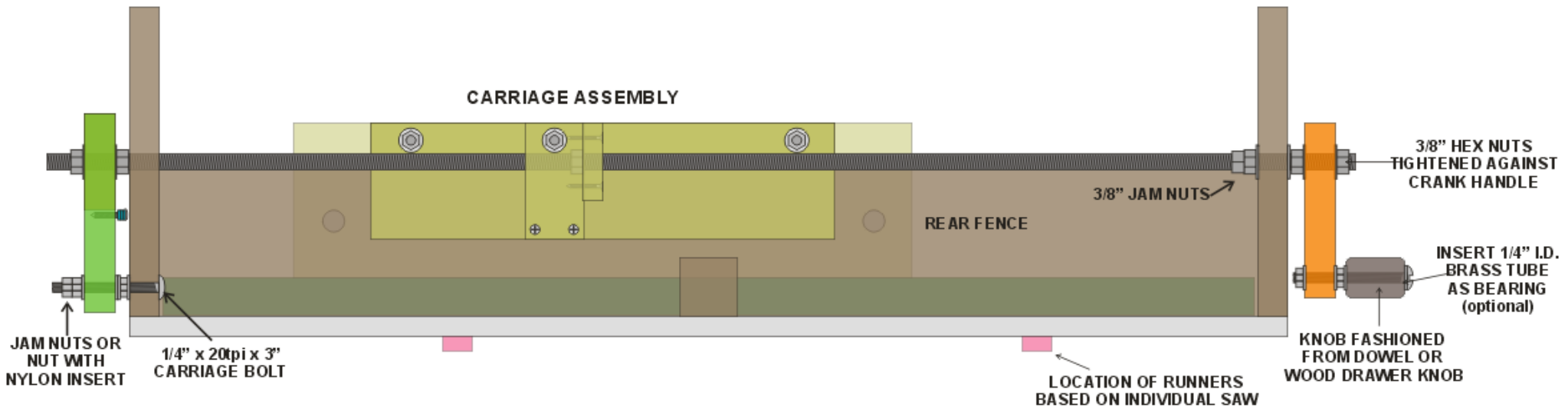
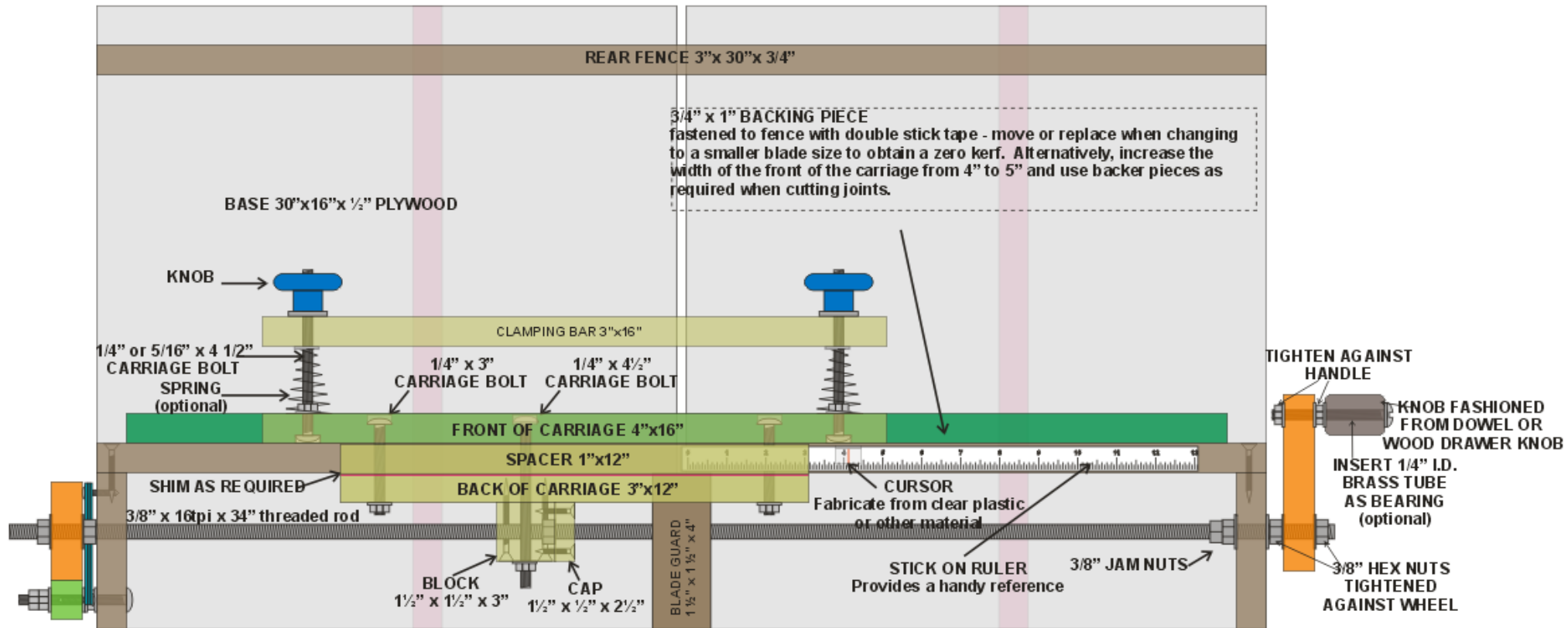


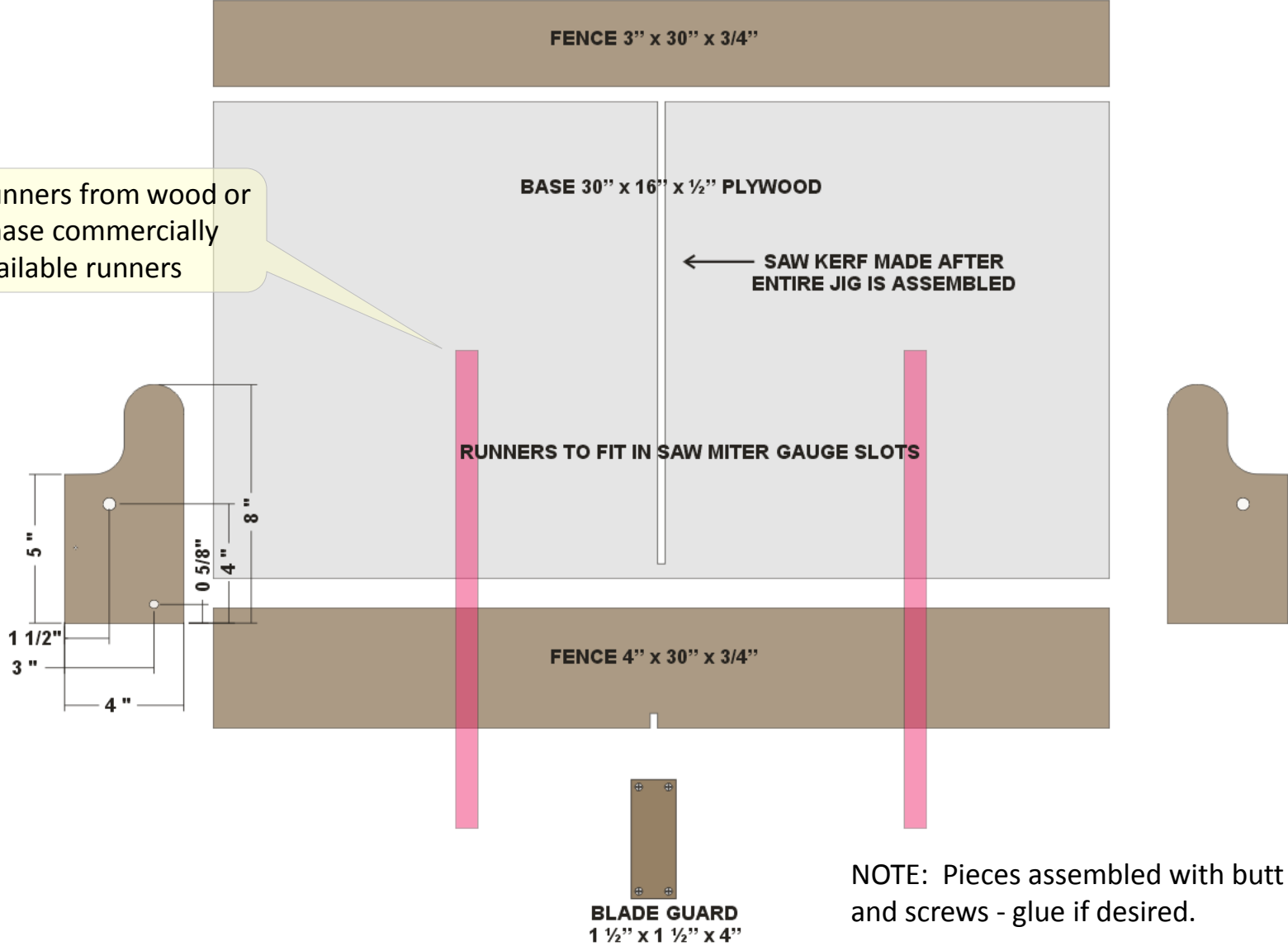
BOX JOINT JIG PLANS

OVERVIEW - BACK AND TOP VIEWS



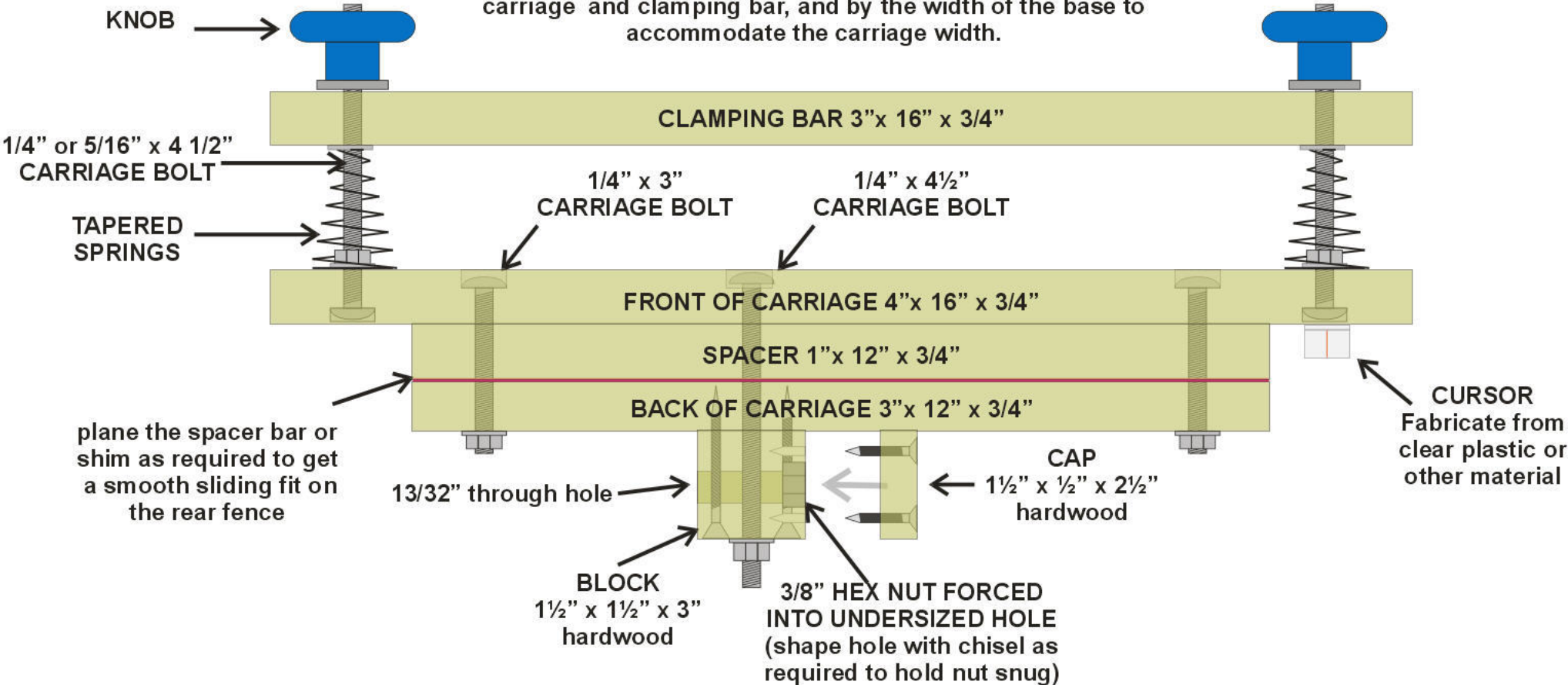
BASE PIECE PARTS

Make runners from wood or purchase commercially available runners



THE CARRIAGE

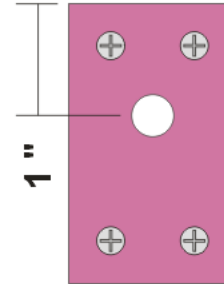
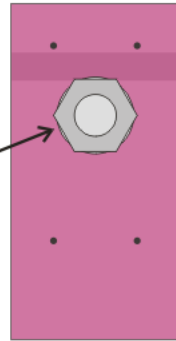
This carriage accommodates approximately 12" wide pieces. The width of pieces is governed by the width of the front of the carriage and clamping bar, and by the width of the base to accommodate the carriage width.



DETAILS OF CARRIAGE BLOCK

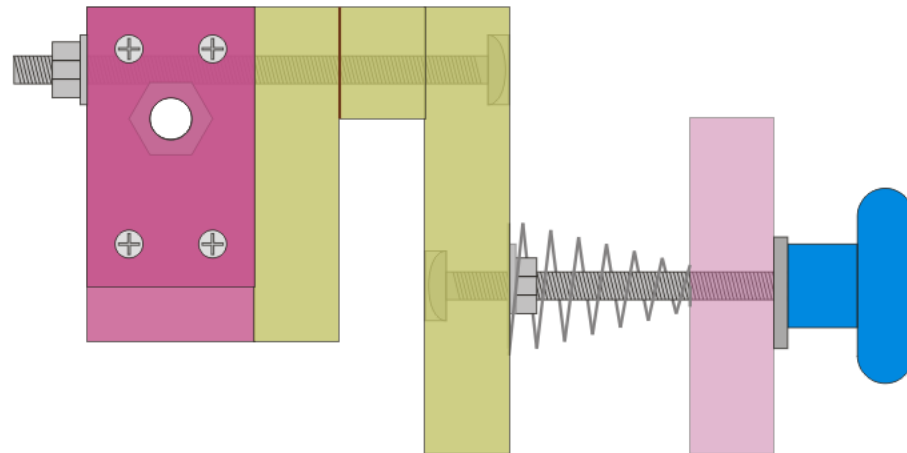
1 1/2" x 1 1/2" x 2 1/2" BLOCK
HOLDS HEX NUT AND FORMS
LINK BETWEEN CARRIAGE
AND SCREW THREAD DRIVE

3/8" HEX NUT FORCED INTO
SLIGHTLY UNDERSIZED HOLE



1 1/2" x 2 1/2" x 1/2"
HARDWOOD COVER PIECE
KEEPS 3/8 HEX NUT SNUG

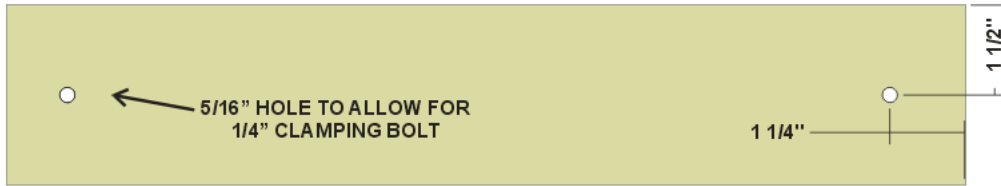
SIDE VIEW OF CARRIAGE BLOCK



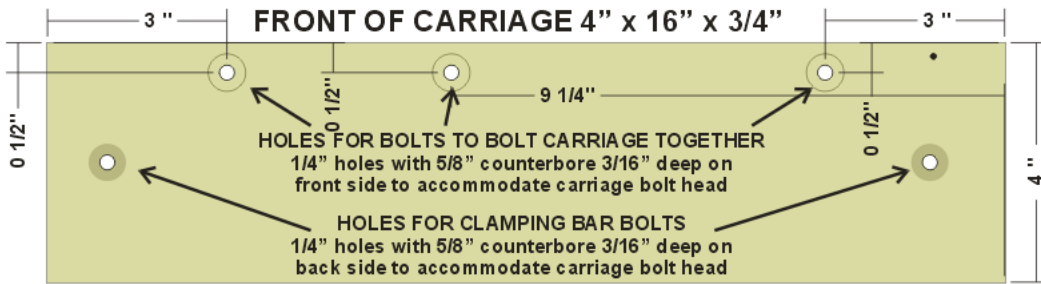
SIDE VIEW OF CARRIAGE ALONE

CARRIAGE PARTS

CLAMPING BAR 3" x 16" x 3/4"

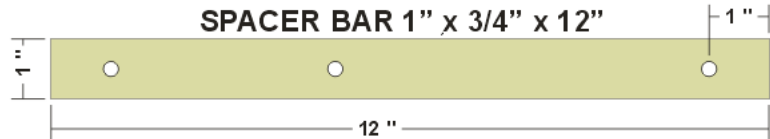


FRONT OF CARRIAGE 4" x 16" x 3/4"

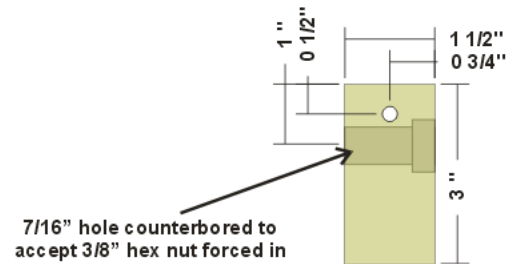
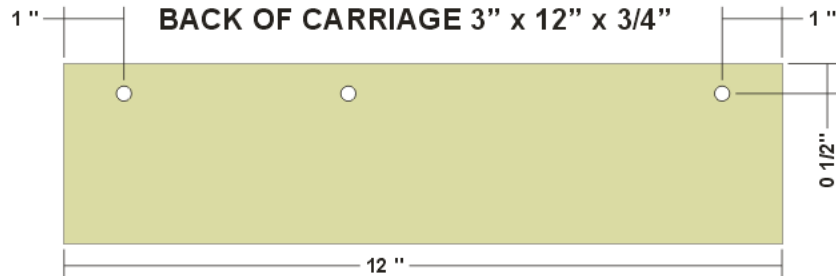


 **CURSOR**
Fabricate from clear plastic

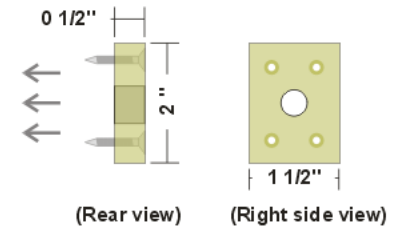
SPACER BAR 1" x 3/4" x 12"



BACK OF CARRIAGE 3" x 12" x 3/4"

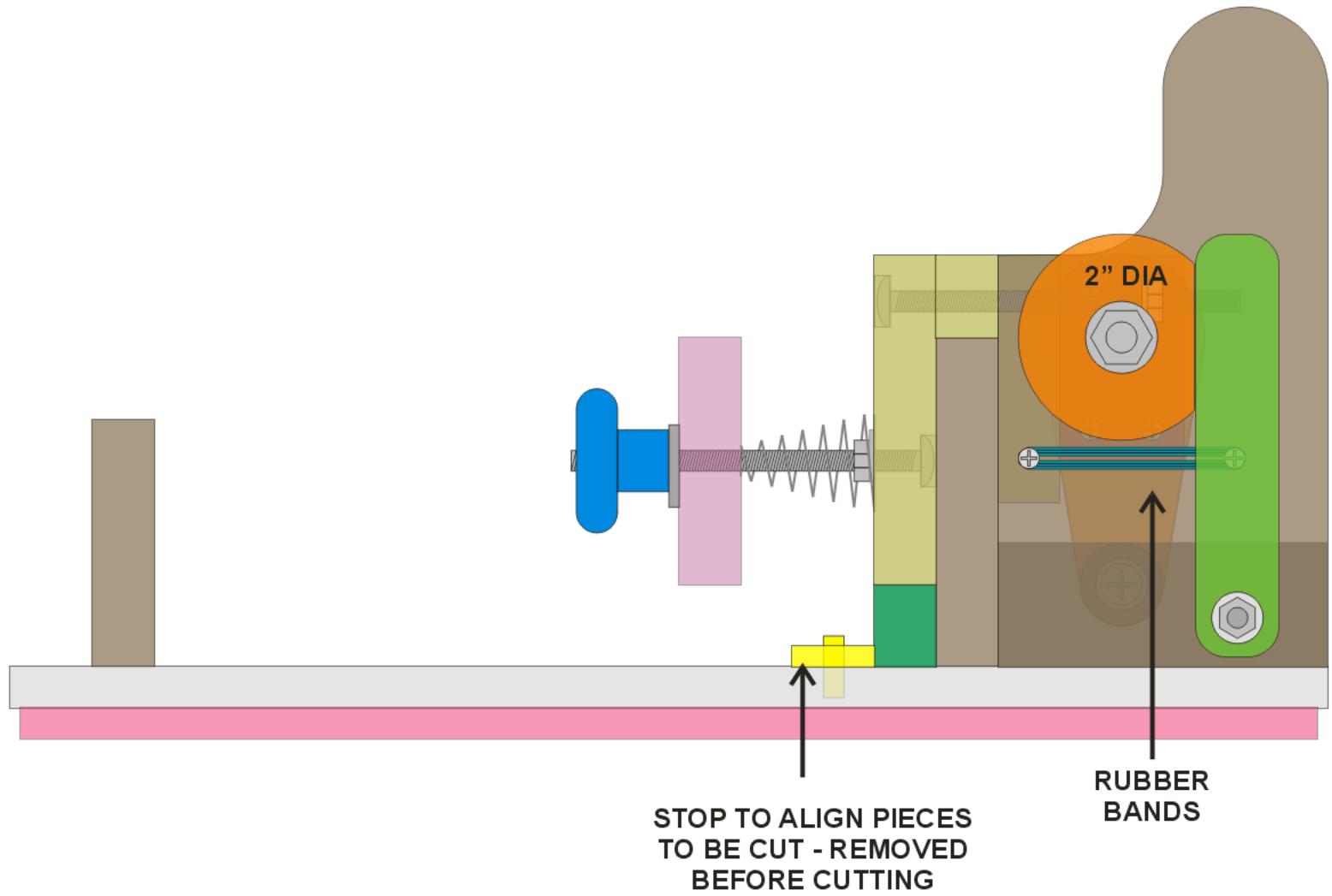


CARRIAGE BLOCK
1 1/2" x 1 1/2" x 3" hardwood
(rear view)

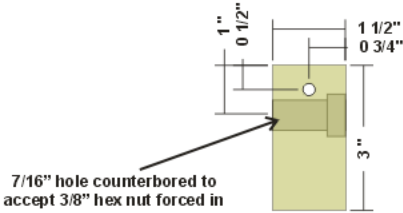
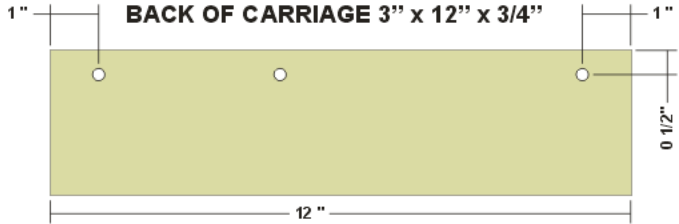
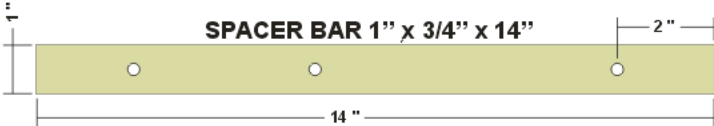
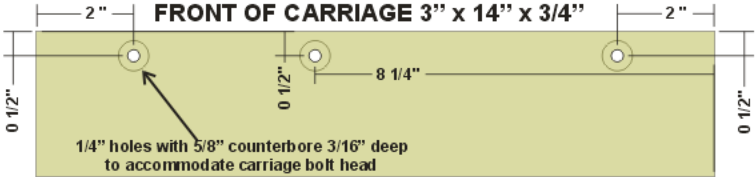
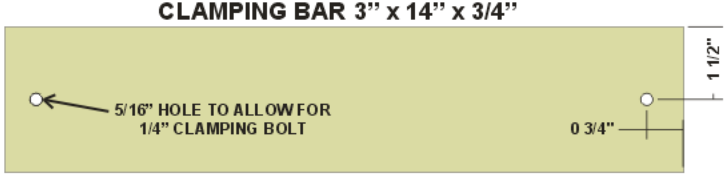


CARRIAGE BLOCK CAP
1 1/2" x 2" x 1/2" hardwood
(used to hold hex nut in place)

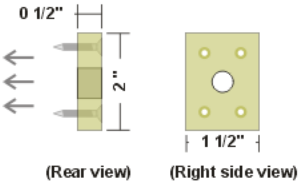
LEFT SIDE VIEW



CARRIAGE PARTS

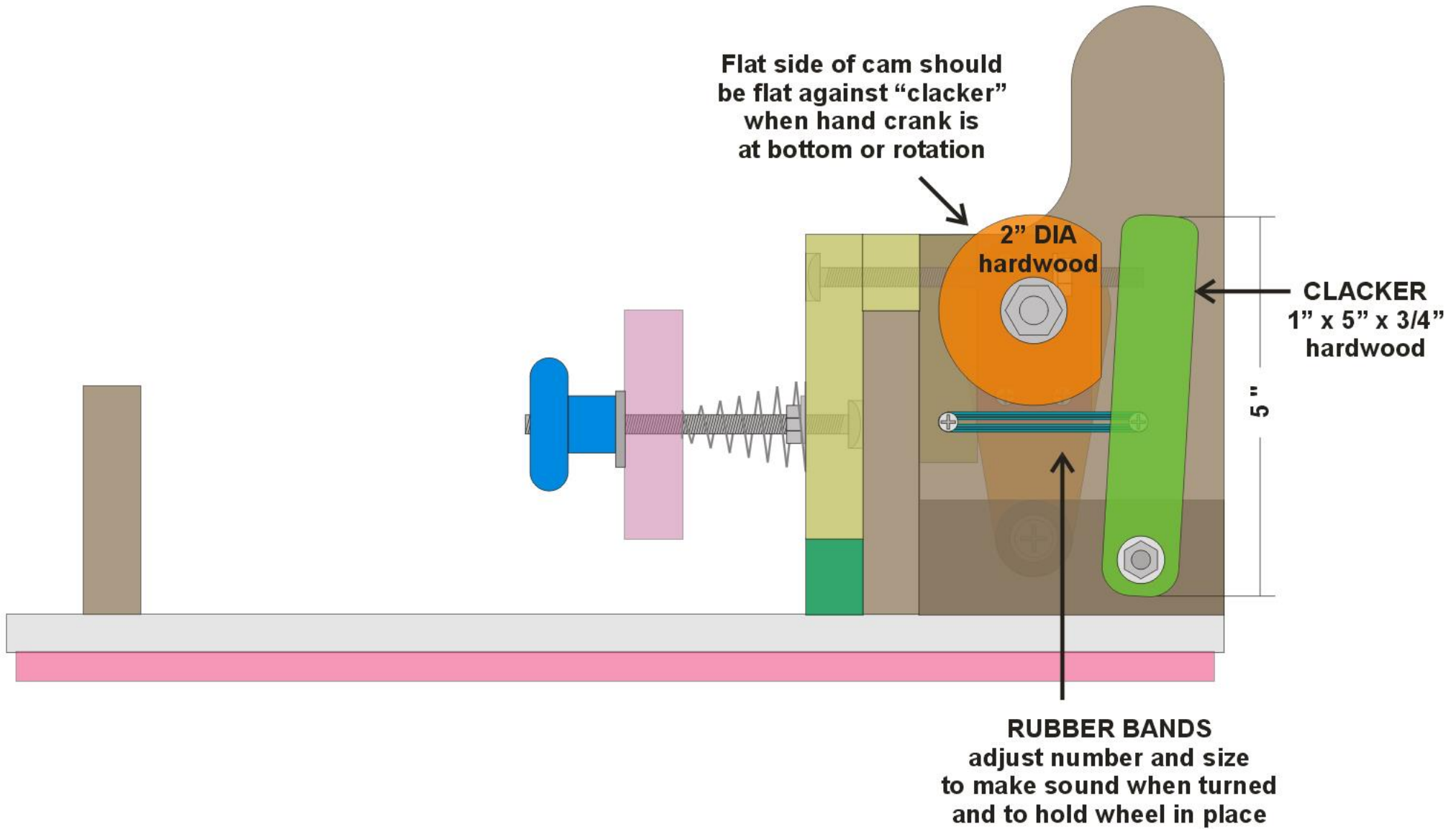


CARRIAGE BLOCK
 1 1/2" x 1 1/2" x 3" hardwood
 (rear view)



CARRIAGE BLOCK CAP
 1 1/2" x 2" x 1/2" hardwood
 (used to hold hex nut in place)

VIEW FROM LEFT SIDE

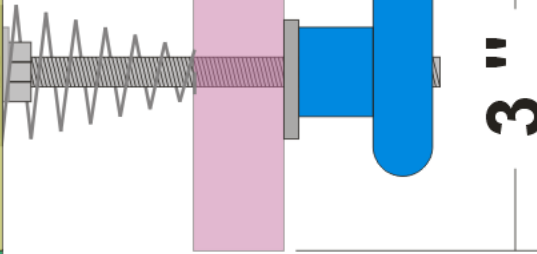
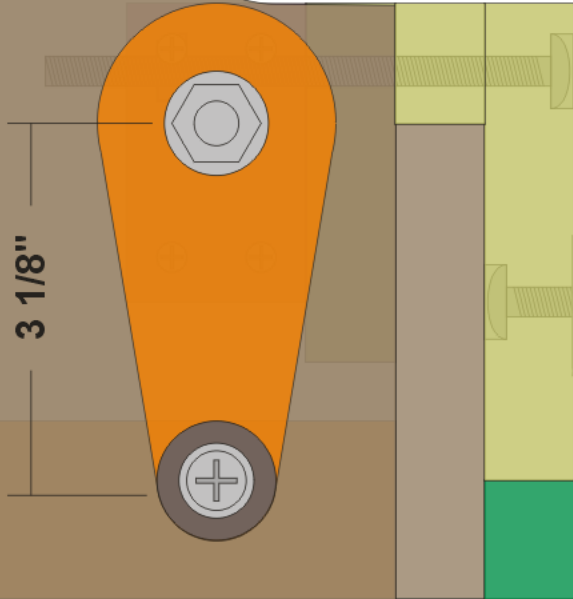


VIEW FROM RIGHT SIDE

HAND HOLD
EDGES ROUNDED

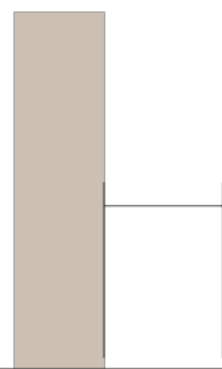


3 1/8"

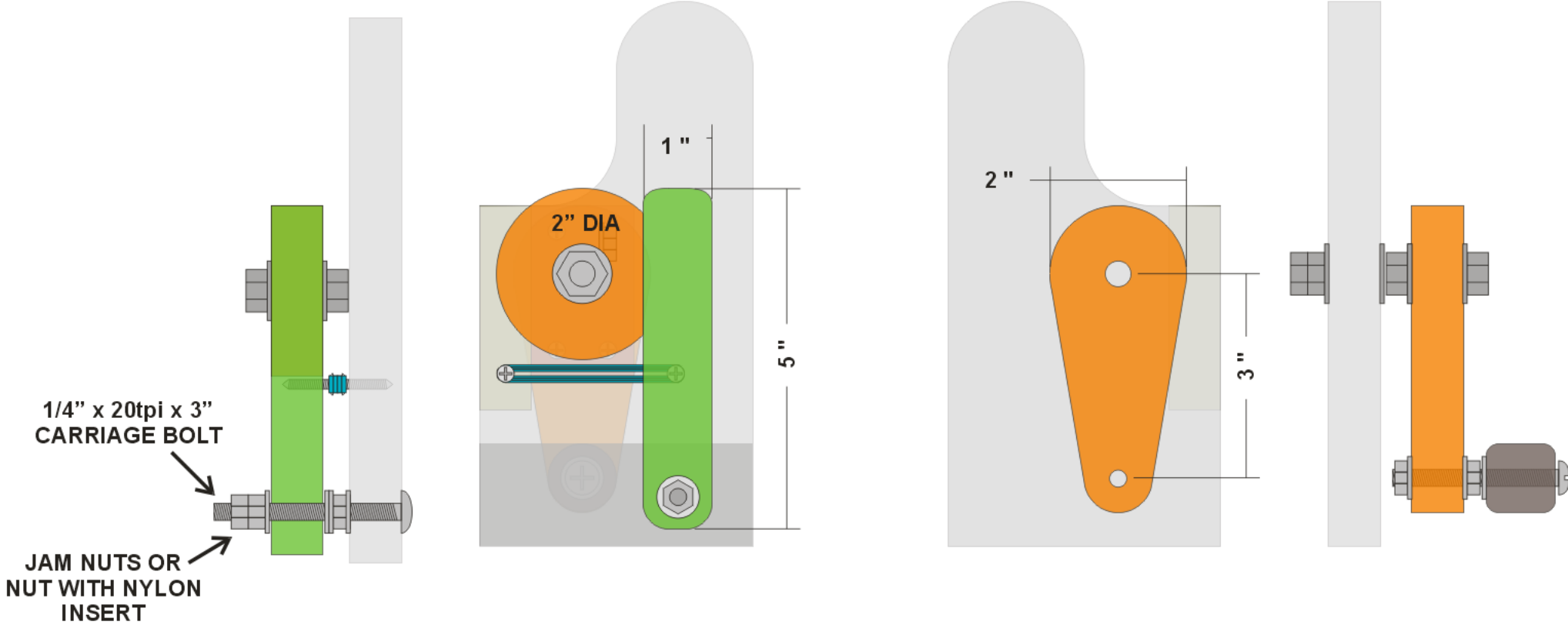


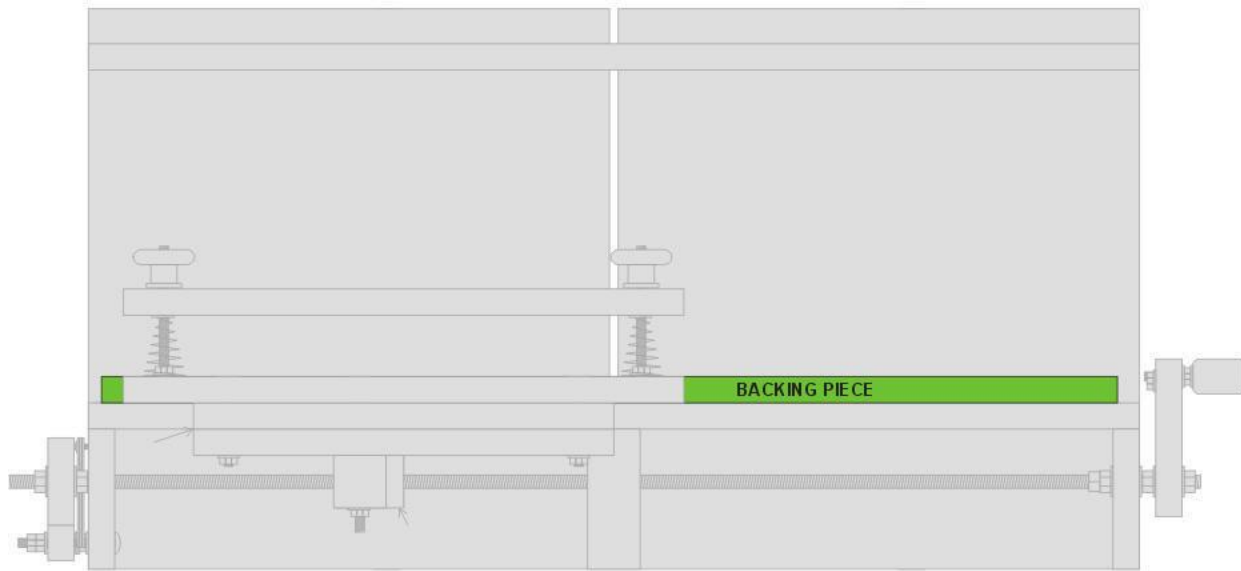
3"

1"



DETAILS OF CRANK MECHANISM



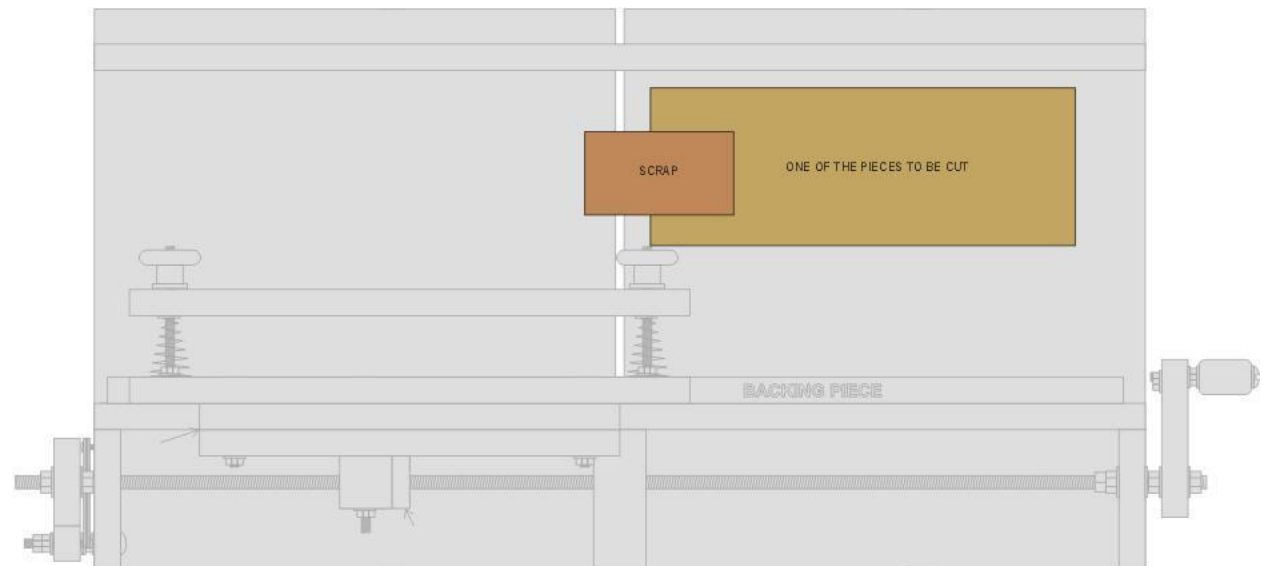


STEP 1 - PUT THE BACKING PIECE IN PLACE

Using double stick tape, stick the 3/4" x 1" backing piece to the front fence. This piece provides a zero clearance kerf for a clean cut. It can be moved left or right, or replaced when you change to a narrower blade.

if you haven't already done so, this would be a good time to cut the saw kerf in your base.

Note that this piece is not necessary if you use a scrap piece behind the boards being cut, but you will need to increase the width of the front carriage piece from 4" to 5".



STEP 2 - SET THE BLADE HEIGHT

Lay one of the pieces to be cut on the base next to the saw blade. Place another piece of board on top of the piece to be cut and over the saw blade. Use this as a gauge to set the blade depth for the cuts.



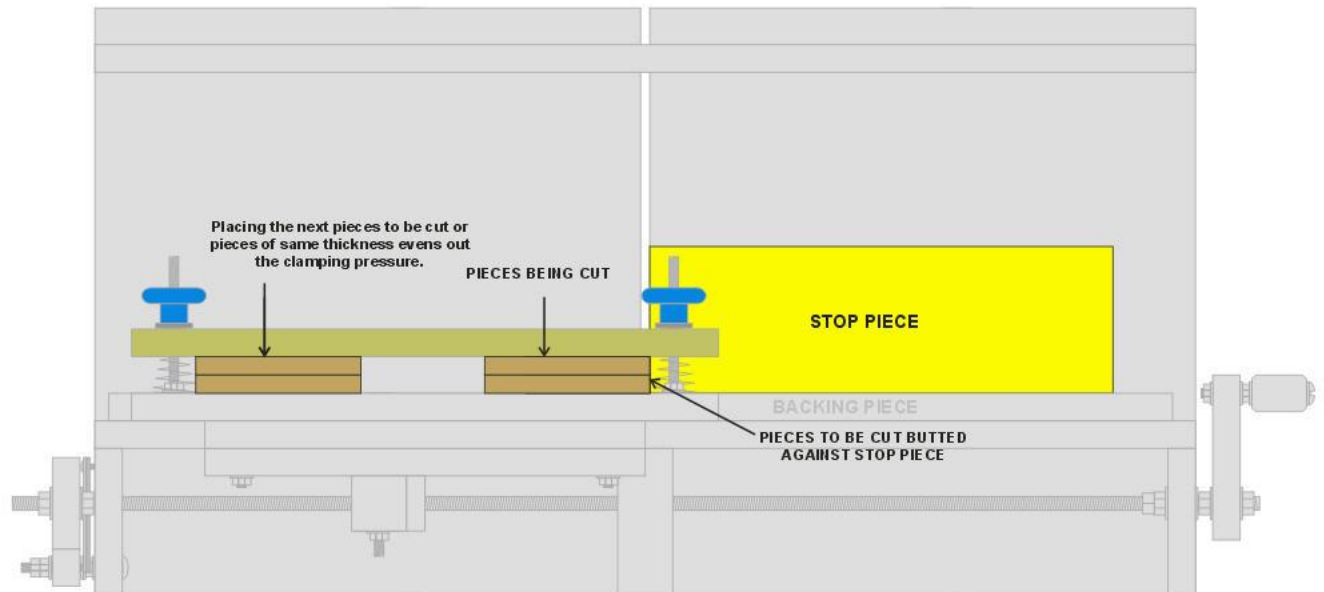
STEP 3 - PREPARE THE STOP PIECE

1 - Make a stop piece out of 1/4" MDF or equivalent (must be less in thickness than the depth of cut) about 4" wide by 12" long.

2 - Position the stop piece so that the left edge aligns with the right edge of the blade by either

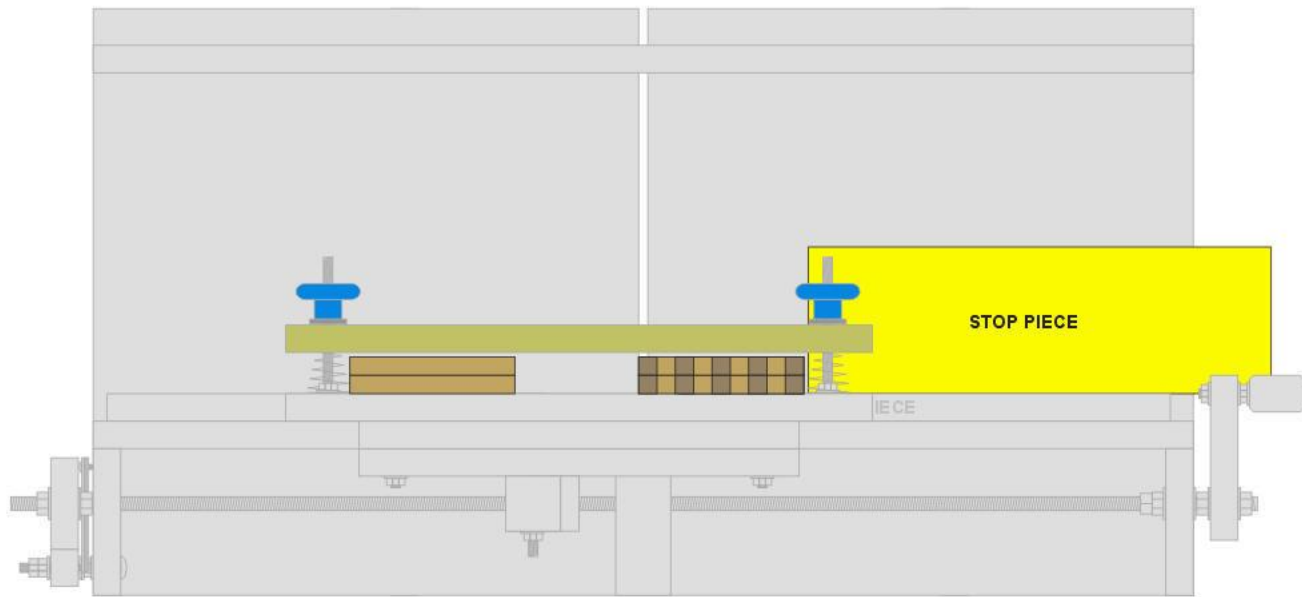
- A. Sliding the stop piece up against the stopped saw blade or
- B. Starting the saw and trimming off a slight amount

3 - Do not move the stop piece.



STEP 4 - CLAMP THE PIECES TO BE CUT

Without moving the stop piece, butt the two pieces to be cut against the stop piece and clamp them in place. To keep the clamping pressure even, put pieces of equal width at the other end of the clamp if necessary. Once the pieces are clamped, set the stop piece aside.

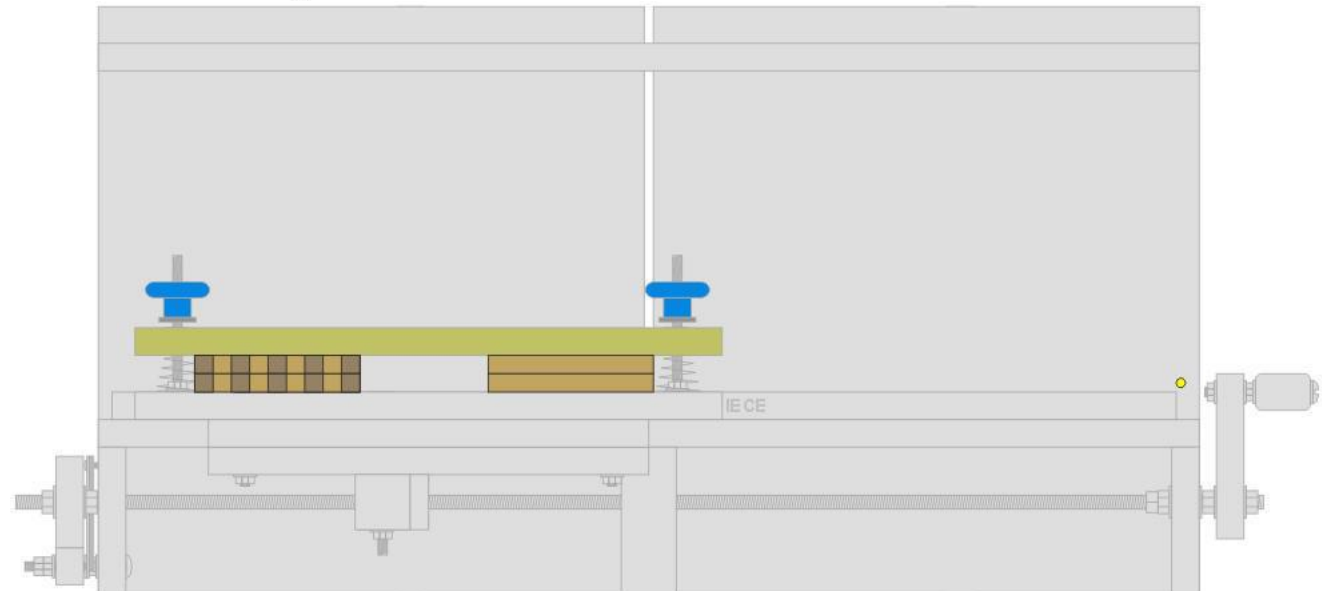


STEP 5 - CLAMP THE PIECES TO CUT THE OPPOSITE END

When the last cut is made on the first end, place the stop piece against the pieces and keep it in place.

Un-clamp the pieces, and while keeping the stop piece in place, flip the pieces and re-clamp.

Proceed to cut the next set of fingers by turning the crank backwards and making the cuts until the carriage returns to its original position.



STEP 6 - CUT THE REMAINING PIECES

With the carriage back at its original starting position, you are ready to use the STOP PIECE and clamp up the remaining pieces to be cut.