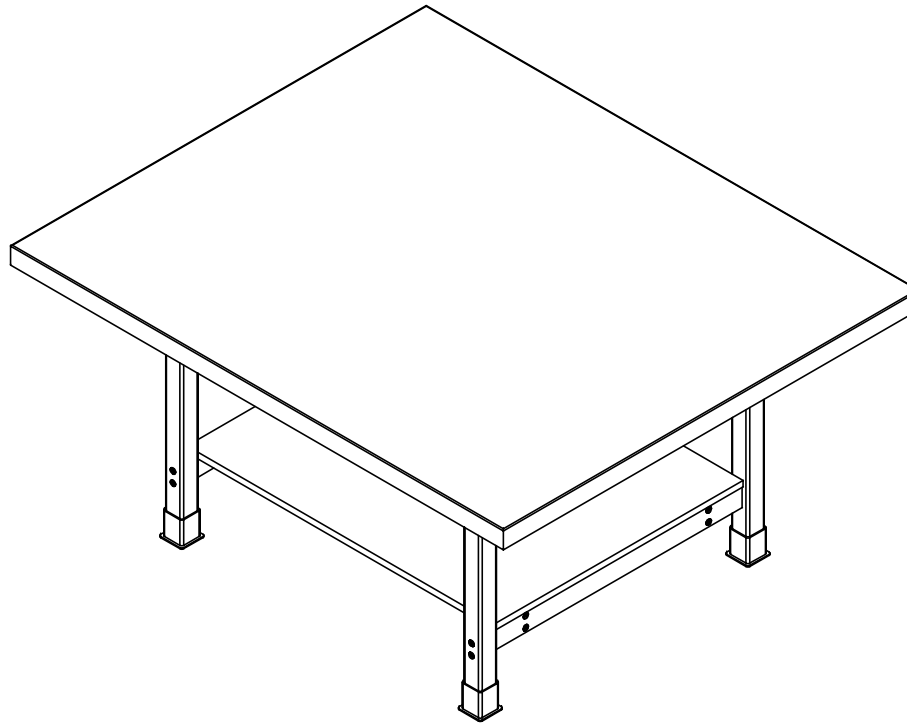


OPEN-STYLE WOOD WORKBENCH

WW2-0V, WW2-1V, WW2-2V, WW4-0V, WW4-2V, & WW4-4V SERIES

ASSEMBLY INSTRUCTIONS



NOTE:

1. MODEL VIEWS MAY NOT REPRESENT EXACT MODEL PURCHASED

DWN BY:	EMK	DWN DATE:	10/27/14
APR BY:		DATE APR:	
APR BY:		DATE APR:	

UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES
CABINET SQUARENESS ± .0625
FRACTIONAL VALUES ± 1/32"
- ALL VALUES ± OVERALL -



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TITLE:
OPEN-STYLE WOOD WORKBENCH
ASSEMBLY INSTRUCTIONS

REV.	DESCRIPTION	DATE	NAME	ECN NO.
A	CREATED ASSEMBLY INSTRUCTIONS	10/27/14	EMK	-

REVISION LEVEL

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DRAWING NUMBER:

WW2 & WW4

SCALE:

NTS

SHEET:

1 OF 8

REVISION:

REV A

TOOLS REQUIRED

4MM ALLEN WRENCH
1/2" WRENCH
1/2" SOCKET AND TORQUE WRENCH - OPTIONAL
SCREW DRIVER

ASSEMBLY COMPONENTS

ITEMS INCLUDED	PART #	PART DESCRIPTION	QTY
TOP AND APRON ASSEMBLY	VARIES	TOP ASSEMBLY (FACTORY ASSEMBLY)	1
LEGS	501100	LEG,MPL 2.25X2.25X28.25	4
LEG HARDWARE	520001-4	LEG HARDWARE KIT, 4 LEGS	1
LEG BOOTS	100076	LEG BOOT, BLK RUBBER	4
LEG BRACE	N/A	LEG BRACE - SIZE VARIES	2
STRETCHER	N/A	STRETCHER - SIZE VARIES	2
SHELF	N/A	SHELF - SIZE VARIES	1
CONFIRMATS - LEGS	227578	SCREW,7MMX90MM,CONN,ALLENHEAD, BLACK	8
CONFIRMATS - STRETCHERS	228564	SCREW,7MMX50MM,CONN,ALLENHEAD, BLACK	8
SCREWS - SHELF	100066	SCREW,#8X1.5 FSQ SMS TYPE 17	6
VISES - OPTIONAL	234708	VISE - SHAIN CUSTOM VISE WITH LOGO	VARIES

NOTE:

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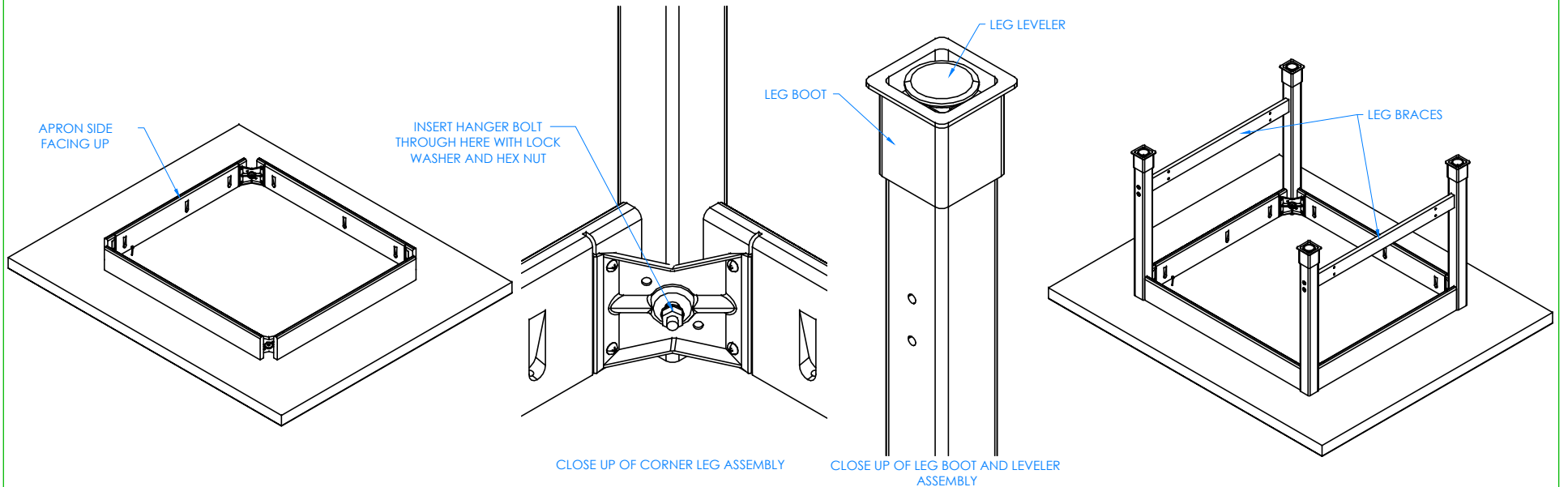
TITLE:
OPEN-STYLE WOOD WORKBENCH
TOOLS AND ASSEMBLY COMPONENTS

A	DESCRIPTION	DATE	NAME	ECH NO.
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WW2 & WW4 SERIES	NTS	2 OF 8	REV A



STEP 1:

LAY TOP ASSEMBLY ON FLOOR WITH APRON SIDE FACING UP. BE SURE TOP ASSEMBLY IS ON A CLEAN SURFACE TO PREVENT DAMAGE.

STEP 2:

INSERT HANGER BOLT ON ONE OF THE LEGS THROUGH THE CORNER BRACKET AND INSERT LOCK WASHER AND HEX NUT. USING A 1/2" WRENCH OR 1/2" SOCKET AND TORQUE WRENCH, SCREW ON THE NUT BUT DO NOT TIGHTEN ALL THE WAY. REPEAT FOR THE OTHER LEGS.

STEP 3:

SLIDE LEG BOOT ONTO LEGS WITH FLARED END TOWARDS THE BOTTOM OF THE LEG. SCREW LEG LEVELERS INTO T-NUT ON BOTTOM OF THE LEGS.

STEP 4:

USING A 4MM ALLEN WRENCH, INSERT THE CONFIRMATS INTO ONE LEG AND SCREW INTO THE BRACE. REPEAT FOR THE OTHER 3 LEGS. MAKE SURE BRACES ARE STRAIGHT AND ALL CONFIRMATS ARE TIGHT.

NOTE:

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 ASSEMBLY INSTRUCTIONS

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REV.	DESCRIPTION	DATE	NAME	ECH NO.

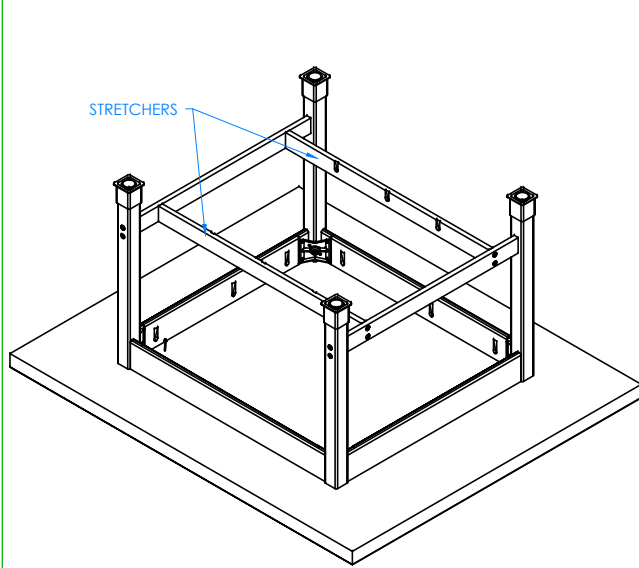
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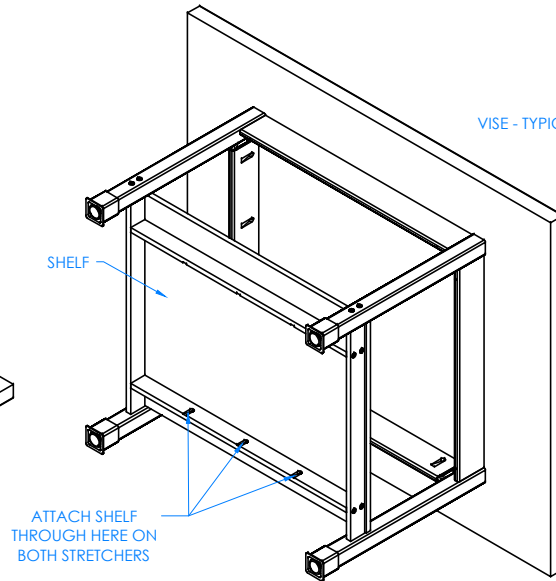
WW2 & WW4 SERIES

SCALE:	SHEET:	REVISION:
NTS	3 OF 8	REV A



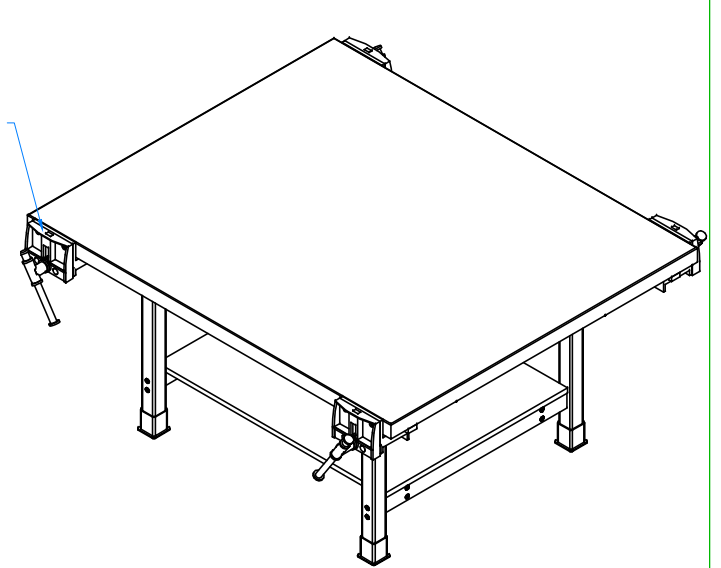
STEP 5:

INSERT STRETCHERS ONCE THE LEG BRACES ARE IN POSITION. ATTACH STRETCHERS WITH CONFIRMATS PROVIDED. GO BACK TO STEP 2 AND TIGHTEN UP THE HANGER BOLTS FOR EACH LEG USING A 1/2" WRENCH OR 1/2" SOCKET AND TORQUE WRENCH, TO A MINIMUM OF 12FT LBS. BUT NOT TO EXCEED 17FT LBS.



STEP 6:

WITH HELP FROM ANOTHER PERSON, TIP TABLE ON ITS SIDE AND SCREW ON SHELF TO THE STRETCHERS WITH SCREWS PROVIDED.



STEP 7:

TURN TABLE OVER SO TOP IS UP. SET YOUR TABLE IN PLACE AND ADJUST THE LEG LEVELERS TO LEVEL THE TABLE. SLIDE LEG BOOTS DOWN TO THE FLOOR. ATTACH VISES IF INCLUDED.

NOTE:

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WW2 & WW4 SERIES	NTS	4 OF 8	REV A

Warning:

Misuse of vises can cause serious injury to eyes, hands and or other body parts. Visers must be set up and used properly. Before setup and use, read, understand and follow all instructions outlined.

ALWAYS make sure bench tops are properly secured.

Never use a hammer, extension pipe, or cheater bar on spindle handle of vise.

ALWAYS use proper mounting hardware in all mounting holes to hold vise securely.

NEVER unscrew movable jaw beyond maximum specified opening of vise.

ALWAYS inspect mounting hardware to ensure vise is securely fastened to work bench.

NEVER weld vise to any metal object.

ALWAYS inspect vise for stress fatigue or damage to the vise before using.

NEVER use a vise to press an object into or out of another object.

ALWAYS use vise of proper size and capacity to hold work object.

NEVER place pressurized containers or combustible materials in vise.

ALWAYS wear eye, face, and ear protection when using a vise.

NEVER wear loose clothing or jewelry while operating vise.

ALWAYS wear dust mask or respirator when working with wood, metal, chemical dusts or mists.

NEVER apply extreme heat or prolong heat to the vise as it may alter structural properties.

ALWAYS rest work piece against front jaw and guide rods.

NEVER tighten work piece at the edge (top or side) of the vise as this may break vise casting

ALWAYS wear restrictive hair covering and anti slip footwear while operating vise.

ALWAYS only hand tighten vise.

ALWAYS maintain the vise – grease main screw regularly.

Mount Back Jaw Casting to Workbench

- Pre-drill holes for mounting screws using template provided. Be sure to drill holes straight and deep enough to accommodate the full length of the screw. Use recommended drill sizes only (see template provided).
- It is **CRITICAL** that the back jaw casting is mounted firmly and accurately to the workbench surface. **NO GAPS** between the casting and the workbench should be present. Use shims as needed. Refer to figure #1 below.
- **DO NOT** attach the vise to the end grain side of the workbench. By attaching the vise to the side grain side of the workbench the mounting screw will have a much stronger hold.
- When attaching the back jaw casting to the workbench, take care to ensure there is full contact of the casting to the workbench surface before tightening the mounting screws.
- The vertical portion of the back jaw against the front edge of the workbench and the horizontal portion of the casting on the underside of the bench must have full contact with the workbench. Use shims to eliminate any gaps that may be present.
- Any gaps between the casting and the workbench surface will cause flexing of the casting when tightened down, which could result in failure of the casting. Figure 1.
- **MOUNTING HARDWARE:** Use the #14 x 1-1/2" Counter-Sink Wood Screws (2) for the front edge mounting holes and the 5/16" x 2-1/2" Lag Screws (2) and the 5/16" Flat Washers (2) for underneath the workbench

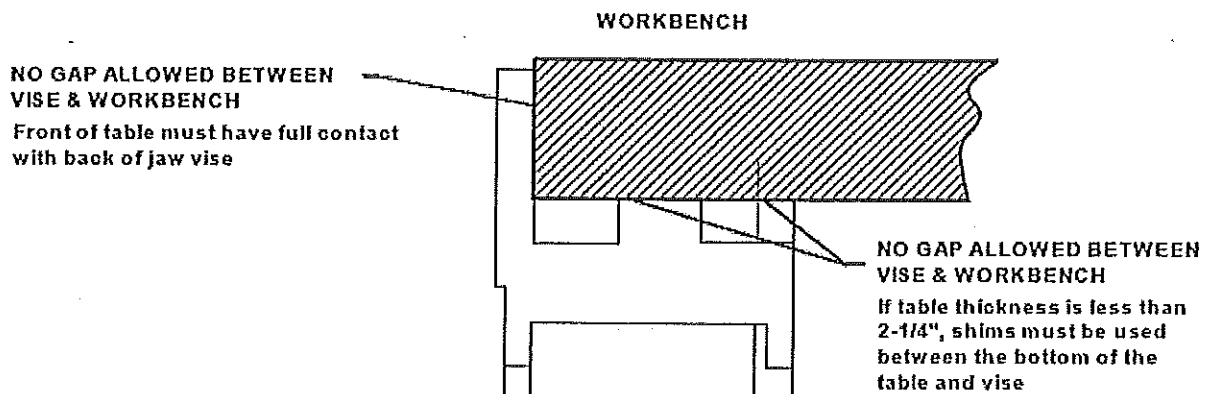


Figure 1: Mount Back Jaw Casting to Work Bench

Caution:

Do not exceed the maximum applied torque of 1,000 inch-pounds (125 foot-pounds). Also, failure to rest work piece against the front jaw and the guide rods may also cause the castings to flex resulting in failure. See Figure 2.

