

Rolling Grill Cart



MATERIALS:

4 – 2x4x8'
 6 – 1x4x8'
 1 – 1x6x6'
 4 – 2" Angle Irons, 36" long
 4 – 3" Locking Swivel Casters
 1 – 1 1/4" Dowel, 24" long
 1 1/4" Deck Screws
 2 1/2" Deck Screws
 1 1/4" Exterior Pocket Hole Screws
 2 1/2" Exterior Pocket Hole Screws
 Wood Glue

CUT LIST:

6 – 2x4 @ 40" (long frame boards)
 8 – 2x4 @ 18 1/2" (short frame boards)
 10 – 1x4 @ 37" (middle and bottom shelf slats)
 3 – 1x6 @ 42 1/4" (top shelf slats)
 2 – 1x4 @ 42 1/4" (top shelf slats)
 4 – 1x4 @ 8" (handle supports)
 1 – 1 1/4" dowel @ 15-1/8" (handle)

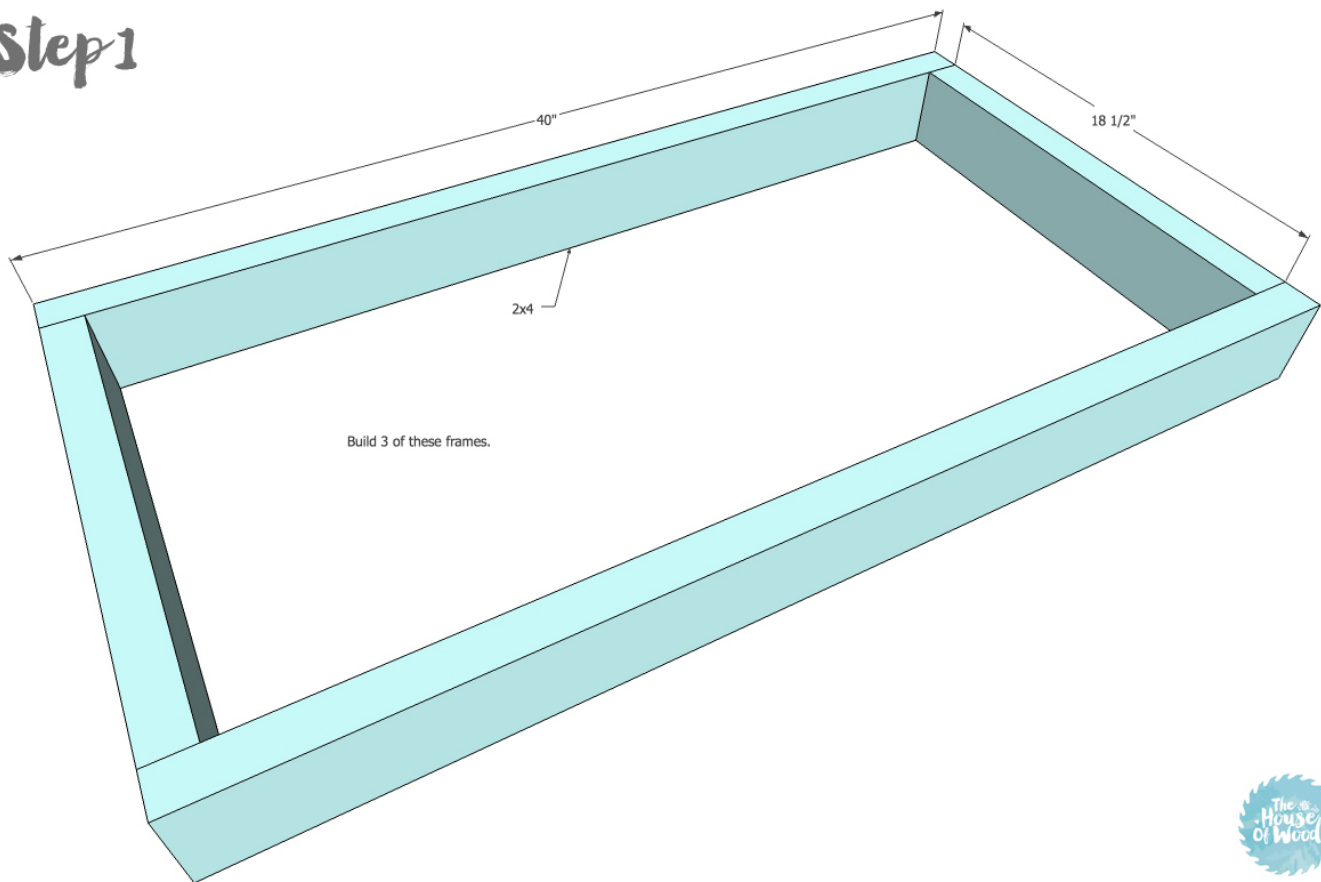
TOOLS:

Tape Measure
Pencil
Circular Saw
Safety Glasses

Speed Square
Drill with 1 ¼" Spade Bit
Kreg Jig
Hearing Protection

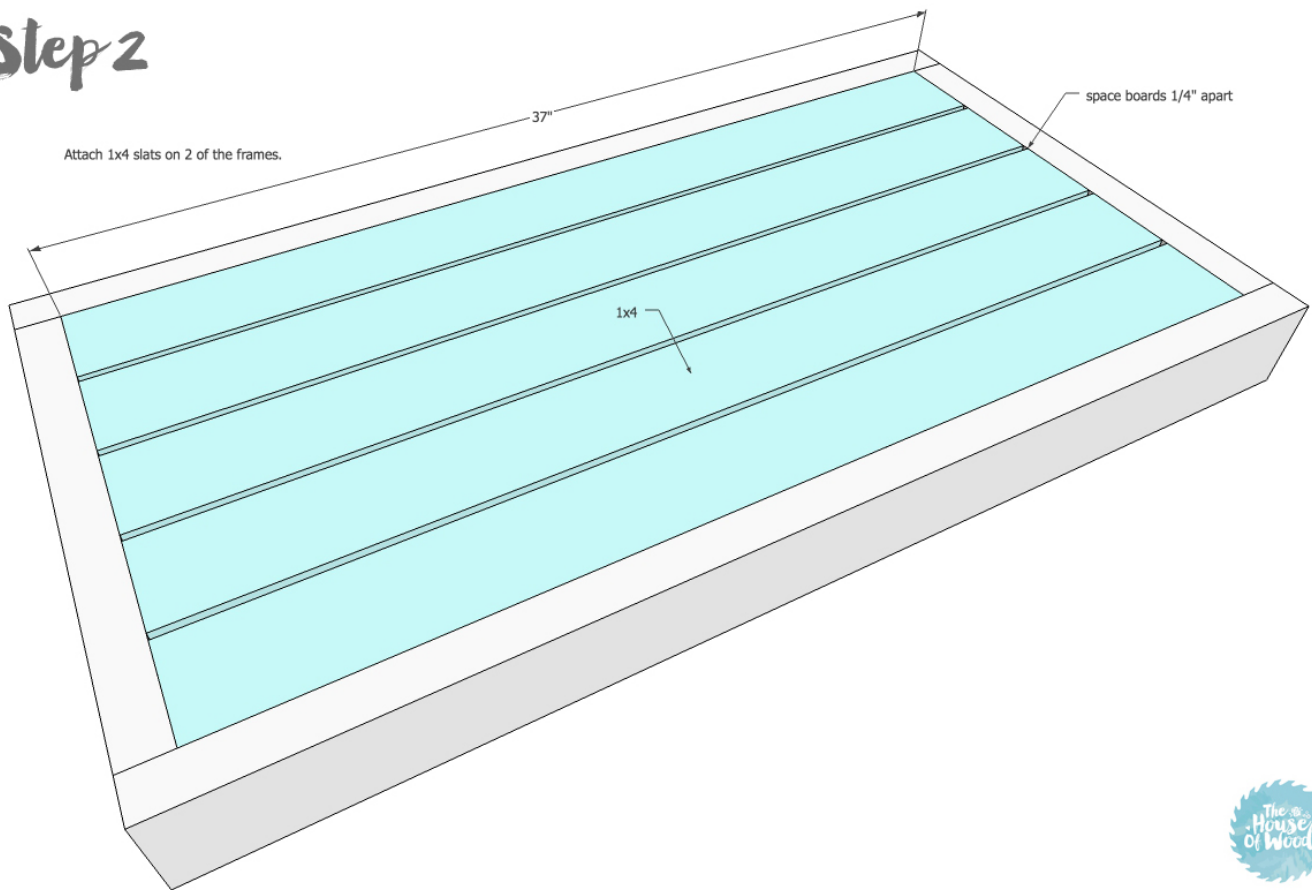
STEP 1

Build three frames. Pre-drill pilot holes and drive 2 ½" deck screws to construct frame as shown. Optional: to attach boards using pocket hole joinery, drill 1 ½" pocket holes into the short frame boards and attach with 2 ½" pocket hole screws.

Step 1

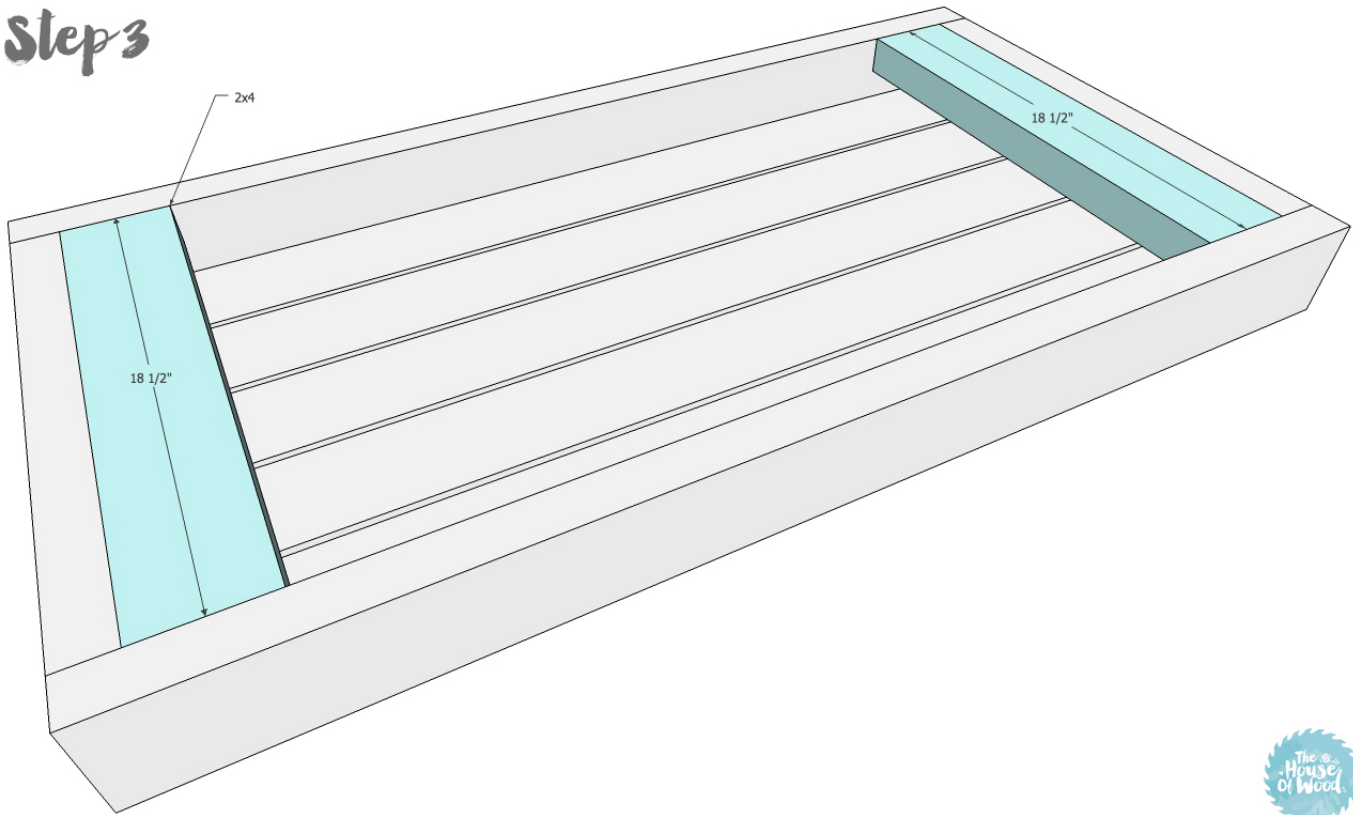
STEP 2

Drill $\frac{3}{4}$ " pocket holes into 1x4s and attach to frame with 1 $\frac{1}{4}$ " pocket hole screws. Space boards $\frac{1}{4}$ " apart. Do this for two of the frames.

Step 2

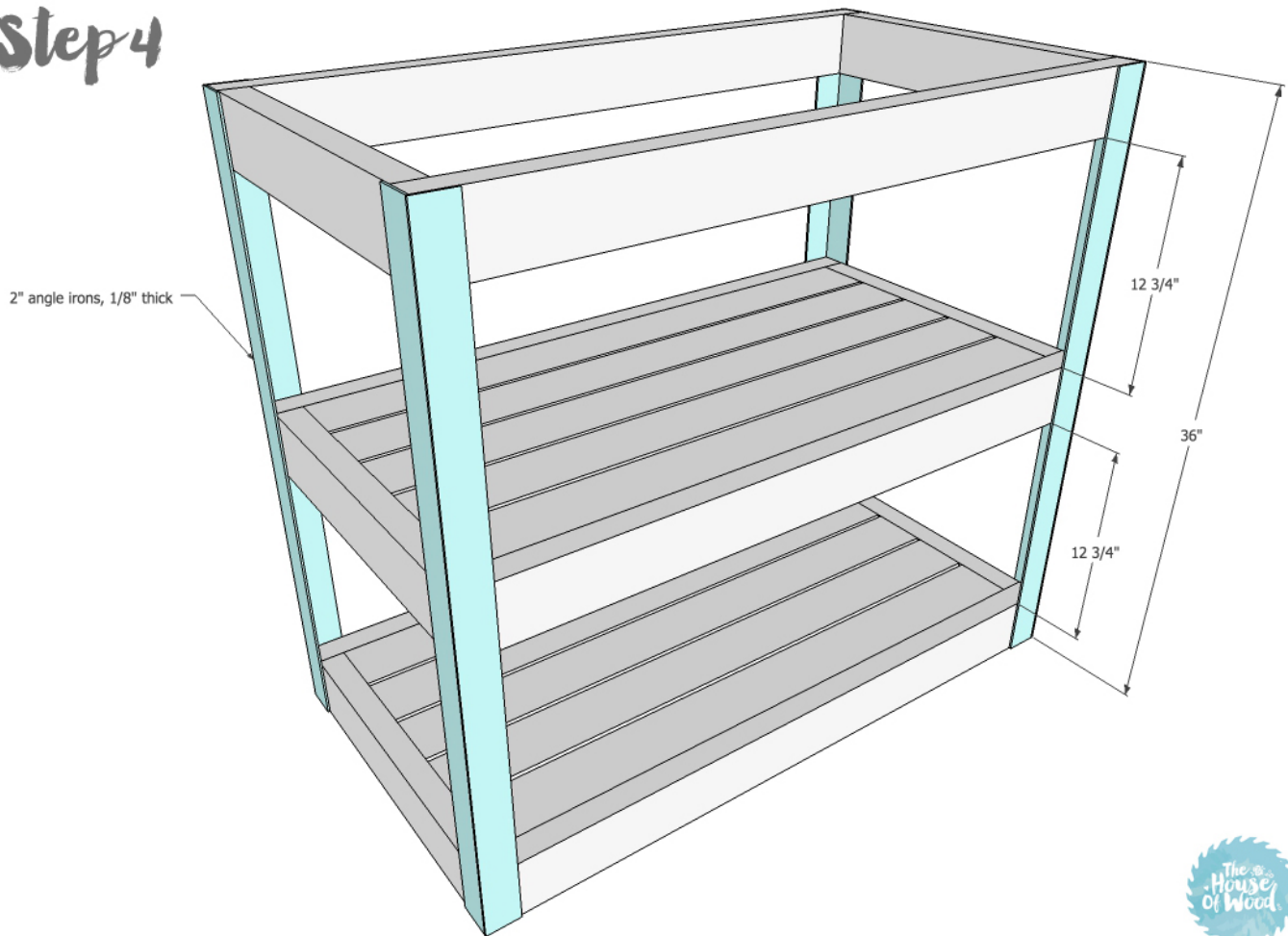
STEP 3

Attach the supports for the casters on one of the frames. This will be your bottom shelf. You can either pre-drill pilot holes and attach with 2 ½" deck screws, or drill 1 ½" pocket holes and attach with 2 ½" pocket hole screws.

Step 3

STEP 4

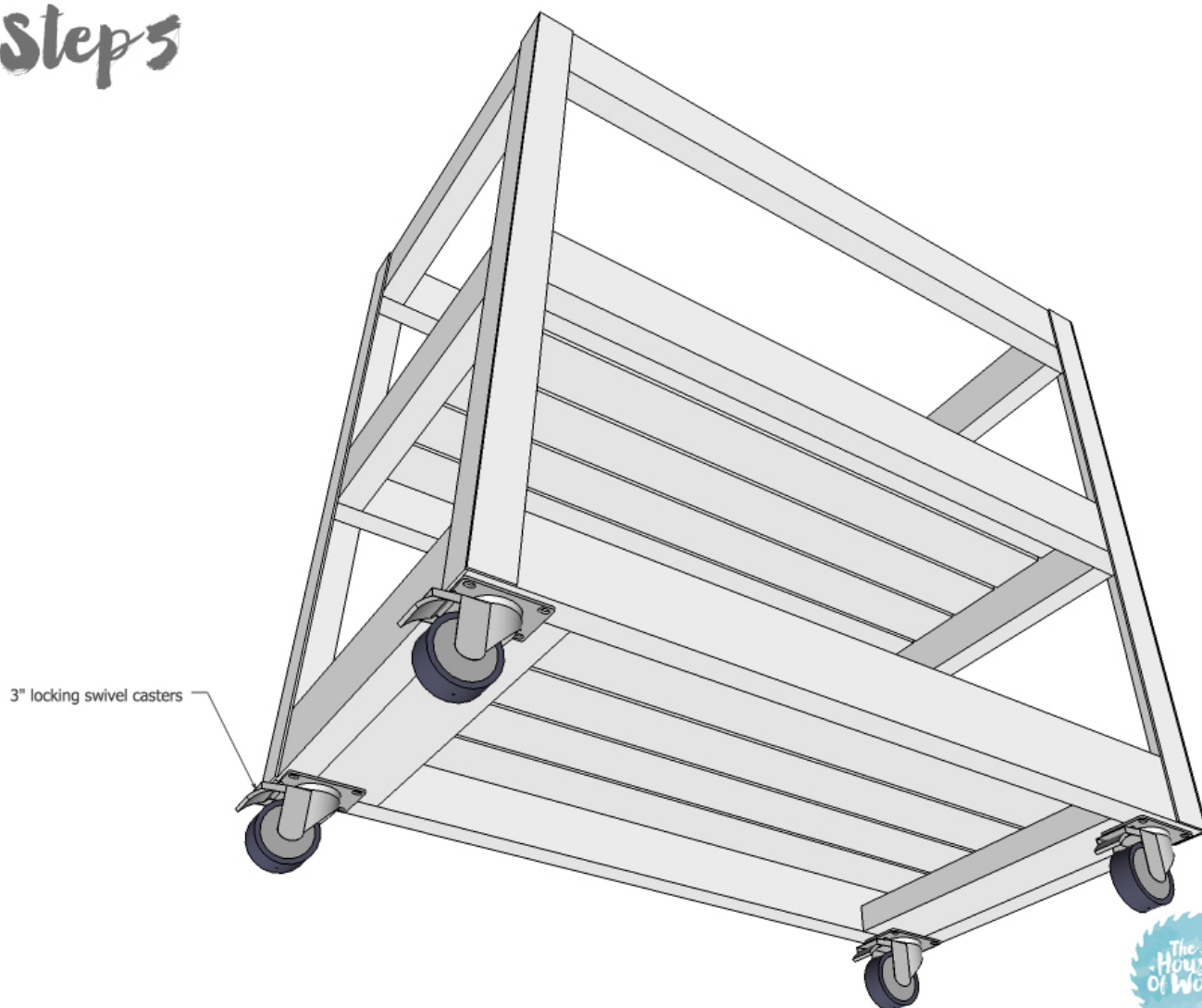
Drill through the angle irons with a 3/16" drill bit. Check to make sure that the screws fit through the holes. You can use a larger drill bit to create a hole over the 3/16" hole to countersink the screws. Be sure to use cutting oil as a lubricant when drilling through the metal. Clean the oil off the angle irons and paint with spray paint. Once dry, attach the angle irons to the wood frames with 2 1/2" deck screws.

Step 4

STEP 5

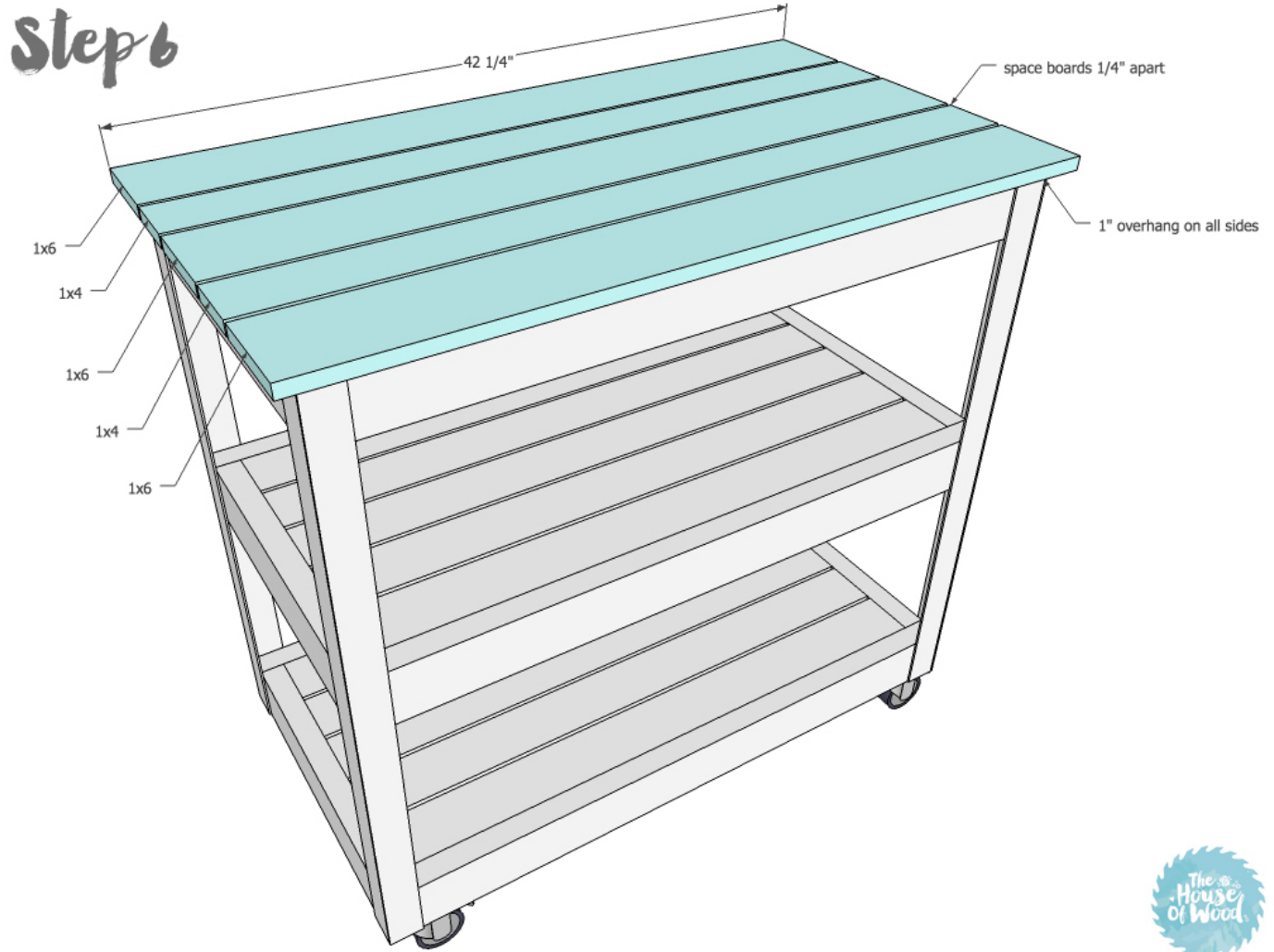
Attach the locking swivel casters to the bottom of the cart.

Step 5



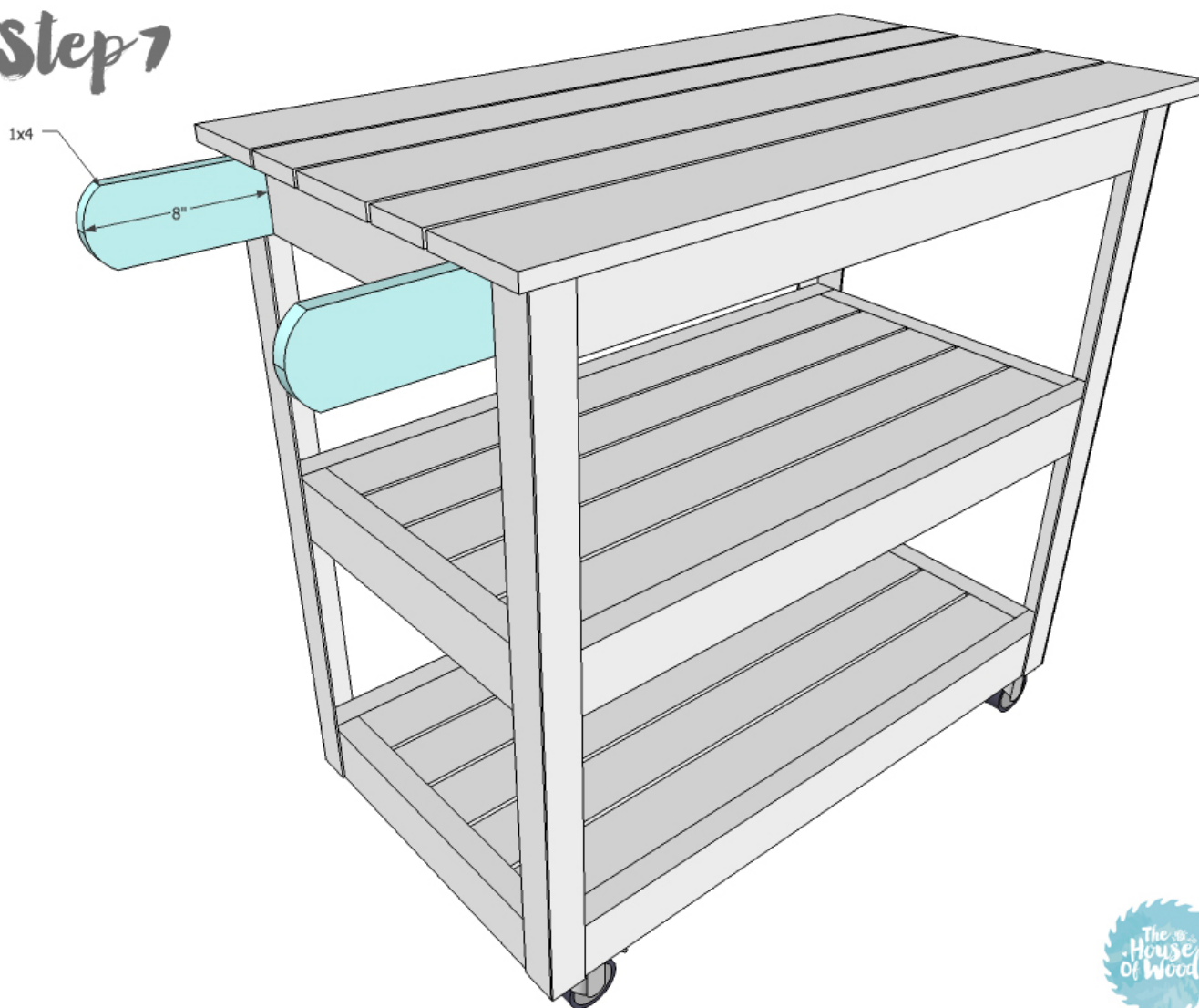
STEP 6

Attach top boards by pre-drilling holes and attaching with 1 ¼" deck screws. Take note of the 1x6 and 1x4 boards alternating pattern. Allow for a 1" overhang on all sides, spacing boards ¼" apart.



STEP 7

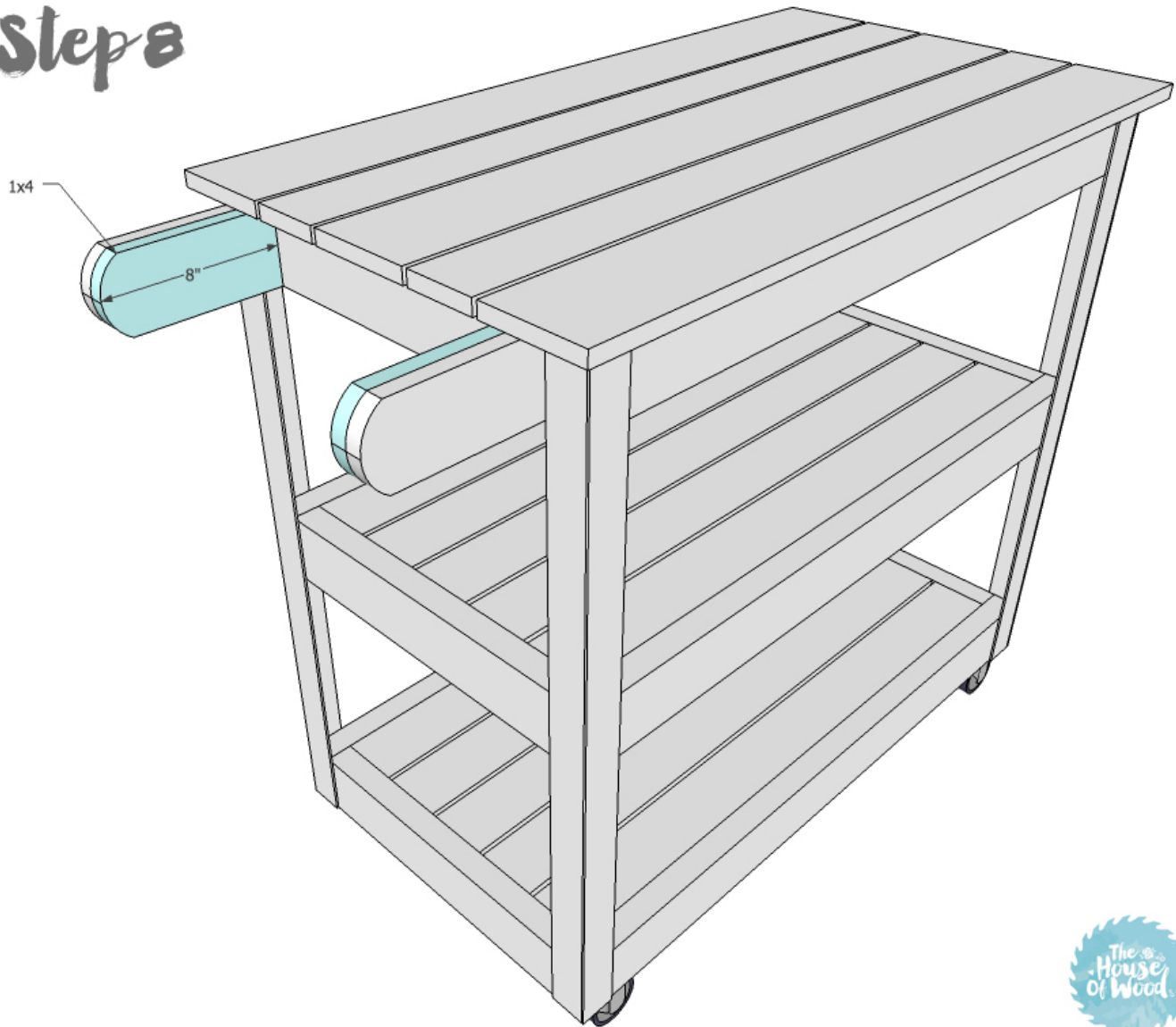
Attach handle supports by drilling $\frac{3}{4}$ " pocket holes and fastening to cart with 1 $\frac{1}{4}$ " pocket hole screws.

Step 7

STEP 8

Clamp the 1x4 handle supports together and drill a 1 ¼" hole for the dowel. Slide both handle supports onto the dowel, then secure the handle supports to the cart. Use ¾" pocket holes and 1 ¼" pocket hole screws.

Step 8



STEP 9

To further secure the dowel, pre-drill pilot holes and drive 2 ½" deck screws from the outsides of the handle supports and into the middle of the dowel.

Step 9