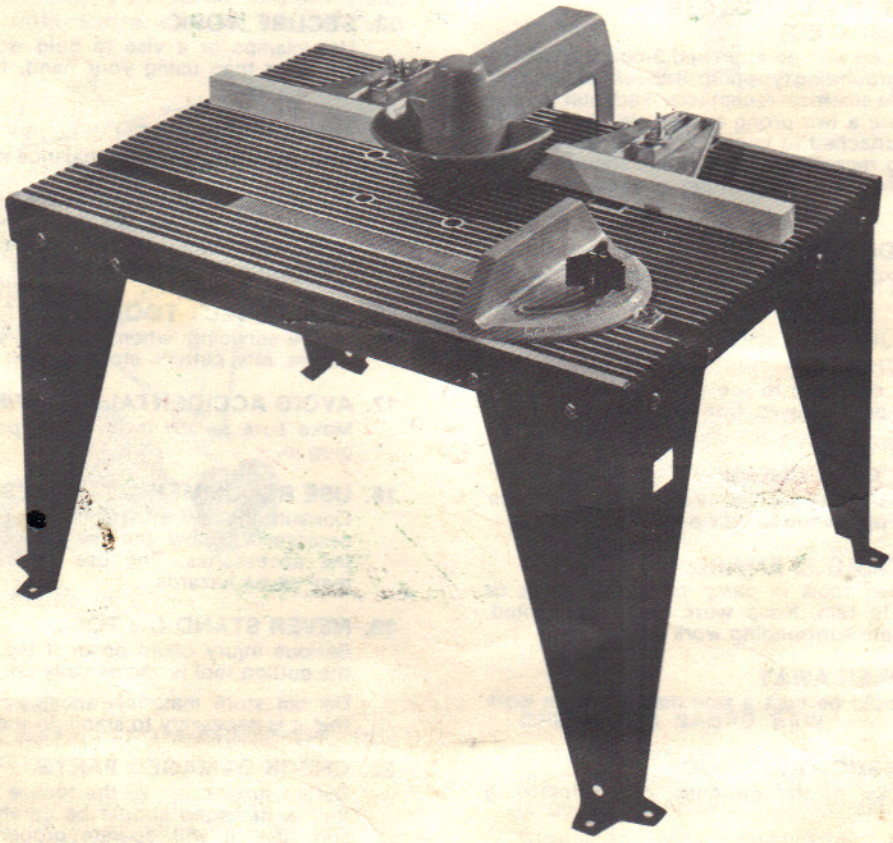
Sears CRAFTSMAN.

# INSTRUCTIONS FOR ASSEMBLY AND OPERATION OF YOUR

# ROUTER / SABRE SAW TABLE

## MODEL NO. 171.25444



**Sold by SEARS, ROEBUCK AND CO., Chicago, IL 60684 U.S.A.**

MADE IN U. S. A.

Part No. 49L-2

Printed in U.S.A. 10-79

## general safety instructions for router and sabre saw table

1. **ALWAYS USE EYE PROTECTION.** The operation of any power tool can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety goggles before commencing power tool operation. Safety goggles are available at Sears retail or catalog stores.

2. **KEEP HANDS CLEAR OF BITS, SAW BLADES AND WORKING AREA.**

3. **KEEP ROUTER AND SABRE SAW CLEAN.**
   After every use, clean saw dust off the Router and Sabre Saw.

4. **ALWAYS FEED AGAINST THE ROTATION OF THE CUTTER WHEN ROUTING ON THE ROUTER TABLE.**

5. **NEVER PUT YOUR FINGERS UNDER THE GUARD.**

6. **ALWAYS LOOK UNDER THE TABLE AT THE SWITCH WHEN TURNING THE ROUTER OR SABER OFF AND TOUCH NOTHING BUT THE SWITCH.**

**NOTE:** Motors used on wood-working tools are particularly susceptible to the accumulation of sawdust and wood chips and should be blown out or "vacuumed" frequently to prevent interference with normal motor ventilation.

# GENERAL SAFETY INSTRUCTIONS FOR POWER TOOLS

1. **KNOW YOUR POWER TOOL**
   Read the owner's manual carefully. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

2. **GROUND ALL TOOLS (UNLESS DOUBLE INSULATED)**
   If tool is equipped with an approved 3-conductor cord and a 3-prong grounding type plug, it should be plugged into a three hole electrical receptacle. If adapter is used to accommodate a two-prong receptacle, the adapter wire must be attached to known ground, (usually the screw securing receptacle cover plate). Never remove third prong. Never connect green ground wire to a terminal.

3. **KEEP GUARDS IN PLACE**
   in working order, and in proper adjustment and alignment.

4. **REMOVE ADJUSTING KEYS AND WRENCHES**
   Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.

5. **KEEP WORK AREA CLEAN**
   Cluttered areas and benches invite accidents. Floor must not be slippery due to wax or sawdust.

6. **AVOID DANGEROUS ENVIRONMENT**
   Don't use power tools in damp or wet locations or expose them to rain. Keep work area well lighted. Provide adequate surrounding work space.

7. **KEEP CHILDREN AWAY**
   All visitors should be kept a safe distance from work area.

8. **MAKE WORKSHOP KID-PROOF**
   —with padlocks, master switches, or by removing starter keys.

9. **DON'T FORCE TOOL**
   It will do the job better and safer at the rate for which it was designed.

10. **USE RIGHT TOOL**
    Don't force tool or attachment to do a job it was not designed for.

11. **WEAR RIGHT APPAREL**
    Do not wear loose clothing, gloves, neckties or jewelry (rings, wrist watches) to get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair. Roll long sleeves above the elbow.

12. **USE SAFETY GOGGLES (Head Protection)**
    Wear Safety goggles (must comply with ANS Z87.1) at all times. Also, use face or dust mask if cutting operation is dusty, and ear protectors (plugs or muffs) during extended periods of operation.

13. **SECURE WORK**
    Use clamps or a vise to hold work when practical. It's safer than using your hand, frees both hands to operate tool.

14. **DON'T OVERREACH**
    Keep proper footing and balance at all times.

15. **MAINTAIN TOOLS WITH CARE**
    Keeps tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

16. **DISCONNECT TOOLS**
    before servicing; when changing accessories such as blades, bits, cutters, etc.

17. **AVOID ACCIDENTAL STARTING**
    Make sure switch is in "OFF" position before plugging in.

18. **USE RECOMMENDED ACCESSORIES**
    Consult the owner's manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.

19. **NEVER STAND ON TOOL**
    Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.

    Do not store materials above or near the tool such that it is necessary to stand on the tool to reach them.

20. **CHECK DAMAGED PARTS**
    Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

21. **DIRECTION OF FEED**
    Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

22. **NEVER LEAVE TOOL RUNNING UNATTENDED**
    Turn power off. Don't leave tool until it comes to a complete stop.

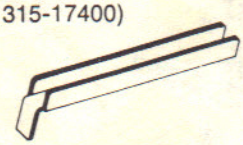
# packing list

The bag contains parts which you must use. Please check the contents in the bag with this list to be sure all parts are there.

(3) #10-32 x 1" Long flat head Mach. Screw

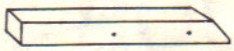
(3) #10-32 x 3/8" Long flat head Mach. Screws (used to mount Router Mod. No. 315-17390 & 315-17400)

(3) Clamp



(3) #10-32 Mach. Screw Nut

(2) Wood Fence Face



(18) #10-32 Nut

(18) #10-32 x 5/8" long Pan head Mach. Screw

(1) Spreader Tube

(2) 3/16" I.D. x 1/2" O.D. Washer

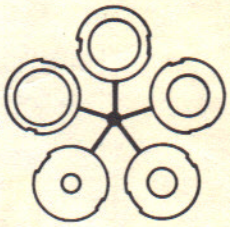
(2) 1/4"-20 x 1 3/4" Long Finished Hex Bolt

(2) 1/4" I.D. x 3/4" O.D. Washer

(2) 1/4"-20 Wing Nut

(1) Pivot Shaft

(5) Table Inserts



(4) #10 Wood Screw

## ASSEMBLY OF TABLE

Assemble legs to table as shown in Figure (1). Turn table upside down. Place legs in corner of table. Place #10-32 x 5/8" long screw thru holes in table and legs. Screw nut on #10-32 x 5/8" long screw to finger tight. Repeat above procedures until all screws, nuts, and legs are in place. Turn table right side up and tighten all screws and nuts with screwdriver and 3/8" wrench or pliers.

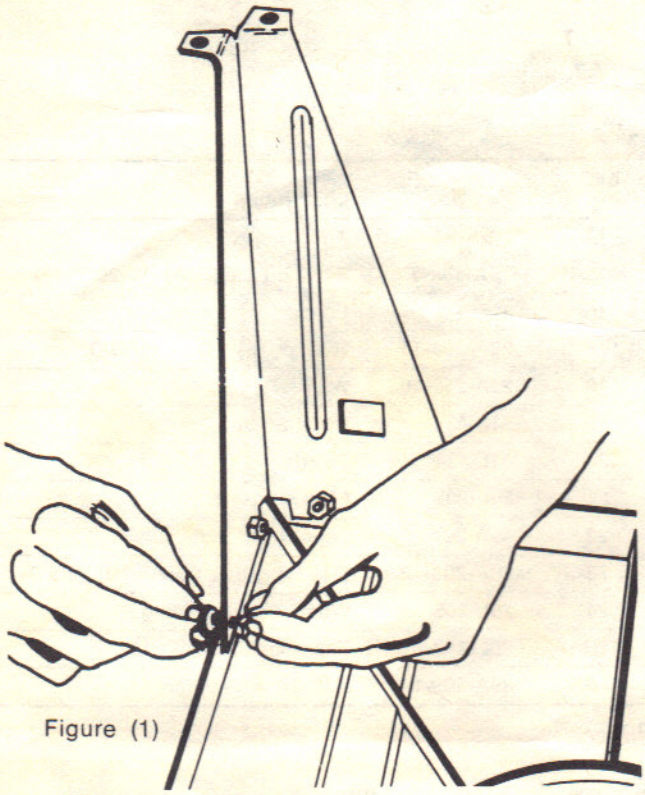


Figure (1)

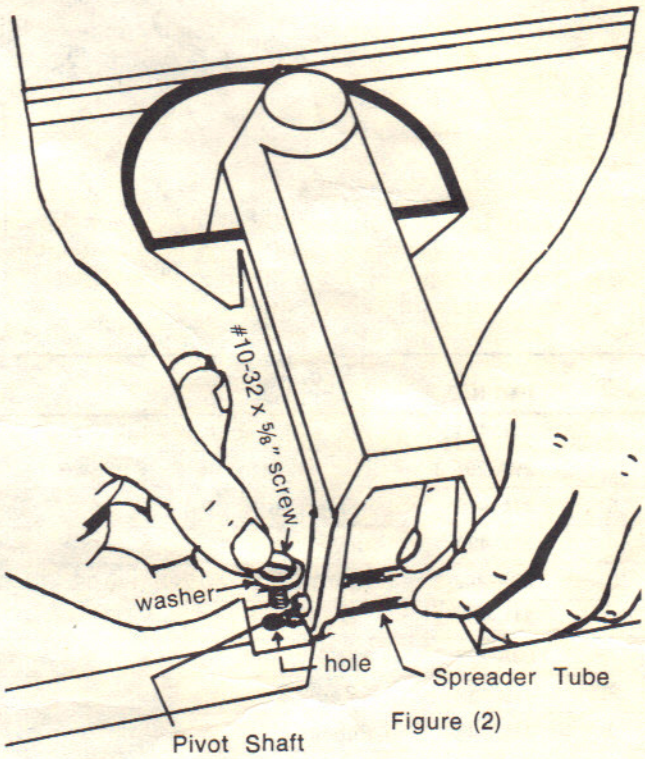



Figure (2)

## FENCE ASSEMBLY TO TABLE

Assemble fence to table, as shown in Figure (3) Place 1/4"-20 x 1 3/4" long hex bolt thru hole in table so hex head fits in hexagon recess under table. Bolt will extend thru slot in fence. Hold finger over bolt head to prevent falling out. Place washer over bolt. Screw wing nut on bolt. Repeat above operation for other fence.

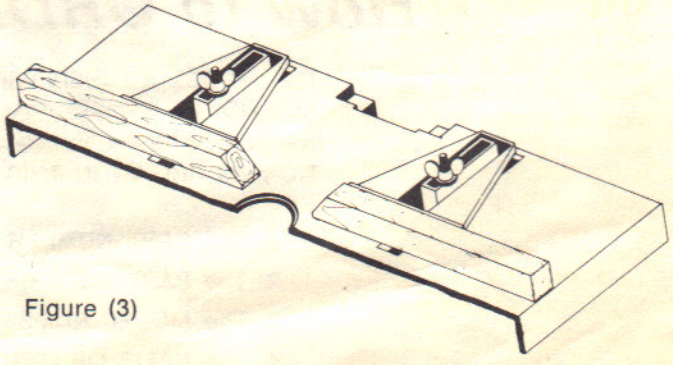


Figure (3)

## ASSEMBLY OF GUARD

Assemble Guard to table as shown in Figure (2). Place Spreader Tube between legs of guard and line up holes in the guard legs with the hole through the tube. Slide shaft into Guard and tube through hole until shaft overhangs guard equal distance on both sides. Lower shaft into slot on table. Place #10-32 x 5/8" long screws through washers and hole. Screw nuts on screw and tighten. Pivot Guard back and forth to see that it swings freely.

## FENCE ALIGNMENT

A.) Tighten wing nut of left hand fence. Measure distance from each end of wood fence facing "C" to edge of miter bar slot "E" as shown in Figure (4). If both distances are the same, the fence is parallel to miter bar slot. If the distance from this slot to the fence facing is not the same at each end of the wood, you must put a small cardboard or wood spacer between the wood and metal part of the fence at the end which is further from the miter bar slot. This will space the wood fence facing out to be parallel with the miter bar slot.

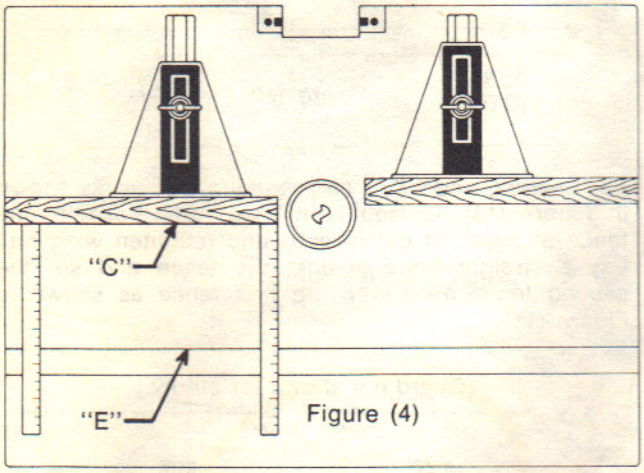


Figure (4)

B.) Lay scale against left wood fence facing as shown in Figure (5). Adjust right hand fence until it touches Scale. Tighten wing nut. If right hand fence is parallel to left hand fence, it is also parallel to the miter bar slot. If not, you must put a small cardboard or wood spacer between the wood and metal part of the fence, at the end which is further from the miter bar slot. This will space the wooden fence facing out to be parallel with the miter bar slot as done on the left hand fence.

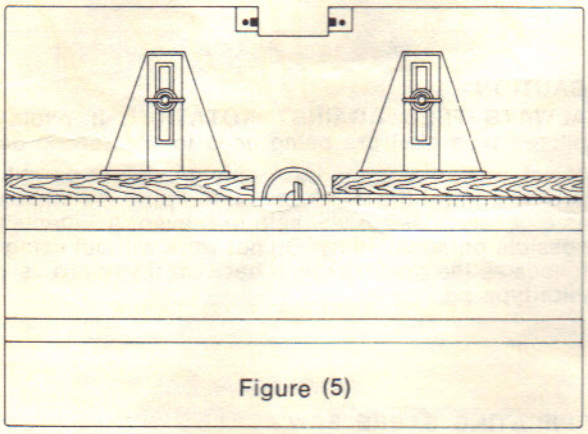


Figure (5)

## ATTACHMENT ROUTER TO TABLE

A.) To assemble routers (with 3 equally spaced base holes) to table, as shown in Figure (6): Remove "Sub Base" or "Base Plate" from router. Turn table on its side as shown in Figure (9). Hold router in one hand and place within ring "D". Still holding router in one hand, place #10-32 x 1" long screw through hole in table. Shift router position until hole in table lines up with hole in router base. Screw the #10-32 x 1" long flat head screw in router base. Repeat procedure until all 3 #10-32 x 1" long flat head screws are in place. Tighten all screws securely with screwdriver.

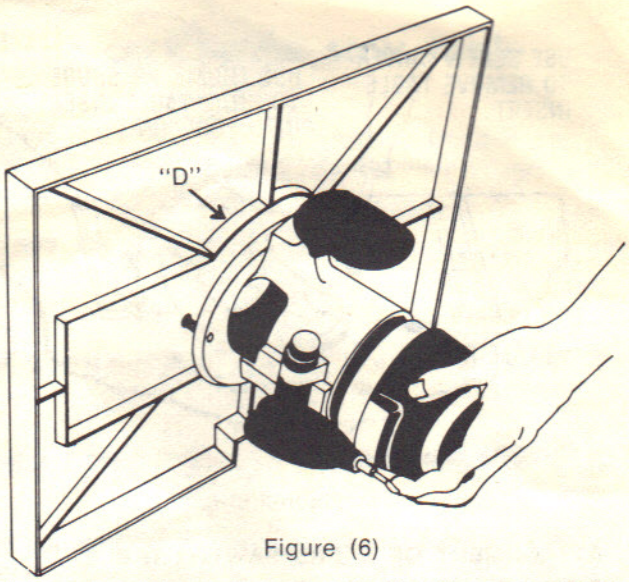


Figure (6)

B.) To assemble small routers (with other base hole patterns, such as router #9 1735) to table, as shown in Figure (7), turn table on side and insert #10-32 x 1" long screw through hole in table and slot in clamp. Screw on #10-32 machine screw nut, so flats of nut fit within sides of clamp. Run screw down nut partially. Be sure you allow room to slide Router under clamp. Repeat above operations until all 3 clamps are in position. Slide clamps out of way. Pick up Router and position within ring "D". (If router housing interferes with ring "D", cut a spacer out of ¼" plywood, approximately the same dimensions as the router base, with a 2" diameter hole in the center. Place spacer between router base and table.)Slide clamp over base of router. Tighten until snug, but allow router to slide under clamp. Repeat until all clamps are in position. Align router until router bit is centered in table hole. Tighten screws securely until router is secure from movement.

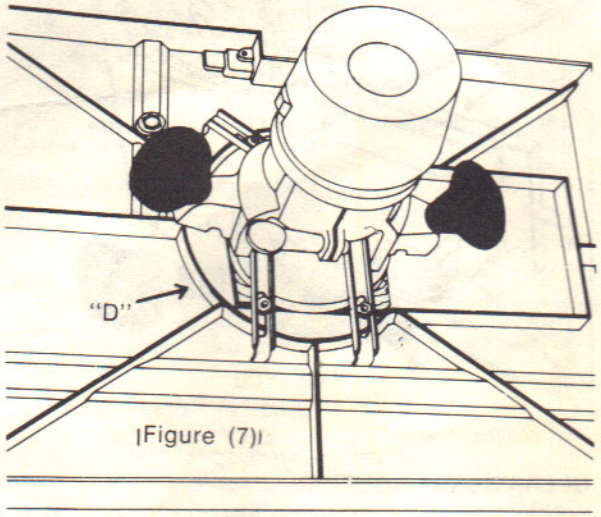


Figure (7)

## SELECTING AND INSTALLING TABLE INSERTS

With the desired bit in the router, select a table insert which has a center hole slightly larger than the diameter of the router bit.

**NOTE:** For bits larger than approximately 1⅜" diameter, do not use any insert.

The table inserts were designed to be snapped into the router table. Slide the large tang under the edge of the hole in the router table as shown in Fig. (8). Using your thumb, press down on the insert until the smaller tang snaps into position. To remove the insert, place the point of a screw driver into the slot (with the smaller tang), and pry the insert out of the router table.

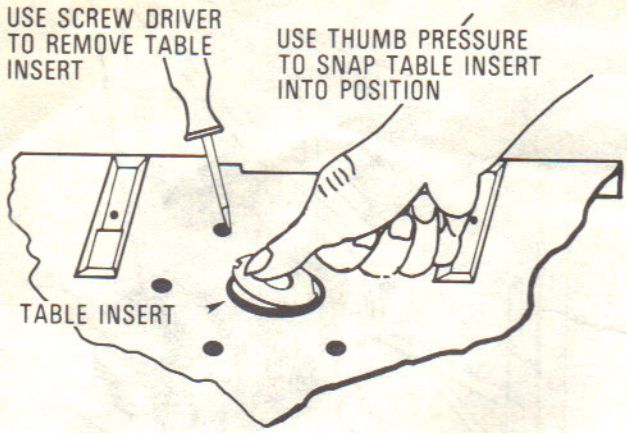



Figure (8)

### ATTACHMENT OF SABRE SAW TO TABLE

Assemble sabre saw to table as shown in Figure (9). Turn table on side. Insert #10-32 x 1" long screw thru hole in table, and slot in clamp. Screw on #10-32 machine screw nut so flats of nut fit within sides of clamp. Run screw down nut partially. Be sure you allow room to slide sabre saw under clamp. Repeat above operation until all 3 clamps are in position. Slide clamp out of the way. Pick up sabre saw and position within Rectangle "E". Slide clamp over base of sabre saw. Tighten until snug, but allow sabre saw to slide under clamp. Repeat until all clamps are in position. Position sabre saw until saw blade is centered in insert hole. Tighten all screws until sabre saw is secure from movement.

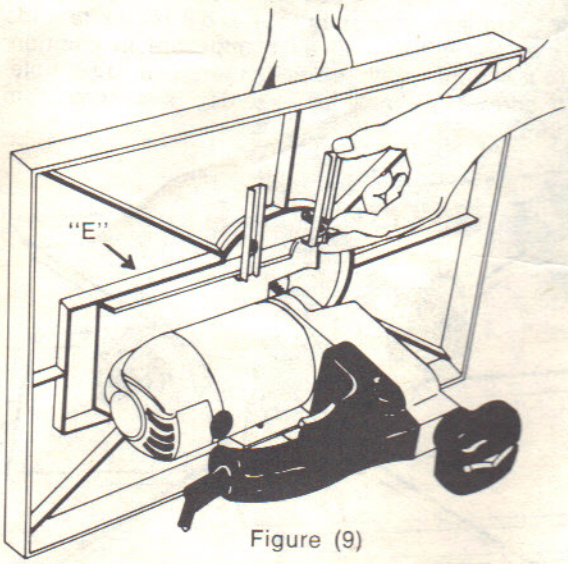



Figure (9)

### OPERATION — ROUTING

WHEN ROUTING, ALWAYS FEED AGAINST THE ROTATION OF THE CUTTER

To use router as a jointer, set up as shown in Figure (10) Loosen wing nut of left fence. Lay scale parallel with wood fence facing. Slide fence and scale until scale touches outside diameter of router bit, as shown in Figure (10). Tighten wing nut of left hand fence.

For depth of cut, loosen wing nut on right fence. Measure from straight edge to wood fence facing the amount of material you want to remove. Slide fence into position, and retighten wing nut on right hand fence. Feed from right to left. BE SURE THAT GUARD IS IN POSITION COVERING THE ROUTER BIT BEFORE TURNING ROUTER ON.

(Guard not shown for clarity.)

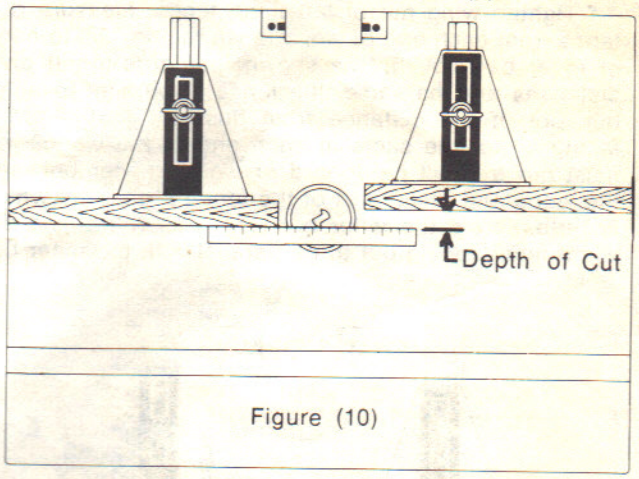



Figure (10)

For beading and other edge cutting, set up as shown in Figure (13). Loosen both wing nuts. Position one fence at depth of cut desired and retighten wing nut. Lay a straight edge against the fence and set the second fence even with the first fence as shown in Figure (11).

(Guard not shown for clarity.)

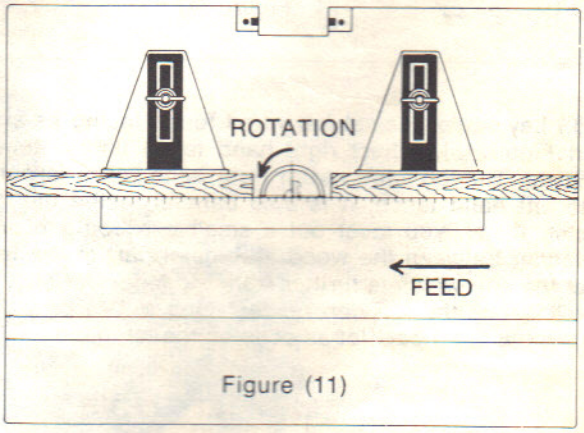



Figure (11)

### CAUTION

**ALWAYS FEED AGAINST ROTATION.** If pilots (or piloted type bits) are being used to control the depth of cut, move the fence back only enough to permit the pilot to control the depth of cut. Keeping the fences up as close as possible will help to prevent accidents and possible personal injury. Do not work without using the fences as the guide, or as a back-up if you are using a pilot type bit.

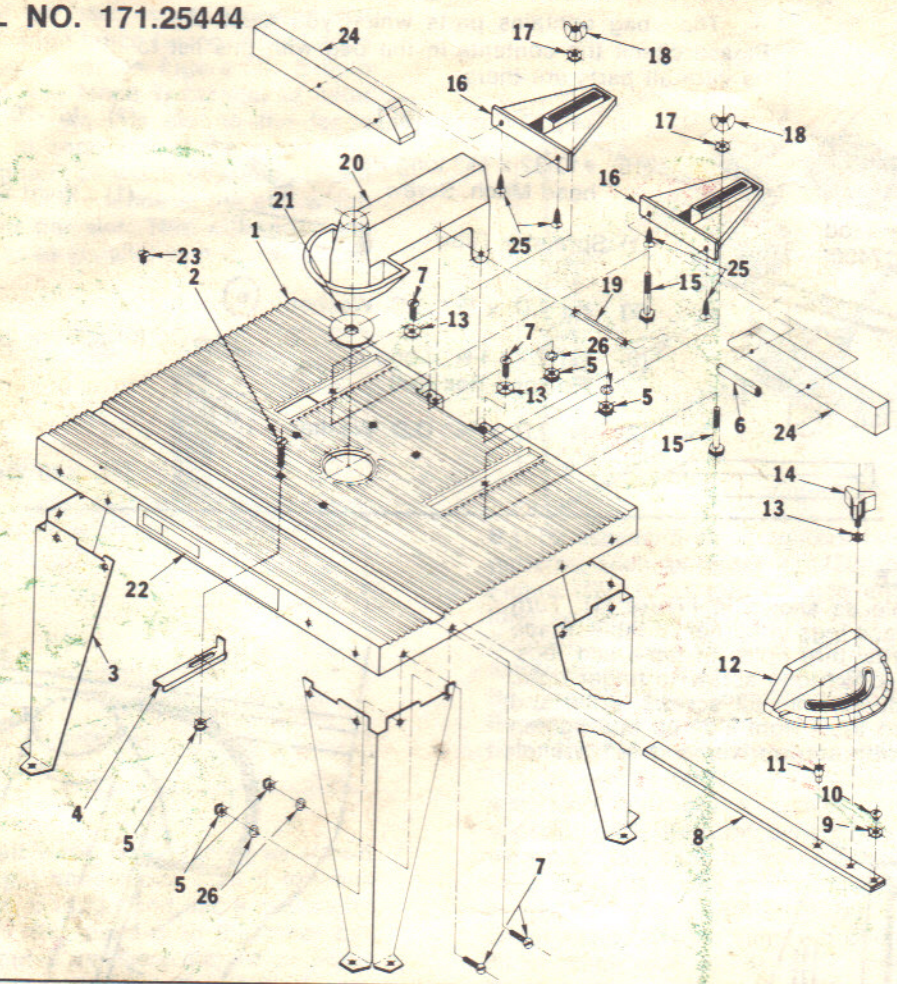
### OPERATING SABRE SAW

With the desired blade in the sabre saw, use one of the table inserts, which has a center hole slightly larger than the width of the sabre blade.

WHEN SAWING, HOLD WORK PIECE FIRMLY DOWN ON TABLE. DO NOT LET WORK PIECE BOUNCE UP AND DOWN.

In order to follow a line or to saw curves, it is necessary to lay the guard back so the cutting edge of the saw blade and the line being followed can be seen. Use extreme care to keep hands and fingers away from the blade. Always lay the guard back into proper position immediately after completing a sawing operation which requires the guard to be raised out of a protective position.

# PARTS LIST FOR CRAFTSMAN ROUTER AND SABRE SAW TABLE MODEL NO. 171.25444




| Key No. | Part No. | Description | Quan. | Key No. | Part No. | Description | Quan. |
|---|---|---|---|---|---|---|---|
| 1 | 31L-431 | Router & Sabre Saw Table Top | 1 | 14 | 29L-184 | Knob | 1 |
| *2 | 29A-298-3 | Flat Hd. Mch. Screw #10-32 x 1" | 3 | *15 | 29A-489-3 | Finished Hex Bolt ¼-20 x 1¾ | 2 |
| 3 | 31L-429 | Table Leg | 4 | 16 | 31L-432 | Fence | 2 |
| 4 | 31L-430 | Clamp | 3 | *17 | 29A-306-14 | Washer 9/32 I.D. x ¾ O.D. | 2 |
| *5 | 29A-242-2 | Hex Mch. Screw Nut #10-32 | 21 | *18 | 29A-252-10 | Wing Nut | 2 |
| 6 | 31L-534 | Spreader | 1 | 19 | 31L-435 | Pivot Shaft | 1 |
| *7 | 29A-264-7 | Pan Hd. Mch. Screw #10-32 x ⅝ | 18 | 20 | 31L-434 | Guard | 1 |
| 8 | 31L-439 | Miter Bar | 1 | 21 | 29L-202 | Plastic Insert | 5 |
| 9 | 31L-438 | Pointer | 1 | 22 | 45A-207 | Label (Self Adhesive) | 1 |
| *10 | 29A-264-8 | Pan Hd. Mch. Screw #10-24 x 5/16 | 1 | *23 | 29A-298-13 | Flat Hd. Mch. Screw (10-32 x ⅜) | 3 |
| 11 | 29L-183 | Grooved Pin 3/16 dia. x ⅝ Type D | 1 | 24 | 29L-205 | Wood Fence Facing | 2 |
| 12 | 31L-433 | Protractor Head | 1 | *25 | 29L-242-1 | Tapping Screw #10-½") | 4 |
| *13 | 29A-306-15 | Washer 3/16 I.D. x ½ O.D. | 3 | *26 | 29A-509-1 | #10 Lock Washer | 18 |

This sheet is intended for instruction and repair parts and is not a packing slip.

*Hardware item — may be purchased locally.

# How to ORDER Repair Parts

THE MODEL NUMBER WILL BE FOUND ON LABEL (SELF ADHESIVE) KEY NO. 22.

WHEN CORRESPONDING, ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST.

1. The PART NUMBER
2. The PART DESCRIPTION
3. The MODEL NUMBER 171.25444
4. The NAME OF ITEM — ROUTER AND SABRE SAW TABLE