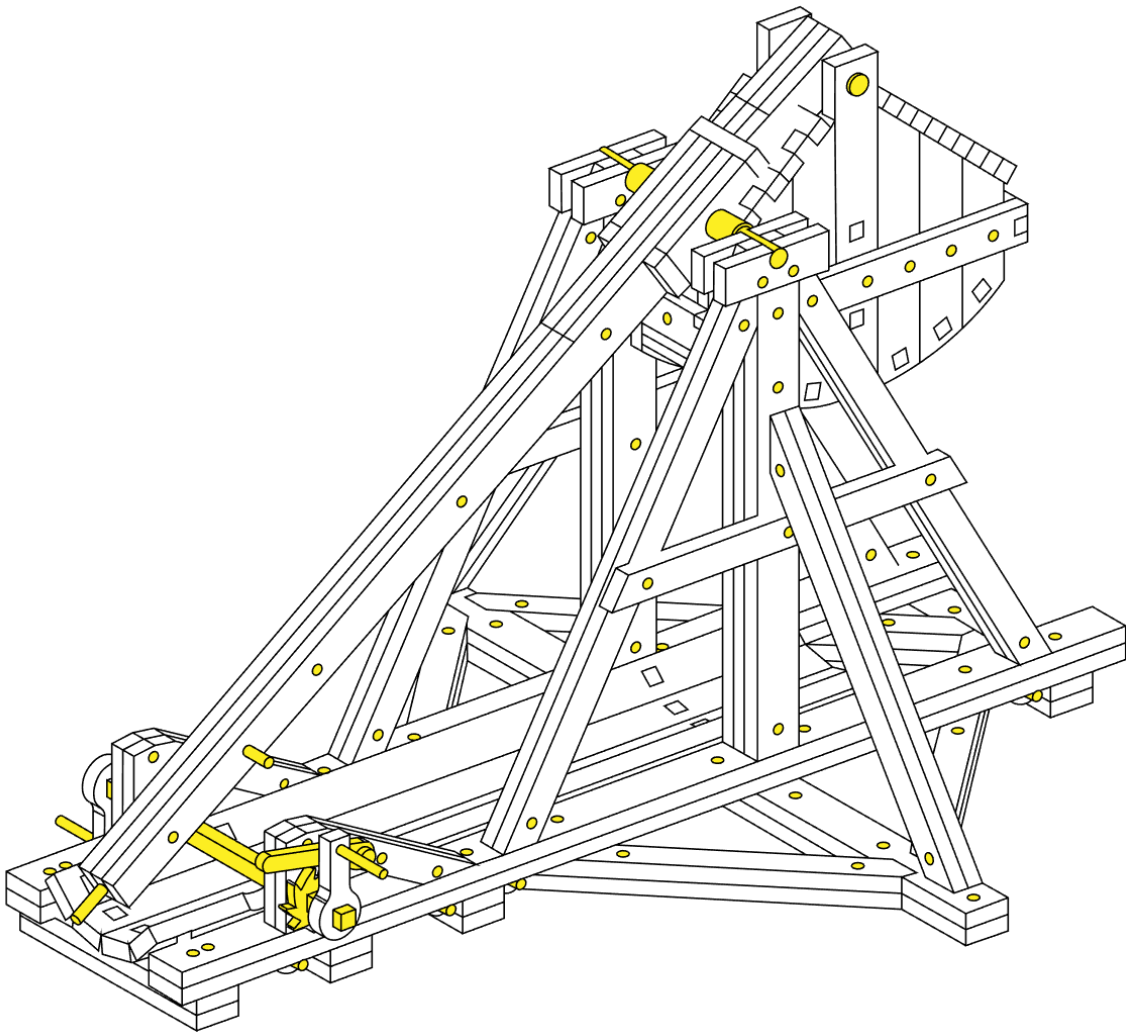


INSTRUCTION MANUAL

BASIC SERIES

TREBUCHET KIT

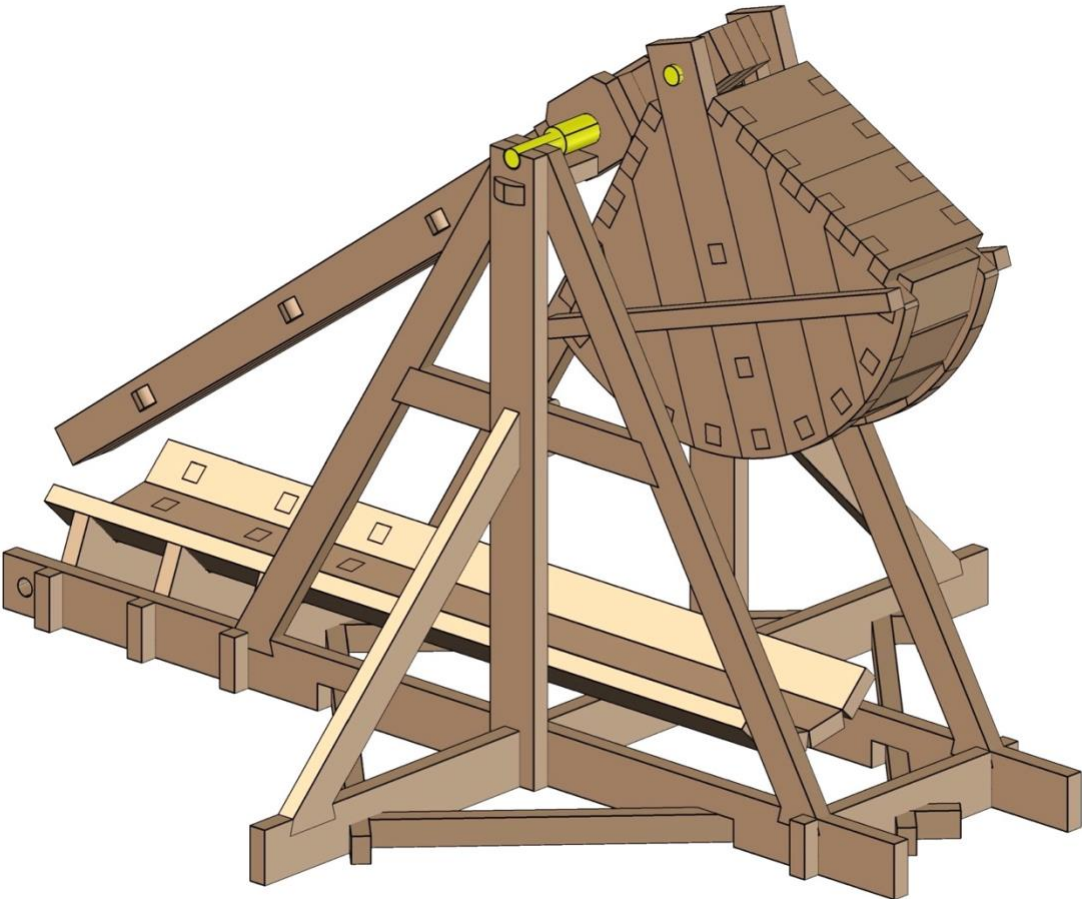


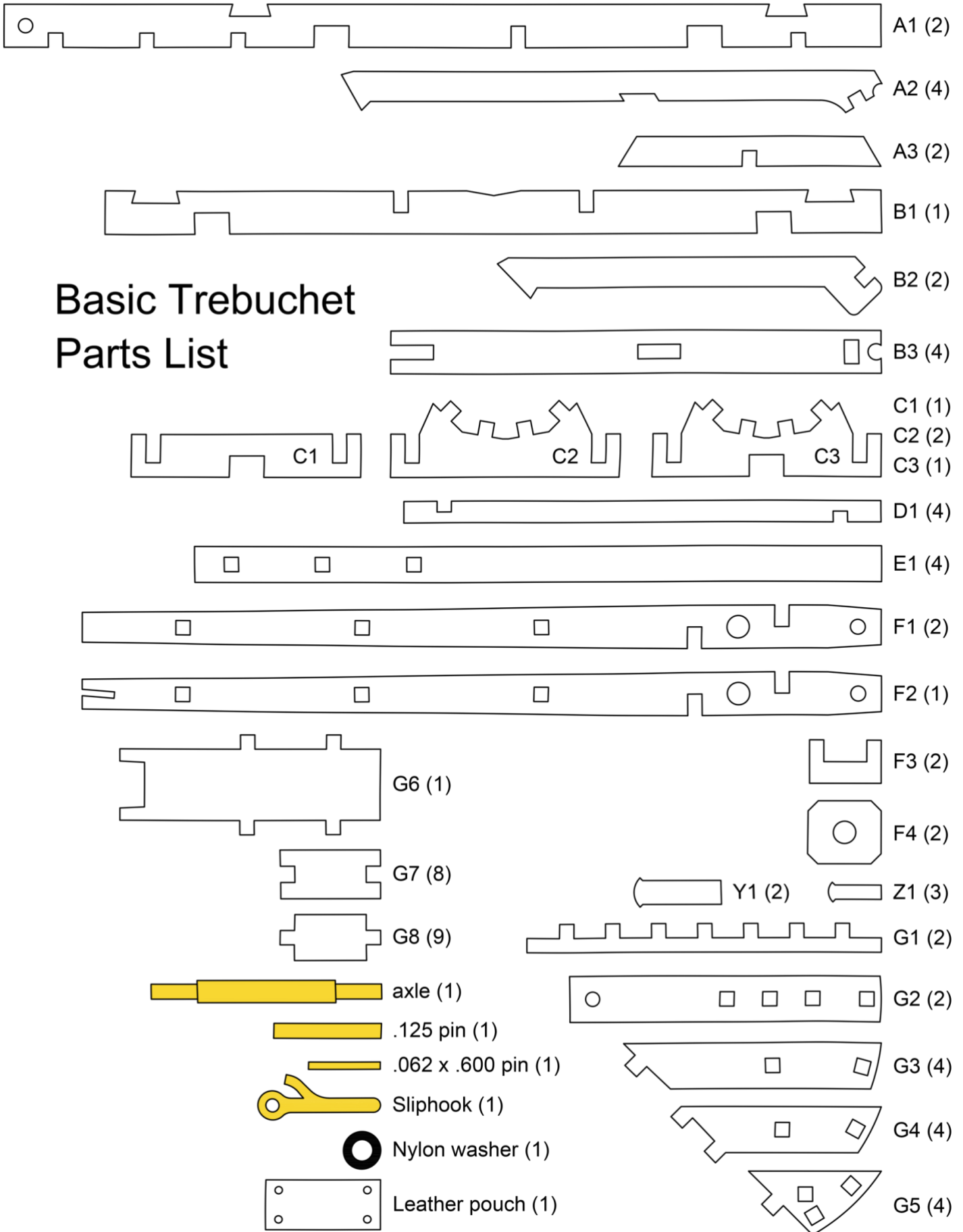
Warning

This kit contains small pieces. Keep away from children.
Do not aim at other people, pets, or yourself. Do not use this kit to launch sharp objects or anything that harms you or anyone else.

Table of contents

Section #	Name (est. time)	Page #
Section 1	– Wood Parts (min.)	
Section 2	– String (min.)	
Section 3	– Operation (min.)	





What's Needed:

- Hammer (for gently tapping brass pins into place)
- Scissors (to cut string)
- Superglue (to secure knots in the string)

Tips before you get started:

- Lay out all the wood parts on the inventory list.
- Build the kit on a workbench or cutting mat to prevent damage to your table.
- Use a spare piece of wood to set the pins in place (string tool works great) or lightly tap with a hammer.

Section 1 – Wood Parts

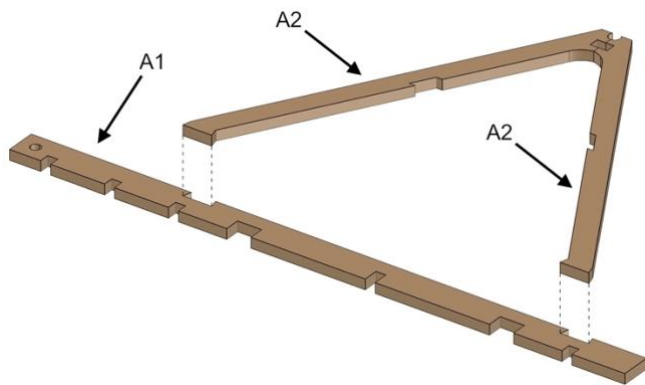


Fig. 1

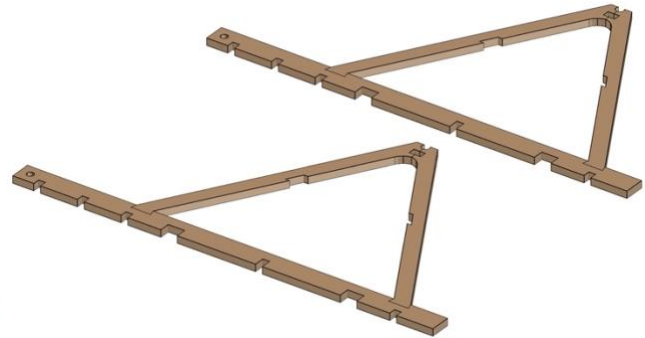


Fig. 2

- Align parts exactly as shown in *Fig. 1*.
- Attach two A2 pieces to the A1 piece.
- *Fig. 2* shows the completed process (make two parts).

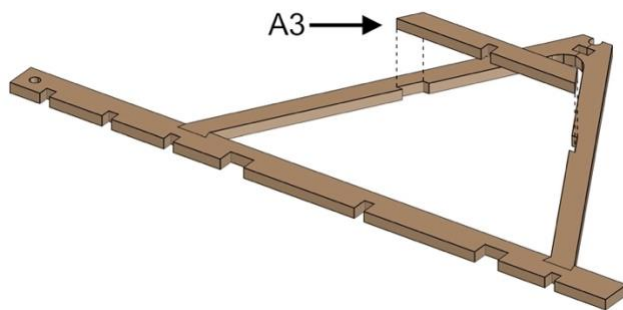


Fig. 3

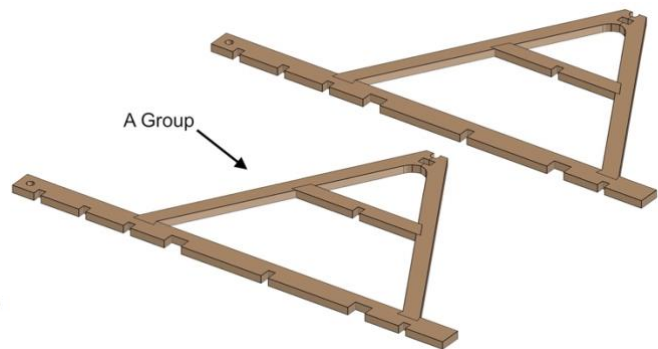


Fig. 4

- Align parts exactly as shown in *Fig. 3*.
- Attach the A3 piece.
- *Fig. 4* shows the completed process (make two parts).

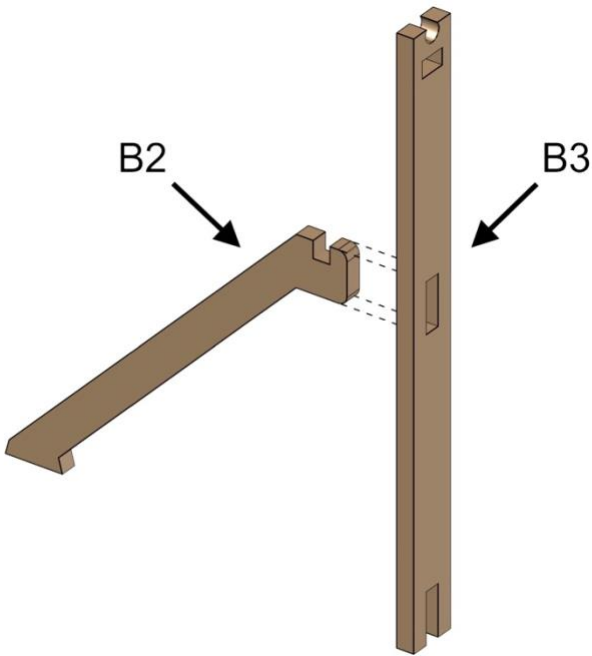


Fig. 5



Fig. 6

- Align parts exactly as shown in *Fig. 5*.
- Attach the B2 piece to B3.
- *Fig. 6* shows the completed process (make two parts).

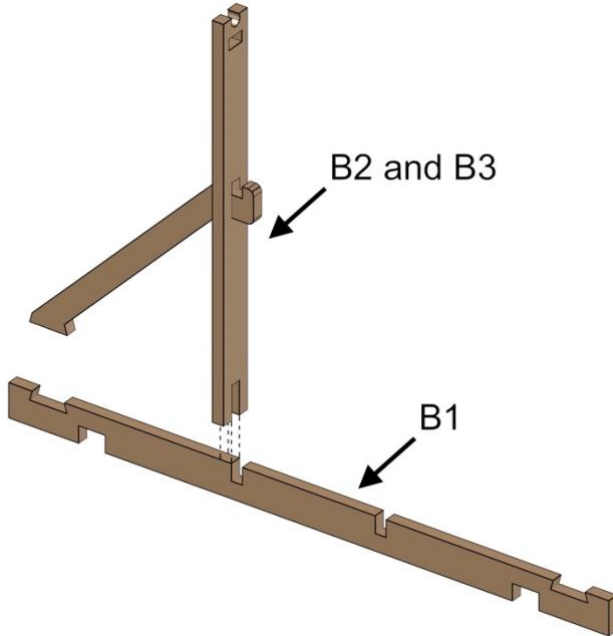


Fig. 7

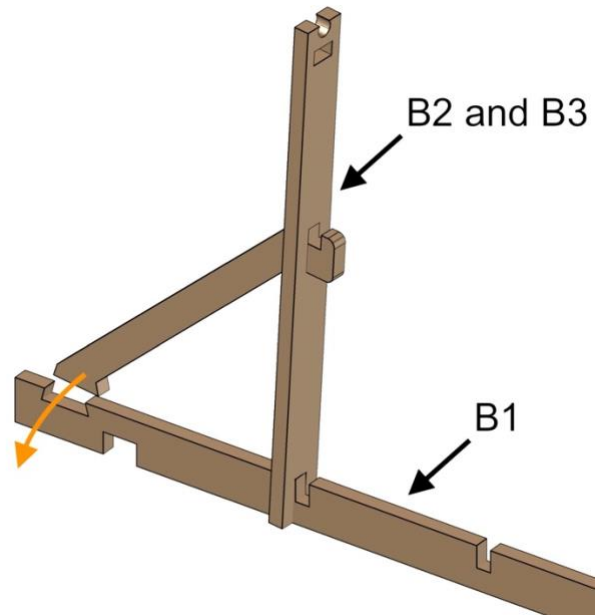


Fig. 8

- Align parts exactly as shown in *Fig. 7*.
- Attach the B2/B3 part to B1.
- Make sure to connect the B2 piece to B1, as shown in *Fig. 8*.

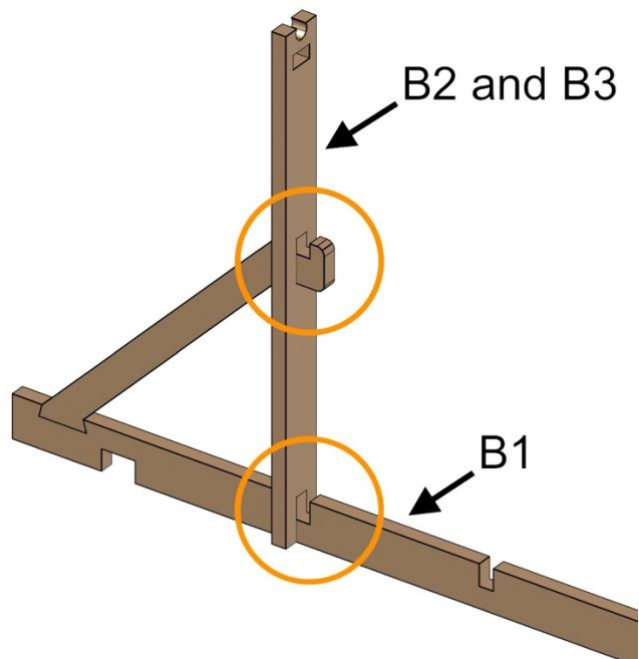


Fig. 9

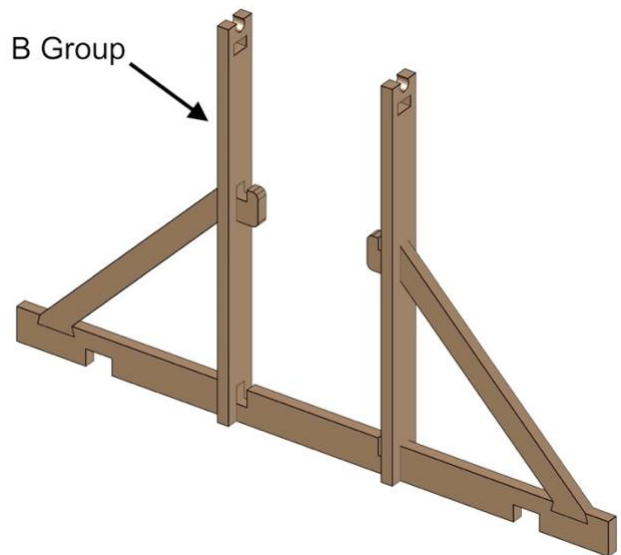


Fig. 10

- The orange circles highlight the correct position of B2/B3.
- Fig. 10 shows the completed process (repeat for both sides).

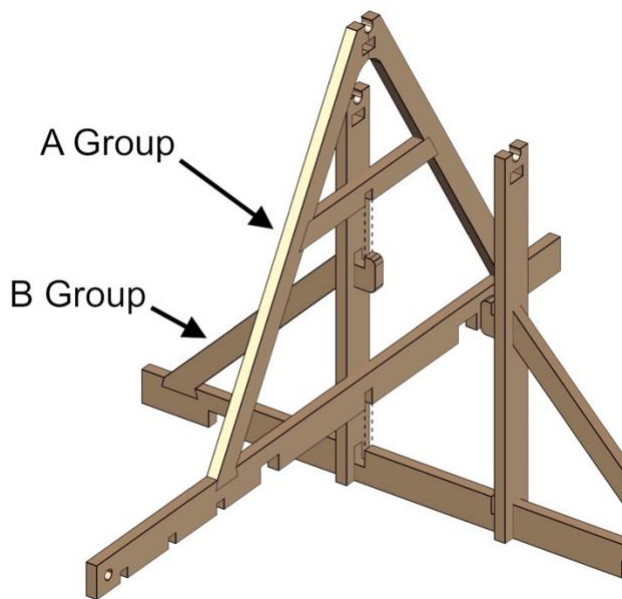


Fig. 11

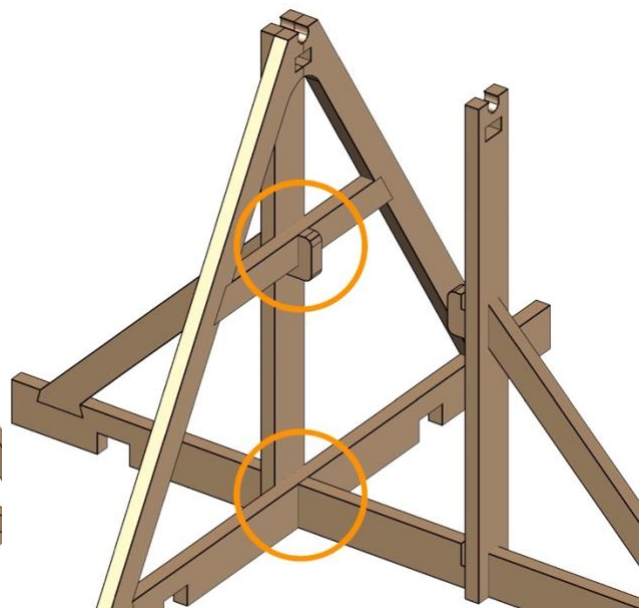


Fig. 12

- Align parts exactly as shown in Fig. 11.
- Connect the A Group to the B Group.
- Fig. 12 shows the completed process.

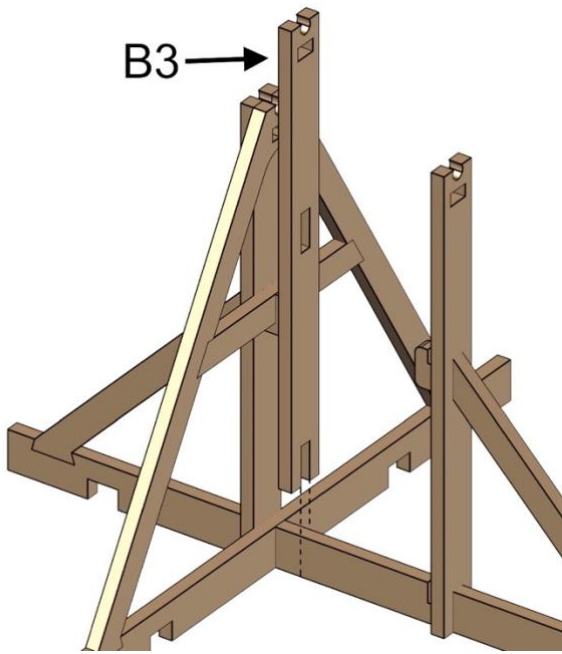


Fig. 13

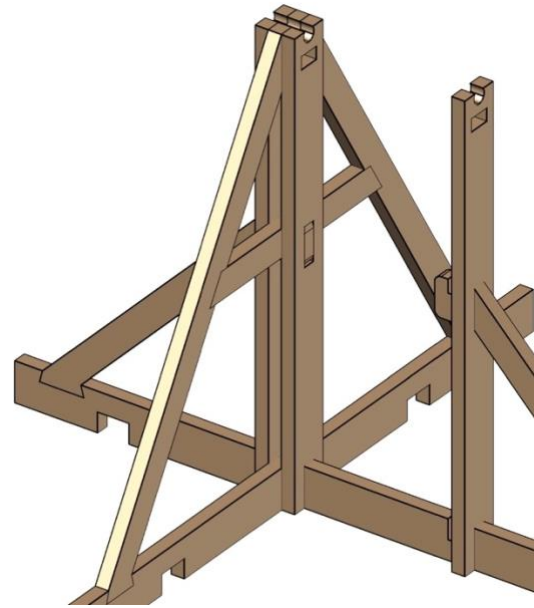


Fig. 14

- Align parts exactly as shown in *Fig. 13*.
- Attach the B3 piece.
- *Fig. 14* shows the completed process.



Fig. 15

- Attach another B3 to the opposite side.
- *Fig. 15* shows the completed process.

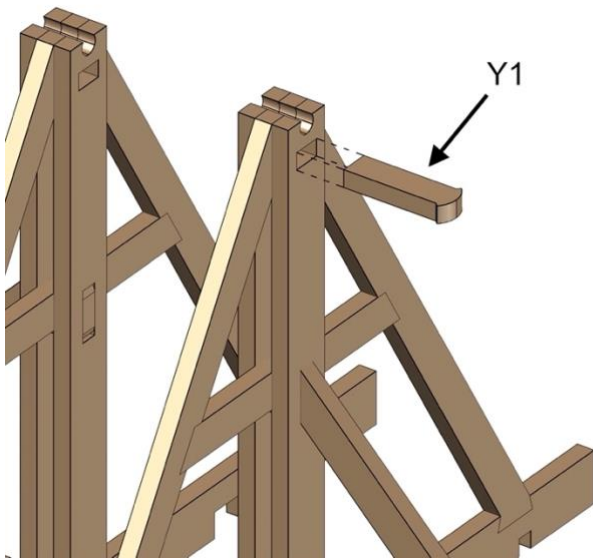


Fig. 16

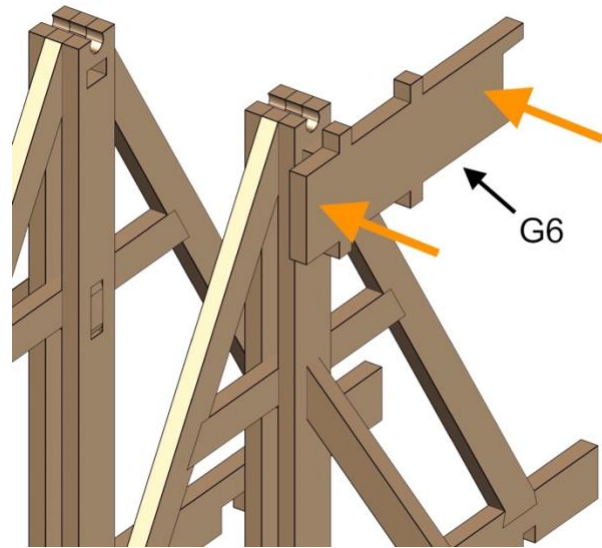


Fig. 17

- Align parts exactly as shown in Fig. 16.
- Insert one Y1 piece.
- Use a scrap piece of wood, such as the G6 piece to push on the Y1.



Fig. 18

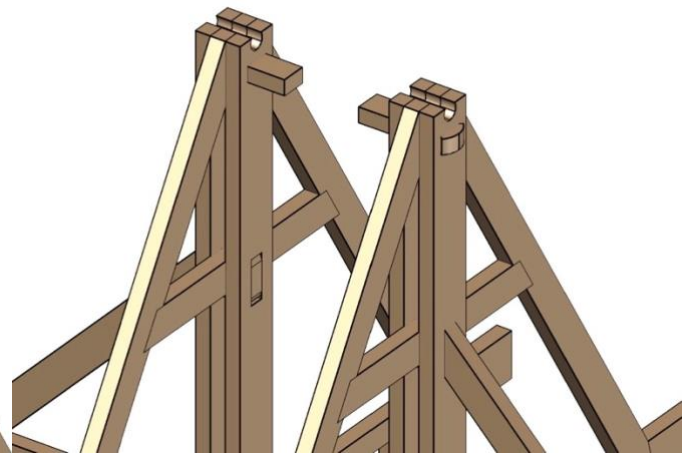


Fig. 19

- Fig. 18 shows the completed process.
- Attach another Y1 to the opposite side.
- Fig. 19 shows the completed process.

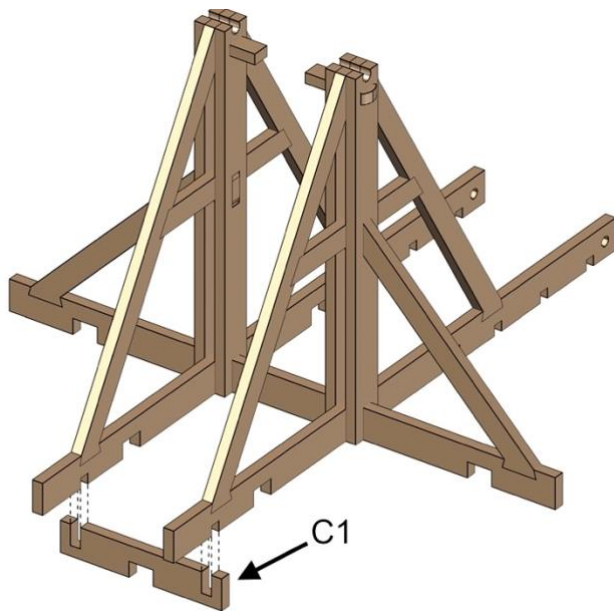


Fig. 20



Fig. 21

- Align parts exactly as shown in *Fig. 20*.
- Attach the C1 piece.
- *Fig. 21* shows the completed process.

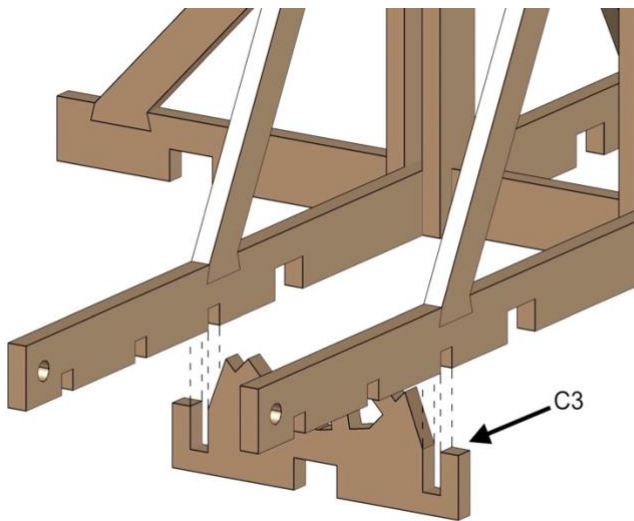


Fig. 22

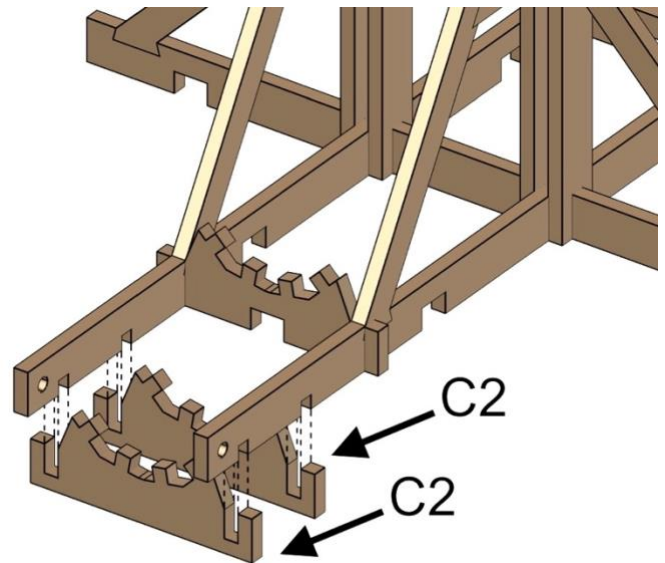


Fig. 23

- Align parts exactly as shown in *Fig. 22*.
- Attach the C3 piece.
- Align parts exactly as shown in *Fig. 23*.
- Attach two C2 pieces.

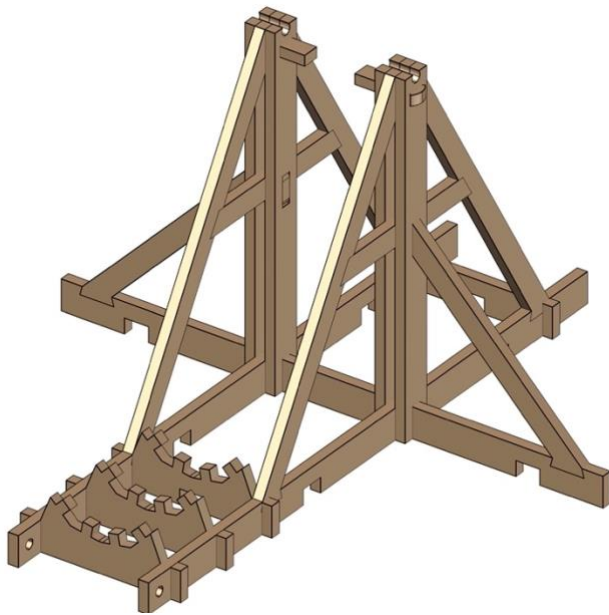


Fig. 24

➤ Fig. 24 shows the completed process.

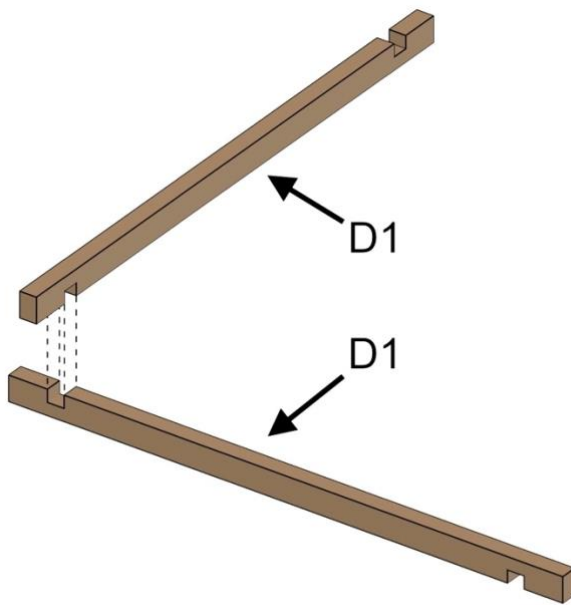


Fig. 25



Fig. 26

- Align parts exactly as shown in Fig. 25.
- Connect two D1 pieces together.
- Fig. 26 shows the completed process.

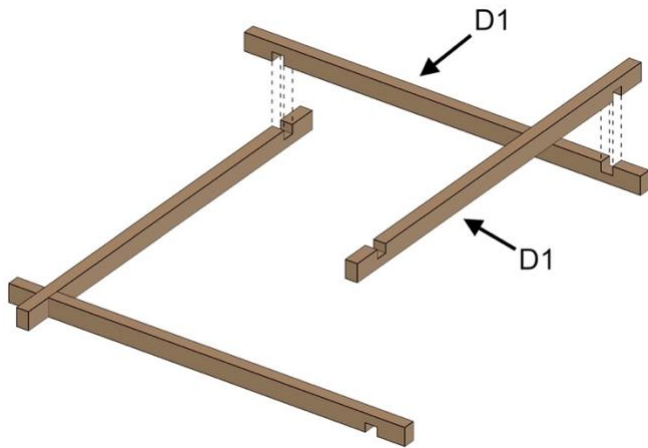


Fig. 27

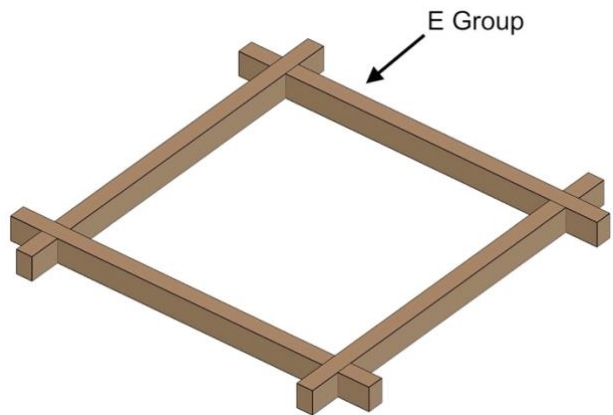


Fig. 28

- Align parts exactly as shown in *Fig. 27*.
- Attach two more D1 pieces.
- *Fig. 28* shows the completed process.

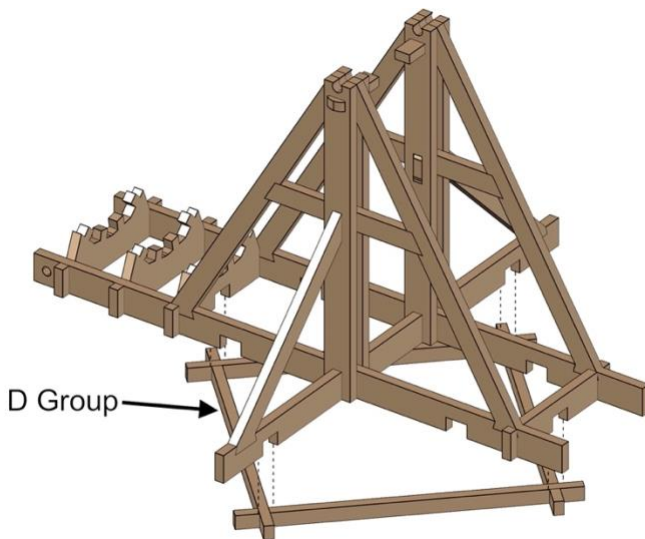


Fig. 29

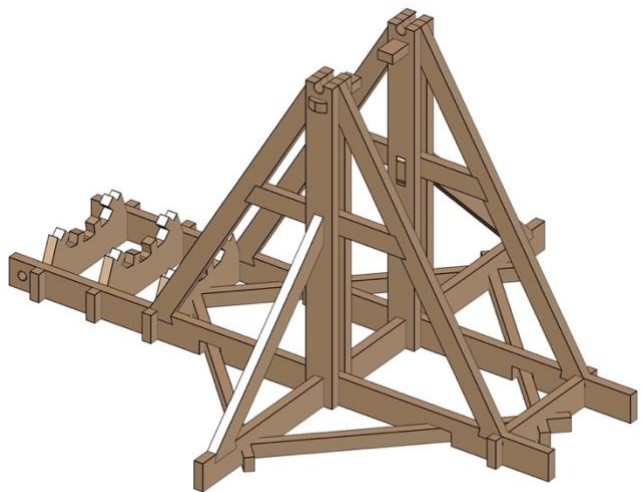


Fig. 30

- Align parts exactly as shown in *Fig. 29*.
- Attach the D group to the underside of the Trebuchet.
- *Fig. 30* shows the completed process.

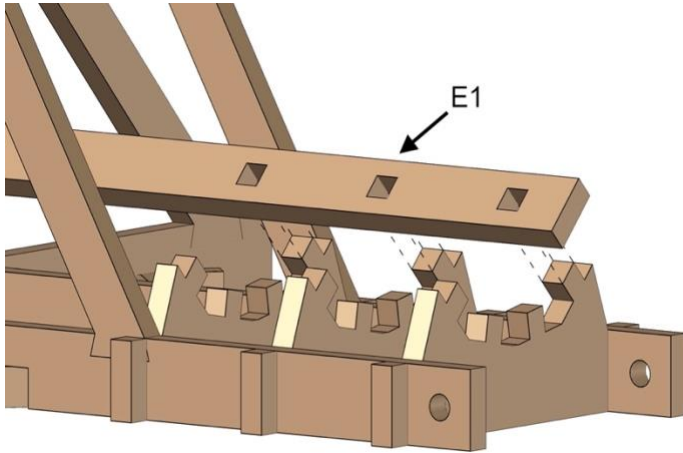


Fig. 31

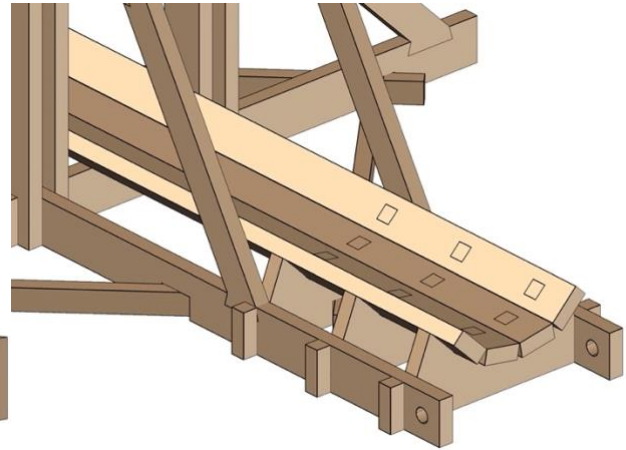


Fig. 32

- Align parts exactly as shown in *Fig. 31*.
- Insert four E1 pieces.
- *Fig. 32* shows the completed process.

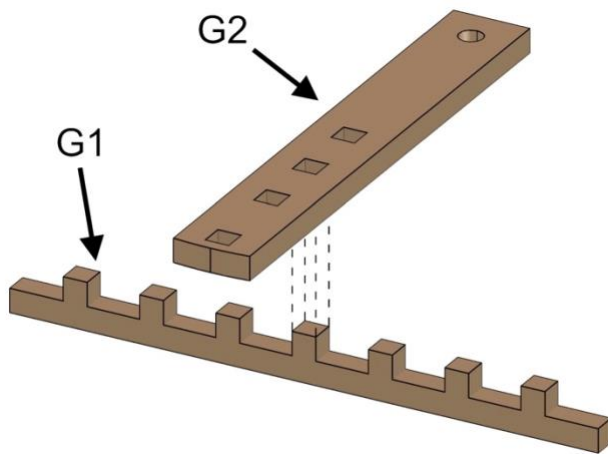


Fig. 33

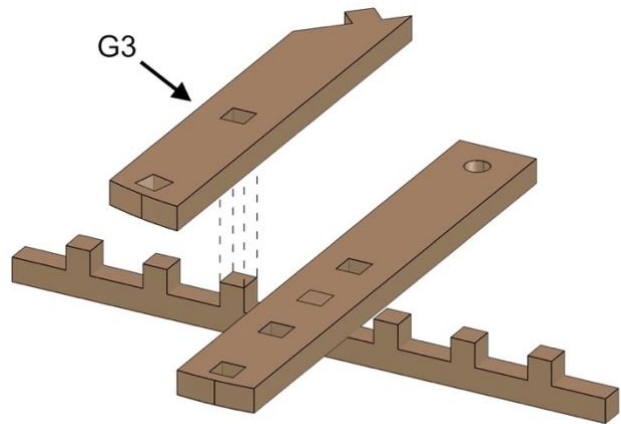


Fig. 34

- Align parts exactly as shown in *Fig. 33*.
- Attach the G2 and G1 pieces together.
- Align parts exactly as shown in *Fig. 34*.
- Attach the G3 piece.

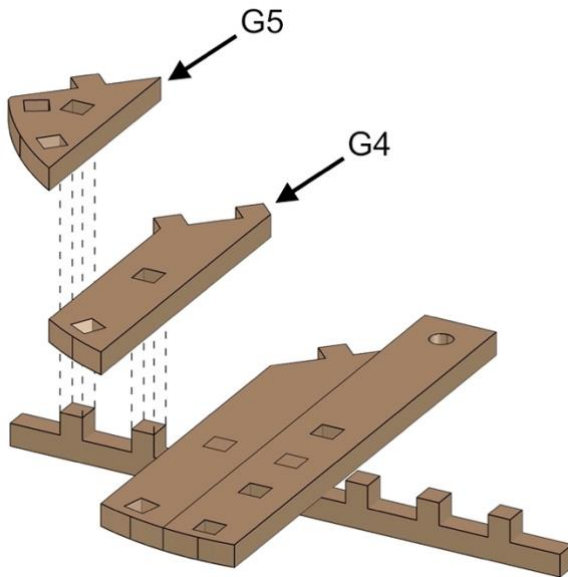


Fig. 35

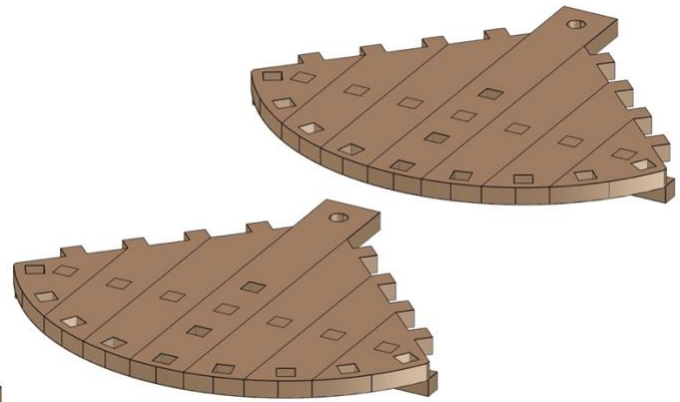


Fig. 36

- Align parts exactly as shown in *Fig. 35*.
- Attach the G4 and G5 pieces.
- *Fig. 36* shows the completed process (make two parts).

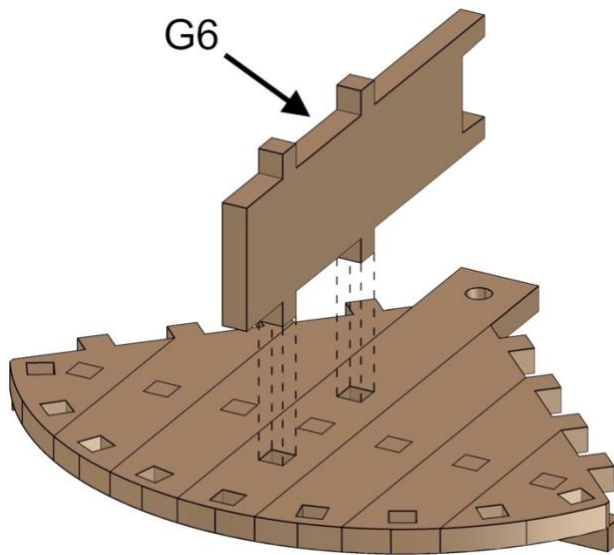


Fig. 37

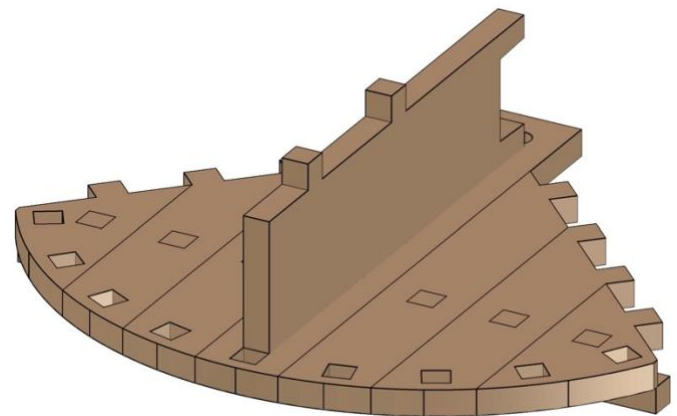


Fig. 38

- Align parts exactly as shown in *Fig. 37*.
- Attach the G6 piece.
- *Fig. 38* shows the completed process.

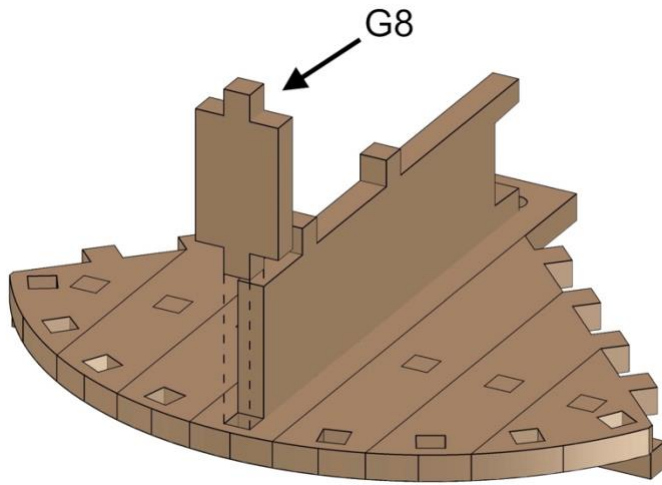


Fig. 39

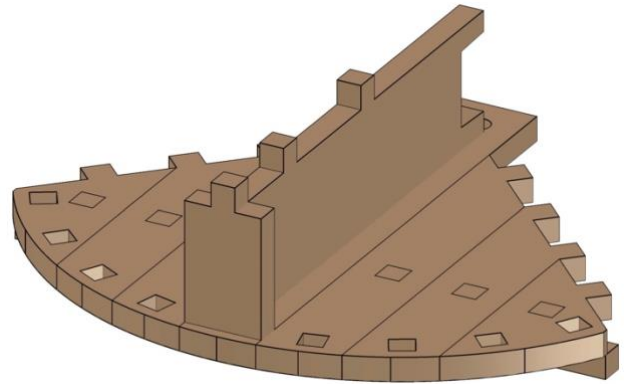


Fig. 40

- Align parts exactly as shown in *Fig. 39*.
- Insert the G8 piece.
- *Fig. 40* shows the completed process.

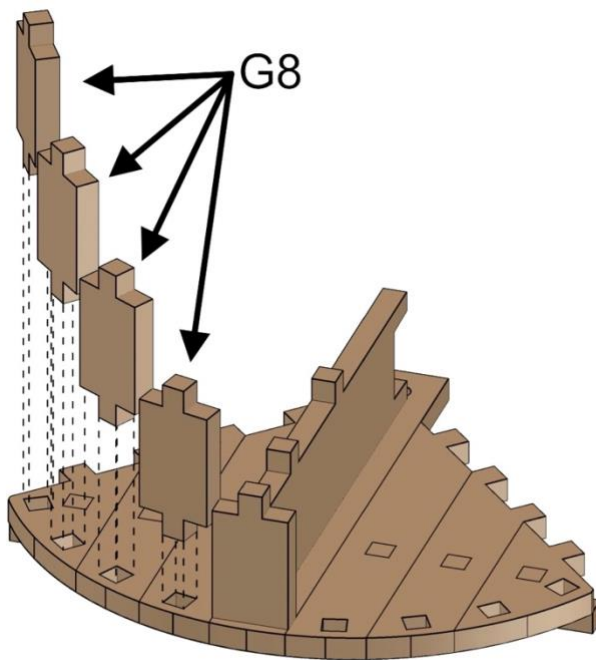


Fig. 41

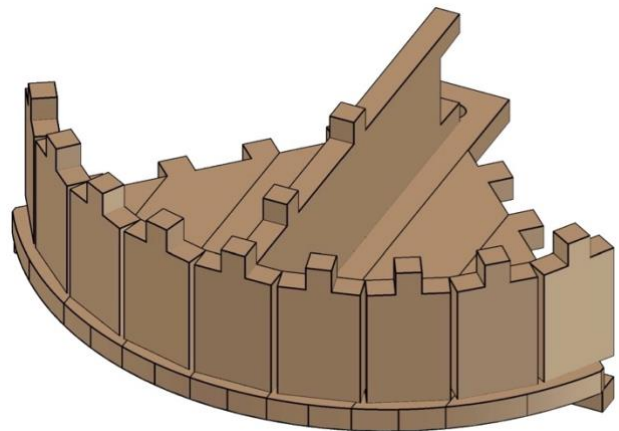


Fig. 42

- Insert the rest of the G8 pieces, as shown in *Fig. 41*.
- *Fig. 42* shows the completed process.

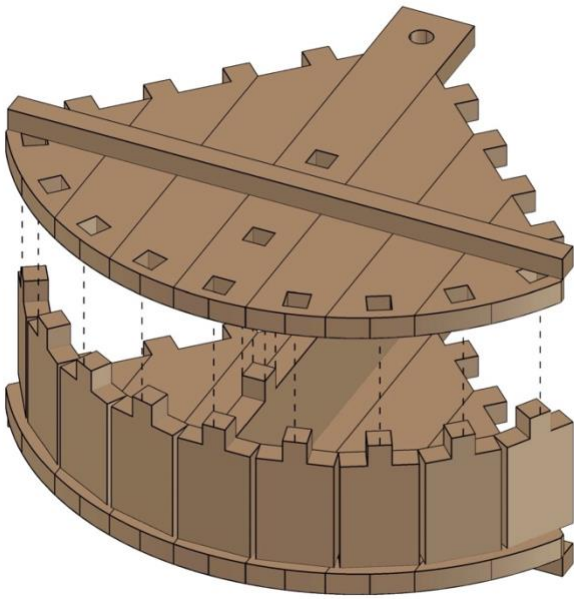


Fig. 43

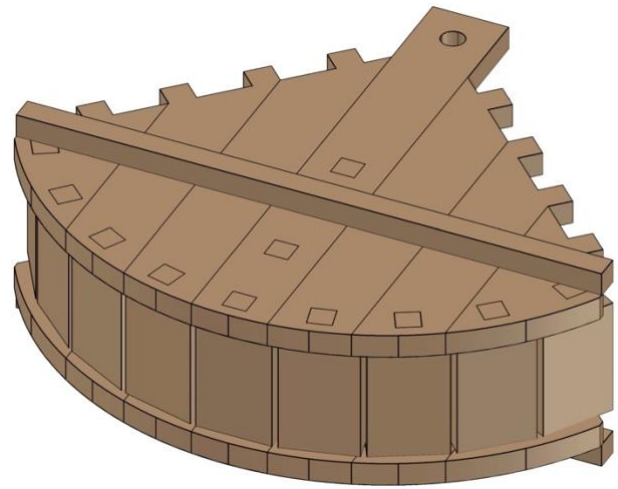


Fig. 44

- Align parts exactly as shown in *Fig. 43*.
- Connect the two parts together.
- *Fig. 44* shows the completed process.

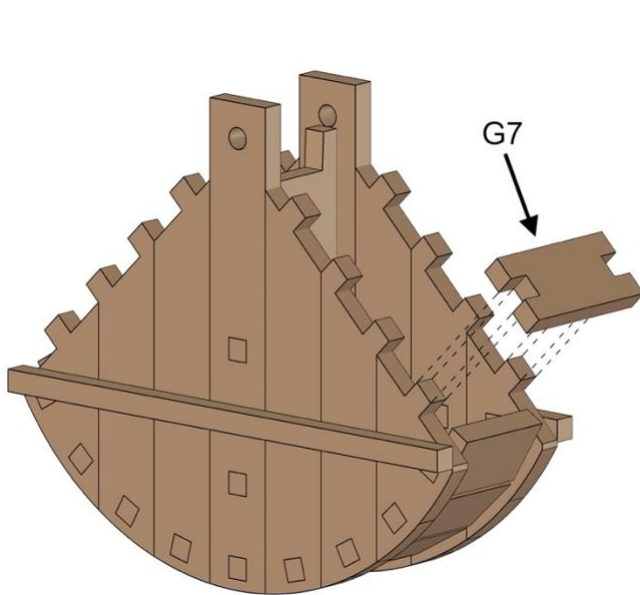


Fig. 45

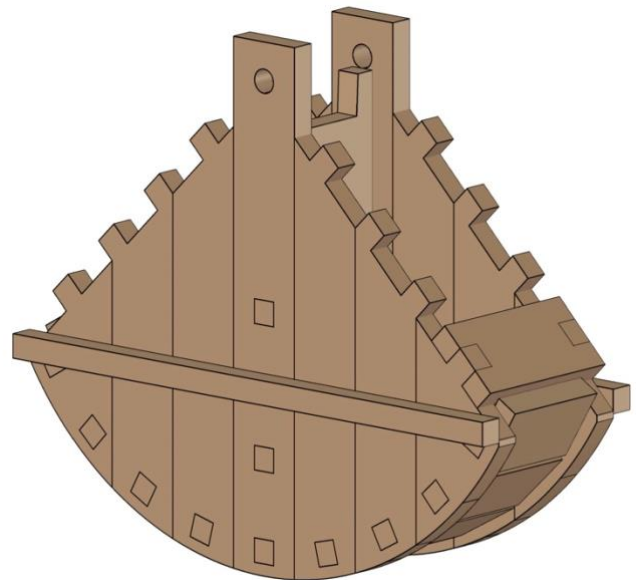


Fig. 46

- Align parts exactly as shown in *Fig. 45*.
- Attach the G7 piece.
- *Fig. 46* shows the completed process.

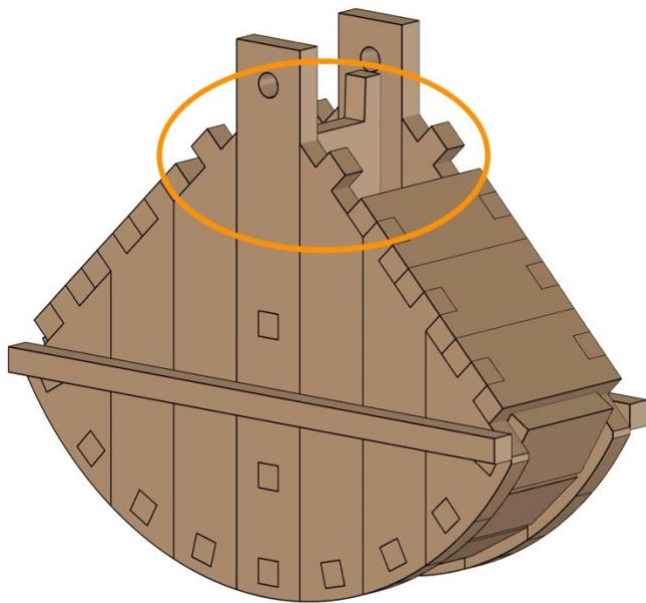


Fig. 47

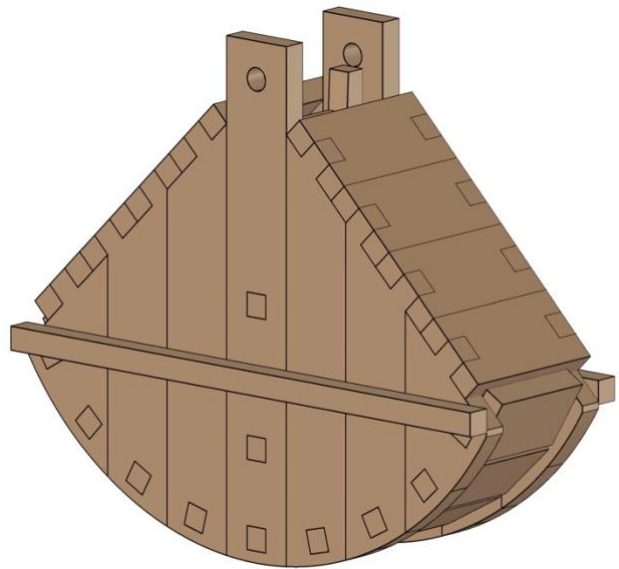


Fig. 48

- Attach the rest of the G7 pieces, except for the top two.
- Fill with counterweight (steel BBs, lead shot, or anything heavy).
- Attach the last two G7 pieces, as shown in *Fig. 48*.

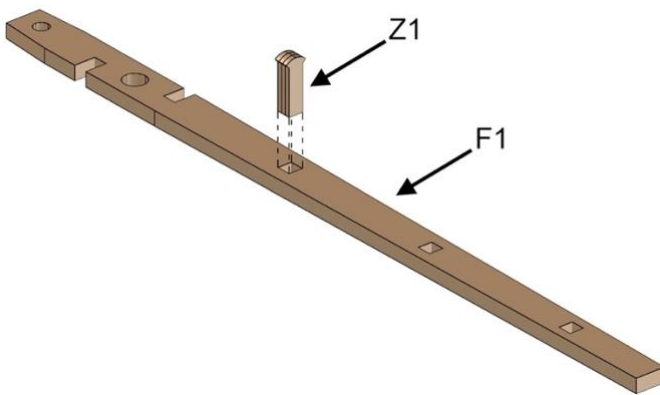


Fig. 49



Fig. 50

- Align parts exactly as shown in *Fig. 49*.
- Insert the Z1 piece, making sure the part is exactly as shown in *Fig. 49* (look at the layers of wood)
- *Fig. 50* shows the completed process.

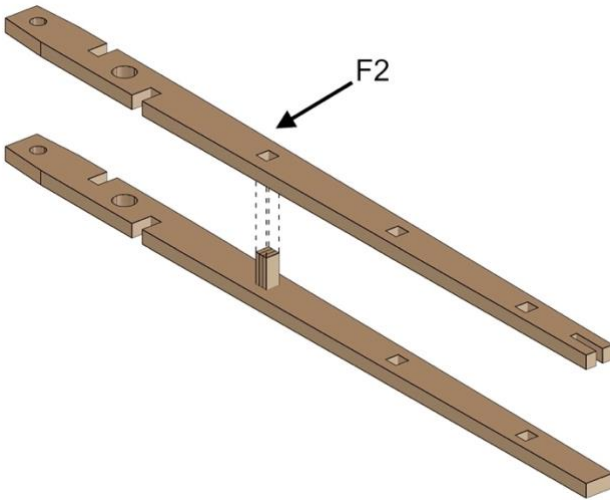


Fig. 51

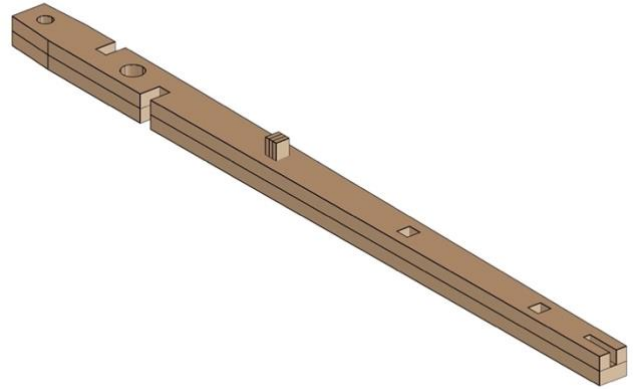


Fig. 52

- Align parts exactly as shown in *Fig. 51*.
- Attach the F2 Piece.
- *Fig. 52* shows the completed process.

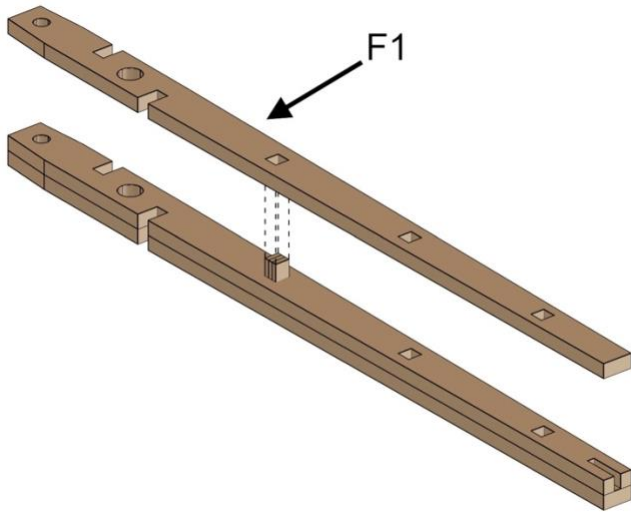


Fig. 53

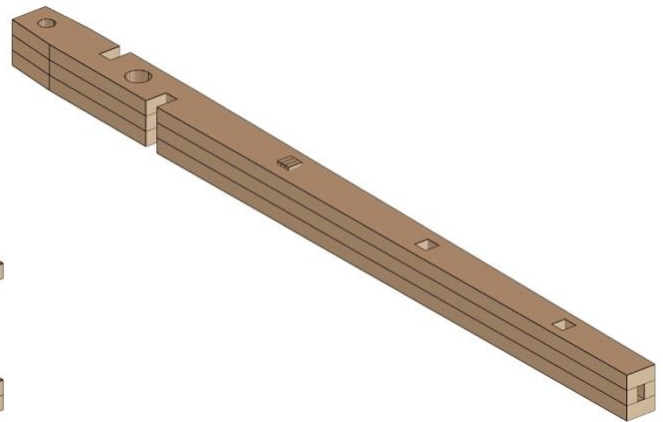


Fig. 54

- Align parts exactly as shown in *Fig. 53*.
- Attach the F1 piece.
- *Fig. 54* shows the completed process.

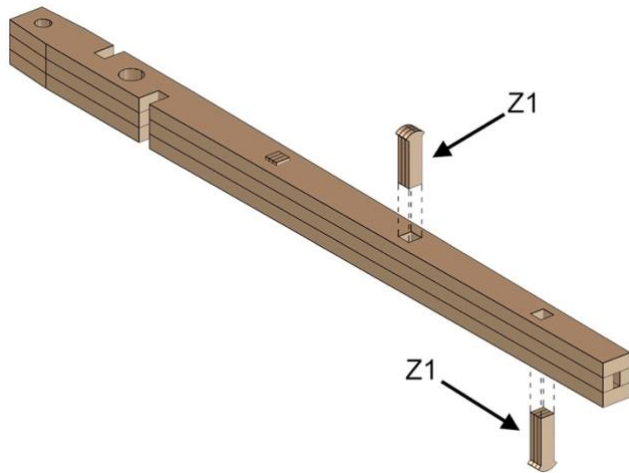


Fig. 55

- Align parts exactly as shown in *Fig. 55*.
- Insert two Z1 pieces, making sure the part is exactly as shown in *Fig. 55*.

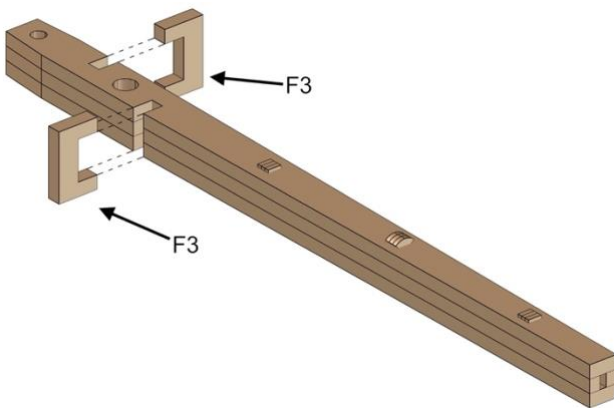


Fig. 56

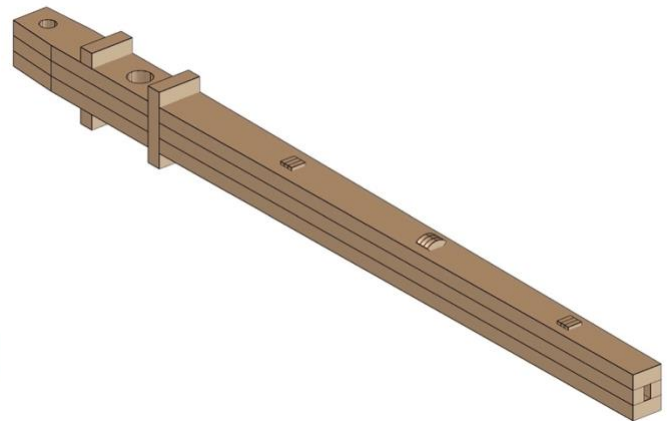


Fig. 57

- Align parts exactly as shown in *Fig. 56*.
- Attach the F3 pieces.
- *Fig. 57* shows the completed process.

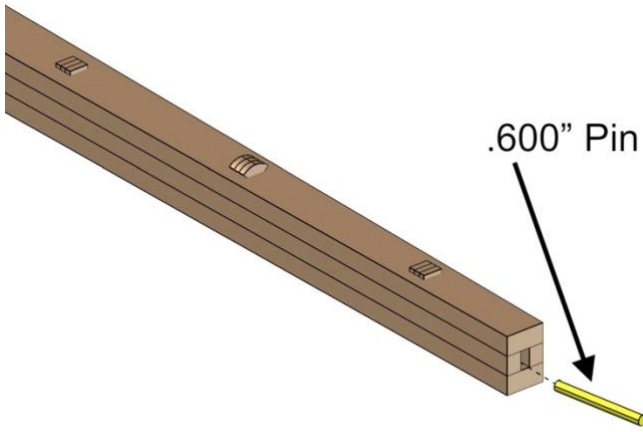


Fig. 58

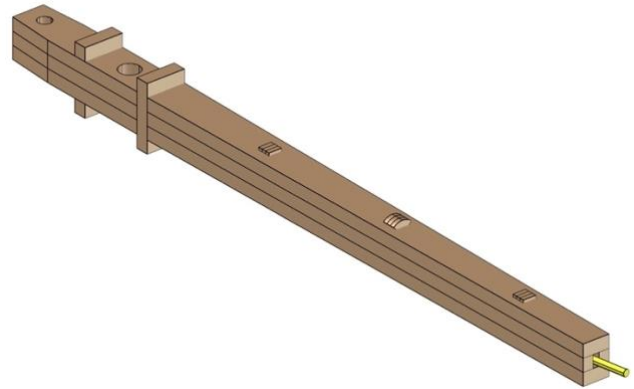


Fig. 59

- Insert a .600" Pin, as shown in *Fig. 58*.
- *Fig. 59* shows the completed process.

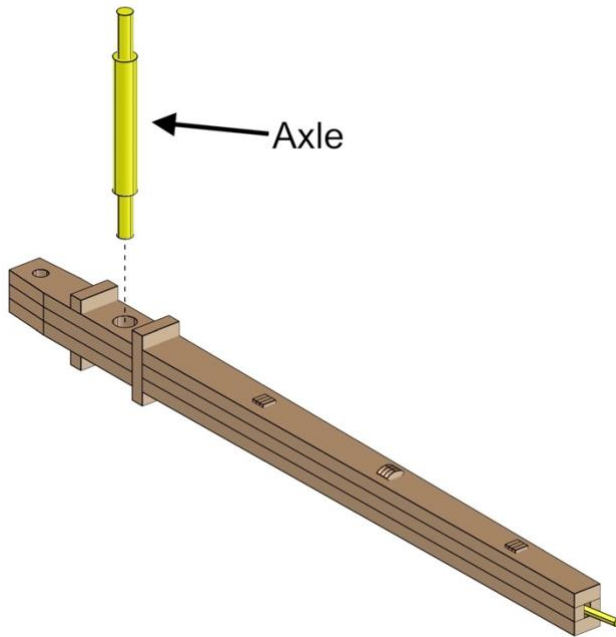


Fig. 60

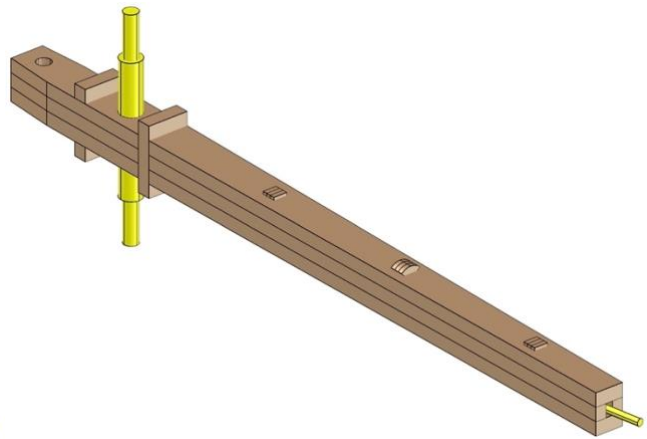


Fig. 61

- Align parts exactly as shown in *Fig. 60*.
- Insert the Axle.
- *Fig. 61* shows the completed process.

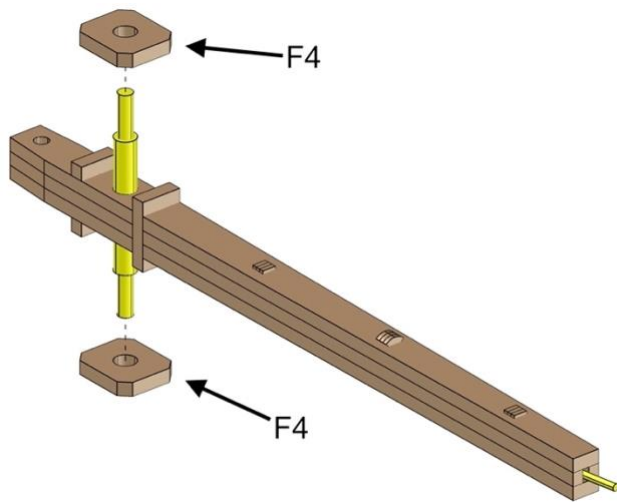


Fig. 62

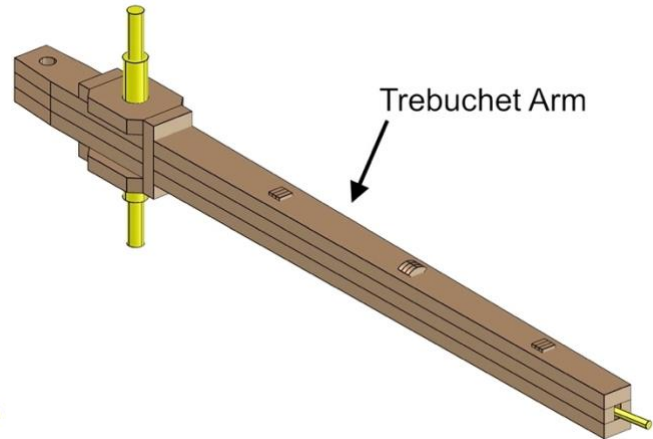


Fig. 63

- Align parts exactly as shown in *Fig. 62*.
- Insert the F4 pieces.
- *Fig. 63* shows the completed process.

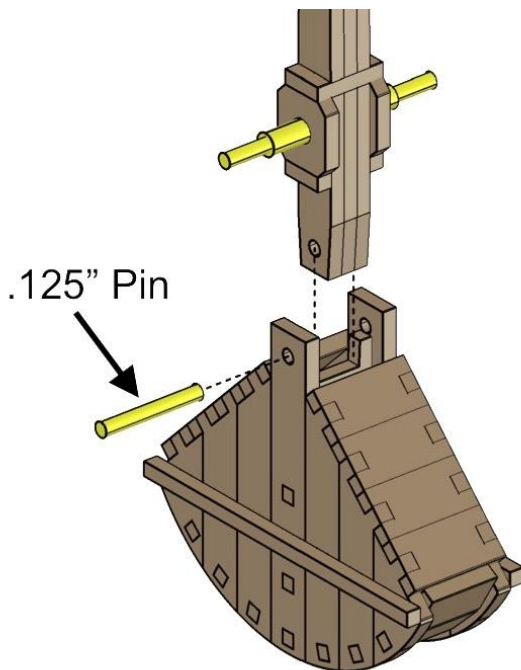


Fig. 64

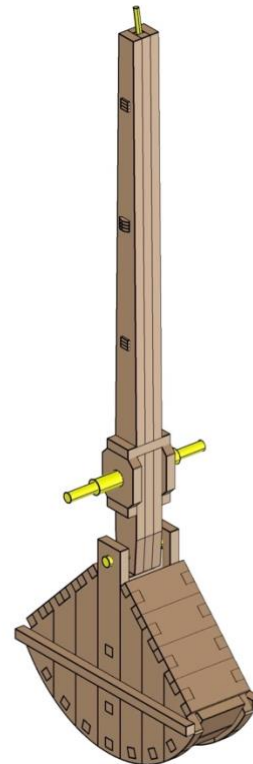


Fig. 65

- Align parts exactly as shown in *Fig. 64*.
- Using the .125" Pin, Attach the Arm to the Counterweight.
- *Fig. 65* shows the completed process.



Fig. 66

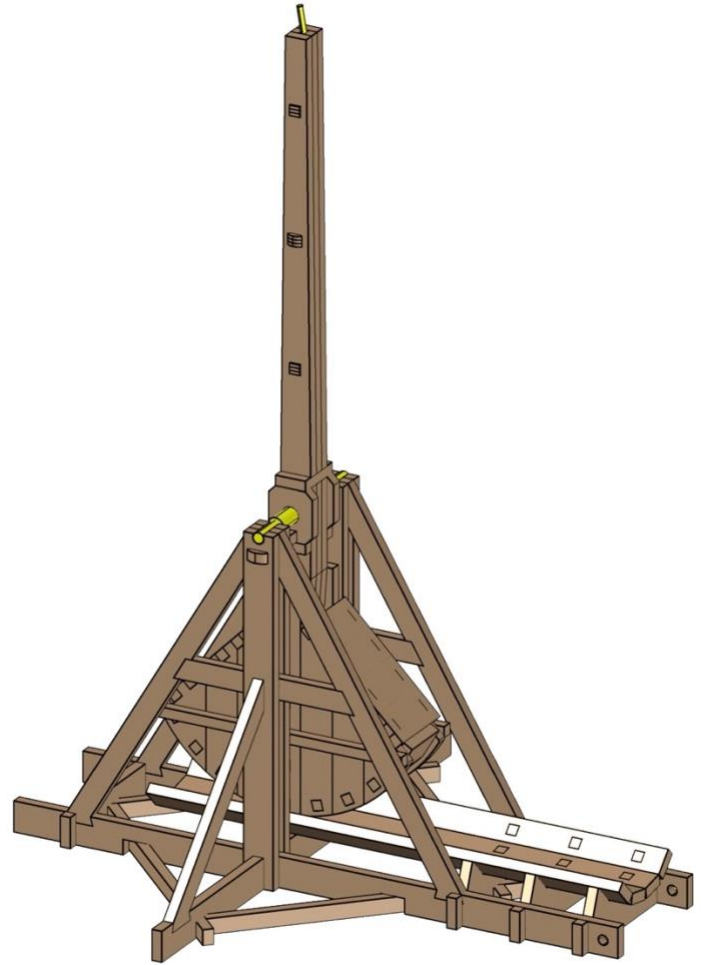
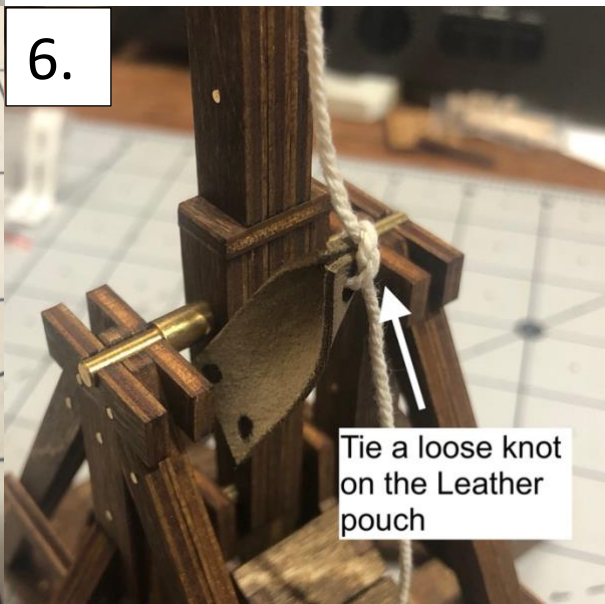
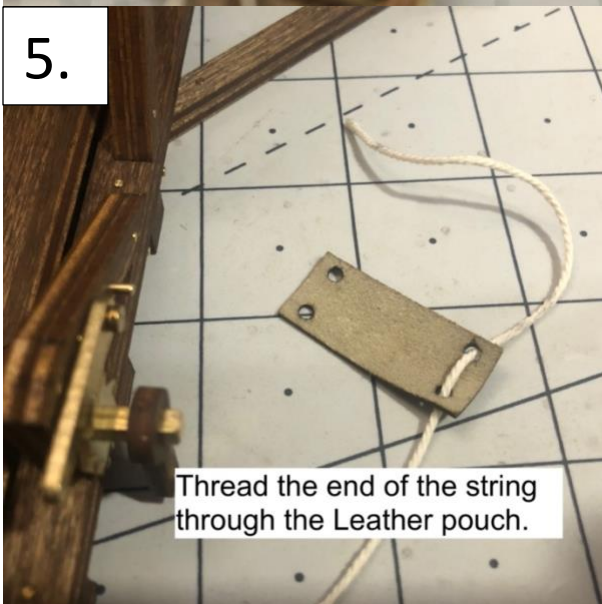
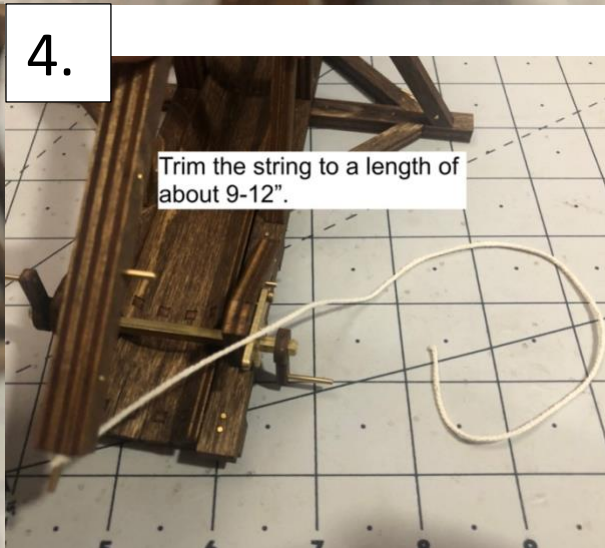
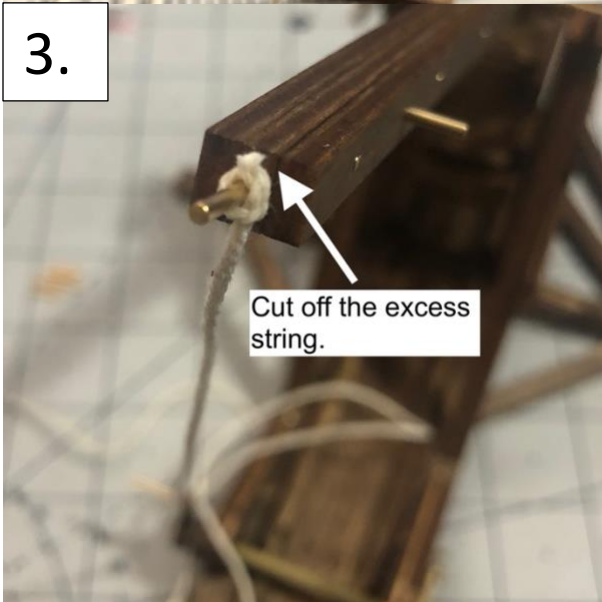
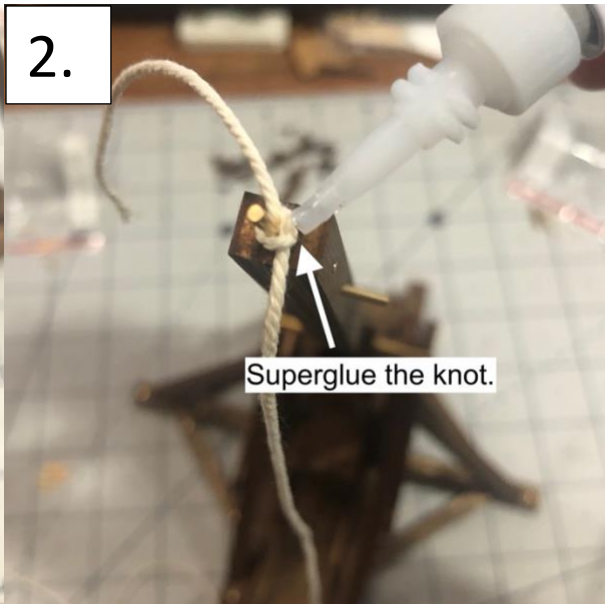
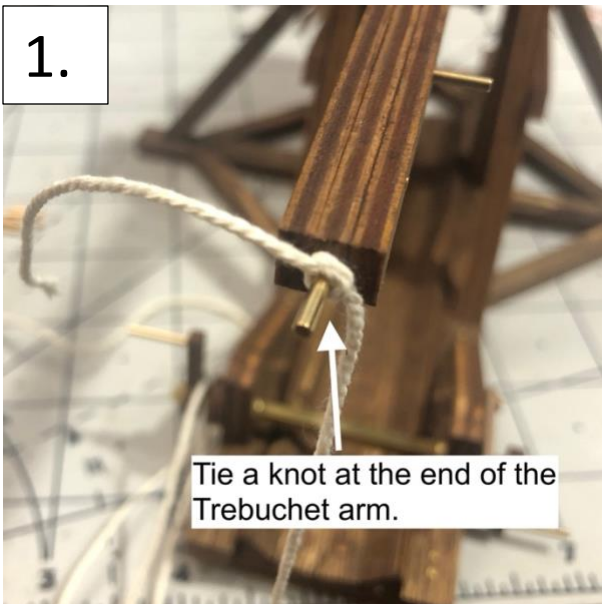
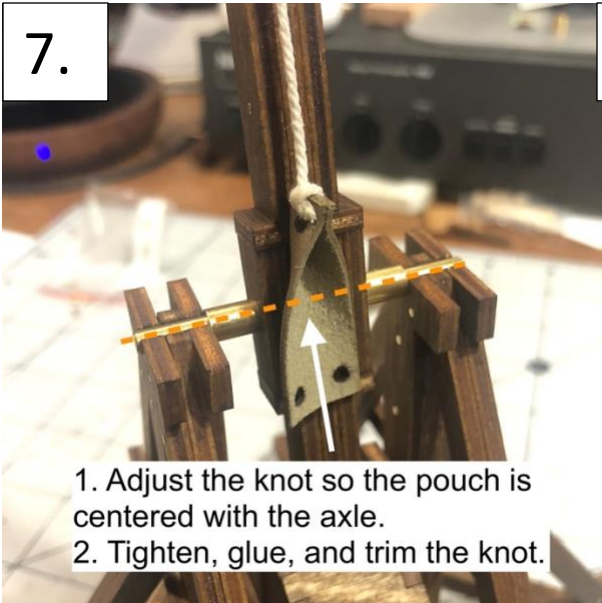


Fig. 67

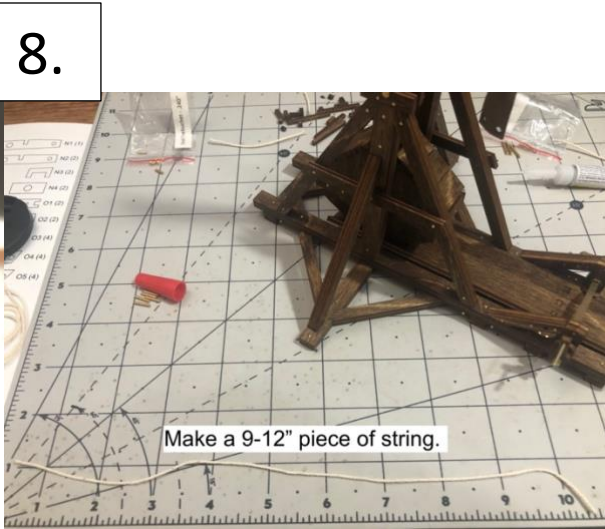
- Align parts exactly as shown in *Fig. 66*.
- The orange circles highlight the correct orientation. Make sure the .600" Pin is facing towards the front of the Trebuchet.
- Press the Counterweight and Arm onto the Trebuchet.
- *Fig. 67* shows the completed process.

Section 2 – String

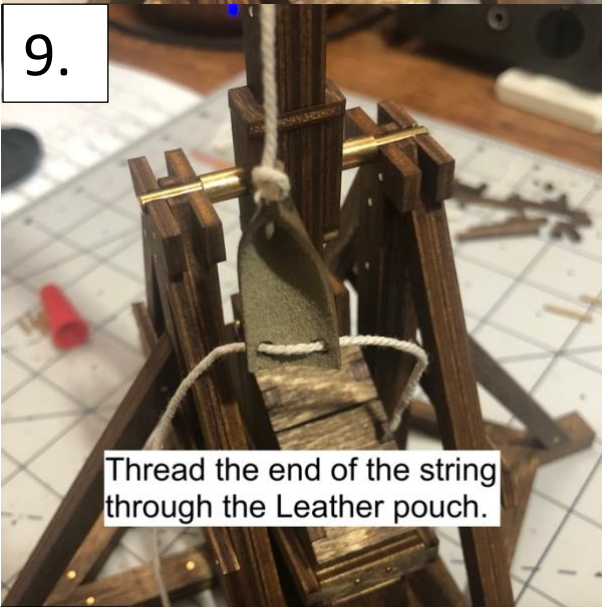




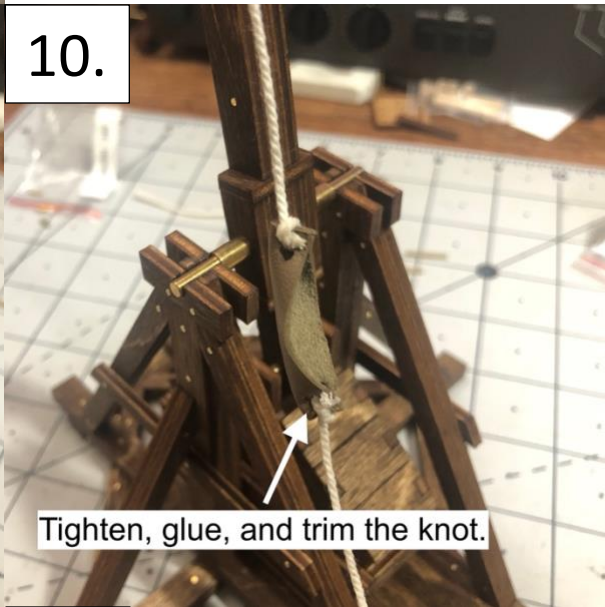
7.
1. Adjust the knot so the pouch is centered with the axle.
2. Tighten, glue, and trim the knot.



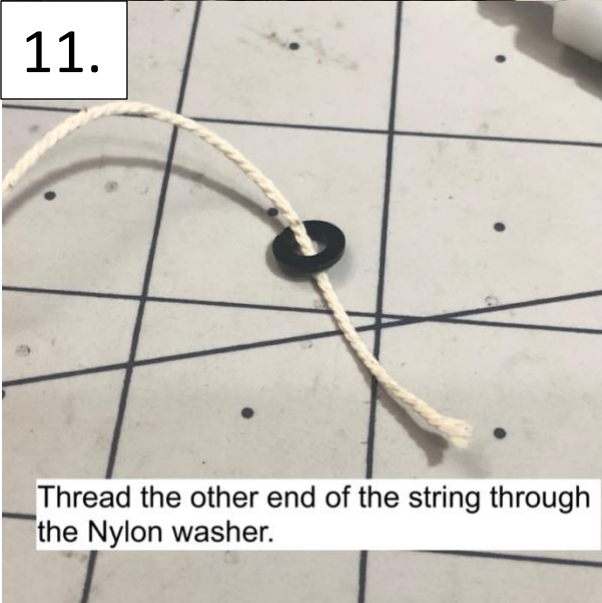
8.
Make a 9-12" piece of string.



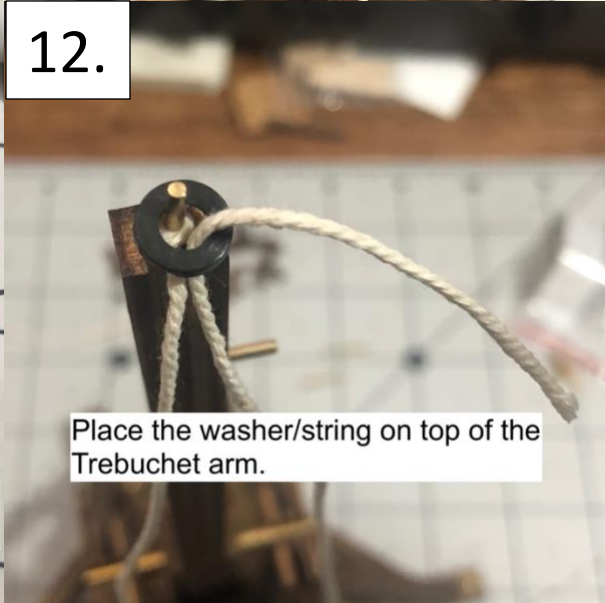
9.
Thread the end of the string through the Leather pouch.



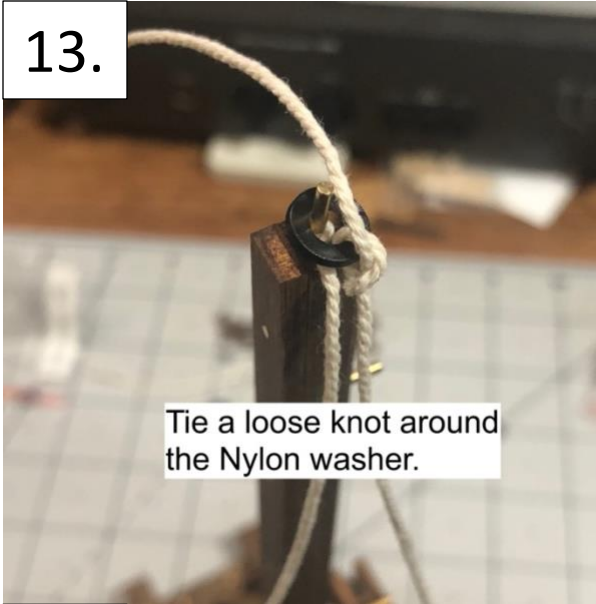
10.
Tighten, glue, and trim the knot.



11.
Thread the other end of the string through the Nylon washer.

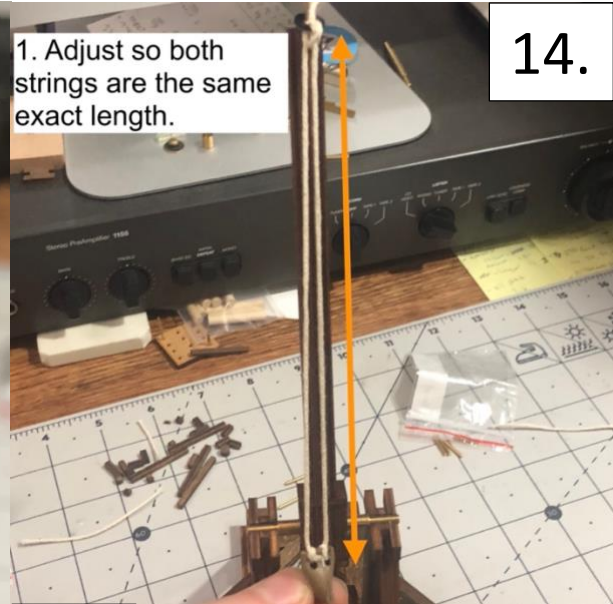


12.
Place the washer/string on top of the Trebuchet arm.



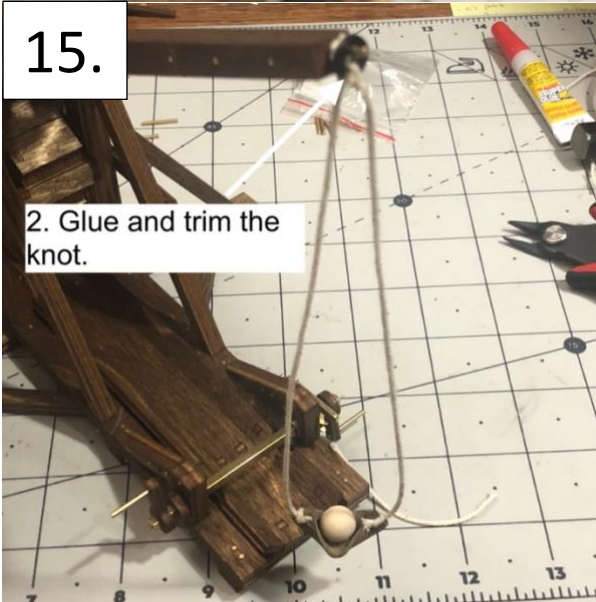
13.

Tie a loose knot around the Nylon washer.



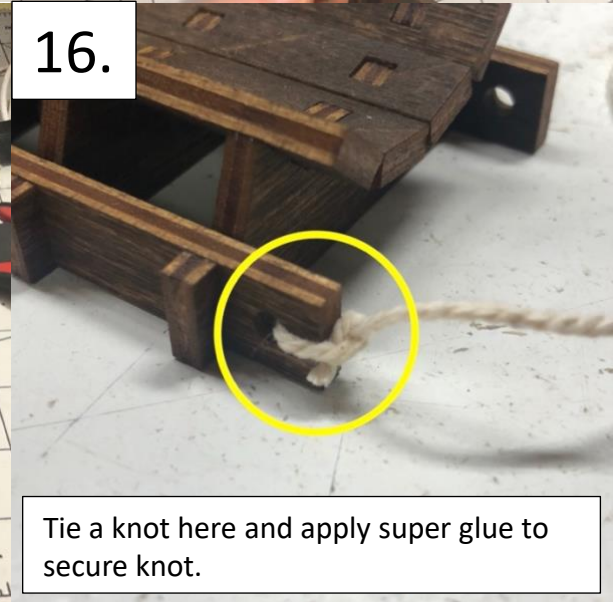
14.

1. Adjust so both strings are the same exact length.



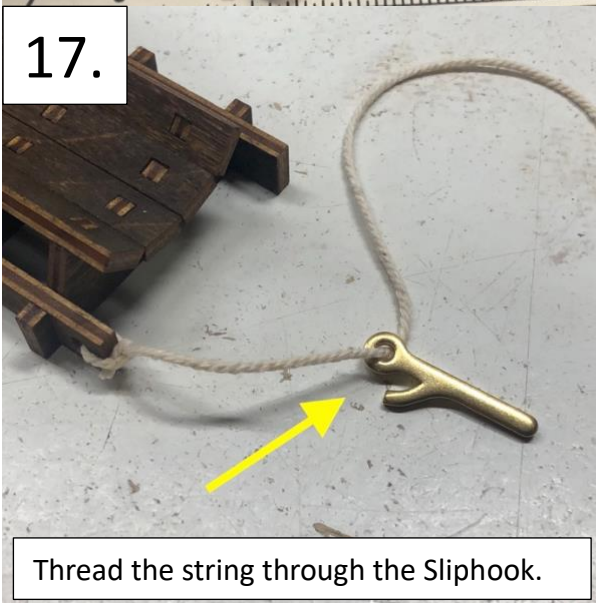
15.

2. Glue and trim the knot.



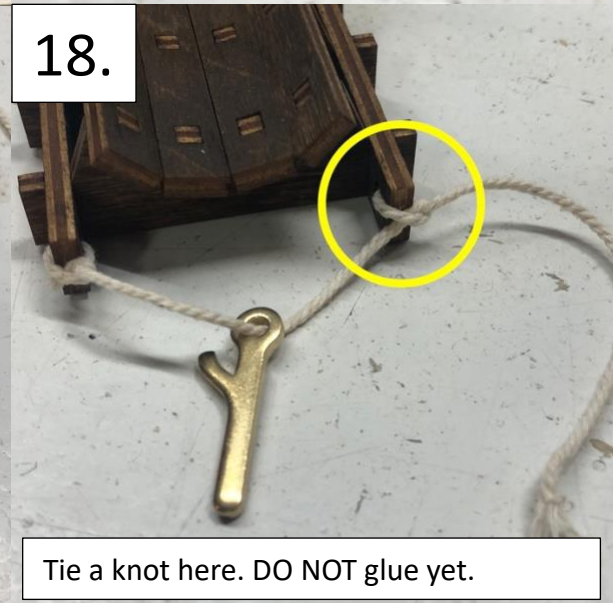
16.

Tie a knot here and apply super glue to secure knot.



17.

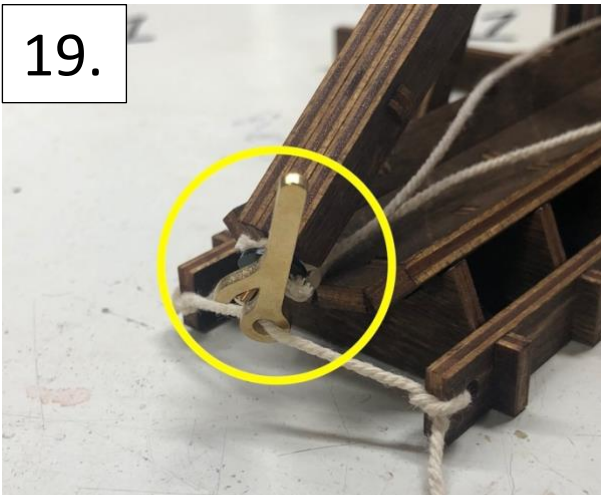
Thread the string through the Sliphook.



18.

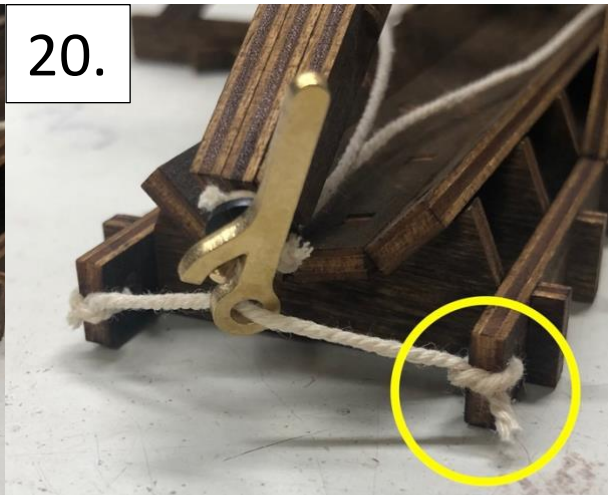
Tie a knot here. DO NOT glue yet.

19.



Adjust the knot so that the Sliphook can hold onto the Trebuchet arm.

20.



Apply superglue to the knot.

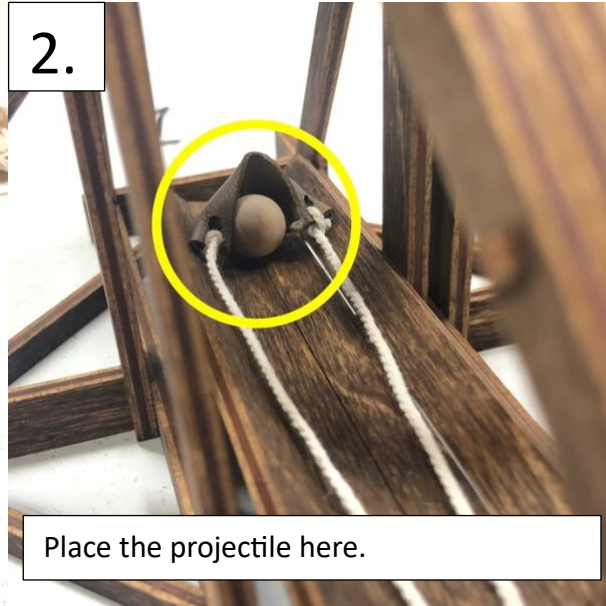
Section 3 – Operation

1.



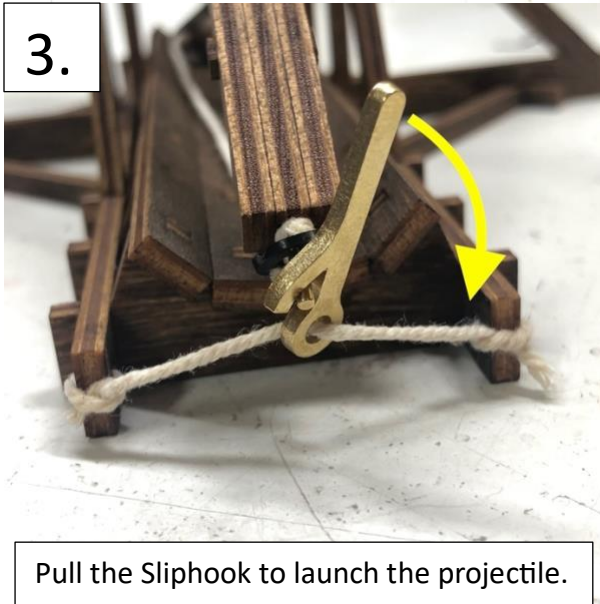
Lock the arm in the downward position.

2.



Place the projectile here.

3.



Pull the Sliphook to launch the projectile.