Rear

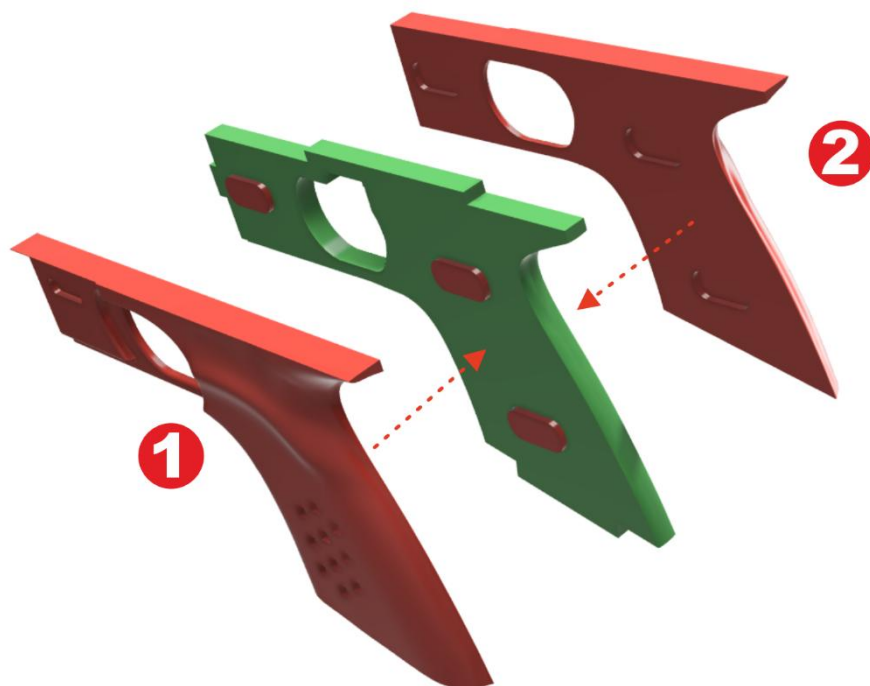
Only used if building the pistol with extending stock and additional muzzle break.

Print X 1

Assembly Sequence



1. Glue 6 X Peg Small to Frame.



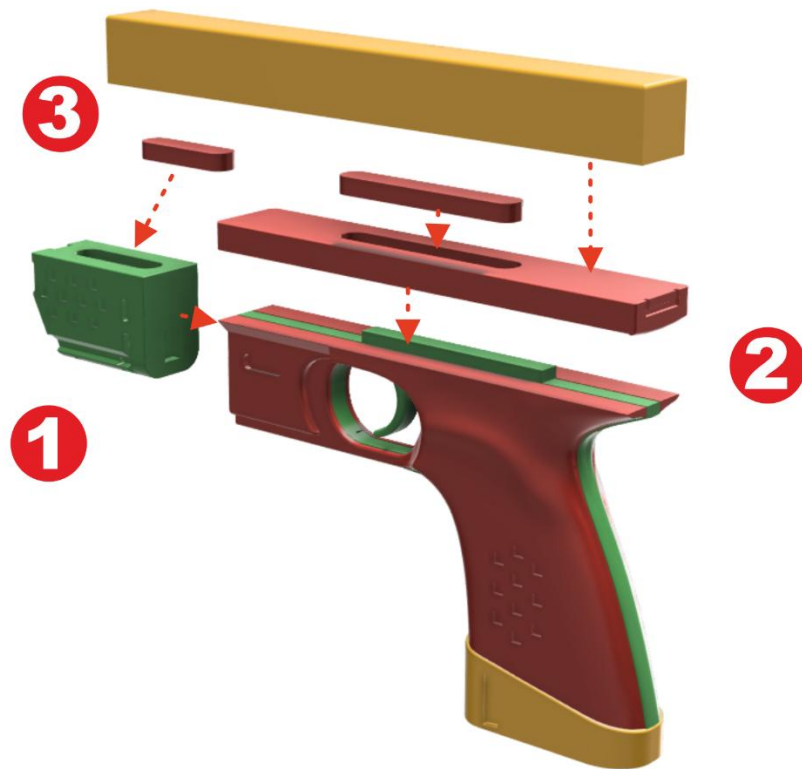
1. Glue Grip Left to Frame.
2. Glue Grip Right to Frane.



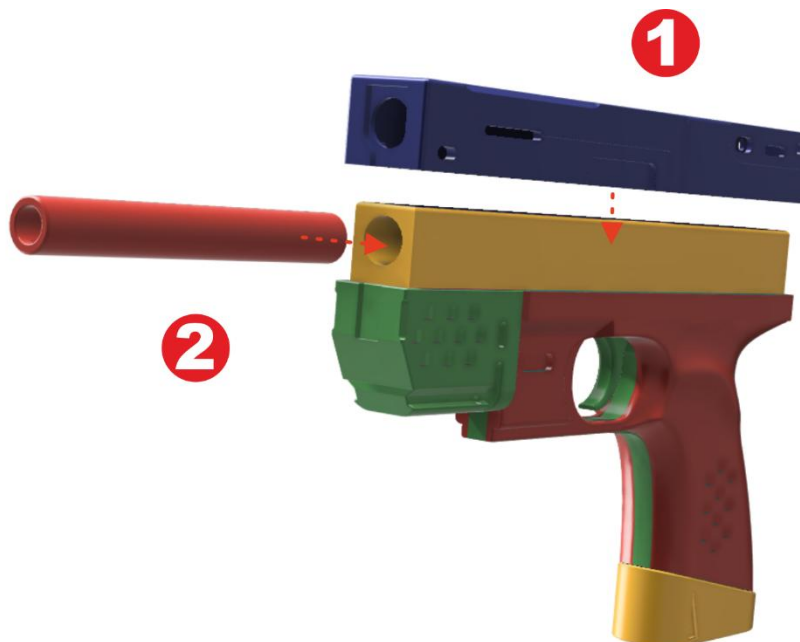
1. Glue Trigger to Frame.



1. Glue Butt to Frame if you are building the pistol only
Use Butt For Stock if you are building pistol with stock as this contains a hole.

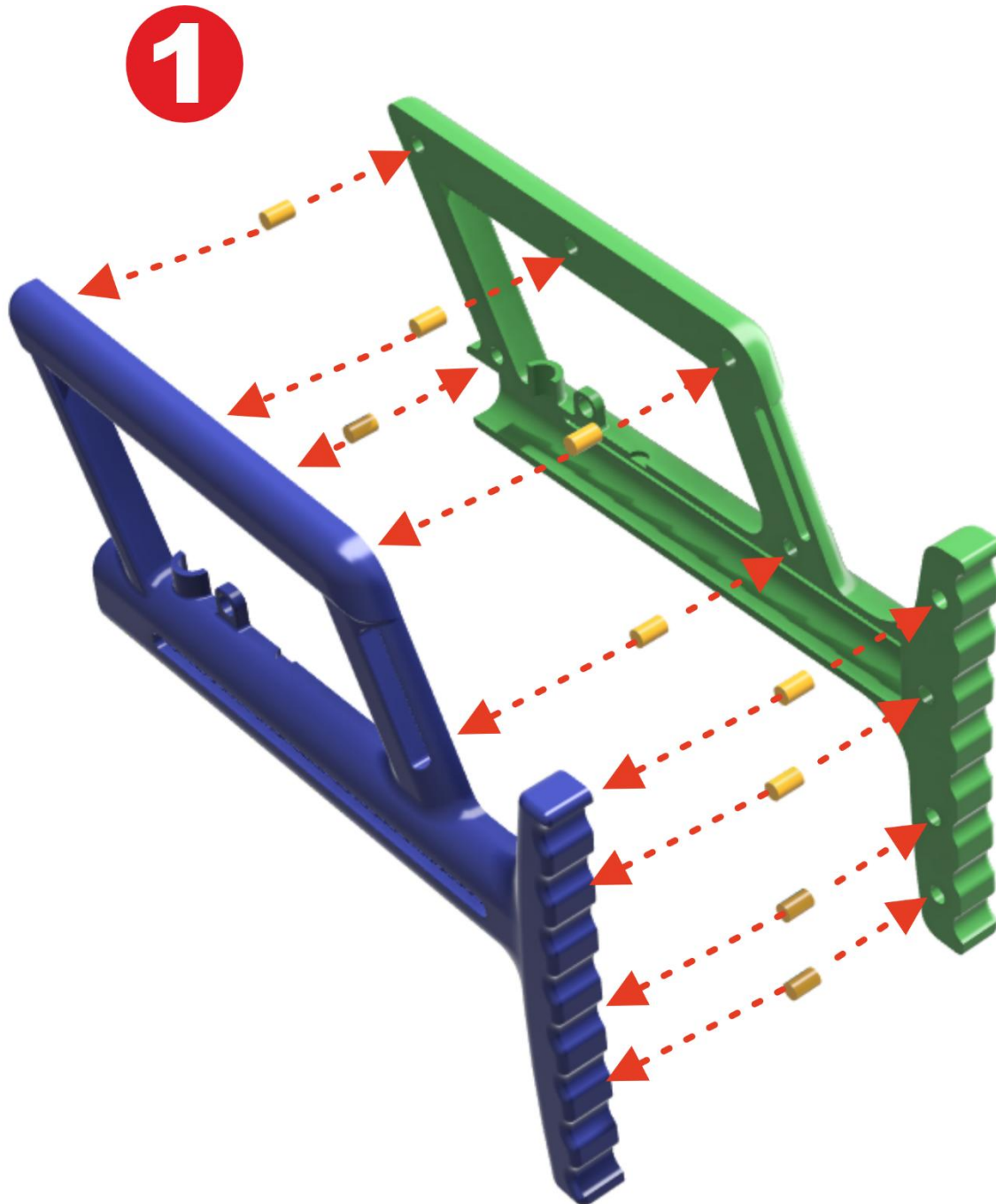


1. Glue Lower Front onto Frame or use Lower Front For Stock if that is your build choice.
2. Glue Top onto Frame.
3. Use Peg Medium and Peg Large to fix Inner Frame to Frame.

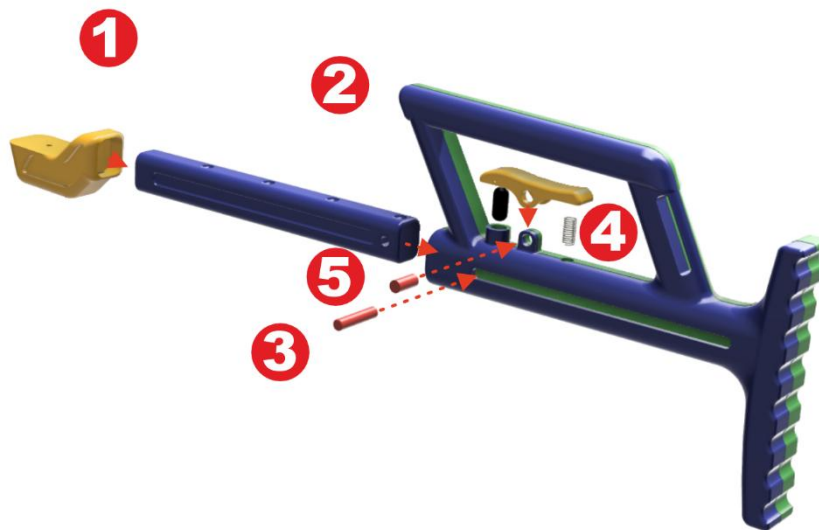


1. Fix Slide over Inner Slide, The Inner Slide allows you to paint the silver highlights visible through the Slide.
2. Fix Barrel into the hole in Inner Slide and Slide.

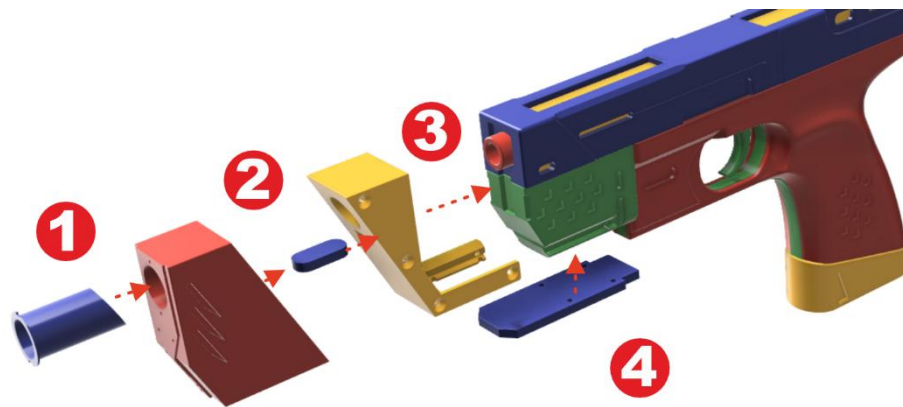
Building Stock and Muzzle Break



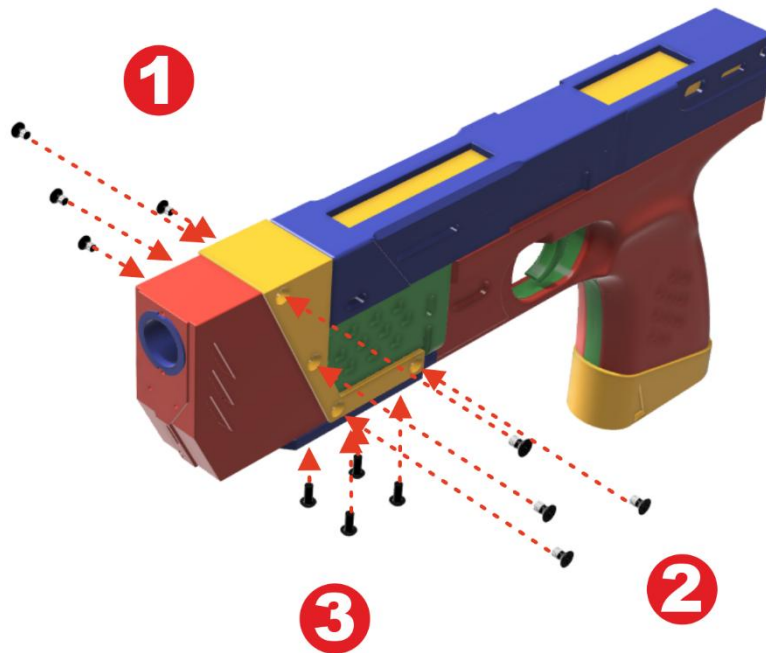
1. If you choose to build the Stock Main from separate parts then assemble using Stock Pegs,



1. Glue Stock Cup to Stock Bar.
2. Slide Stock Bar into Stock Main (This may be a single part or a constructed part).
3. Insert Stock Pin into Stock bar to secure it into Stock Main.
4. Insert Stock Detent into hole in Stock Main and position the spring before lowering Stock Catch.
5. Secure Stock Catch using Stock Catch Pin.



1. If you are building the pistol with stock and muzzle break – Fit Muzzle Front Barrel Insert into Muzzle Front.
2. Fix Muzzle Front to Muzzle Rear using Peg Small.
3. Slide the assembly onto the front of the pistol.
4. Fit Muzzle Base underneath – see next step for screws to fix.



1. Use 4 X cross head countersunk X 5mm screws to the right-hand side of Muzzle Rear.
2. Use 4 X cross head countersunk X 5mm screws to the left-hand side of Muzzle Rear.
3. Use 4 X round head Allen bolts 7mm to secure Muzzle Base to pistol.



1. Fix extending stock assembly to pistol using machine head M4 X 25mm bolt.

Gallery

Ghost In The Shell Movie and Prop Images



Prop Photo Left



Prop Photo Right



Prop Photo With Stock



Movie Still Pistol Only

Duplex Designs Model Renders



Pistol Render Left



Pistol Render Right



Render With Stock

Duplex Designs FDM 3D Printed Model



Pistol Render Left



Pistol Render Right



Render With Stock



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