Module Assembly Instructions

Important Before You Begin:

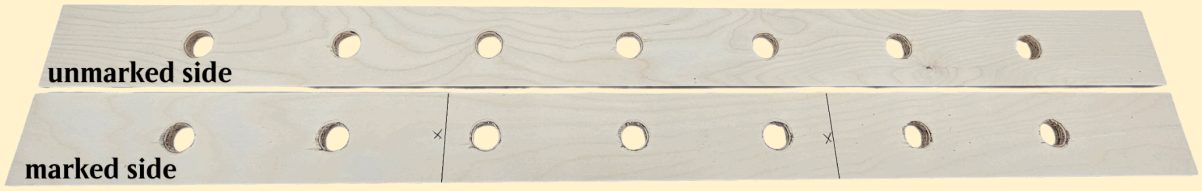
When your shipment arrives, **empty all boxes completely** and organize your parts by type. **Do not unwrap your modules.** All module frames are shrink-wrapped individually. It is recommended to unbundle and assemble one module at a time.

Parts Reference Guide

				
Pocket Screws (Dark grey): For assembling module frames, or any benchwork that has a pocket screw hole	**1-inch Silver Screws:** For attaching legs to the module frame	**Black Drywall Screws:** For attaching modules to each other	**Short Black Screws:** For installing wheels and leg adjusters	**#2 Square Drive Bit**

Module Frame Assembly

The difference between end members and cross members:

End Members - No pocket screw holes - Pencil alignment markings with “x”s	
Cross Members - Pocket screw holes on each side - Often arrives with Sharpie markings on the ends to help identify different-sized pieces	

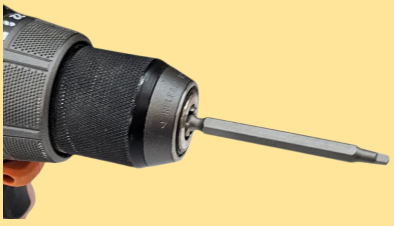
Step 1 — Prepare Your Boards

Only assemble one module at a time. Unwrap one bundle of boards. Lay the two end members (boards without pocket screw holes) on the ends side-by-side.

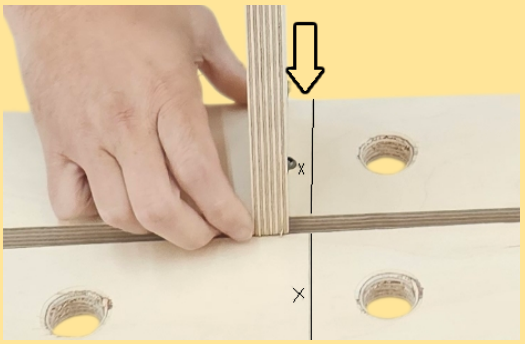
Ensure the printed lines and **X markings** are oriented the same way. This alignment is critical for correct assembly.

Step 2 — Prepare Your Drill

Insert the **#2 Square Drive Bit** into your drill. Leave as much of the bit exposed as possible - this helps the bit reach the screws cleanly.



Step 3 — Attach First Crossmember



Insert **one pocket screw into each of the *outer* holes** on a crossmember.

Place the crossmember so that it sits directly over an X mark of one of your end member boards you laid out, aligning the edge with the marked line.

Important: Use *pocket-hole screws only.* Using drywall screws will cause the plywood to split.

Step 4 — Drive Screws

Slowly drive in both screws. The board may shift slightly away from the marked line - this is normal.

If desired, slightly loosen the screws and tap the board back into alignment. If a hole strips out, simply use one of the additional holes provided.

You may use all four holes for extra strength if you prefer. (Extra screws available for purchase)

Repeat for all crossmembers.

Step 5 — Align Outer Crossmembers

Install the outermost crossmembers so that they sit *just barely* inside the board edge—about the thickness of a fingernail (roughly **1/32 inch**).

As the screws tighten, the crossmember will naturally pull itself into perfect alignment.

Step 6 — Flip the Assembly

Once all crossmembers are attached to the first board, **flip the entire frame over** - making sure you keep the orientation matched to the second board with X markings.

Step 7 — Attach Second Board

Attach the crossmembers to the second board exactly as you did in Steps 3–5.

Note: For 12-inch deep modules, you may need to shorten the drill bit extension to fit inside the frame.

Congratulations — Your Module Frame is Complete!

Repeat for all the modules.

Connecting Modules Into a Layout

For layouts with more than one module, this is the time to attach legs to your first module. The first module should get 4 L-Legs or 2 H-Legs. [See pages 5 and 6 for leg assembly].

MRB modules are designed to **support each other**, meaning you typically do not need four legs on every module, so modules built after the first can have 2 L-Legs or 1 H-Leg.

Standard Leg Planning

- First module: **4 L-legs**, OR **2 H-leg assemblies**
- Each additional module: typically **1 H-leg** or **2 L-legs**
- Exceptions: triangular or curved modules may require special placements

Need help with leg placement? Visit **MRBenchwork.com/Legs**

Securing Modules Together

When you are ready to secure two modules together, use clamps to hold the modules together and level. Use the **Black Drywall Screws** to join adjacent modules.

- Space screws **every 12 inches**
- Install screws **in pairs (one above the other)** for maximum strength

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Assembling Curved, Triangular, or Other Custom Modules

Non-rectangular benchwork pieces are marked with letters or numbers to show which parts belong together. Some orders may include both systems, but each module will use only one. If you ordered multiple of the same item, different colors will also be used to distinguish separate modules. Always assemble modules in **alphabetical or numerical order** based on the markings your pieces have, always with the **same color ink**, and always with the **same orientation.**

A A	Incorrect, needs same orientation
A A	Incorrect, needs same color
A B	Incorrect, needs same letter
A A	Correct, matches orientation, color, and same letter

H-Leg Instructions

Step 1 — Lay Out the Legs

Place both leg pieces side-by-side with the **X marks on the same side**.

Step 2 — Attach First Side of Crossmember

Insert **pocket screws** into all holes on one side of the crossmember (the piece with two marker lines).

Align the crossmember over the X mark and secure it, driving the **outer screws first**, then the inner screws.

Step 3 — Attach Second Side

Flip the assembly and repeat on the second leg. Your finished H-leg should resemble a clean “H” structure.

NOTE: the “L” marks face the same direction when laid flat, when assembled they will face opposite directions.

Step 4 — Insert Into Module

Every H-leg has a built-in **alignment notch**. This notch ensures the table’s weight rests **on the leg**, not on the plywood surface. This is why the top of the leg sits **½ inch below** the module top surface.

Place the notched ends of the H-leg into the frame so the leg runs **perpendicular to the long direction** of the module.

This usually leaves the module’s screw holes visible.

Step 5 — Secure With Silver Screws

Use **1-inch silver screws** to secure the leg.
Each joint requires **four screws**, arranged in a square pattern.

L-Leg Instructions

Every L-leg has a built-in **alignment notch**. This notch ensures the table's weight rests **on the leg**, not on the plywood surface. This is why the top of the leg sits ½ **inch below** the module top surface.

Attach the Leg

Using **only the 1-inch silver screws**, secure the L-leg to a module **corner**. Install screws in a **zig-zag pattern** across opposite corners for maximum strength. **Always attach L-legs to corners.**

Once the first module has its 4 legs installed, you may flip it upright and begin attaching additional modules (page 4).

Installing Wheels & Leg Adjusters

Use **Short Black Screws** for both wheels and adjusters.

Wheels	**Adjusters**
Wheels should be installed **as legs are installed**. - Install with 2 short black screws, one on each side of the leg	Adjusters can be installed **before or after** the layout is assembled. Adjusters can be operated using a flathead screwdriver. - Ensure adjuster is fully collapsed - Position adjuster so the foot sits flush with the bottom of the leg - Install with 4 short black screws

L-Leg Placement		**H-Leg Placement**	
Install the wheel or adjuster on the **wider side** of the leg bottom.		Center the wheel or adjuster on the bottom of the leg.	
			

Need Help? E-mail info@mrbenchwork.com or call (224) 201-9868.