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Digital Patterns

Designed by Steve Good

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Note to commercial print employees: I give my permission to print as many of this pattern book as your customer requires.

steve@stevedgood.com

General Pattern Information

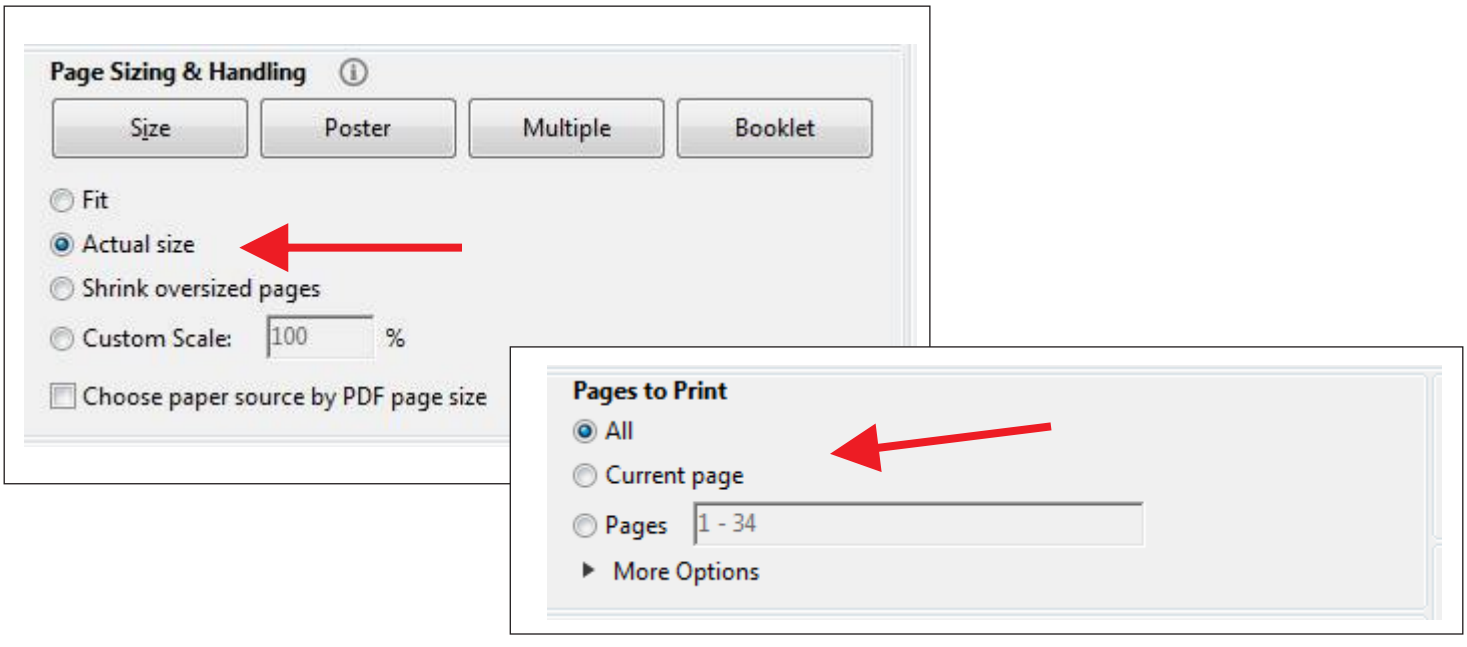
You may use this pattern to make as many of the project as you like. You are free to use any technique including mass production to build the project. The pattern may be copied and given to others provided the entire book is kept intact. You may not sell the pattern or include it in another commercial package of any type.

Steve Good retains the right to the pattern. If you have any questions about the use of this pattern please contact me at steve@stevedgood.com

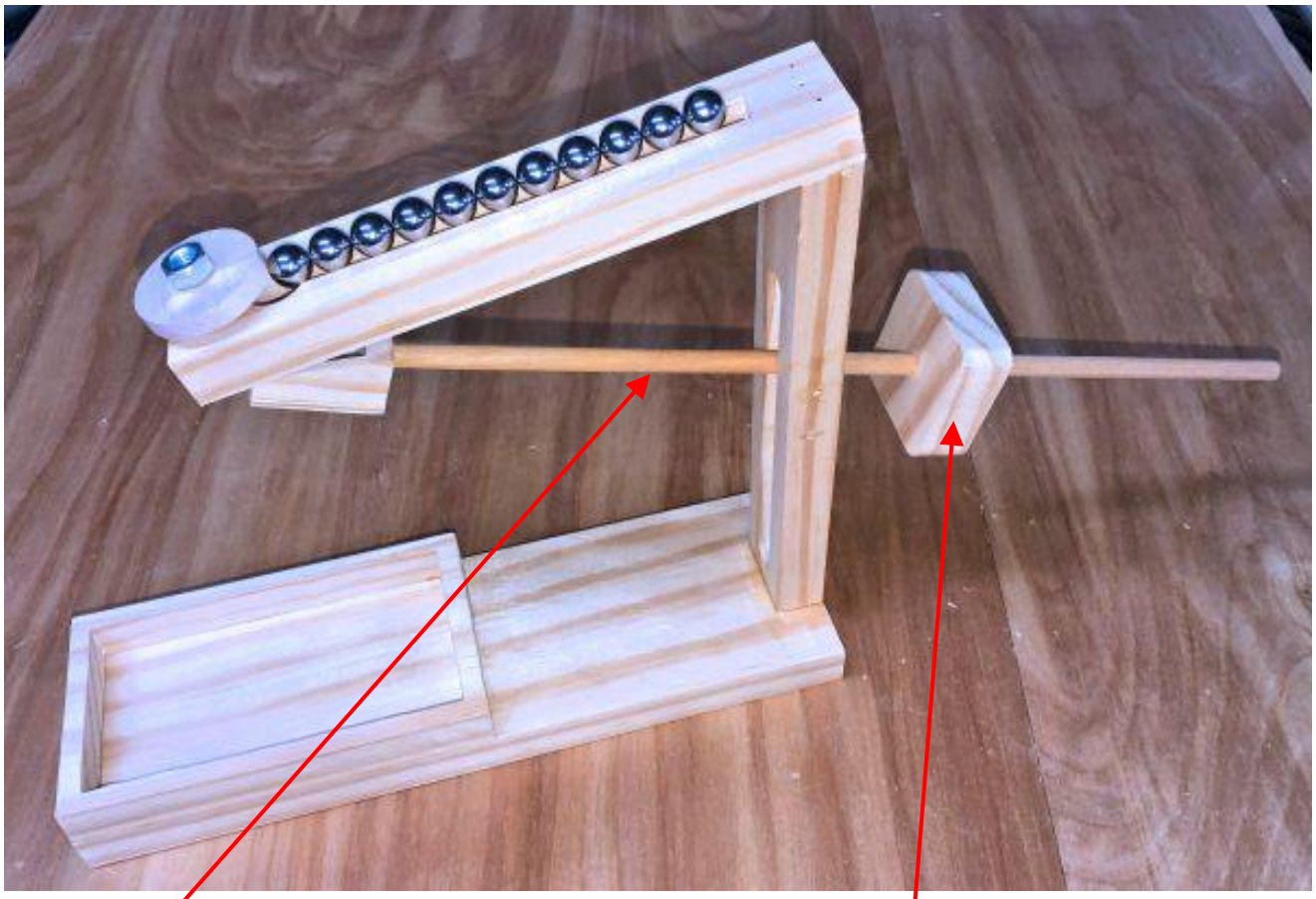
Printing Instructions

When printing this pattern it is important to print it full size. When you bring up the print dialog box look in the “Page Sizing & Handling” section. Make sure the “Actual Size” is selected before you hit print.

You also only need to print the page/s you need. After the print dialog opens look for the “Pages to Print” section. You can print the current page or a range of pages. This will help save ink by not printing the title/instruction pages.



Ball Drop Toy.



Pivot Shaft
5/16” diameter 13.75” long

Do not glue on the counterbalance weight. You will adjust it up and down the shaft until the balance is correct.

You will need three different sizes of dowel.
1.8” diameter 1.5” long
1/4” diameter 1 5/8” long
5/6” diameter 13.75” long

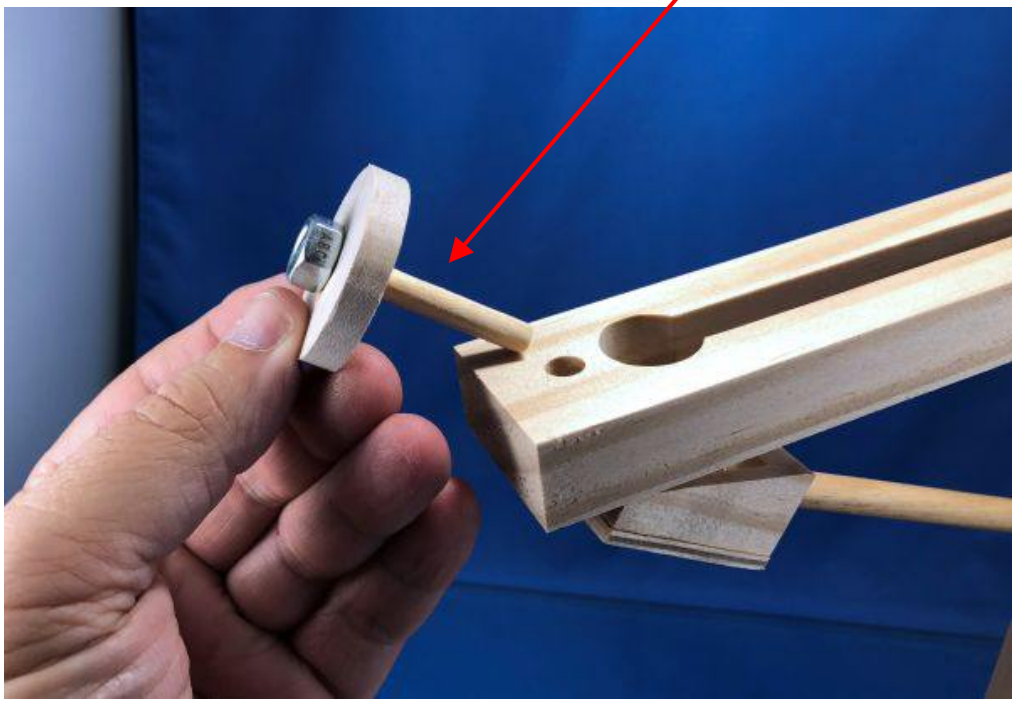
VIDEO LINK
https://youtu.be/TDu3Vsiz2iw

IMPORTANT:
Look over the pictures closely. Use them as a guide. The dimensions in this pattern book may not exactly match your finished project. The project requires balance to work. Tweaking may be necessary.

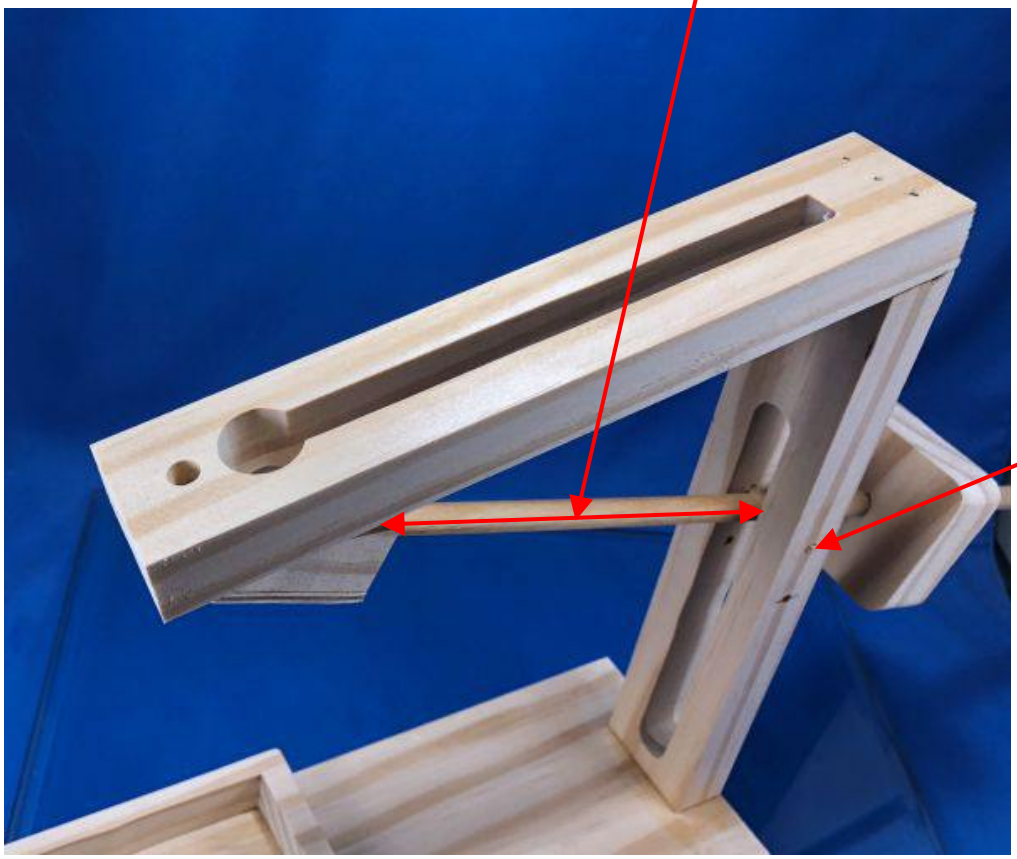
If more than one ball falls for each lift then add weight so the piston fall back quicker.

You want the edge of the shovel to hit in the middle of the piston shaft.

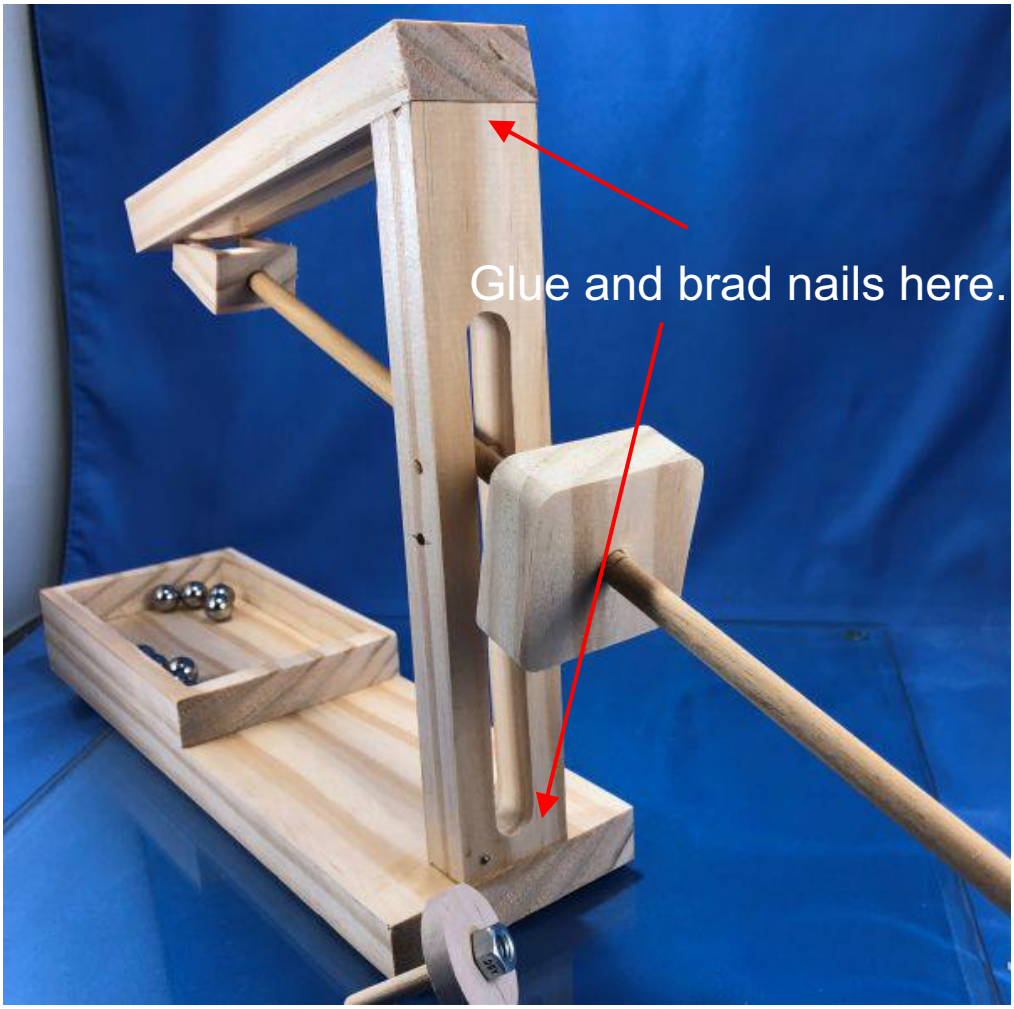
Cut 1/4” diameter dowel 1 5/8” long and glue into the lift circle.

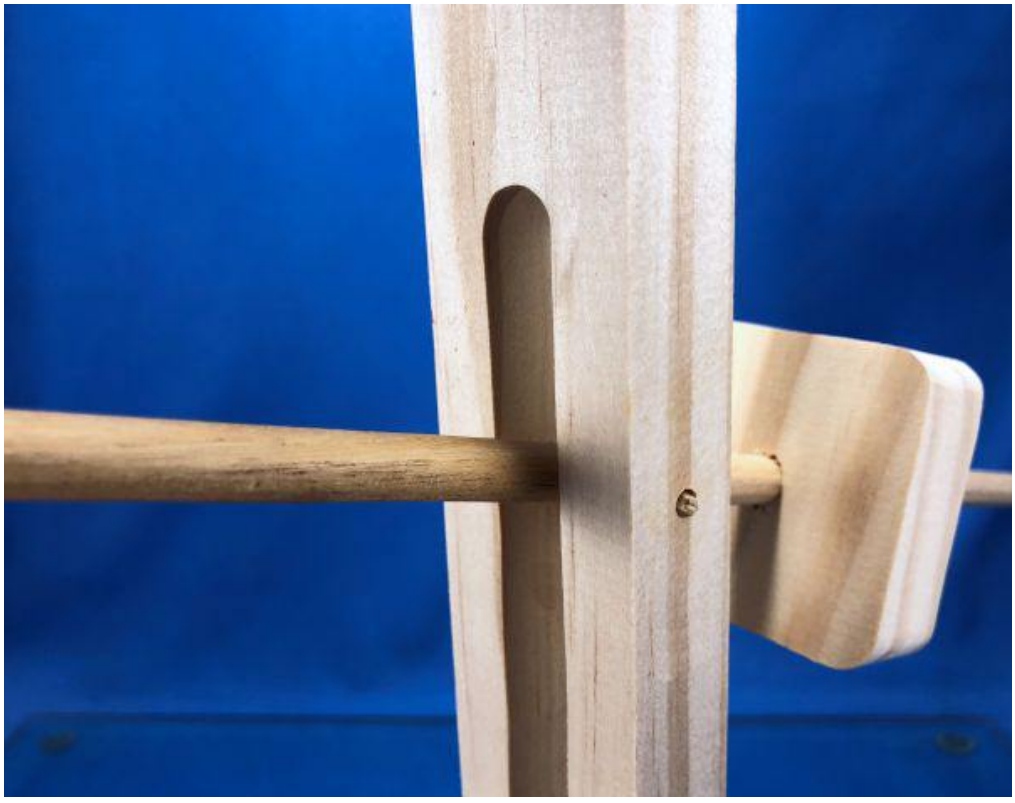


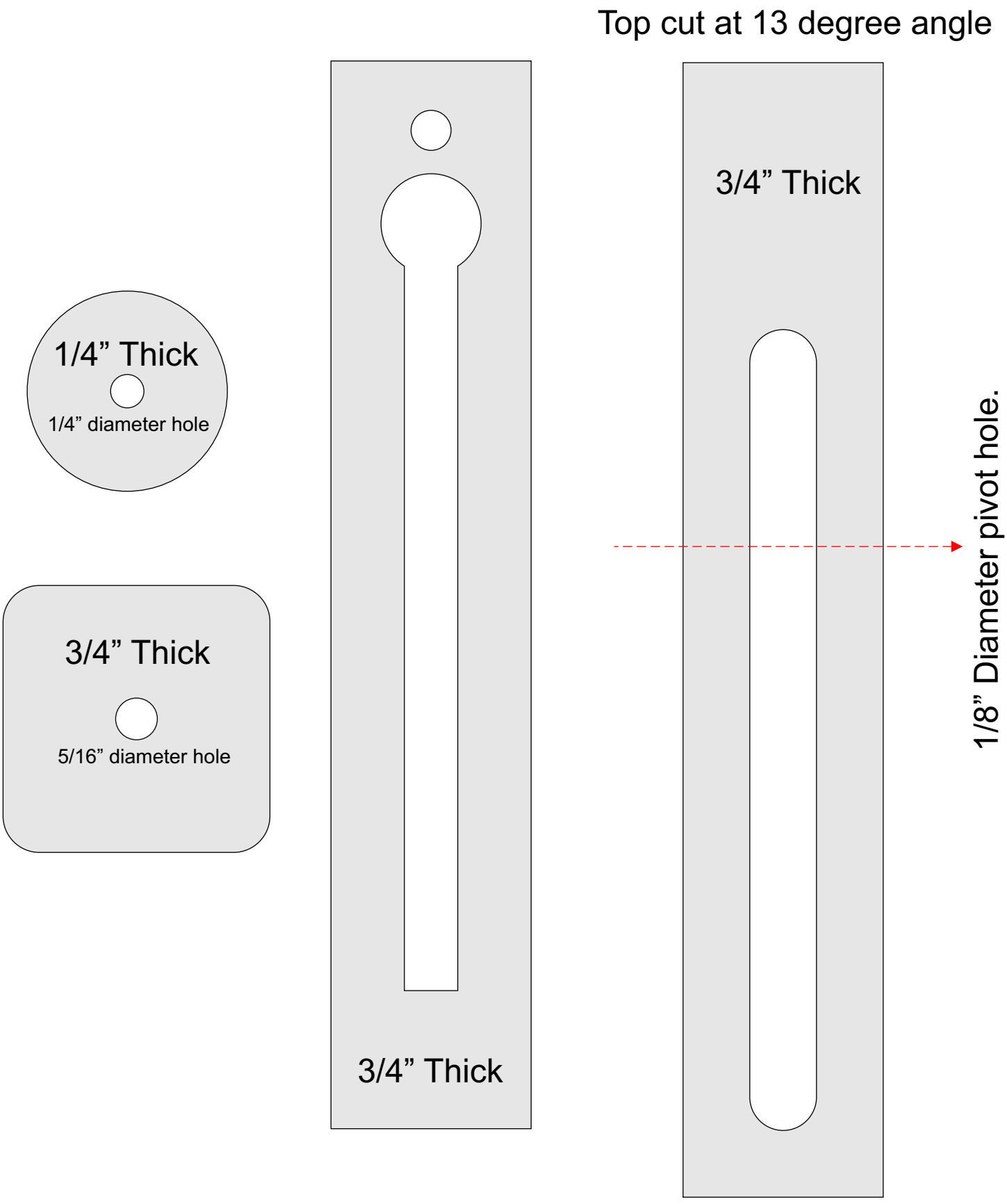
Drill pivot hole approximately 5 7/8 from the shovel end of the shaft. You want the shovel to hit the piston shaft dead center.



1/8” pivot dowel.


Glue and brad nails here.




Top cut at 13 degree angle
1/4” Thick
1/4” diameter hole
3/4” Thick
5/16” diameter hole
3/4” Thick
3/4” Thick
1/8” Diameter pivot hole.

Shovel

1/8” Thick

Bottom

3/4” Thick

Drill 516” hole for pivot shaft.

Sand shovel to an angle like the photo.

Drop Box

3/4” Thick

NOT ACTUAL SIZE.
BASE