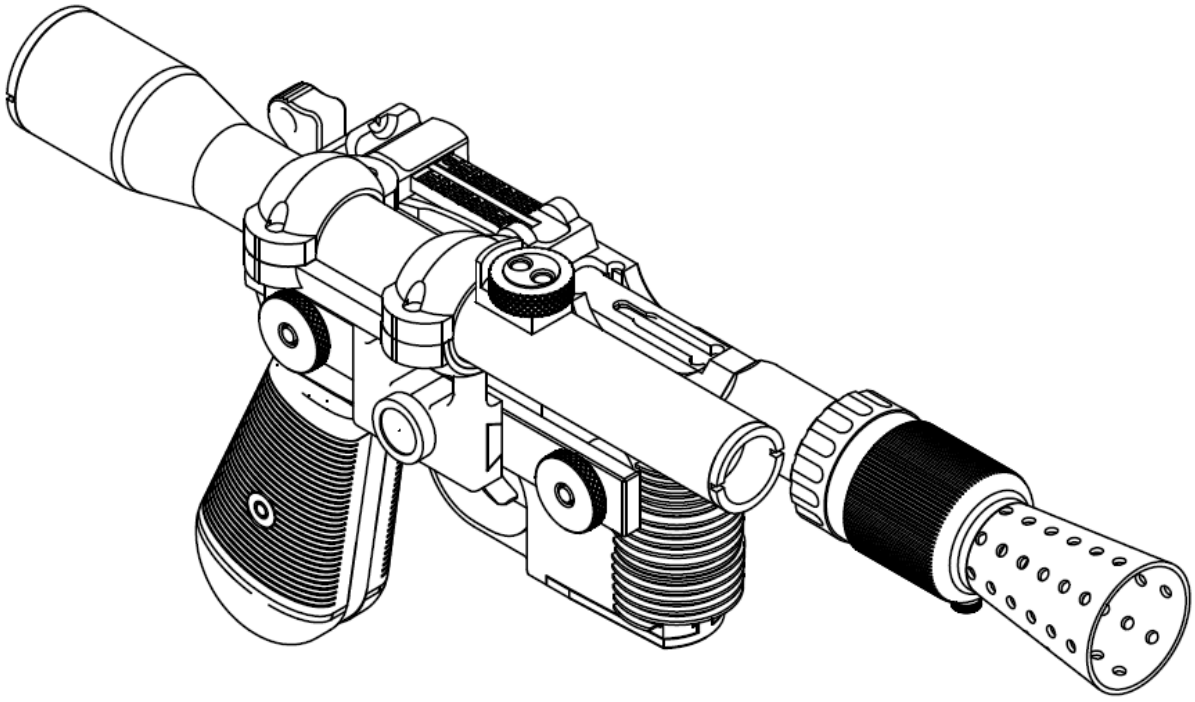
3D Printed
Han Solo's DL-44 Blaster Kit
Visual Assembly Guide

by Ported to Reality



This is a 3D-printable replica of Han Solo's DL-44 Heavy Blaster from Star Wars: A New Hope. Through my extensive research and effort, this is the most accurate 3D-printable DL-44 replica designed for ease of print and fine detail.

Design Process:
The screen-used DL-44 was built using many World War 2 components like the Mauser C96 "Bolo" variant, German Hensoldt & Wetzlar Ziel Dialyth 3x sniper scope, and MG81 aircraft-mounted machine gun flash hider. All of these components are rare and cost thousands of dollars and inaccessible to many of us, so I poured hundreds of hours to capture accurate details on Google, AskMisterScience's extensive guide on Mauser C-96s, and the Replica Prop Forum. Files were designed for maximum printability and fine detail in Autodesk Fusion 360 and have been printed on a friend's Ultimaker 2 printer to ensure ease of print. Most of the parts press-fit together and cleverly designed to be seamless without the use of body filler. Superglue (cyanoacrylate) will ensure that the prop stays in one piece, especially for cosplaying purposes.

Features:
- Accurate replica of Han Solo's DL-44 from Star Wars: A New Hope
- Working trigger
- Designed for ease of printing and painting
- Seamless design – no need for body filler or putty to cover up seam lines!
- Interior space for electronics

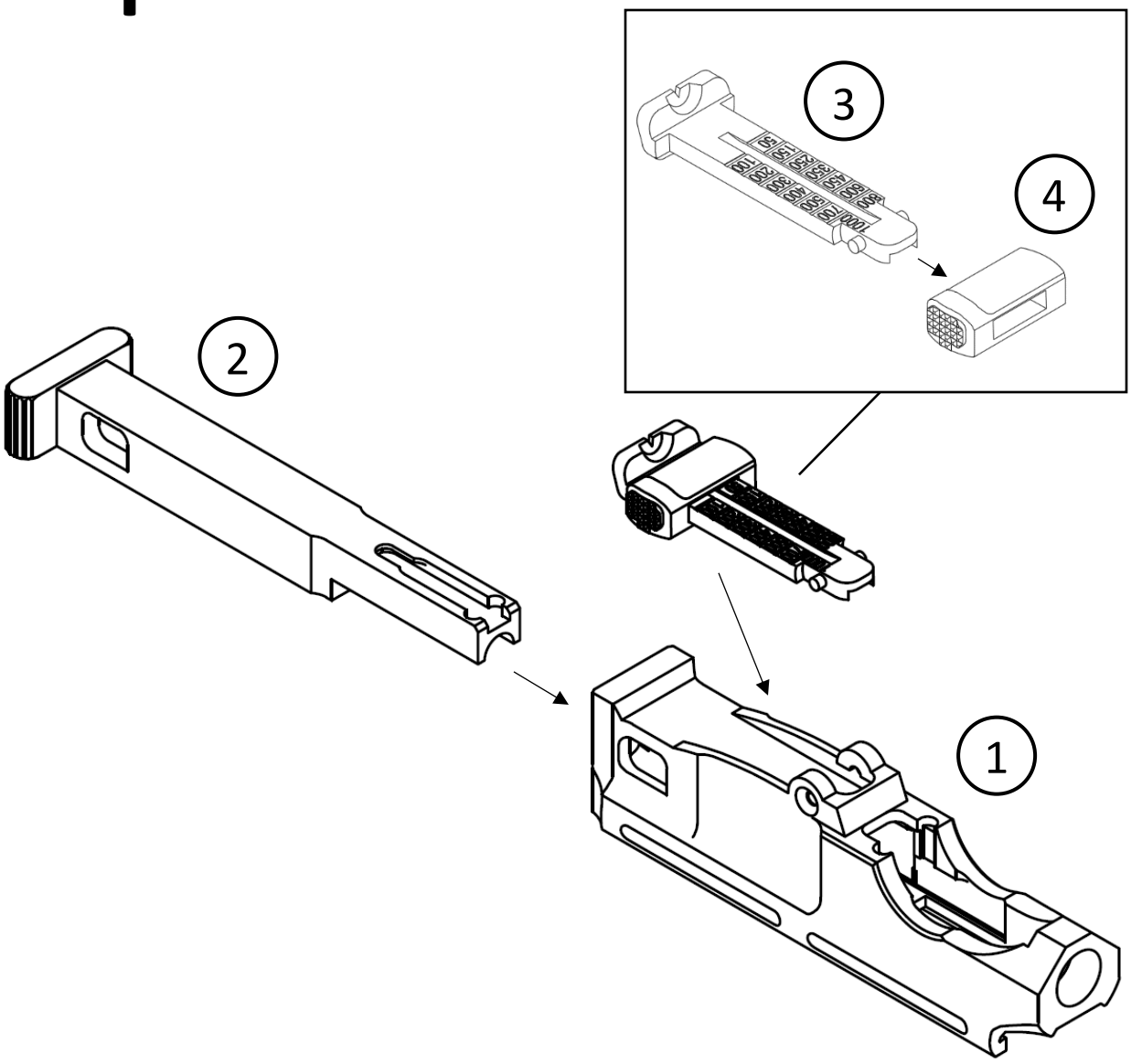
Print Settings:
I printed these files on a friend's Ultimaker 2. Parts were printed at:
- default speed of 60 mm/s
- 205C hotend temperature
- 60C heatbed temperature
- Hatchbox PLA Black.

In the assembly guide, I list temperatures and support (Y/N) too. Files are already oriented correctly, so adding support material is simple, especially in slicing software Simplify3D.

Additional Notes:

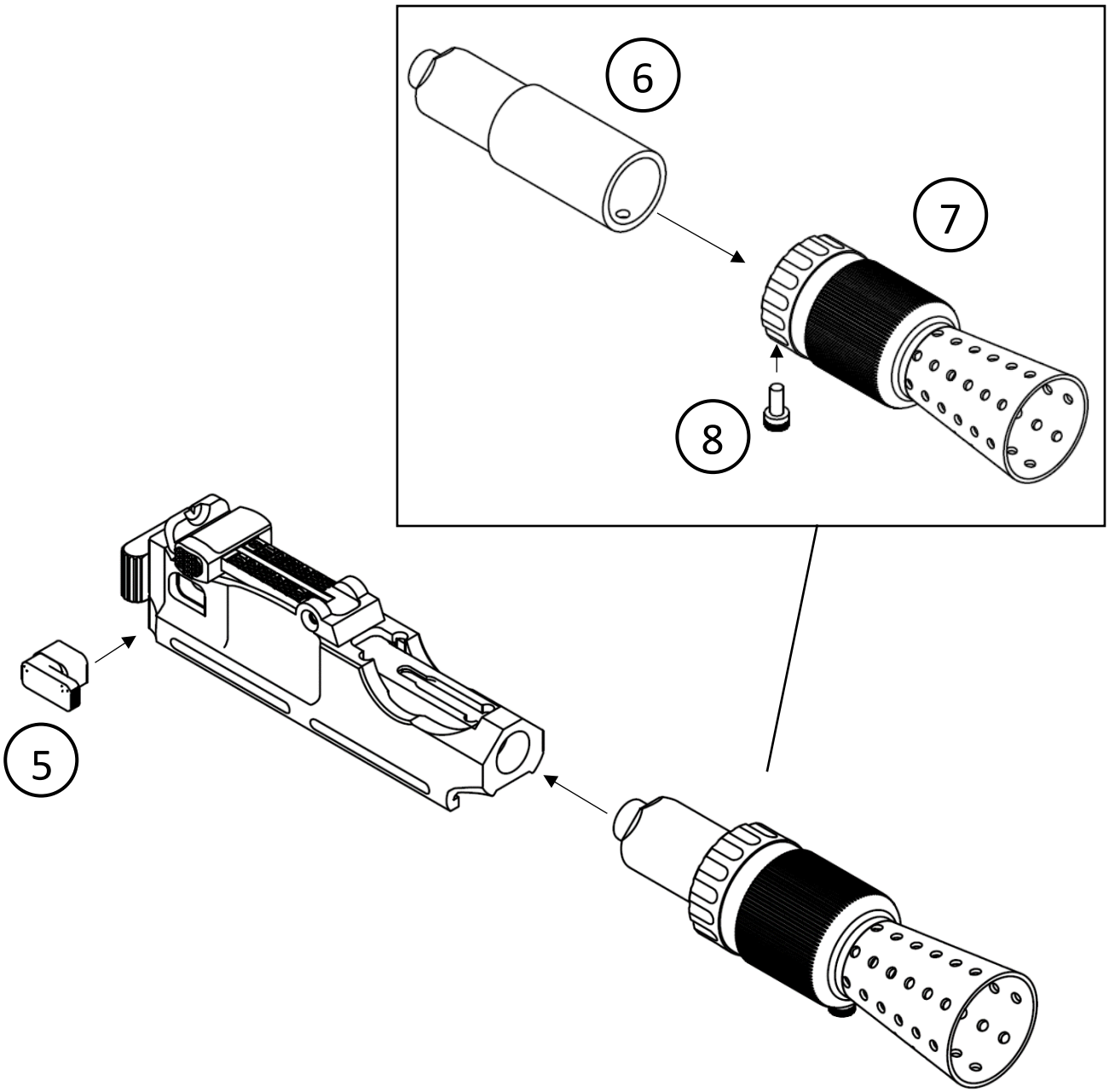
Note: Above is a rare photo of the actual screen-used Han Solo's blaster.
Below is the 3D-printed design.

Step 1.



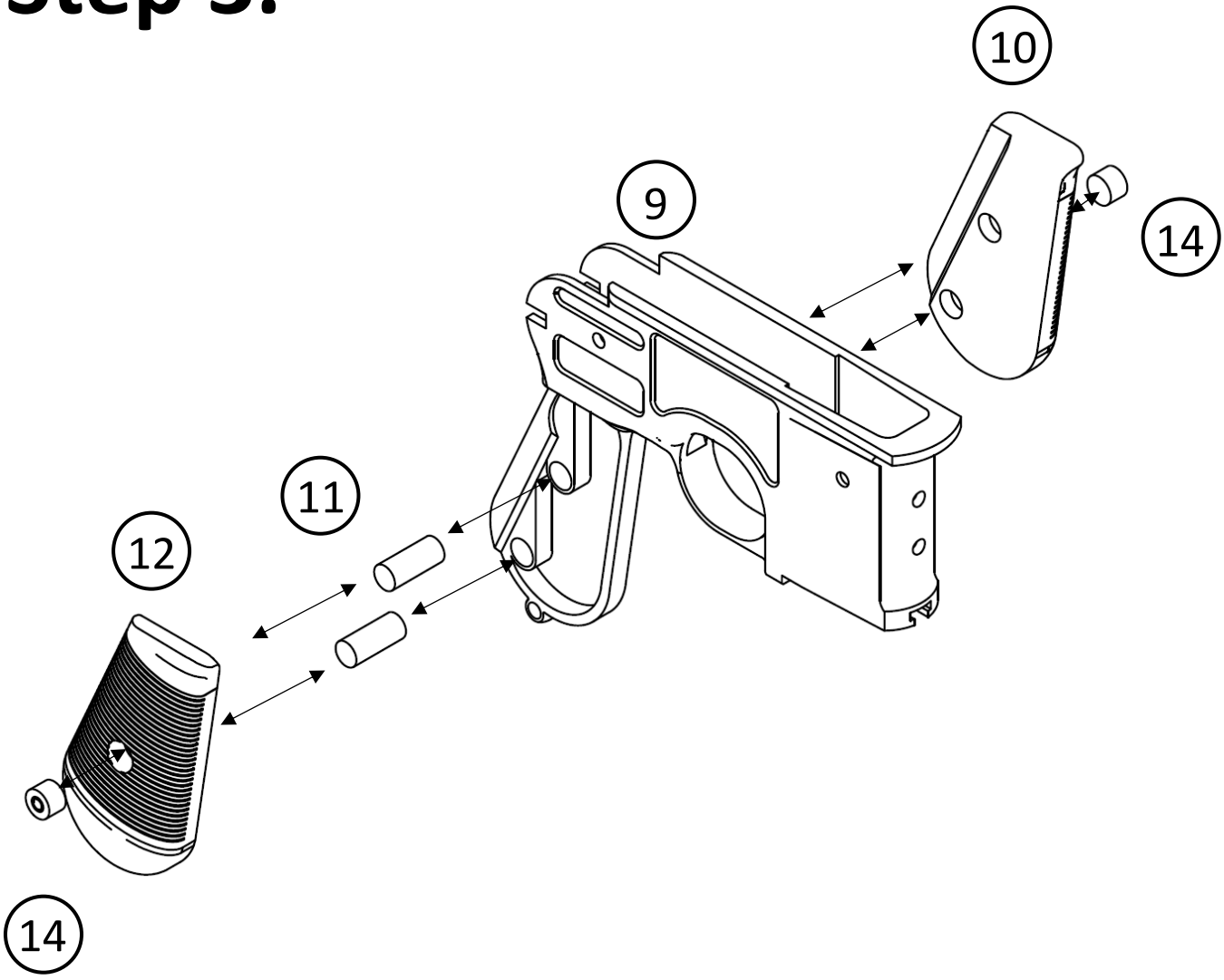
Part No.	Name	Quantity	Support	Color	Speed	Resolution	Time
1	Barrel	1	Yes	Black	Normal	0.1 mm	07:24
2	Bolt	1	No	Black	Normal	0.1 mm	05:10
3	Sight_Leaf	1	No	Black	Normal	0.1 mm	01:57
4	Sight_Knob	1	No	Black	Normal	0.1 mm	00:25

Step 2.



Part No.	Name	Quantity	Support	Color	Speed	Resolution	Time
5	Bolt_Stop	1	No	Black	Normal	0.1 mm	00:21
6	Flashhider_Adapter	1	No	Black	Normal	0.1 mm	03:32
7	Flashhider	1	No	Silver	Normal	0.1 mm	04:57
8	Flashhider_Setscrew	1	No	Black	Slow	0.1 mm	00:10

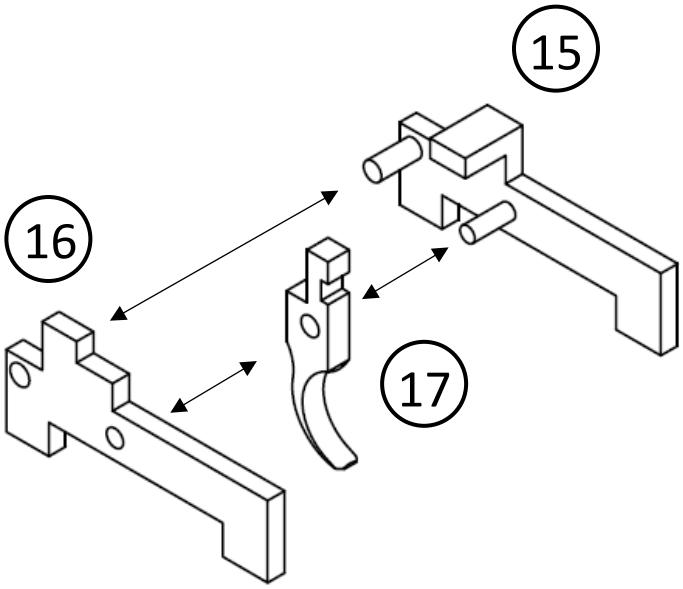
Step 3.



Note: There is no Part 13.

Part No.	Name	Quantity	Support	Color	Speed	Resolution	Time
9	Receiver	1	Yes	Black	Normal	0.1 mm	16:18
10	Grip_Left	1	Yes	Wood Brown	Normal	0.1 mm	02:45
11	Grip_Pin	2	No	Any	Normal	0.2 mm	00:20
12	Grip_Right	1	Yes	Wood Brown	Normal	0.1 mm	02:45
14	Grip_Detail	2	No	Brass/Gold	Normal	0.1 mm	00:10

Step 4.

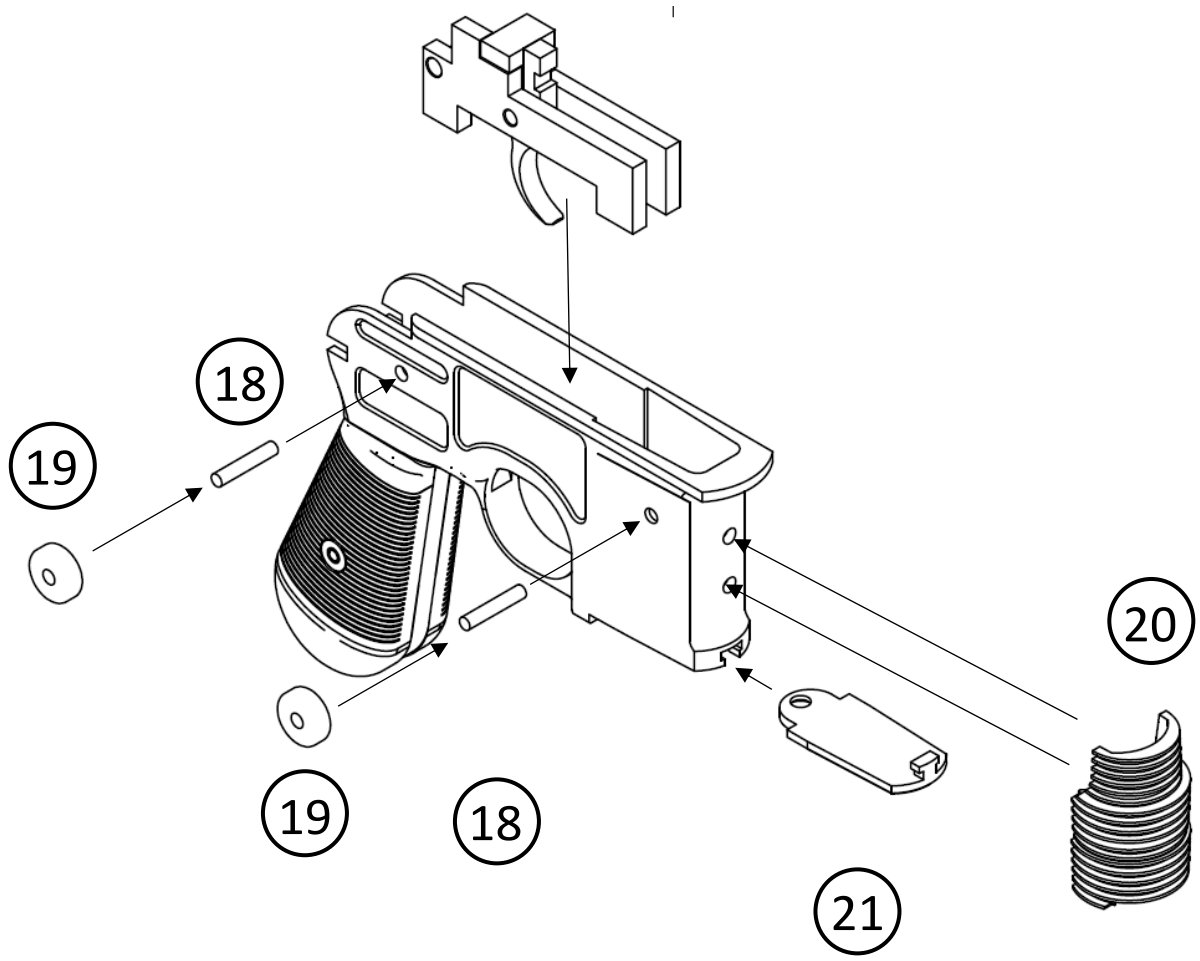


Note:

The rubber band can be twisted around the “pillar” of Part 15 and “arm” of Part 17.

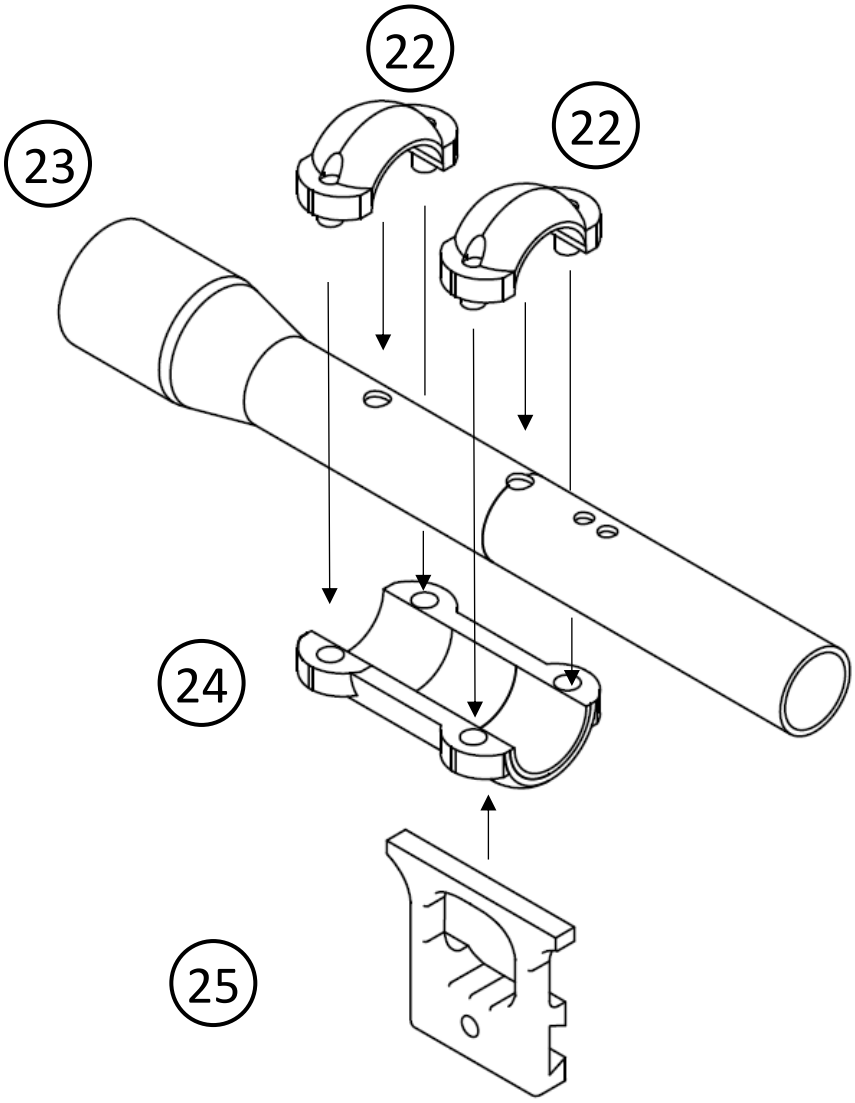
Part No.	Name	Quantity	Sup port	Color	Speed	Resolution	Time
15	Trigger_MechanismA	1	No	Any	Normal	0.2 mm	01:12
16	Trigger_MechanismB	1	No	Any	Normal	0.2 mm	00:45
17	Trigger	1	No	Black	Normal	0.1 mm	00:19

Step 5.



Part No.	Name	Quantity	Sup port	Color	Speed	Resolution	Time
18	Crossbar_Pin	2	No	Black	Normal	0.2 mm	00:05
19	Crossbar_Spacer	2	No	Black	Normal	0.2 mm	00:15
20	Grill	1	Yes	Black	Normal	0.1 mm	02:37
21	Magazine_Floorplate	1	No	Black	Normal	0.1 mm	02:26

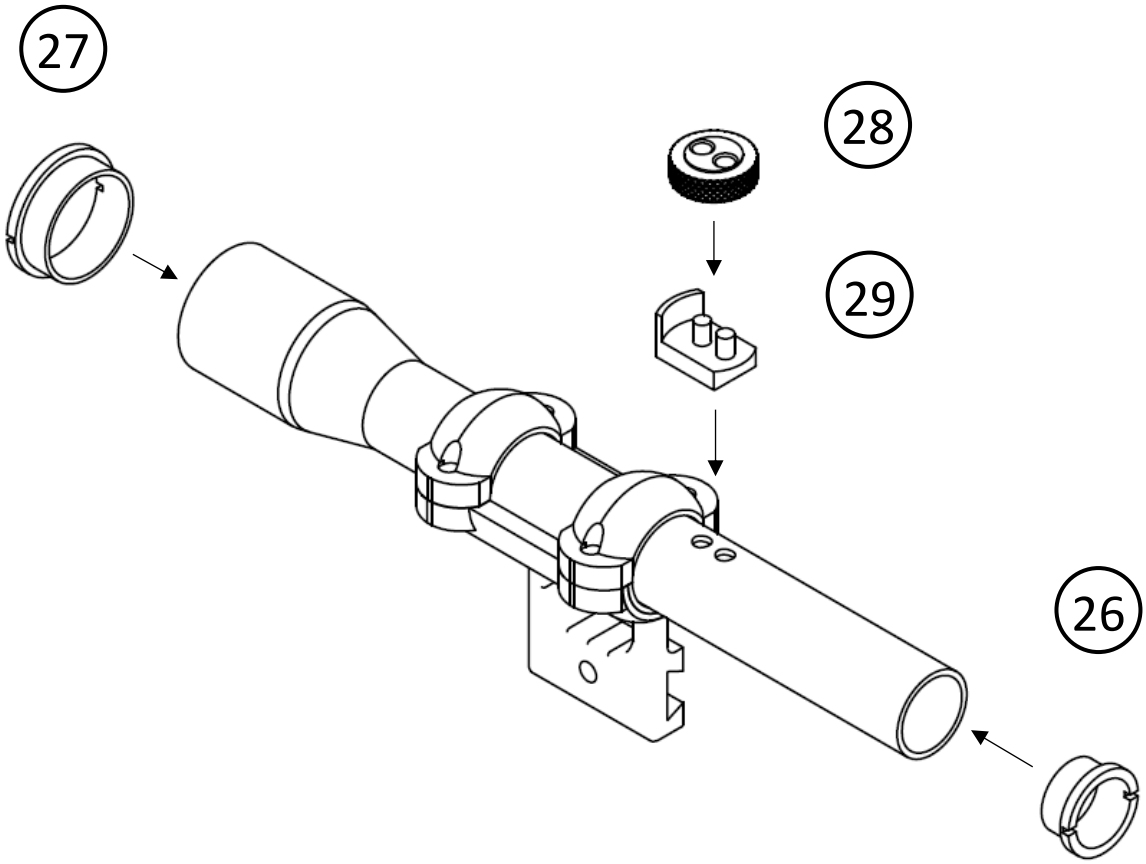
Step 6.



Note: Superglue is recommended secure fit between Part 24 and Part 25.

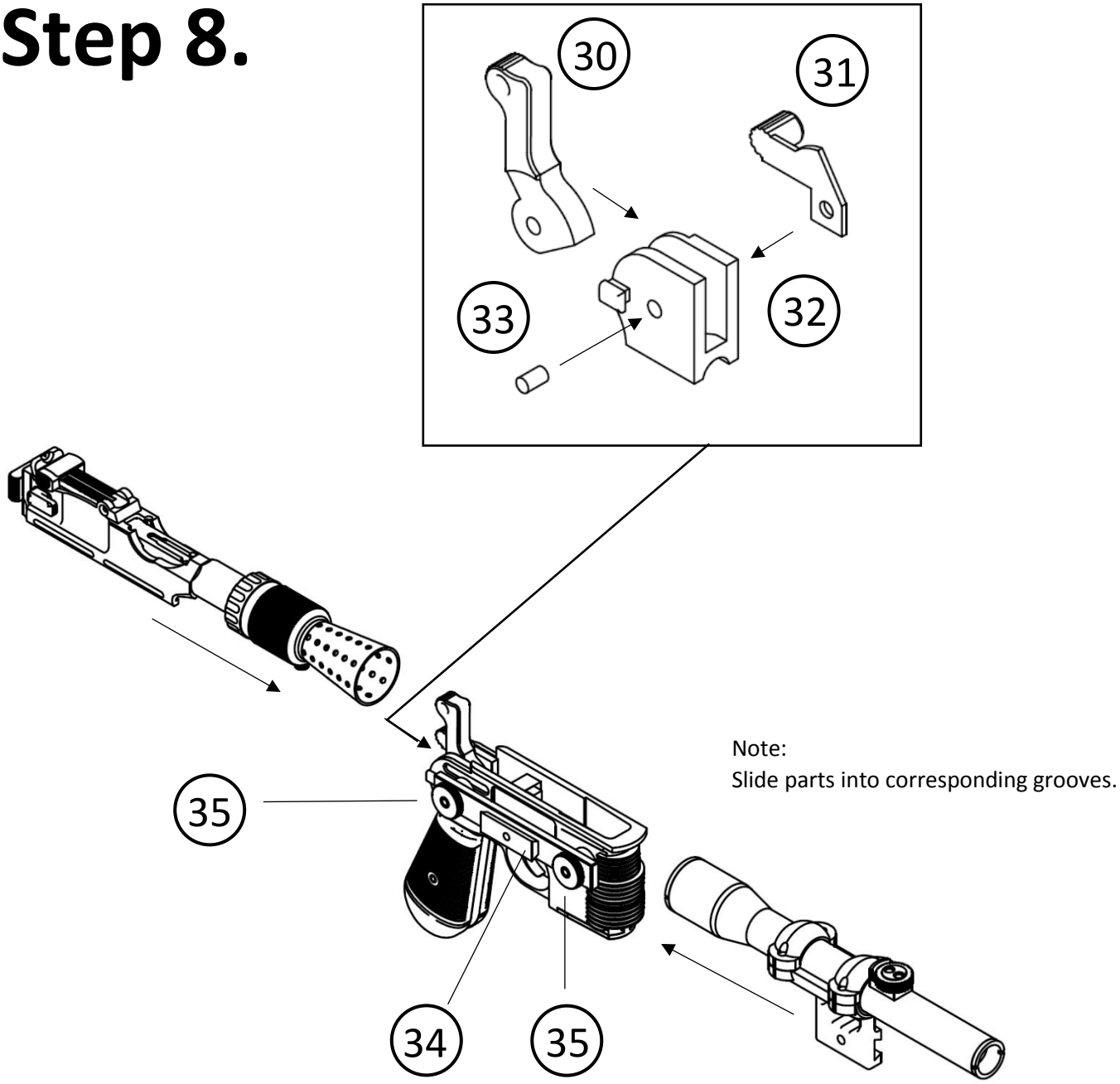
Part No.	Name	Quantity	Sup port	Color	Speed	Resolution	Time
22	Scope_Clip	2	Yes	Black	Normal	0.1 mm	00:51
23	Scope	1	No	Black	Normal	0.15 mm	06:10
24	Scope_Mount	1	No	Black	Normal	0.1 mm	02:45
25	Scope_Frame	1	No	Black	Normal	0.1 mm	01:09

Step 7.



Part No.	Name	Quantity	Support	Color	Speed	Resolution	Time
26	Scope_Lens_Front	1	No	Brass	Normal	0.1 mm	00:25
27	Scope_Lens_Rear	1	No	Brass	Normal	0.1 mm	00:28
28	Scope_Windage_Knob	1	No	Brass	Normal	0.1 mm	00:18
29	Scope_Windage_Mount	1	Yes	Brass	Normal	0.1 mm	00:33

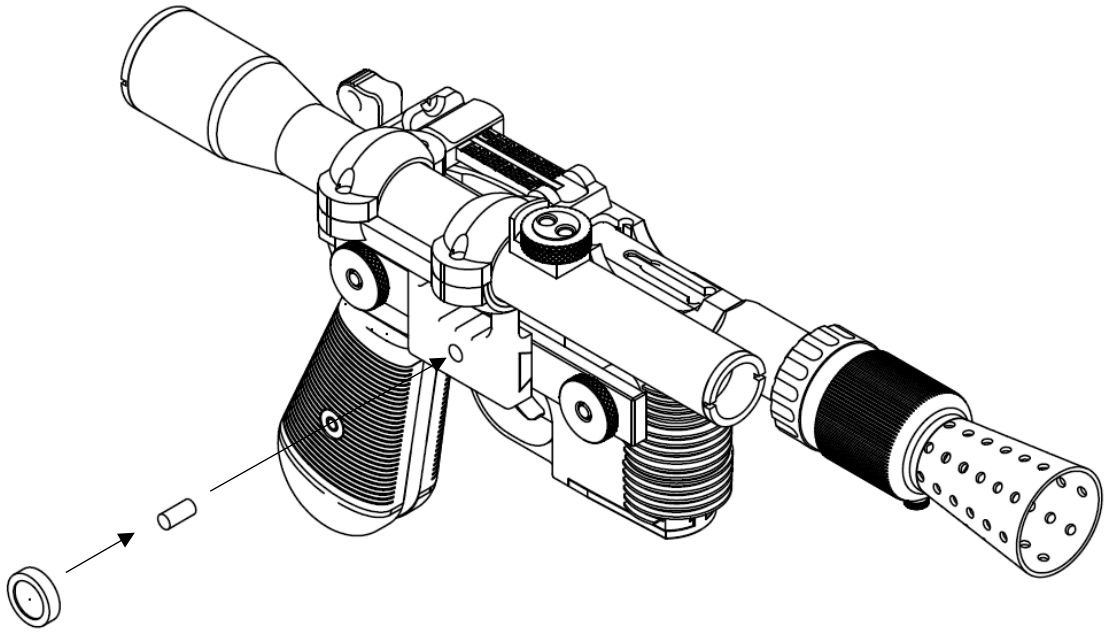
Step 8.



Note:
Slide parts into corresponding grooves.

Part No.	Name	Quantity	Support	Color	Speed	Resolution	Time
30	Hammer	1	No	Black	Normal	0.1 mm	02:16
31	Safety	1	No	Black	Normal	0.1 mm	00:31
32	Hammer_Mechanism	1	No	Black	Normal	0.1 mm	01:36
33	Hammer_Pin	1	No	Black	Normal	0.1 mm	00:05
34	Crossbar	1	No	Black	Normal	0.2 mm	01:14
35	Thumbnut	2	No	Black	Normal	0.1 mm	00:15

Step 9.



Part No.	Name	Quantity	Support	Color	Speed	Resolution	Time
36	Thumbnut_Middle	1	No	Black	Normal	0.1 mm	00:15
37	Thumbnut_Pin	1	No	Black	Normal	0.1 mm	00:05

Finish