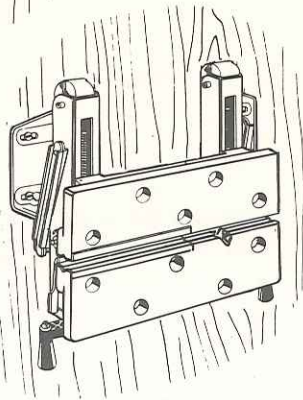
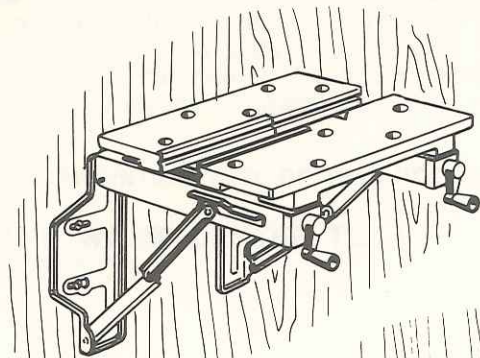
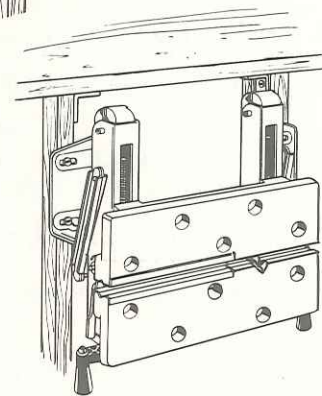
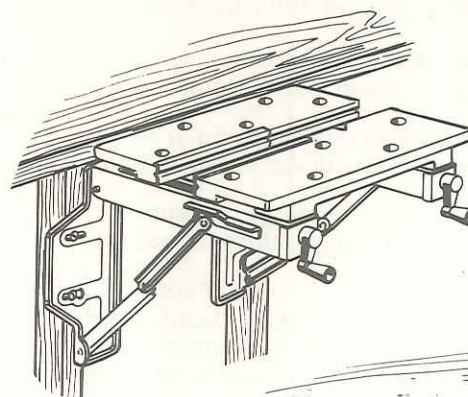


Dec. 27, 1987



Black & Decker

**79-021
DROP LEAF
WORKMATE®
WORK CENTER & VISE**



Your new WORKMATE® Work Center is a quality piece of equipment that has been carefully designed and manufactured to provide years of dependable service.

This instruction manual will familiarize you with the Work Center. It lists important facts and features which describe the Work Center's construction and basic working techniques.

Complete set-up instructions and various situations are also provided. Read this manual carefully. Only by being totally aware of what the Work Center can do will you be able to put it to the numerous tasks that it is capable of performing.

Save this manual for future reference.

OWNER'S MANUAL

Wt. 14 LBS. 10ozs.

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SAFETY RULES

1. Do not load with more than 200 pounds.
2. Do not use the Work Center as a step ladder or standing platform.
3. Do not store outdoors or in damp areas.
4. Be sure that both locking levers are fully locked before using.
5. When using power tools to mount or work with your Work Center, follow the tool's safety precautions listed in its Owner's Manual.
6. Always wear safety glasses when using power or hand tools.
7. See "Using Power Equipment" section of this manual for the correct method of mounting power tools in your Work Center. Never clamp power tools directly in the vise jaws; pressure may damage tools.
8. An even pressure on the work piece is essential. Tighten both vise handles uniformly.
9. Carefully follow the instructions for mounting your Work Center. Failure to do so may be hazardous.
10. Avoid contact with gasoline, turpentine, or other solvents which could seriously damage the plastic vise jaws.
11. Keep children away from work area.
12. Set, do not drop objects on unit.

LIST OF COMPONENTS:

Your WORKMATE® Work Center & Vise carton contains:

1. One catalog number 79-021 WORKMATE® Work Center & Vise with metal jaw covers.
2. Two number 134387 vise jaw snap in handles.
3. Four swivel pegs.
4. Four number 14 x 3" round head wood screws.
5. One specially designed mounting template.
6. One Owner's Manual with complete mounting instructions.

MOUNTING INSTRUCTIONS

Your WORKMATE® Work Center is designed to be mounted on wooden or metal work benches or on wood studded walls. These mountings will be discussed in detail in this Manual. Other mounting surfaces such as metal studded walls, or masonry walls are not recommended because of the difficulty of attaining a firm mount. However, if you are determined to mount your Work Center on one of these nonrecommended surfaces, be sure that it is securely done.

CAUTION: INSECURE MOUNTING MAY BE HAZARDOUS.

I. MOUNTING THE WORK CENTER TO A WOODEN WORKBENCH

Equipment needed:

1. Large, flat bladed screwdriver
2. Eight heavy duty angle brackets that will accommodate (4) $\frac{1}{4}$ " diameter screws each.
3. Masonry screw anchors as necessary.
4. $\frac{1}{4}$ " diameter screws as necessary.

(Note — Only the #14 x 3" woods screws for mounting the Work Center are supplied. All other hardware is available at your local hardware store).

For the greatest utility, the Work Center should be mounted in such a way that the work surface is level with the workbench top as shown in Figure 1. Perform the following steps carefully and completely.

1. Securely fasten your workbench to the floor or wall using 4 heavy duty angle brackets as shown in Figure 2 (depicts floor mount only). Use $\frac{1}{4}$ " diameter screws and anchors as necessary. Failure to secure your workbench may be hazardous.
2. Using two more heavy duty angle brackets, mount (2) 2" x 4" studs to the top surface of your workbench as shown in Figure 3. Be sure that the narrow ($1\frac{1}{2}$ " wide) surfaces of the studs are facing out as shown. These studs should be 16" apart (on centers) and long enough to reach the floor. (Study Figure 3 before mounting).
3. After attaching the studs to the top of your workbench, securely fasten the lower ends of them to the floor. Use masonry anchors as necessary.

FIG. 1

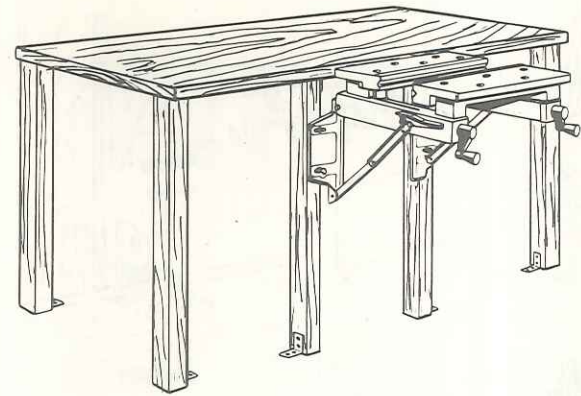


FIG. 2

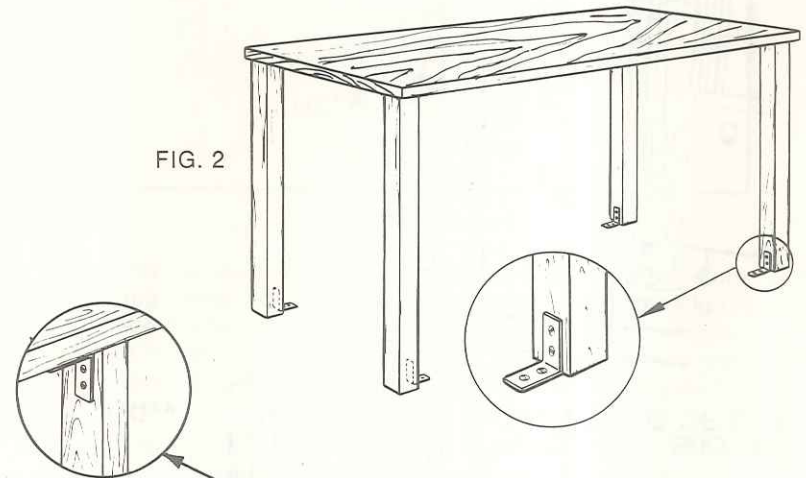
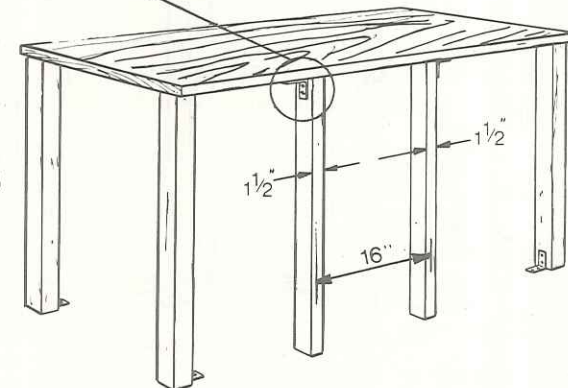


FIG. 3



4. Tape the provided template to the studs you just mounted so that the top edge of the template is even with the top of the workbench and the center line (C) markings of the template align with the center lines of the studs. (As an aid, you can mark the stud center lines with a pencil before mounting the template). See Figure 4.
5. Disregarding the "STUD CENTERING PROCEDURE" at the lower center of the template, drill (4) $\frac{3}{16}$ " diameter pilot holes 3" deep as indicated on the template.
6. Remove the template and following the pilot holes you just drilled, drill (4) $\frac{1}{4}$ " diameter by $\frac{3}{4}$ " deep clearance holes. Use a drill stop or other means to insure that these holes are exactly $\frac{3}{4}$ " deep. **CAUTION: IF THEY ARE DRILLED TOO DEEP, A HAZARDOUS CONDITION MAY RESULT.**
7. Screw two of the provided #14 x 3" wood screws into the bottom two $\frac{1}{4}$ " holes until the screw heads are about $\frac{1}{4}$ " from the surface of the studs. Do not, at this time, drive any screws into the two top holes.
8. Slip the Work Center's mounting bracket over these two screw heads as shown in Figure 5 and slide the Work Center slightly to the right.
9. Securely tighten the two bottom screws and install and tighten the two remaining #14 x 3" wood screws in the top two holes.
10. Your WORKMATE® Drop Leaf Work Center and Vise is now properly mounted and ready for use.

II. MOUNTING THE WORK CENTER TO A METAL WORKBENCH

Follow the instructions for "Mounting the Work Center to a Wooden Workbench" except use $\frac{1}{4}$ " bolts with lockwashers and nuts to attach angle brackets to metal pieces as shown in Figure 6.

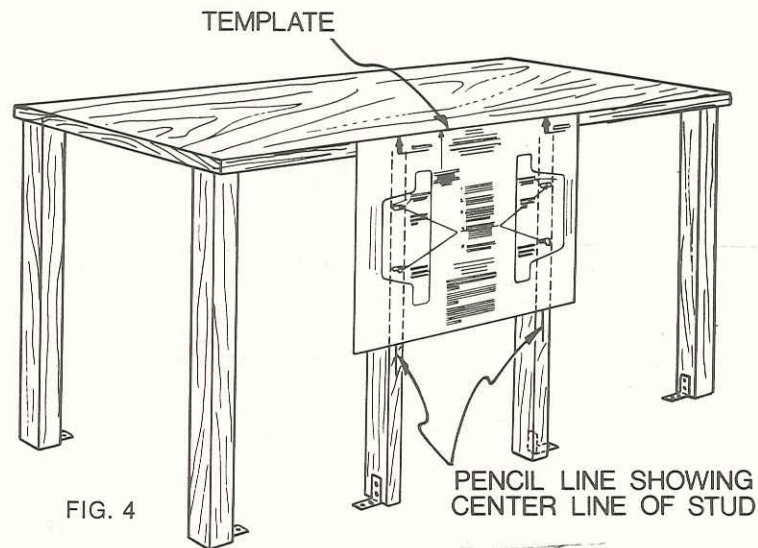


FIG. 4

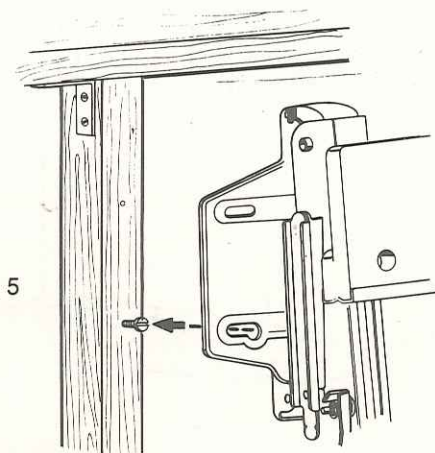


FIG. 5

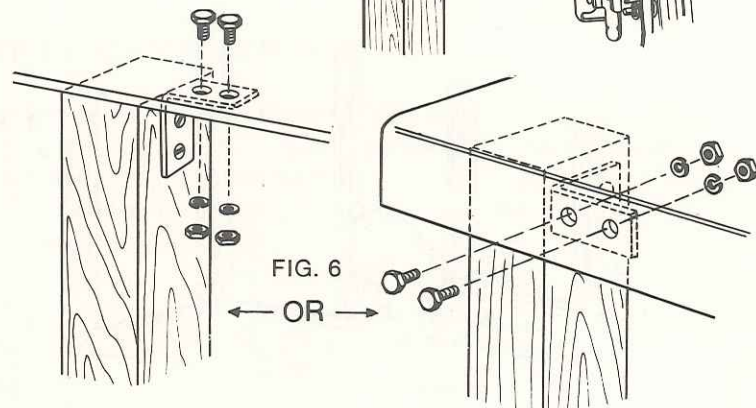


FIG. 6

III. MOUNTING ON WOOD STUDDED WALLS— 16" ON CENTER

(Studs not exposed)

Read and follow instructions carefully.

1. Determine where you want to mount your Work Center. (To fold your Work Center away, the space below it must be clear).
2. Find any 2 adjacent studs in that area. (Make sure that both studs go completely from the ceiling to the floor).
3. Using tape, mount the template provided on the wall as directed by the instructions printed on the template. (Suggested Work Center height—30" from floor).

CAUTION: IT IS ABSOLUTELY ESSENTIAL THAT THE MOUNTING SCREWS FOR YOUR WORK CENTER BE FIRMLY SEATED IN THE CENTERS OF THE STUDS. CAREFULLY EXAMINE THE INSTRUCTIONS ON THE TEMPLATE TO BE SURE THEY ARE FULLY UNDERSTOOD.

4. Determining stud centers (right stud only). **USE CAUTION WHEN DRILLING INTO WALLS TO PREVENT HITTING ELECTRICAL WIRES. HOLD DRILL ONLY BY PLASTIC INSULATING HANDLES.**

- a. With the template taped to the wall as shown in Figure 7, drill the two $\frac{1}{16}$ " diameter Assurance Holes (to assure stud centering) as indicated on the template. These holes must be at least 1" deep and as straight as possible.
- b. If, AND ONLY IF, both of the Assurance Holes hit wood, you have correctly positioned the template over the center of the stud. If the left Assurance Hole does not hit wood, the template is too far to the left and must be shifted to the right. If the right Assurance Hole does not hit wood, the template is too far to the right and must be shifted to the left. (See "STUD CENTERING PROCEDURE" on template).

NOTE: If neither Assurance Hole hits wood, you have not found a stud. Try again to locate one. When you have determined (both Assurance Holes in wood) that the right side of the template is positioned correctly over the center of the right stud, move to the left side and repeat steps 4a and 4b. If all 4 Assurance Holes hit wood, (2 on right, 2 on left) proceed to Step 5.

- c. If, at this point, both Assurance Holes on left side do not hit wood, one of two things is indicated:

1. Your studs are not on 16" centers. Follow the instructions for MOUNTING ON STUDDED WALLS—OTHER THAN 16" CENTERS.

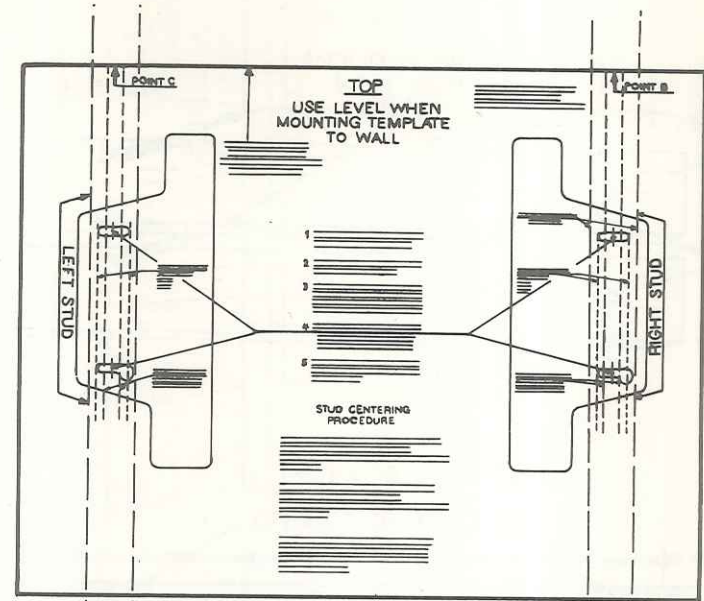


FIG. 7

2. One of your studs is not perpendicular to the floor. In this case, you can try shifting the template slightly to see if you can make it fit (all 4 Assurance Holes must be in wood). If this still does not work, follow the instructions for MOUNTING ON STUDDED WALLS—OTHER THAN 16" CENTERS.
5. Drill $\frac{3}{16}$ " diameter pilot hole 3" deep at each of the four places marked on the template. Drill $\frac{1}{4}$ " diameter by $\frac{3}{4}$ " deep clearance holes in the pilot holes you just drilled. Use a drill stop or other means to insure that the clearance holes are *exactly* $\frac{3}{4}$ " deep. **CAUTION: IF THEY ARE DRILLED TOO DEEP, A HAZARDOUS CONDITION MAY RESULT.** Remove the template from the wall.
6. Screw the provided #14 x 3" wood mounting screws into the 2 bottom pilot holes until the heads are about $\frac{1}{4}$ " out from the wall.
7. Slip the Work Center's mounting bracket over these two screw holes as shown in Figure 5 and slide the Work Center slightly to the right. NOTE: Figure 5 depicts mounting to a visible stud. You are mounting to a wall but the principal is the same.
8. Securely tighten the bottom two mounting screws and then install and tighten the top two mounting screws. Your Work Center is now properly mounted.

IV. MOUNTING ON WOOD STUDDED WALLS— OTHER THAN 16" CENTERS

(Studs not exposed)

1. Determine where you want to mount your Work Center. (To fold your Work Center away, the space below it must be clear).
2. Find any 2 adjacent studs in that area. (Make sure that both studs go completely from the ceiling to the floor).
3. Using tape, mount the template provided to the wall aligning the right side center line marks (point B on template) with the right hand stud you have located. (Suggested Work Center height—30" from floor). (Figure 8)
4. Determining stud centers (right stud only). **USE CAUTION WHEN DRILLING INTO WALLS TO PREVENT HITTING ELECTRICAL WIRES. HOLD DRILL ONLY BY PLASTIC INSULATING HANDLES.**
 - a. With the template taped to the wall, drill the two $\frac{1}{16}$ " diameter Assurance Holes as indicated on the template. These holes must be at least 1" deep and as straight as possible.
 - b. If, AND ONLY IF, both of the Assurance Holes hit wood, you have correctly positioned the template over the center of the stud. If the left Assurance Hole does not hit wood, the template is too far to the left and must be shifted to the right. If the right Assurance Hole does not hit wood, the template is too far to the right and must be shifted to the left. (See "STUD CENTERING PROCEDURE" on template).

NOTE: If neither Assurance Hole hits wood, you have not found a stud. Try again to locate one.
5. After you have assured that the template is properly positioned over the center of the right hand stud, drill both the upper and lower $\frac{3}{16}$ " pilot holes 3" deep as indicated on the template.
6. Carefully remove the template from the wall and reposition it so that point C on the template is over the left hand stud. Repeat steps 4 and 5 above.
7. Carefully remove the template and set aside. (It will be used again).
8. Measure the horizontal distance from the centers of the top pilot holes and the bottom ones (distance should be the same).
9. Obtain two lengths of 2" x 4" lumber 6 inches longer than the distance you just measured.

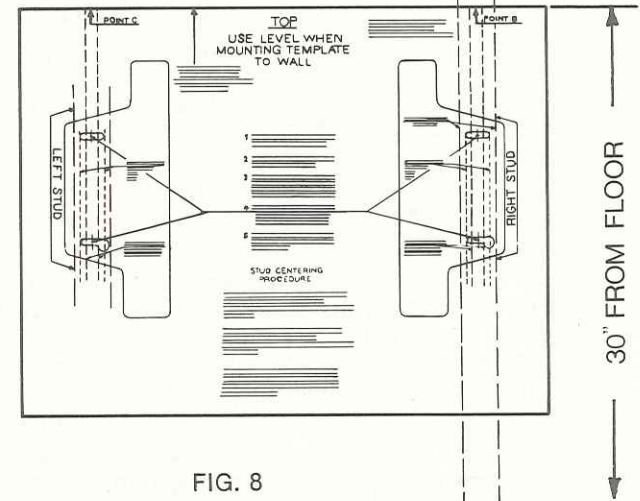


FIG. 8

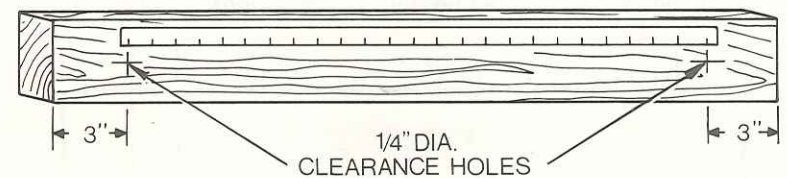


FIG. 9

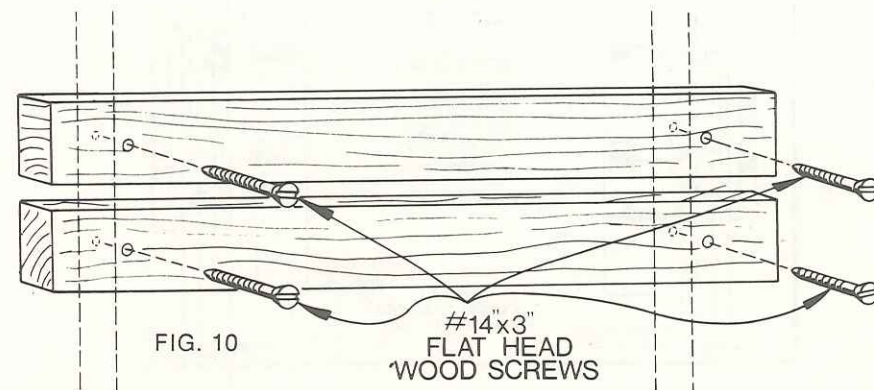


FIG. 10

10. Lay out the measured distance on the 3½" wide face on each of the boards as shown in Figure 9, and drill ¼" body (clearance) holes. Center the hole pattern on the boards so that about 3 inches extend past the holes on each end.
11. Mount these boards horizontally across the wall as shown in Figure 10 using #14 x 3" flat head wood screws (not provided). Tighten securely.
12. Remount the template in the center of the two boards as shown in Figure 11. Perform steps 5 through 8 under MOUNTING ON WOOD STUDDED WALLS—16" ON CENTER ON PAGE 4.

V. MOUNTING THE WORK CENTER TO EXPOSED WOODEN WALL STUDS—16" ON CENTER

If your studs are on 16" centers, as shown in Figure 12, follow the instructions for "Mounting the Work Center on Wood Studded Walls—16" on Center" (studs not exposed) on page 4, except skip step #4 because you can easily see the centers of the studs.

VI. MOUNTING THE WORK CENTER TO EXPOSED WOODEN WALL STUDS—OTHER THAN 16" ON CENTER

In this case, follow the instructions for "Mounting the Work Center on Wood Studded Walls—Other than 16" on Center" (studs not exposed) on page 5, except skip #4 because you can easily see the centers of the studs.

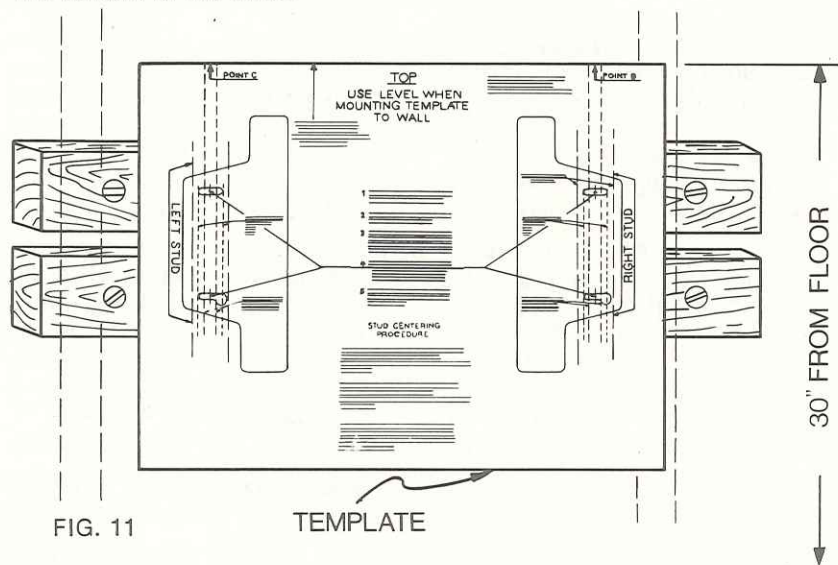


FIG. 11

TEMPLATE

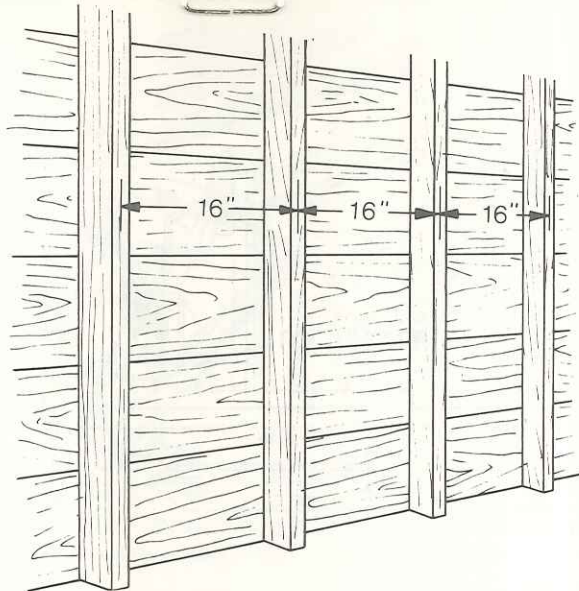


FIG. 12

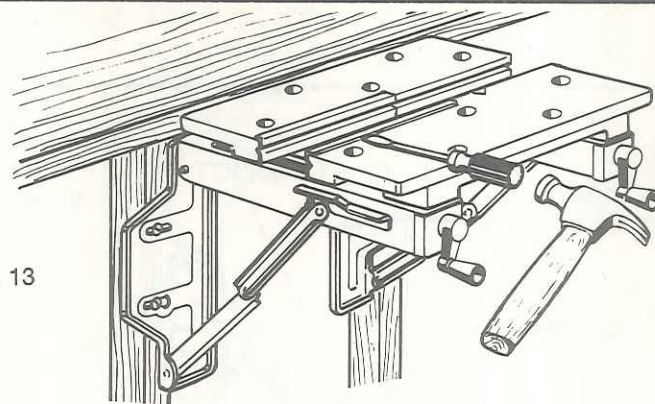


FIG. 13

METAL VISE JAW COVERS

The removable Metal Vise Jaw Covers installed on Work Center at the factory are for the protection of your vise jaws when clamping objects which may damage them. To remove these protective covers, place a screwdriver against the rear edge as shown in figure 13 and tap with a hammer as shown. The covers fit tightly, so you may have to strike them quite hard. They can be replaced any time they may be needed.

USING YOUR WORKMATE®

(Install the vise jaw snap in handles as shown in Figure 14).

To open the WORKMATE® for use, grasp the front jaw (lowest in the folded down position) and swing the unit upward as shown in Figure 15. Holding the WORKMATE® in the full up position, pull down at the knee of one of the side braces until the locking lever drops into place as shown in Figure 16. Repeat this procedure for the other side brace. NEVER ATTEMPT TO USE YOUR WORKMATE® UNLESS BOTH SIDES ARE UP AND LOCKED.

To fold the WORKMATE® away after use, remove any objects that are sitting on it or clamped in it. Hold the unit firmly in the position shown in Figure 17, depress the locking levers on both sides simultaneously. Hold the WORKMATE® firmly because it is now unlocked and will fall away. Lower (DO NOT DROP) the WORKMATE® to the folded (down) position. NOTE: The swivel pegs can remain in place, if desired, whether the WORKMATE® is up or down.

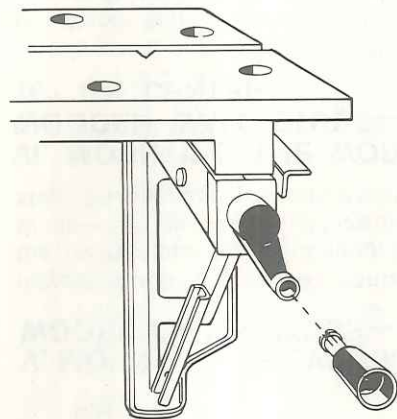


FIG. 14

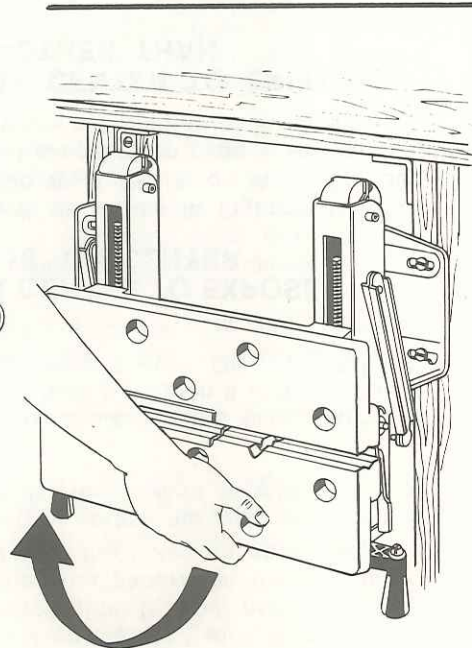


FIG. 15

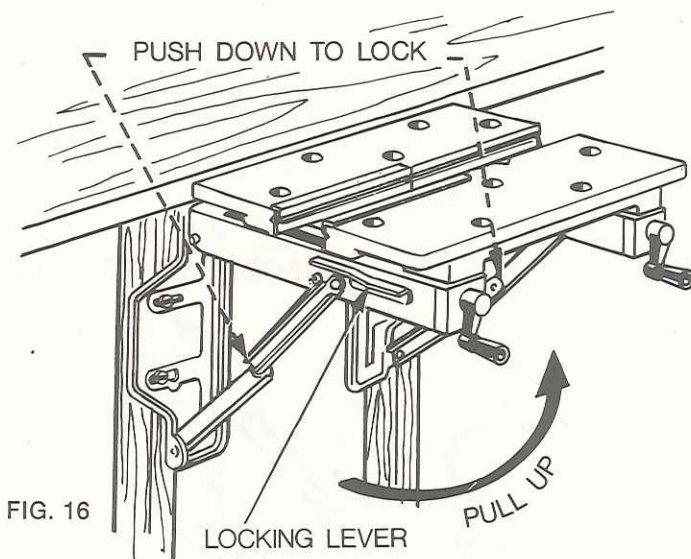


FIG. 16

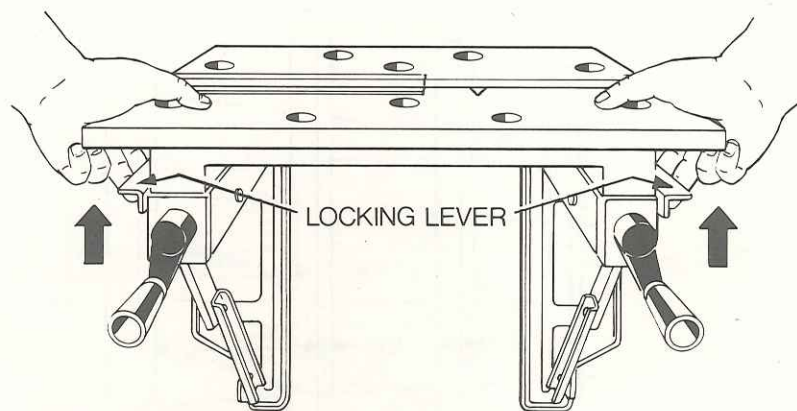
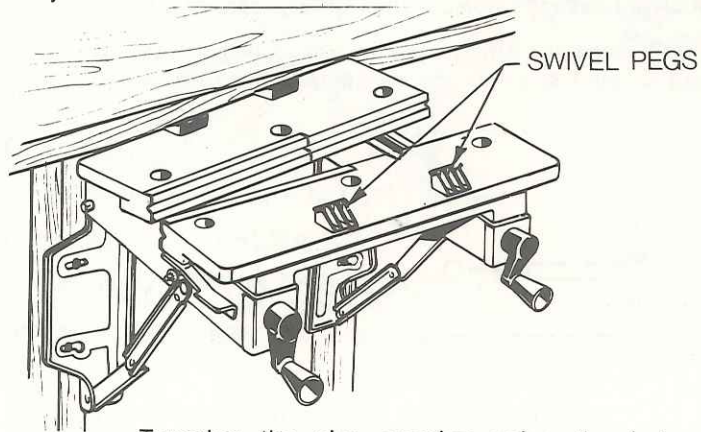


FIG. 17

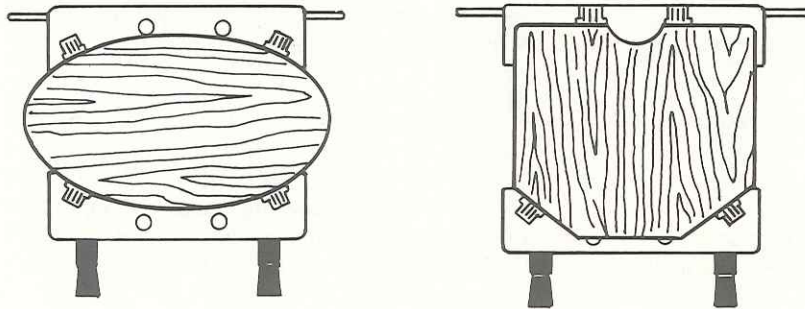
WORKING WITH YOUR WORKMATE® WORK CENTER AND VISE

The heart of the Work Center is in the action of the two parallel Vise Jaws. The Two Vise Handles adjust the jaws to a maximum of 5¼" jaw opening. Because each handle works independently of the other, the opening can be tapered from 0 to 5". Use of the swivel pegs in the appropriate jaw holes extends the vise capacity to 12".

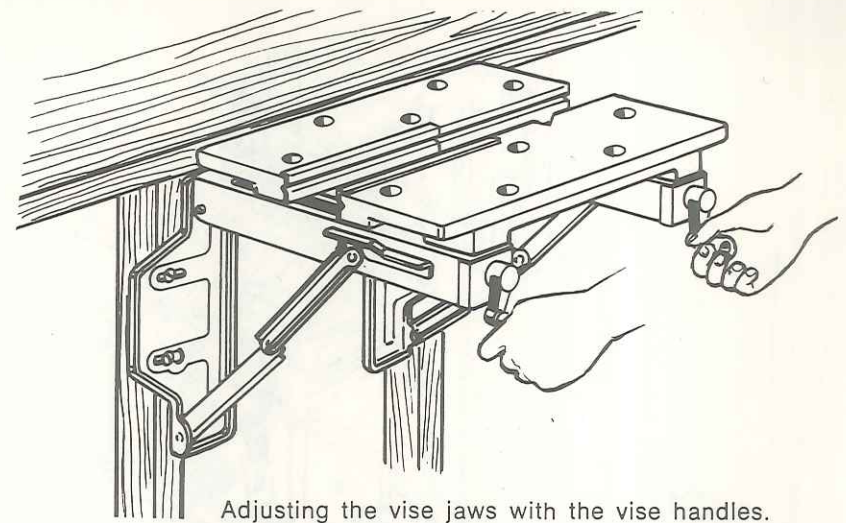
NOTE: In the following illustrations, showing the Work Center in use, the operator's hands remain free to hold tools properly and safely.



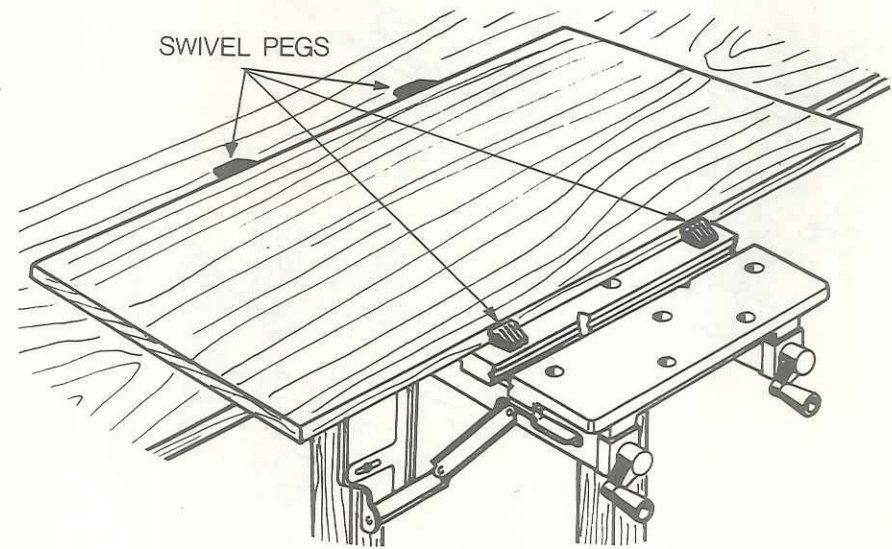
Tapering the vise opening using the independent vise handles.



Curved and irregular shapes can also be held by the Swivel Pegs.



Adjusting the vise jaws with the vise handles.



Utilize the top of your workbench when working on objects larger than the capacity of your vise jaws. Drill two ¾" diameter holes in the top of your workbench and insert Swivel Pegs.

WORKMATE® WORK CENTER: USING POWER EQUIPMENT

Construct individual mounting blocks for your different power tools to save workbench area in your workshop while making your power equipment completely portable.

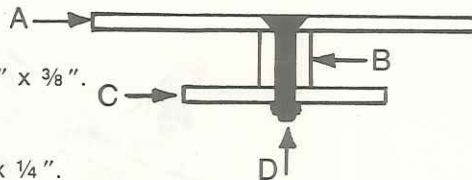
CAUTION:

1. Securely mount tool accessories to mounting board with screws or bolts.
2. For safety, it is recommended that you always wear safety glasses when using electrical tools with the Work Center.

POWER TOOL MOUNTING BOARD

1. Attachments such as the Black & Decker Vertical Drill Stand, may be screwed down to a suitable sized piece of plywood, to the underside of which is attached a block.

SUGGESTED SIZES



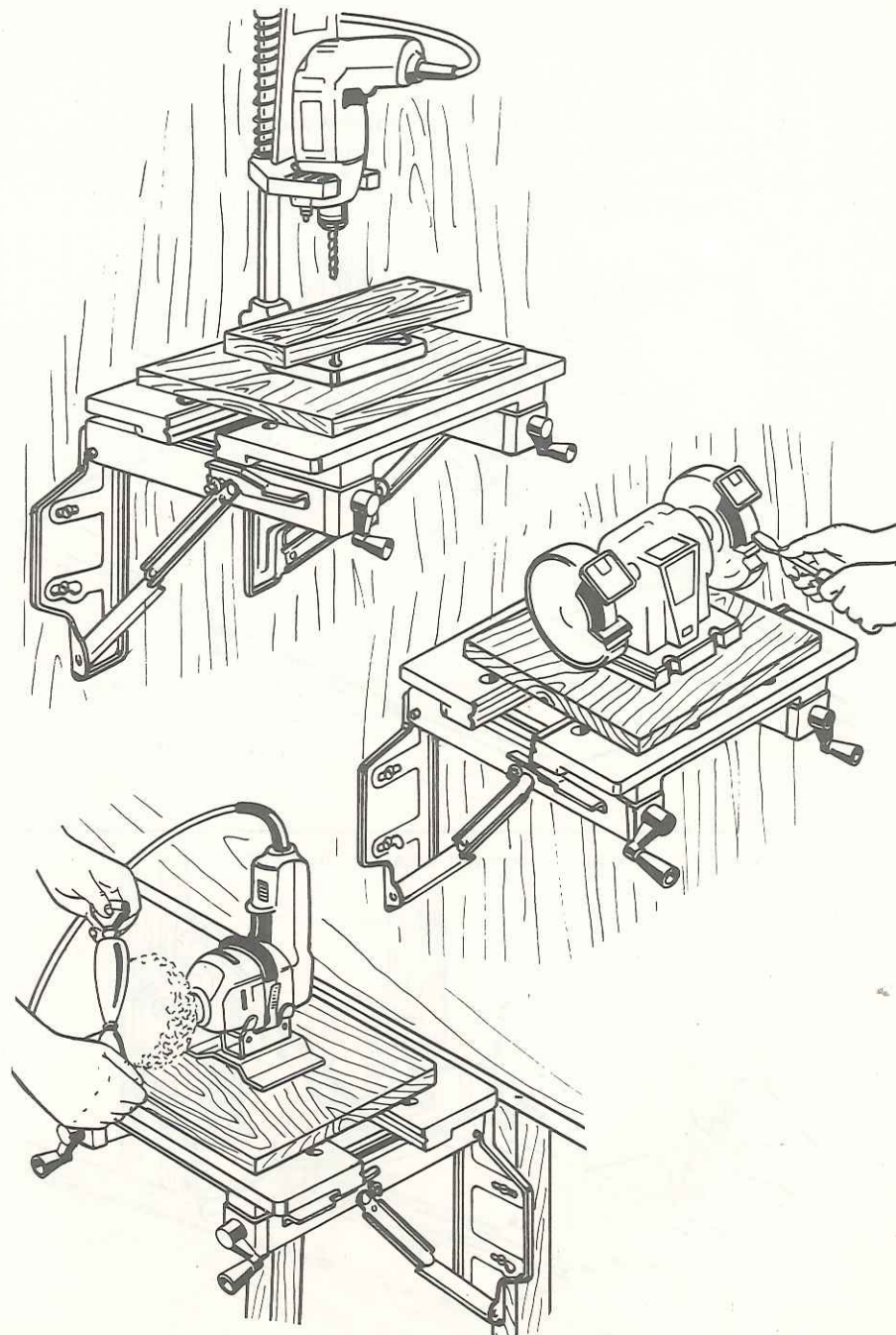
A—Mounting Board 12" x 12" x 3/8".

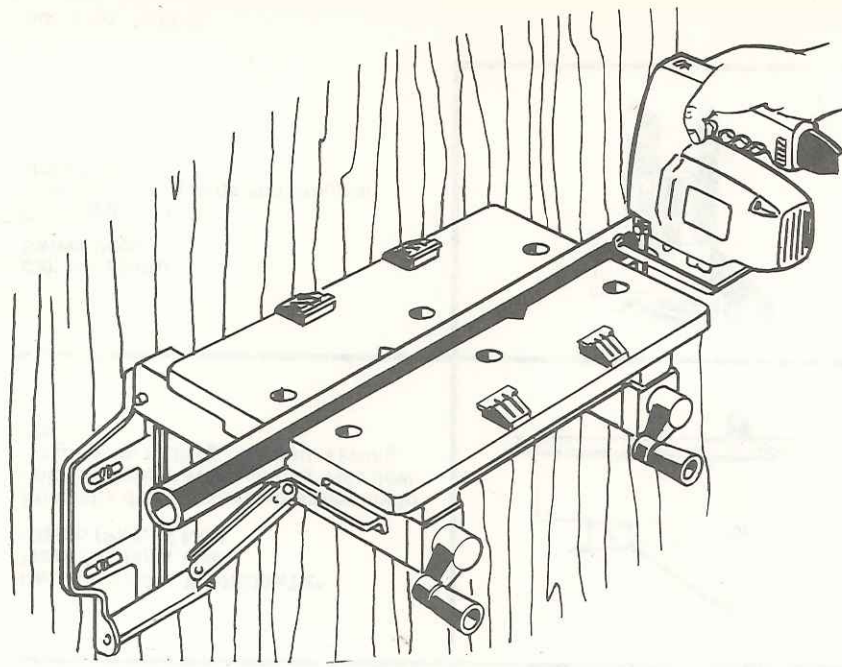
B—Vise Block 2" x 4" x 6".

C—Retaining Board 3" x 3" x 1/4".

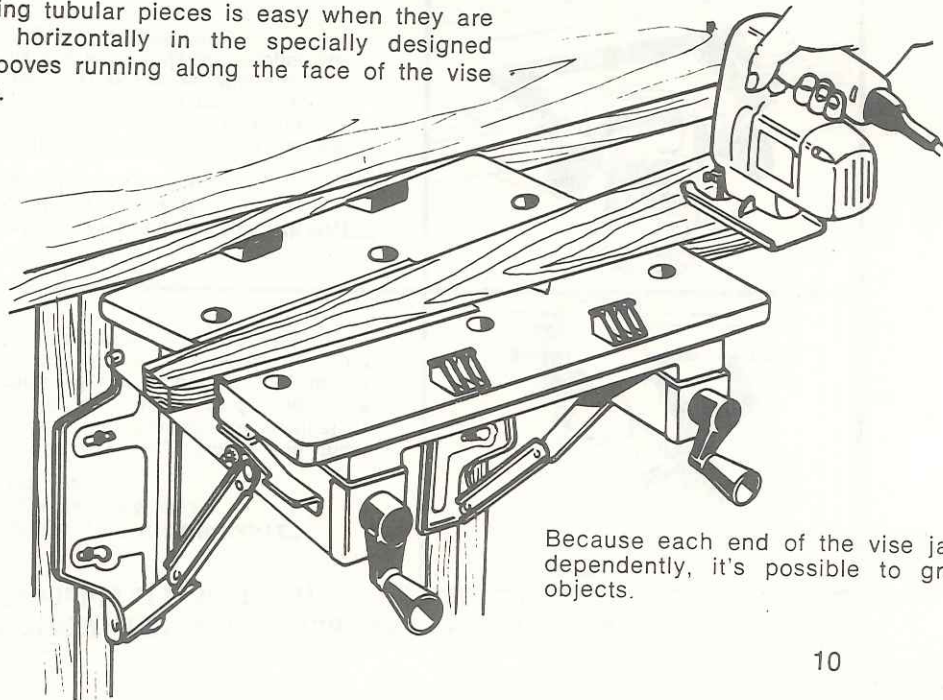
D—Bolt 5".

2. The block on the underside of the board is held in the jaws of the Work Center. The power unit is secure for use.
3. You'll want to use all of your power accessories more often. Buffing, for instance, is easier and more convenient with the WORKMATE® Work Center.
4. Add power equipment you never thought you had room for—grinding is secure with the Work Center as your workbench.

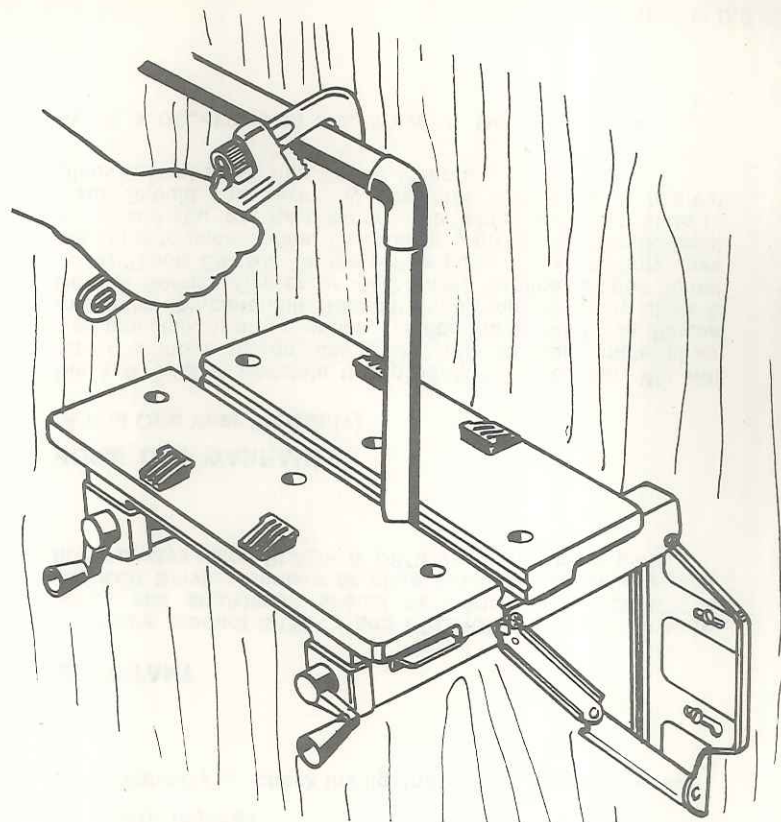




Sawing tubular pieces is easy when they are held horizontally in the specially designed V-grooves running along the face of the vise jaws.



Because each end of the vise jaws work independently, it's possible to grasp tapered objects.



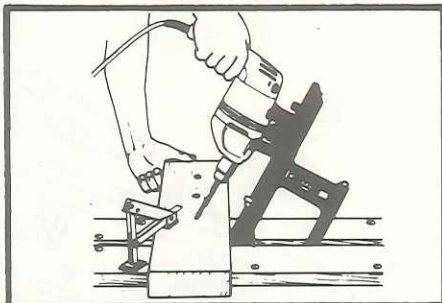
Vertical V-grooves in the face of the vise jaws permit rigid vertical grasping of tubular objects.

NOTE: To use the vertical V-groove in the vise jaws, it is necessary to remove the metal covers from the vise jaws as shown on page 6.

WORKMATE® Work Center and Vise Attachments (Available at Extra Cost)

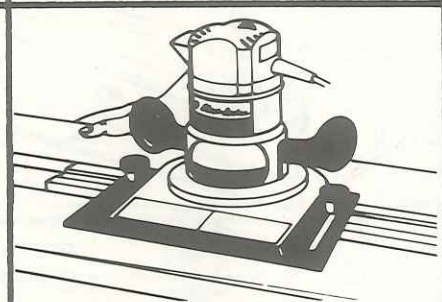
Cat. No. 79-015 WORKMATE® Work Center & Vise Drill Guide

Holds Black & Decker and most other drills securely for vertical or 0° to 90° angular drilling. Use freehand for accurate angles, or horizontally in WORKMATE® to hold drill for buffing, sanding jobs.



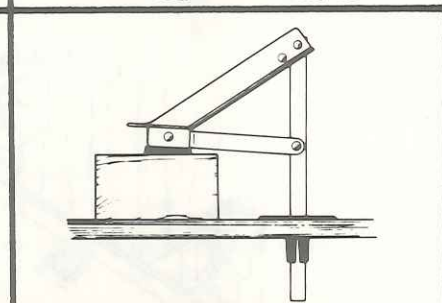
Cat. No. 79-013 Type 2 WORKMATE® Work Center & Vise Router & Shape Guide

Professional Router cuts made easy. Holds Black & Decker and other popular routers securely on Workmate® Work Center table top. Gives solid "hands off" support for all types of router cuts.



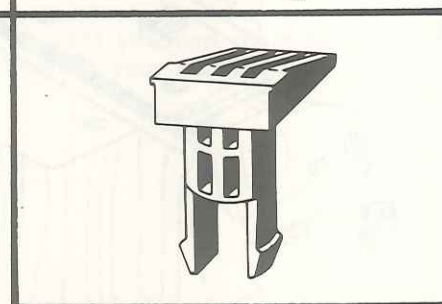
Cat. No. 79-016 WORKMATE® Work Center & Vise Clamp (Pkg. of two)

Specially designed clamp assembly to hold items on a Work Center Vise Jaw for glueing, routing, sanding, sawing, etc.




Cat. No. 79-010 Swivel Pegs

Packaged in pairs
Ideal for holding large and irregular shaped objects.



The accessories listed in this manual are available at extra cost from your local dealer, Black & Decker Service Center, or by writing to: Customer Services, Black & Decker (U.S.) Inc., Towson, Maryland 21204

Black & Decker and  and WORKMATE® are registered trademarks of the Black and Decker Manufacturing Company, Towson, Maryland, U.S.A.

MAINTENANCE TIPS:

1. If binding of vise jaws occurs, cleaning of vise screw threads may be required.
2. Periodically . . . check the tightness of all assembly screws.

IMPORTANT

To assure product SAFETY and RELIABILITY repairs, maintenance and adjustment should be performed by BLACK & DECKER Service Centers or other qualified service organizations, always using BLACK & DECKER replacement parts.

HOME USE WARRANTY (A Full One Year Warranty)

Black & Decker warrants this product for one year. We will repair, without charge, any defect due to faulty material or workmanship, or at our option, replace the product free. Please return the complete unit, transportation prepaid, to any Black & Decker Service Center or Authorized Service Station listed under "Tools Electric" in the yellow pages. This warranty does not apply to accessories. This warranty gives you specific legal rights and you may have other rights which vary from state to state. Should you have any questions, contact your nearest Black & Decker Service Center Manager.

BLACK & DECKER (U.S.) INC., TOWSON, MD. 21204, U.S.A.

79-021 TEMPLATE

BLACK & DECKER (U.S.) INC. TOWSON, MD. 21204 U.S.A.

↑ POINT C

TO
USE LEVEL
MOUNTING
TO V

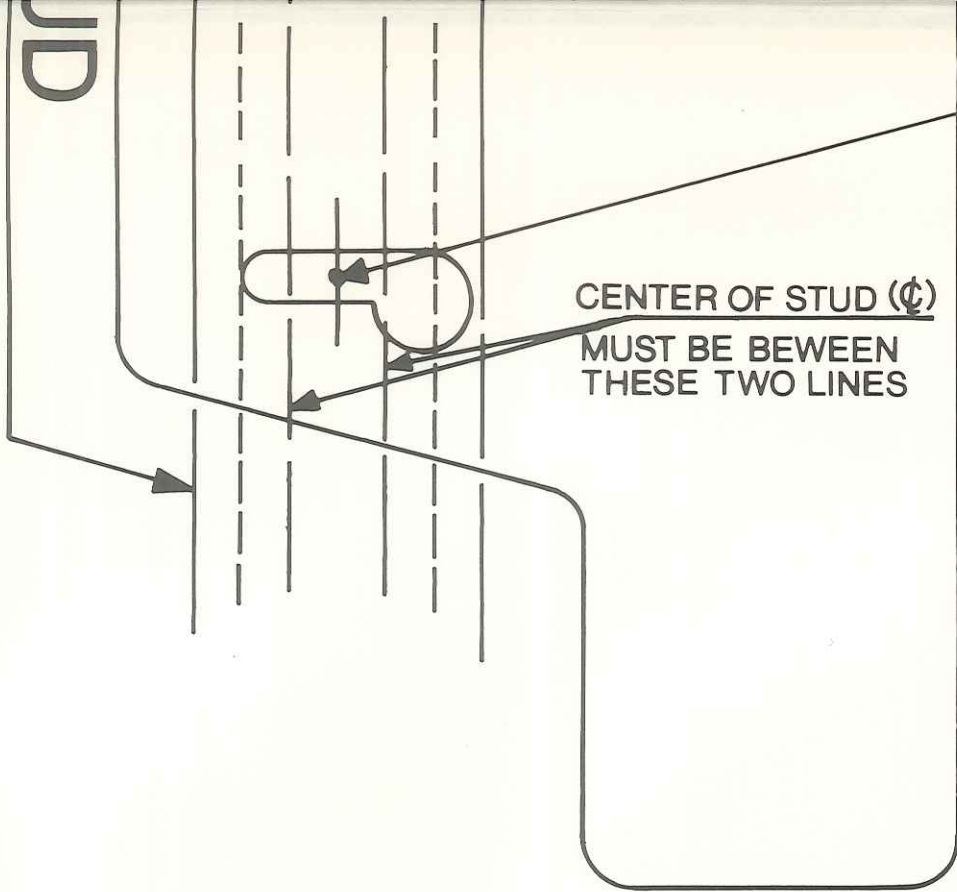
SUGGESTED HEIGHT
FROM FLOOR 30"
EXCEPT WHEN MOUNTING
TO WORKBENCH

LEFT STU

DRILL ASSURANCE
HOLES HERE
1/16" DIA.
1" DEEP

1. CONSULT YOUR
FOR MOUNTING
2. USE THIS TEMP
MOUNTING TO
WORKBENCH.
3. ASSURANCE HO
STUD CENTERING
ONLY IF STUDS
SUCH AS COVER
WALLBOARD.

BRUCK & BECKER (1/2") IAC LOM20W NO 31301 0-27



4. DRILL 3/16" PILE
HERE AFTER LOC
(C) OF STUD AS
BELOW.
5. DRILL 1/4" CLEAR
DEEP IN THE P
DRILLED.

STUD CE PROCE

RIGHT ASSURANCE
(TEMPLATE TOO FAR
MOVE TEMPLATE SL
TRY AGAIN.

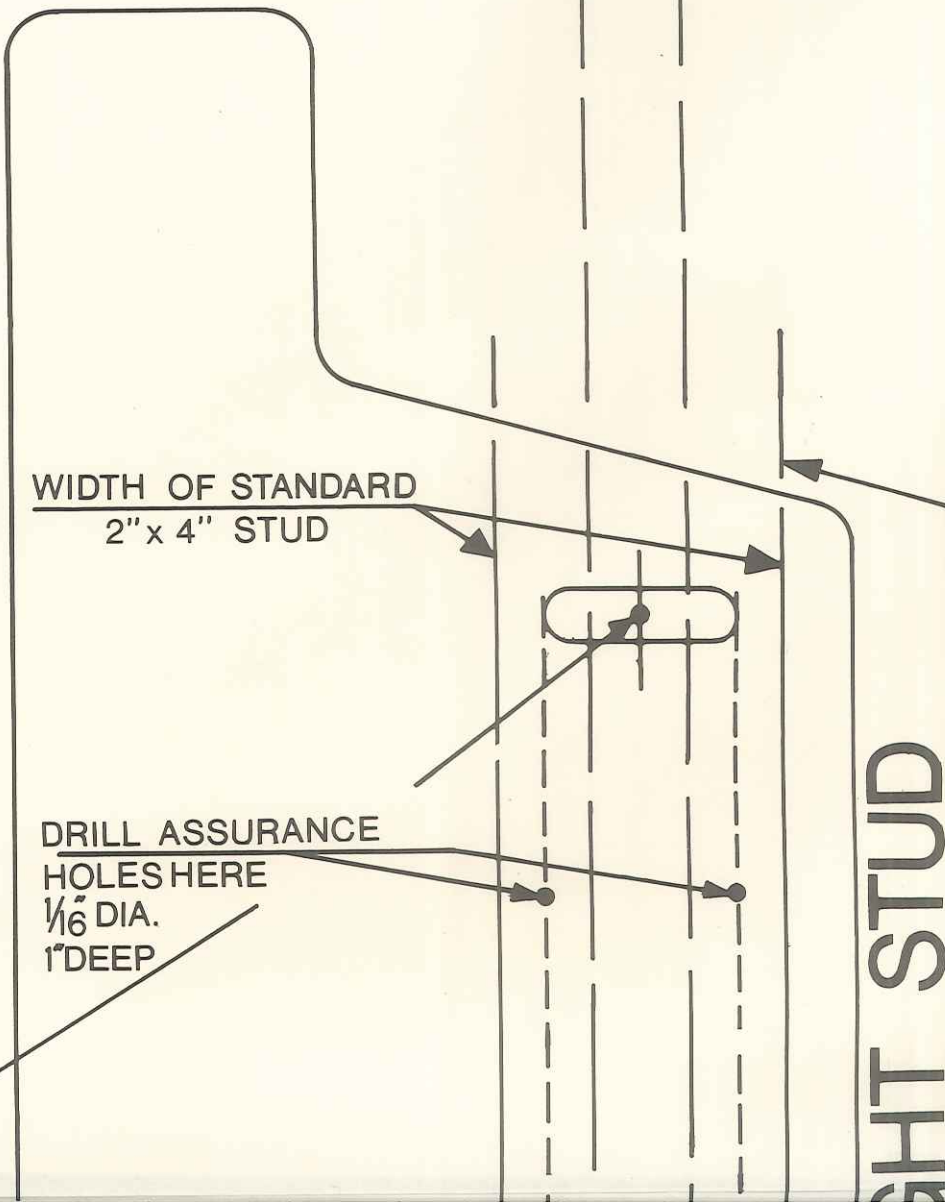
LEFT ASSURANCE H
(TEMPLATE TOO FAR
MOVE TEMPLATE SL
TRY AGAIN.

BOTH ASSURANCE
(TEMPLATE CENTERE
MOUNT WORKMATE®
IN THIS POSITION.

TOP LEVEL WHEN TEMPLATE WALL

TOP EDGE OF TEMPLATE
IS WORKMATE® WORK
SURFACE AFTER MOUNTING

↑ POINT B



OWNER'S MANUAL
DETAILS.

PLATE FOR
WALL OR

LES (TO ASSURE
NG) ARE NEEDED
S ARE NOT VISIBLE
ERED BY

... HOLES 3" DEEP
... LOCATING CENTER
... DESCRIBED

... ARANCE HOLES 3/4"
... PILOT HOLES JUST

... CENTERING ... EDURE

... HOLE MISSES STUD.
... (R TO RIGHT)
... IGHLY TO LEFT AND

... HOLE MISSES STUD.
... (R TO LEFT)
... IGHLY TO RIGHT AND

... HOLES HIT STUD.
... ED PROPERLY)
... WITH TEMPLATE

