

Workbench

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

Specifications

Overall Dimensions	48" W × 24" D × 36" H
Total Parts Count	13 pieces (4 unique sizes)
Dimensional Stock Lumber	5 boards (3 unique cutting patterns)
Plywood Sheet Panels	1 panels
Wood Screws	38 screws

3D Project Overview



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×	4x4	35.3"	Square (90°)	Leg Front, Leg Back
4×	2x4	19"	Square (90°)	Side Apron, Side Stretcher
4×	2x4	46"	Square (90°)	Front Apron, Front Stretcher, Back Apron, Back Stretcher
1×	plywood	24" × 48" (0.75" thick)	Square (90°)	Plywood Top

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.

2× Boards

4x4 (8' / 96" stock)

2 cuts/board • 70.7" used • 25.3" scrap

Cut this pattern 2 times (2 boards total). Makes: Leg Front + Leg Back

1. Leg (35.3")

2. Leg (35.3")

scrap 25.3"

1 Leg 35.3"

2 Leg 35.3"

× Scrap 25.3"

2× Boards

2x4 (8' / 96" stock)

2 cuts/board • 92.1" used • 3.9" scrap

Cut this pattern 2 times (2 boards total). Makes: Front Apron + Front Stretcher, Back Apron + Back Stretcher

1. Apron (46")

2. Stretcher (46")

3.9"

1 Apron 46"

2 Stretcher 46"

× Scrap 3.9"

1× Board

2x4 (8' / 96" stock)

4 cuts/board • 76.4" used • 19.6" scrap

Produces: Side Apron + Side Stretcher + Side Apron + Side Stretcher

1. Side Apron (19")

2. Side Stretcher (19")

3. Side Apron (19")

4. Side Stretcher (19")

scrap 19.6"

1 Side Apron 19"

2 Side Stretcher 19"

3 Side Apron 19"

4 Side Stretcher 19"

× Scrap 19.6"

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

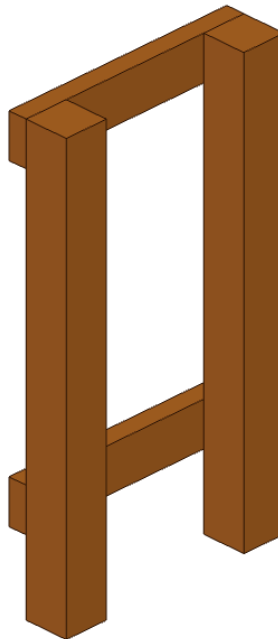
Side Frame

2× Leg (4x4, 35.3")

1× Side Apron (2x4, 19")

1× Side Stretcher (2x4, 19")

- Drive 4× 2.5" screws through **Side Apron** into **Leg**
- Drive 4× 2.5" screws through **Side Stretcher** into **Leg**



2

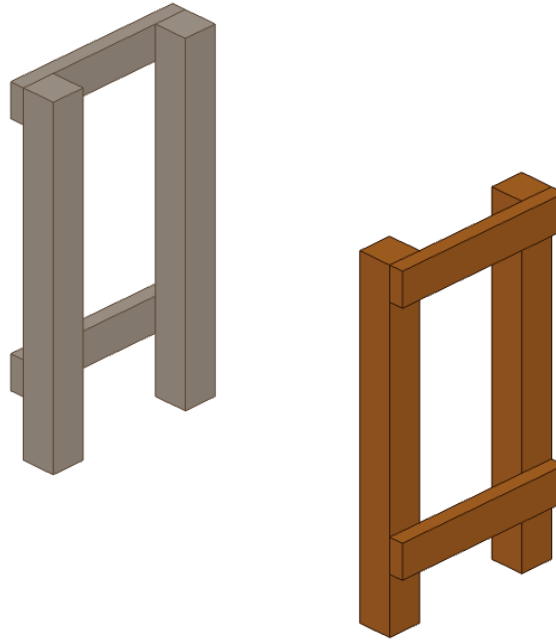
Side Frame (2)

2× Leg (4x4, 35.3")

1× Side Apron (2x4, 19")

1× Side Stretcher (2x4, 19")

- Drive 4× 2.5" screws through **Side Apron** into **Leg**
- Drive 4× 2.5" screws through **Side Stretcher** into **Leg**



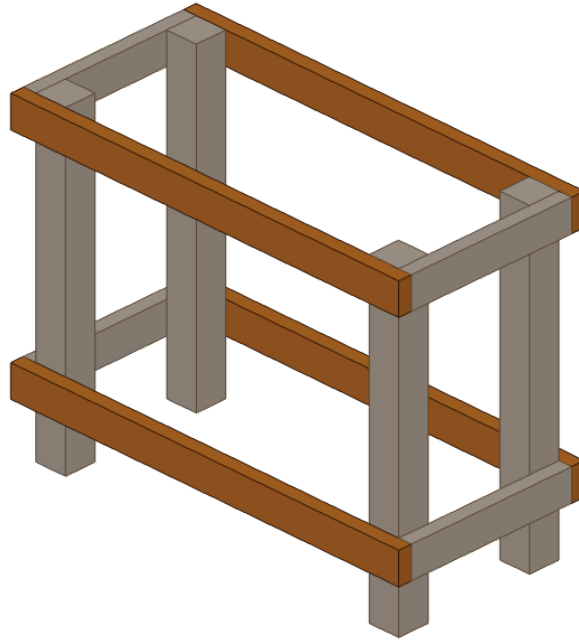
3

Frame Assembly

2× Apron (2x4, 46")

2× Stretcher (2x4, 46")

- Drive 8× 2.5" screws through **Apron** into **Leg**
- Drive 8× 2.5" screws through **Stretcher** into **Leg**



4

Top & Finishing Assembly

1× Plywood Top (*plywood, 24" × 48"*)

- Drive 4× 2" screws through **Plywood Top** into **Leg**
- Drive 2× 1.5" screws through **Plywood Top** into **Apron**

