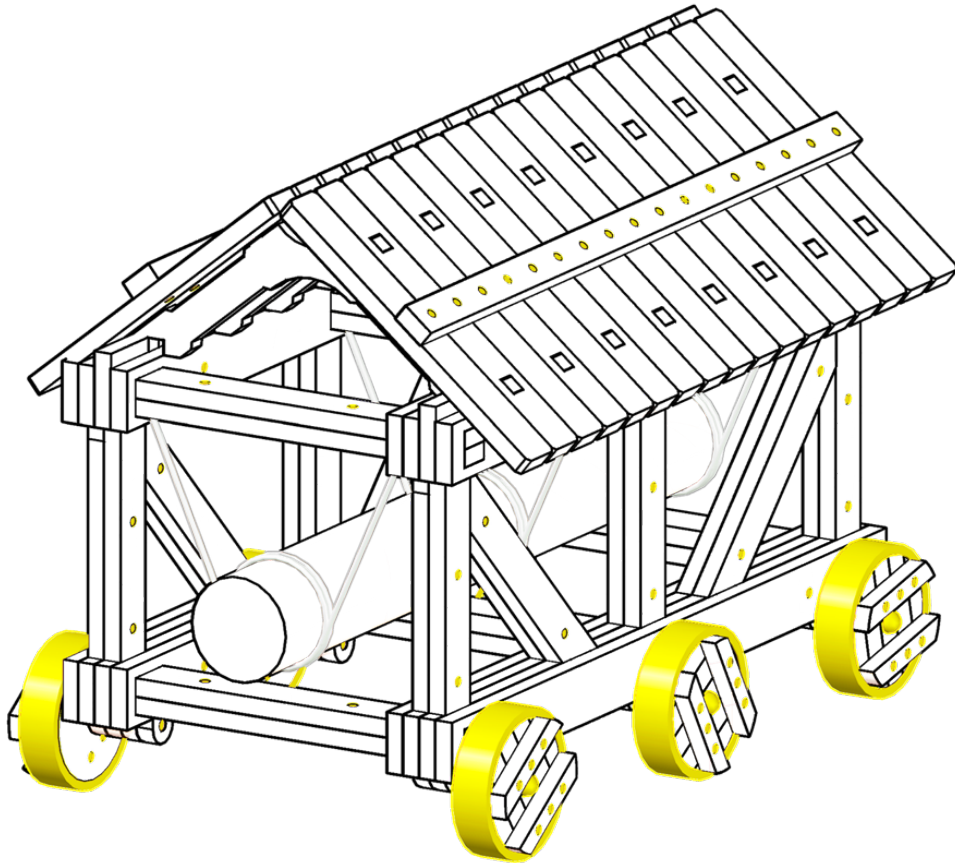


Battering Ram Instructions

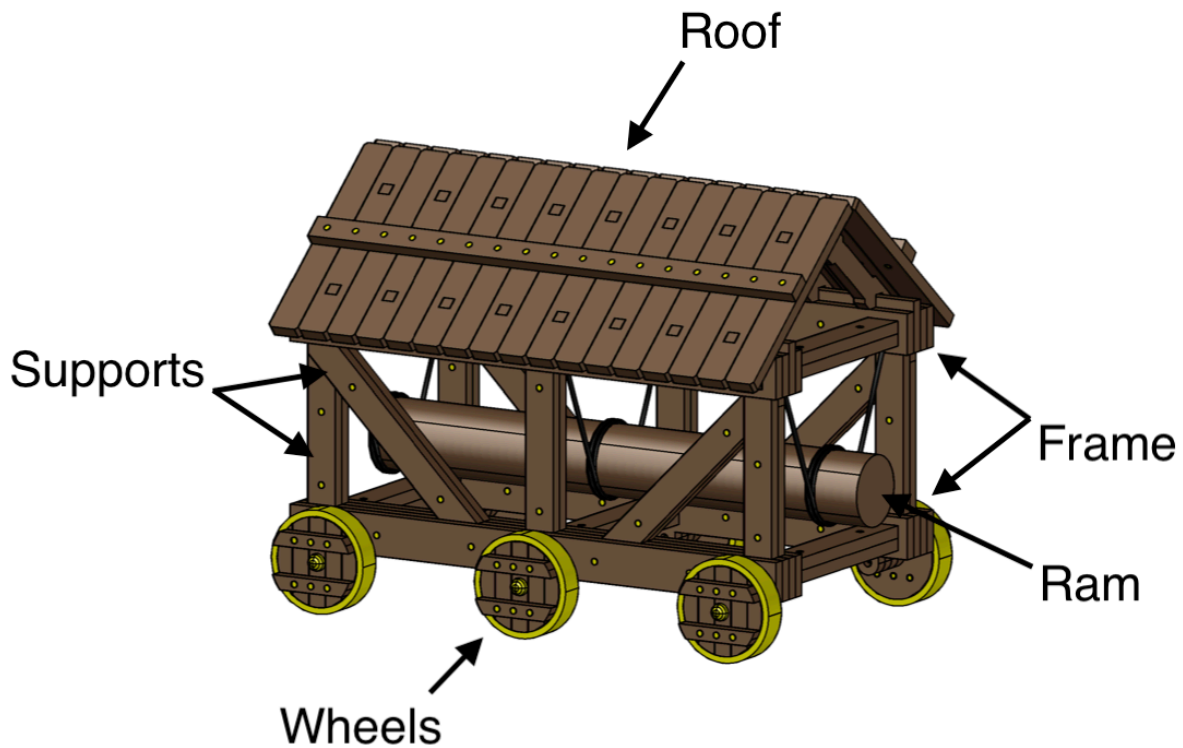


Required

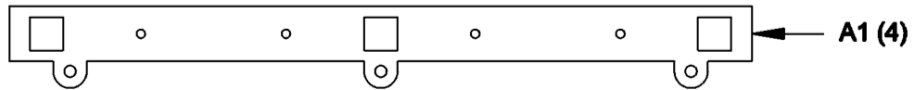
- Battering Ram kit v.1
- Scissors
- Hammer
- Superglue

Table of Contents

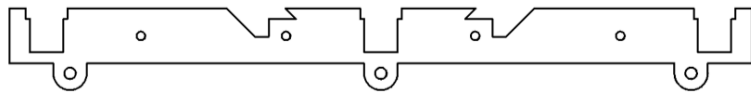
Section	Name	Est. Time	Page #
Section 1	Frame (?? min.)	.....	5
Section 2	Supports (?? min.)	.....	7
Section 3	Roof (?? min.)	.....	10
Section 4	Wheels (?? min.)	.....	18
Section 5	Assembly (?? min.)	.....	24
Section 6	Ram Assembly (?? min.)	.....	27
Section 7	???? (?? min.)	.....	32



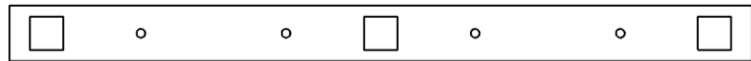
Battering Ram inventory list



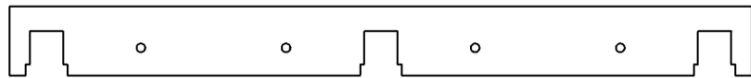
A1 (4)



A2 (4)



B1 (4)



B2 (2)



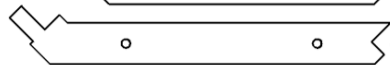
B3 (4)



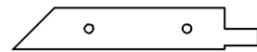
C1 (12)



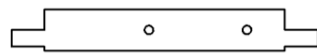
D1 (4)



D2 (4)



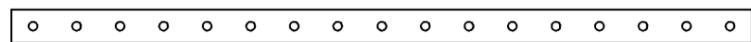
E1 (4)



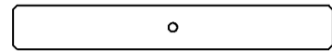
E2 (4)



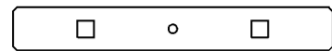
F1 (4)



G1 (2)




G2 (18)





G3 (16)





G4 (8)

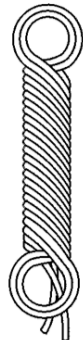
 .24" Pin (66)

 .36" Pin (72)

 .48" Pin (16)

 Large Nail (6)

 Brass Tire (6)



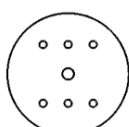
String (4ft.)

 H1 (12)

 H2 (12)

 H3 (12)

 H4 (6)

 H5 (6)

Tips Before Starting.

- Use a hammer to lightly tap brass pins in. (let the weight of the hammer do the work!)
- Remove any tabs that remain on the parts. These can get in the way and cause a tight fit.
- Brass nails and pins can scratch your table or workbench. Do not assemble on a nice table/bench.
- The edges of the wood may be sticky at first. This should go away with time. (Rubbing alcohol also helps)
- **Never** force two parts together if it seems to tight. Grab a file or sandpaper and **lightly** file/sand the part.

Section 1 – frame

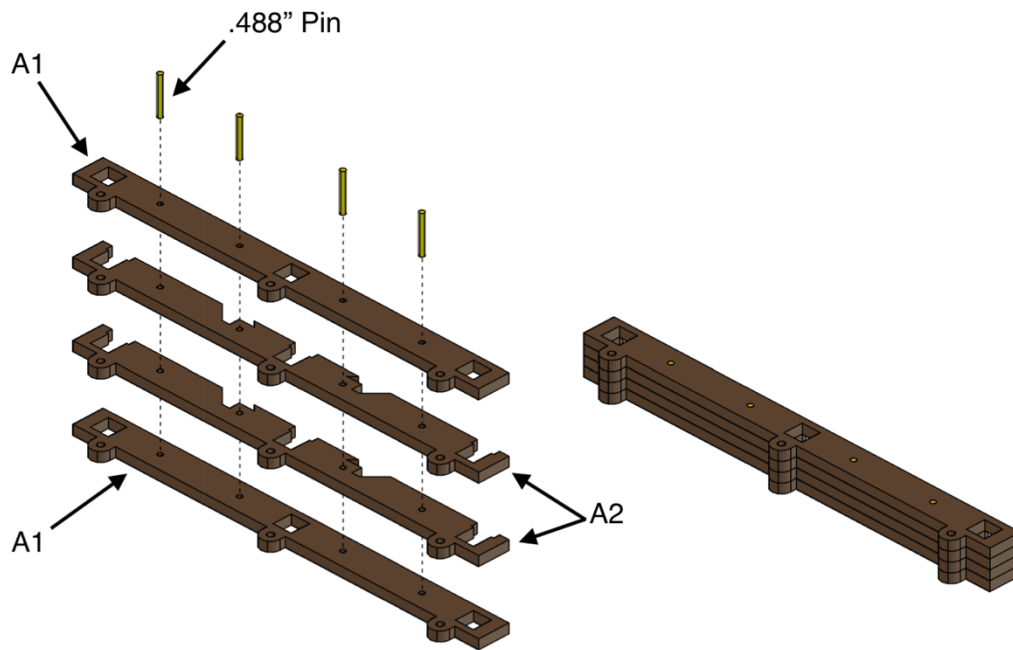


Fig. 1

Fig. 1

- Align Parts exactly as shown.
- Insert four .488" pins.
- The finished part is shown in Fig.1 (right)

x2

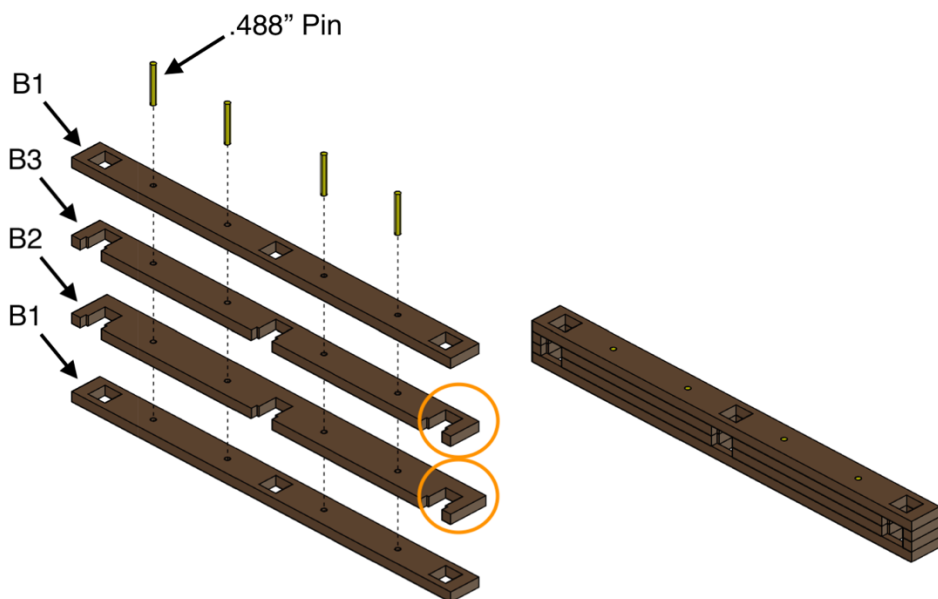


Fig. 2

Fig. 2

- Align Parts exactly as shown.
- Orange circles show that B2 pieces are taller than B3. Do not mix these up!
- The finished part is shown in Fig.2 (right)

x2

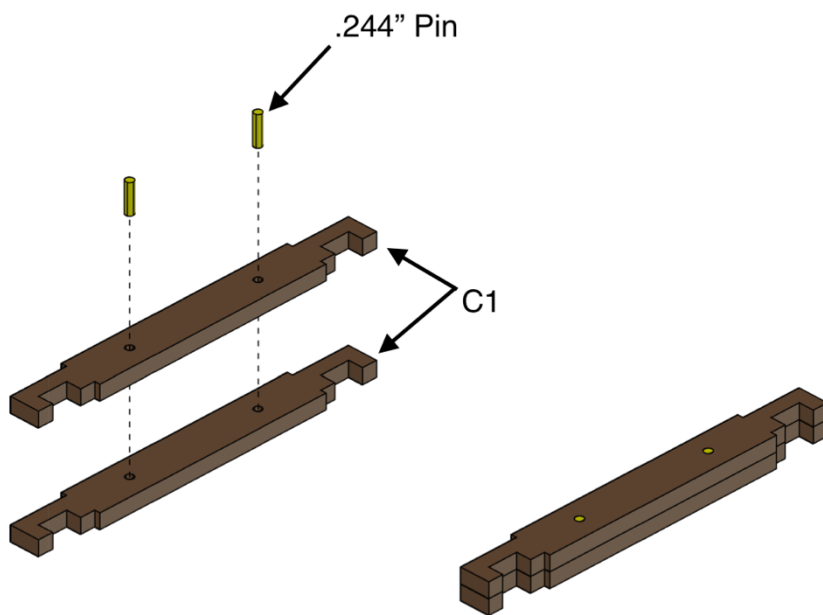


Fig. 3

Fig. 3

- Align Parts exactly as shown.
- Use two .244" pins.

x6

Section 2 - Supports

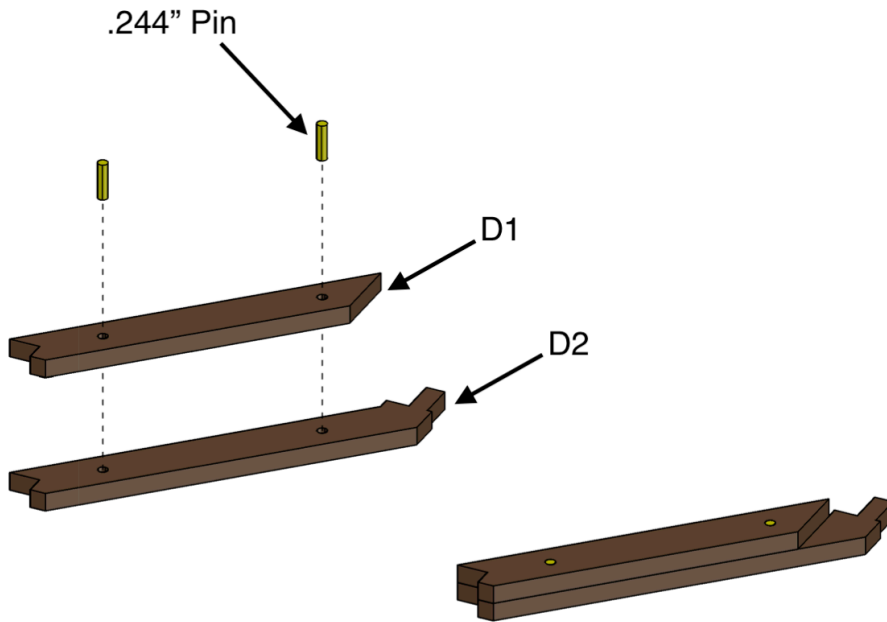


Fig. 4

Fig. 4

- Align parts exactly as shown.
- Insert two .244" pins.

x4

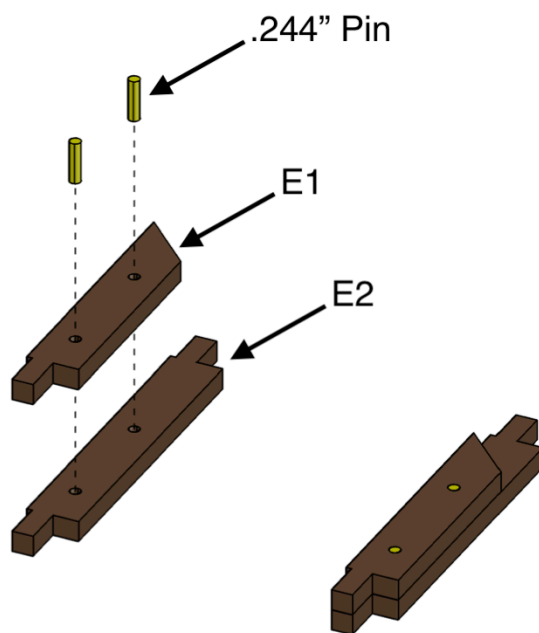


Fig. 5

Fig. 5

- Align parts exactly as shown.
- Insert two .244" pins.

x4

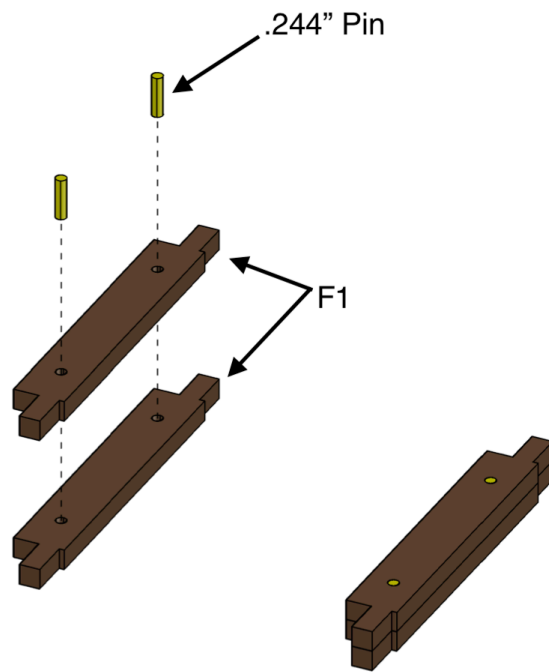


Fig. 6

Fig. 6

- Align parts exactly as shown.
- Insert two .244" pins.

X2

Section 3 – Roof

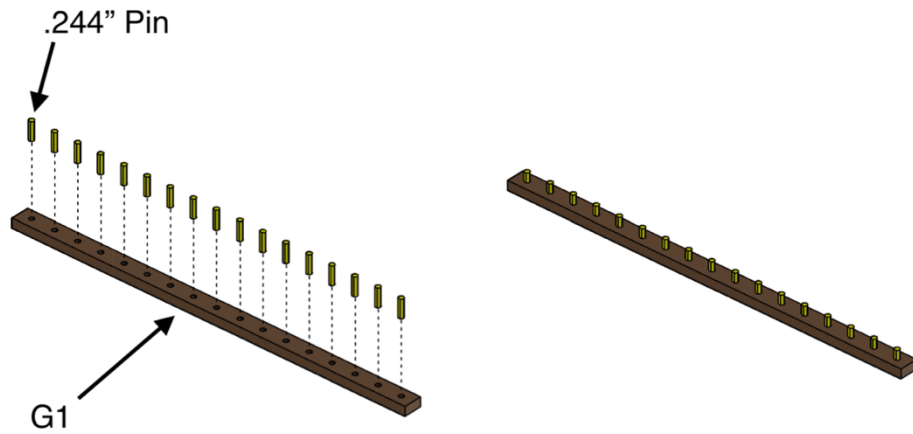


Fig. 7

Fig. 7

- Align parts exactly as shown.
- Insert seventeen .244" pins.

X2

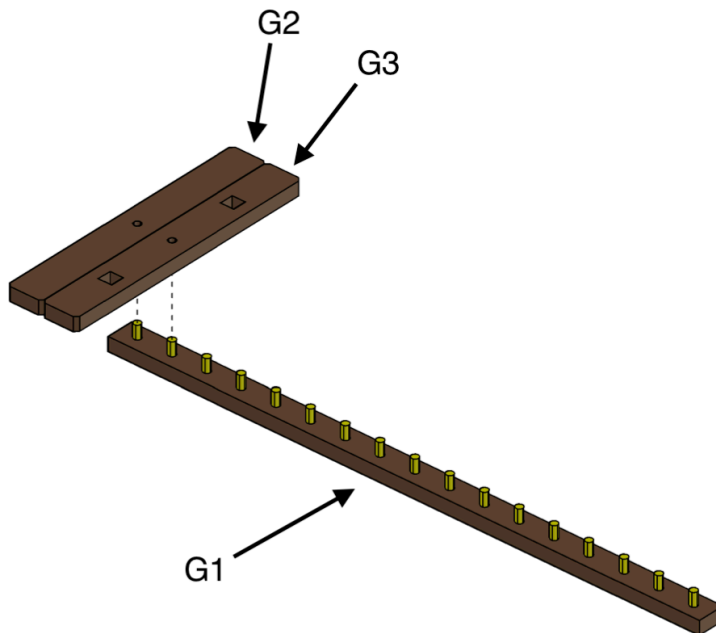


Fig. 8

Fig. 8

- Align parts exactly as shown.
- Start by inserting the G2 piece on the end of G1.
- Next add a G3 piece.

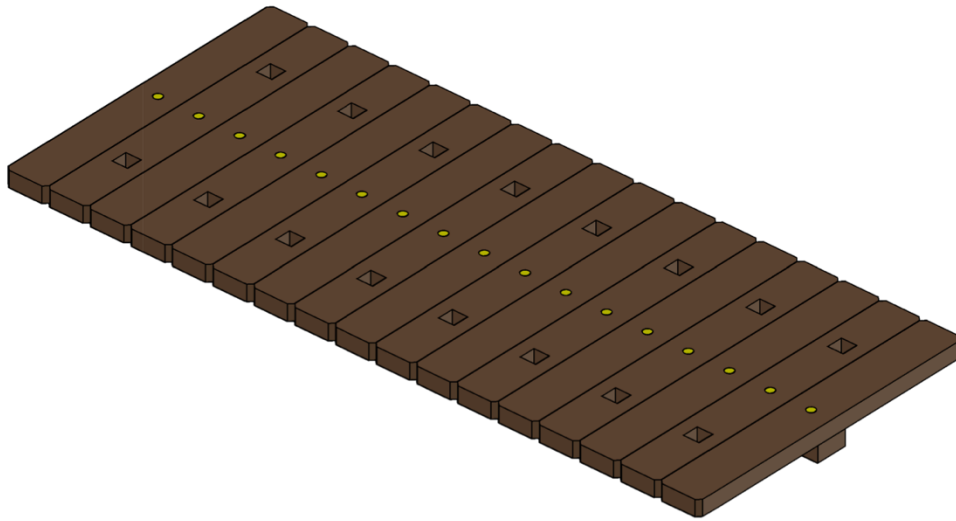


Fig. 9

- Alternate G2 and G3 pieces.
- The finished part should look identical to Fig. 9.

X2

Fig. 9

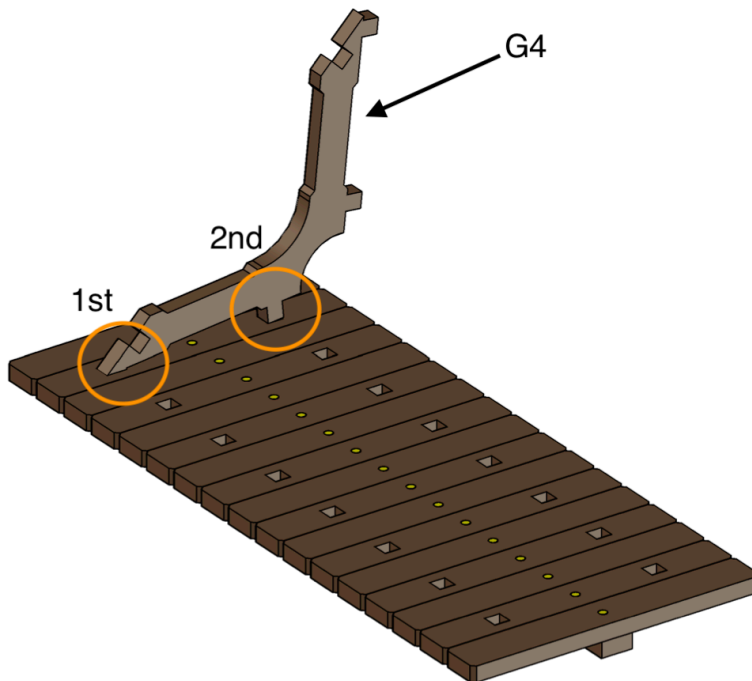


Fig. 10

- Align parts exactly as shown.
- Insert the bottom part of G4 first.

Fig. 10

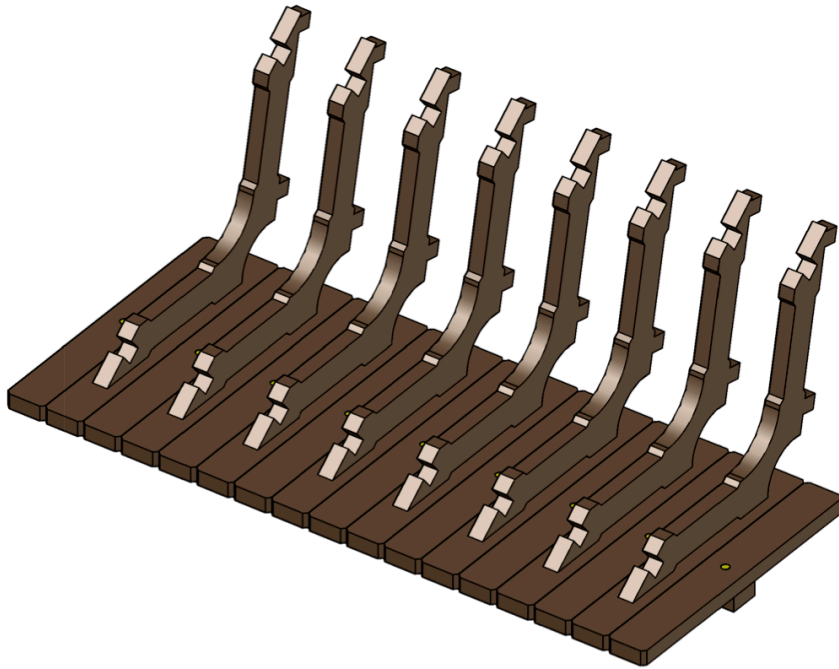


Fig. 11

Fig. 11

- Insert the rest of the G4 pieces.
- Make sure each G4 piece is seating flush with the G2/G3 pieces.

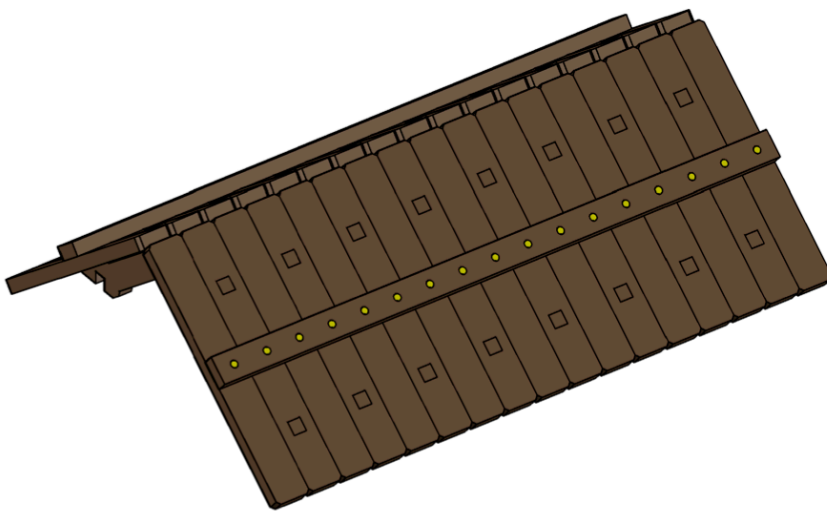


Fig. 12

Fig. 12

- Snap the other roof section together.
- Fig. 12 shows the completed roof.

Section 4 – Wheels

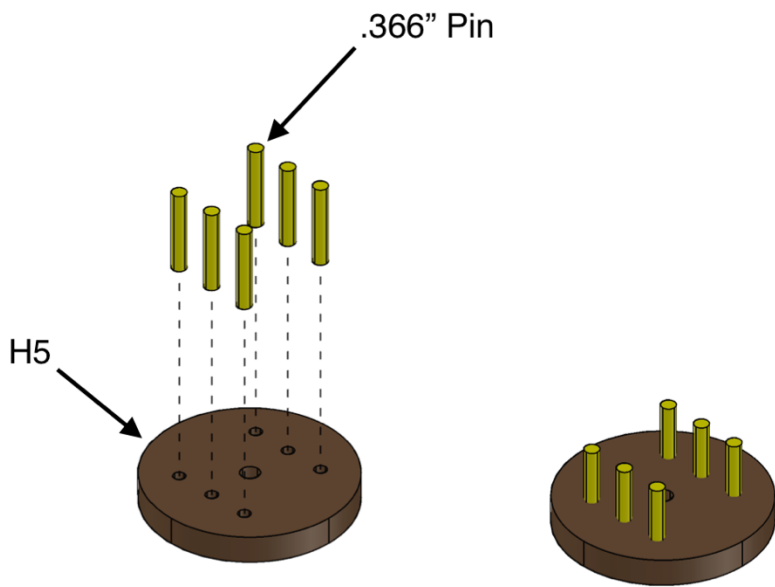


Fig. 13

- Align parts exactly as shown.
- Insert six .366" pins.

x6

Fig. 13

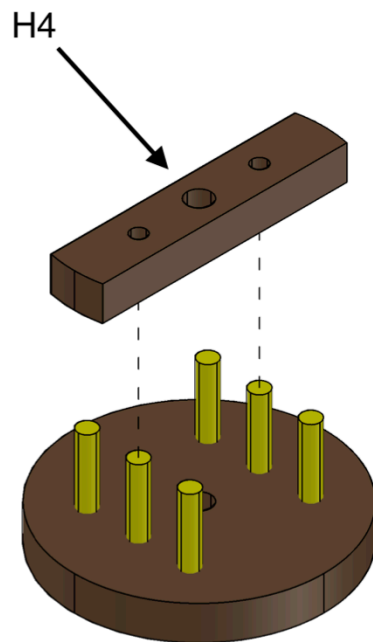


Fig. 14

- Align parts exactly as shown.
- Push H4 into place.

x6

Fig. 14

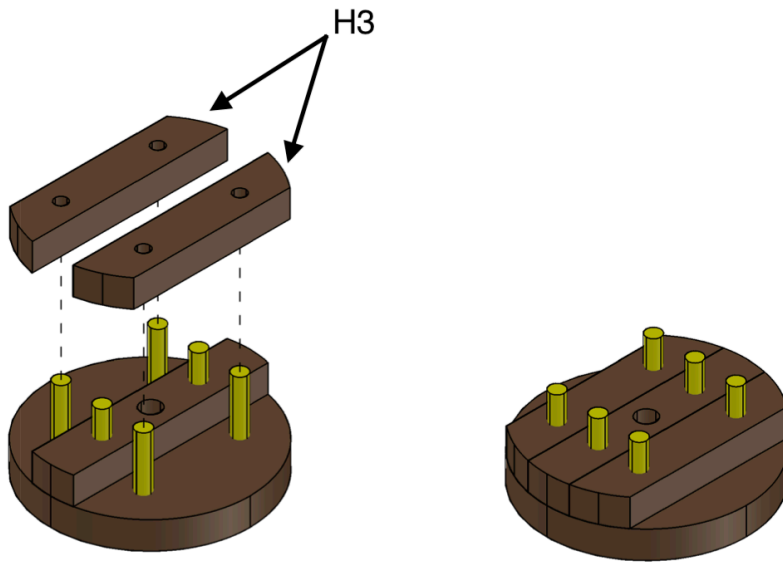


Fig. 15

Fig. 15

- Align parts exactly as shown.
- Push two H3 pieces onto wheel.

x6

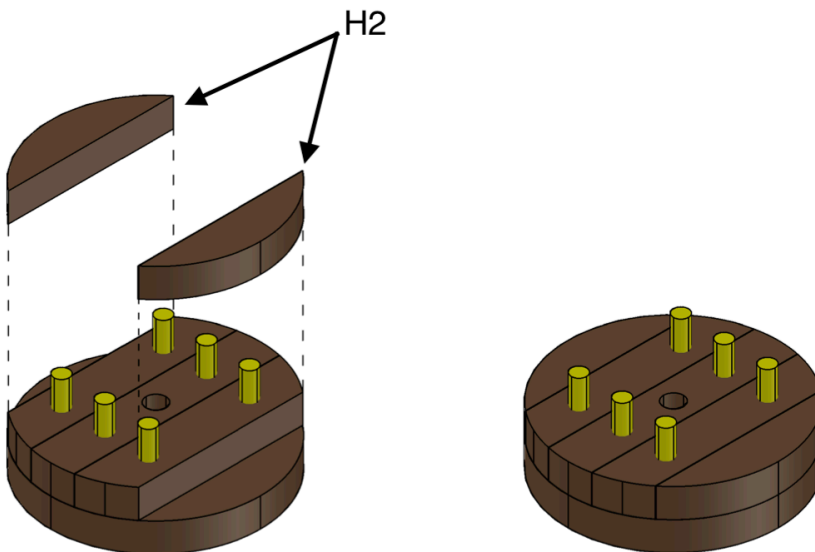


Fig. 16

Fig. 16

- Align parts exactly as shown.
- Place two H2 pieces on wheel.

x6

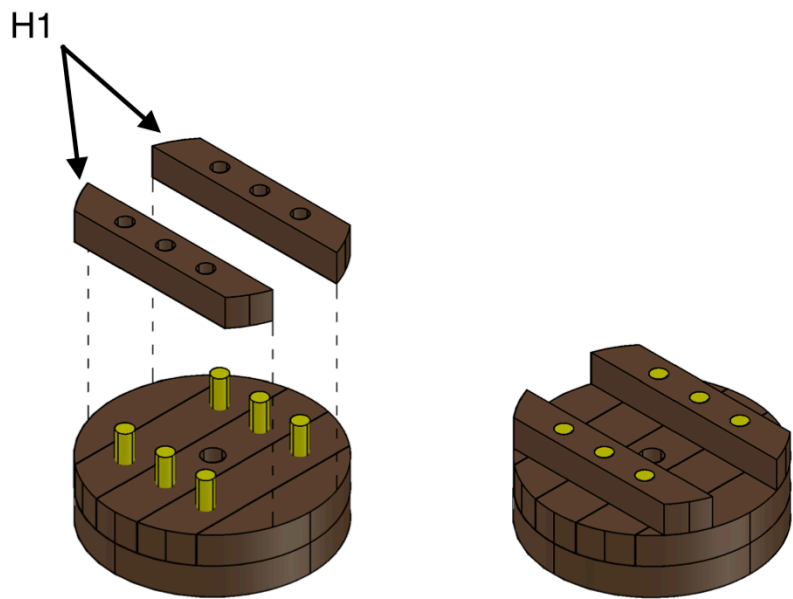


Fig. 17

Fig. 17

- Align parts exactly as shown.
- Push two H1 pieces onto wheel.

x6

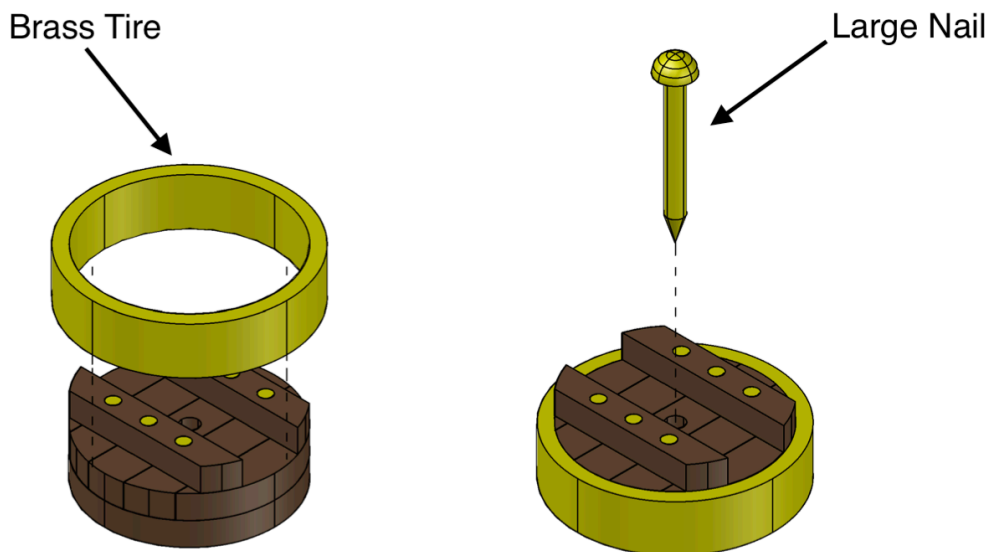


Fig. 18

Fig. 18

- Push Brass tire onto wheel.
- Fig. 18 (right) shows completed wheel.

Section 5 - Assembly

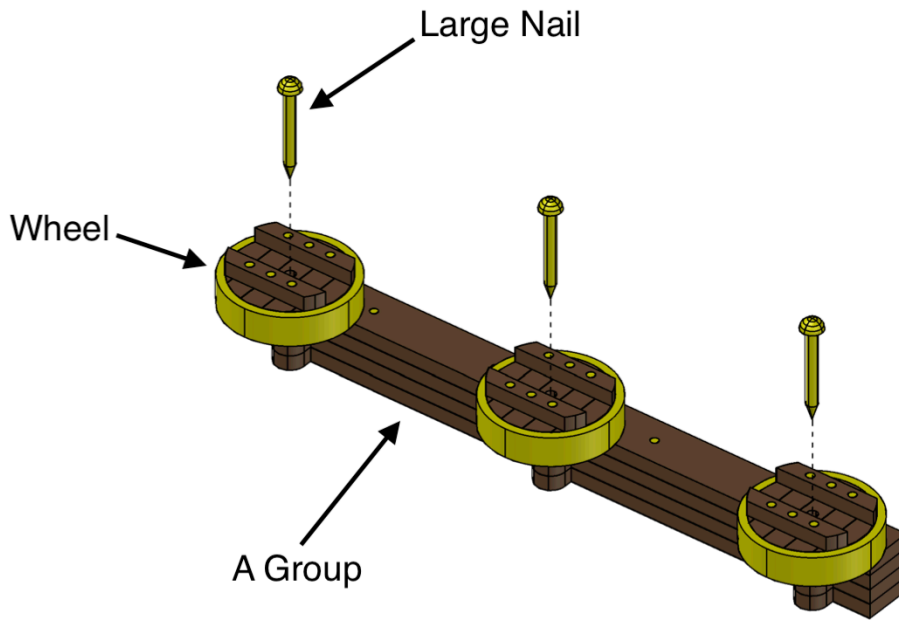


Fig. 19

Fig. 19

- Align parts exactly as shown.
- Insert the large nail through the wheel.
- Push nail into the A group.
- If needed, use a hammer to lightly tap nail in place.

X2

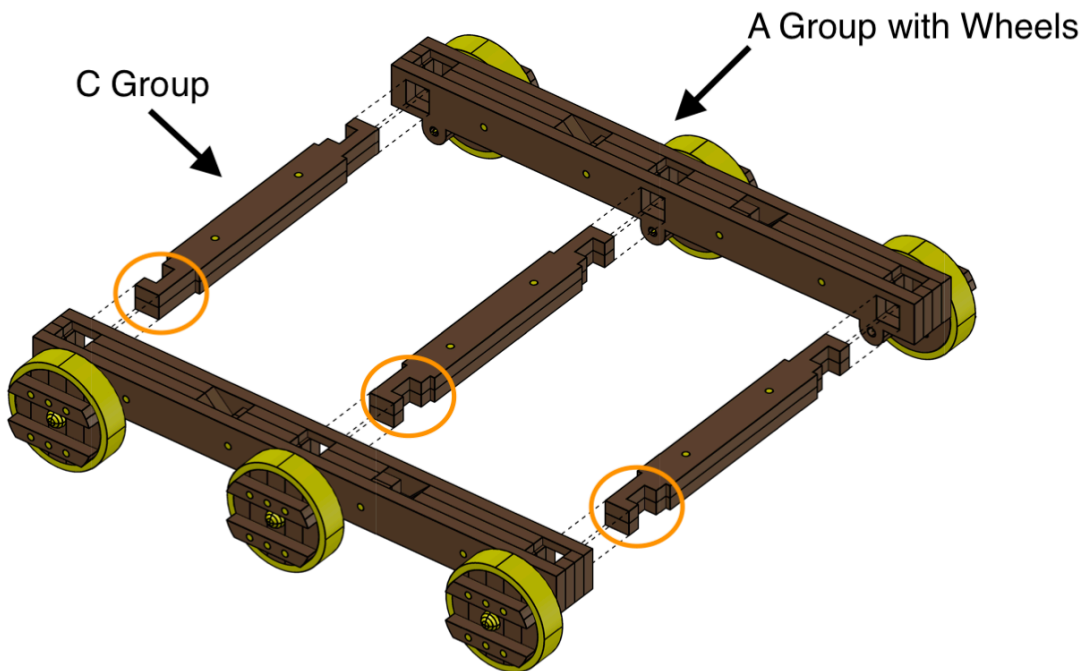


Fig. 20

Fig. 20

- Align parts exactly as shown.
- Each C Group needs to be aligned EXACTLY as shown in Fig. 20.
- Insert three C Groups into the A group parts.

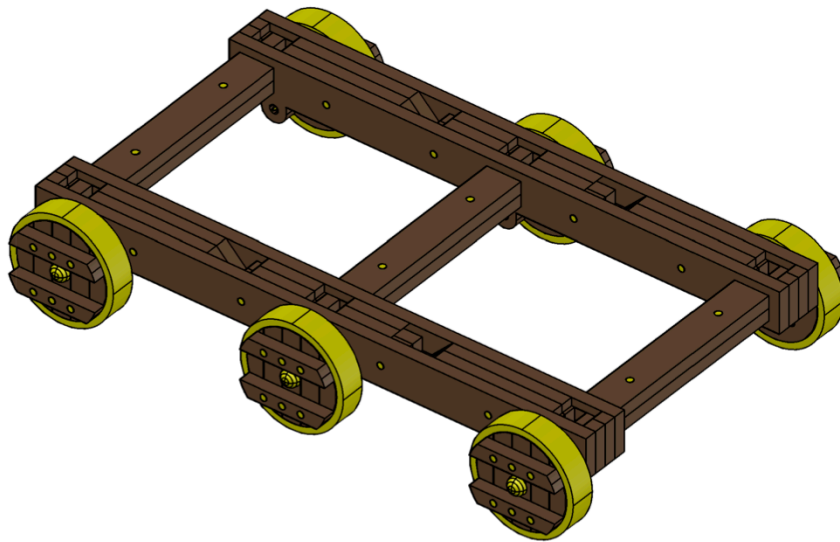


Fig. 21

Fig. 21

- Fig. 21 shows the completed bottom half.

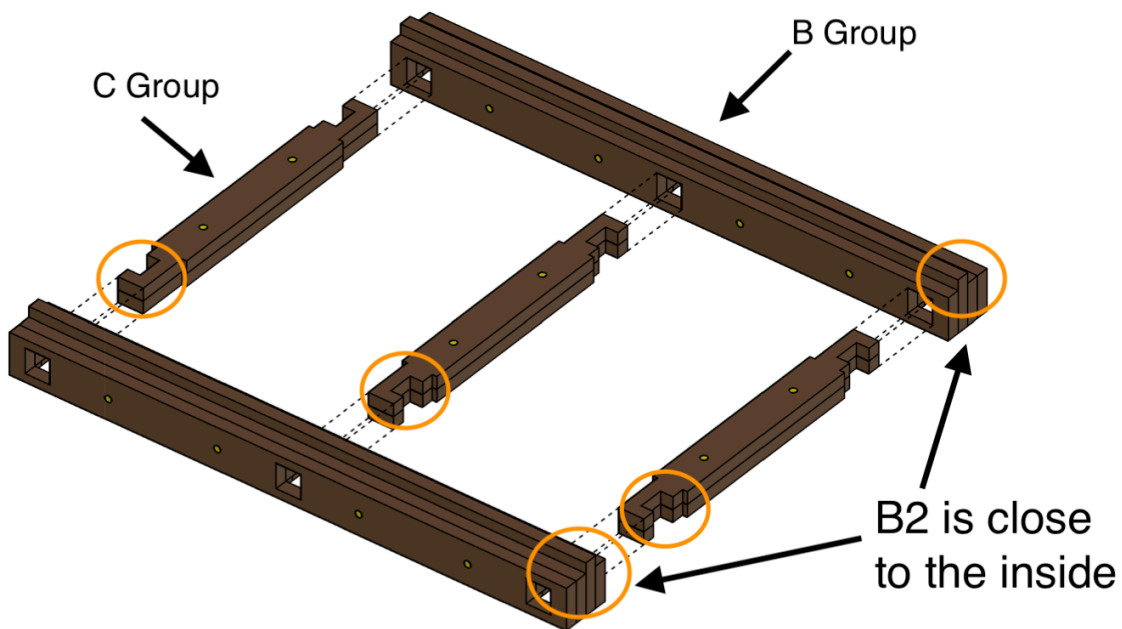


Fig. 22

Fig. 22

- Align parts exactly as shown.
- Each C Group needs to be aligned EXACTLY as shown in Fig. 22.
- Orange circles show correct orientation of B Groups.

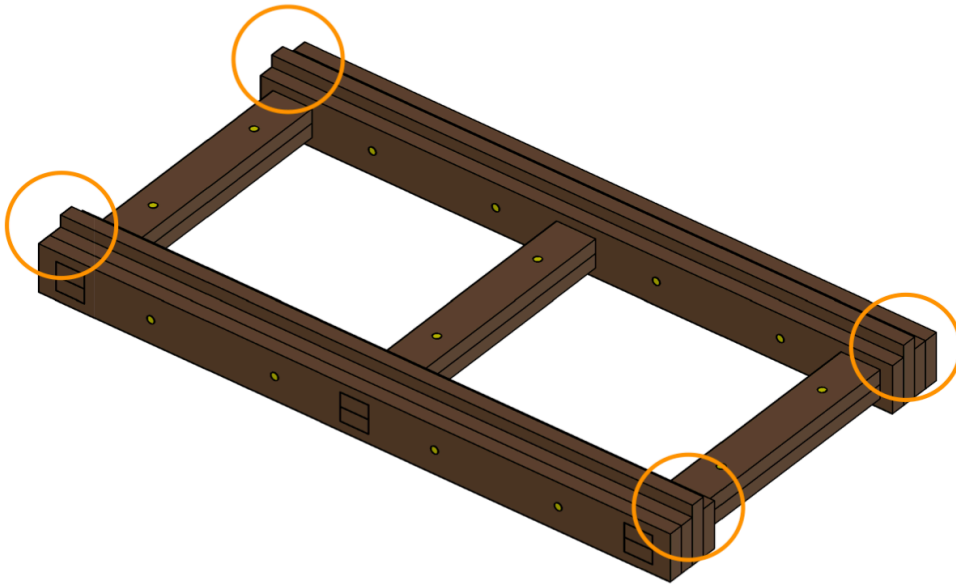


Fig. 23

Fig. 23

- After checking all parts for correct orientation, continue to Insert the parts together.
- Fig. 23 shows the correct top half.

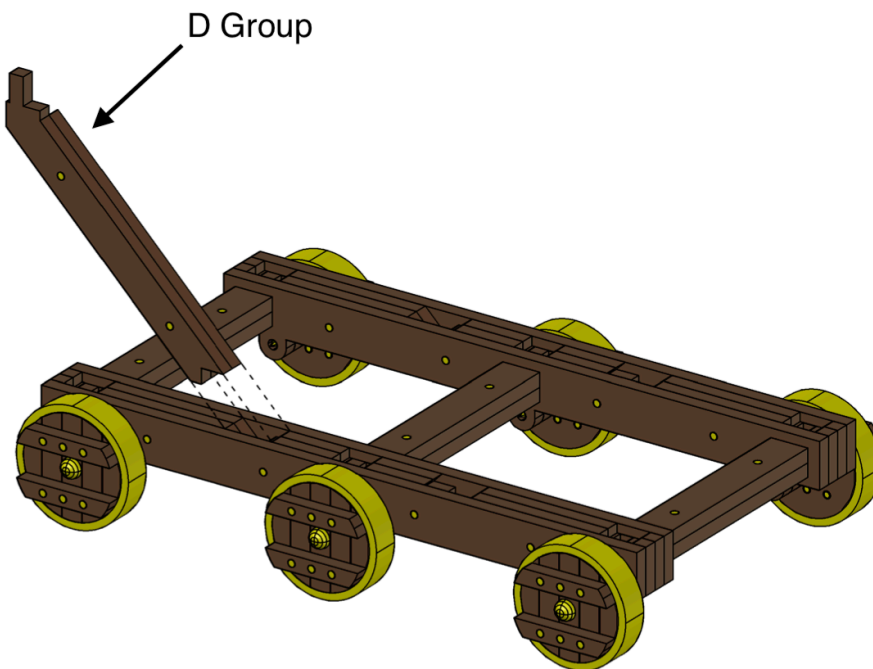


Fig. 24

Fig. 24

- Align parts exactly as shown.
- Slide D group into place.

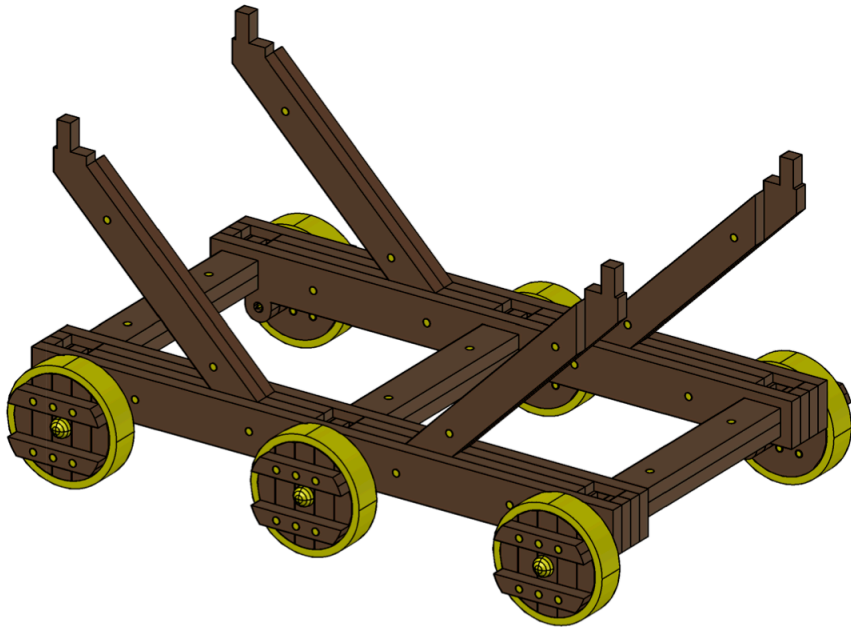


Fig. 25

- Repeat the last step for the remaining D group pieces.

Fig. 25

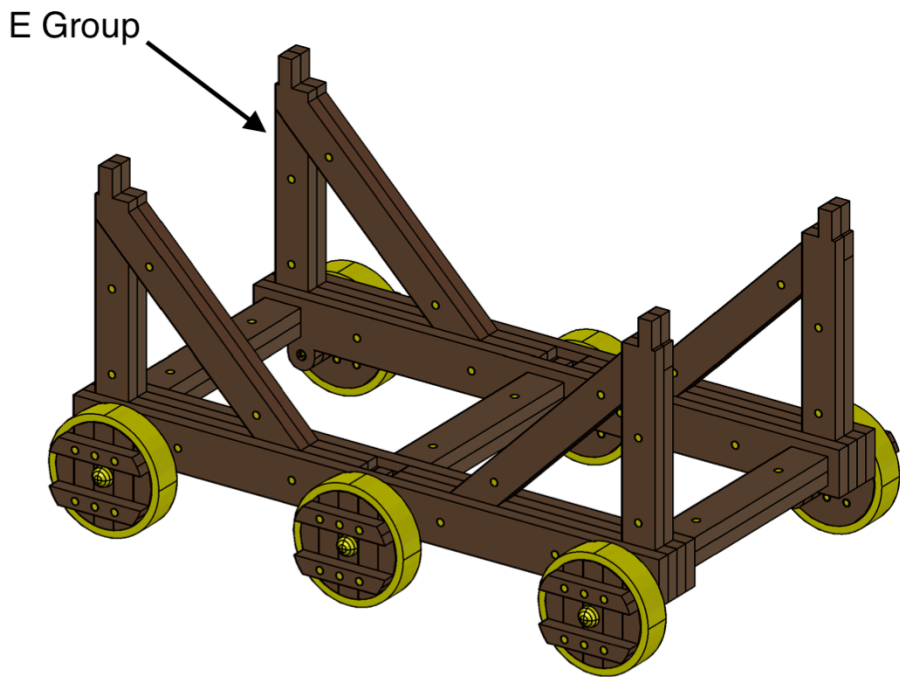


Fig. 26

- Insert the four E groups into place.

Fig. 26

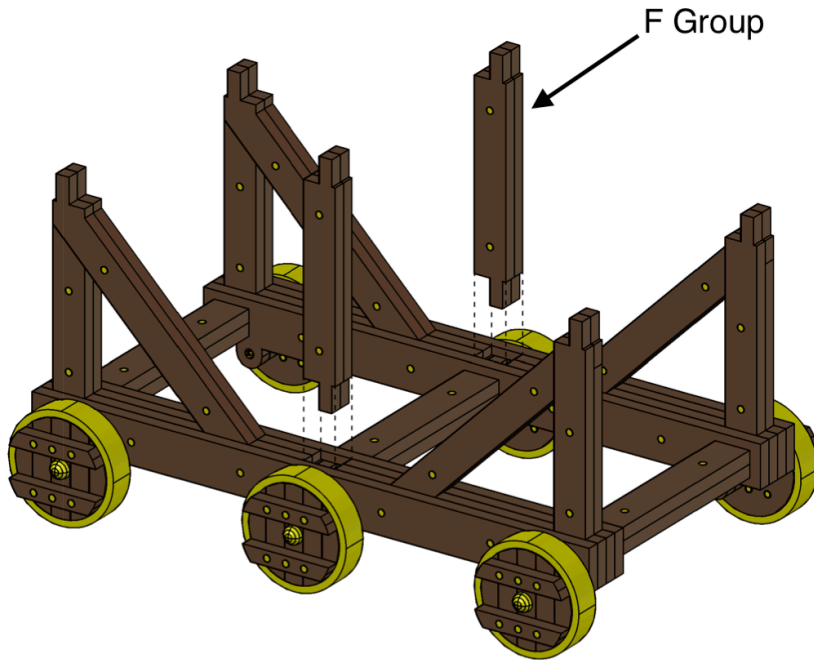


Fig. 27

Fig. 27

- Align parts exactly as shown.
- Insert the F group into place.

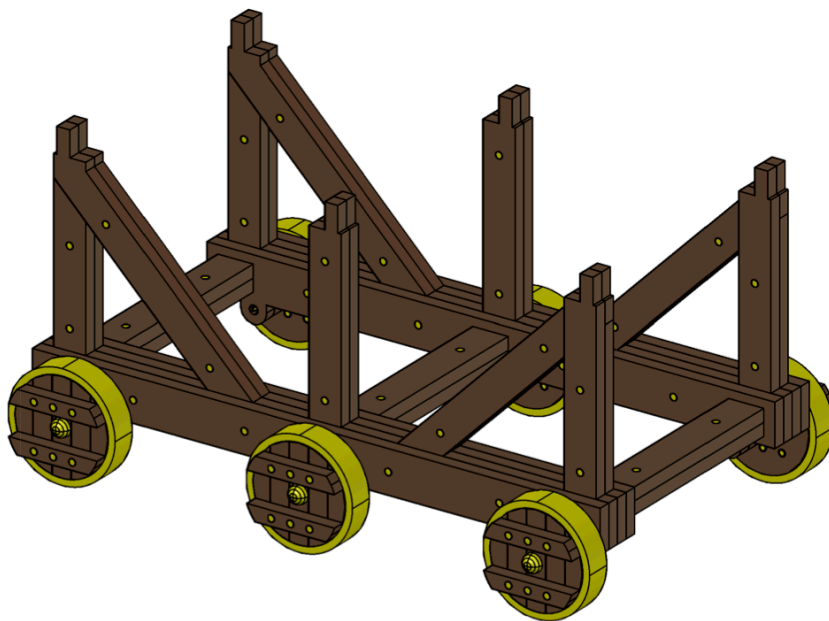


Fig. 28

Fig. 28

- Fig. 28 Shows the above steps completed.

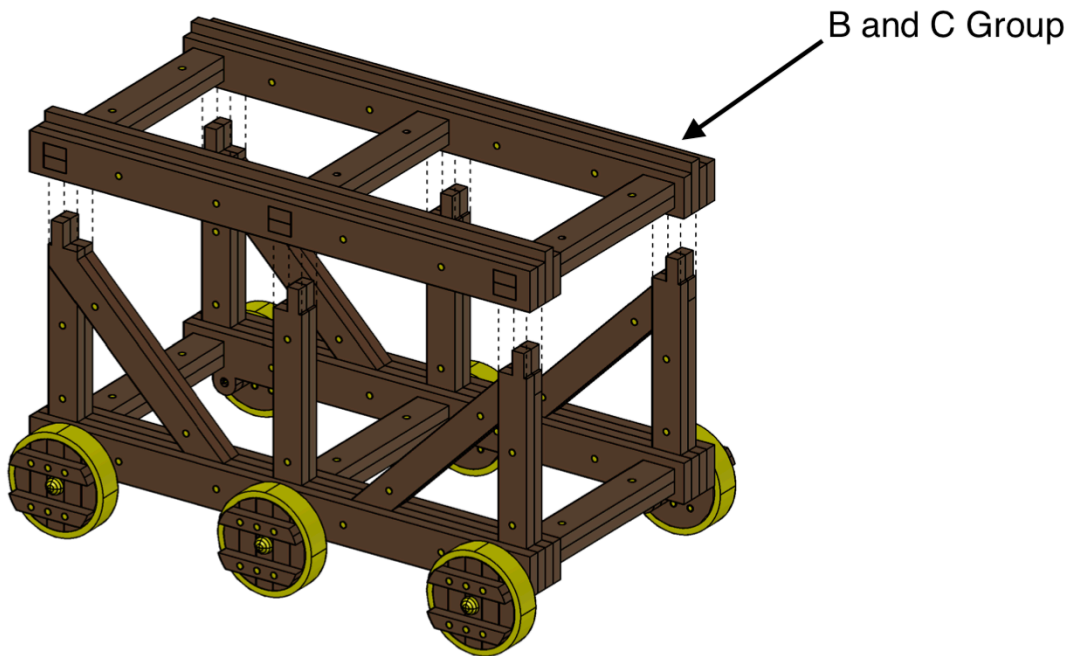


Fig. 29

- Align parts exactly as shown.
- Place the top half onto the support pieces.
- Wiggle and adjust the pieces if needed.

Fig. 29

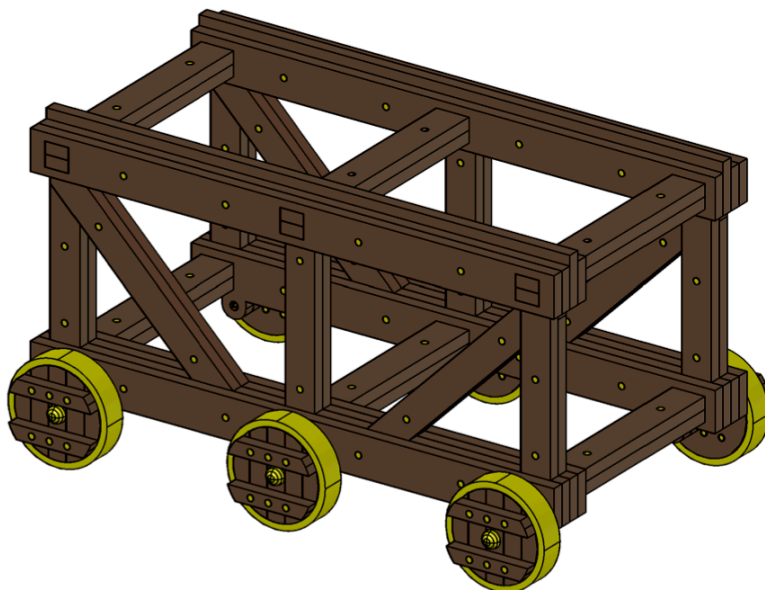


Fig. 30

- Fig. 30 Shows the above steps completed.

Fig. 30

Section 6 – Ram Rod Assembly

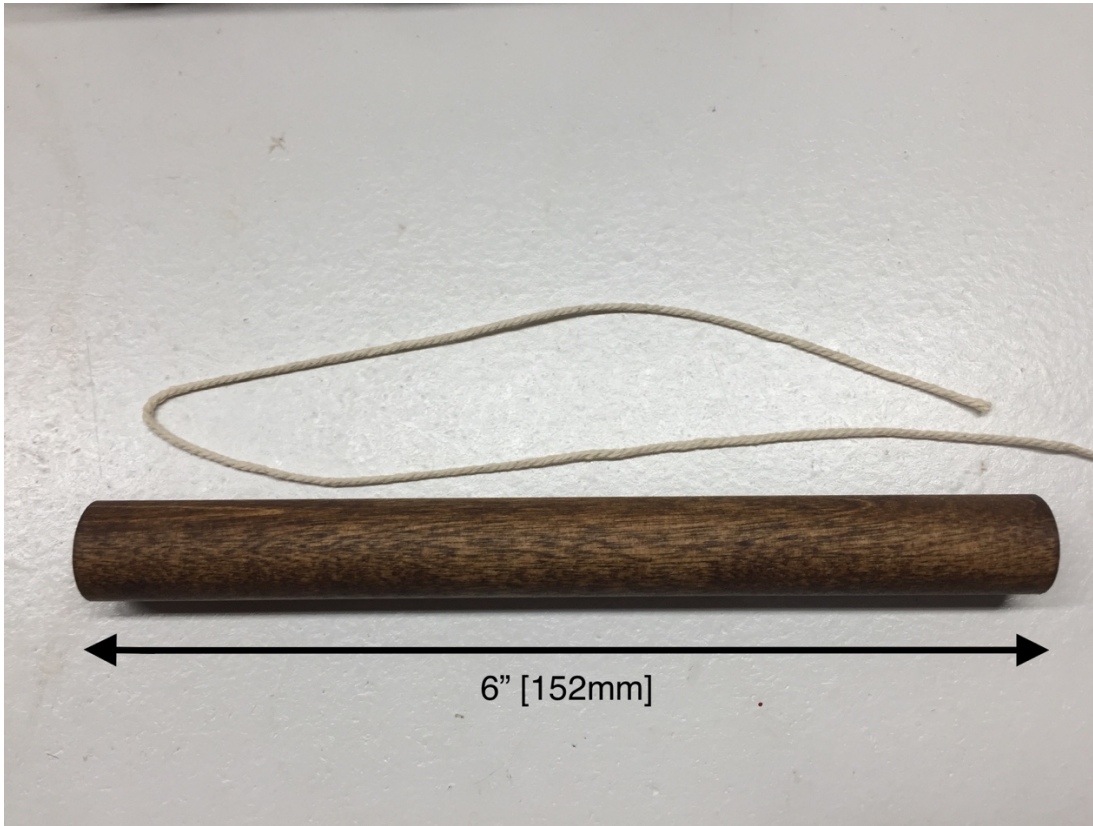


Fig. 31

Fig. 31

- Measure and cut at **least 12"** of string. (14" is ideal)
- If needed, use the 6" Ram Rod as reference.



Fig. 32

Fig. 32

- Cut two more identical pieces. (total of 3)

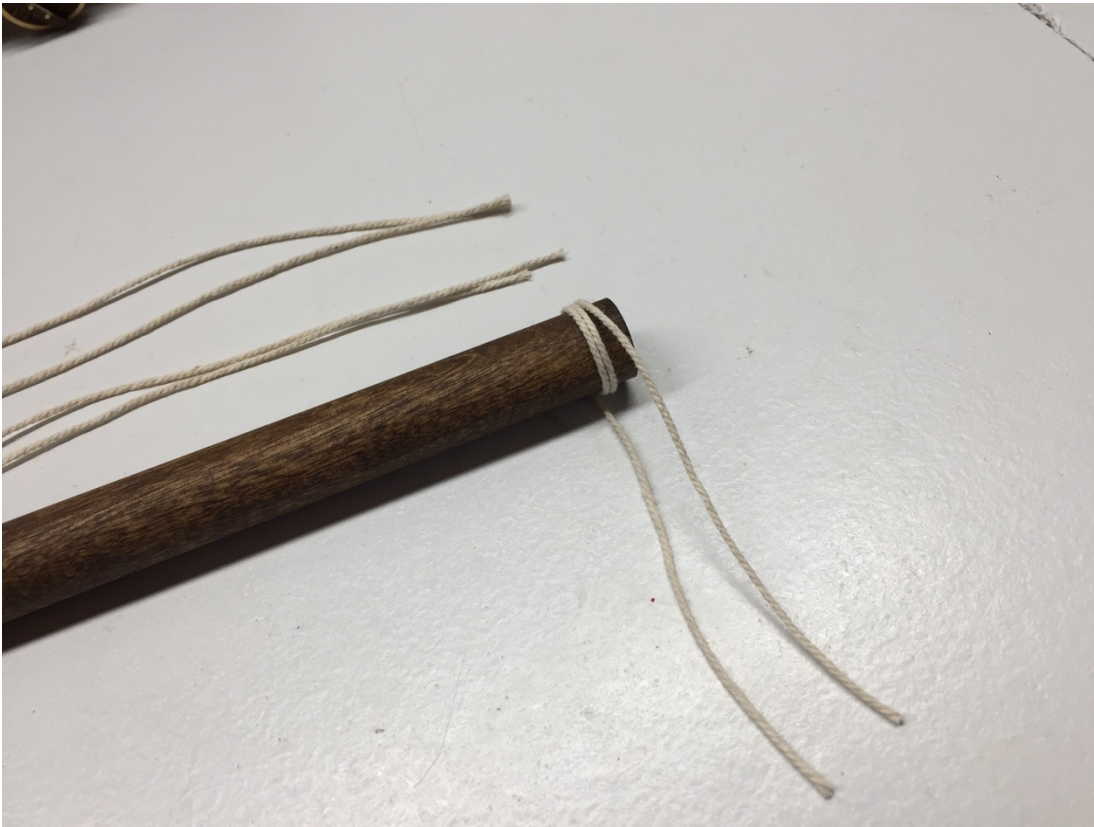


Fig. 33

- loop a piece of string around the end of the ram rod.
- Loop the string no more than twice around. (see Fig. 33)
- The two pieces of excess string needs to be equal in length.

Fig. 33

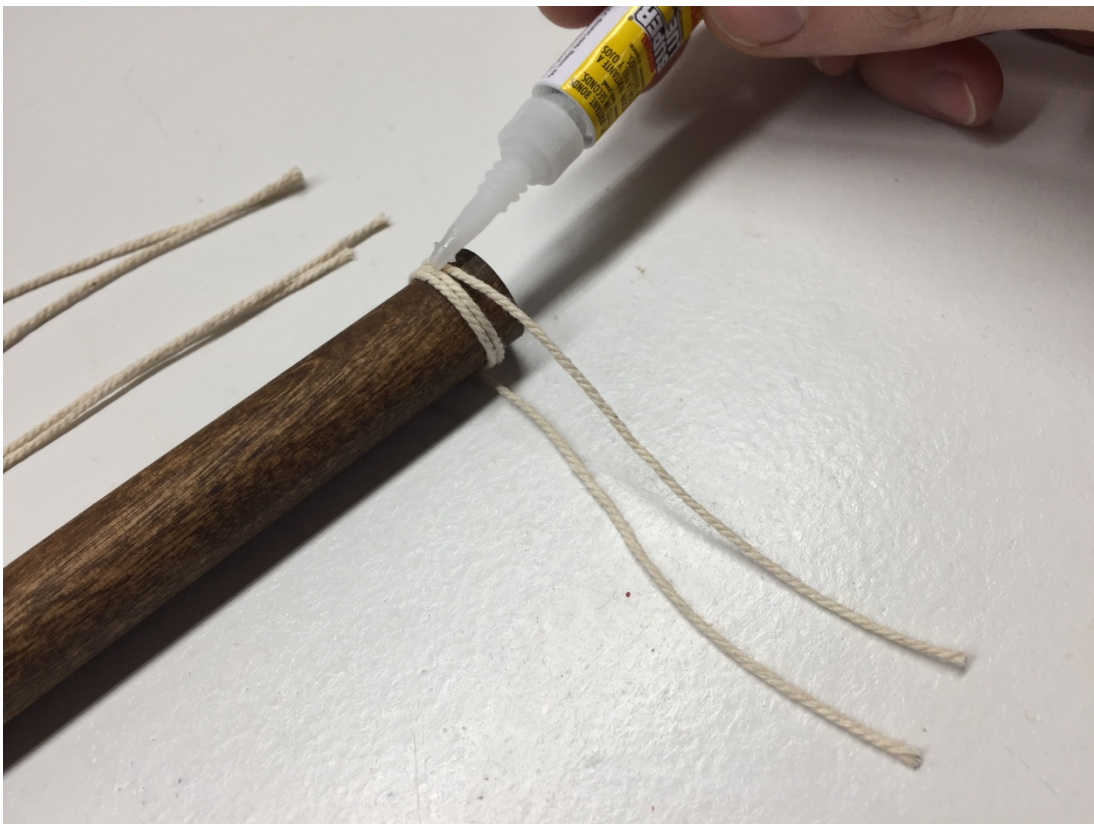


Fig. 34

- To fix the string in place, Superglue one end.

Fig. 34

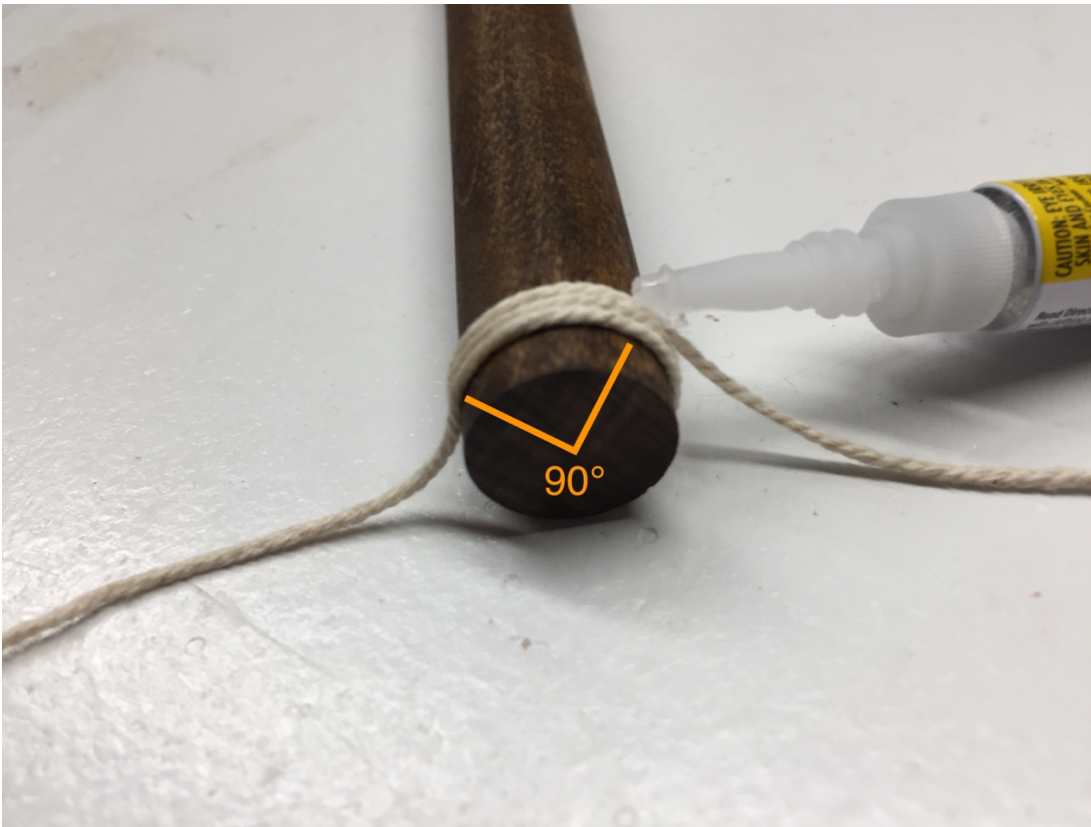


Fig. 35

- Glue the other end as shown.
- Keep the glue placement 90° from each other.

Fig. 35



Fig. 36

- Align the string loop with one of the support structures.
- This is where the string will hang.
- Use a marker or pen to locate the next string positions.

Fig. 36



Fig. 37

Fig. 37

- Tie and glue the two other strings.



Fig. 38

Fig. 38

- Place the ram rod inside the battering ram.
- Tie one end to the frame. DO NOT glue yet.



Fig. 39

- Continue to hang the ram rod in place.

Fig. 39

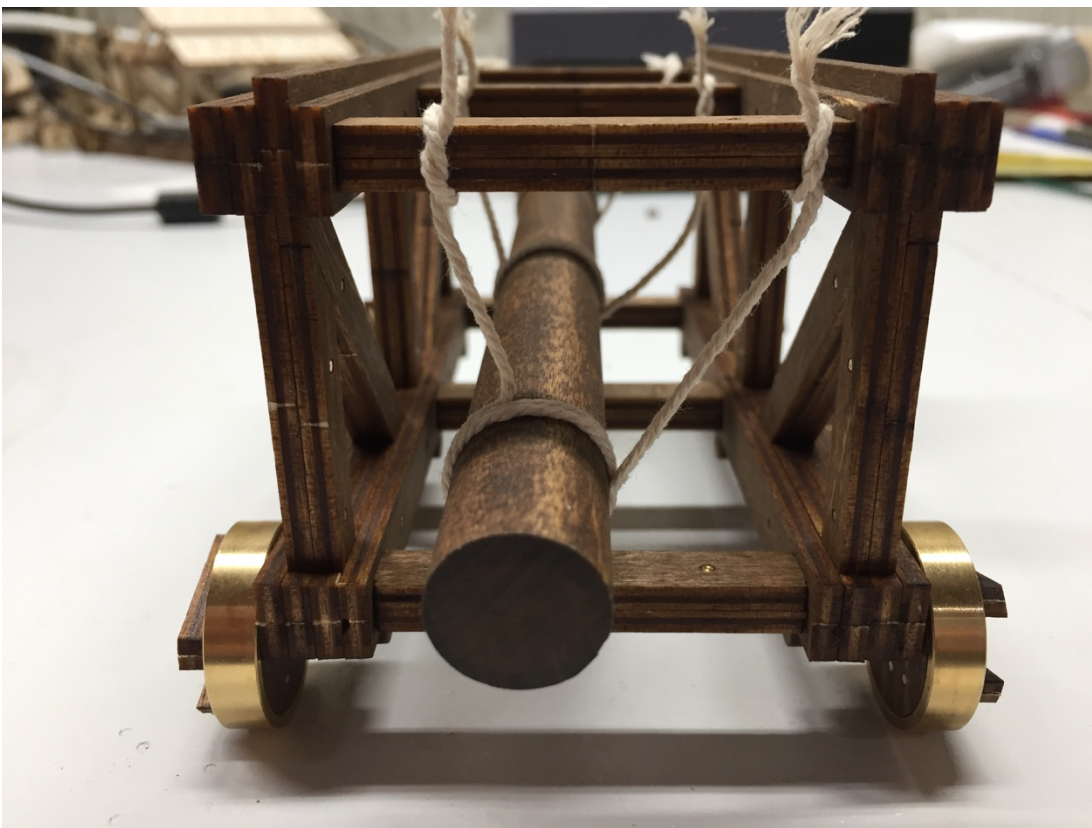


Fig. 40

- Adjust the knots to get the placement you want.
- Fig. 40 shows poor placement.

Fig. 40

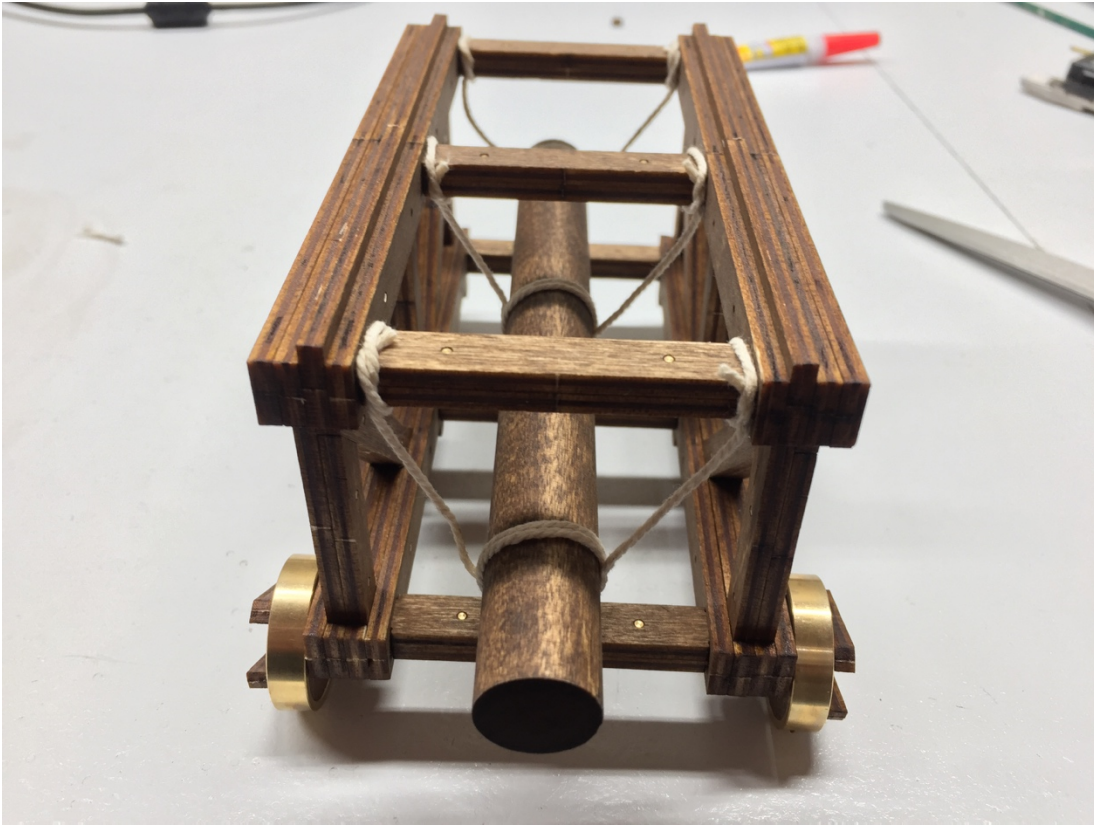


Fig. 41

- Once you are happy with the placement, secure the knots with a drop of superglue glue.
- Trim excess string.

Fig. 41

Section 7 – final Assembly

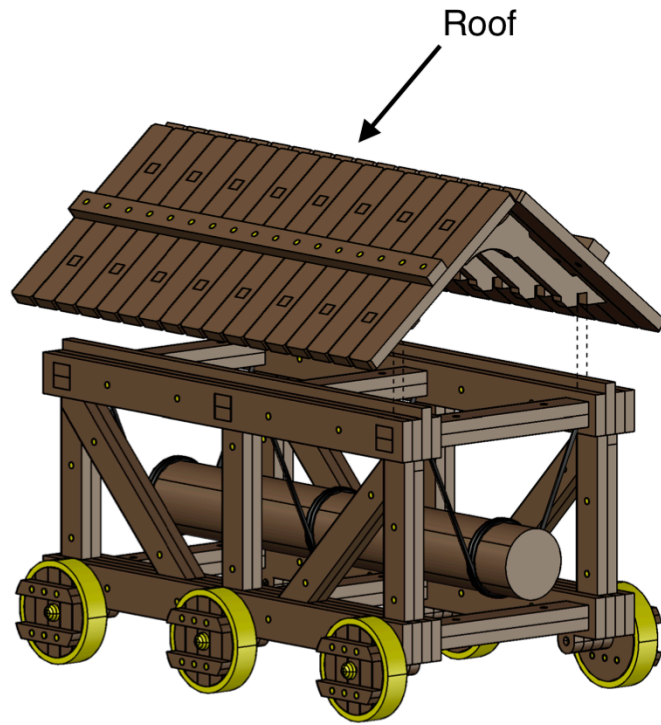


Fig. 42

Fig. 42

- Align parts exactly as shown.
- Place roof on top of battering ram.

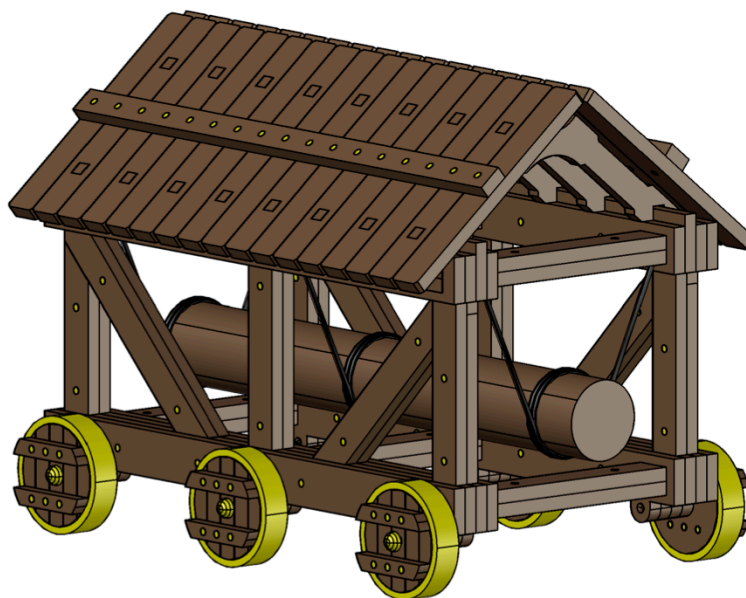


Fig. 43

Fig. 43

- Done!