

# COMMUNITY TABLE

**Use:** Architecture Folly

**Count:** 1

**Materials + Directions:**

2x4 pressure treated lumber

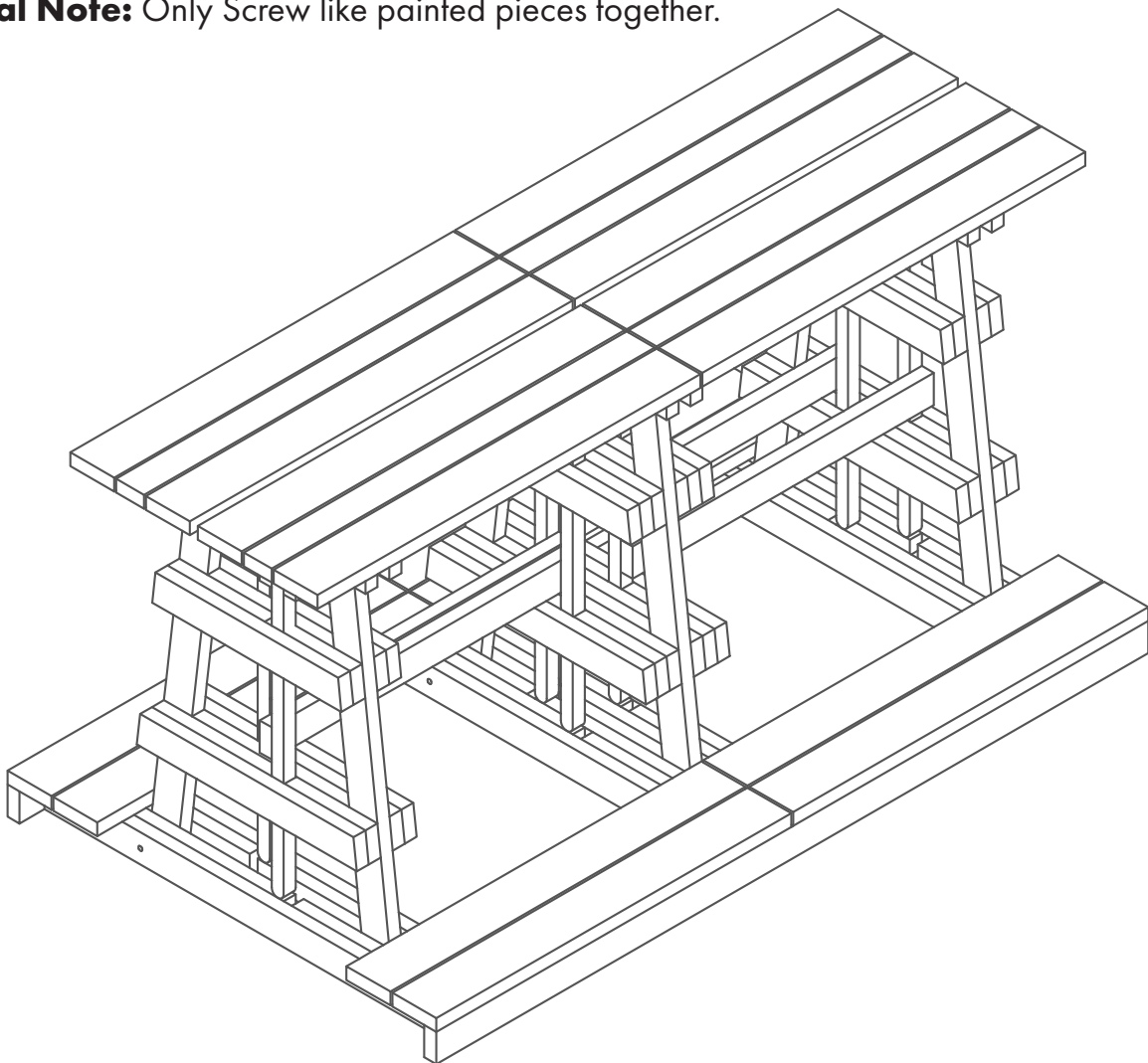
2x6 pressure treated lumber

5 paint colors (blue stationary members + red shades kinetic members)

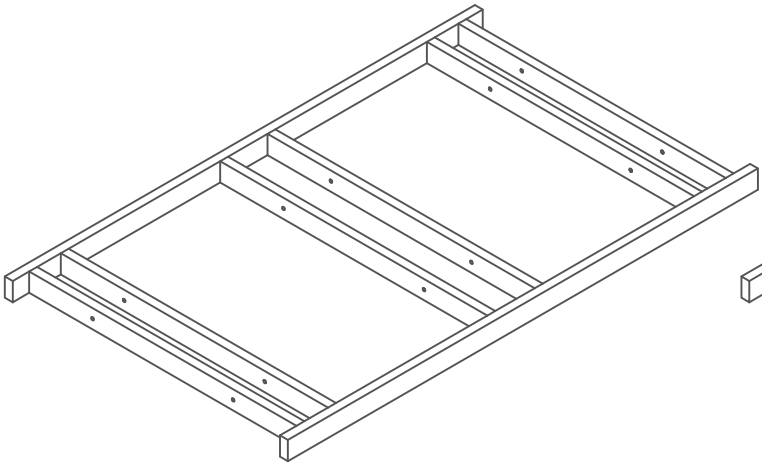
8 six inch steel door springs

12 carriage bolts at 12"x1/2" + nuts and washers

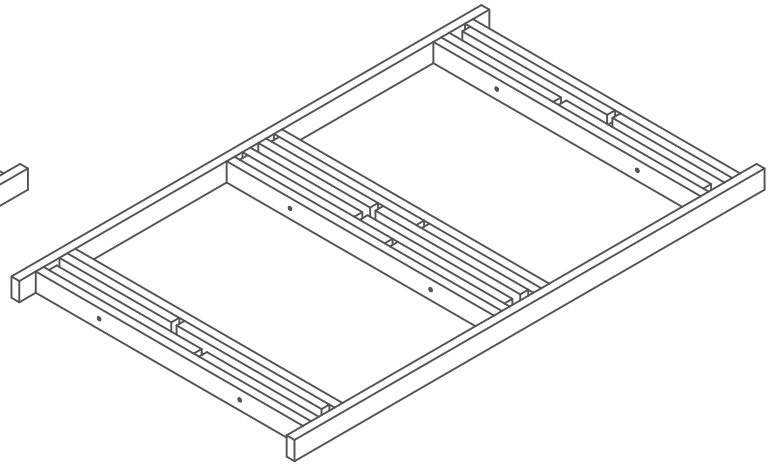
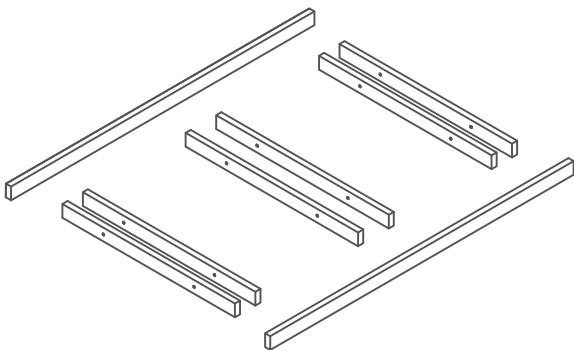
**General Note:** Only Screw like painted pieces together.



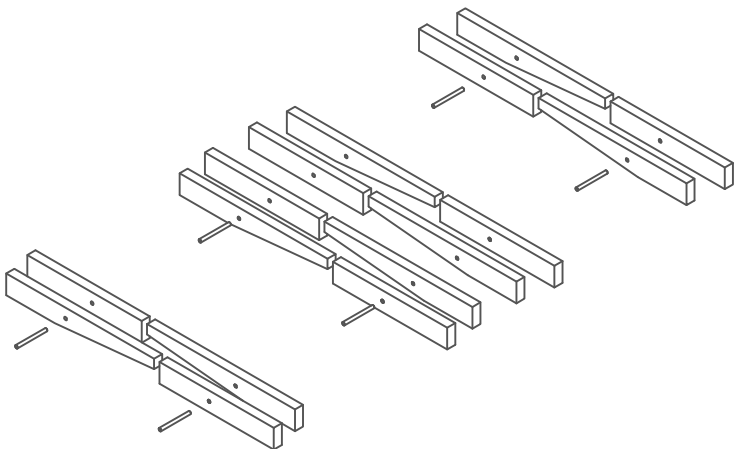
# ASSEMBLY



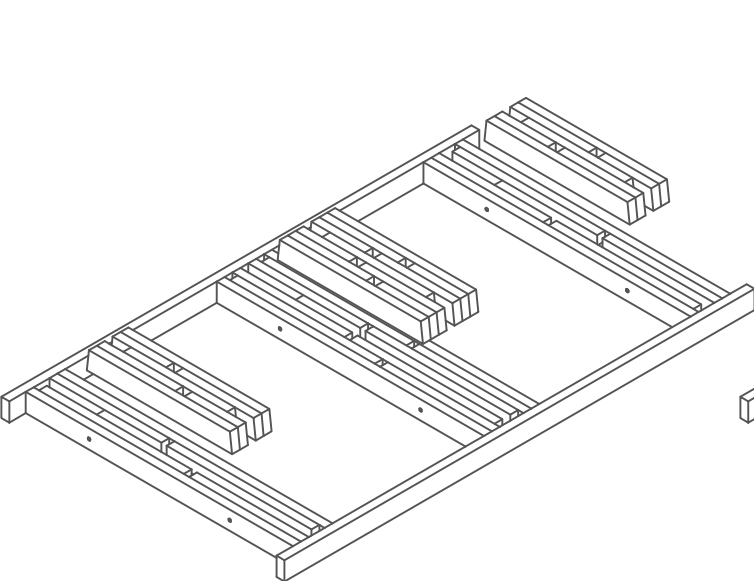
1



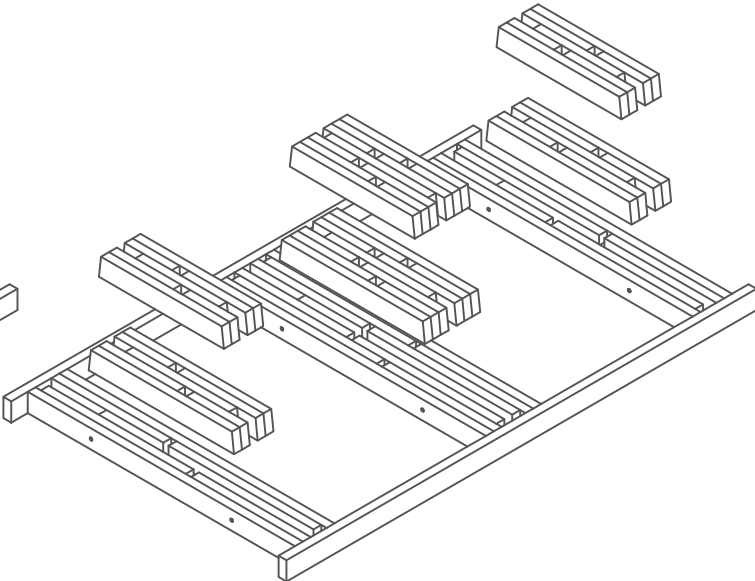
2



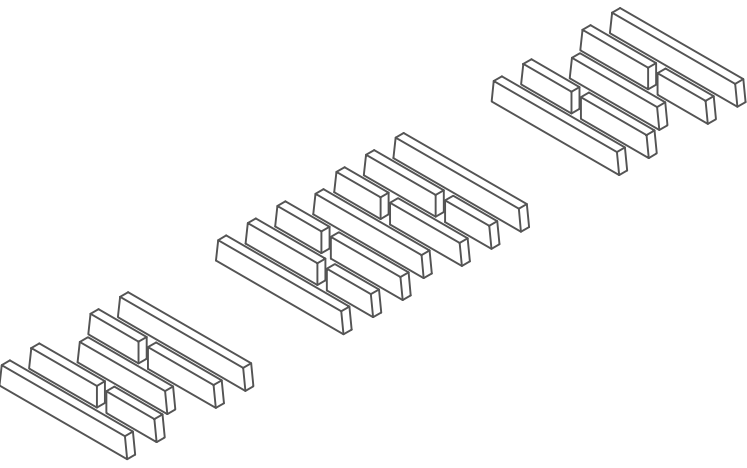
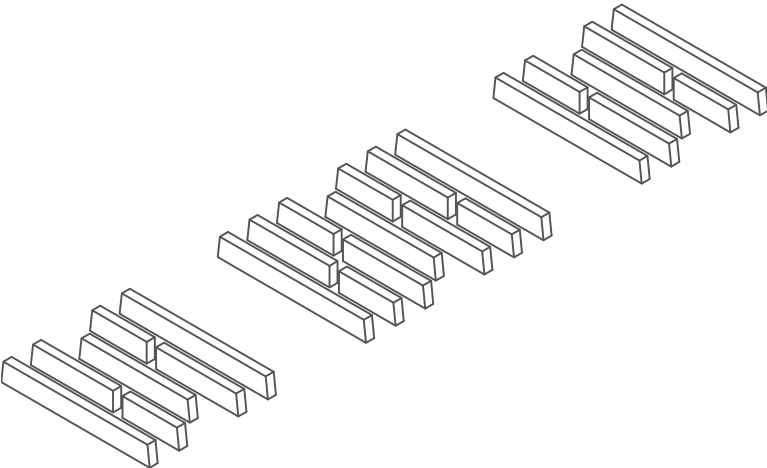
# ASSEMBLY



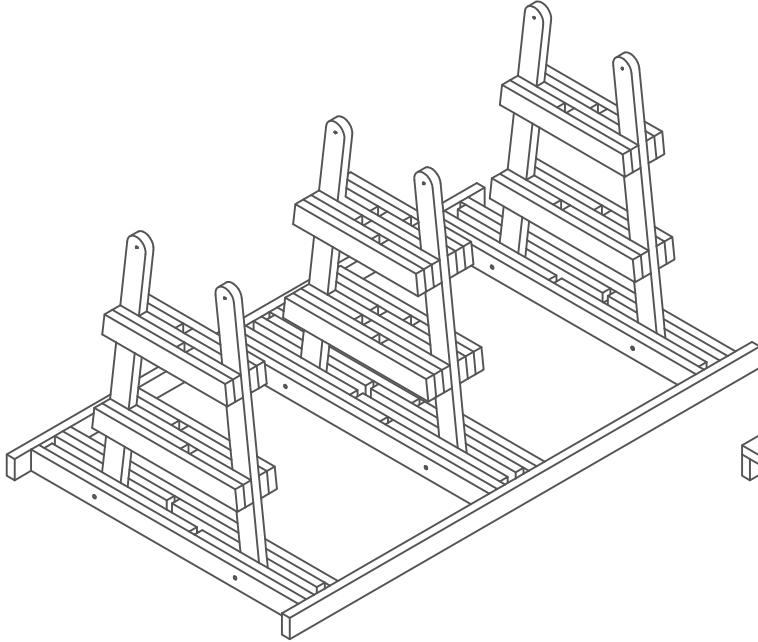
3



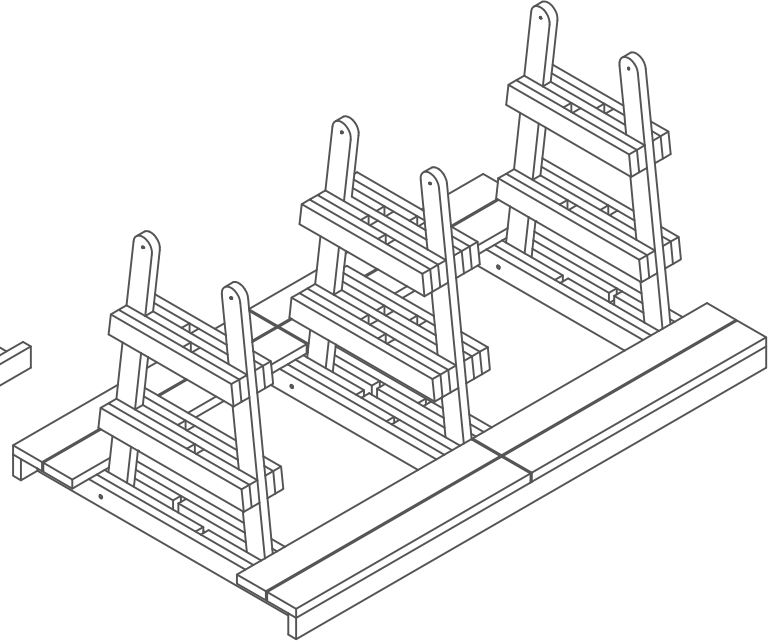
4



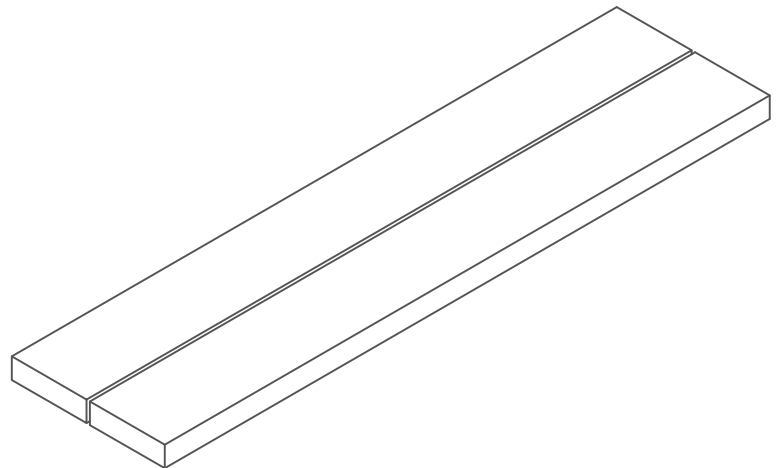
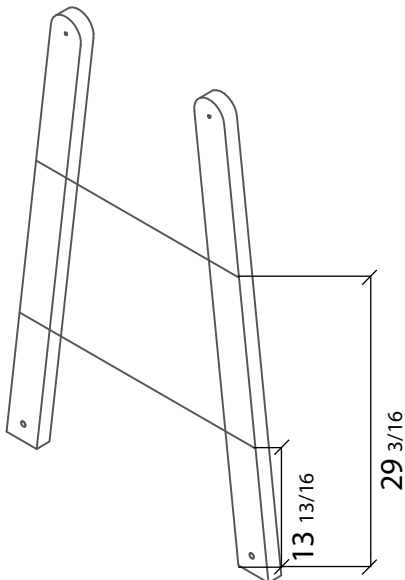
# ASSEMBLY



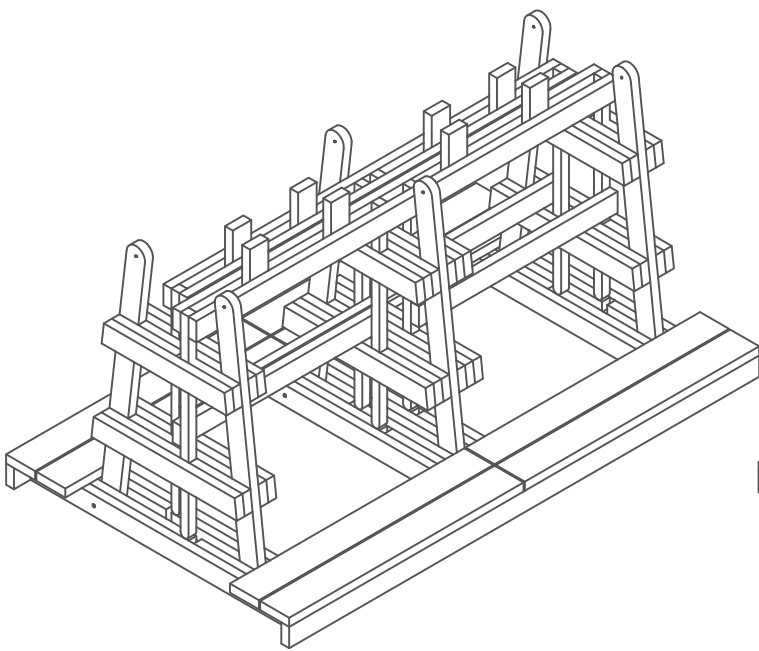
5



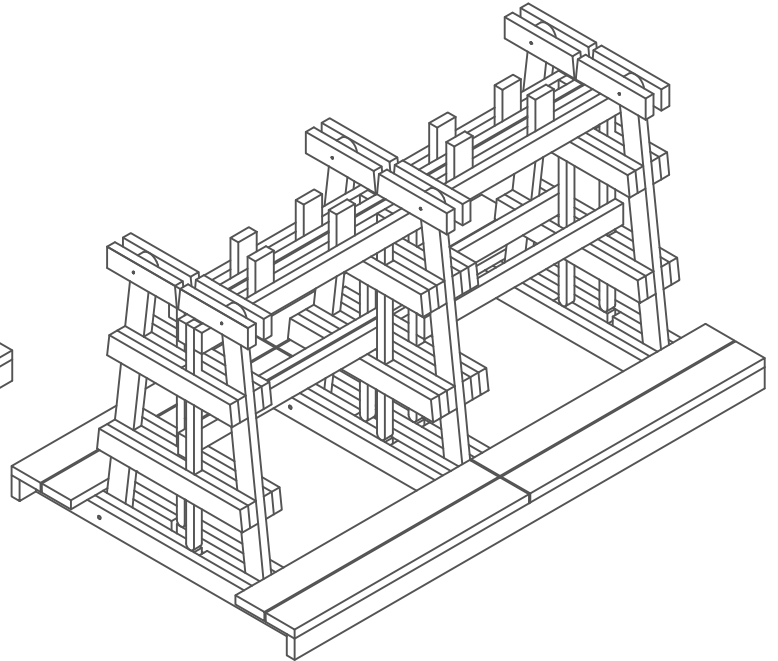
6



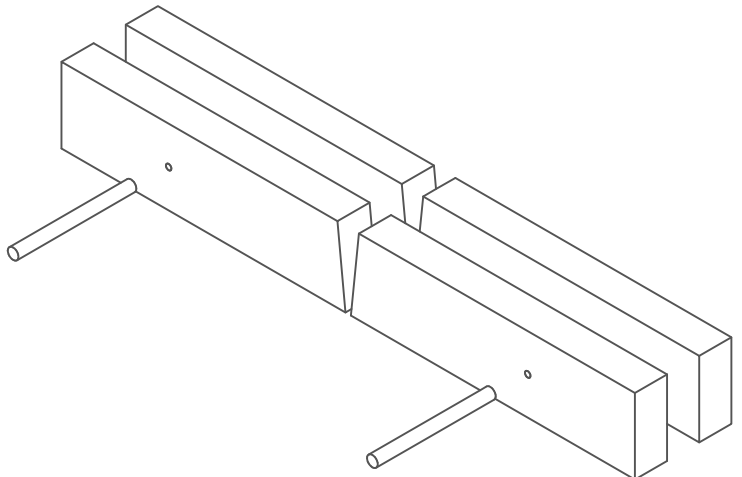
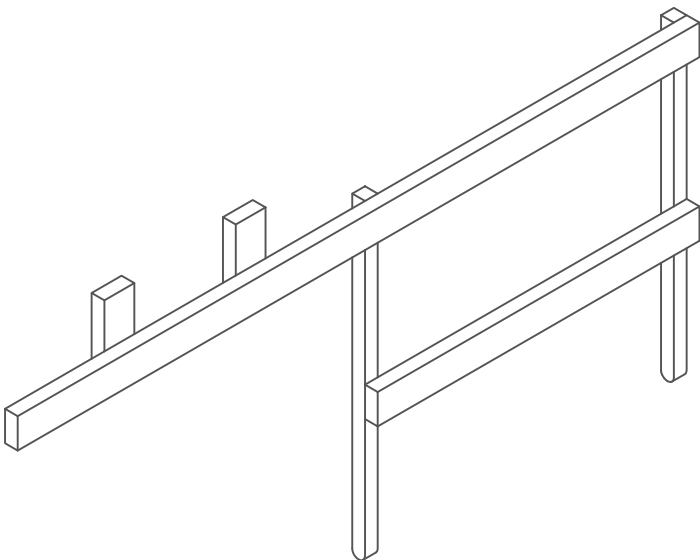
# ASSEMBLY



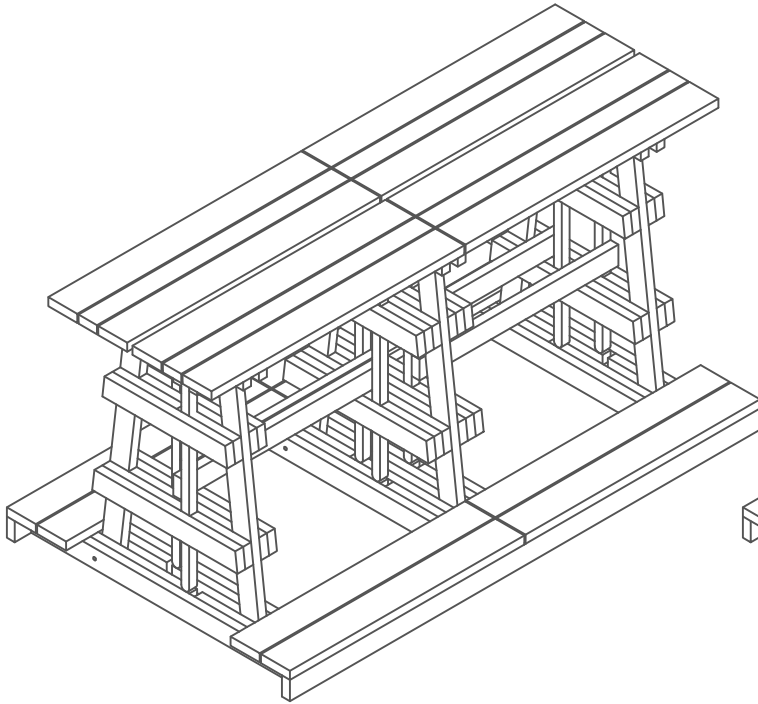
7



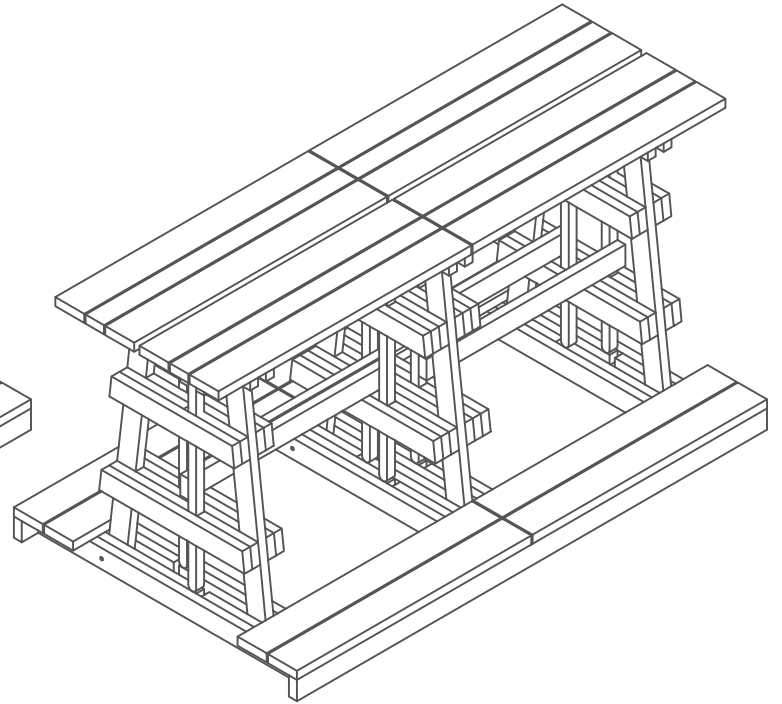
8



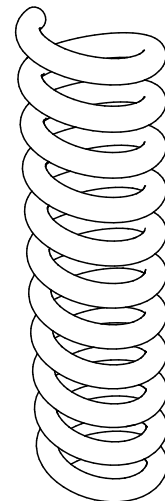
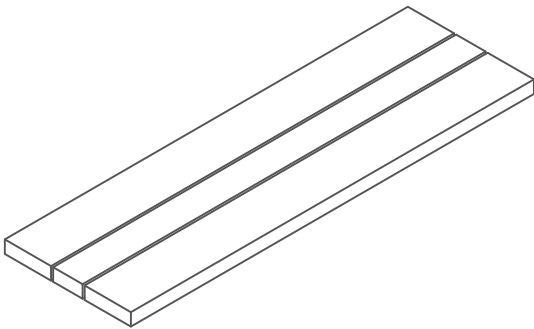
# ASSEMBLY



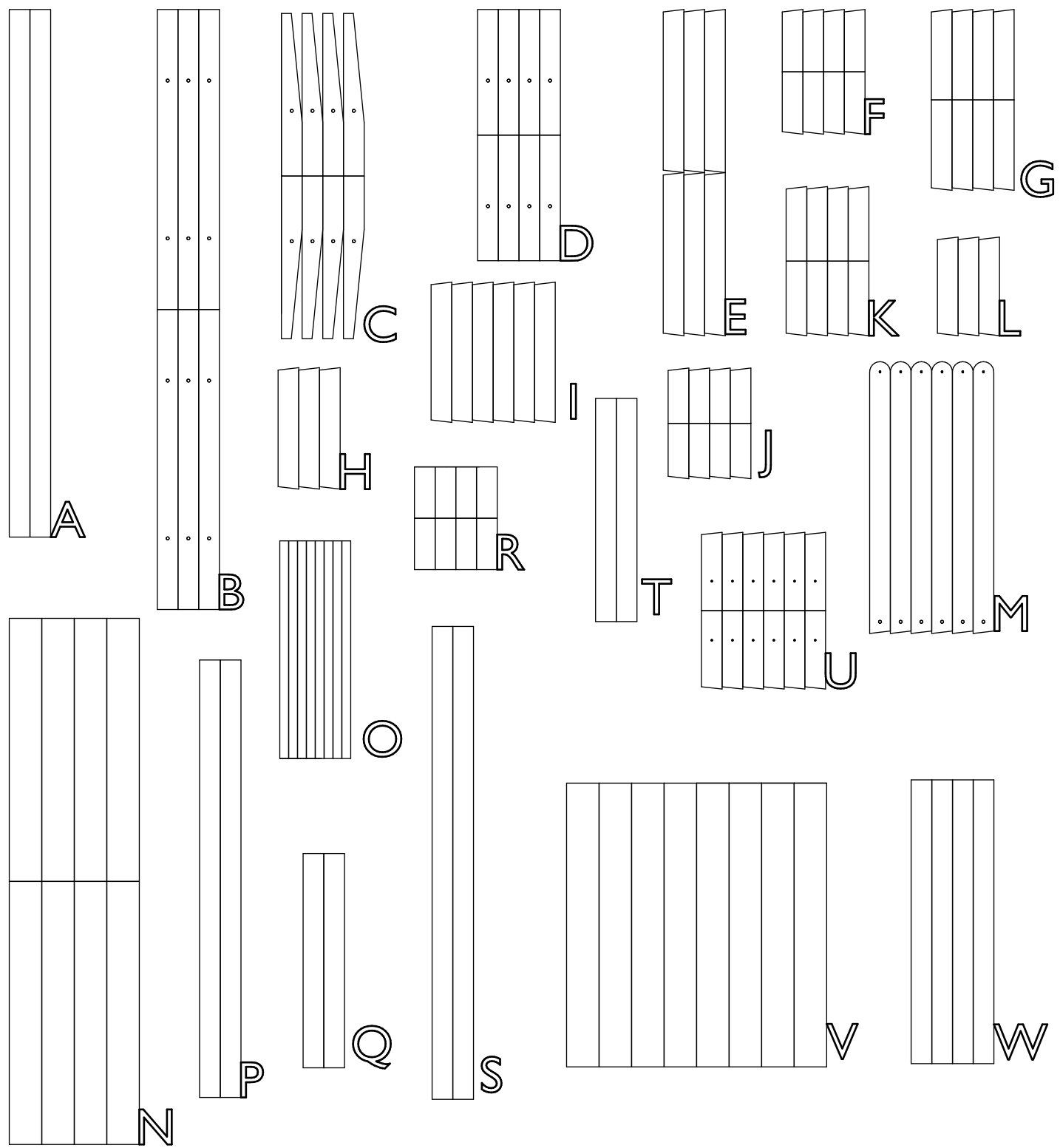
9



10



# ASSEMBLY



# PIECE: A

NOT TO SCALE

**Use:** Step 1 - Base

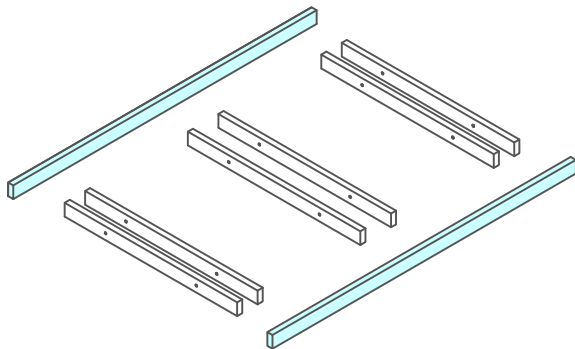
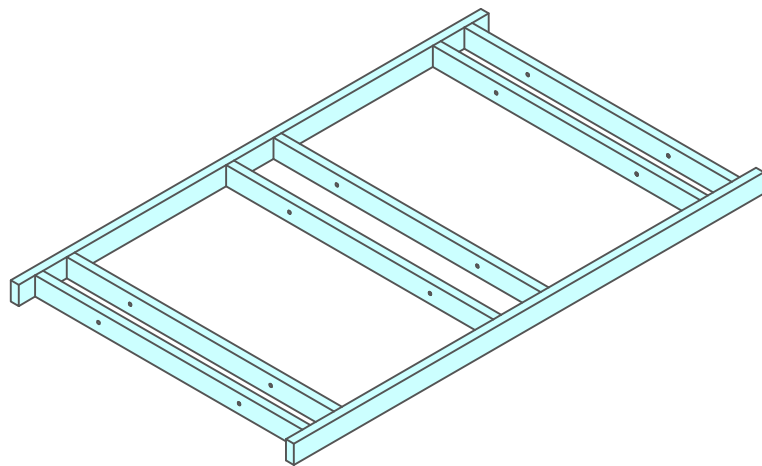
**Count:** 2

**Materials + Directions:**

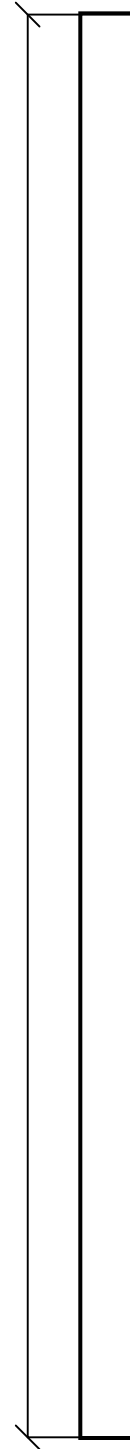
2x4 pressure treated lumber

1/8" Roundover all edges

Paint Blue.



89 1/4





# PIECE: B

NOT TO SCALE

**Use:** Step 1 - Base

**Count:** 6

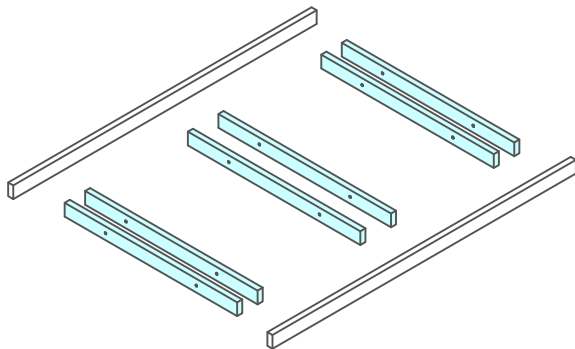
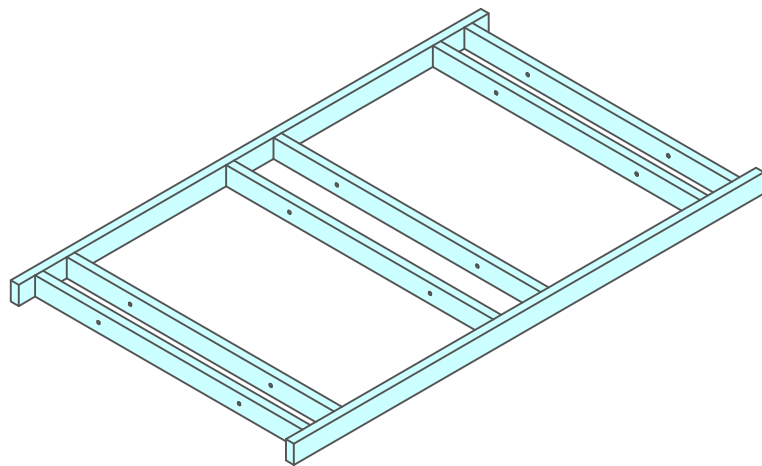
**Materials + Directions:**

2x4 pressure treated lumber

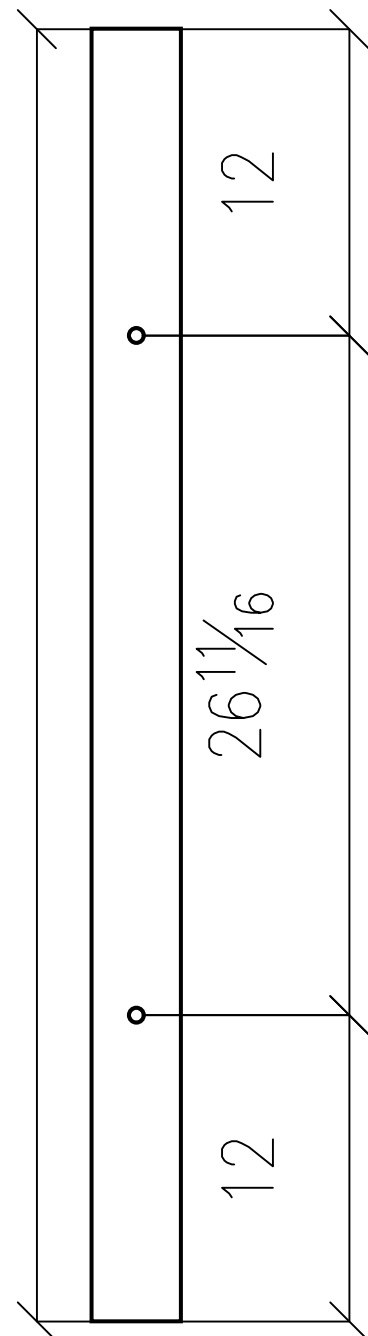
1/8" Roundover all edges

Paint Blue.

1/2" diameter hole to be drilled with leg assembly.



50<sup>3</sup>/<sub>4</sub>



# PIECE: C

NOT TO SCALE

**Use:** Step 2 - Levers

**Count:** 8

**Materials + Directions:**

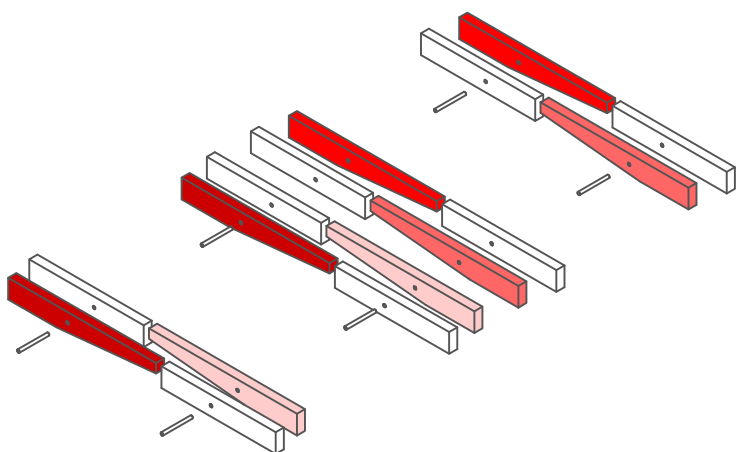
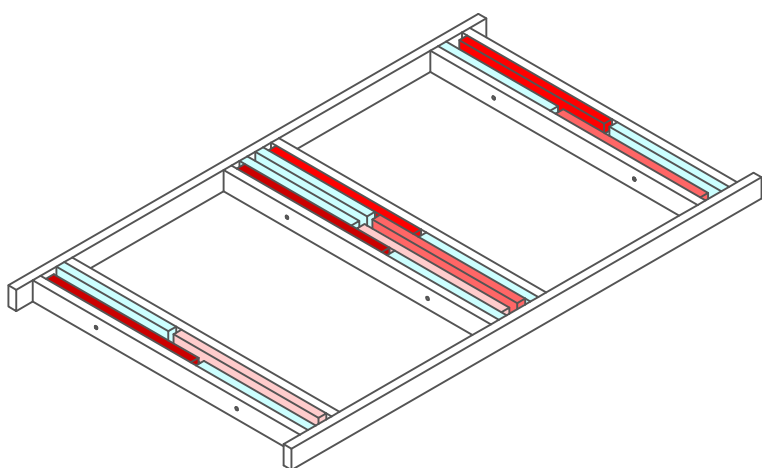
2x4 pressure treated lumber

1/8" Roundover all edges

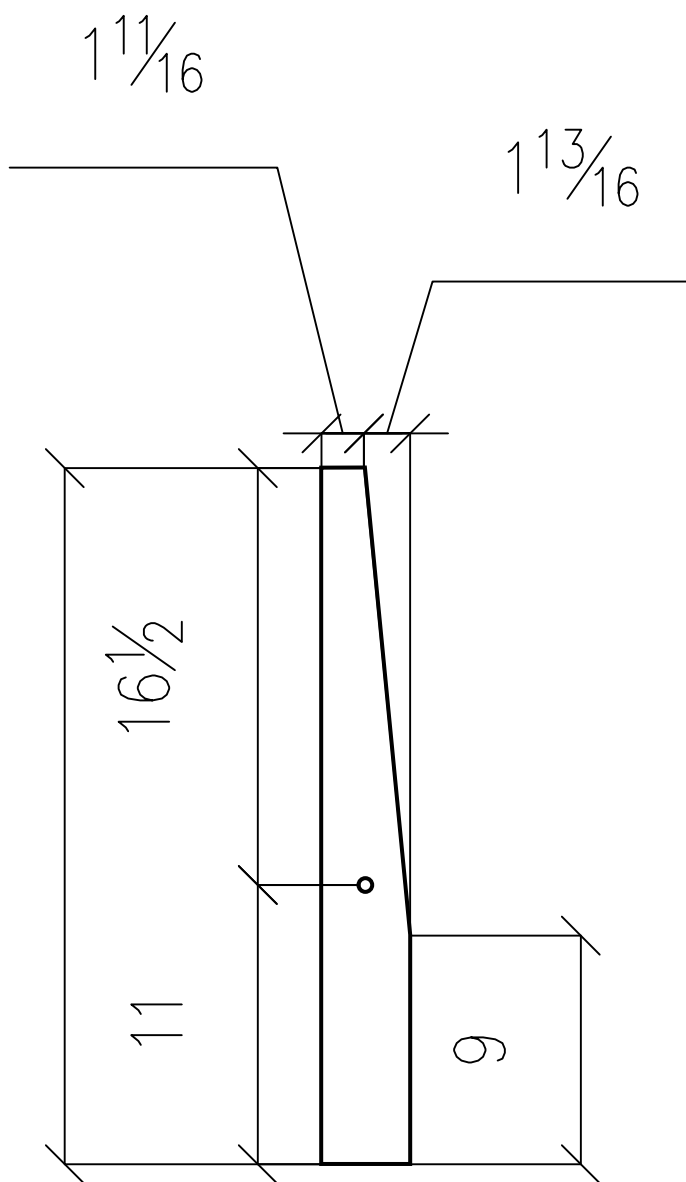
Paint Reds 1-4 such that each color is represented on two pieces.

1/2" diameter hole to be drilled with leg assembly.

Each piece is held off 1" from previously constructed part A.



27 1/2



# PIECE: D

NOT TO SCALE

**Use:** Step 2 - Levers

**Count:** 8

**Materials + Directions:**

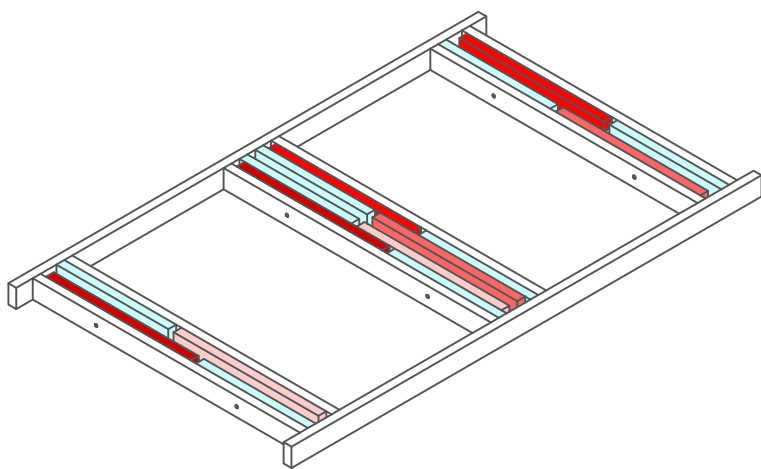
2x4 pressure treated lumber

1/8" Roundover all edges

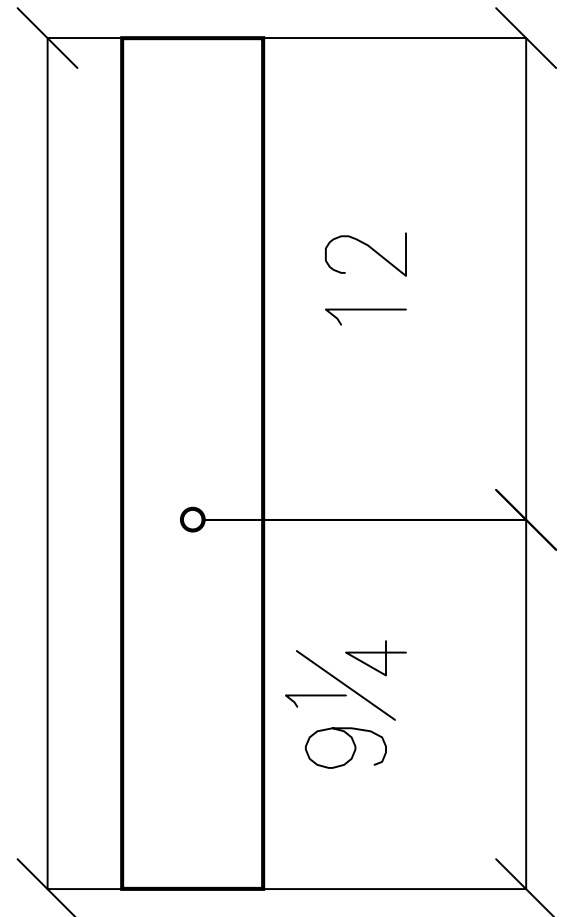
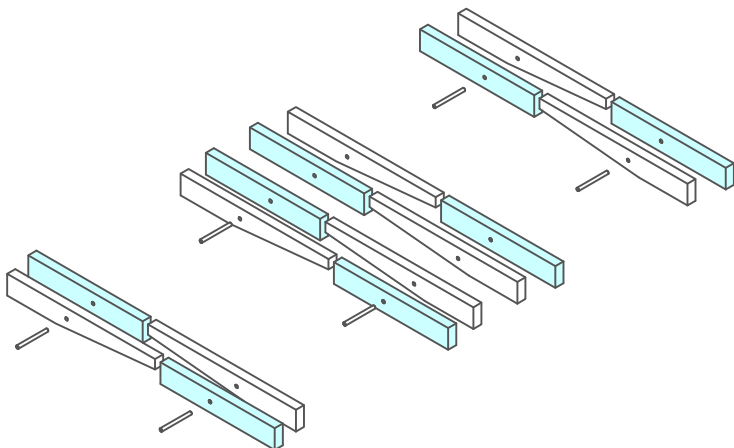
Paint Blue.

1/2" diameter hole to be drilled with leg assembly.

Screw in place from outside of part A.



21 1/4



# PIECE: E

NOT TO SCALE

**Use:** Step 3 - Lower Piston Track

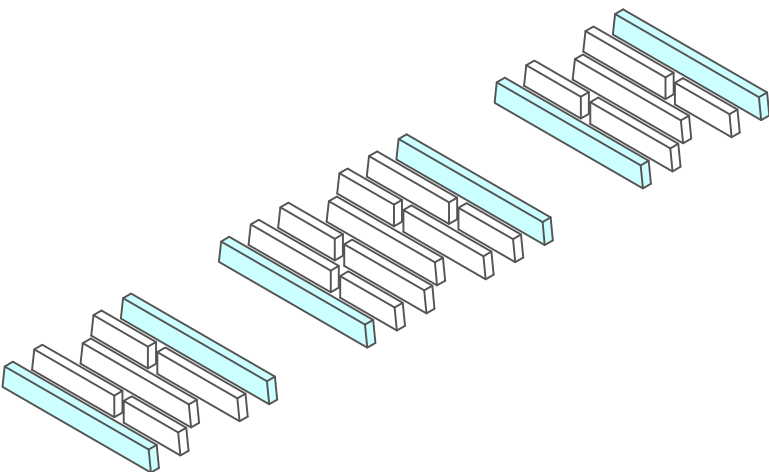
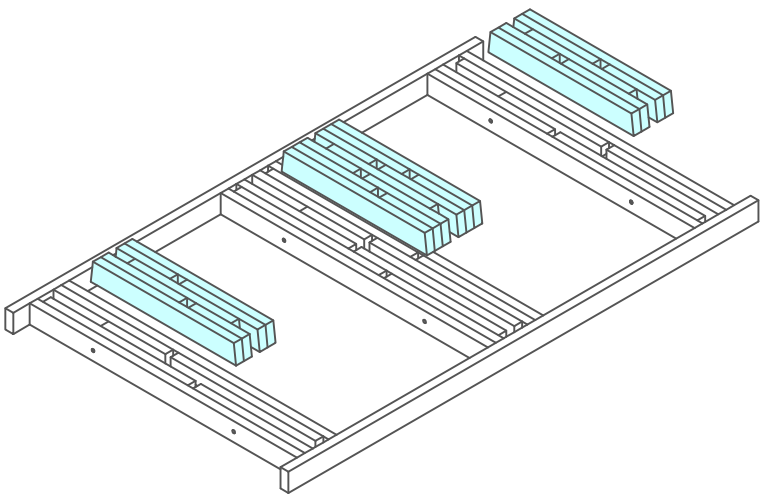
**Count:** 6

**Materials + Directions:**

2x4 pressure treated lumber

1/8" Roundover all edges

Paint Blue.



$\frac{7}{16}$

$26\frac{3}{4}$

$27\frac{9}{16}$

$\frac{7}{16}$

# PIECE: F

NOT TO SCALE

**Use:** Step 3 - Lower Piston Track

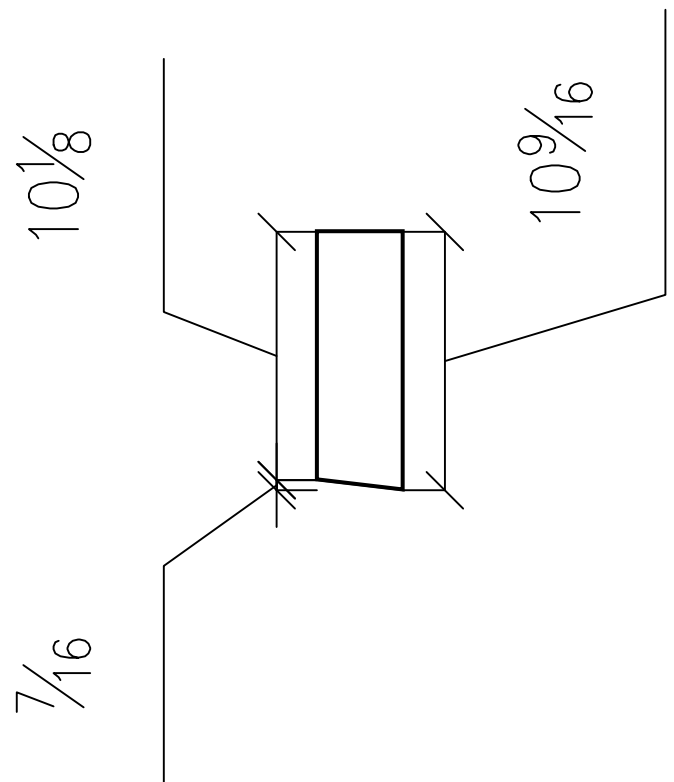
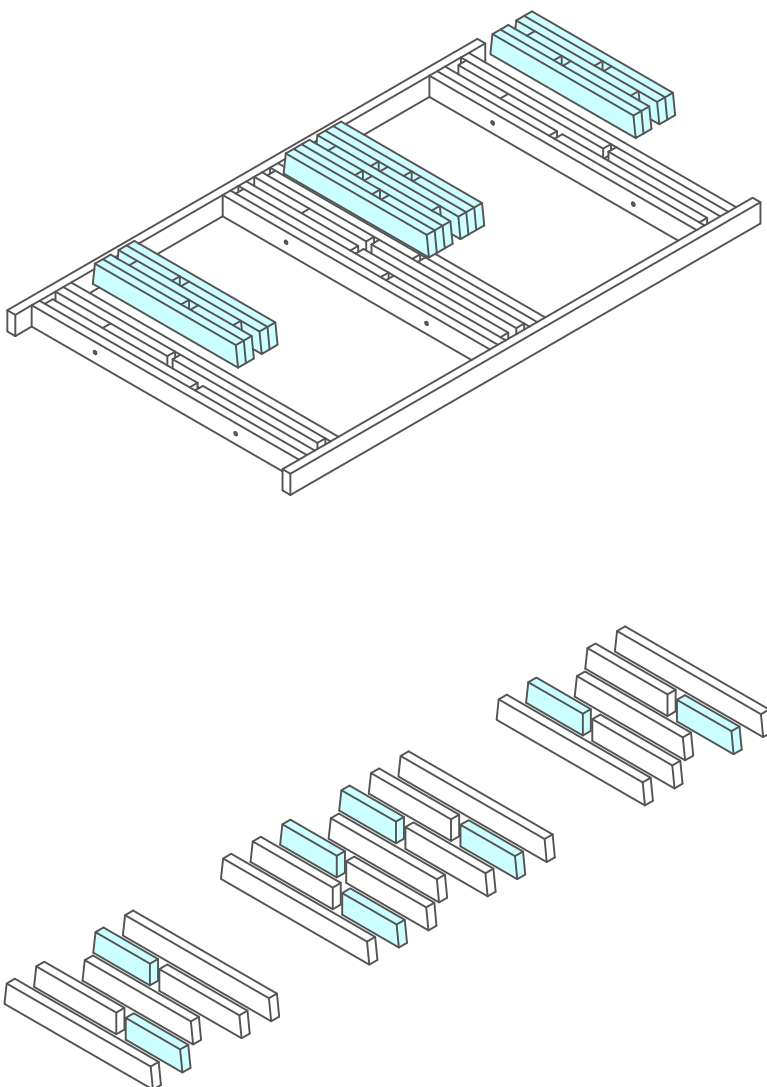
**Count:** 8

**Materials + Directions:**

2x4 pressure treated lumber

1/8" Roundover all edges

Paint Blue.



# PIECE: G

NOT TO SCALE

**Use:** Step 3 - Lower Piston Track

**Count:** 8

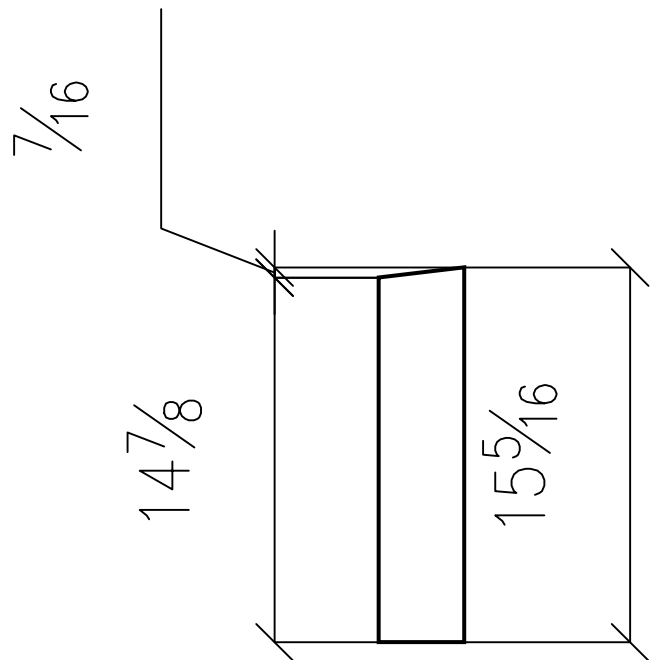
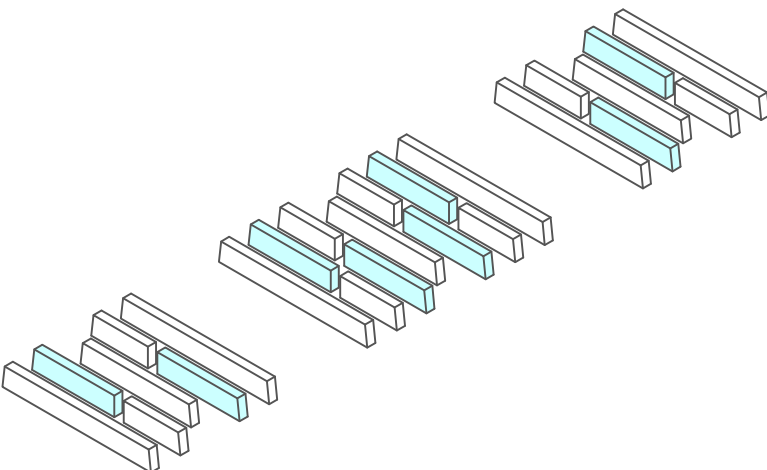
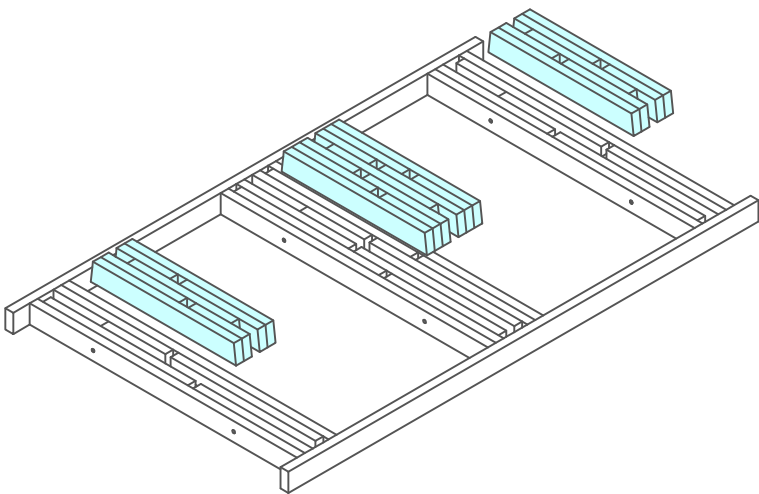
**Materials + Directions:**

2x4 pressure treated lumber

1/8" Roundover all edges

Paint Blue.

Align with angle cuts on outside pieces.



# PIECE: H

NOT TO SCALE

**Use:** Step 3 - Lower Piston Track

**Count:** 3

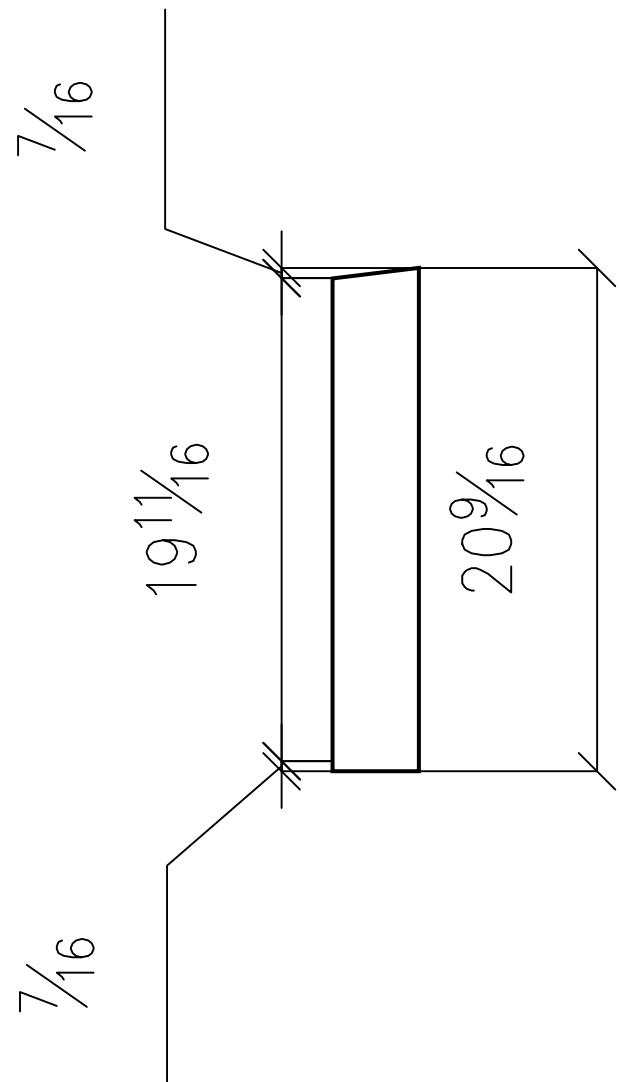
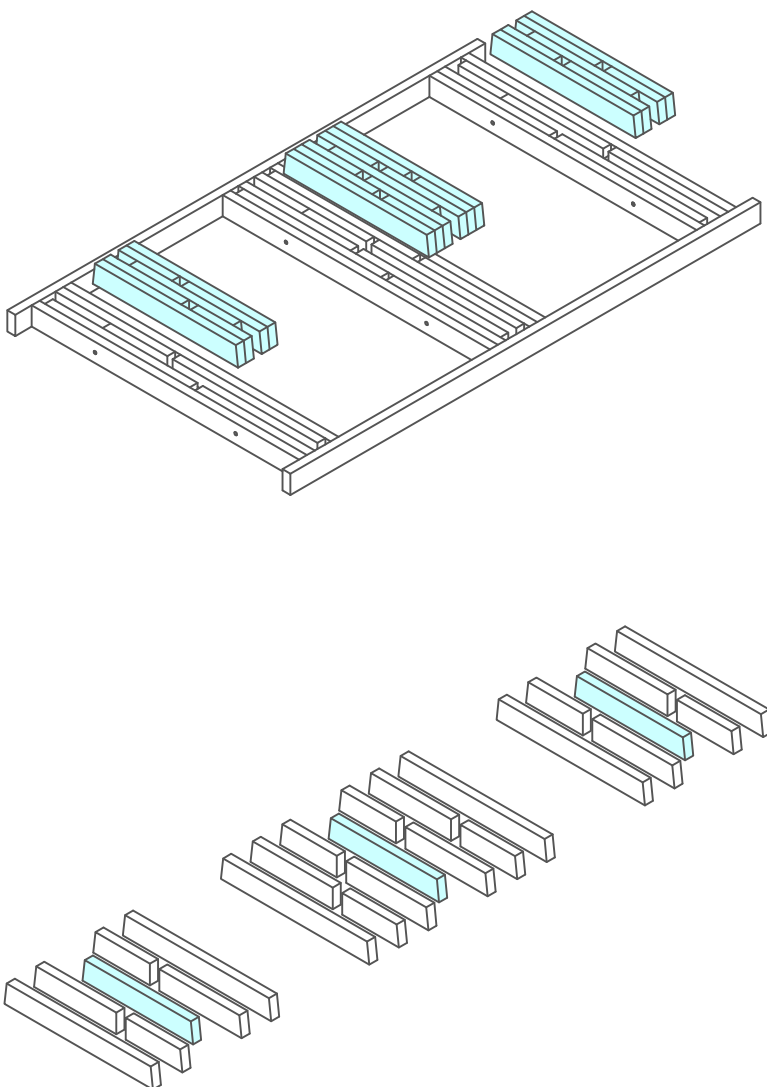
**Materials + Directions:**

2x4 pressure treated lumber

1/8" Roundover all edges

Paint Blue.

Align with angle cuts on outside pieces.



# PIECE: I

NOT TO SCALE

**Use:** Step 4 - Upper Piston Track

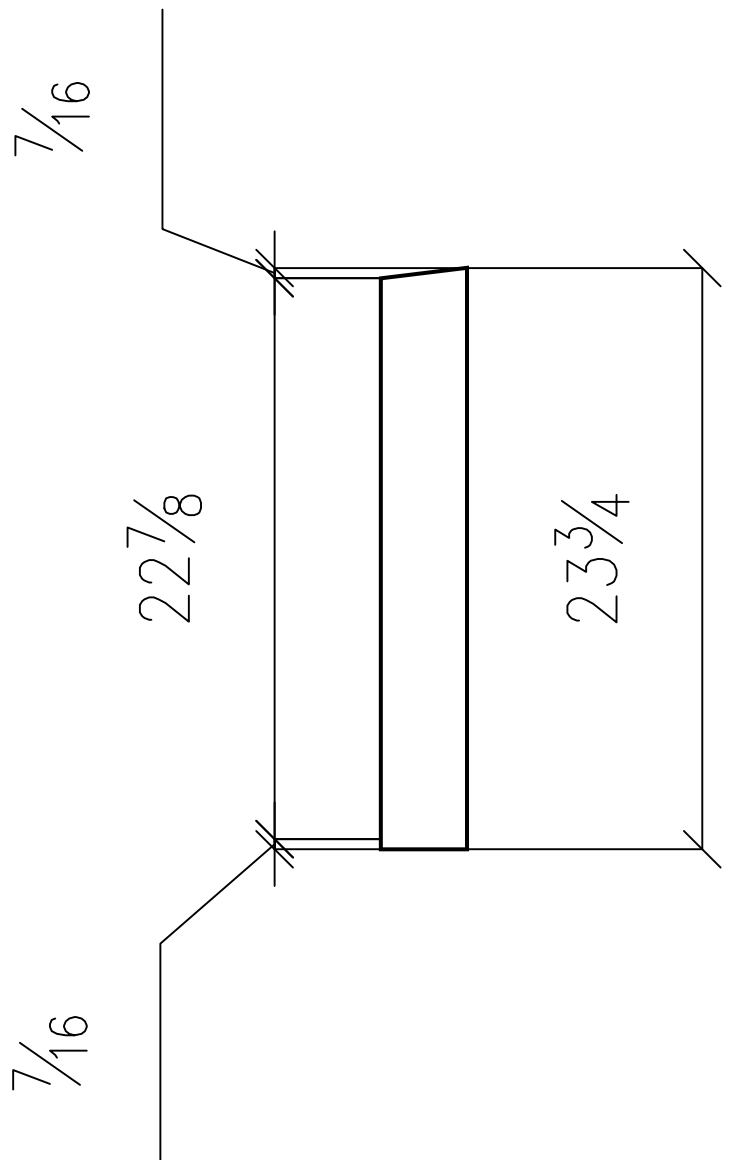
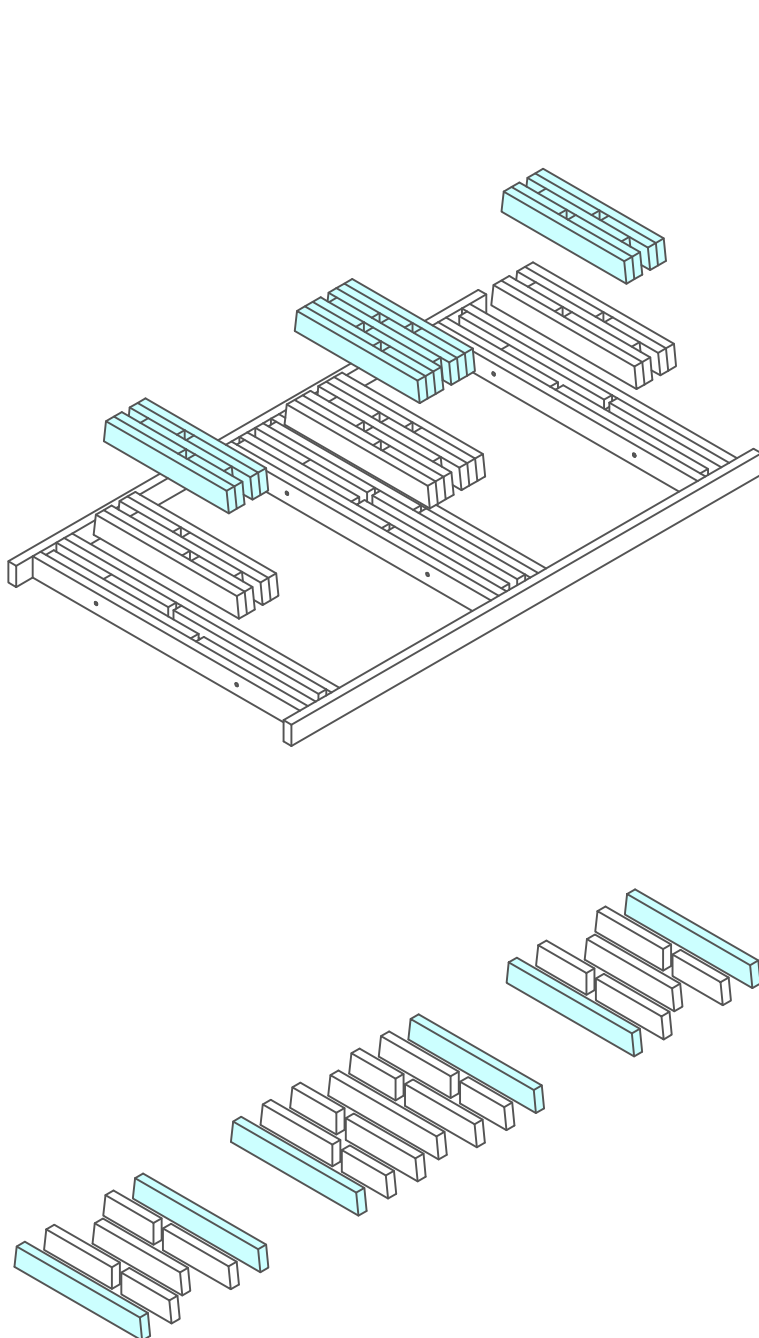
**Count:** 6

**Materials + Directions:**

2x4 pressure treated lumber

1/8" Roundover all edges

Paint Blue.





# PIECE: J

NOT TO SCALE

**Use:** Step 4 - Upper Piston Track

**Count:** 8

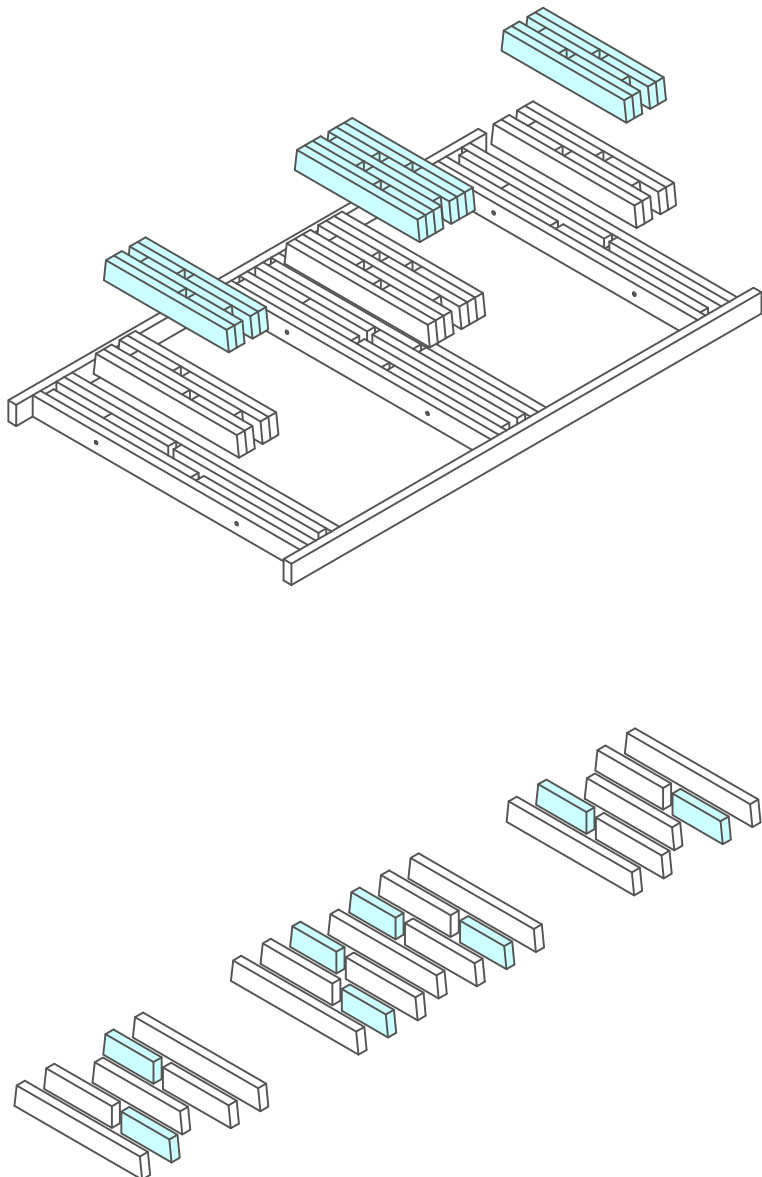
**Materials + Directions:**

2x4 pressure treated lumber

1/8" Roundover all edges

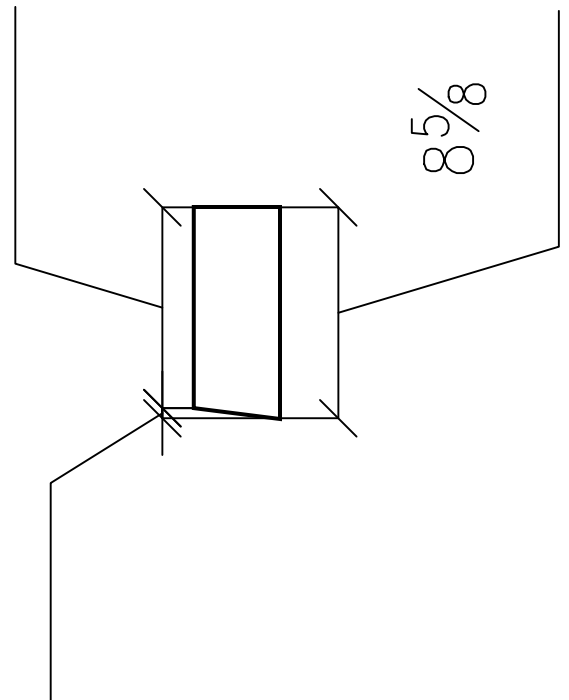
Paint Blue.

Align with Angle cuts on outside pieces.



$8\frac{3}{16}$

$7\frac{1}{16}$



# PIECE: K

NOT TO SCALE

**Use:** Step 4 - Upper Piston Track

**Count:** 6

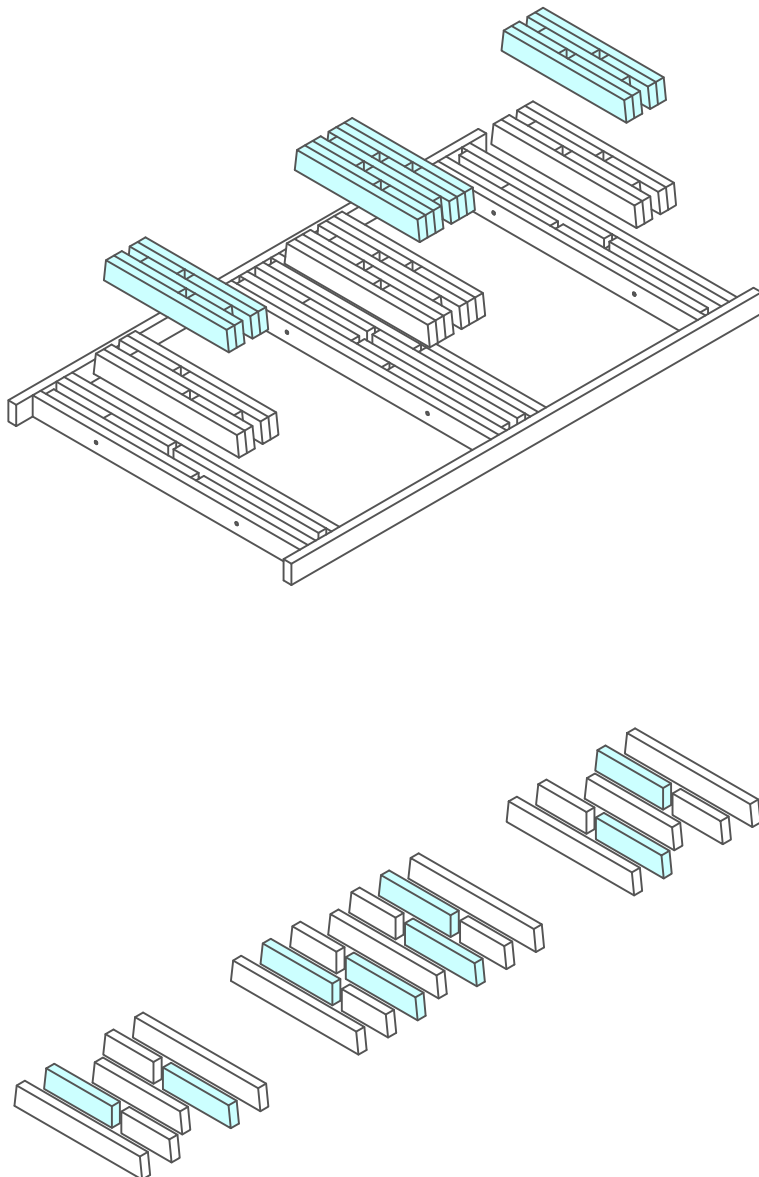
**Materials + Directions:**

2x4 pressure treated lumber

1/8" Roundover all edges

Paint Blue.

Align with angle cuts of outside pieces.



$\frac{7}{16}$

$12\frac{15}{16}$

$13\frac{5}{16}$

# PIECE: L

NOT TO SCALE

**Use:** Step 4 - Upper Piston Track

**Count:** 8

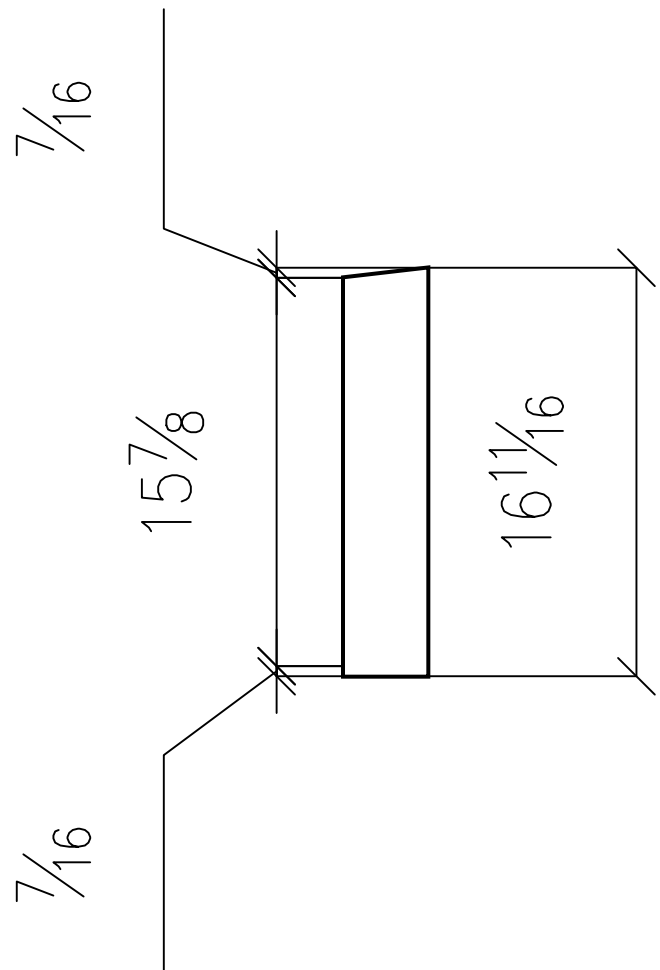
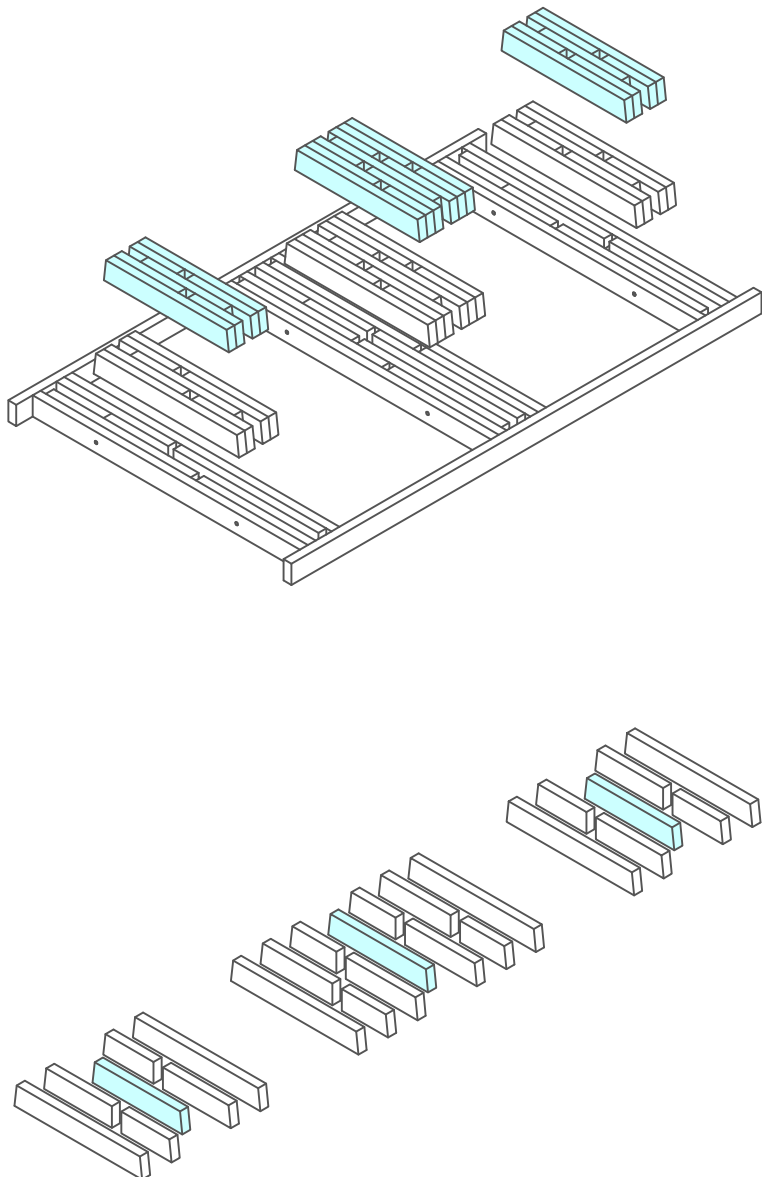
**Materials + Directions:**

2x4 pressure treated lumber

1/8" Roundover all edges

Paint Blue.

Align with angle cuts of outside pieces.



# PIECE: M

NOT TO SCALE

**Use:** Step 5 - Table Legs

**Count:** 6

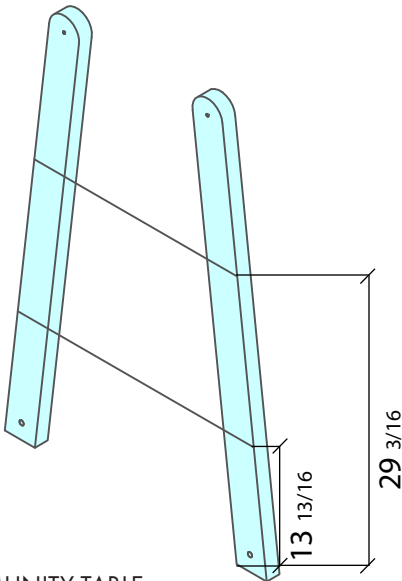
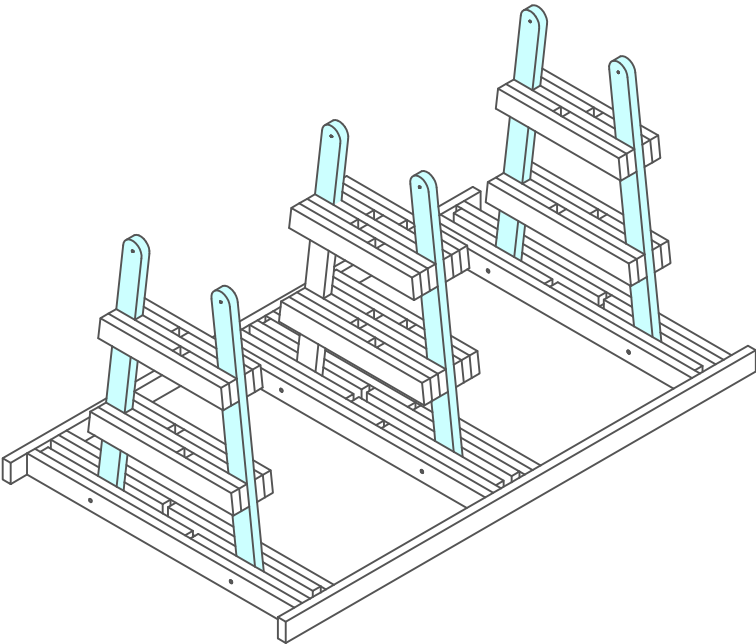
**Materials + Directions:**

2x4 pressure treated lumber

1/8" Roundover all edges

Paint Blue.

Slot between levers from step 2 and drill 1/2" hole for bolts at specified locations.



1 3/4

1 7/8

46

42 5/16

43 11/16

1 15/16

7/16

# PIECE: N

NOT TO SCALE

**Use:** Step 6 - Foot Bench

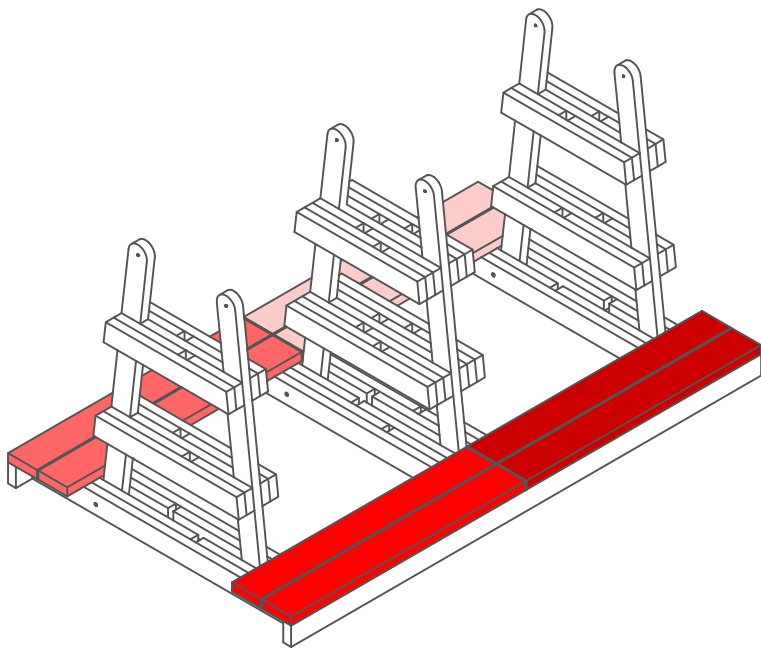
**Count:** 8

**Materials + Directions:**

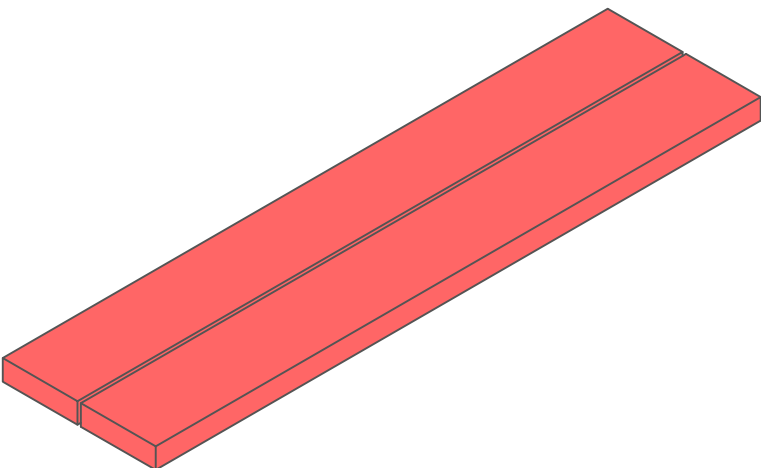
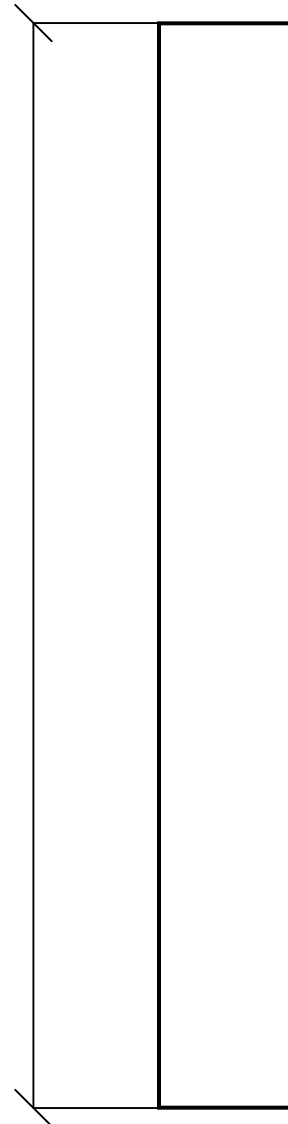
2x6 pressure treated lumber

1/8" Roundover all edges

Paint such that all Red Paint shades are prepresented on two pieces and attach to like colored levers (piece C)



44 1/2



# PIECE: O

NOT TO SCALE

**Use:** Step 7 - Red 4 Piston

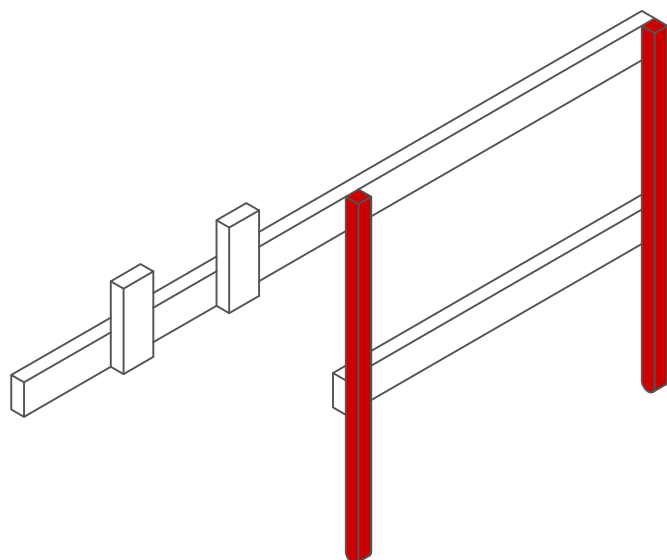
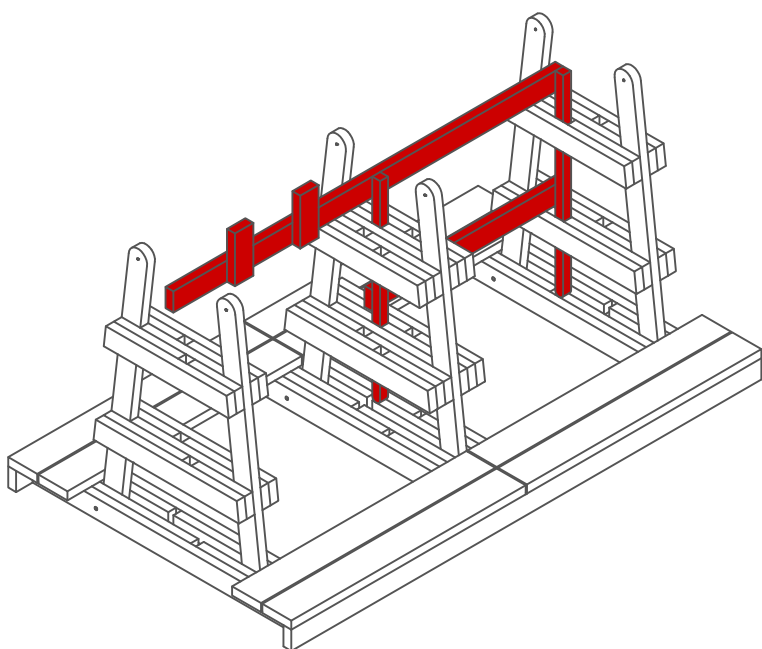
**Count:** 2

**Materials + Directions:**

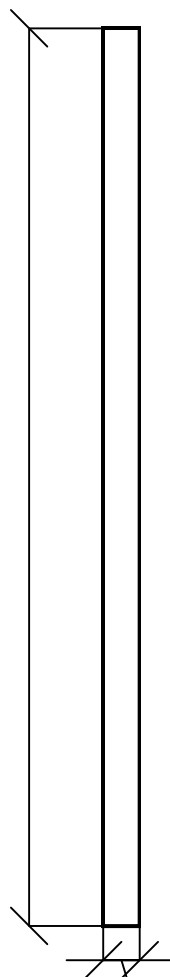
2x4 pressure treated lumber ripped in half to 1-1/2"

1/8" Roundover all edges

Paint Red 4.



36<sup>13</sup>/<sub>16</sub>



1<sup>1</sup>/<sub>2</sub>

# PIECE: P

NOT TO SCALE

**Use:** Step 7 - Red 4 Piston

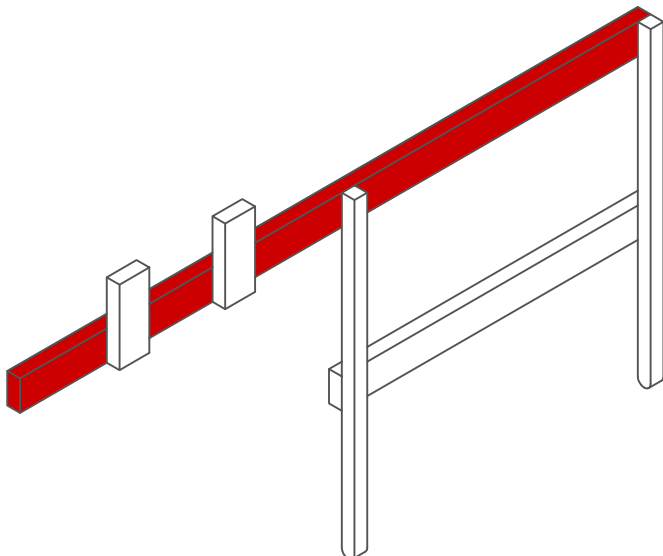
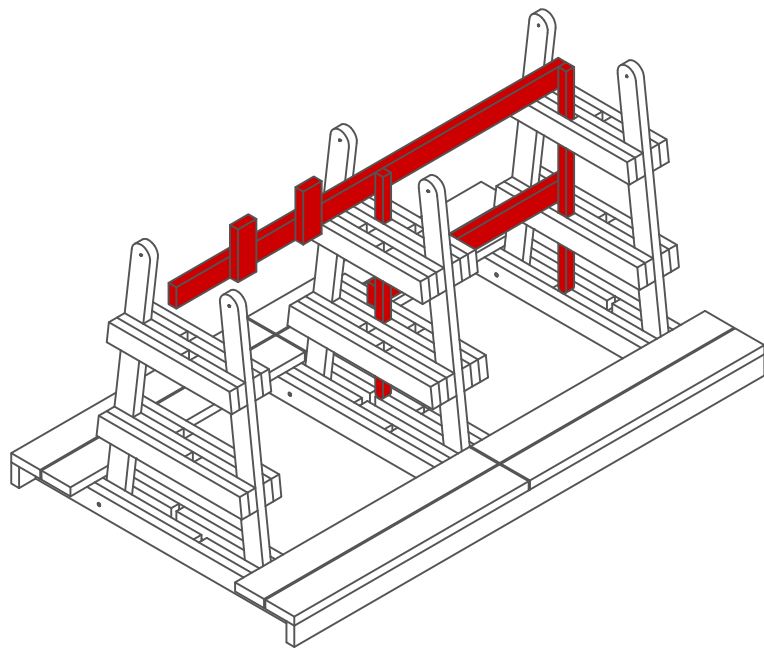
**Count:** 1

**Materials + Directions:**

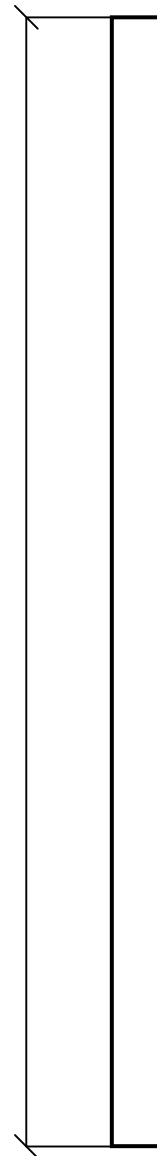
2x4 pressure treated lumber

1/8" Roundover all edges

Paint Red 4.



74



# PIECE: Q

NOT TO SCALE

**Use:** Step 7 - Red 4 Piston

**Count:** 1

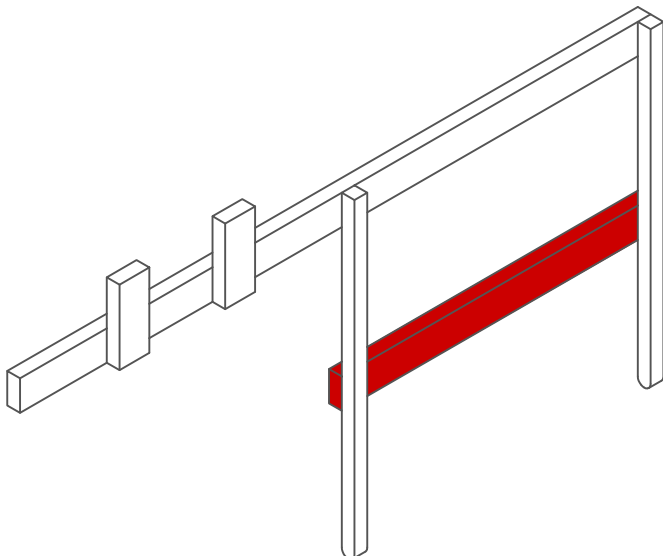
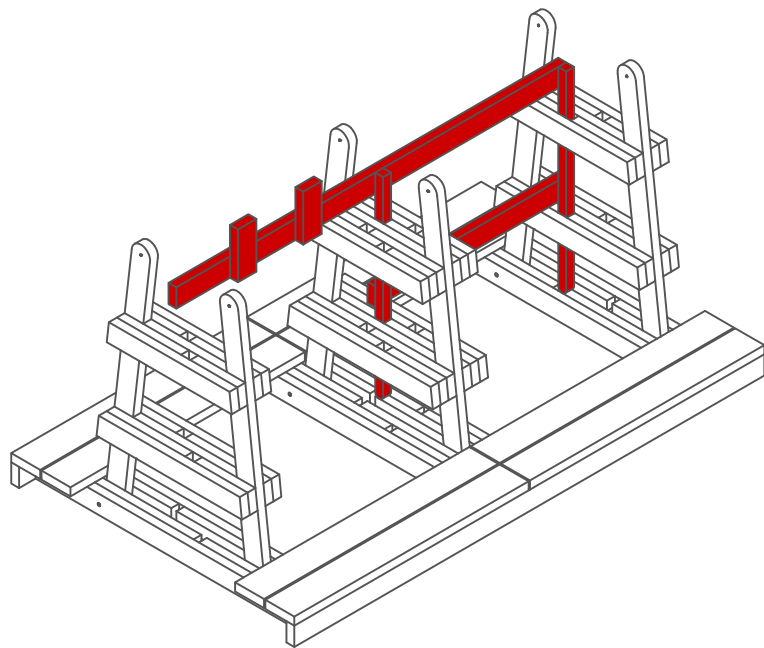
**Materials + Directions:**

2x4 pressure treated

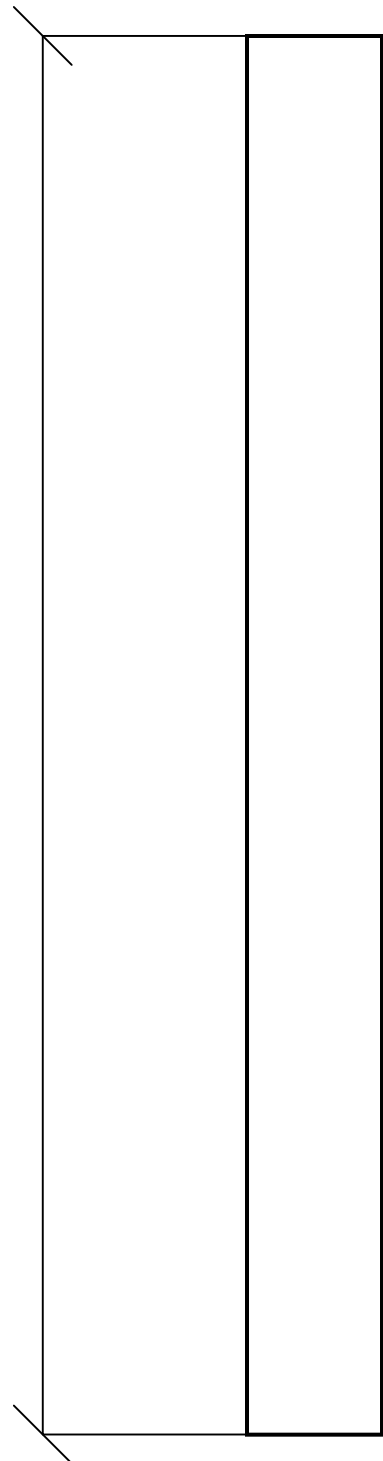
1/8" Roundover all edges

Paint Red 4.

Attach 18-11/16" from Piece P.



36 1/4





# PIECE: R

NOT TO SCALE

**Use:** Step 7 - Red 4 Piston

**Count:** 2

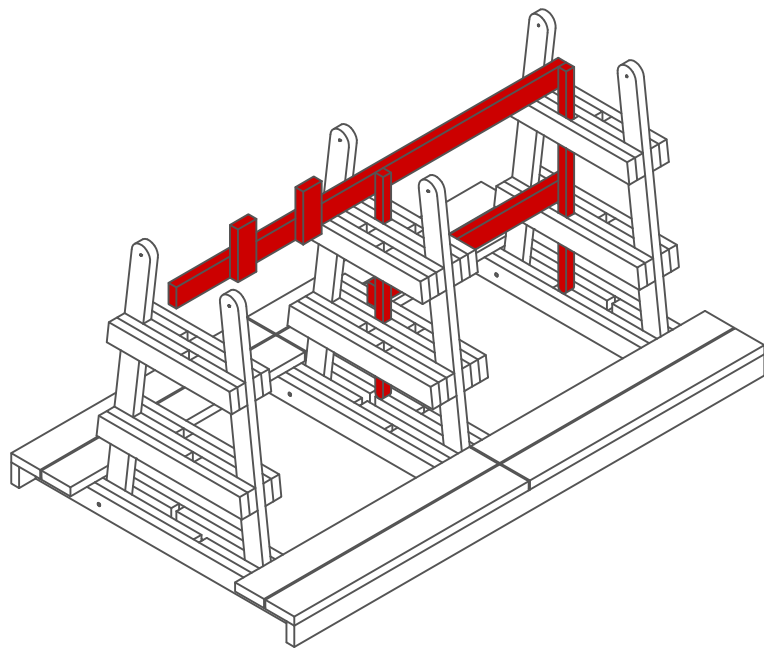
**Materials + Directions:**

2x4 pressure treated

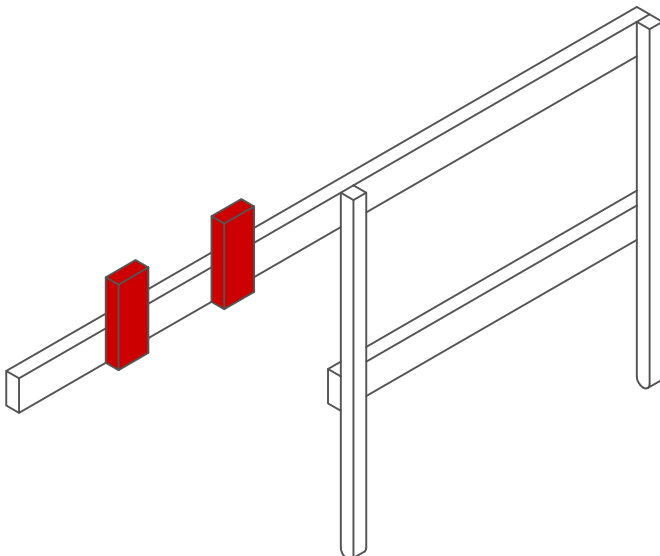
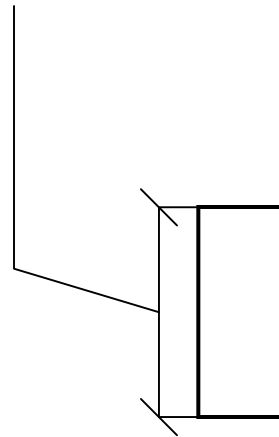
1/8" Roundover all edges

Paint Red 4.

Attach 10-13/16" from end of board and 8-7/8" between each other.



8 11/16



# PIECE: O

NOT TO SCALE

**Use:** Step 7 - Red 3 Piston

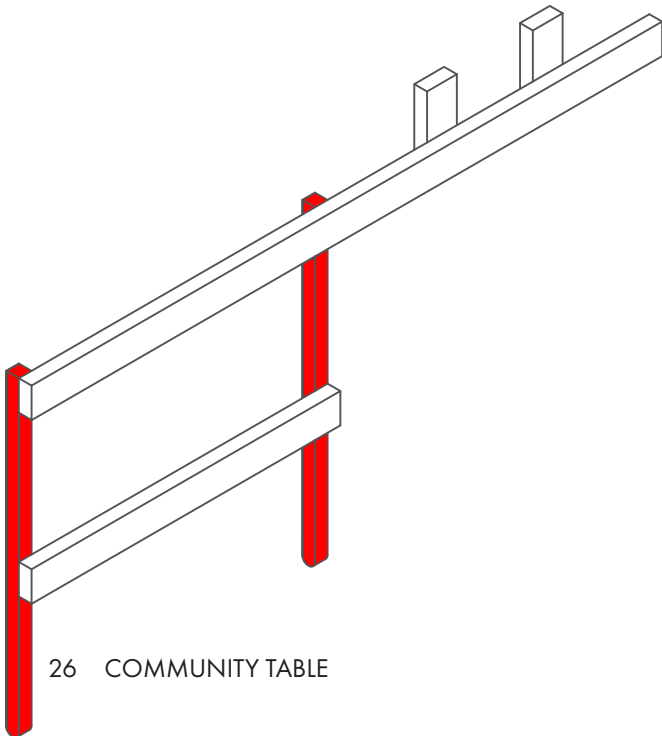
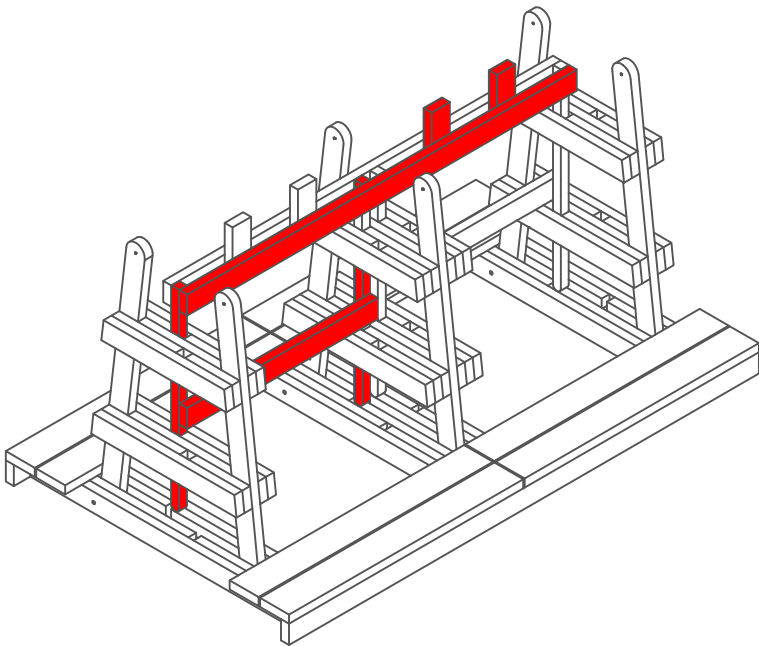
**Count:** 2

**Materials + Directions:**

2x4 pressure treated lumber ripped in half to 1-1/2"

1/8" Roundover all edges

Paint Red 3.



36 13/16

1 1/2

# PIECE: P

NOT TO SCALE

**Use:** Step 7 - Red 3 Piston

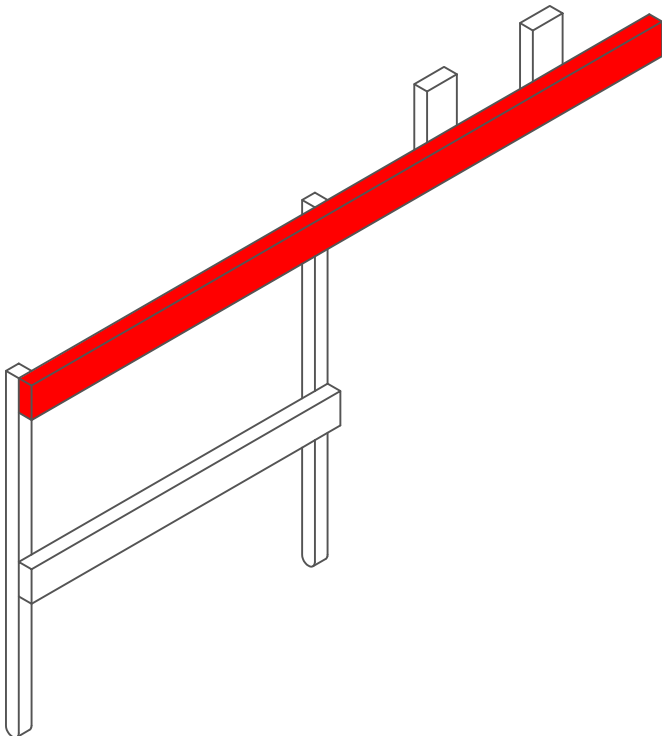
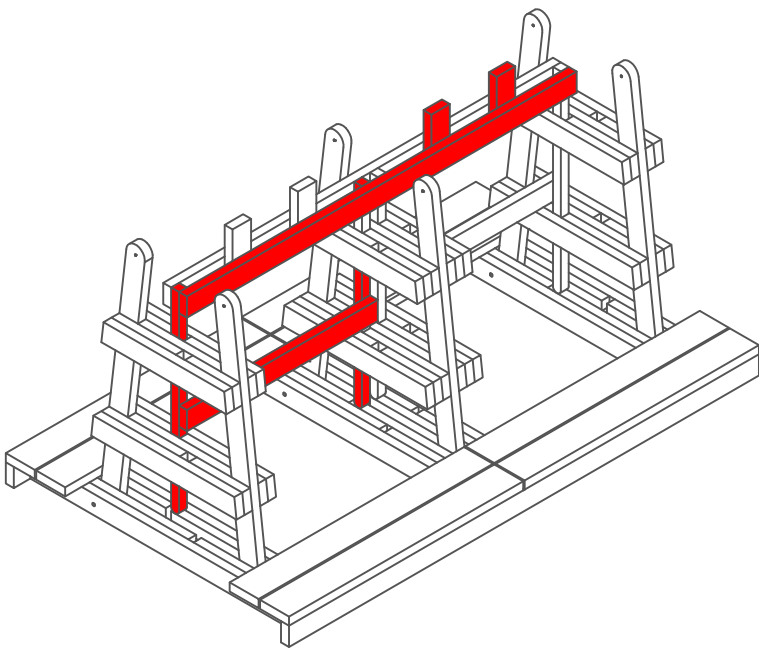
**Count:** 1

**Materials + Directions:**

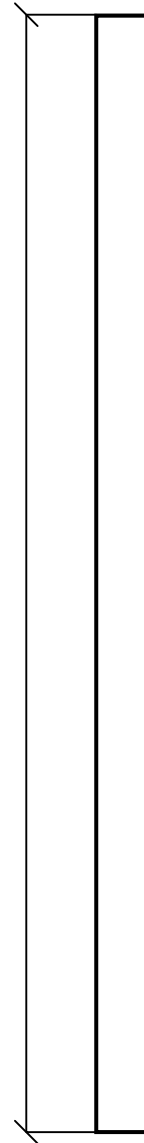
2x4 pressure treated lumber

1/8" Roundover all edges

Paint Red 3.



74



# PIECE: Q

NOT TO SCALE

**Use:** Step 7 - Red 3 Piston

**Count:** 1

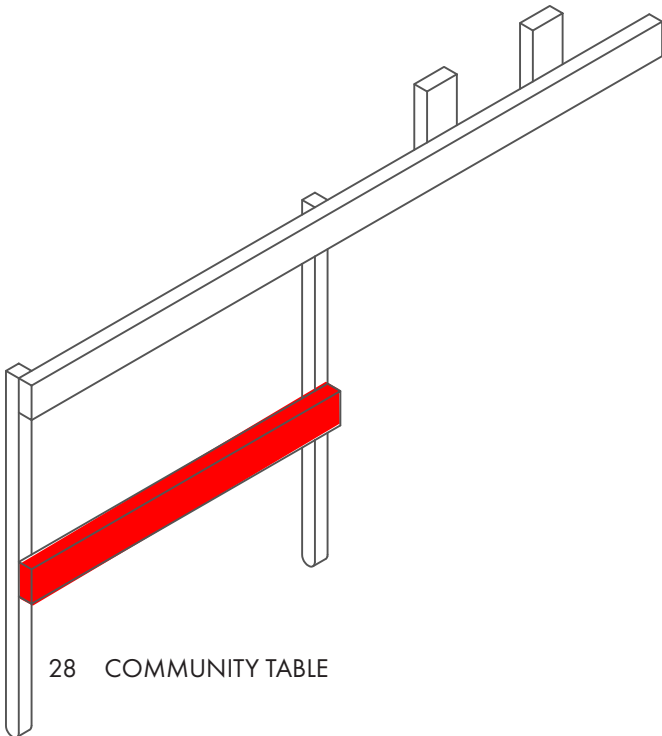
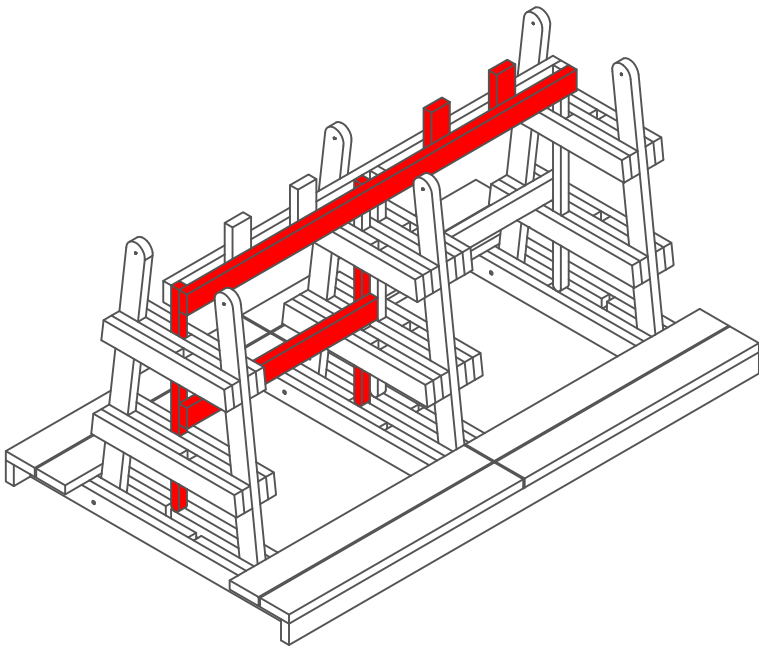
**Materials + Directions:**

2x4 pressure treated

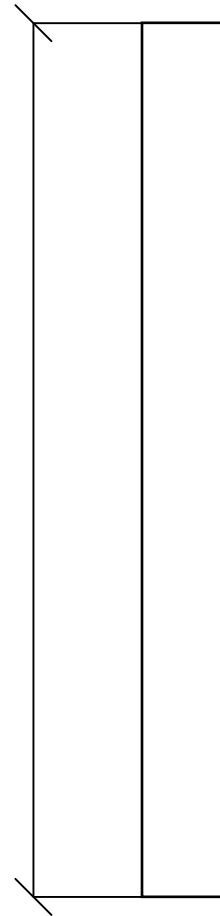
1/8" Roundover all edges

Paint Red 3.

Attach 18-11/16" from Piece P.



36 1/4



# PIECE: R

NOT TO SCALE

**Use:** Step 7 - Red 3 Piston

**Count:** 2

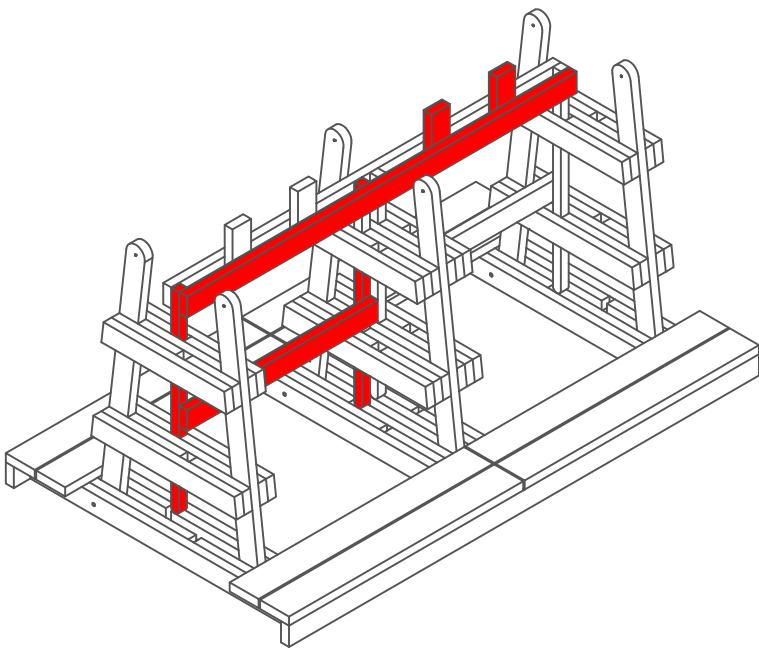
**Materials + Directions:**

2x4 pressure treated

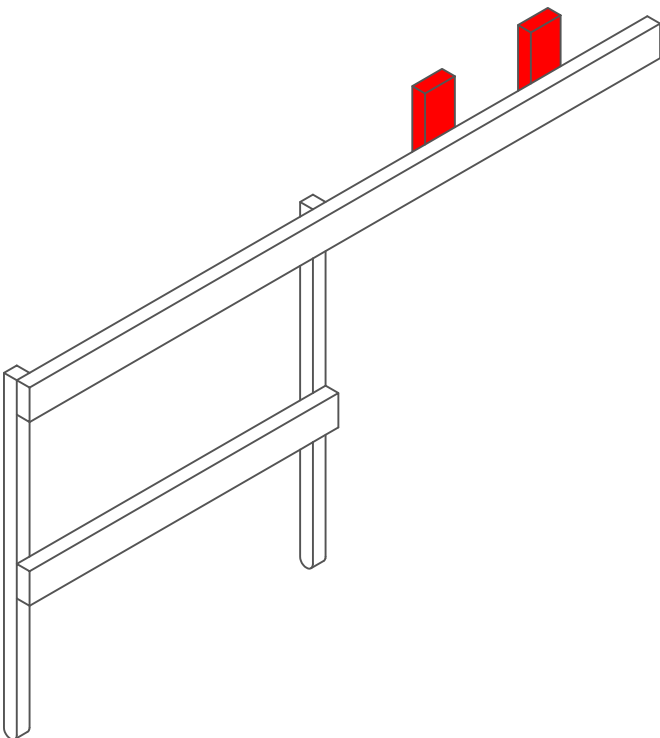
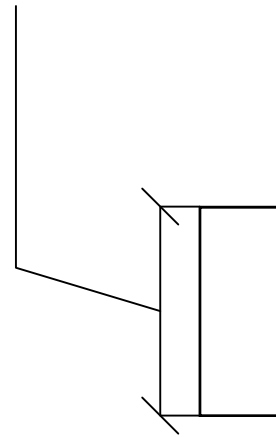
1/8" Roundover all edges

Paint Red 3.

Attach 10-13/16" from end of board and 8-7/8" between each other.



8 11/16



# PIECE: O

NOT TO SCALE

**Use:** Step 7 - Red 2 Piston

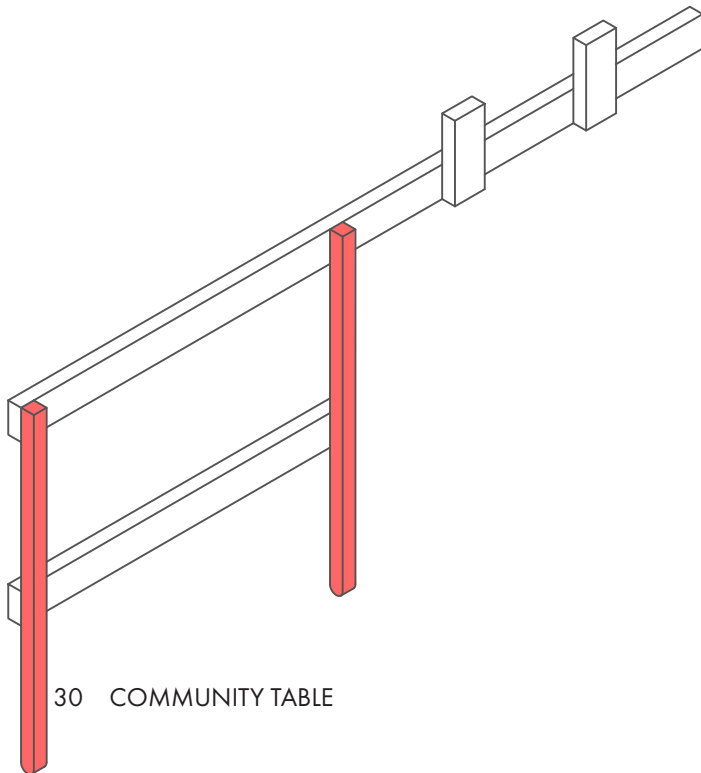
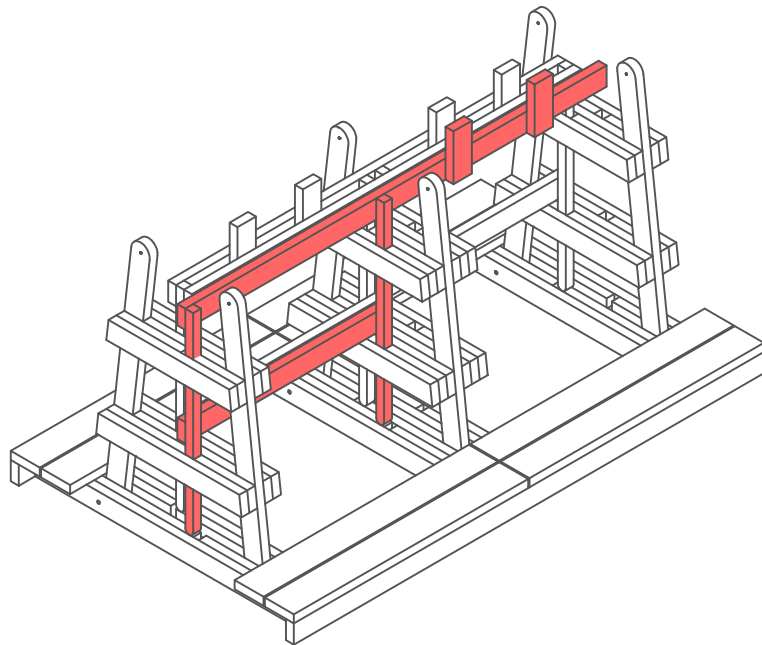
**Count:** 2

**Materials + Directions:**

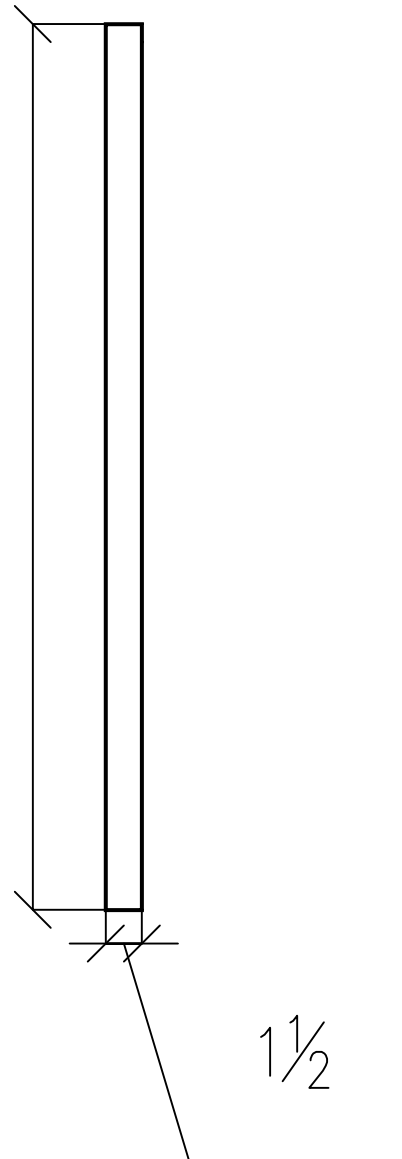
2x4 pressure treated lumber ripped in half to 1-1/2"

1/8" Roundover all edges

Paint Red 2.



$36\frac{13}{16}$



# PIECE: S

NOT TO SCALE

**Use:** Step 7 - Red 2 Piston

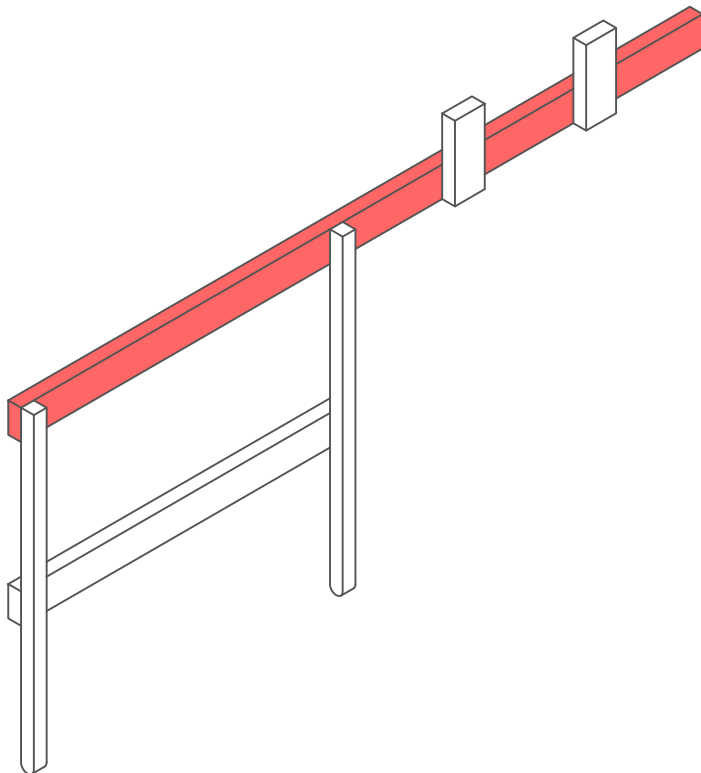
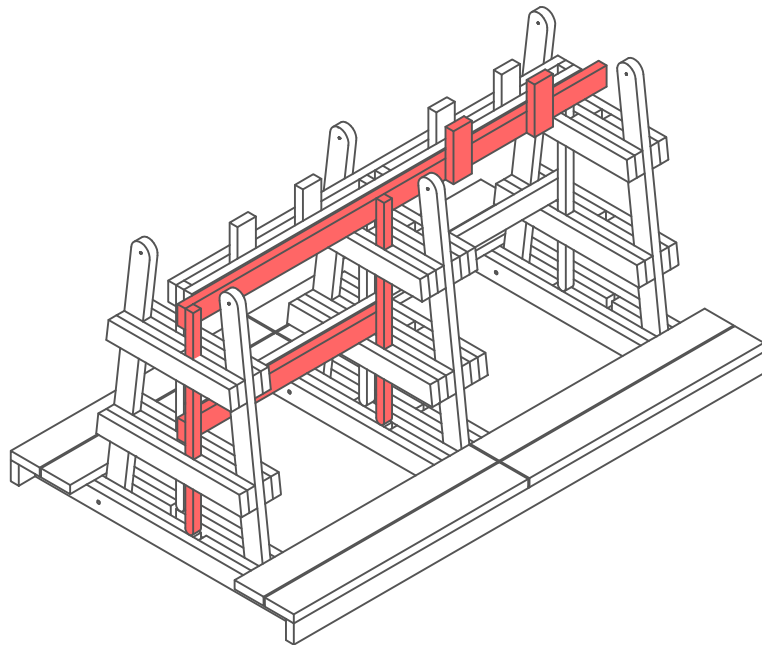
**Count:** 1

**Materials + Directions:**

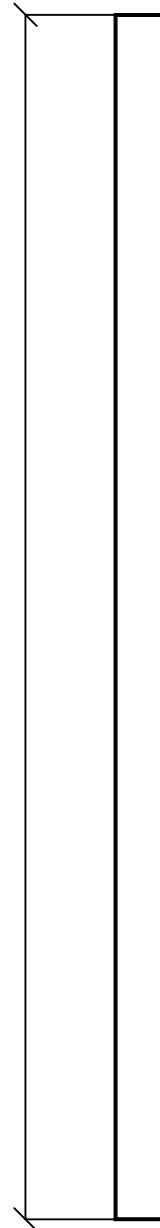
2x4 pressure treated lumber

1/8" Roundover all edges

Paint Red 2.



80



# PIECE: T

NOT TO SCALE

**Use:** Step 7 - Red 2 Piston

**Count:** 1

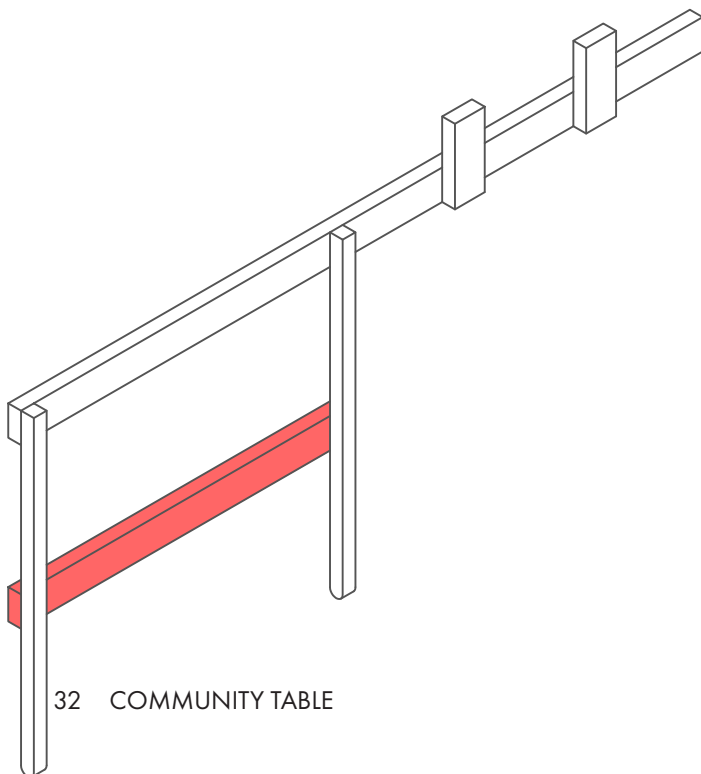
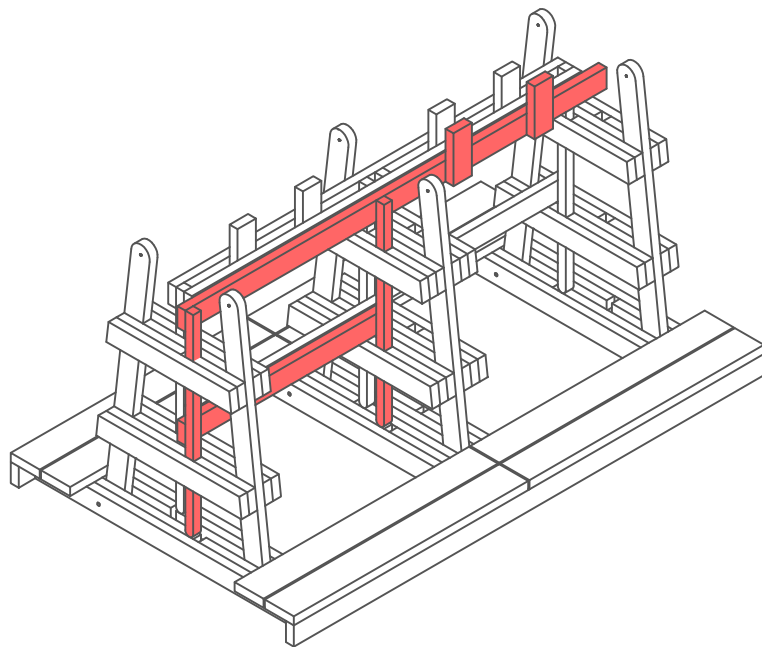
**Materials + Directions:**

2x4 pressure treated

1/8" Roundover all edges

Paint Red 2.

Attach 18-11/16" from Piece P.



37<sup>3</sup>/<sub>4</sub>





# PIECE: R

NOT TO SCALE

**Use:** Step 7 - Red 2 Piston

**Count:** 2

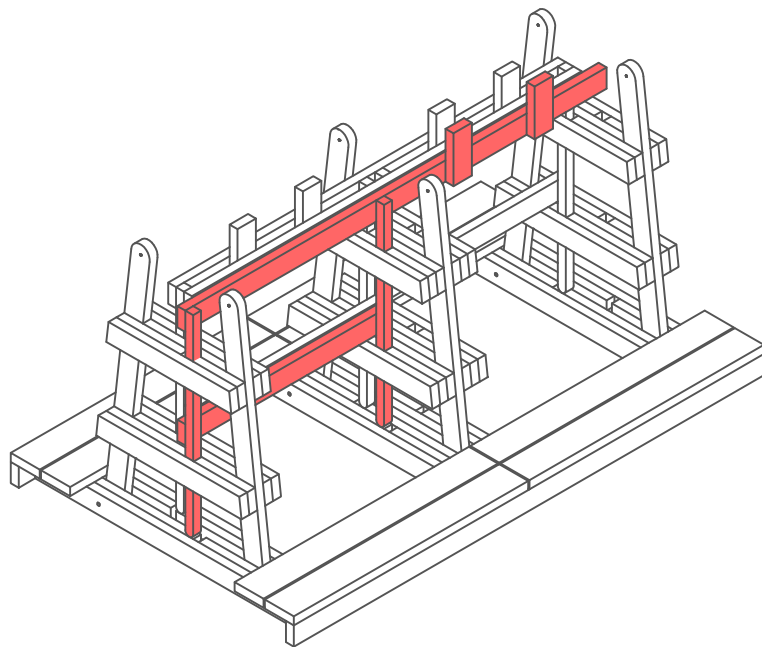
**Materials + Directions:**

2x4 pressure treated

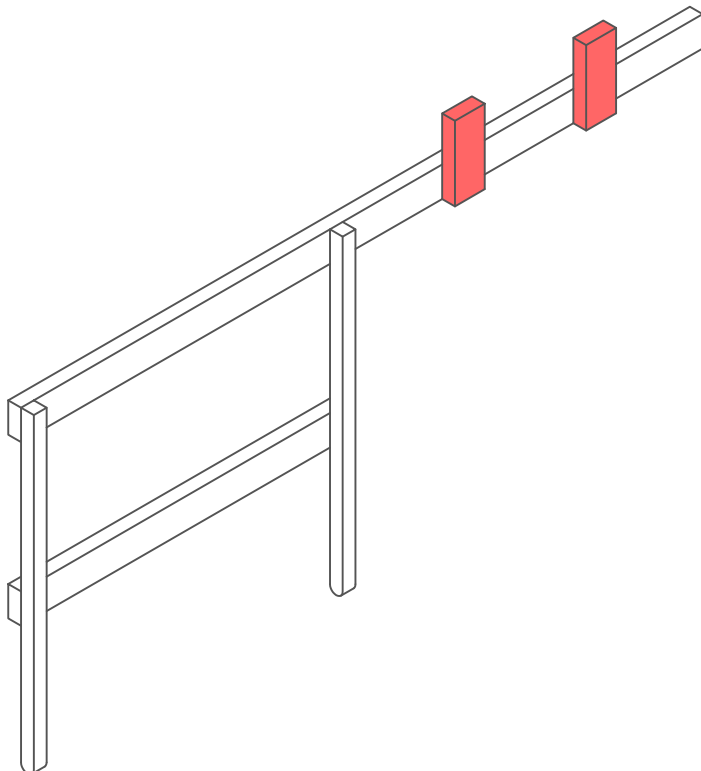
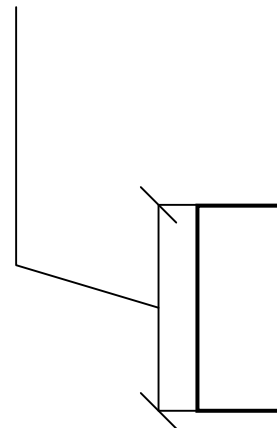
1/8" Roundover all edges

Paint Red 2.

Attach 11-11/16" from end of board and 11-7/8" between each other.



8 11/16



# PIECE: O

NOT TO SCALE

**Use:** Step 7 - Red 1 Piston

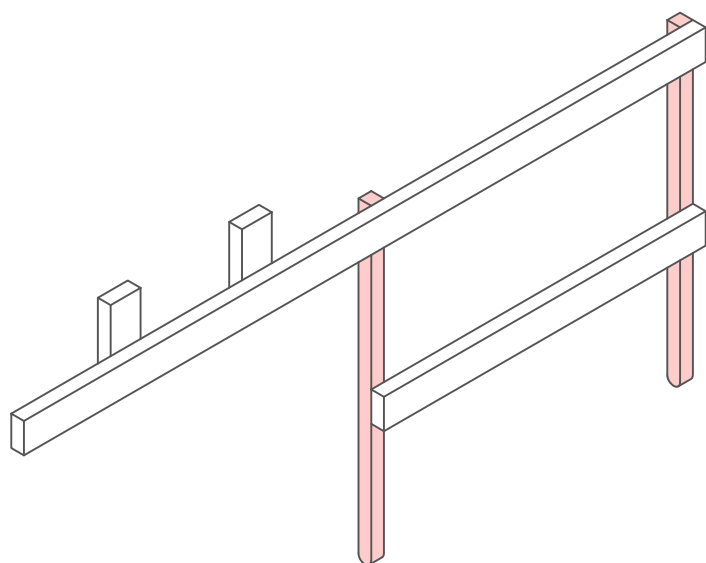
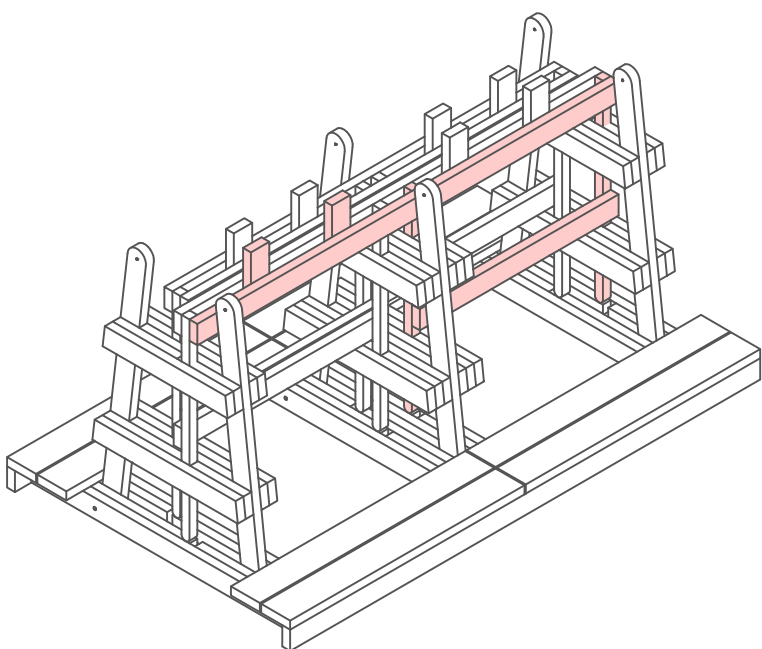
**Count:** 2

**Materials + Directions:**

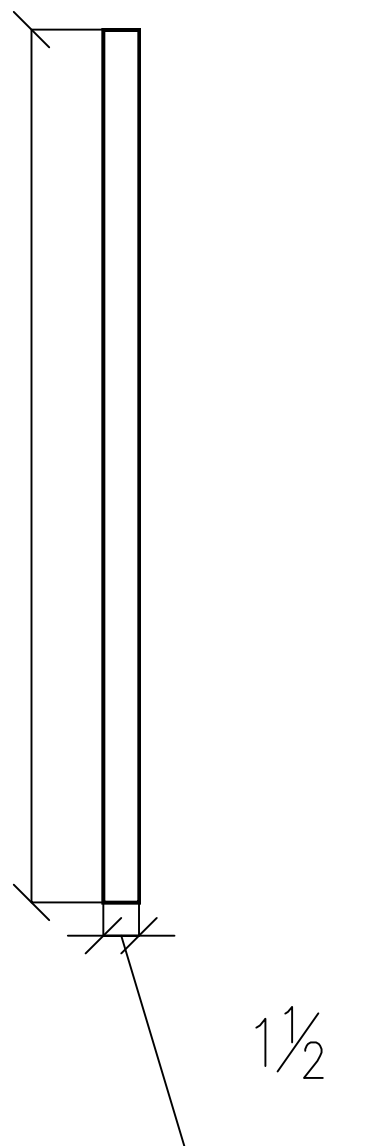
2x4 pressure treated lumber ripped in half to 1-1/2"

1/8" Roundover all edges

Paint Red 1.



36<sup>13</sup>/<sub>16</sub>



# PIECE: S

NOT TO SCALE

**Use:** Step 7 - Red 1 Piston

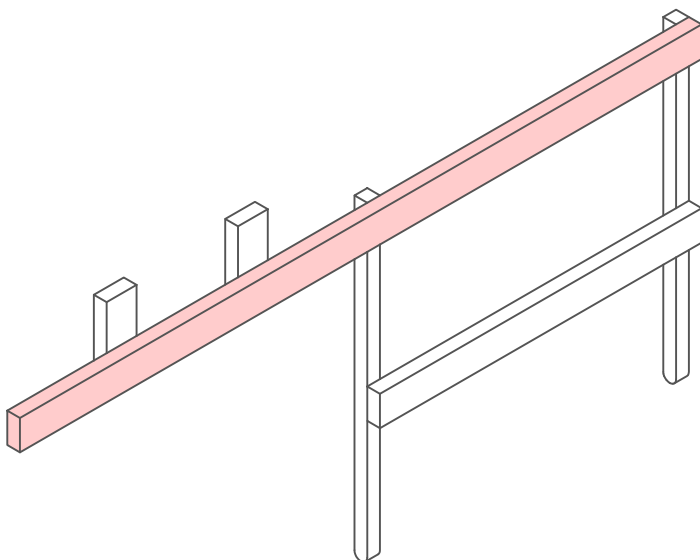
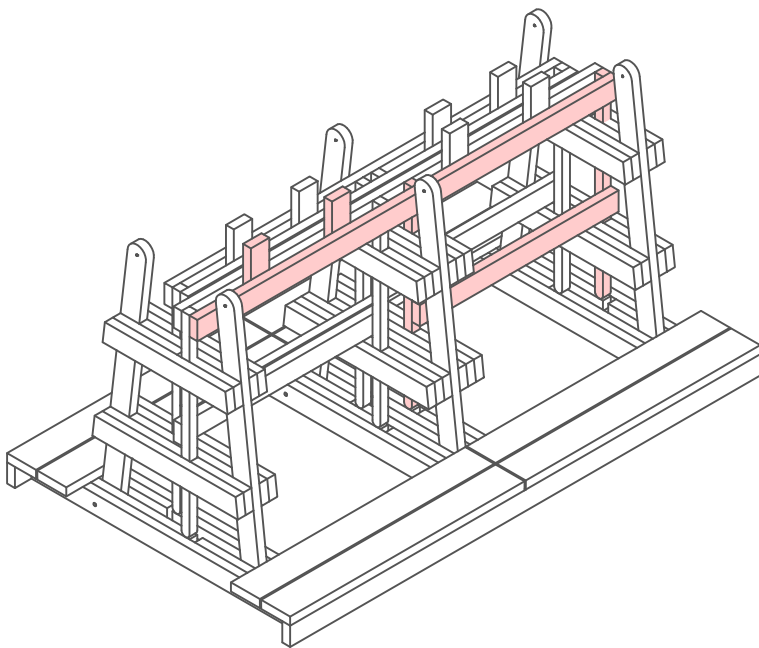
**Count:** 1

**Materials + Directions:**

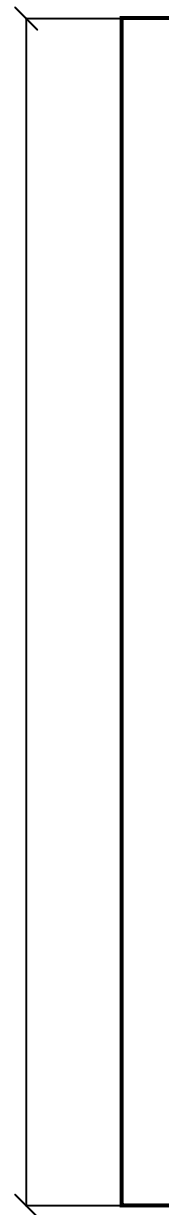
2x4 pressure treated lumber

1/8" Roundover all edges

Paint Red 1.



80



# PIECE: T

NOT TO SCALE

**Use:** Step 7 - Red 1 Piston

**Count:** 1

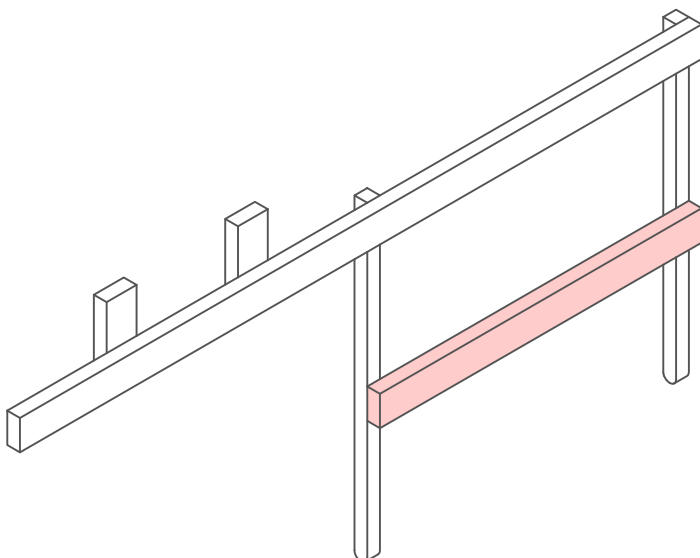
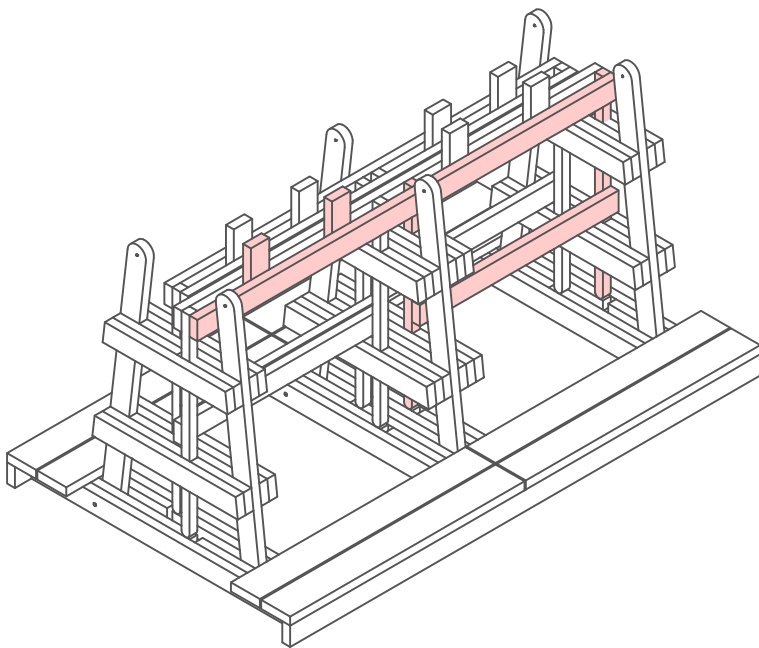
**Materials + Directions:**

2x4 pressure treated

1/8" Roundover all edges

Paint Red 1.

Attach 18-11/16" from Piece P.



37<sup>3</sup>/<sub>4</sub>



# PIECE: R

NOT TO SCALE

**Use:** Step 7 - Red 1 Piston

**Count:** 2

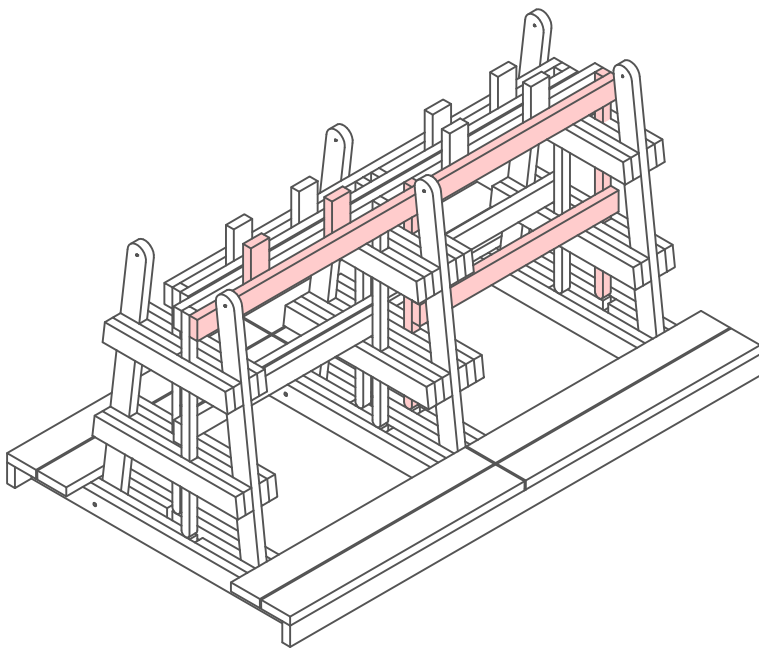
**Materials + Directions:**

2x4 pressure treated

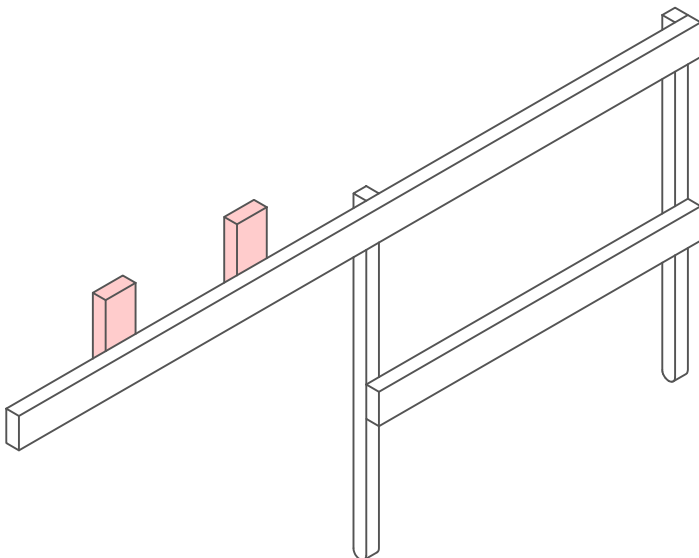
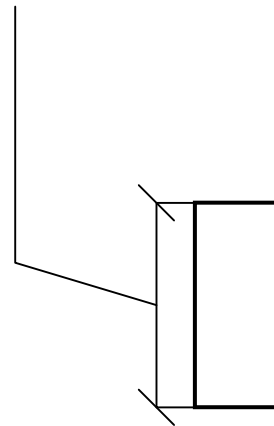
1/8" Roundover all edges

Paint Red 1.

Attach 11-11/16" from end of board and 11-7/8" between each other.



8 11/16



# PIECE: U

NOT TO SCALE

**Use:** Step 8 - Table Top Pivot Arm

**Count:** 12

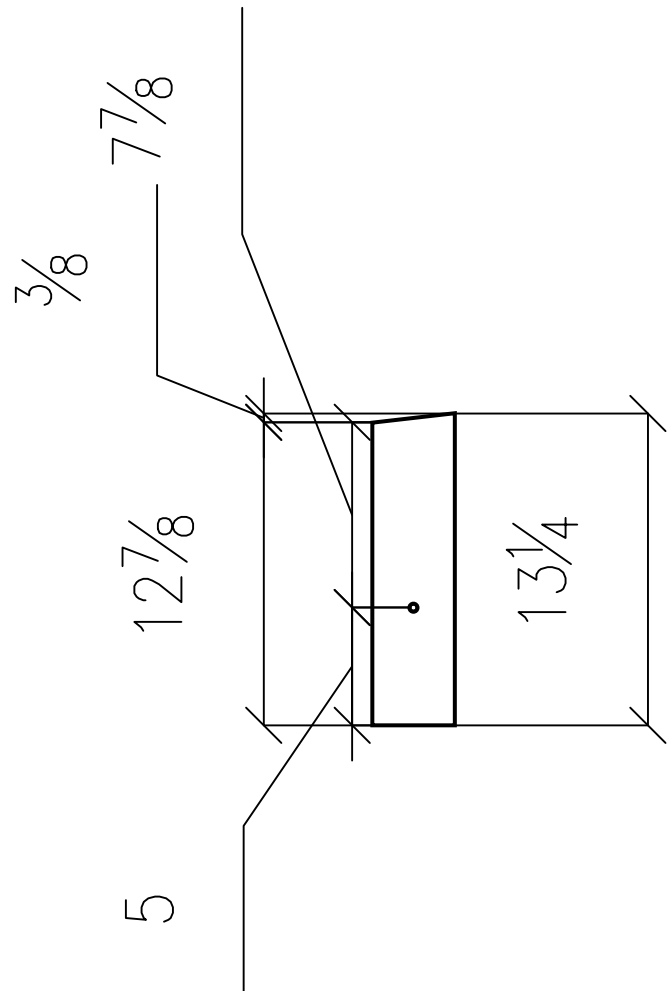
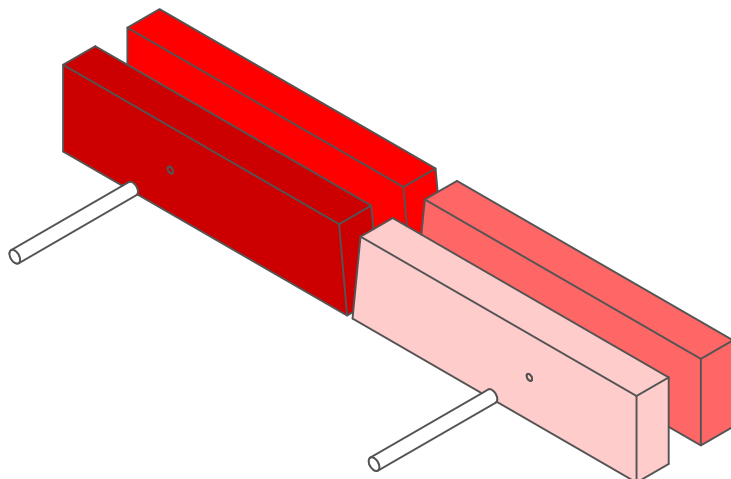
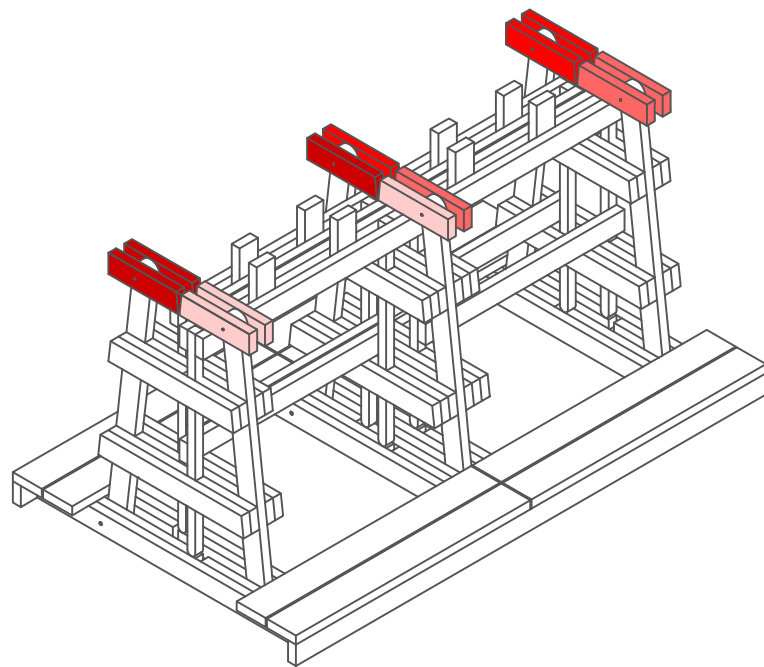
**Materials + Directions:**

2x4 pressure treated

1/8" Roundover all edges

Paint Reds 1-4 such that each color is represented on 3 pieces.

Pieces are to be attached to table leg catty-corner to the corresponding bench color. Clamp and drill 1/2" diameter hole at specified location for pivot point.



# PIECE: V

NOT TO SCALE

**Use:** Step 9 - Table Top

**Count:** 8

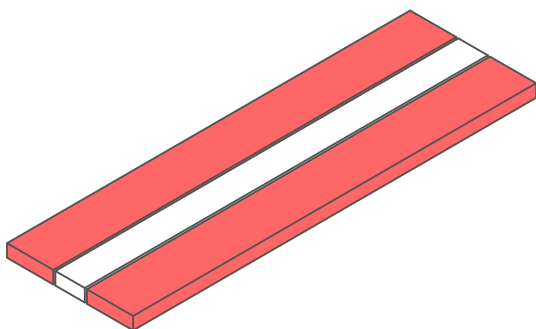
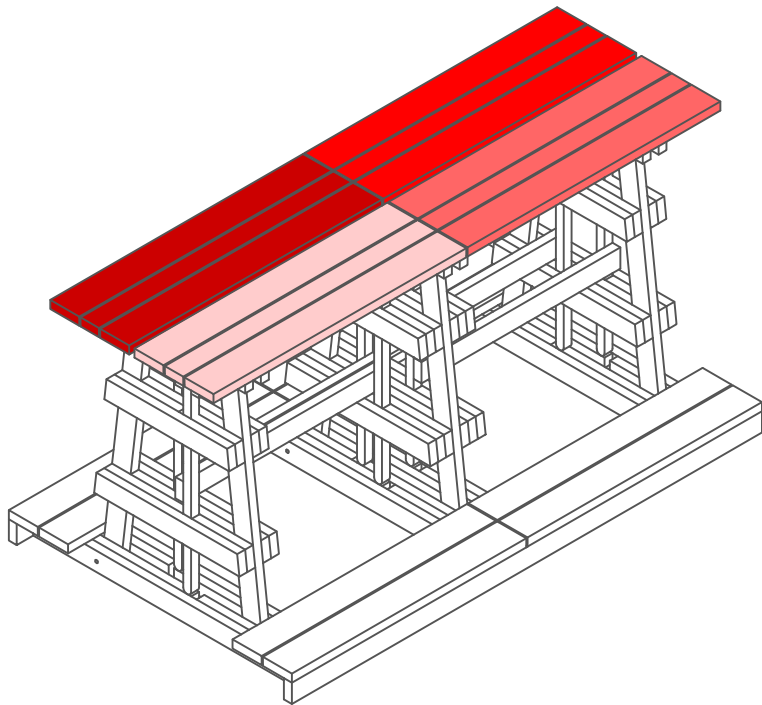
**Materials + Directions:**

2x6 pressure treated

1/8" Roundover all edges

Paint Reds 1-4 such that each color is represented on 2 pieces.

Pieces are to be attached to piece U that is painted the same color.



48



# PIECE: W

NOT TO SCALE

**Use:** Step 9 - Table Top

**Count:** 4

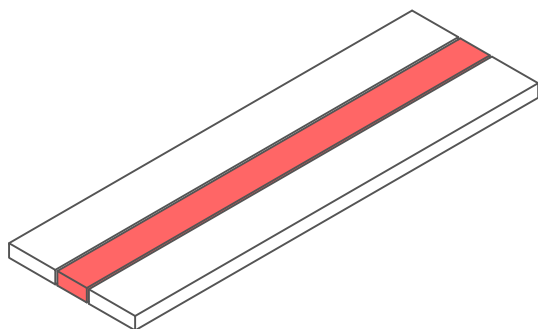
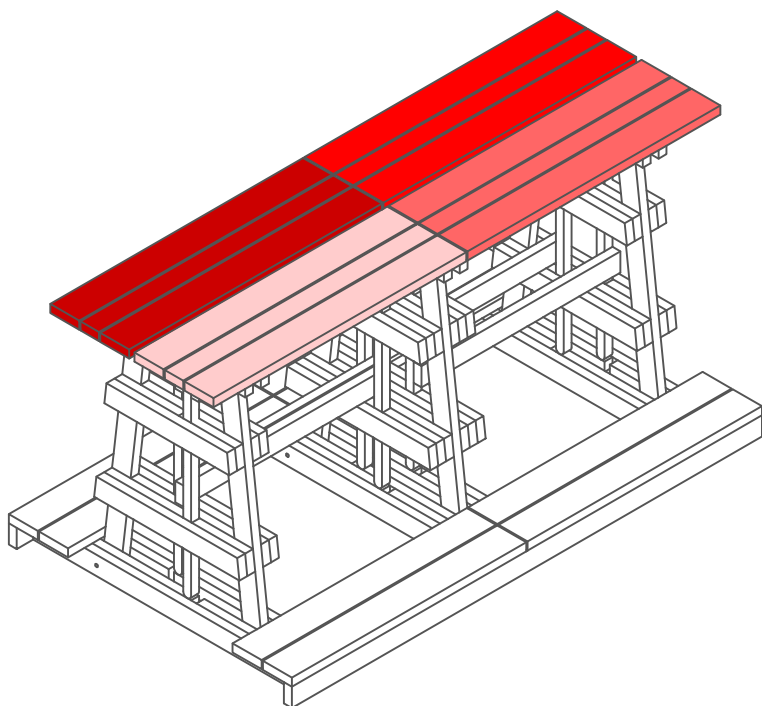
**Materials + Directions:**

2x4 pressure treated

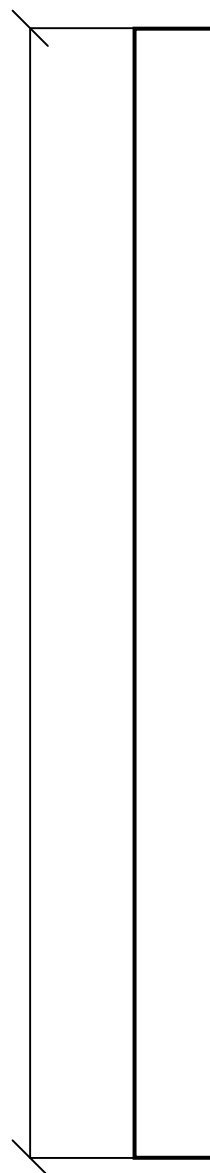
1/8" Roundover all edges

Paint Reds 1-4 such that each color is represented on 1 piece.

Pieces are to be attached to piece U that is painted the same color.



48





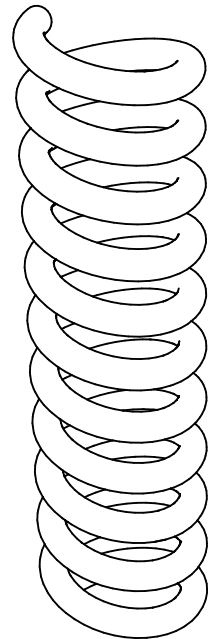
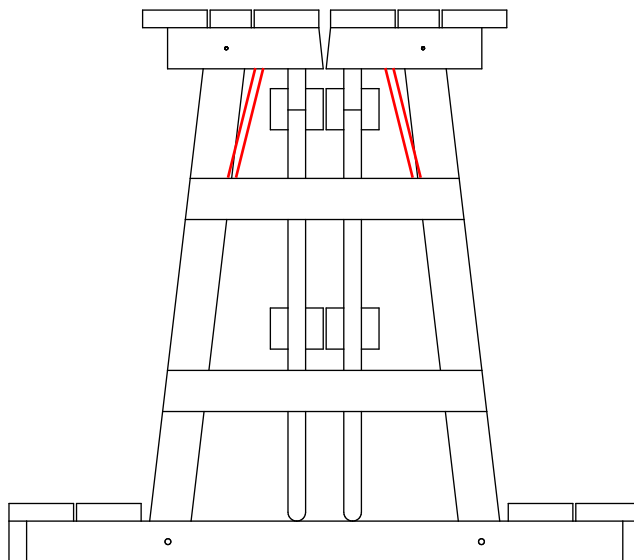
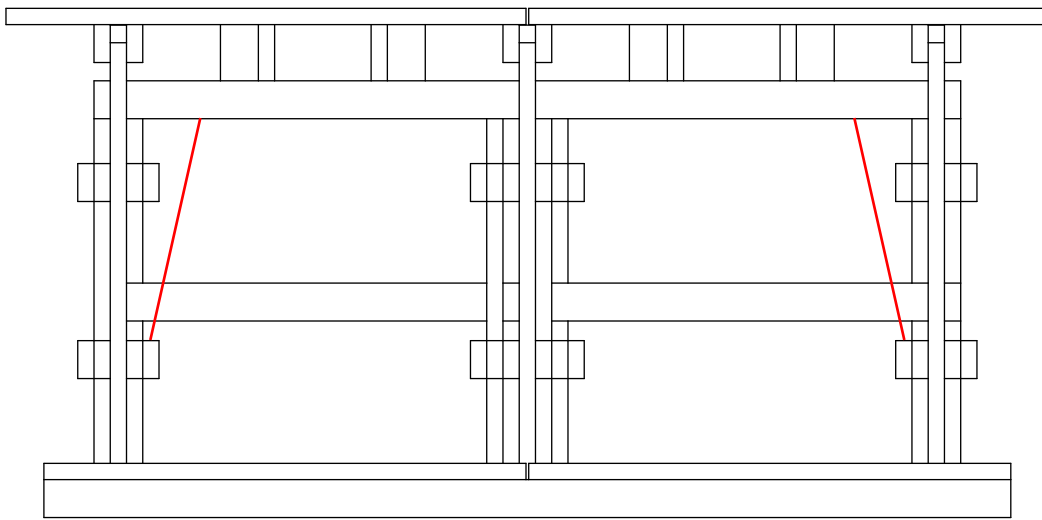
# PIECE: X

**Use:** Step 10 - Alignment Springs

**Count:** 8

**Materials + Directions:**

Steel springs cut to length from standard door springs. Attach at both ends with eye bolts. Locations for attachment marked below and are approximate only. Springs serve to assist in pulling table top down and pulling the pistons square with track. Springs are connected between pieces S/O and E on the pistons/tracks and between pieces U and H on the Table Top.



# CLEMSON

## SCHOOL OF ARCHITECTURE

**STUDIO** Community + Build

**PROFESSOR** Dan Harding

**YEAR** Spring 2018

**STUDENT** Cameron McRae