Convertible Table

PROJECT PLAN

YellaWood. Pressure Treated Pine

Keep the dinner conversation going with this convertible table.

For this project, we combined the classic picnic table with a relaxing pair of benches to create a single multi-purpose piece of furniture. The duo presents two unique ways of enjoying the outdoors, and requires no complex cutting.

With a few angle cuts on a miter saw, the processing time is minimal. After the two bench seats are assembled, it's on to the arm assemblies and backrest.

Once the four components are complete, they are assembled together in such a way that the arm assemblies rotate to allow the backrests to become a table top.

Tackle this project if you'd like to spend a little time in the shop and extend your time outdoors. The dual function truly maximizes this piece's value, and you'll likely finding yourself switching between benches and tabletop often enough to consider building this project again for a friend or loved one.

BUILD TIME

5 HRS

DIFFICULTY

●●●○○

COST

$ $ $ $ $

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IMPORTANT REMINDERS

Read instructions to familiarize yourself with the entire process before beginning.

Always double check measurements before making cuts - Great Southern Wood is not responsible for incorrect cuts.

Select and use the best faces of boards on the outside of assemblies.

Pre-drill holes before attaching screws. Set ⅛" drill bit inside combination countersink bit to appropriate depth for each screw length called for.

Wood glue is optional: if you choose to use it, apply to surfaces before attaching parts, and be sure to wipe up excess with a damp cloth.

Check BuildYella.com for updates to plans and to view the video of this project.

Because wood stock can vary, dry-fit sub-assemblies as needed to ensure dependent parts align. Make any adjustments needed to part dimensions before final assembly.

The Cut List is based on the following actual dimensions for KDAT board stock:

1x2	¾" x 1 ½"
1x4	¾" x 3 ½"
1x6	¾" x 5 ½"
1x8	¾" x 7 ¼"
5/4 x6	⅞" x 5 ¼"
2x2	1 ½" x 1 ½"
2x4	1 ⅜" x 3 ¼"
2x6	1 ⅜" x 5 ¼"
2x10	1 ½" x 9 ⅛"
4x4	3 ¼" x 3 ¼"

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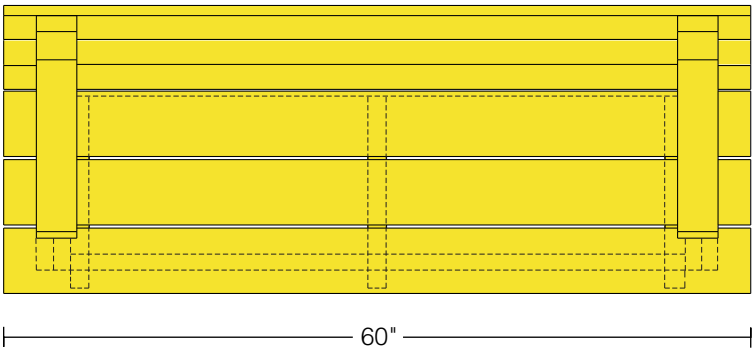
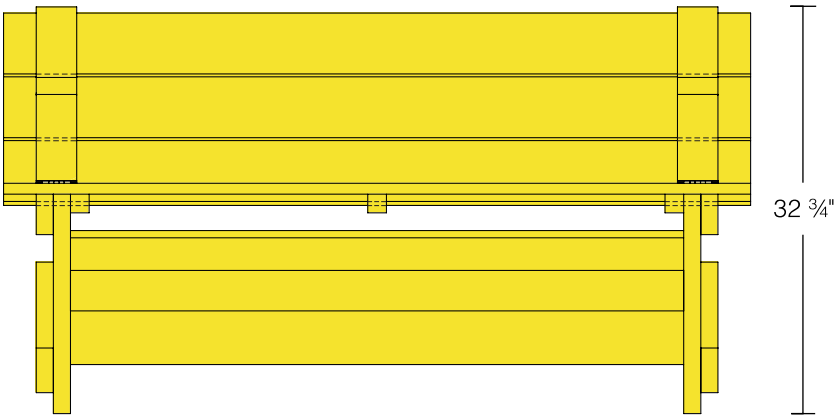
OVERALL SIZE

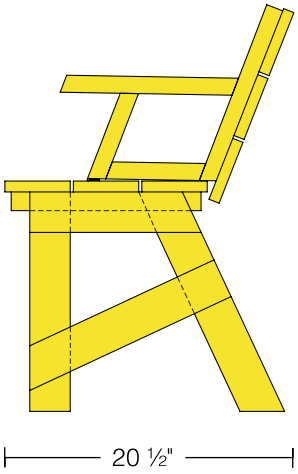
TOP — BENCH ORIENTATION



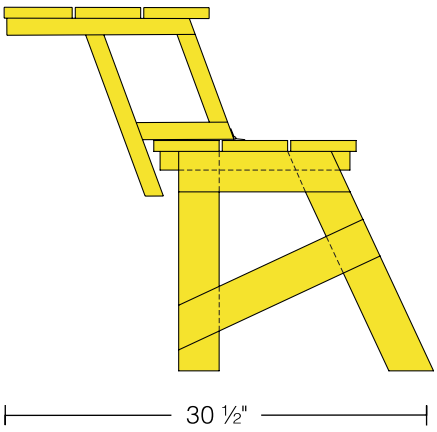
FRONT - BENCH ORIENTATION



SIDE - BENCH ORIENTATION



SIDE - TABLE ORIENTATION



Note: Diagrams not to scale.

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OVERVIEW OF STEPS

SEQUENCE OF BUILD

1: BENCHES

2: BACKRESTS

3: ASSEMBLY

4: FINISHING

BUILD TIME

CUTTING		ASSEMBLY		FINISHING		TOTAL
1 HR	+	3 HRS	+	1 HR	=	5 HRS

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WHAT YOU'LL NEED

MATERIALS

- ◯ **8x** 2x4x10' YellaWood® brand pressure treated pine
- ◯ **1x** 2x6x12' YellaWood® brand pressure treated pine
- ◯ **1x** 2x2x8' YellaWood® brand pressure treated pine
- ◯ **6x** ⅝x6x12' YellaWood® brand pressure treated pine

HARDWARE

½ LB BOX

- ◯ 2" wood screws + appropriate bit
- ◯ 2 ½" wood screws + appropriate bit

OTHER

- ◯ **4x** 2" galvanized hinges + appropriate bit
- ◯ **2x** 4" galvanized barrel locks + appropriate bit

WOOD FINISHING

- ◯ YellaWood Protector® Stain & Sealer

TOOLS


Pencil


Measuring tape


Miter saw
(or chop saw)


Drill / driver


Combination countersink bit
(with 3" long ⅛" bit)


Clamps
(two at least 5' long)


Radial sander
(or sanding block)


Paint/Stain Brush

SAFETY EQUIPMENT

- ◯ Work gloves
- ◯ Dust mask
- ◯ Safety glasses
- ◯ Ear protection

Notes:

Consider using YellaWood® brand KDAT and higher grade products to achieve more professional results.

Choose boards with minimal irregularity to get the most out of the stock. The cut list shows maximum nesting of parts per board. If unsure about board quality, purchase 1 extra piece of each board type.

Convertible Table

CROSS-CUT DIAGRAMS

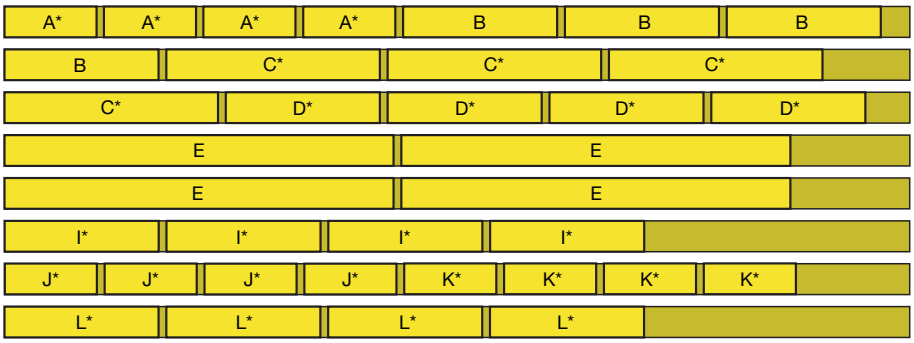
YellaWood. Pressure Treated Pine

PREP: CROSS-CUT ALL PARTS

Proceed to cut all parts listed below unless noted otherwise. Be sure to **label all parts** so you know which ones to use for the Assembly Steps that follow.

CROSS-CUT TO	PART	#
13 ¾"	A*	4x
17 ⅝"	B	4x
21"	C*	4x
17 ⅞"	D*	4x
49 ¼"	E	4x
15 ¼"	I*	4x
8"	J*	4x
7 ⅞"	K*	4x
14 ¼"	L*	4x

2x4x10' STOCK
8 BOARDS



CROSS-CUT TO	PART	#
49 ¼"	F	2x

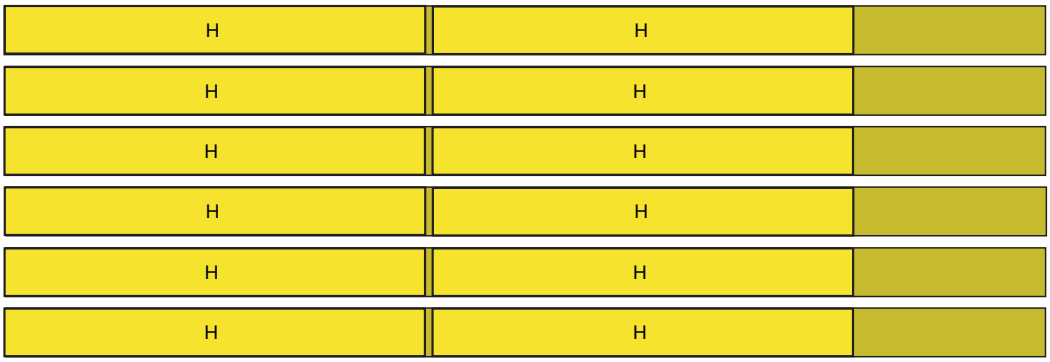
2x6x12' STOCK
1 BOARD

CROSS-CUT TO	PART	#
15 ¼"	G	6x

2x2x8' STOCK
1 BOARD

CROSS-CUT TO	PART	#
60"	H	12x

⁵/₄x6x12' STOCK
6 BOARDS



*Indicates detail cuts are required after initial cross-cutting. See next page for diagrams.

Note: Diagrams not to scale.

Convertible Table

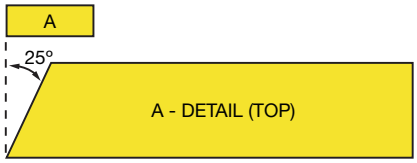
DETAIL CUT DIAGRAMS

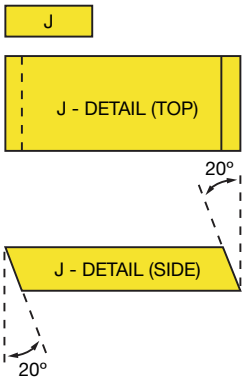
YellaWood® Pressure Treated Pine

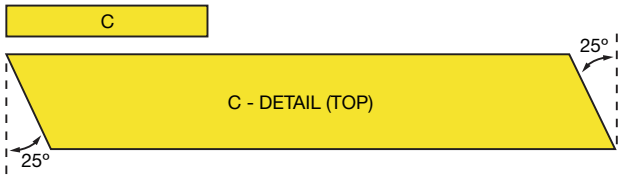
PREP:
DETAIL CUT PARTS

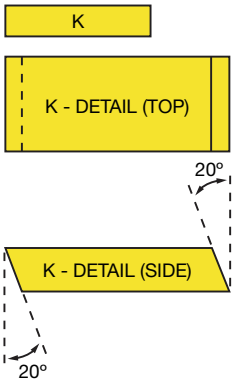
Proceed to cut all parts listed below unless noted otherwise. Be sure to **label all parts** so you know which ones to use for the Assembly Steps that follow.

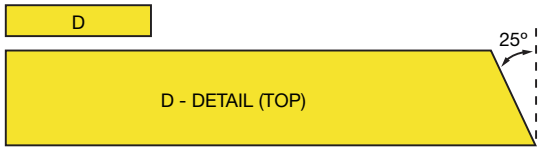
ANGLE CUTS

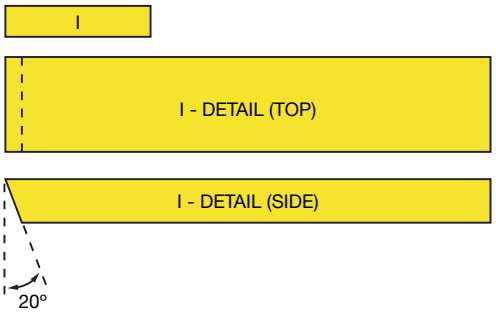












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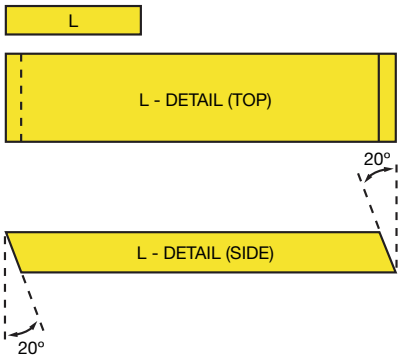


Note: Diagrams not to scale.

Convertible Table

ASSEMBLY

YellaWood. Pressure Treated Pine

SECTION 1: BENCHES

TOOLS

Drill / driver

Pencil

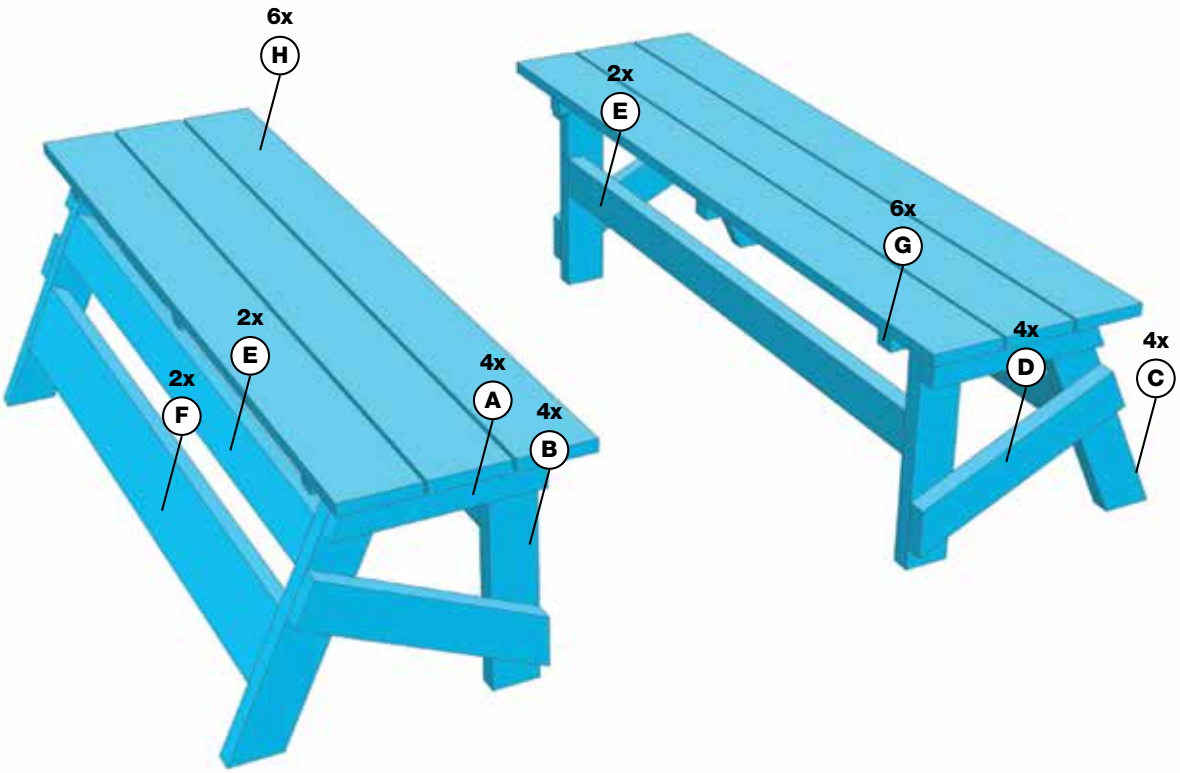
Measuring tape

Clamps
(at least 5')

Combination countersink bit
(with ⅛" bit)

SUPPLIES

2" screws
2 ½" screws



Convertible Table

ASSEMBLY

YellaWood. Pressure Treated Pine

SECTION 1: BENCHES

1 ☐

Begin by attaching Part (A) to Part (B), ensuring the top and sides are flush, with two 2 ½" screws diagonally placed.

2 ☐

Secure Part (A) to Part (C) with just one screw. Pivot Part (C) until the distance between Part (B) and Part (C) is 20 ½" .

3 ☐

Then, attach another screw to Part (A) to secure Part (C).

4 ☐

Place Part (D) 9" down from bottom right edge of Part (A) and secure one end.

5 ☐

Secure the other end after checking flush.

6 ☐

Repeat Steps 1-3 on another bench leg so that it mirrors the first one.

7 ☐

Take the new leg and place it flush with the completed leg to find placement for Part (D).

8 ☐

Attach Part (D) to Part (B).

9 ☐

Repeat the previous steps until you have two pairs of mirrored bench leg assemblies.

Convertible Table

ASSEMBLY

YellaWood® Pressure Treated Pine

SECTION 1: BENCHES

10 ☐

Space two bench leg assemblies apart the length of Part (E), and place Part (E) centered between Parts (A) and Part (D). Clamp Part (E) to Parts (B) so that it is 8 ¼" from the bottom edge of Part (B). Use two 2 ½" screws per side.

11 ☐

Flip the assembly over and attach another Part (E) so that it is 3 ¼" from the top of Part (C). Secure Part (F) on this side so it is 2 ¾" from Part (E). Use two 2 ½" screws per side. Repeat until you have created the second bench frame.

12 ☐

Next, space three Parts (H) on the work surface with their best face down and ¼" spacers in between them. Clamp the boards together, ensuring edges are flush. Secure one Part (G) centered within the Parts (H) with 2" screws.

13 ☐

Place a bench frame upside down on top of the bench seat you just made. Center the frame on the seat. Slide a Part (G) on the inside of the frame and attach to Parts (H) with two 2" screws per board.

14 ☐

Repeat on the other end.

15 ☐

Secure Part (G) to Part (B) and Part (C) on either end with one 2" screw, avoiding the adjacent screws on top of Part (G). Repeat on the other end.

16 ☐

Repeat Steps 12 — 15 to create the second bench.

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ASSEMBLY

YellaWood. Pressure Treated Pine

SECTION 2:
BACKRESTS

TOOLS


Drill / driver


Pencil


Measuring tape


Clamps

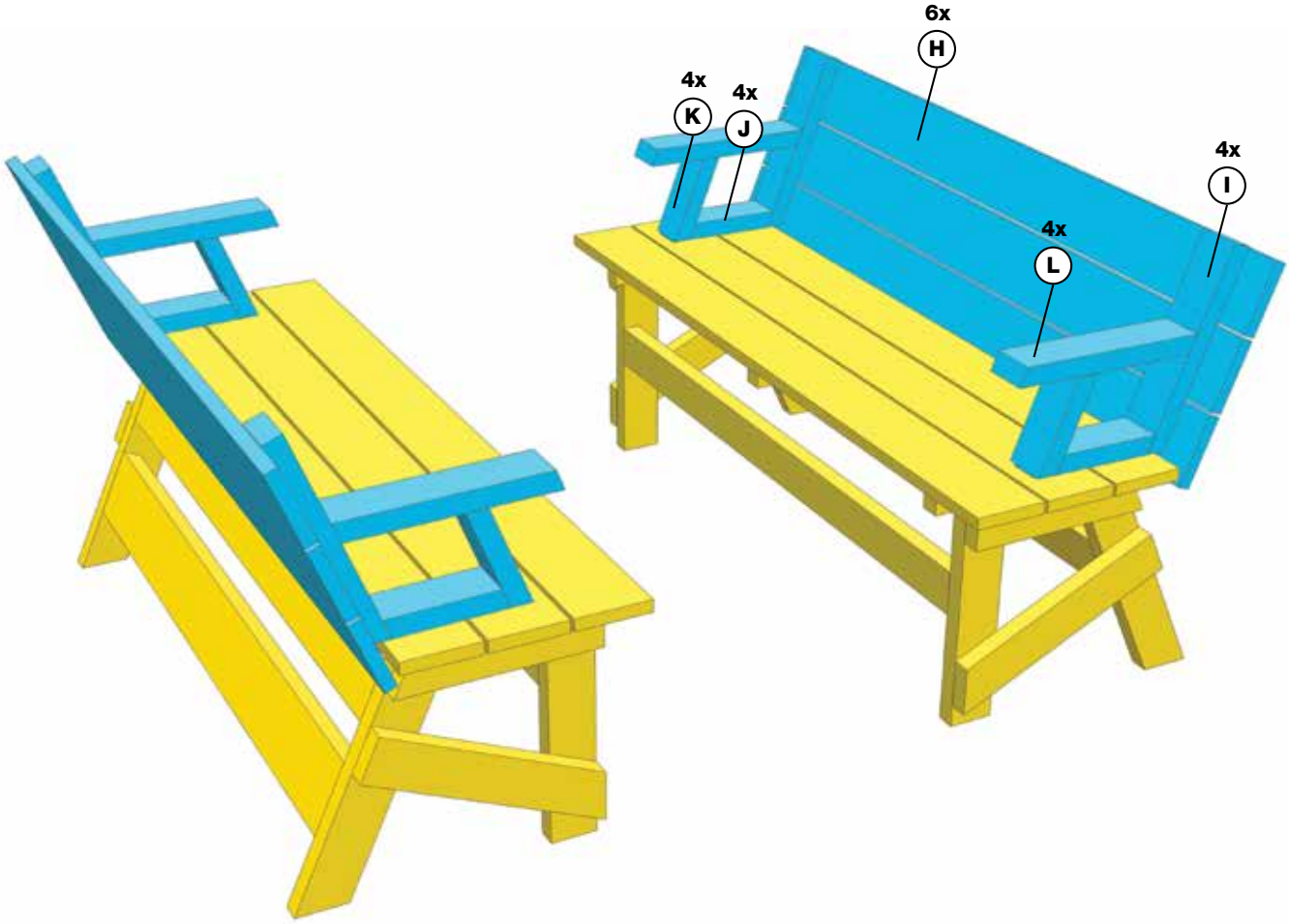

Combination countersink bit
(with 3" long ⅛" bit)


Radial sander
(or sanding block)

SUPPLIES


2" screws

2 ½" screws



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ASSEMBLY

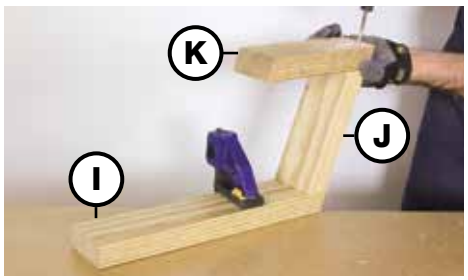
YellaWood. Pressure Treated Pine

SECTION 2: BACKRESTS

17 ☐

Attach Part (I) to Part (J) using two 2 ½" screws. Ensure their edges are flush.

18 ☐



Next, flip the component so that Part (I) is on the work surface, and attach Part (K) in the same manner.

19 ☐

Attach Part (L) on top of Part (K).

20 ☐

Secure Part (I) to Part (L). Ensure the spacing is the same between Parts (L) and (J) on both sides.

21 ☐

After you've made four arm assemblies, sand all the Parts (I) faces with coarse/ medium grit sandpaper with a radial sander or sanding block.

22 ☐

Lay out three Parts (H) with ¼" spacers in between and apply a clamp to the ends. Place an arm assembly 2 ⅝" from the ends of Part (H) and ⅛" from the top Part (H)*. Clamp as needed and secure with six 2" screws.

23 ☐

Continue attaching the other three assemblies until you have two completed backrests.

***Note**

The two ⅛" gaps from Part (I) to the top of Part (H) add up to ¼" when placed together, and thus continue the ¼" spacing through the table top.

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ASSEMBLY

YellaWood. Pressure Treated Pine

SECTION 3: BACKRESTS

TOOLS

Drill / driver

Pencil

Measuring tape

SUPPLIES

2" galvanized hinges

4" galvanized barrel lock

Convertible Table

ASSEMBLY

YellaWood® Pressure Treated Pine

SECTION 3: ASSEMBLY

24 ☐

Orient a bench so that the angled leg is facing you. Then measure and mark a line 9 ⅝" from the front lip of the seat as shown. Do this on both ends of the bench seat.

25 ☐

Place the backrest assembly on top of the bench with Part (K) face down. It should be centered and placed at the line you made in the previous step. Ensure that Part (L) has some clearance at the back of the bench.

26 ☐

Secure just the middle screw on the top and bottom of the hinges first.

27 ☐

Test that the backrest pivots easily from backrest position to half-table-top position.

28 ☐

Then you can secure all screw holes in the hinges. Repeat the previous steps on the second bench seat to have two benches.

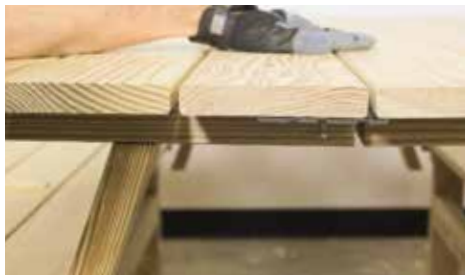
29 ☐

With the two benches facing each other, secure one end of a barrel lock onto the backrest so that it sits just shy of the edge of Part (H) as shown. Attach with provided hardware using appropriate bit.

30 ☐

On the facing bench, attach the receiving end of the barrel bolt using the same layout as the lock. Test that the barrel locks mate properly.

31 ☐



When placed together, the backrests continue the ¼" spacing through the table top. Add another bolt pair on the other end to complete the assembly.

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FINISHING

YellaWood® Pressure Treated Pine

SECTION 4: FINISHING

TOOLS

Radial sander
(or sanding block)

Paint/Stain
Brush

YellaWood® brand products provide the best available pressure treated lumber protection against rot, fungal decay, and termites. Sanding edges is recommended to reduce snags and splintering. At a minimum, we recommend annual application of a water repellent. You can also paint or stain it if you prefer.

32 ☐

Ease any sharp edges using a radial sander or sanding block with medium grit. Apply preferred finish to the wood.

33 ☐

We recommend long lasting YellaWood Protector® semi-transparent stain and water repellent wood sealer, the only stain backed by the famous Yella Tag. Follow manufacturer's recommendations for application.

CONGRATULATIONS. ENJOY YOUR NEW CONVERTIBLE TABLE!

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GALLERY OF IMAGES

YellaWood. Pressure Treated Pine

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FASTENER & HARDWARE INFORMATION

FOR INTERIOR OR EXTERIOR APPLICATIONS

Use fasteners and hardware that are in compliance with the manufacturer's recommendations and the building codes for their intended use. As with any good design and construction practices, treated wood should not be used in applications where trapped moisture or water can occur. Where design and/or actual conditions allow for constant, repetitive or long periods of wet conditions, only stainless steel fasteners should be used.

FOR EXTERIOR APPLICATIONS

The following minimum galvanization levels may be used for connectors, joist hangers, fasteners and other hardware that are placed in direct contact with exterior applications of micronized copper treated wood:

- **Fasteners –** nails, screws, etc. ASTM – A 153 (1 oz/ft²)
- **Hardware –** connectors, joist hangers, etc. ASTM – A 653 G90 (0.90 oz/ft²)

The effects of other building materials within a given assembly, along with environmental factors, should also be considered when selecting the appropriate hardware and fasteners to use for a given project containing treated wood.

Stainless Steel fasteners and hardware are required for Permanent Wood Foundations below grade and are recommended for use with treated wood in other severe exterior applications such as swimming pools, salt water exposure, etc. Type 304 and 316 are recommended grades to use.

ALUMINUM

Aluminum building products may be placed in direct contact with YellaWood® brand products used for interior uses and above ground exterior applications such as decks, fencing, and landscaping projects. Examples of aluminum products include siding, roofing, gutters, door and window trim, flashing, nails, fasteners and other hardware connectors. However, direct contact of treated products and aluminum building products should be limited to code-compliant construction applications that provide proper water drainage and do not allow the wood to be exposed to standing water or water immersion.

We recommend you contact the aluminum building products manufacturer for its recommendations regarding use of its aluminum products in contact with treated wood in ground contact applications or when exposed to salt water, brackish water, or chlorinated water, such as swimming pools or hot tubs.

Also check with the aluminum building products manufacturer regarding compatibility with other chemicals and cleaning agents and the use of their aluminum products in commercial, industrial, and specialty applications such as boat construction.

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IMPORTANT INFORMATION

- Consult the end tag to determine which preservative or preservative system was used in the treatment of that particular product. YellaWood® brand products may be used in direct contact with aluminum building products when limited to code-compliant construction applications that provide proper water drainage and do not allow the wood to be exposed to standing water or water immersion.
- Use fasteners and other hardware that are in compliance with building codes for the intended use.
- Do not burn preserved wood.
- Wear a dust mask and goggles when cutting or sanding wood.
- Wear gloves when working with wood.
- Some preservatives may migrate from the treated wood into soil/water or may dislodge from the treated wood surface upon contact with skin.
- Wash exposed skin areas thoroughly.
- All sawdust and construction debris should be cleaned up and disposed of after construction.
- Wash work clothes separately from other household clothing before reuse.
- Preserved wood should not be used where it may come into direct or indirect contact with drinking water, except for uses involving incidental contact such as fresh water docks and bridges.
- Do not use preserved wood under circumstances when the preservative may become a component of food, animal feed or beehives.
- Do not use preserved wood as mulch.
- Only preserved wood that is visibly clean and free of surface residue should be used. If the wood is to be used in an interior application and becomes wet during construction, it should be allowed to dry before being covered or enclosed.
- Mold growth can and does occur on the surface of many products, including untreated and treated wood, during prolonged surface exposure to excessive moisture conditions. To remove mold from the treated wood surface, wood should be allowed to dry. Typically, mild soap and water can be used to remove remaining surface mold. For more information, visit www.epa.gov.
- Projects should be designed and installed in accordance with federal, state and local building codes and ordinances governing construction in your area, and in accordance with the National Design Specification® (NDS) and the Wood Handbook.

DISPOSAL RECOMMENDATIONS

Preserved wood may be disposed of in landfills or burned in commercial or industrial incinerators or boilers in accordance with federal, state and local regulations.