

Potting Bench

Automated woodworking cut list, grouped board cutting diagrams, and step-by-step 3D assembly guide.

Specifications

Overall Dimensions	48" W × 25.5" D × 54" H
Total Parts Count	26 pieces (5 unique sizes)
Dimensional Stock Lumber	14 boards (10 unique cutting patterns)
Wood Screws	79 screws

3D Project Overview

benchbuild.app

Cut List Summary

Identical pieces are grouped together. Check off each row as you cut your lumber and sheet goods.

Qty	Material	Cut Dimensions	Miter / Angle Cuts	Piece Names
4×	2x4	34.5"	Square (90°)	4× Legs
6×	2x4	21"	Square (90°)	2× Aprons · 2× Stretchers · 2× Cleats
13×	2x4	48"	Square (90°)	2× Aprons · 2× Stretchers · 6× Slats · 3× Shelf Slats
2×	2x4	44.5"	Square (90°)	2× Shelf Uprights
1×	2x6	48"	Square (90°)	Shelf

Board Cutting Diagrams

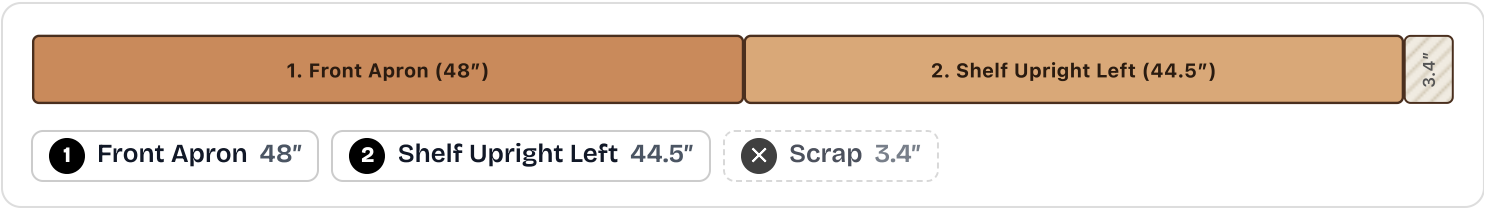
Boards with identical cuts are grouped with a multiplier badge (e.g., 5× **Boards**) so you only read each cutting layout once. Includes 1/8" blade kerf.

1× Board

2x4 (8' / 96" stock)

2 cuts/board • 92.6" used • 3.4" scrap

Produces: Front Apron + Shelf Upright Left

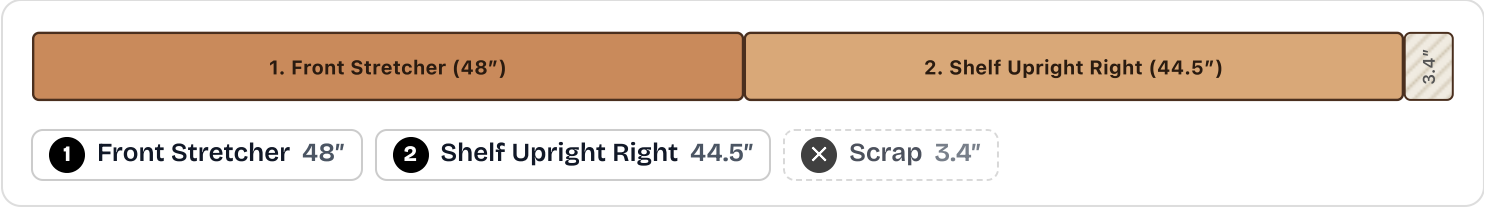


1× Board

2x4 (8' / 96" stock)

2 cuts/board • 92.6" used • 3.4" scrap

Produces: Front Stretcher + Shelf Upright Right

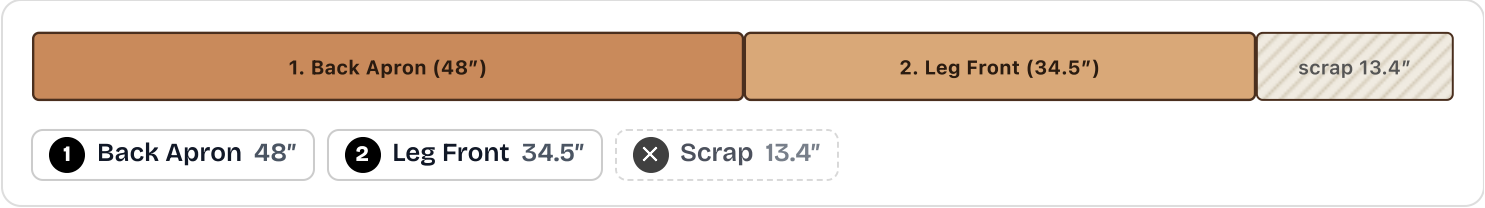


1× Board

2x4 (8' / 96" stock)

2 cuts/board • 82.6" used • 13.4" scrap

Produces: Back Apron + Leg Front



1× Board

2x4 (8' / 96" stock)

2 cuts/board • 82.6" used • 13.4" scrap

Produces: Back Stretcher + Leg Back



2x Boards 2x4 (8' / 96" stock)

2 cuts/board • 82.6" used • 13.4" scrap

Cut this pattern **2 times** (2 boards total). Makes: Top Slat 1 + Leg Front, Top Slat 2 + Leg Back**2x Boards 2x4 (8' / 96" stock)**

3 cuts/board • 90.3" used • 5.8" scrap

Cut this pattern **2 times** (2 boards total). Makes: Top Slat 3 + Side Apron + Side Stretcher, Top Slat 4 + Side Apron + Side Stretcher**1x Board 2x4 (8' / 96" stock)**

3 cuts/board • 90.3" used • 5.8" scrap

Produces: Top Slat 5 + Upper Center Cleat + Lower Center Cleat

**1x Board 2x4 (8' / 96" stock)**

1 cut/board • 48" used • 48" scrap

Produces: Top Slat 6

**3x Boards 2x4 (8' / 96" stock)**

1 cut/board • 48" used • 48" scrap

Cut this pattern **3 times** (3 boards total). Makes: Shelf Slat 1, Shelf Slat 2, Shelf Slat 3

1x Board 2x6 (8' / 96" stock)

1 cut/board • 48" used • 48" scrap

Produces: Upper Shelf

1. Upper Shelf (48")

scrap 48"

1 Upper Shelf 48"

✕ Scrap 48"

Step-by-Step Assembly Guide

Pieces highlighted in warm amber are added in the current step. Muted beige pieces are already assembled from previous steps.

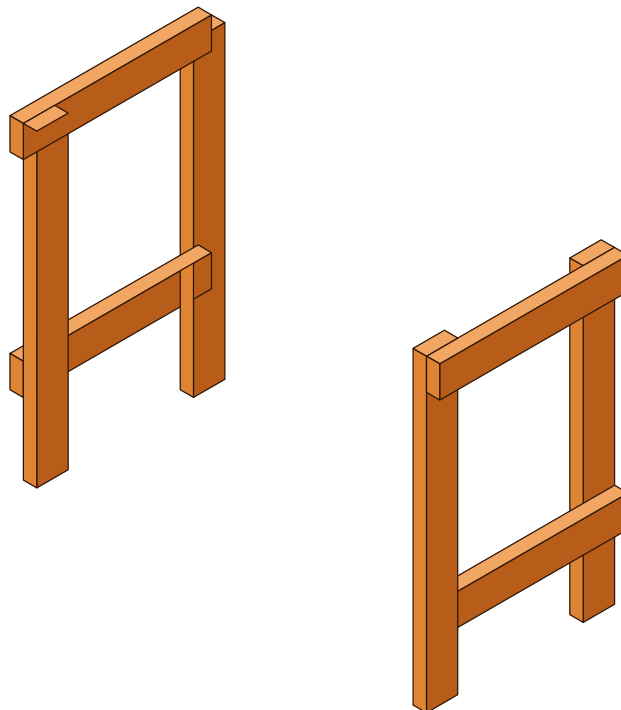
1

End Frames (x2)

Make 2 identical units (4 pcs each): 2x Leg (2x4, 34.5") 1x Side Apron (2x4, 21")

1x Side Stretcher (2x4, 21")

- Drive 4x 2.5" screws (per unit) through **Side Apron** into **Leg**
- Drive 4x 2.5" screws (per unit) through **Side Stretcher** into **Leg**



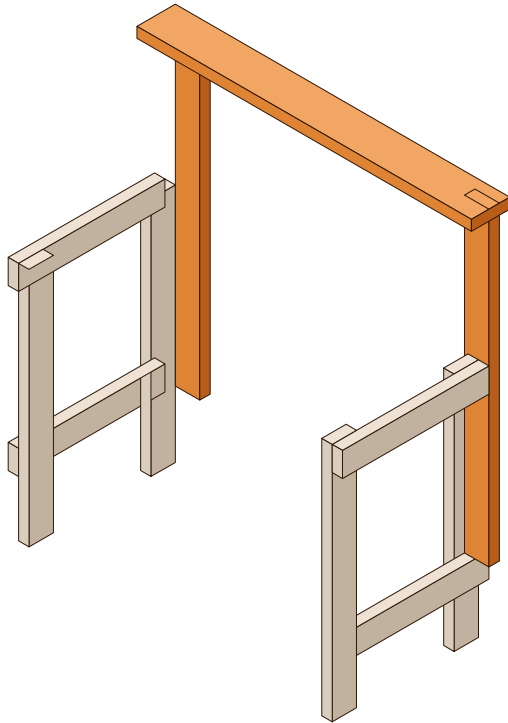
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Back Shelf

2× Shelf Upright (2x4, 44.5")

1× Upper Shelf (2x6, 48")

- Drive 4× 2.5" screws through **Shelf** into **Shelf Upright**



3

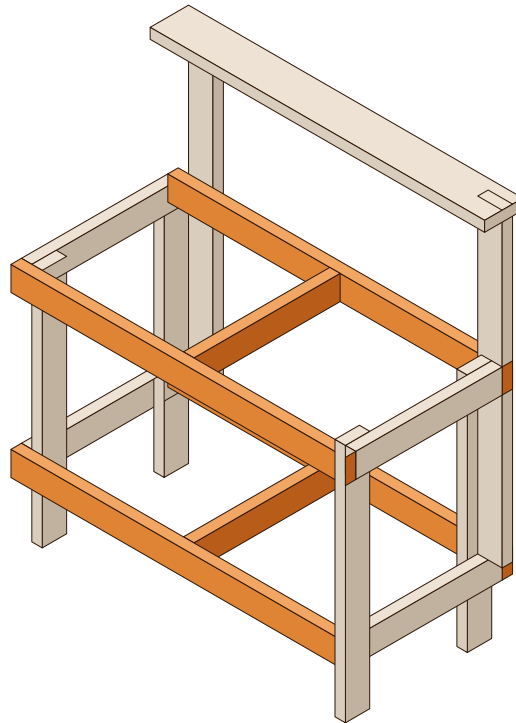
Frame Assembly

2x Apron (2x4, 48")

2x Stretcher (2x4, 48")

2x Cleat (2x4, 21")

- Drive 8× 2.5" screws through **Apron** into **Leg**
- Drive 4× 2.5" screws through **Apron** into **Cleat**
- Drive 8× 2.5" screws through **Stretcher** into **Leg**
- Drive 4× 2.5" screws through **Stretcher** into **Cleat**
- Drive 4× 2.5" screws through **Shelf Upright** into **Apron**
- Drive 4× 2.5" screws through **Shelf Upright** into **Stretcher**



4

Top & Finishing Assembly

6× Top Slat (2x4, 48")

3× Shelf Slat (2x4, 48")

- Drive 12× 2.5" screws through **Top Slat** into **Side Apron**
- Drive 6× 2.5" screws through **Top Slat** into **Cleat**
- Drive 6× 2.5" screws through **Shelf Slat** into **Side Stretcher**
- Drive 3× 2.5" screws through **Shelf Slat** into **Cleat**

