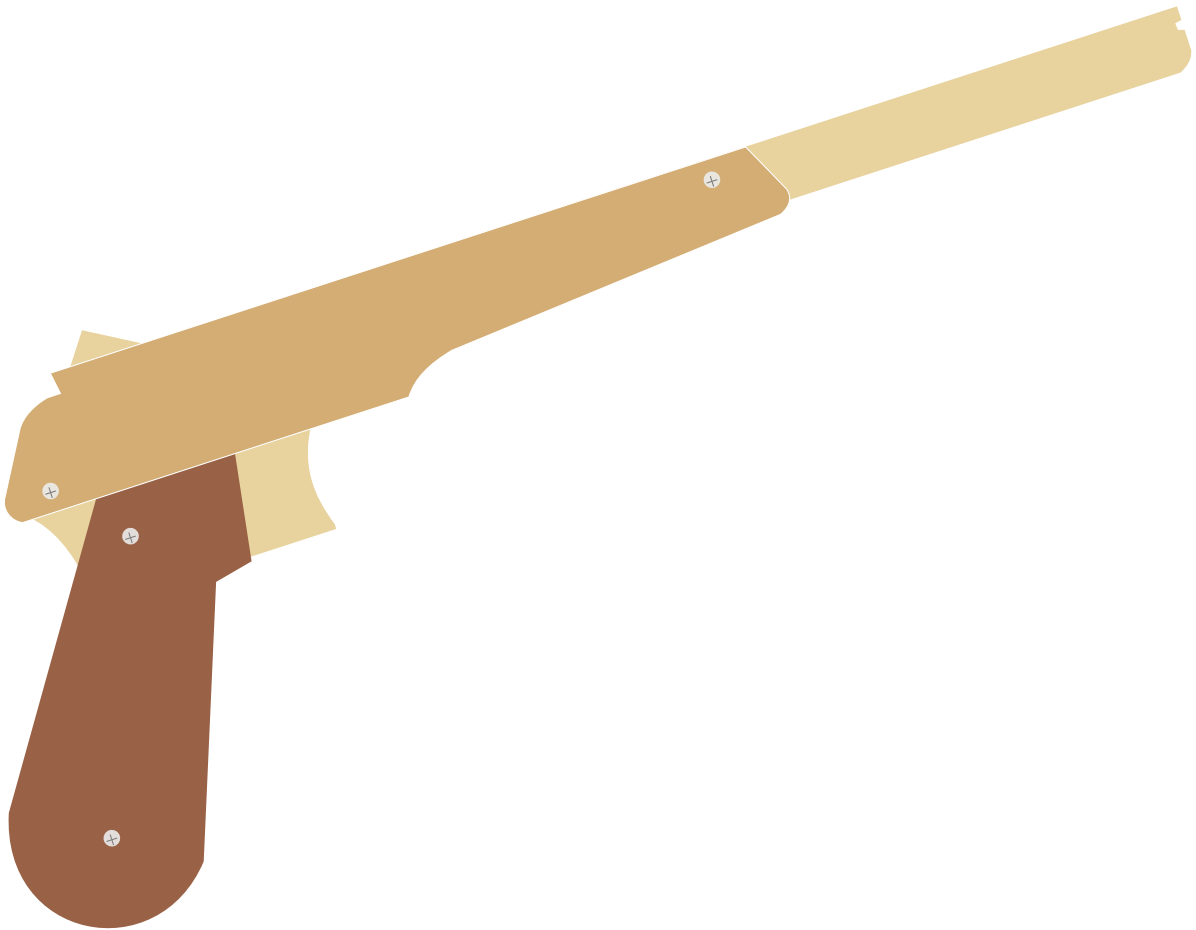


Building Guide for the P210 ESFESTA

Single shot Rubber Band Gun

For Scroll Saw



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P001 TIETONGUE, P002 TRIALONE, P003 TOSAKAR, P101 SUB MACHINEGUN, P102 BRITISH, P103 SATTO,
P201 KAI, P201 AIOH, P201 SQUARE, P202 SLIM, P202 MP, P203 TANDEM BARREL, P204 BURST, P205 ICE-
PICK, P206 TIETONGUE II, P207 DANMAC, P208 SLIT, P209 BULLPUP, P209 FRONTIA, P210 CHIEMI SPECIAL,
P210 ESFESTA, P210 KOKA-VERSION, P211 TANDEM BARREL II, P212 PULL-AUTO, P213 SQUARE II, P214
MODOTCHAO, P215 SHAQUERINE, P216 AUTORETTO, P301 ARC, P302 ARC II, P303 GIZA66°, P304 REVERSS,
P305 TSUN-TSUN, P306 OTTAMAGETAR, P307 DARC, P308 KIRETT, P309 SLARIE, P310 BREADKNIFE, P311
SUESUM, P312 UPPL, P401 VUI, P402 XROSOVER, P403 KUMON, P404 ELBOW, P501 LAYER, P502 ITOOKACY,
P503 DOTDEL, P504 MA:KUN, P601 MULTY, P602 NASBIE, P603 TOMALIANSE, P604 KACHITTO,
P605 FUDOH, P606 SASUKE, P607 B-ARM, P608 MOOGUL, P701 CLIPPI.

Building Guide for the P210 ESFESTA, Single shot Rubber Band Gun
(for Scroll Saw)

	page	print size
Introduction - - - - -	3	A4
Names of parts - - - - -	4	A4
Materials - - - - -	5	A4
Tools - - - - -	6	A4
Templates for cutting - - - - -	7 ~ 8	A4
Assembling - - - - -	9 ~ 10	A4
How to shoot - - - - -	11	A4
1/1 scale drawing (for A4) - - - - -	12	A4
80% scale drawing (for A4) - - - - -	13	A4
1/1 scale drawing (for A3) - - - - -	14	A3

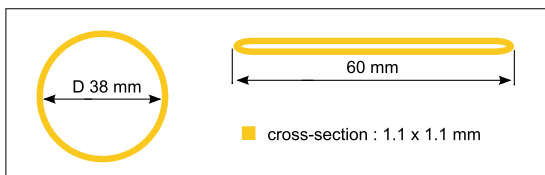
*For users who have an A3 printer

This document provides instructions for building the "P210 ESFESTA, Single shot Rubber Band Gun" using a scroll saw.

Note -

1. You will require access to a printer (A4 (8.3 x 11.7 in) printable) and a scroll Saw for this project.
2. No refund can be provided after purchase, due to the digital distribution of this document.
3. This gun is designed for "No.16 rubber band" defined in Japanese Industrial Standards (JIS).
Maybe you can not get the true Japanese No.16 rubber bands ...
If so, use this diagram to source a similar rubber band in your location.

reference: No.16 rubber band specification in JIS



4. Please source and prepare the necessary materials yourself. I cannot provide materials or a kit. I solely offer plans for purchase.
5. Due to variation in individual skill, I offer no warranty for the result of your work.
Build and/or use this Rubber Band Gun at your own risk.
6. Build and use at your own risk. I do not assume any liability for injury or damage incurred.
7. Copyright <http://oggcraft.jp/>. All Rights Reserved.
You are allowed to use this document for personal hobby use only.
You are prohibited to sell the kit, finished product, or the plan that you have built on the basis of this document.

Steps for building -

- Step 1. Print the templates out on an A4 paper sheets.
- Step 2. Adhere them to each wood.
- Step 3. Following the line, cut them out using a scroll saw.
- Step 4. Assemble them.

About the P210 ESFESTA -

In 2006, I made the P210 ESFESTA and posted an article on the web.
It has a single shot Hand Gun with a "Ramp-Release-system".

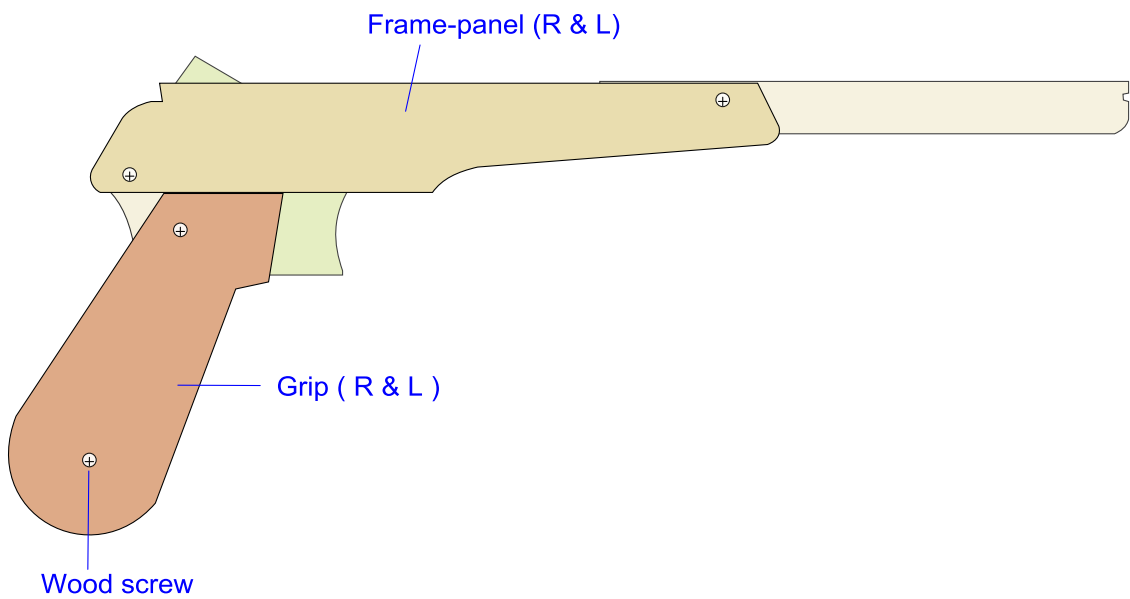
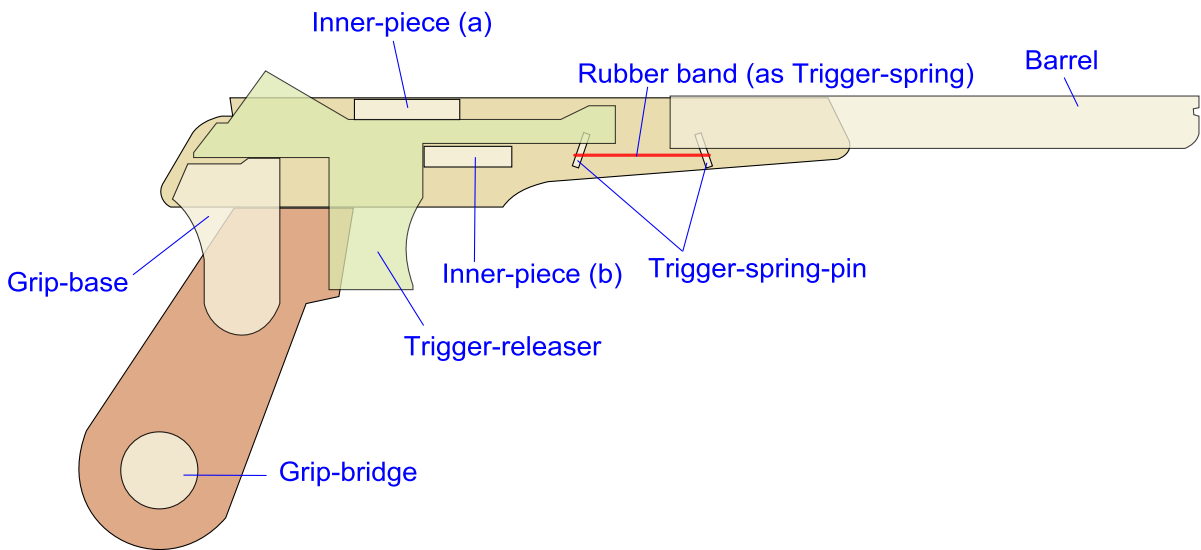
- The article -

<English site> http://oggcraft.jp/eng/eng_howto_esfesta.html

<Japanese site> http://oggcraft.jp/howto_esfesta.html

- The first ESFESTA in 2006 -





Necessary materials

Names of parts	Material
Barrel Trigger-releaser Inner-pieces Grip-base Grip-bridge	Plywood ----- thickness 5 ~ 10 mm
Frame-panels	Wooden board ----- thickness 3 mm
Grips	Your choice of ----- thickness 5 ~ 7 mm wood
Trigger-spring-pins	Wooden round stick ----- diameter 2 ~ 2.5 mm
etc.	Wood screw x 4 Rubber Band

Necessary tools.

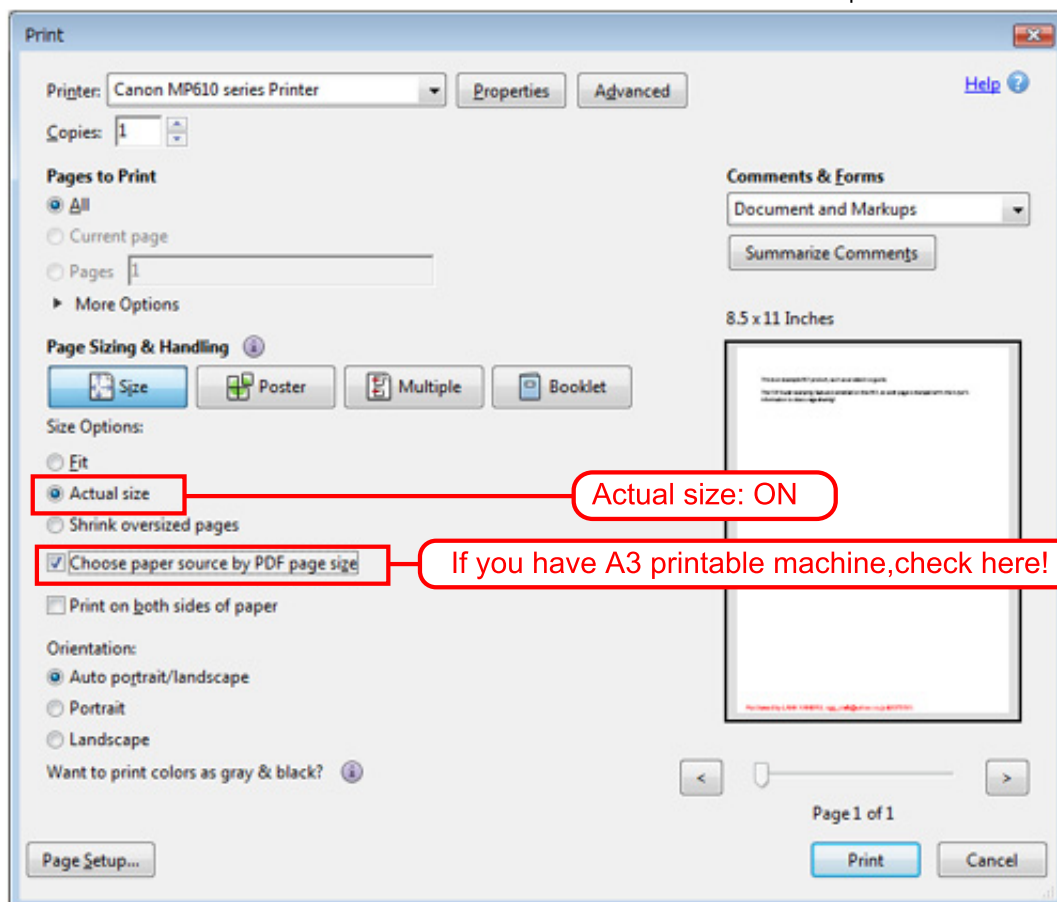
- **Printer** (A4 (8.3 x 11.7 in) printable)
- **Scroll saw machine**
- Drill press (or Pin vice)
- Screw driver
- Scissors
- Craft knife
- Sandpaper
- Wood glue
- Temporary spray adhesive (Removable glue)
- Removable double sided tape

Especially, **Printer** and **Scroll saw machine** are indispensable.

Note -

If you can not print this PDF file at a 1:1 scale, you need to set up the configuration of your PDF Reader.

example: Adobe Reader X



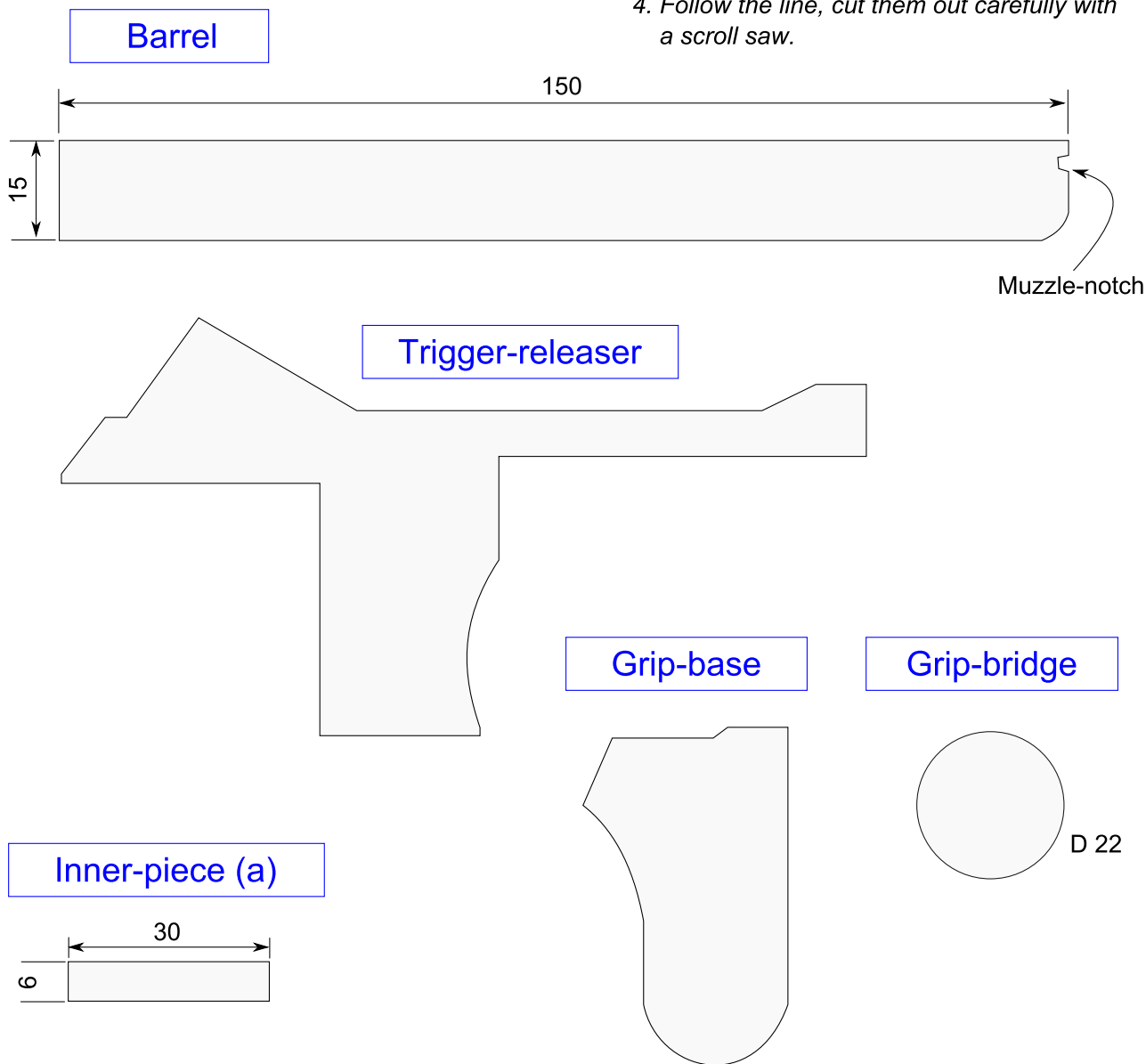
Templates for cutting (actual size)

P7

Material: Plywood 9 ~ 10 mm thickness

(mm)

1. Print this page out on an A4 sheet.
2. Cut the templates out with a scissors.
3. Adhere them to the wood with a temporary spray adhesive (Removable glue).
4. Follow the line, cut them out carefully with a scroll saw.



Your cutting skill will directly affect the work's accuracy.

- All parts -
After cutting, remove the paper templates and ensure a smooth finish (removing all burrs) with sandpaper or craft knife.

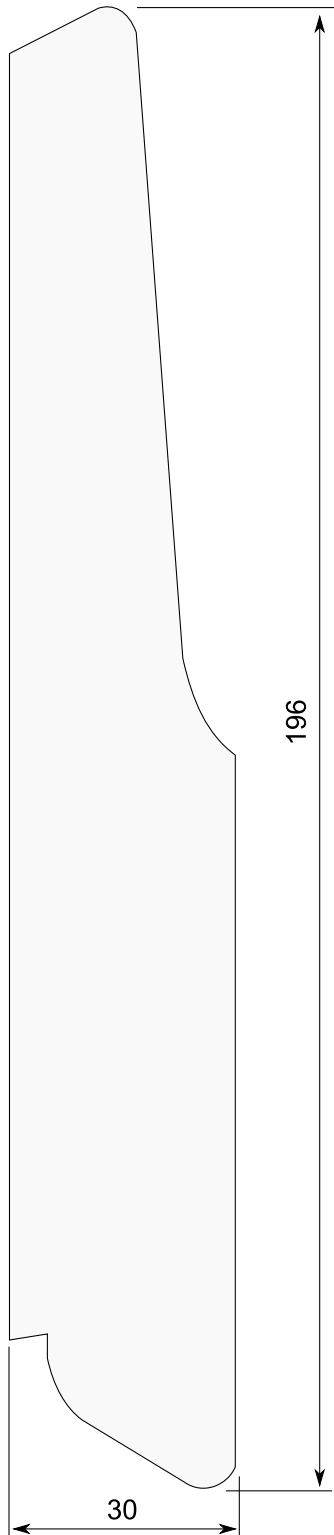
- Tips -
Some items are duplicated having both R and L sides, i.e. **Frame-panels** and **Grips**, after taping the pair of the wood with double-sided tape, you should cut the R and L parts from the wood at the same time.

50 mm

Frame-panel x 2 (R & L)

Material:

Wooden board 3 mm thickness



1. Print this page out on an A4 sheet.
2. Cut the templates out with a scissors.
3. Adhere them to the wood with a temporary spray adhesive (removable glue).
4. Follow the line, cut them out carefully with a scroll saw.

(mm)

Trigger-spring-pin x 2

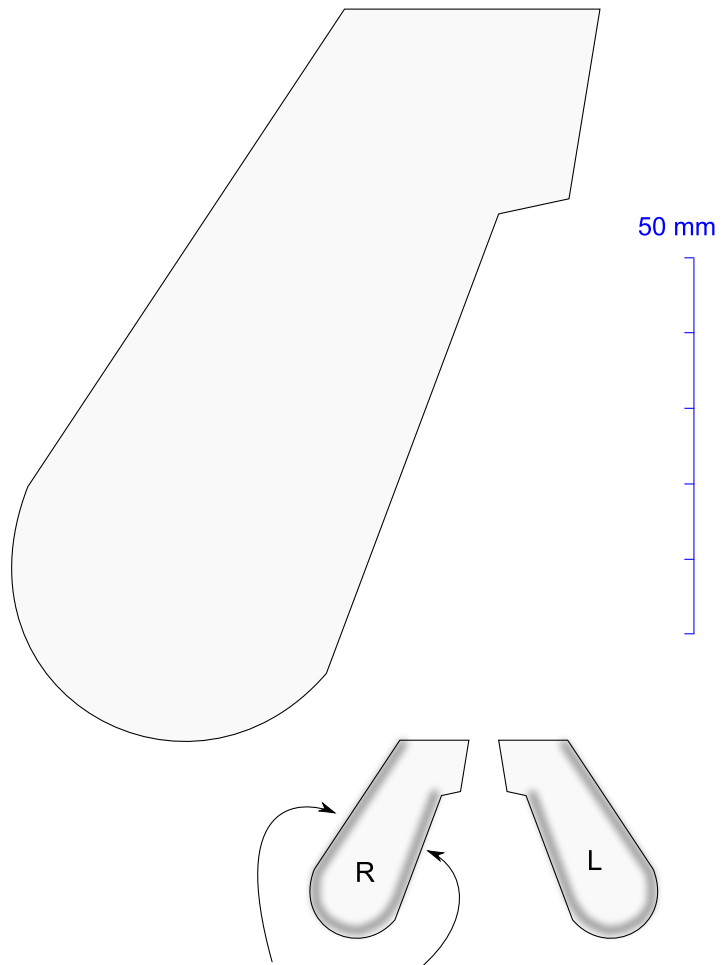
Material: Wooden round stick

D 2 ~ 2.5 mm Length 10 mm x 2



Grip x 2 (R & L)

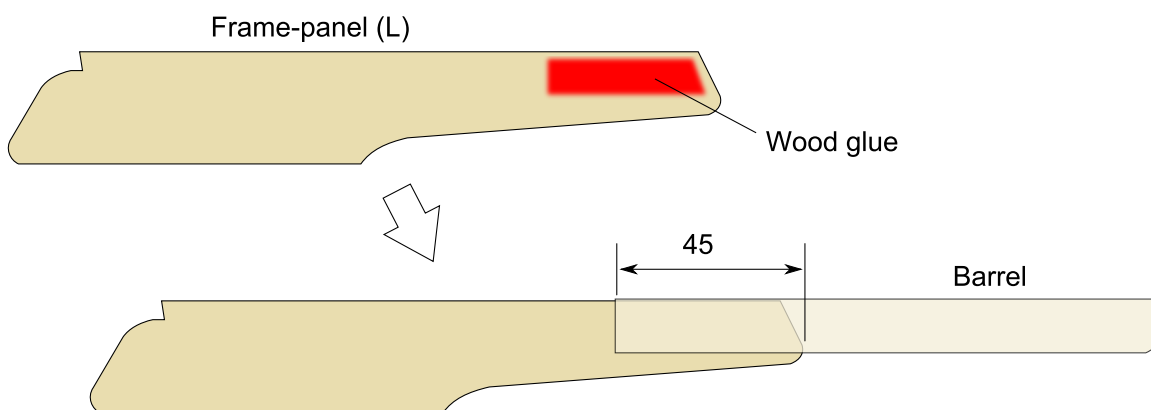
Material: YOur choice of wood
thickness 5 ~ 7 mm



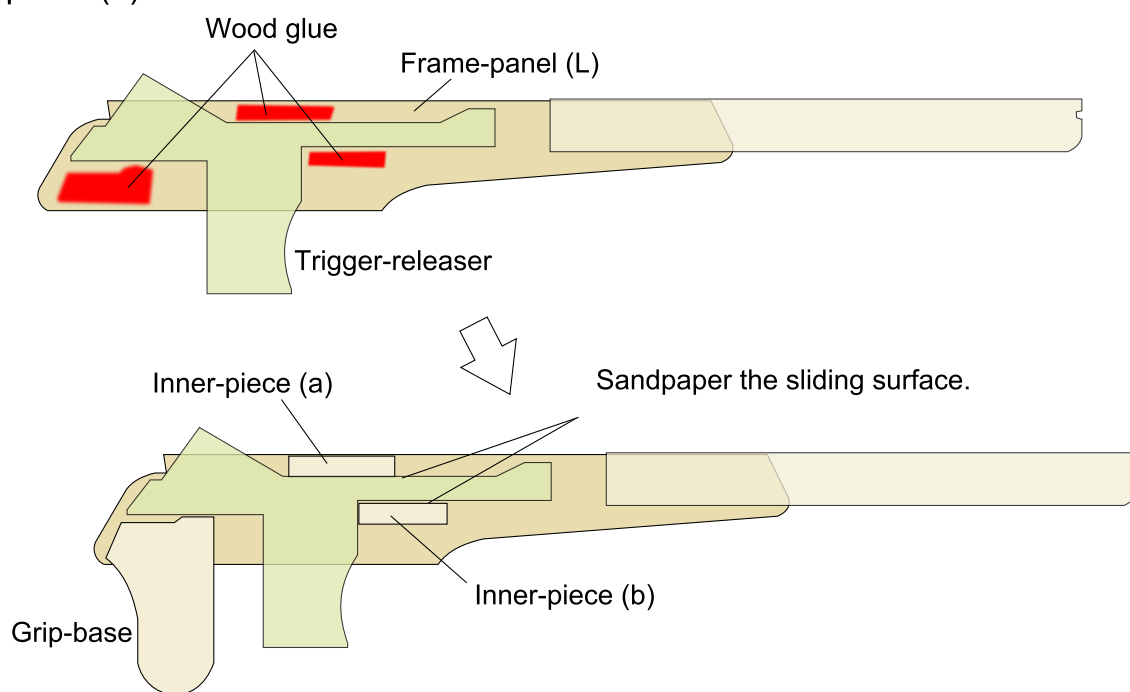
Chamfer the edges

- 1** Glue the Barrel to the Frame-panel (L).

(mm)

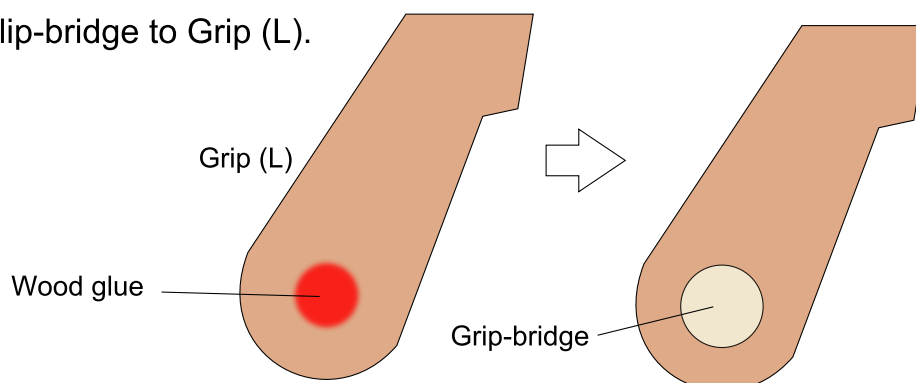


- 2** Put the Trigger-releaser on the Frame-panel (L) as the diagram below indicates, and glue the Inner-piece (a)(b) and Grip-base to the Frame-panel (L).

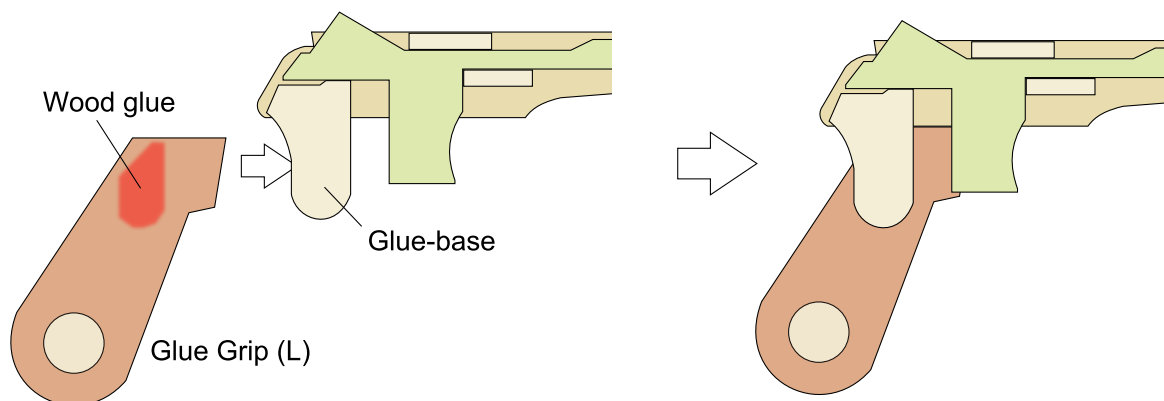


Just in case, remove the Trigger-releaser until the glue dries.

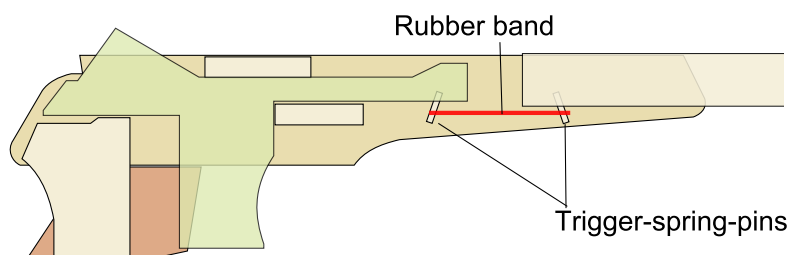
- 3** Glue the Glip-bridge to Grip (L).



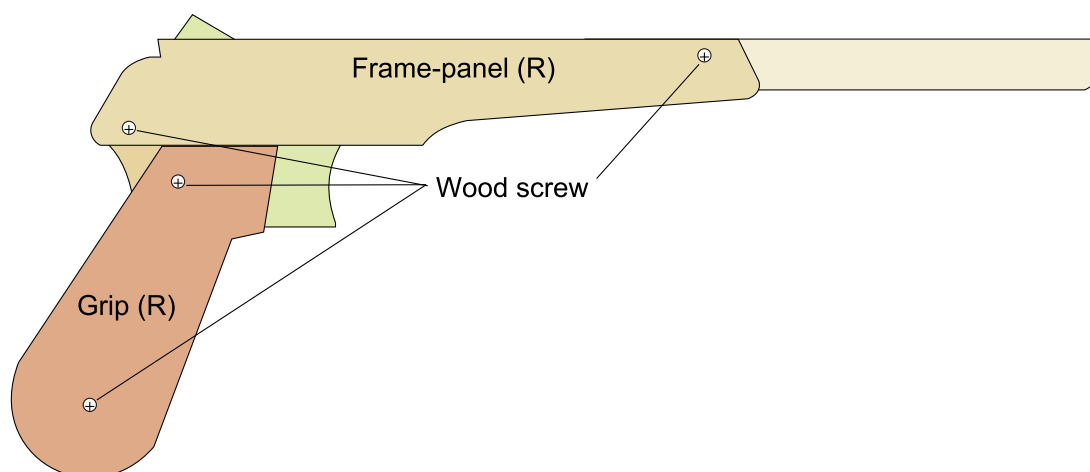
- 4** Glue the Grip (L) to the Grip-base.



- 5** Drill holes to the Trigger-releaser and Barrel, and insert the Trigger-spring-pins to the holes. Attach a rubber band between the pins as a Trigger-spring.



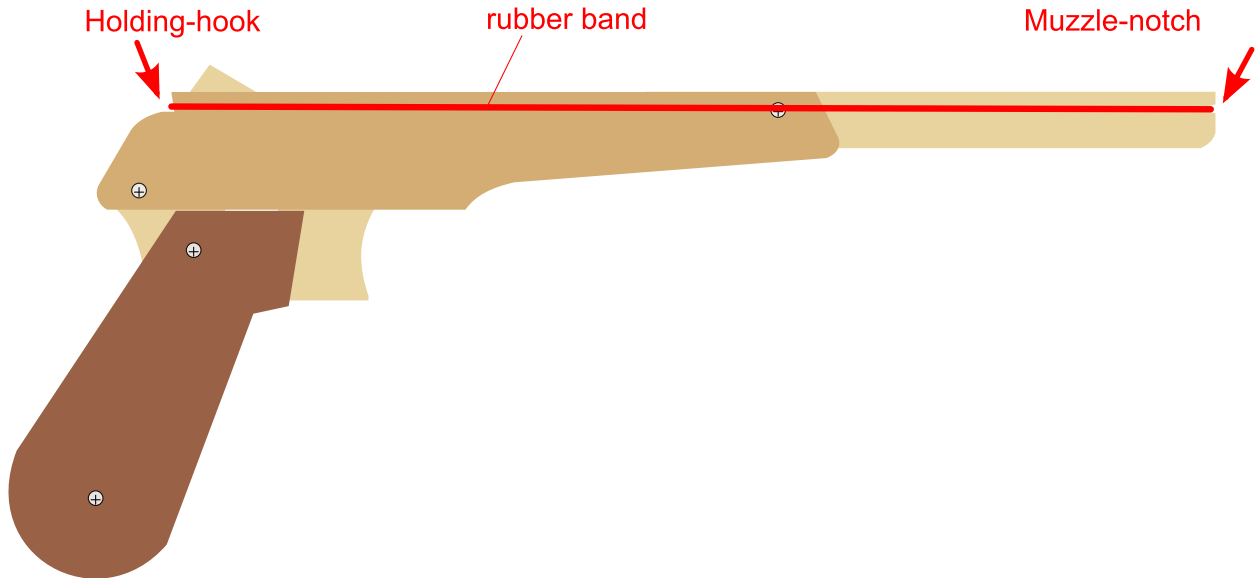
- 6** After drilling prepared holes, screw the Frame-panel (R) and Grip (R) to the work.



Finished

Loading -

1. Load rubber bands from the Muzzle-notch to the Holding-hook.



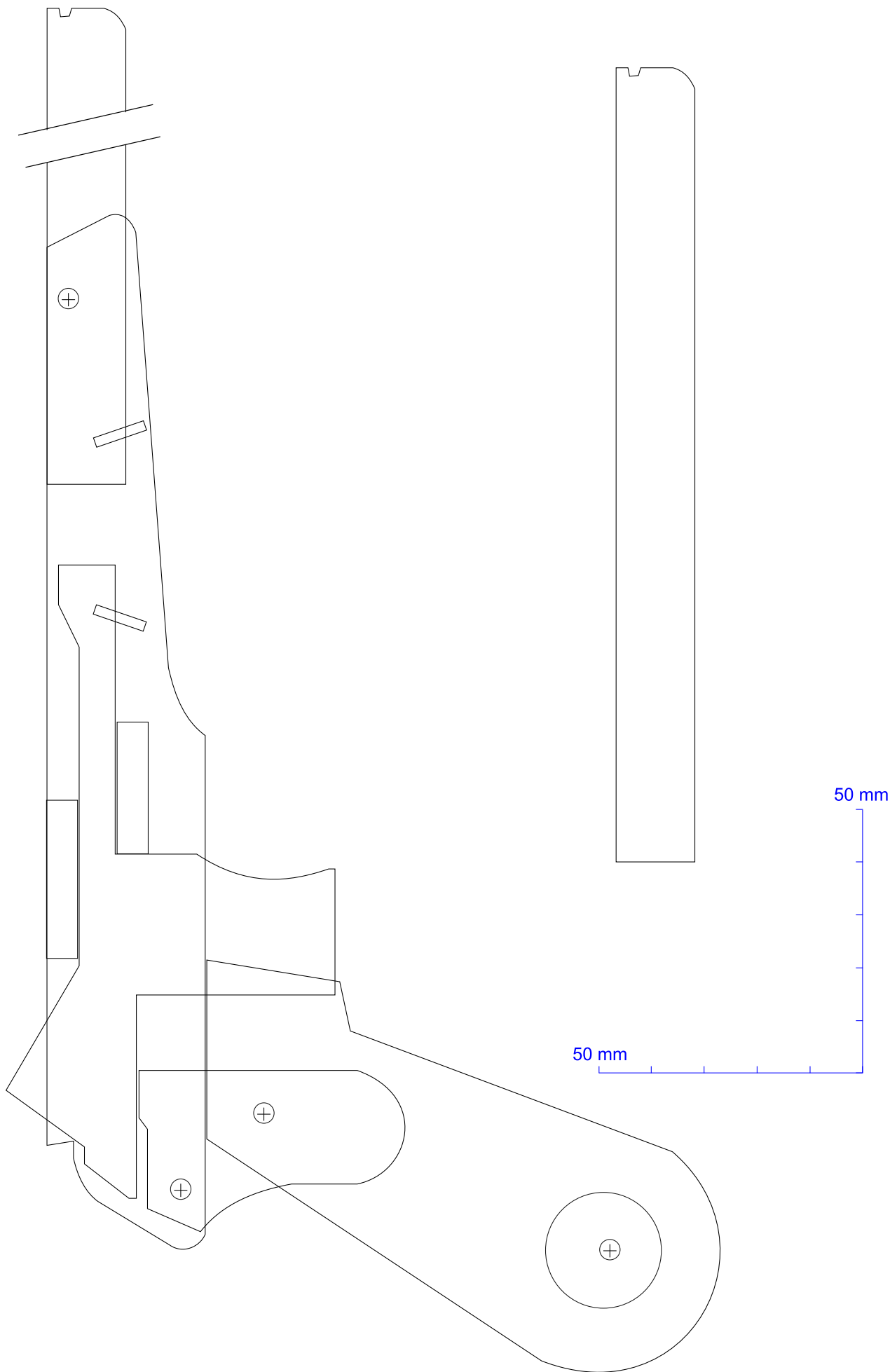
Shooting -

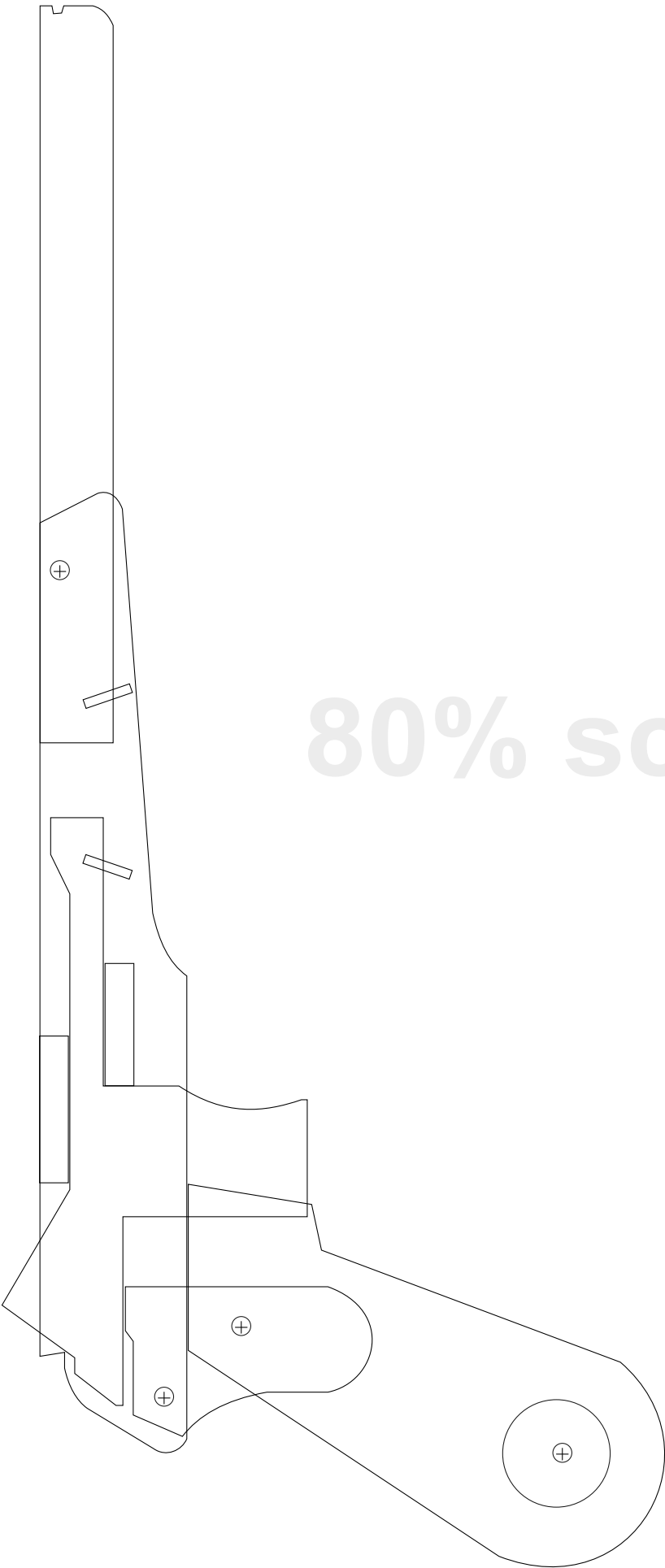
1. When the Trigger is pulled, the ramp of the Releaser lifts the rubber band and will release it.

Note -

This gun is a single shot gun, do not over-load. Do not aim the gun at another person. Use it at your own risk. I do not assume any liability for injury or damage incurred.

P210 ESFESTA





If you have an A3 printer, you can print this drawing at a 1:1 scale on an A3 sheet.

P210 ESFESTA

