



Woodworking Bench

Plan No. 866

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Any experienced woodworker can attest to the fact that a good workbench is one of the keys to success for any project. More than a simple work surface, a well-made woodworking bench incorporates precise angles and a level top that serve as gauges for other projects.

This do-it-yourself version features a heavy laminated top, a convenient storage bin underneath and a design that allows for a precision woodworking vise and bench stop.

The completed bench measures about 36 inches tall by 26 inches wide by 60 inches long, and is designed to fit a vise with a 4- by 7-inch jaw.

Bill of Material

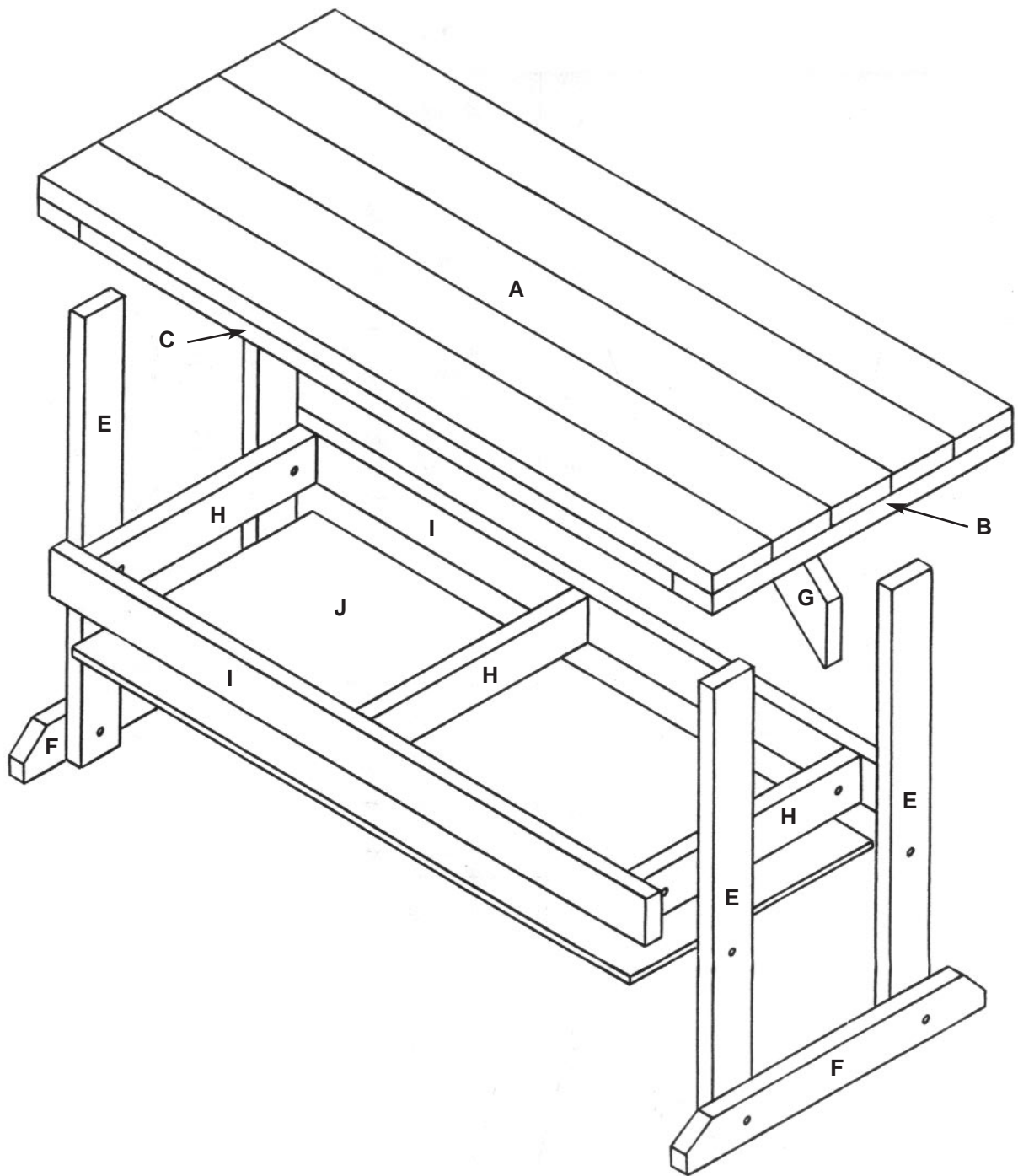
Quantity	Size	Material	Item
1	1 1/2" x 5 1/2" x 6"	Douglas Fir	A, K
2	1 1/2" x 5 1/2" x 10"	Douglas Fir	A
7	1 1/2" x 3 1/2" x 8"	Douglas Fir	B, C, D, E, F, G, H, I
1	1/2" x 24" x 6"	Plywood	
16	3/8" x 2"	Dowel Pins	
22	#10 x 1 1/2"	Flat head Phillips Wood Screws	
73	#10 x 1 1/2"	Flat head Phillips Wood Screws	
8	5/16" x 3 1/2"	Carriage Bolts, Washers, Nuts	
1	small bottle	Wood Glue	
1	quart	Finish	

Cutting Schedule

Part	Qty	T	W	L	Material
A	5	1 1/2"	5 1/4"	60"	Douglas Fir
B	2	1 1/2"	3 1/2"	26 1/4"	Douglas Fir
C	2	1 1/2"	3 1/2"	53"	Douglas Fir
D	1	1 1/2"	3 1/2"	19 1/4"	Douglas Fir
E	4	1 1/2"	3 1/2"	34 1/2"	Douglas Fir
F	2	1 1/2"	3 1/2"	26 1/4"	Douglas Fir
G	2	1 1/2"	3 1/2"	24"	Douglas Fir
H	3	1 1/2"	3 1/2"	19 1/4"	Douglas Fir
I	2	1 1/2"	3 1/2"	53"	Douglas Fir
J	1	1/2"	22 1/4"	50"	Plywood
K	1	1 1/2"	5 1/2"	10"	Douglas Fir

NOTES

1. Select quality dry lumber to build your workbench. Lumber that has a high moisture content will have a tendency to shrink and warp.
2. Board K is used to mount your bench vise. I chose to mount the vise on the right front corner of the bench. You may choose a different location that may be more convenient or comfortable for yourself.
3. I chose a fast-drying polyurethane clear satin finish. Give your project at least two coats. For a higher quality finished project, apply finish before final assembly.
4. Take care in the clamping process for the table top. Lumber must be square and flat to ensure a quality working surface when your project is finished.
5. Read manufacturer's instructions before operating equipment.
6. *Always* wear safety glasses.



Isometric
(Boards D and K not shown)

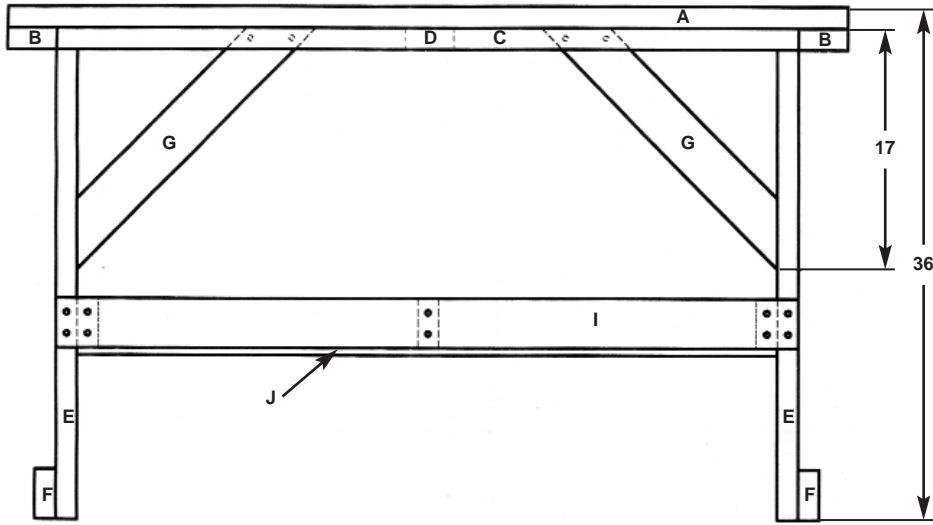


Figure 1

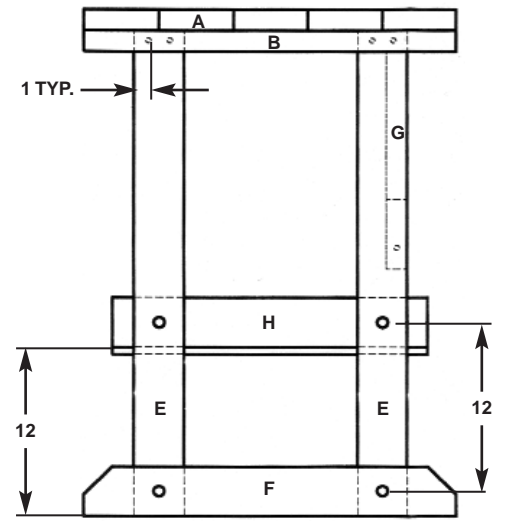


Figure 2

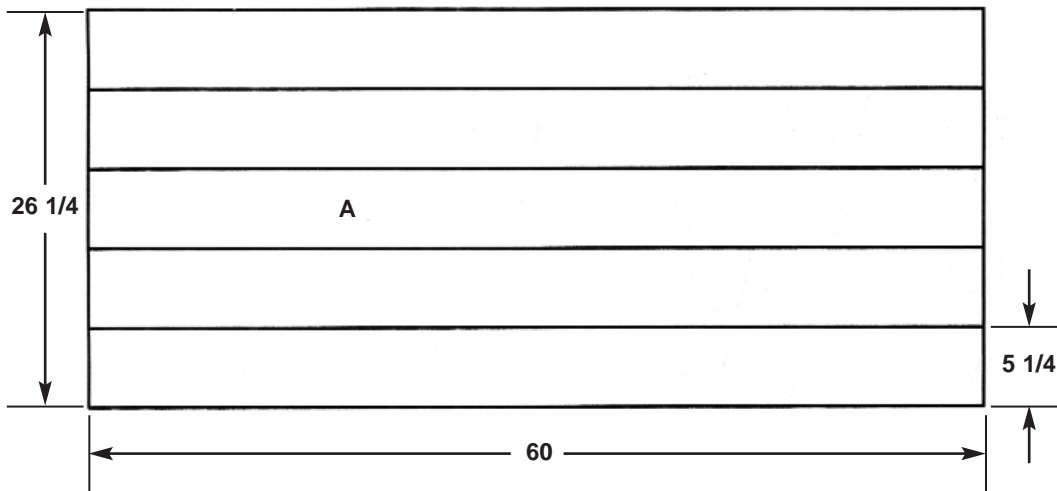


Figure 3
(Top View of Table)

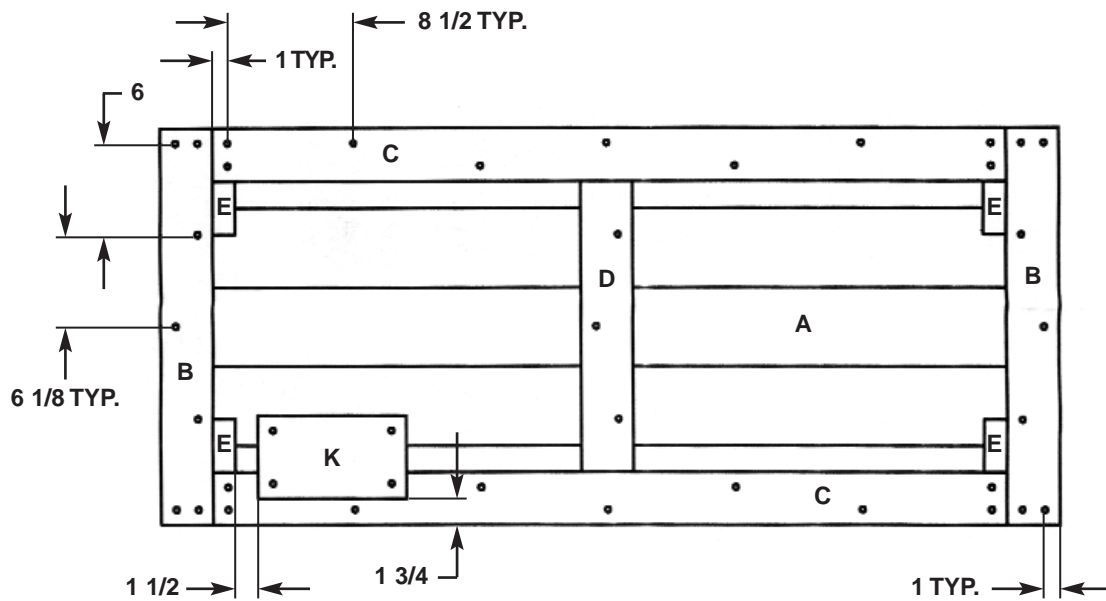


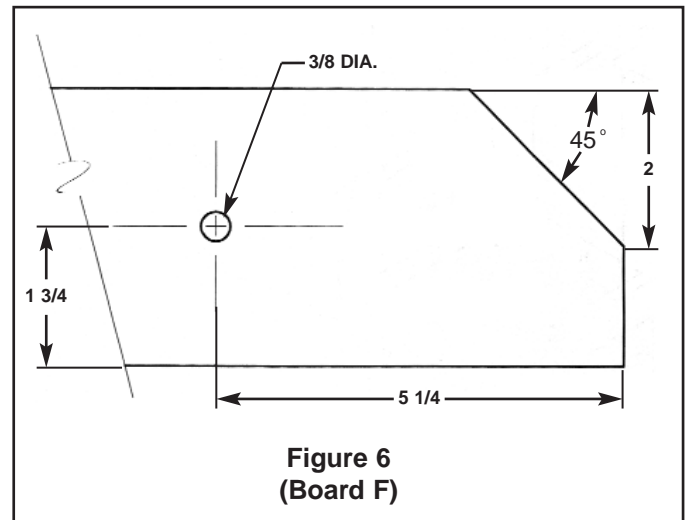
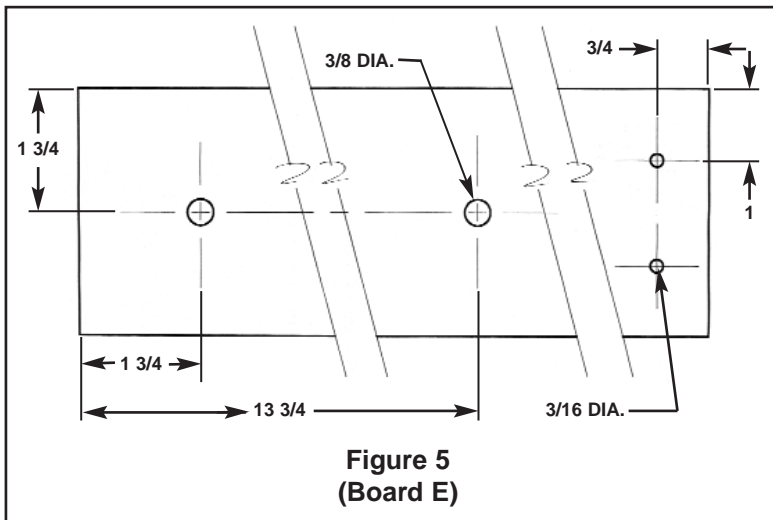
Figure 3
(Bottom View of Table)

Assembly Instructions

Page One

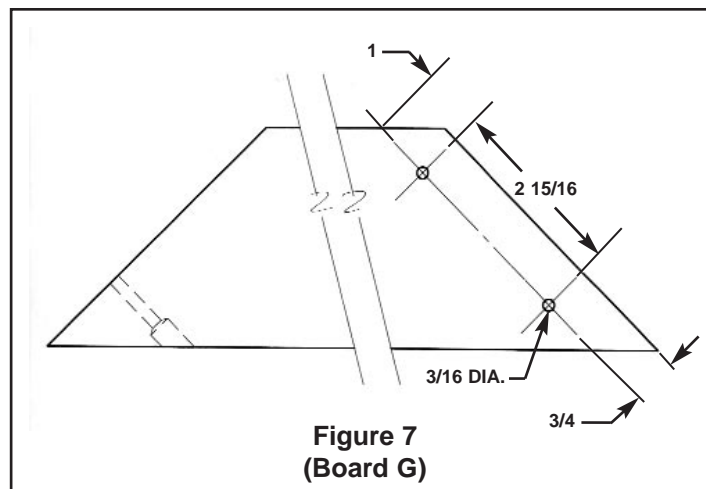
Read all instructions before beginning any work. Cut all material to sizes shown in cutting schedule.

1. Resaw 2 x 6 lumber to eliminate the radius on the edges. Using at least four equally spaced dowel pins between each board, glue and clamp lumber to form benchtop (see Figure 3). Check for flatness.
2. Attach boards B, C and D to underside of bench top with #10 x 2 1/2" wood screws (see Figure 4). Notch one of the C boards for bench vise at this time (optional).
3. Assemble legs from boards E and F with 5/16" x 2" carriage bolts (see Figures 5 and 6). Attach leg assemblies to boards B using #10 x 2 1/2" wood screws.



4. Bolt boards H to boards E (see Figure 2). Check assemblies for squareness.

5. Drill and attach diagonal braces G to boards C and E with #10 x 2 1/2" wood screws (see Figure 7). Squareness is a must.

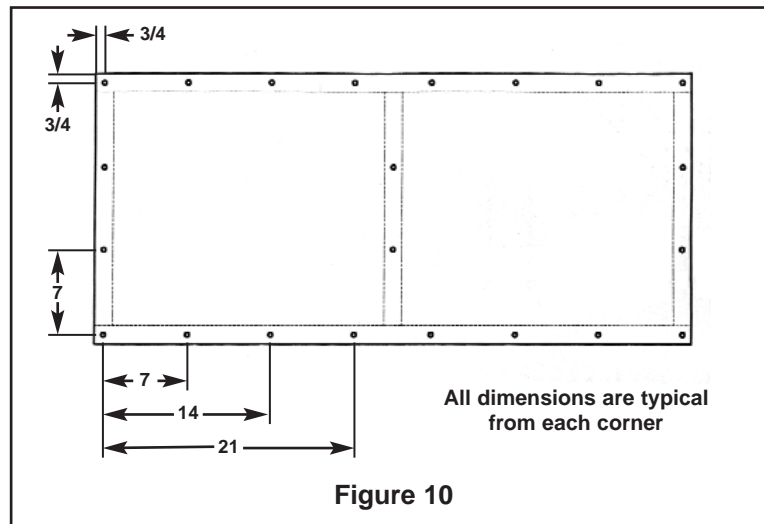
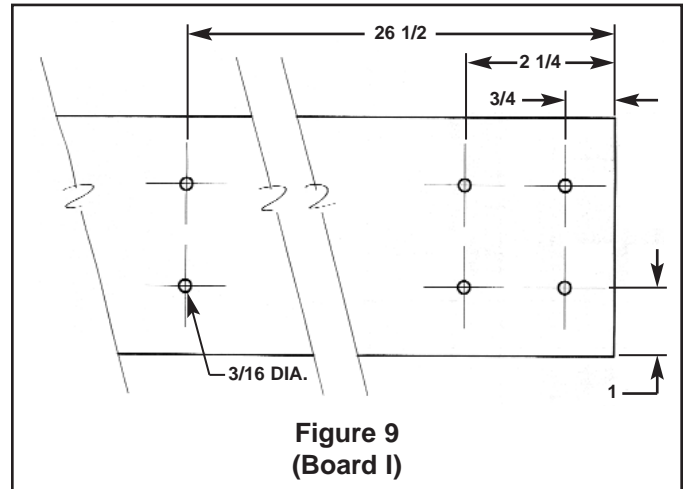
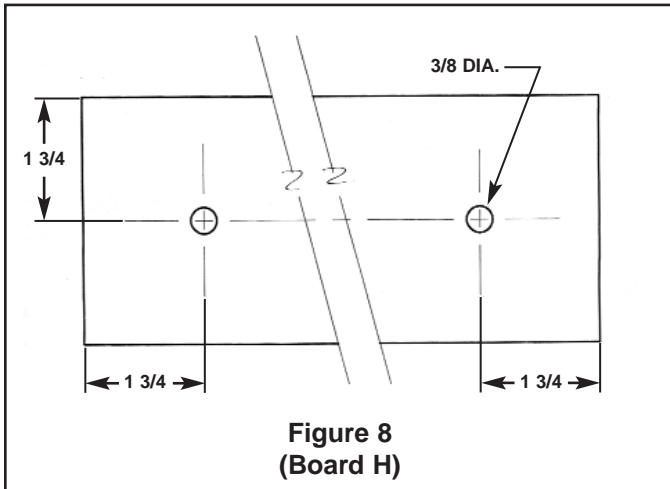


Assembly Instructions

Page Two

Read all instructions before beginning any work. Cut all material to sizes shown in cutting schedule.

6. Use #10 x 2 1/2" wood screws to attach I to H and J to H and I (see Figures 8, 9 and 10).



7. Attach vise mounting board (see Figure 11) in notched area using four #10 x 2 1/2" wood screws. Attach vise and turn right side up.

