

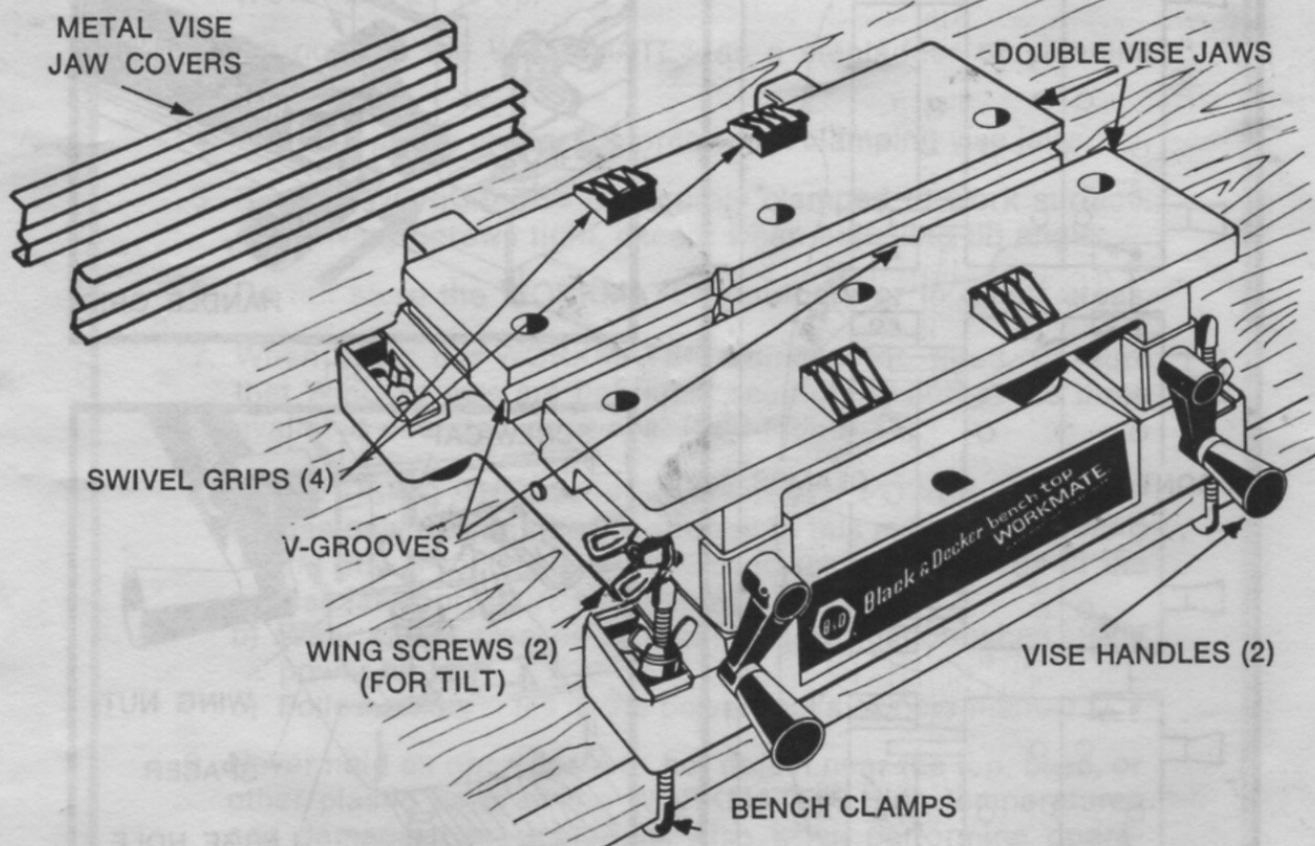


Black & Decker[®]

WORKMATE[®]

Bench Top Work Center and Vise

Tilt Top 16" Model 79-020



- Can be mounted with included clamps on any work surface up to 2½" thick. Suction cups on bottom provide added stability and minimize marring of the work surface.
- 16" Vise Jaws open up to 5¼" wide. Included Metal Vise Jaw Covers can be used to protect the vise jaws when gripping objects with shapes or edges that could damage the jaws.
- Swivel Grips hold irregular shapes and lumber up to 12½" wide, up to 14" diagonally.
- Surface can be tilted to 15°, 30° or 45° for use in craft or hobby work.
- V-grooves in vise jaws hold pipe or tubing in horizontal or vertical positions.
- Can be hung on wall or stored under workbench when not in use.

Please read this manual carefully so that you can take full advantage of the versatility of the WORKMATE[®].

OWNER'S MANUAL

ASSEMBLY (Figure 1)

1. Push Handle Grips into Handle Arms until they snap into position.
2. Push Swivel Grips into any 4 holes in WORKMATE® top.

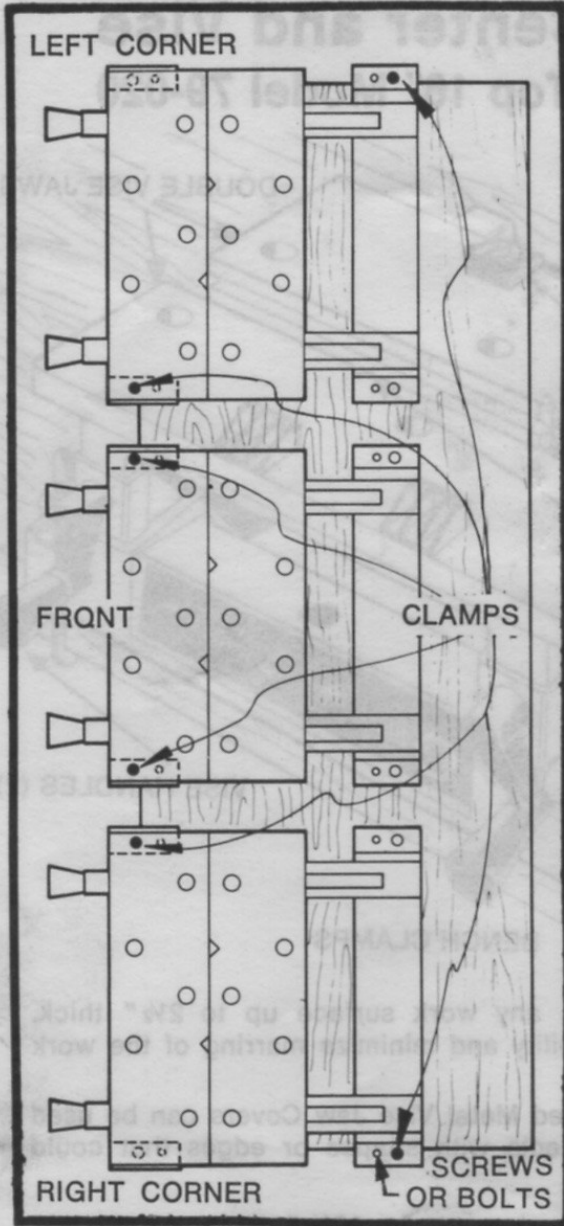


FIG. 2

BENCH MOUNTING

The WORKMATE® may be clamped at any location along the front, or at either corner, of any work surface up to 2½" thick (Figure 2). The two Clamps provided may be loosened to remove the WORKMATE® for storage.

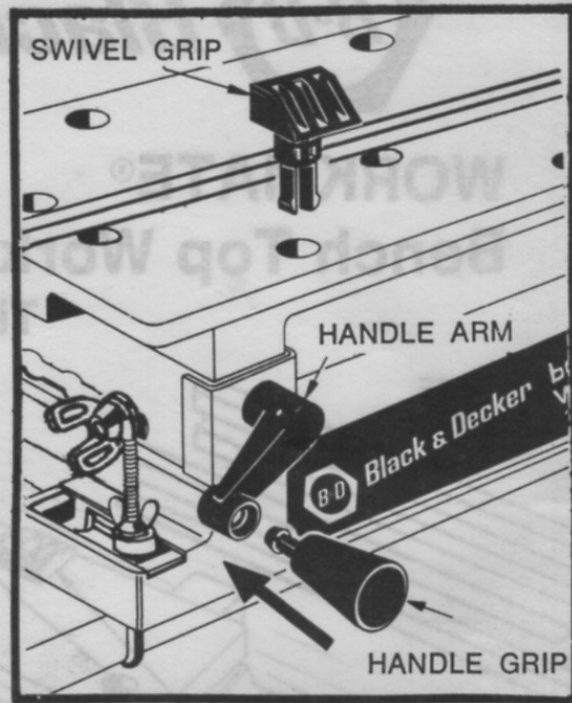


FIG. 1

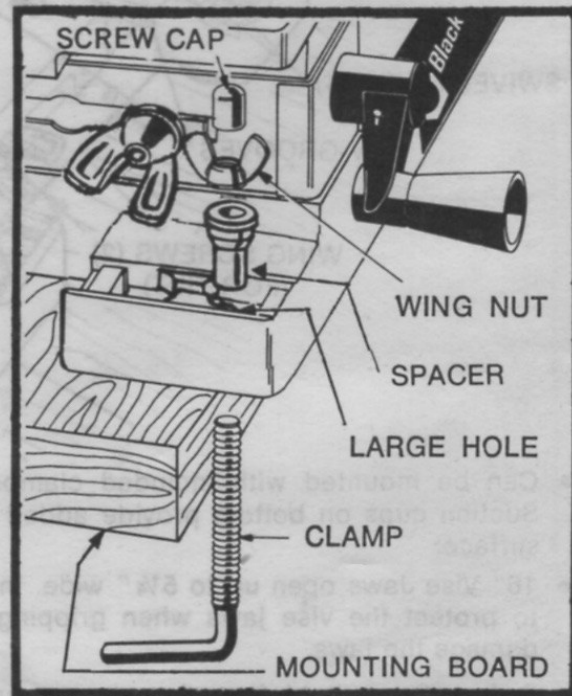


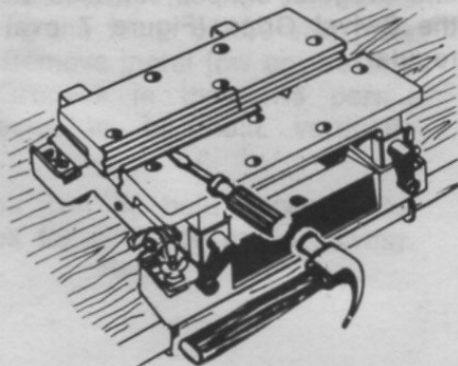
FIG. 3

Assemble the Clamps through larger holes in the Base as shown in Figure 3. Tighten wing nuts firmly.

If you want to permanently mount the WORKMATE® to your work surface, use #12 Wood Screws 2" long or ¼" Bolts through the smaller holes (Figure 2) in each corner of the WORKMATE®.

SAFETY RULES

1. Do not load the WORKMATE® with more than 350 pounds when top surface is horizontal. Do not exceed 40 pounds when surface is tilted.
2. Do not apply an unbalanced load which could cause the WORKMATE® to tip.
3. Do not use the WORKMATE® as a stepladder or standing platform.
4. Avoid applying excessive force when clamping vise jaws.
5. Be sure WORKMATE® is securely clamped to work surface. Keep Wing Screws tight, except when adjusting tilt angle.
6. Do not store the WORKMATE® outdoors or in damp areas.
7. When using the WORKMATE® with the top tilted, be sure that Wing Screws are tightened securely in one of the three available detented positions. (See Figure 17).
8. WHEN USING THE WORKMATE® WITH POWER TOOLS:
 - a) Use only the methods described in this manual for mounting power tools. Never mount power tools directly in the vise jaws; pressure may damage tool.
 - b) Wear safety glasses or other eye protection when using power tools.
 - c) Follow safety rules in the power tool's owners manual.
9. Never hold an open flame or hot object near the top, base, or other plastic parts of the WORKMATE®. High temperatures can damage these materials. Also when performing operations such as soldering, remember that heat can travel rapidly through the metal to the WORKMATE®. The use of the included Metal Vise Jaw Covers is recommended for such operations.



METAL VISE JAW COVERS:

The removeable Metal Vise Jaw Covers installed on your 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 3A 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.

WORKING with the WORKMATE®

The prime feature of the WORKMATE® is its ability to hold a great variety of differently shaped pieces in a secure, convenient working position. Both hands remain free to hold tools properly and safely.

The two handles adjust the vise jaws to a maximum $5\frac{1}{4}$ " jaw opening. Because each handle operates independently, the opening can be tapered from 0" to 4". This allows you to hold tapered work pieces (Figure 4).

Avoid applying excessive force when tightening the vise jaws. An even pressure is important. Tighten both vise handles so that they exert approximately equal pressure on the work.

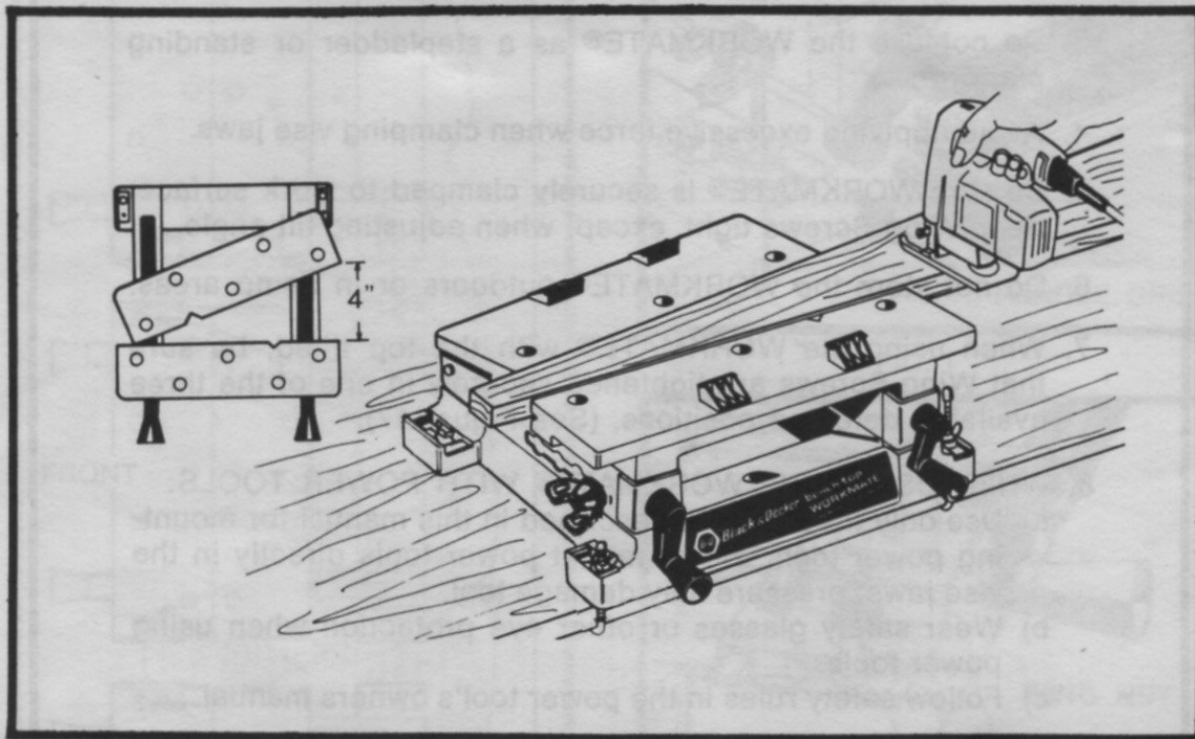


FIG. 4

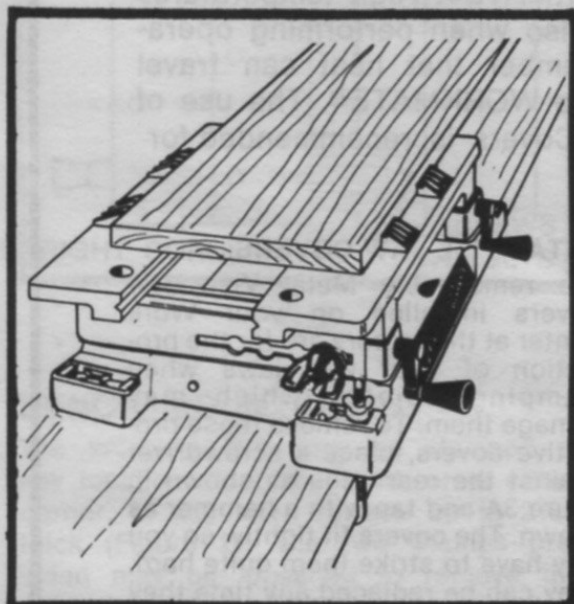


FIG. 5

Using the Swivel Grips can increase the capacity of the vise to $12\frac{1}{2}$ " wide (Figure 5). When the work is held diagonally, the capacity becomes 14" (Figure 6). Curved and Irregular shapes can also be held by the Swivel Grips (Figure 7 oval and irregular).

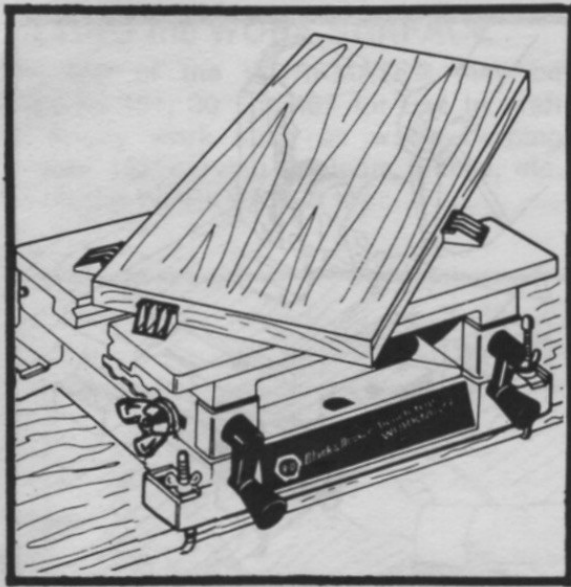


FIG. 6

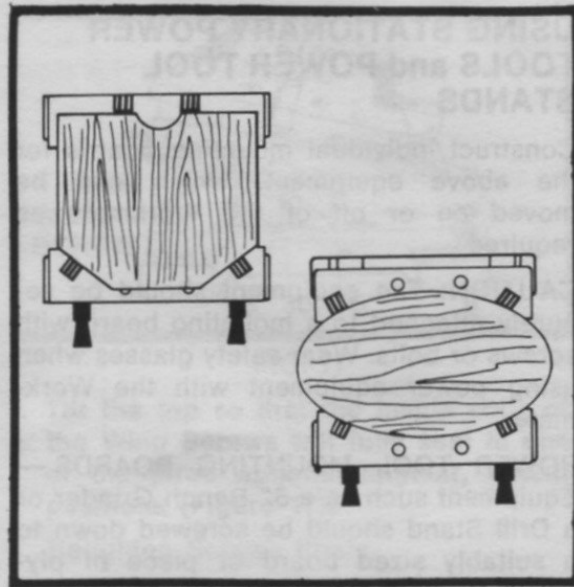


FIG. 7

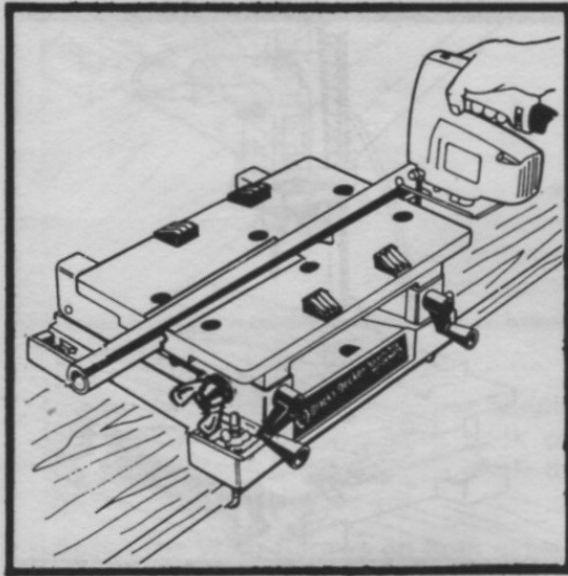


FIG. 8

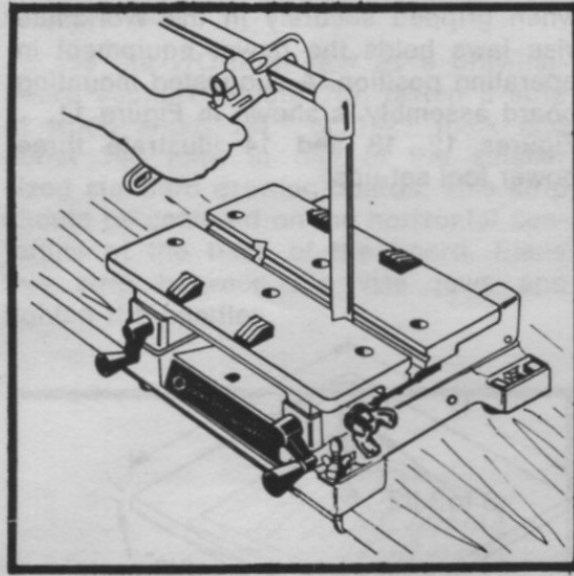


FIG. 9

NOT USE OF METAL VISE JAW COVERS IN FIG. 8.

Sawing tubular pieces is easy when they are held horizontally in the V-Grooves running along the faces of the vise jaws (Figure 8). Remove metal jaw covers and vertical V-Grooves in the jaws permit tubular pieces to be held vertically (Figure 9).

A mitre box can be held between the Swivel Grips for accurate angle sawing. (Figure 10).

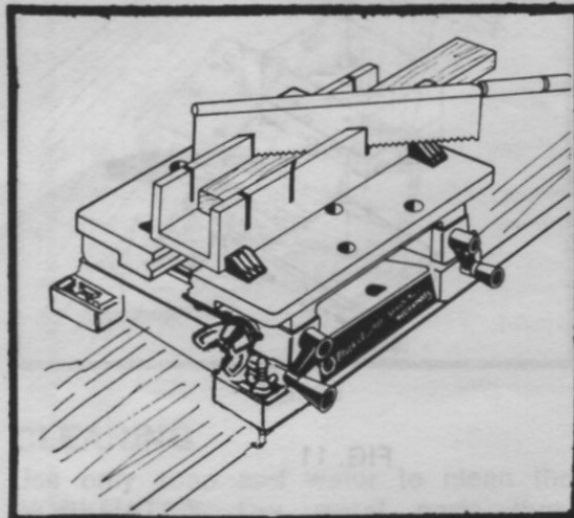


FIG. 10

USING STATIONARY POWER TOOLS and POWER TOOL STANDS

Construct individual mounting boards for the above equipment, which can be moved on or off of the Workmate as required.

CAUTION: The equipment should be securely attached to a mounting board with screws or bolts. Wear safety glasses when using power equipment with the Workmate.

POWER TOOL MOUNTING BOARDS —

Equipment such as a 5" Bench Grinder or a Drill Stand should be screwed down to a suitably sized board or piece of plywood, which has a block about 6" long attached to the underside. The block when gripped securely in the Workmate vise jaws holds the power equipment in operating position. A suggested mounting board assembly is shown in Figure 11.

Figures 12, 13 and 14 illustrate three power tool set-ups.

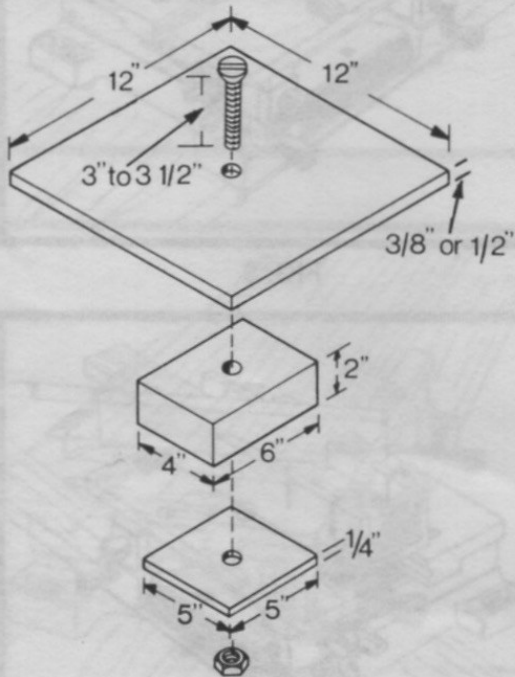


FIG. 11

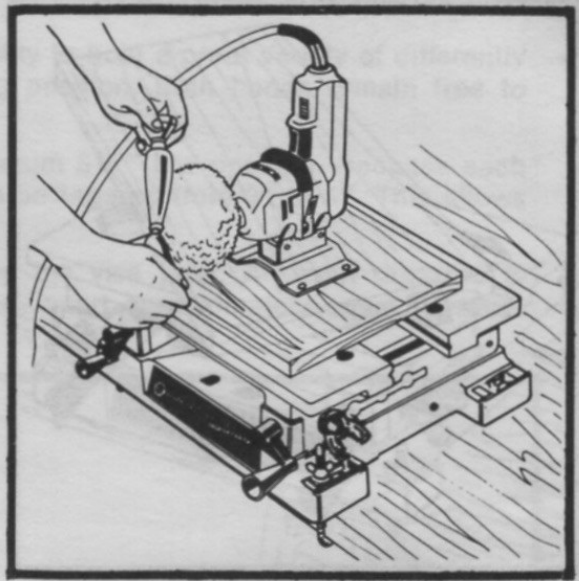


FIG. 12

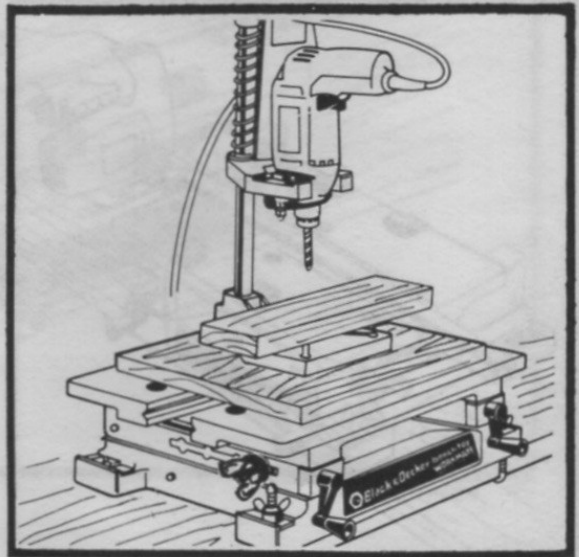


FIG. 13

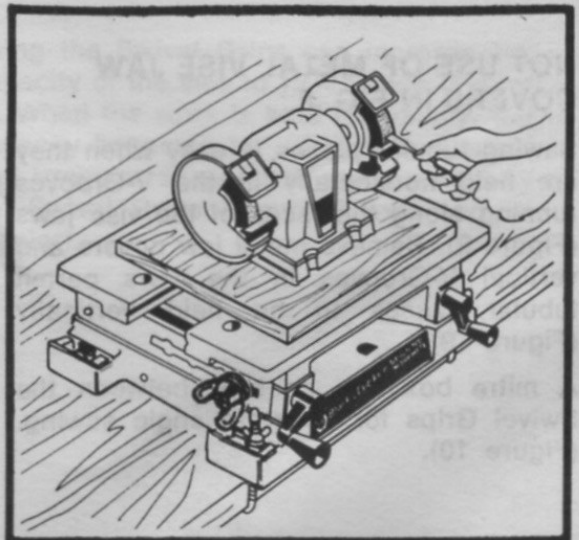


FIG. 14

TILTING the WORK SURFACE

The top of the WORKMATE® may be tilted to 15°, 30° or 45° for use in craft or hobby work such as wood burning (Figure 15), carving linoleum blocks, etc. To tilt the WORKMATE® top:

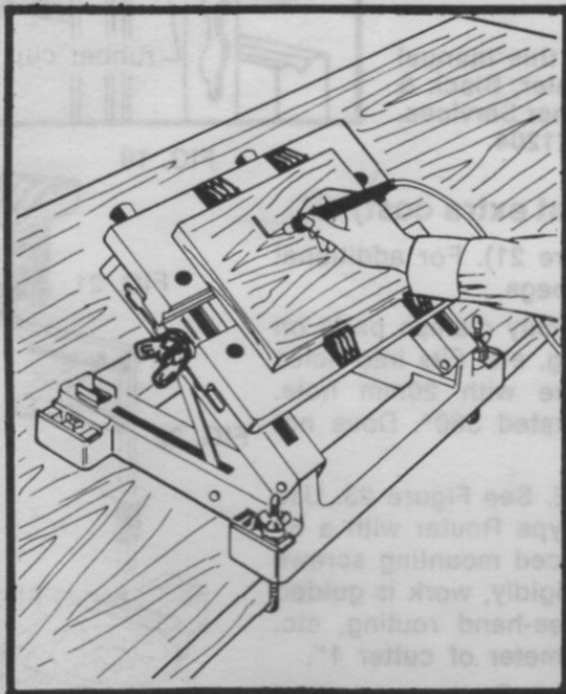


FIG. 15

1. Clamp the WORKMATE® to the bench with the vise handles at the back of the WORKMATE® (facing the back of the work bench) (Figure 16).
2. Loosen the Wing Screws on both sides of the WORKMATE®.

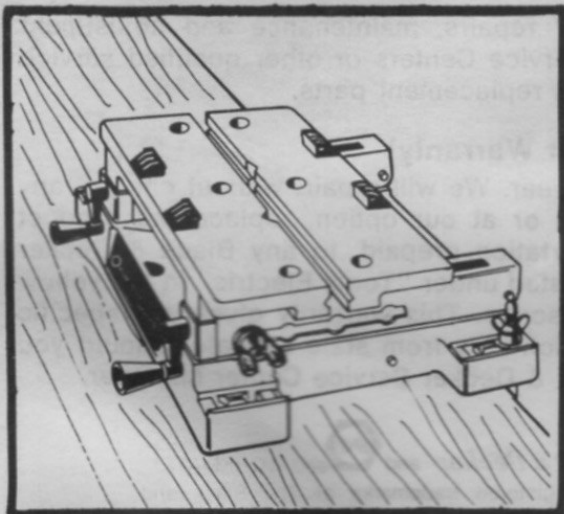


FIG. 16

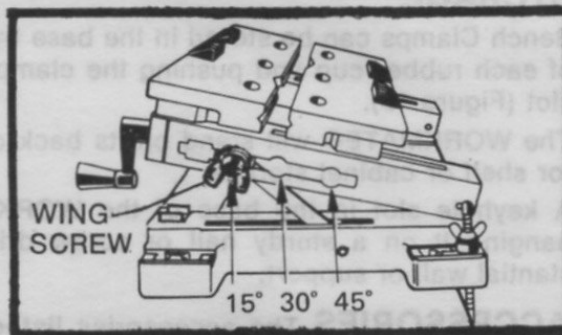


FIG. 17

3. Tilt the top so that the inside ends of the Wing Screws will fully seat in one of the three optional angular, detent positions (Figure 17).
4. Retighten Screws firmly.

CAUTION: Do not load the WORKMATE® with more than 40 pounds when it is in a tilted position.

To use the WORKMATE® as a drawing-board support (Figure 18), fasten a strip of wood about 1½" or 1¾" thick and about 16" long to one of the smaller sized standard drawing-boards. This strip should be centered on the horizontal centerline of the back of the board. Place this strip between the vise jaws and tighten the handles.

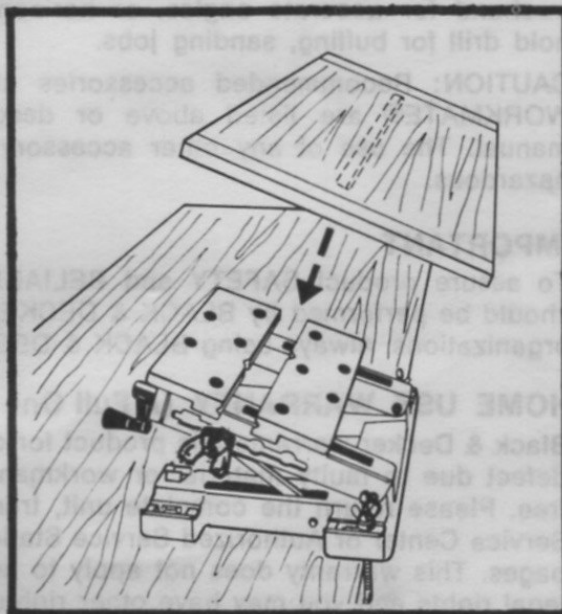


FIG. 18

CLEANING

Use only soap and water to clean the WORKMATE®. Dry metal parts thoroughly.

STORAGE

Bench Clamps can be stored in the base by lifting the edge of each rubber cup and pushing the clamp into its storage slot (Figure 19).

The WORKMATE® will stand on its back or on either side for shelf or cabinet storage.

A keyhole slot in the base of the WORKMATE® permits hanging it on a sturdy nail or screw driven into a substantial wall or support.

ACCESSORIES 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.

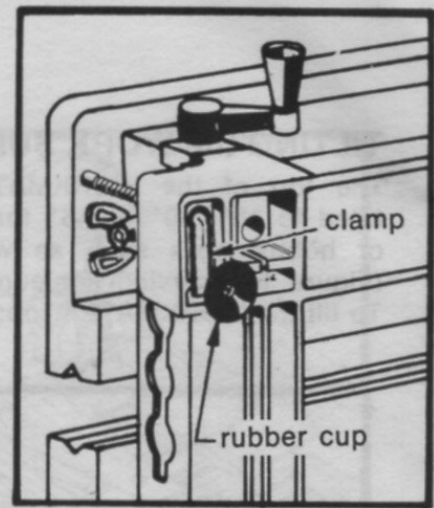


FIG. 19

WORKMATE® Attachments (available at extra cost)

Cat. No. 79-010 Pkg. of 2 Swivel Pegs (Figure 21). For additional versatility in holding objects, or for replacing pegs.

Cat. No. 79-016 CLAMPS. See Figure 22. Quickly clamps parts on a horizontal surface for gluing, sawing, sanding, etc. Fits into holes on WORKMATE® or any other work surface with 20mm hole. Clamps material up to 3/4" thick, can be rotated 360°. Does not mar work surface.

Cat. No. 79-013 ROUTER AND SHAPE GUIDE. See Figure 23. Use with all B&D Routers or any other consumer type Router with a 6" or less diameter base plate and 3 equally spaced mounting screws not larger than 3/16" diameter. Holds Router rigidly, work is guided by fence. Use for routing edges, beading, free-hand routing, etc. Maximum wood thickness 1 1/2", maximum diameter of cutter 1".

Cat. No. 79-015 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.

CAUTION: Recommended accessories and attachments for your WORKMATE® are listed above or described elsewhere in this manual. The use of any other accessory or attachment might be hazardous.


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.



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