



**Peter Mitchell**

Hull

Evolution Rating: ★★★★★

Difficulty: **Intermediate**

Duration: **1 Day**

## Garden Arm Chairs

Pete shows his DIY skills by producing some amazing garden arm chairs using his Evolution power tools, which will go to charity. Easy to build, just need a comfy pillow to finish it off.



### Materials & Tools

- **Evolution RAGE3-S Sliding Mitre Saw**
- **Evolution RAGE5 Table Saw**
- 2" Screws
- 2-1/2" Screws
- Wood Glue
- Paintable Silicone or wood filler
- Finishing Supplies

### Cutting List

- 4 - 1x4 @ 22-1/2"** (Legs)
- 2 - 1x4 @ 27"** (Arm Rests)
- 1 - 1x2 @ 27-1/2"** (Back Tie In, for a stronger chair, you could use a 1x4 here)
- 3 - 1x4 @ 22"** (Seat Frame Supports)
- 2 - 1x4 @ 24-3/4"** (Seat Frame Sides)
- 2 - 1x4 @ 20-1/2"** (Front and Back Seat Aprons)
- 2 - 1x2 @ 24-3/4"** (Seat Side Trim Pieces)
- 5 - 1x4 @ 20"** (Seat Boards)
- 2 - 1x2 @ 19-1/2"** (Seat Back Back Supports)
- 1 - 2x2 @ 22"** (Seat Back Bottom Support)
- 5 - 1x4 @ 21-1/2"** (Seat Back Boards)



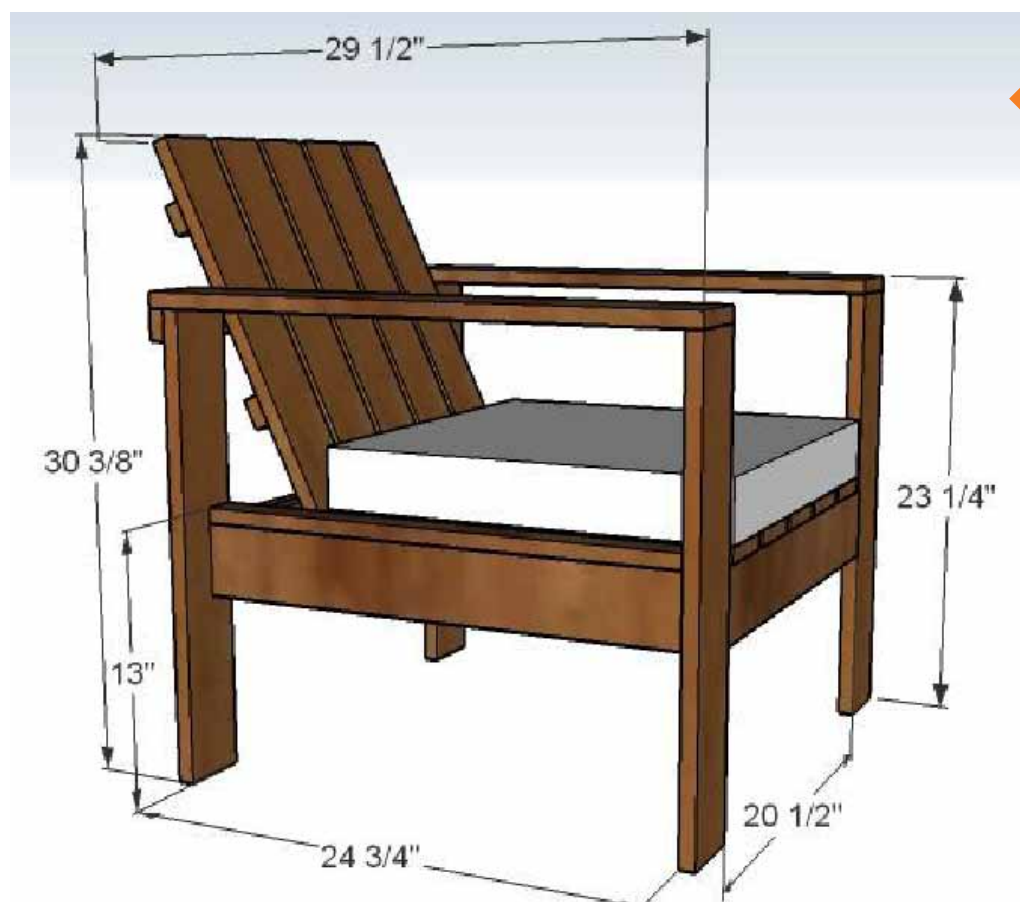
I searched the internet for ideas on which chair to build, which was a bit of a challenge for me to build as I'm not used to building large projects.

I was looking for appropriate materials for the project and luckily a neighbour was renewing their fence and kindly donated the old fence, which I then stripped down to the planks. The wood came out at 6' x 6" x 1" (1829mm x 153mm x 25mm).

**Source:**

<http://ana-white.com/2010/05/plans/simple-outdoor-lounge-chair>



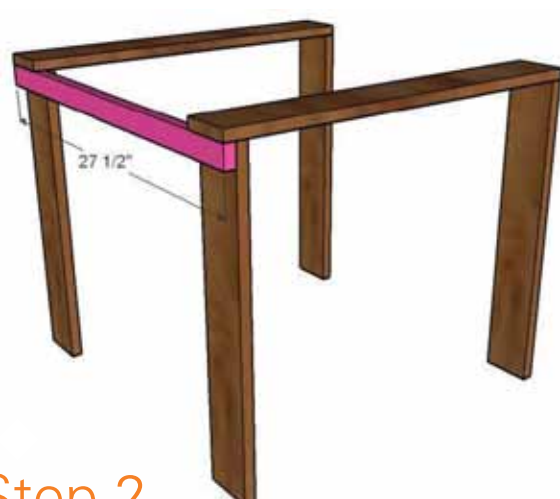
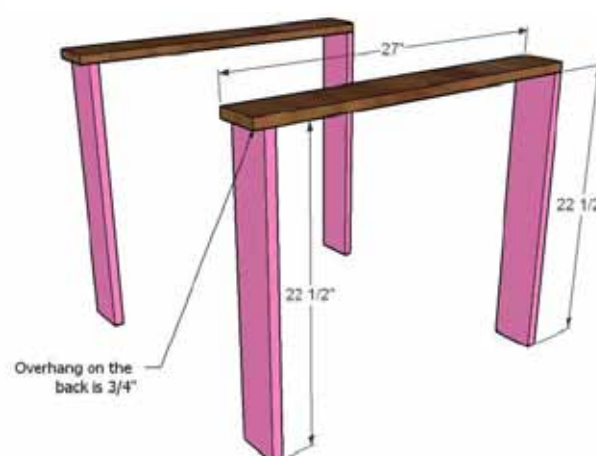


## Overall Dimensions (Shown Left).

### Step 1

#### Legs and Arm Rests

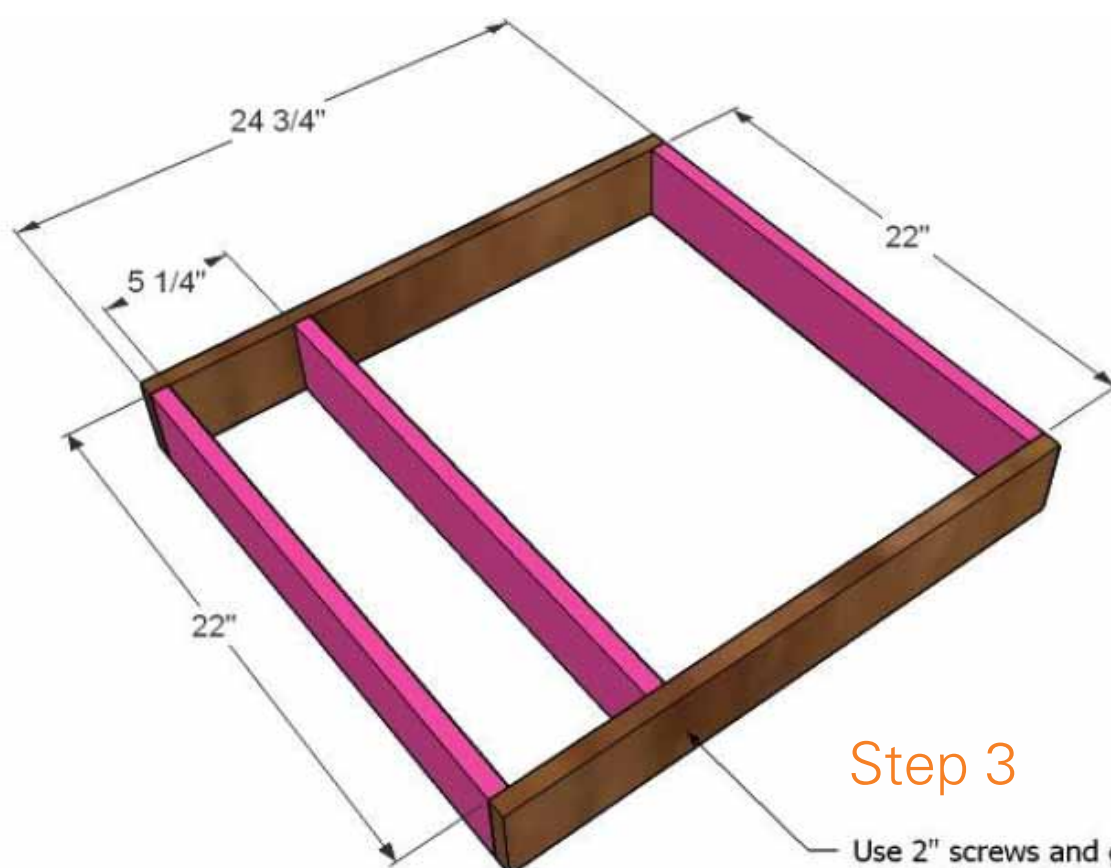
Screw the arm rests to the legs using 2" screws and wood glue. Leave a 3/4" gap on the backs of the arm rests as shown below.



### Step 2

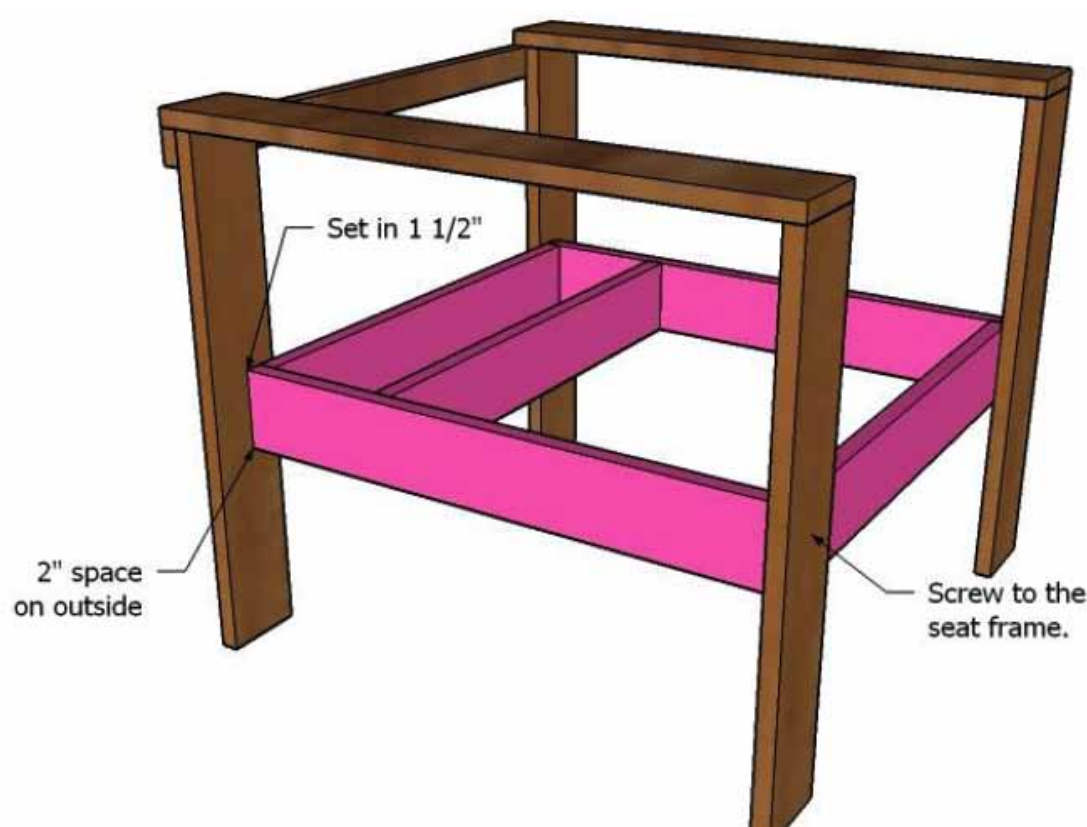
Your back tie in should fit nicely in the space. Make sure you screw the arm rest to the back tie in and the tie in to the back legs (you will need to use 1-1/4" screws). Glue.

**UPDATE.** For lesser of an incline and more comfort, place this back support to the inside of the legs instead of to the outside.



### Step 3

Use 2" screws and glue to join sides with supports

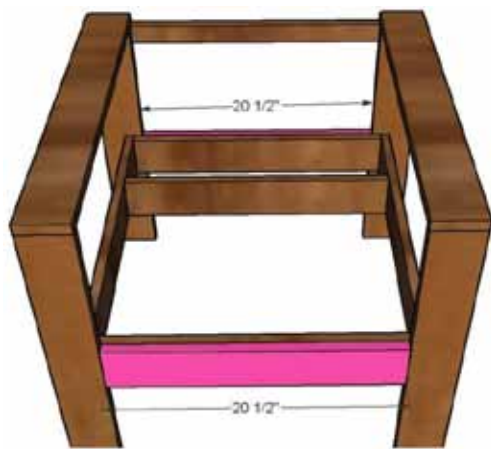


### Step 4

#### Seat Frame and Sides put together.

Mark all of the legs 12-1/4" up from the bottom of the legs. This will be the mark where you seat frame sits on the legs. Then screw your seat frame to the legs, as shown left. Use a level to make sure your seat frame is screwed on level to the legs. Use 3 screws per leg.

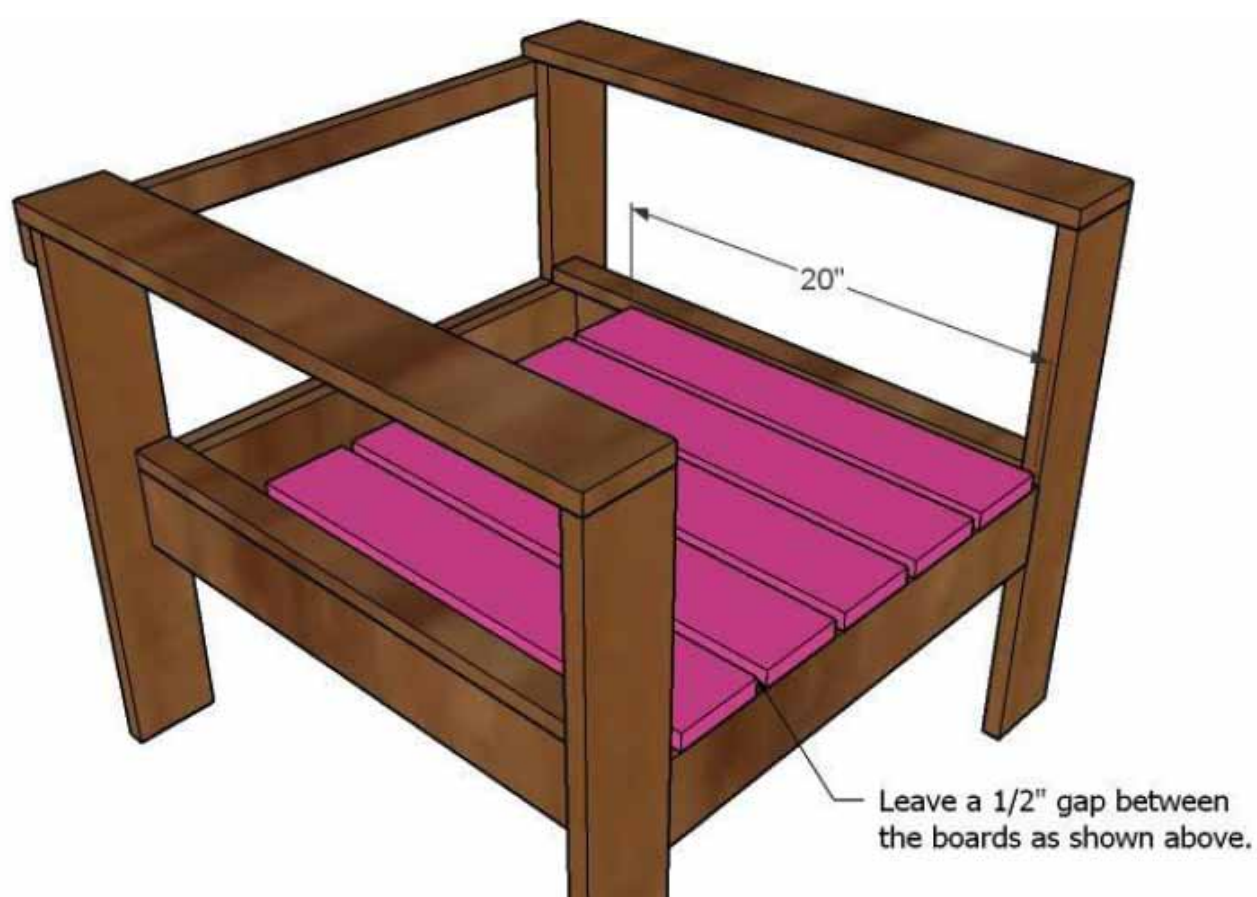
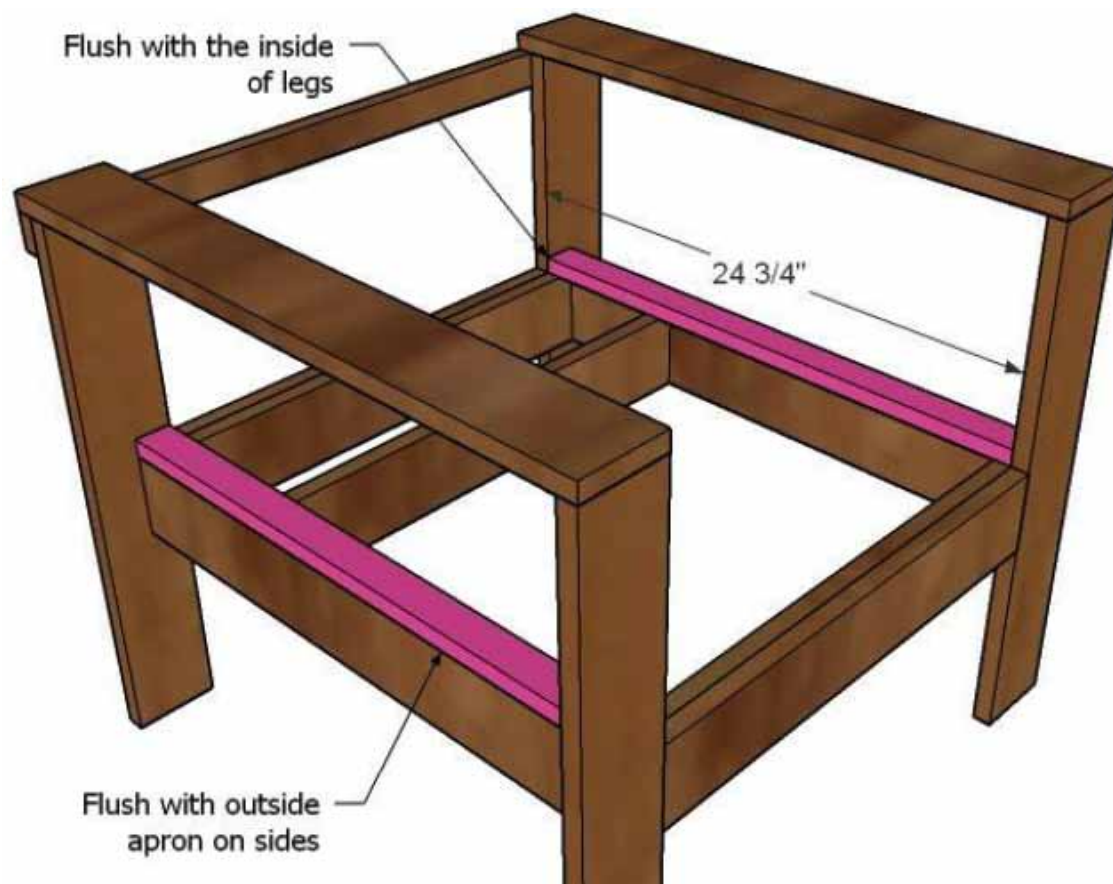




## Step 5

### Front and Back Aprons

Using 1-1/4" screws and glue, from the inside, fasten the front and back apron to the seat frame, as shown above. Fasten the seat top, sides, to the tops as shown above. Make sure you fasten to the seat supports and the sides as shown right. This will stiffen up the chair considerably.



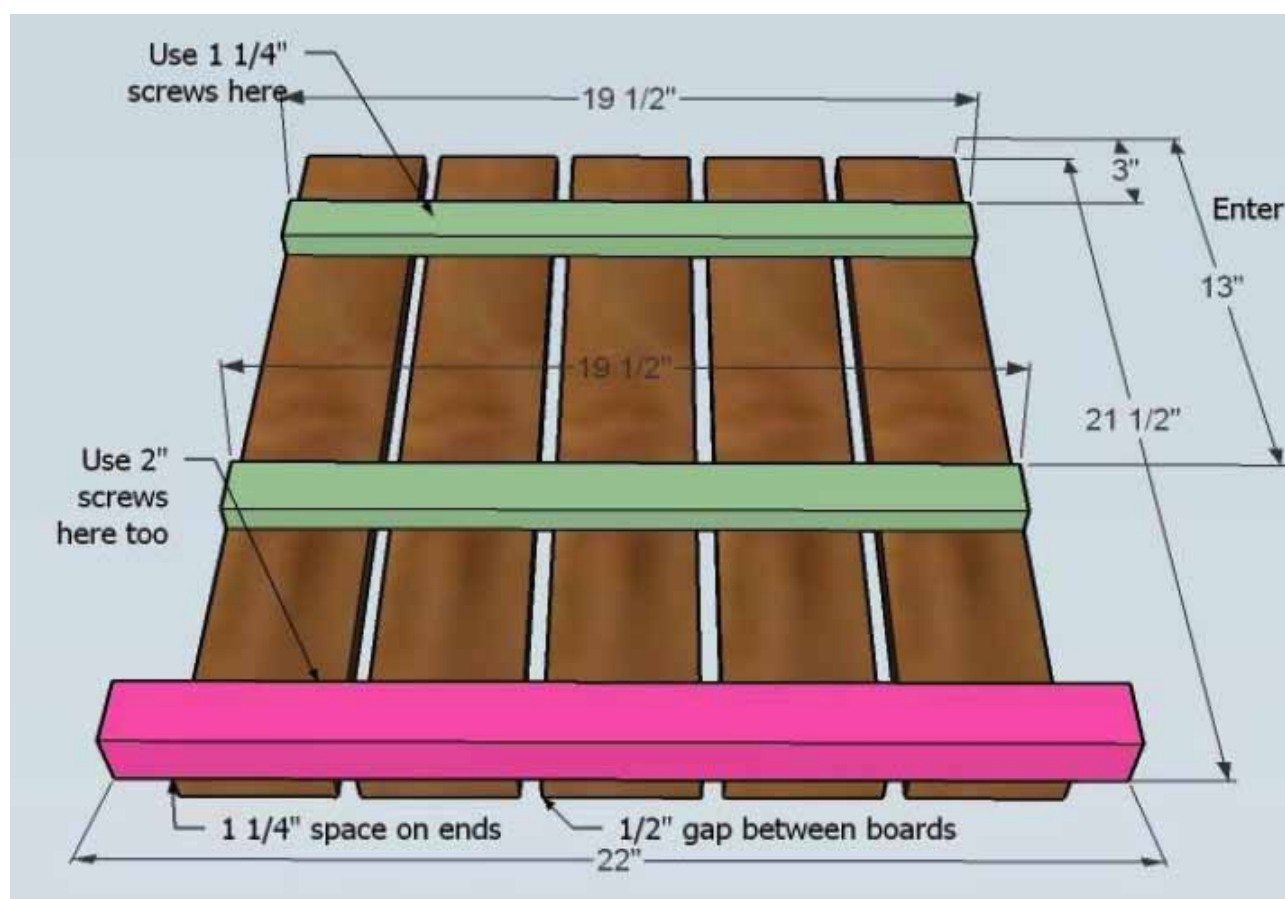
## Step 6

### Seat Boards

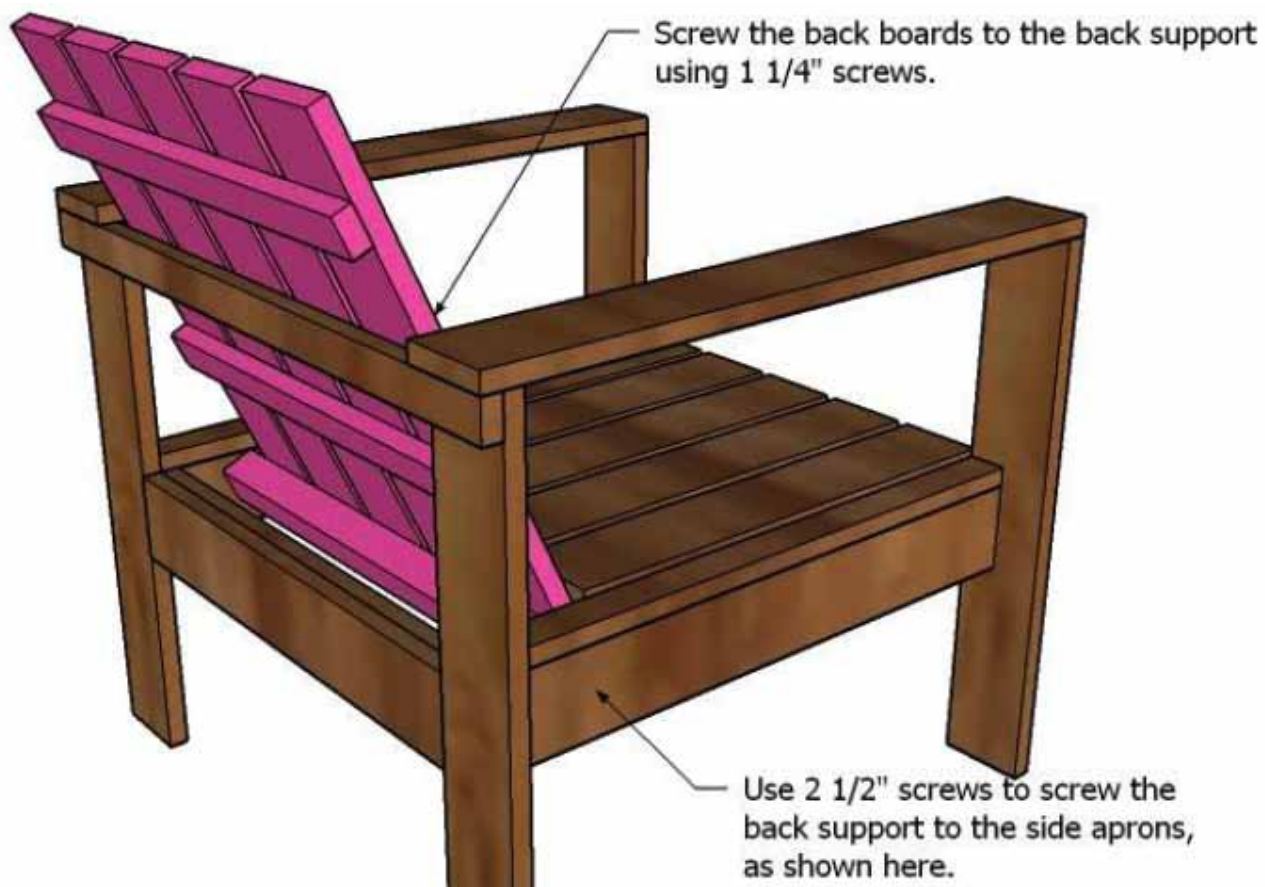
Fasten the seat boards to the supports, leaving a 1/2" gap between the boards, as shown left. Screw down. Front is flush with the front apron.

## Step 7

Build the back, as shown left.







## Step 8

### Putting the Back in Place

Place the back into the back of the seat, as shown left. Start by screwing the 2x2 to the aprons, as shown left.

Then fasten the seat back boards to the 1x2 seat back support.



## Step 9

Fill holes with water resistant filler (I like to use paintable silicone) and finish as desired. The chair will fit a standard 20x20 cushion, or similar sized cushion.



Featured Evolution Power Tools ↓



## Featured Evolution Power Tools



### RAGE3-S

210mm Multipurpose  
Sliding Mitre Saw



### RAGE5

255mm Multipurpose  
Table Saw

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