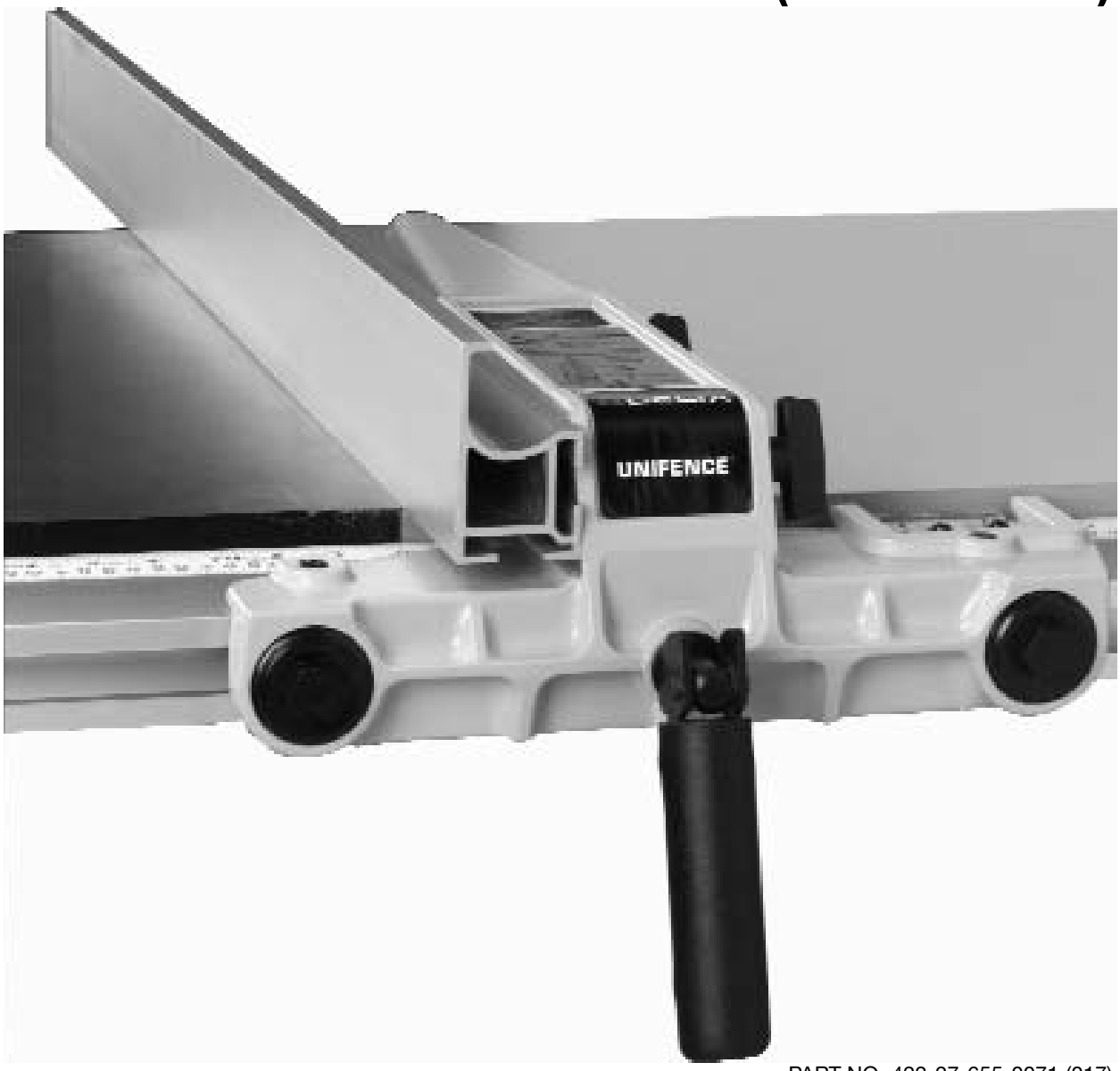
Unifence™ Saw Guide
52" Capacity
(Model 36-889)

INSTRUCTION MANUAL



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INTRODUCTION

The model 36-889, 52” capacity Unifence™ Saw Guide can be assembled to the Delta 10” Tilting Arbor Saw, 10” Unisaw, Contractors Saw, in addition to other makes of table saws. The 36-889 Unifence Saw Guide includes the fence, carriage assembly, front guide rail, table frame and legs. The accessory 34-998 table and shelf for the 36-889 52" Unifence are not included with the 36-889 Unifence™ Saw Guide and must be ordered separately or a similar table and shelf board must be constructed by following the instructions in this manual.

UNPACKING

Carefully unpack the Unifence and all loose items from the shipping cartons.

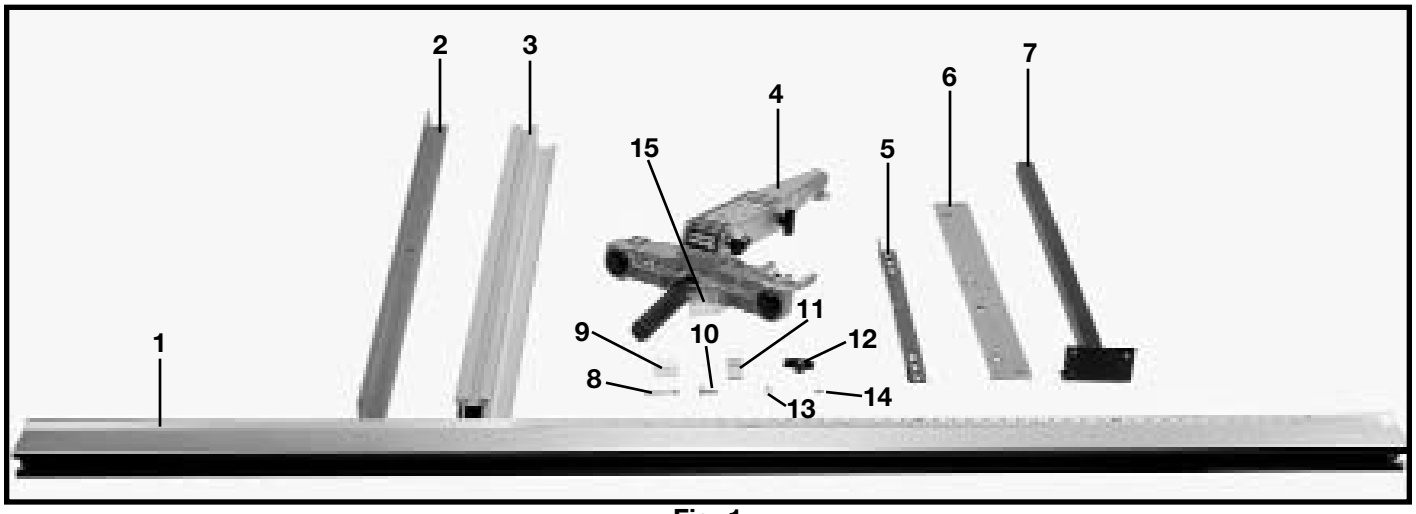
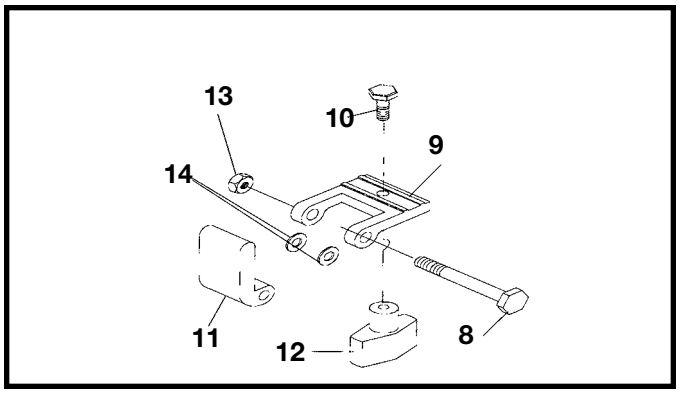


Fig. 1

1. Rail
2. Table Support Bracket (2)
3. Fence
4. Unifence Body
5. Shelf Support Bracket (2)
6. Table Adapter Plate
7. Table Leg (2)
8. 1/4-20x2" Flip stop bolt
9. Flip stop bracket
10. 5/16-18x1" Hex head bolt
11. Flip stop
12. Flip stop knob
13. 1/4-20 Nut
14. Flip stop fiber washer (2)
15. Unifence cursor



CONSTRUCTING UNIFENCE TABLE AND SHELF

If you purchased the Unifence without the table, a table and shelf must be constructed, as follows:

1. A 48" long by 27" wide table is constructed using 3/4" material by following the dimensions shown in Fig. 2. A 40" long by 15" wide lower shelf is constructed using 3/4" material by following the dimensions shown in Fig. 4.

2. Three undercuts must also be made on the bottom left side of the table. The location of these undercuts is shown in Fig. 2, and the size of the undercuts is shown in detail in Fig. 3.

3. **IMPORTANT:** For maximum ease when sliding the fence across the table we suggest that the top of the table be covered with a veneer.

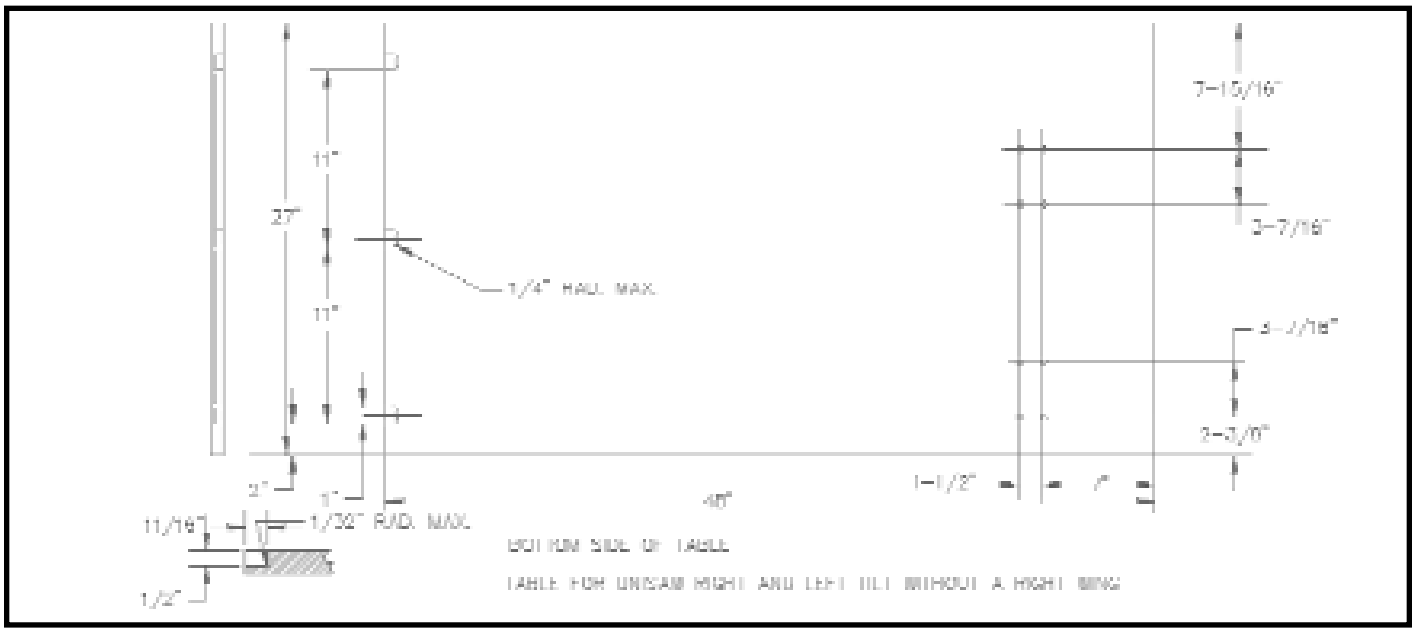


Fig. 2

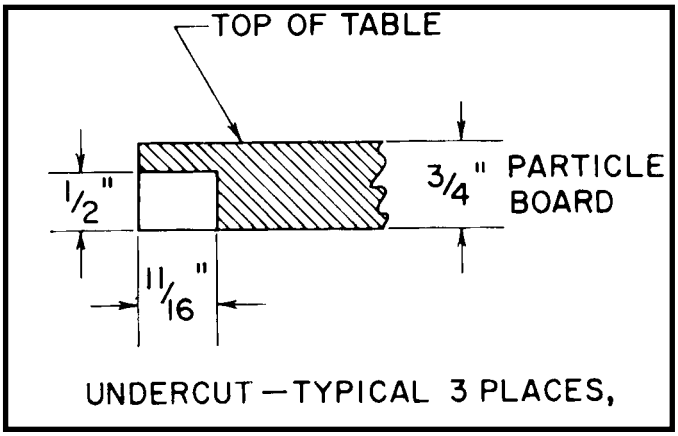


Fig. 3

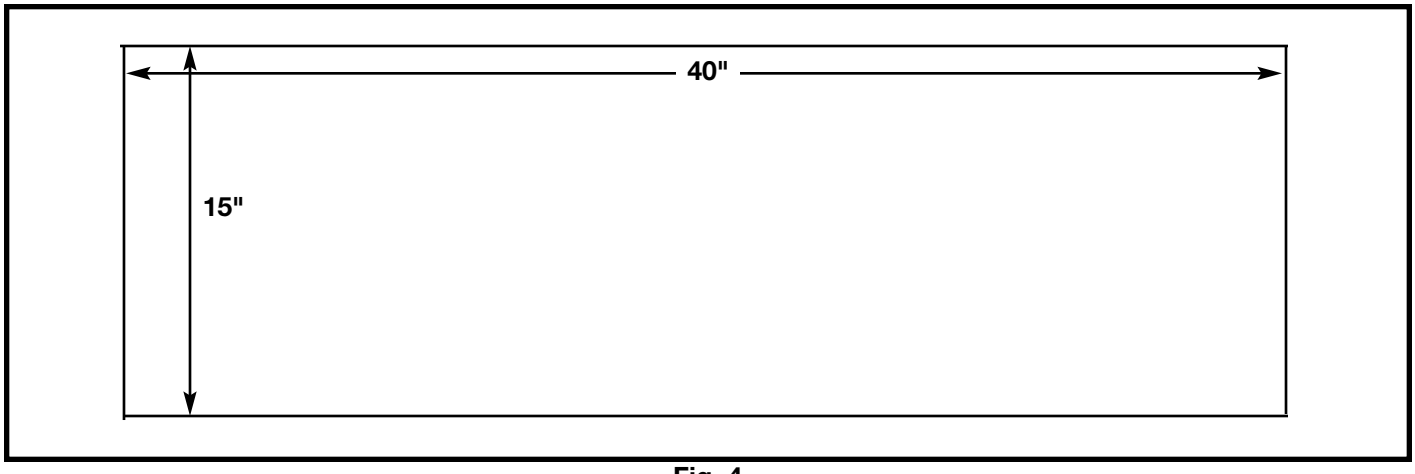


Fig. 4

ASSEMBLING TABLE AND SHELF TO SAW CABINET

1. Remove the right table extension wing and front and rear guide rails from the saw.

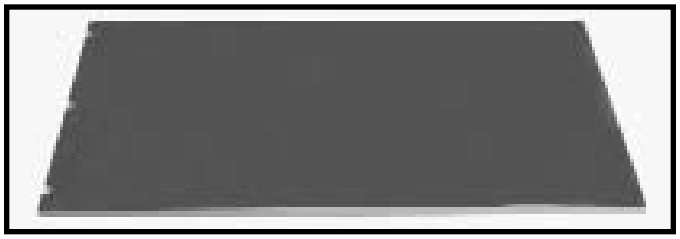


Fig. 5

2. Lay the table upside down on the floor or bench, as shown in Fig. 5.

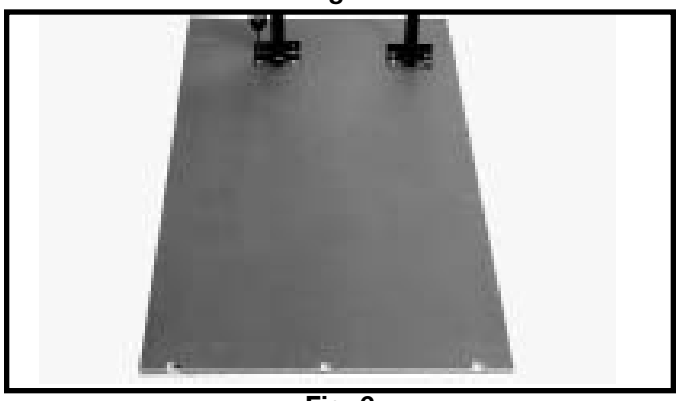


Fig. 6

3. Assemble the two table legs (A) Fig. 6 to the bottom of the table using eight #8x7/8" wood screws. **IMPORTANT: If your saw will be used with a mobile base underneath the saw base and table legs, the position of the legs may have to be changed to fit onto the mobile base. Assemble the mobile base, and position legs in mobile base then attach the legs to the table board.**

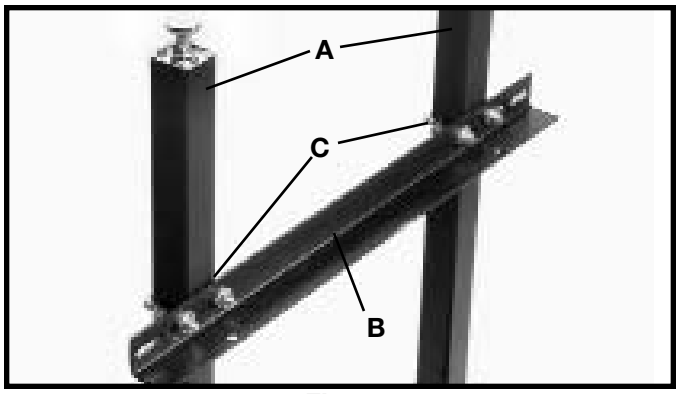


Fig. 7

4. Assemble shelf support bracket (B) Fig. 7, to the table legs (A) using two U-clamps (C), flat washers, and hex nuts. **NOTE:** Height adjustments to the bracket will be made later.

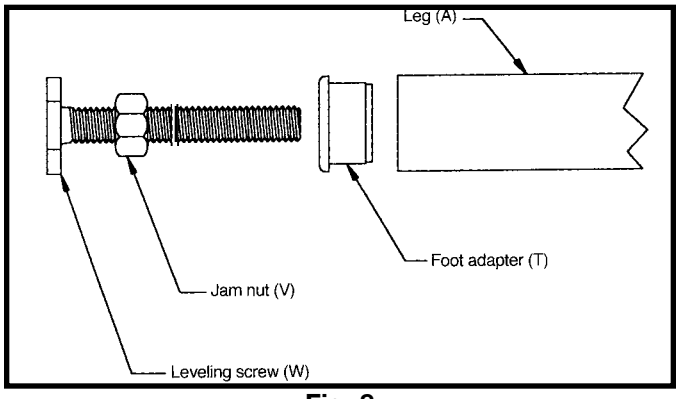


Fig. 8

5. Insert foot adapter (T) Fig. 8, into the bottom of each leg (A). Assemble the 3/8" jam nut (V) approximately 3/4 of the way onto leveling screw (W). Thread the leveling screw (W) into foot adapter. Fig. 9 illustrates the foot leveling assembly on the table leg. Assemble the remaining foot assembly to the other table leg in the same manner. **NOTE:** Height adjustments can be made later.

Fig. 9

6. Fasten the front (F) and rear table (G) supports Fig. 10, to the bottom of the table as shown using four #8x7/8" long wood screws (H) supplied. (Pilot holes can be drilled in the particle using a 1/16" drill bit, drilling 1/2" deep, to help attaching the front and rear table supports.)
NOTE: At this time, the screws (H) holding the front support (F) should not be completely tightened.
NOTE: The slots closer to the angles in the supports (F) and (G) should be against the table.
NOTE: Do not put fasteners in location (I) at this time.
NOTE: Make certain the ends of the table supports do not extend out past the table. The rear support (G) Fig. 10, can be fastened to the bottom of the table by tightening screws (H).
CAUTION: DO NOT OVER-TIGHTEN MOUNTING SCREWS. Over-tightening screws in particle board may cause them to strip.

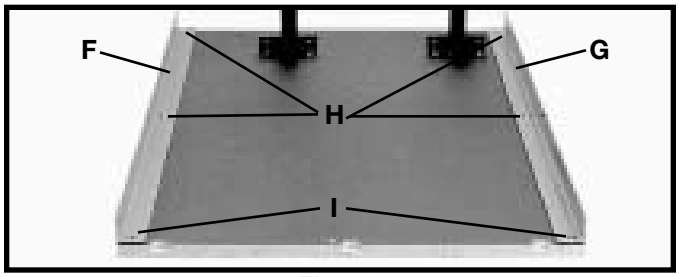


Fig. 10

7. Assemble the three brackets (J) to the table adapter plate (K) using the three 1/4-20x3/4" carriage bolts, nuts and washers, supplied, as shown in Fig. 11. **NOTE:** The long leg of the brackets (J) should be against the adapter plate (K) as shown. Do not completely tighten brackets (J) to adapter plate (K) at this time.

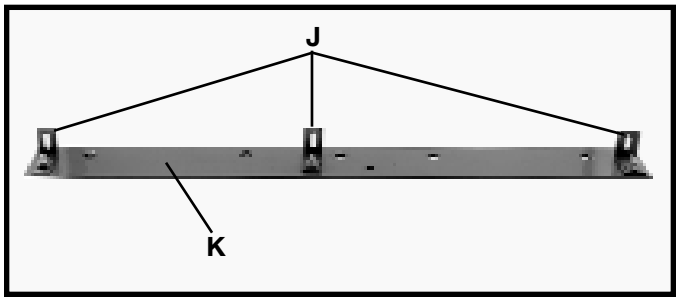


Fig. 11

FOR DELTA TABLE SAWS ONLY

8. Fasten the table adapter plate (K) to the right side of the saw table using the three 7/16-20x1" hex head screws (L) and 7/16" lock washers, supplied, as shown in Fig. 12. **NOTE:** Before tightening screws (L), use a straight edge (M) to make sure top of the adapter plate (K) is level with or slightly below surface of the saw table. Also make sure that the front edge of the adapter (K) does not stick out past the front edge of the saw table.

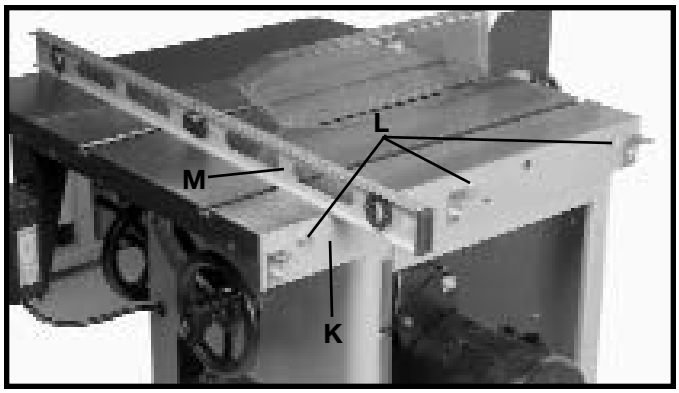


Fig. 12

FOR TABLE SAWS OTHER THAN DELTA

8. Assemble table adapter plate (K) Fig. 12, to the right side of the saw table as shown using three 3/4 inch screws, lockwashers and hex nuts (not supplied). **IMPORTANT:** If the pre-drilled holes in adapter plate do not line up with the holes in the saw table, new holes must be drilled in adapter plate (K) and/or saw table. **NOTE:** Do not drill any hole to fasten adapter plate (K) Fig. 12, to the saw table that will be located less than two inches from either end of the adapter plate. Before tightening three screws (L) Fig. 12, place a straight edge on the saw table and make certain the top of adapter plate is level with or slightly below the surface of the saw table. Also, make certain front of adapter plate (K) Fig. 12, does not extend out past the front edge of the saw table.

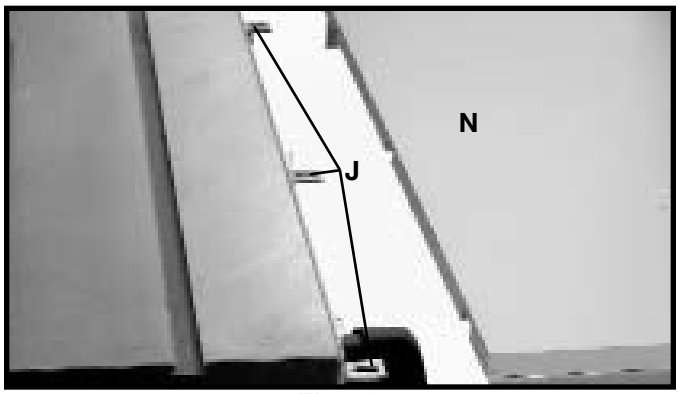


Fig. 13

FOR ALL TABLE SAWS

9. Assemble the table (N) to the three brackets (J) Fig. 13, using three #8x7/8" screws (A), (B), and (C), Fig. 14. **NOTE:** The two screws (B) and (C), Fig. 14, can be tightened and screw (A) Fig. 14, should be left slightly loose at this time.

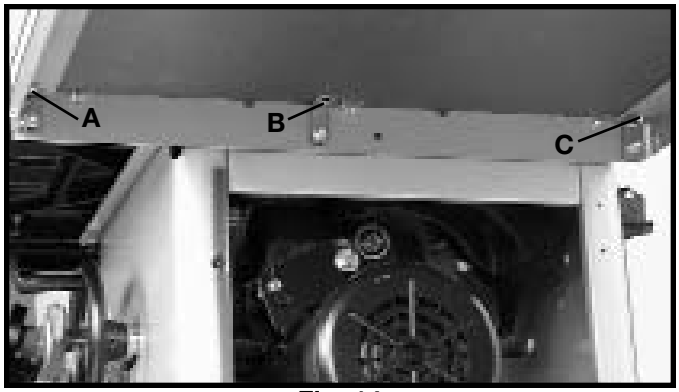


Fig. 14

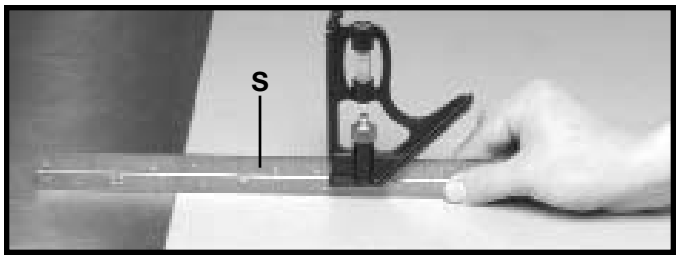


Fig. 15

10. Using a straight edge (S) Fig. 15, make certain the Unifence table surface is level with the saw table by adjusting two leveling screws located on the bottom of table legs and adjusting angle brackets (T) Fig. 16, use a level, side to side and front to back to make sure the table is level. Then tighten three hex nuts (P).

MOUNTING 52" UNIFENCE SHELF TO UNISAW WITH NEW SNAP ON MOTOR COVER ONLY

NOTE: YOU MUST CUT 5" OFF ONE END OF THE SHELF FOR THE SHELF (B) FIG. 16A, TO SLIDE INTO THE NEW MOTOR COVER (C). DISCARD THE SHELF BRACKET AND SCREWS USED TO ATTACH SHELF TO SAW CABINET.

MOUNTING 52" UNIFENCE SHELF TO UNISAW WITH METAL MOTOR COVER

11. Fasten lower shelf bracket (V) Fig. 17, to one end of lower shelf (W) using two #8x7/8" wood screws supplied as shown in Fig. 17. **IMPORTANT:** The side of the bracket (V) Fig. 17, with the narrow slots should be fastened to the table.

12. Fasten bracket (V) Figs. 17 and 18, to saw cabinet as shown using two 1/4-20 x 5/8" hex head screws, two flat washers, and hex nuts. Place a flat washer onto a screw and insert screw through bracket and mounting hole in saw cabinet, then tighten a hex nut onto bolt, repeat this same procedure for the other hole.

MOUNTING THE SHELF TO TABLE LEGS

13. Fasten the other end of lower shelf (W) Fig. 18, to the lower shelf bracket (X), which was assembled to the two legs earlier using two #8 x 7/8" wood screws.

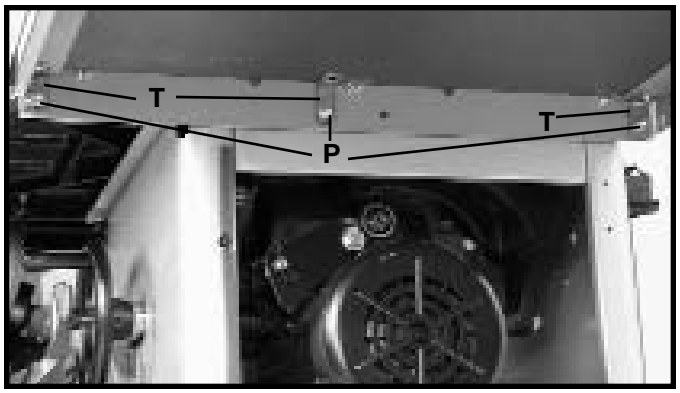


Fig. 16

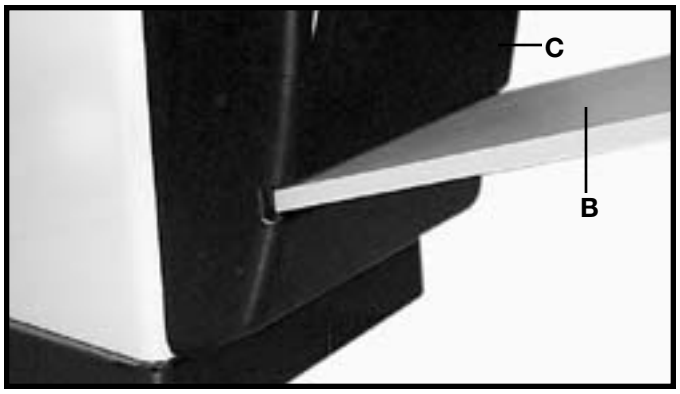


Fig. 16A

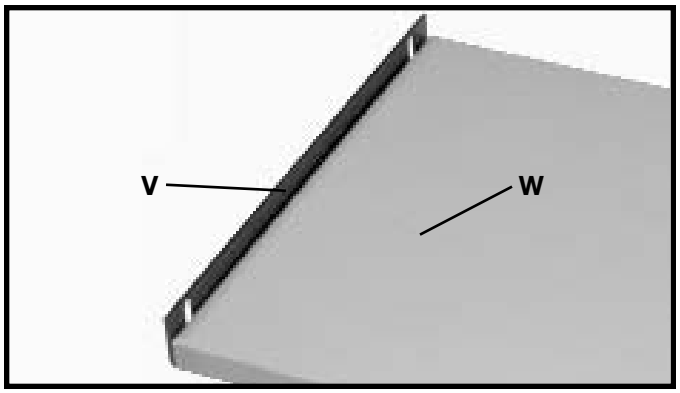


Fig. 17

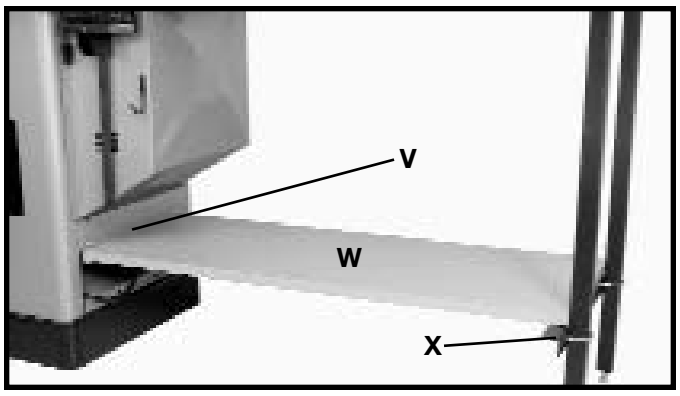


Fig. 18

ASSEMBLING UNIFENCE GUIDE RAIL TO TABLE

1. Locate the Guide Rail and mounting hardware from the packing material of the Unifence.

2. The guide rail has end caps inserted into each end of the rail. Remove the left end cap (B) Fig. 19, by inserting a flathead screwdriver (C) into the channel in front of the guide rail and press outward against the inside of the end cap (B) as shown. The end cap (B) will pop out. **NOTE:** Do not attempt to remove the end cap by forcing the screwdriver between the end cap and the end of the rail. This will damage both the cap and the rail.

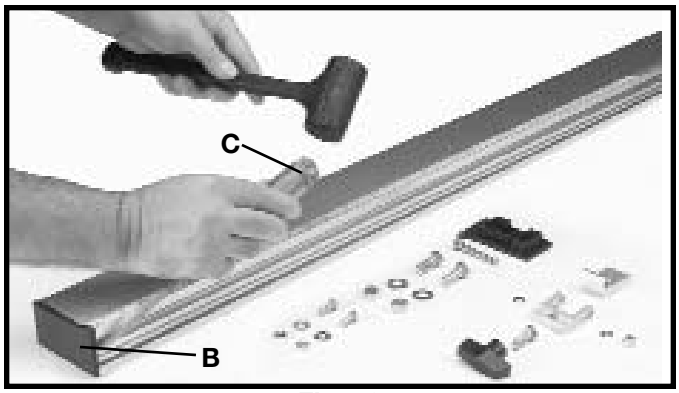


Fig. 19

FOR DELTA TABLE SAWS ONLY

3. Insert two 3/8-24x1" hex head bolts into the two holes (F) Fig. 20, in the front of saw table and place flat washer and nut onto bolt from underneath the saw table. Screw bolts into nuts two full turns, leaving bolt head extended approximately 1/2" from the table. **Note: Make sure to use only the two holes shown at (F).**

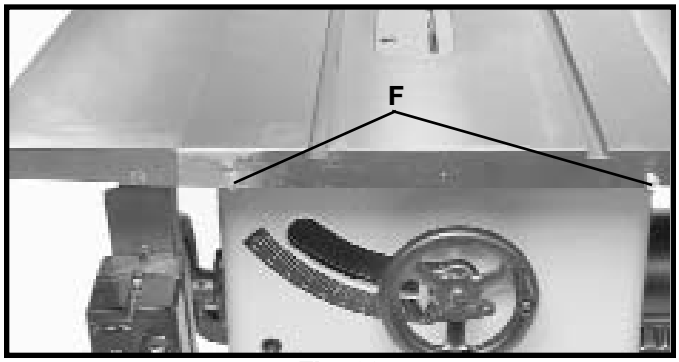


Fig. 20

FOR TABLE SAWS OTHER THAN DELTA

3. Drill two 7/16" holes in the front of the table 1.18" from the top of the table and approximately 2" in from the right and left side of the table. Insert two 3/8-24x1" hex head bolts into the two holes (F) Fig. 20, in the front of saw table and place flat washer and nut onto bolt from underneath the saw table. Screw bolts into nuts two full turns, leaving bolt head extended approximately 1/2" from the table.

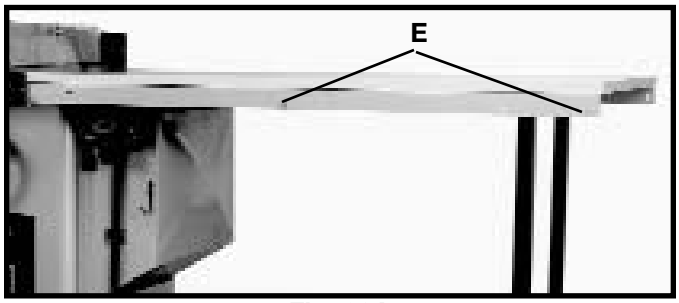


Fig. 20A

FOR ALL TABLE SAWS

4. Insert two 1/4-20x3/4" hex head bolt (E) Fig. 20A into the front support of the extension table and place flat washer and nut onto bolt from underneath the extension table. Screw bolt into nut two complete turns, leaving bolt head extended approximately 1/4" from the extension table.

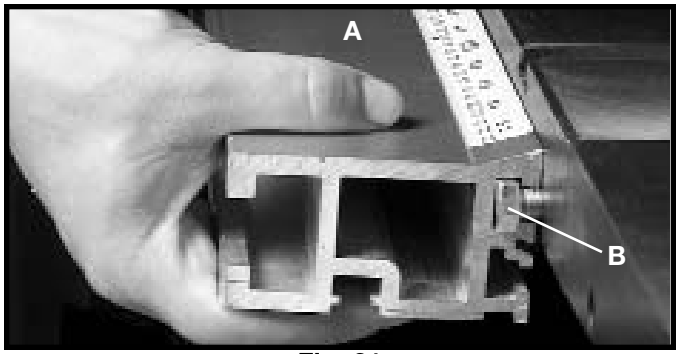


Fig. 21

5. From either end, slide the T-SIot guide rail (A) Fig. 21, onto the hex head of the bolts partially inserted in step 2 and 3 above. **Note: The bolt heads on the saw table slide into the upper t-slot (B) Fig. 21 and the bolt head on the extension table slide into the lower t-slot (C) Fig. 22.**

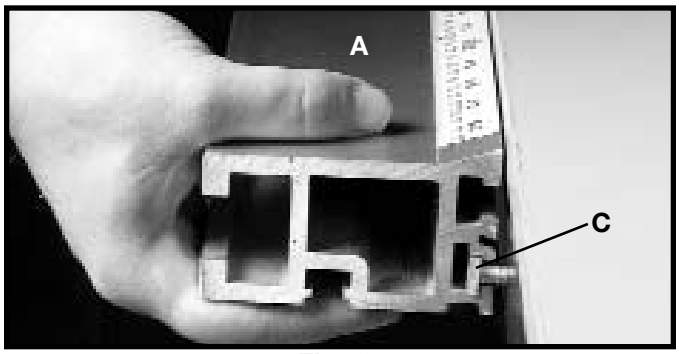


Fig. 22

6. Slide the guide rail along until the “0” on the Unifence scale is aligned with the right edge of the saw table. Snug the hex nuts on the saw and extension table but do not tighten at this time.

7. Adjust the guide rail (C) Fig. 23, parallel with the saw table surface by placing a square (H) on the saw table at both the left and right front ends of the table, with the rule of the square against the flat surface on top of the guide rail. The guide rail (C) Fig. 23, can be adjusted up or down at either end. After you are certain the guide rail is parallel with the table surface, firmly tighten the two hex nuts that fasten the guide rail to the table.

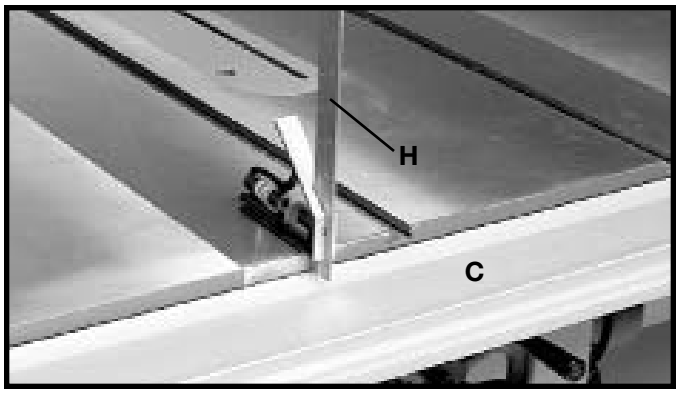


Fig. 23

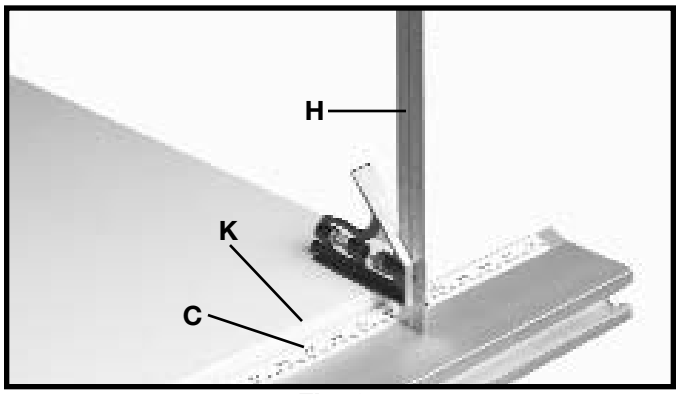


Fig. 24

8. Move the square (H) Fig. 24, to the end of the Unifence table and check to make certain the same distance is maintained from the top surface of the extension table (K) to the top surface of the guide rail (C). Move the front table support (L) Fig. 25, against the guide rail (C), and tighten the 1/4-20 nuts (M). Tighten two wood screws, one of which is shown at (N) Fig. 25, that fasten the Unifence table to the guide rail.

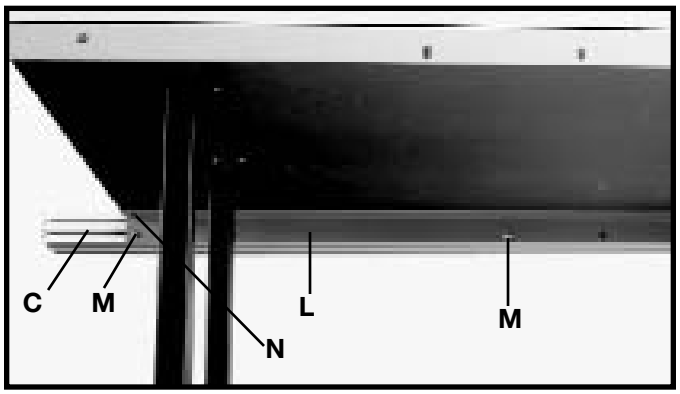


Fig. 25

ASSEMBLING RAIL STOP

1. Insert 1/4-20x2" bolt (A) through hole into one side of bracket (B) Fig. 26.

2. Place one washer (C), on bolt (A), and slide bolt through flip stop (D) Fig. 26.

3. Place the other washer (C), on bolt (A), and slide bolt (A) through other side of bracket (B) Fig. 26.

4. Screw nut (E) onto bolt (A) and tighten.

5. Insert bolt (F) through bracket (B) as shown and screw knob (G) onto bolt (F) approximately 3 complete turns. Fig. 26.

6. To attach rail stop to unifence as shown in Fig. 28.

7. Using a rubber mallet (P) Fig. 27, or a hammer and a block of wood, gently tap end cap (R) into both ends of the guide rail. **NOTE:** To avoid damage to the guide rail, **DO NOT** use a metal hammer directly against the guide rail.

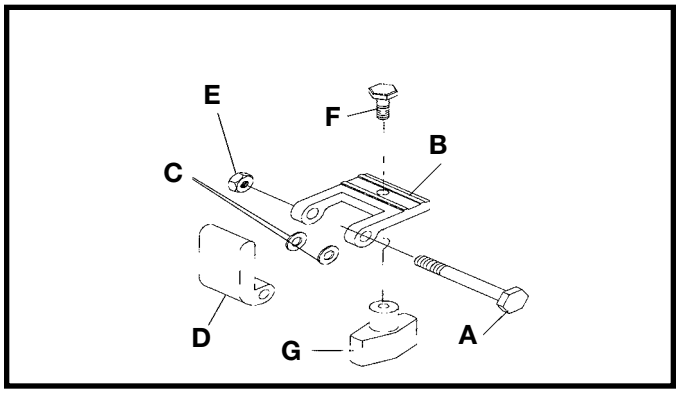


Fig. 26

ADJUSTING FLIP STOP

1. The Flip Stop Assembly Fig. 28, can be adjusted to any number of positions along the guide rail providing a quick stop setting for the Unifence body by loosening knob (G) and sliding the stop along the rail to the desired position and re- tighten.

2. Any number of stops, Delta Cat. No. 36-899, can be purchased and installed to provide time saving quick stop adjustment for the Unifence body.

3. If flip stop does not retract fully the bolt (F) Fig. 28, may have to be repositioned in the rail slot to allow the flip stop to retract fully. If bolt (F) needs to be repositioned, just slide the bolt out of the rail and turn the head of the bolt one third of a turn (one flat) and slide back into rail, repeat this until the bolt is in the right position for the flip stop to retract fully, as shown in Fig. 29.

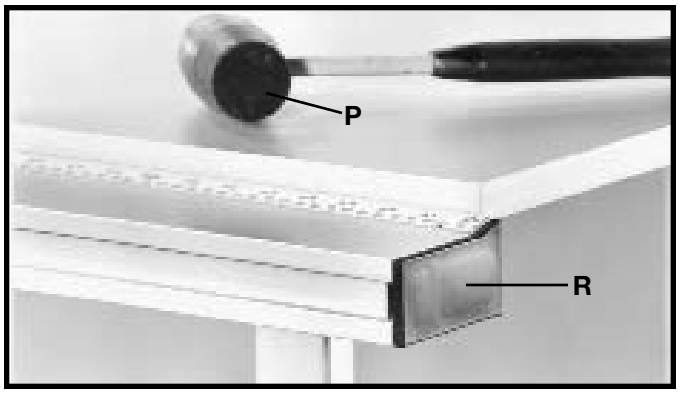


Fig. 27

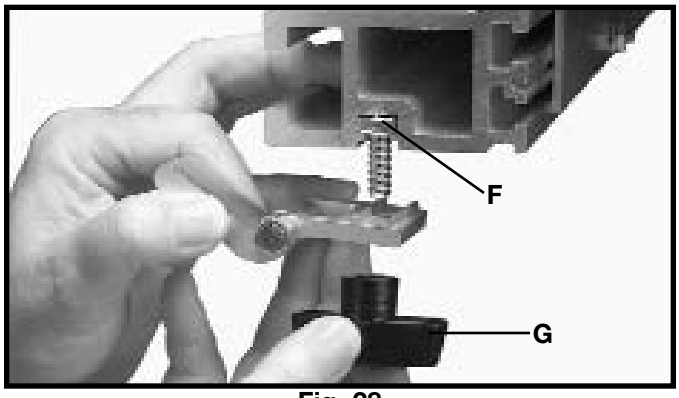


Fig. 28


Fig. 29

ASSEMBLING CURSOR TO UNIFENCE BODY

1. Remove two screws and flat washers (A) Fig. 30, and assemble the cursor (B) to the Unifence body (C). Replace the two screws and flat washers (A).

2. Fig. 31 illustrates the cursor (B) assembled to the Unifence body. Adjustment to the cursor (B) will be made later.

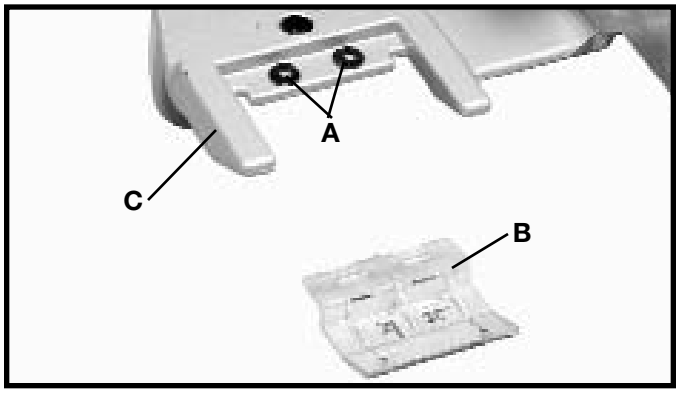


Fig. 30

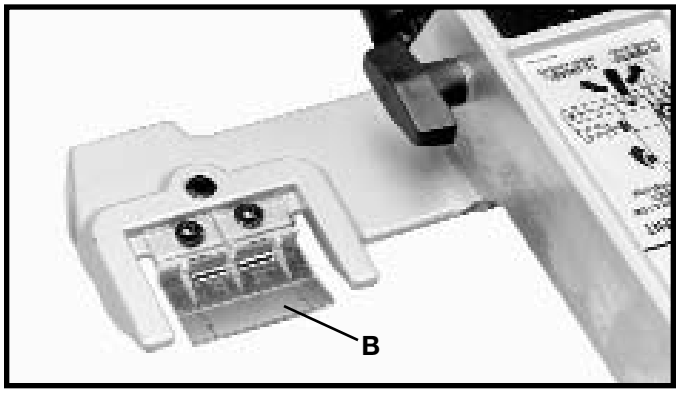


Fig. 31

ASSEMBLING UNIFENCE BODY TO GUIDE RAIL

1. Turn fence body (A) Fig. 32, upside down and lay it on a table or bench. Pull handle (B) out against fence body. Make certain the surface (C) of clamp bracket is parallel to the face (D) of the fence body, and that the inside edge (E) of the clamp bracket is parallel to surface (F) of the fence body. Turn handle (B) Fig. 32, if necessary.

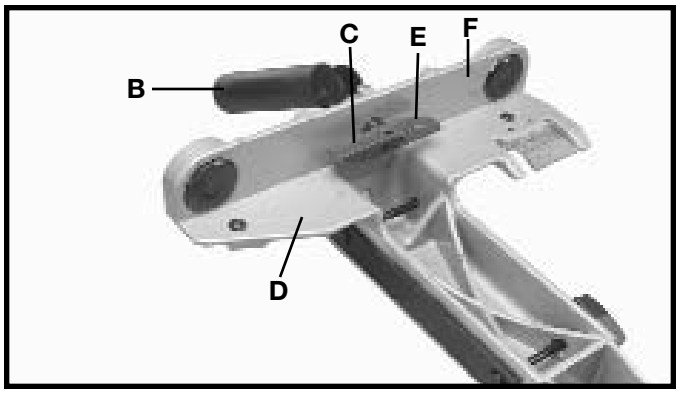


Fig. 32

2. Place fence body (A) Fig. 33, onto the guide rail as shown, making sure clamp bracket is inserted into channel (G) on rail. Notice that the clamp handle (B) is turned to the left indent position.

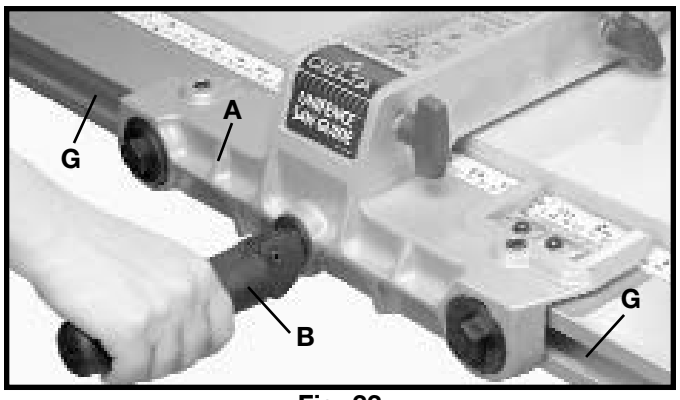


Fig. 33

3. While pushing in on handle (B), turn to the right indent position as shown in Fig. 34. This will prevent fence clamp from sliding out of the channel (G).

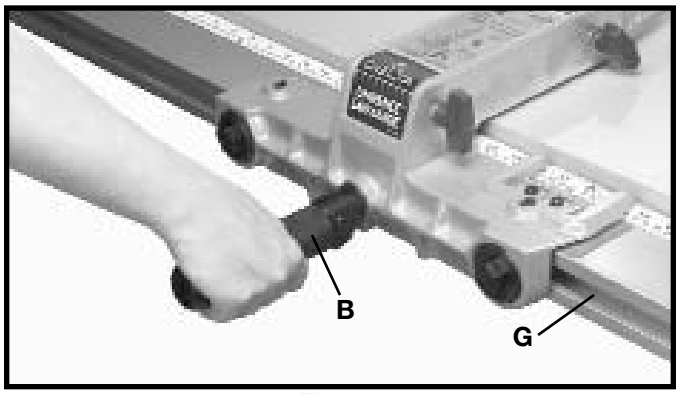


Fig. 34

4. Lock fence body (A) to the guide rail by pushing down on handle (B) as shown in Fig. 35.

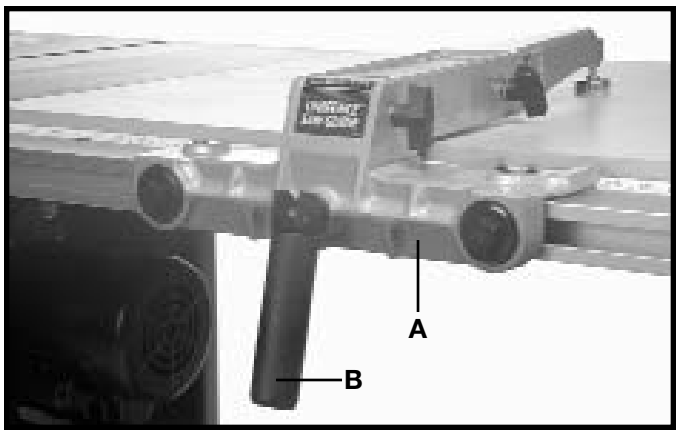


Fig. 35

ASSEMBLING FENCE TO UNIFENCE BODY

1. The fence (A) can be assembled to clamp plate (B) in either the horizontal position as shown in Fig. 36, or the vertical position as shown in Fig. 37. Make certain the two lock knobs, one of which is shown at (C), are loose and slide fence (A) onto clamp plate (B) as shown. Then tighten the two lock knobs (C).

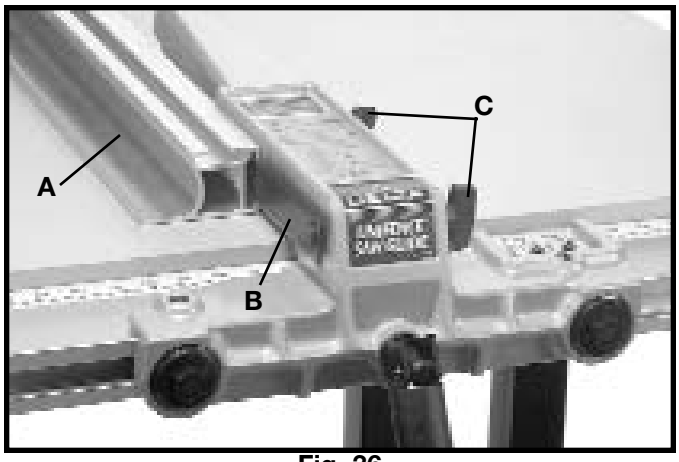


Fig. 36

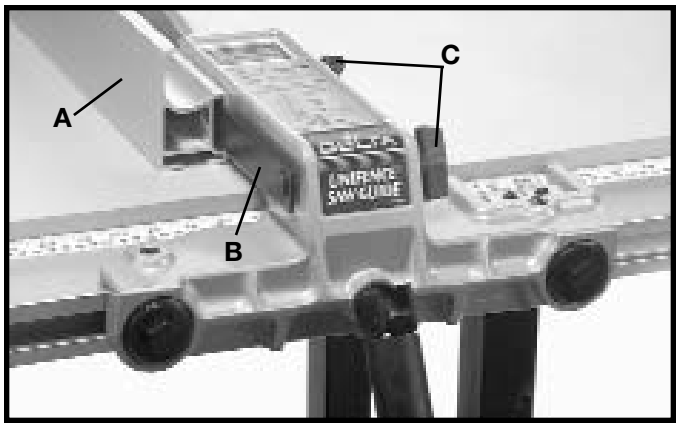


Fig. 37

2. For most normal ripping operations, the bottom of the fence should be positioned slightly above the table surface. Loosen two lock knobs (C) Fig. 38, and place a thin object such as a ruler (D) between the table and fence, as shown. Then tighten two lock knobs (C).

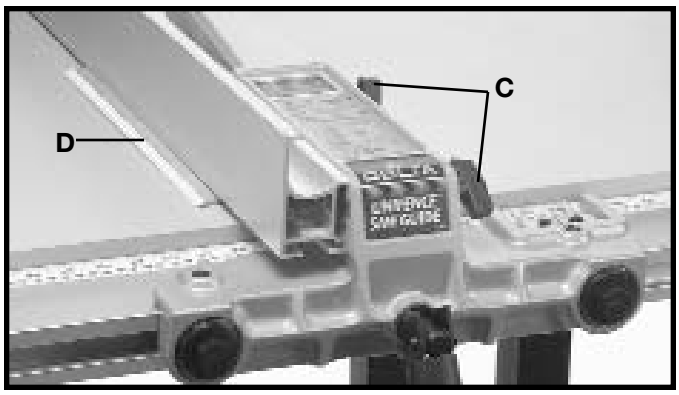


Fig. 38

FENCE OPERATION

1. Before operating fence, make sure the fence is adjusted parallel to miter gage slot, as explained later on in this manual.

2. For most normal ripping operations of standard size lumber, the fence is used in the vertical position, as shown in Fig. 39.

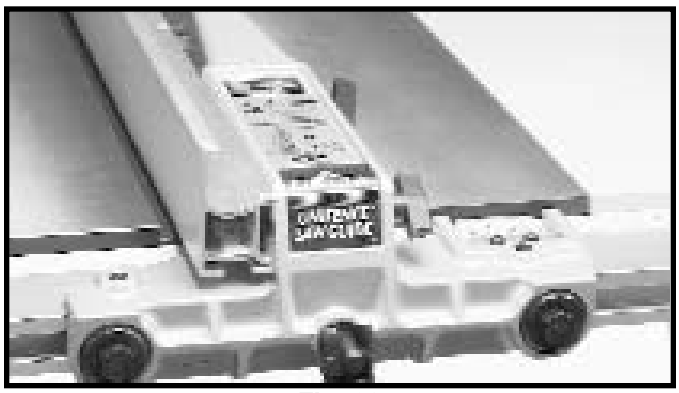


Fig. 39

3. When ripping thin stock, it is sometimes more convenient to use the fence in the horizontal position, as shown in Fig. 40.

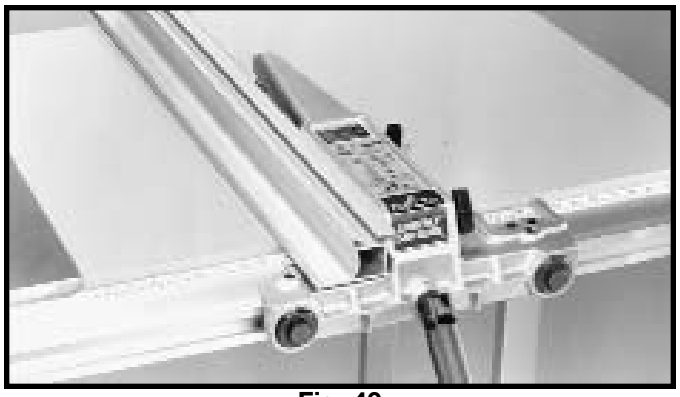


Fig. 40

4. To move the fence along the guide rail, lift up clamp lever (A), as shown in Fig. 41, slide fence to desired position on the rail, and push down on clamp lever (A) to lock fence in place.

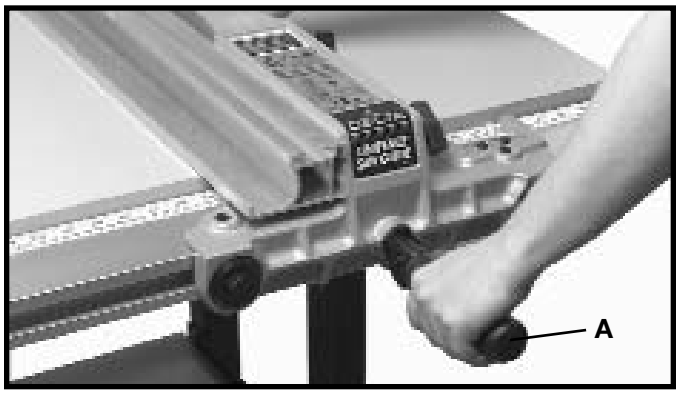


Fig. 41

5. The distance the fence is positioned away from the blade is indicated by the two witness lines (B) and (C) Fig. 42, located on the cursor (D). Witness line (B) indicates the distance the fence is away from the blade when the fence is in the horizontal position, and witness line (C) indicates the distance the fence is away from the blade when the fence is in the vertical position. If it is necessary to adjust cursor (D), make a test cut with the fence in either the vertical or horizontal position, measure the distance of the finished cut and move the cursor (D) by loosening the two screws (E) Fig. 42. After adjustment is completed tighten the two screws (E).

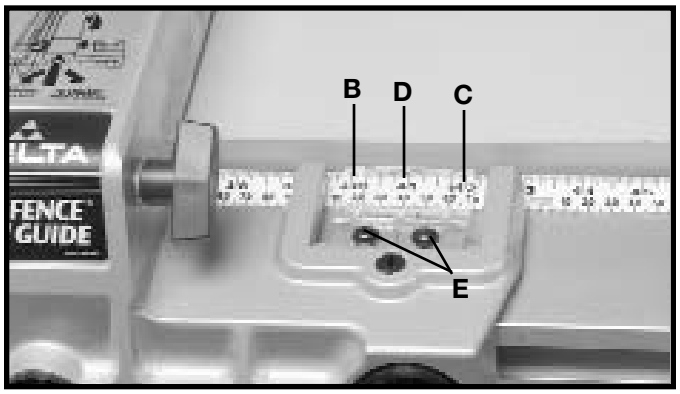


Fig. 42

6. To remove the fence and fence body assembly (F) Fig. 43, from the guide rail, lift up on fence clamping lever (A) and turn lever (A) to the left indent position. The fence assembly (F) can then be pulled straight off the guide rail and removed.

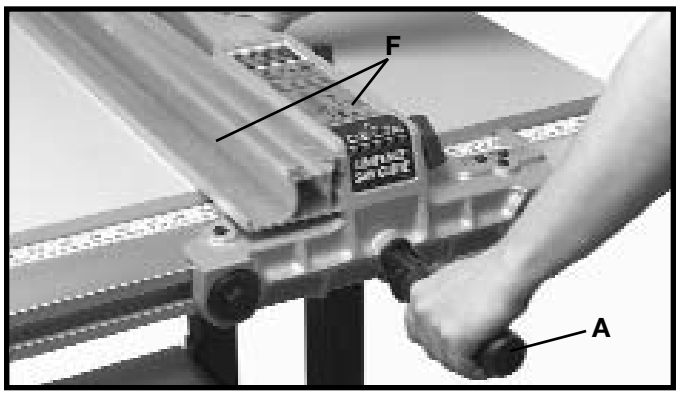


Fig. 43

RIPPING WITH THE UNIFENCE

Ripping is the operation of making a lengthwise cut through a board, as shown in Fig. 44, and the rip fence (A) is used to position and guide the work. One edge of the work rides against the rip fence while the flat side of the board rests on the table. Since the work is pushed along the fence, it must have a straight edge and make solid contact with the table. The saw blade guard must be used. On Delta saws, the guard has anti-kickback fingers to prevent kickback and a splitter to prevent the saw from closing and binding the blade.

Never stand in the line of the saw cut when ripping. Hold the work with both hands and push it along the fence and into the saw blade as shown in Fig. 44. The work can then be fed through the saw blade with one or two hands. After the work is beyond the saw blade and anti-kickback fingers, the hand is removed from the work. When this is done the work will either stay on the table, tilt up slightly and be caught by the end of the rear guard or slide off the table to the floor. Alternately, the feed can continue to the end of the table, after which the work is lifted and brought along the outside edge of the fence. The cut-off stock remains on the table and is not touched with the hands until the saw blade is stopped, unless it is a large piece allowing safe removal. When ripping boards longer than three feet, it is recommended that a work support be used at the rear of the saw to keep the workpiece from falling off the saw table.

If the ripped work is less than 4 inches wide, a push stick should always be used to complete the feed, as shown in Fig. 45.

When ripping material with a veneer facing that extends over the material, the fence (A) should be in the horizontal position with the veneer (B) extending over the lip of the fence, as shown in Fig. 46.

When ripping material with a veneer facing and the material is not thick enough for the veneer to extend over the lip of the fence or if the veneer facing (B) is on both sides of the material, as shown in Fig. 47, the fence can be positioned slightly above the surface of the table. The veneer can be placed between the fence and the table or the veneer can straddle the fence with the material solidly against the fence.

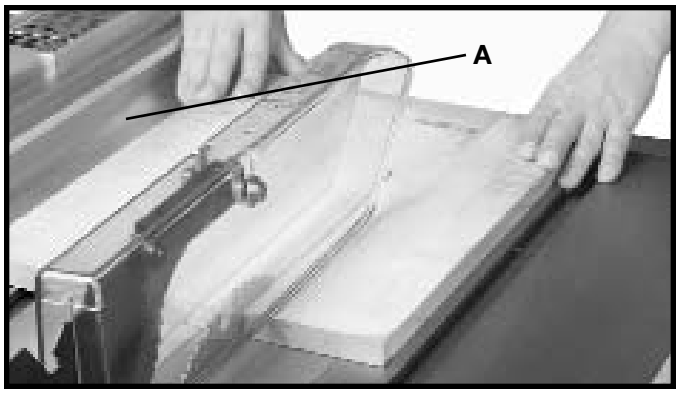


Fig. 44

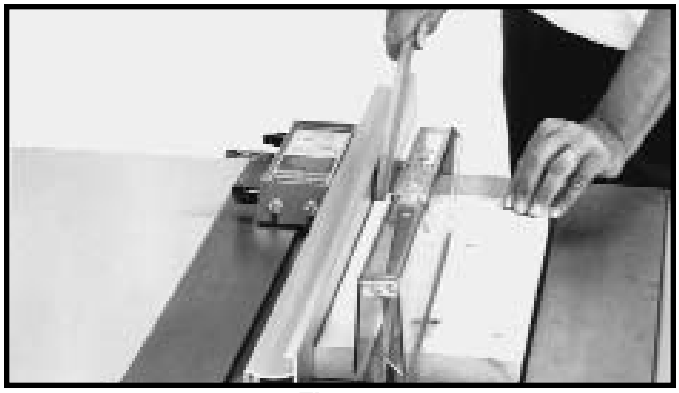


Fig. 45

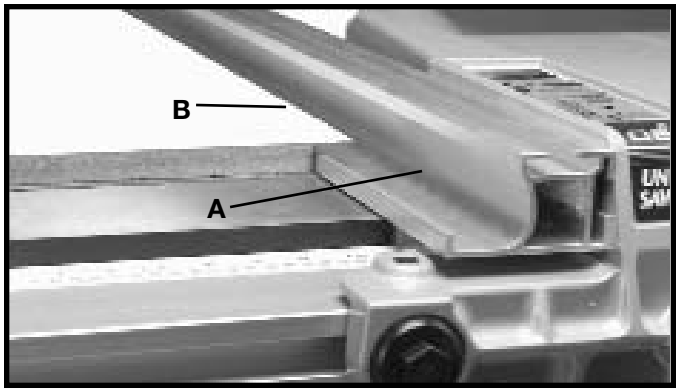


Fig. 46

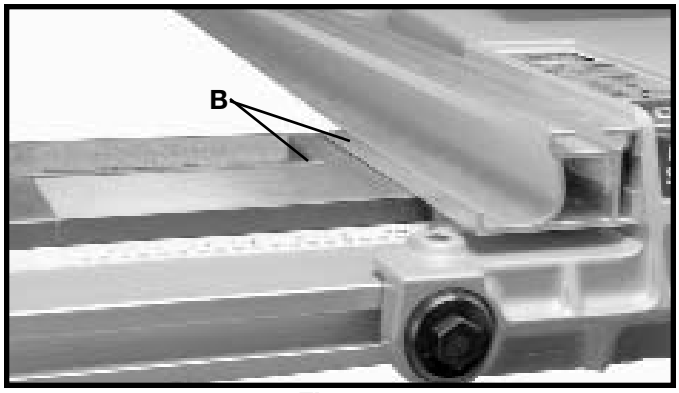


Fig. 47

ADJUSTING FENCE PARALLEL TO MITER GAUGE SLOTS

The fence (A) Fig. 48, should be adjusted so it is parallel to miter gage slots (B). To check and adjust, move the fence (A) until the bottom front edge of the fence is in line with the edge of the miter gage slot as shown, and push down on fence clamping lever (C). Check to see if the fence is parallel to the miter gage slot the entire length of the table. If the rear of the fence must be moved, slightly tighten or loosen one of the adjustment plugs (D) or (E) Fig. 48, using the arbor wrench or a 7/8" wrench, until the fence is parallel with the miter gage slot. **IMPORTANT: DO NOT OVER-TIGHTEN PLUGS (D) AND (E) FIG. 48. VERY LITTLE MOVEMENT OF THESE PLUGS IS NECESSARY WHEN ADJUSTING THE FENCE PARALLEL WITH THE MITER GAGE SLOT.**

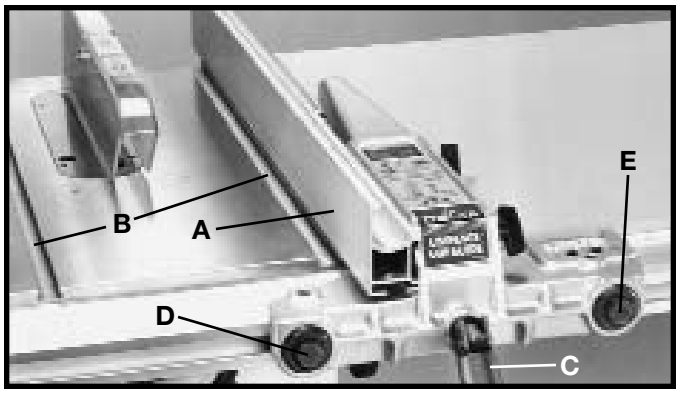


Fig. 48

ADJUSTING FENCE 90 DEGREES TO TABLE

The fence must be adjusted so that the face of fence (A) Fig. 49, is 90 degrees to the table. To check if the fence is 90 degrees to the table, place a square (B) on the table with one end of the square against the fence, as shown. If an adjustment is necessary, tighten or loosen one of two screws (C) or (D) until the fence is 90 degrees to the table.

IMPORTANT: VERY LITTLE MOVEMENT OF THESE SCREWS (C) AND (D) IS NECESSARY TO MAKE THIS ADJUSTMENT.

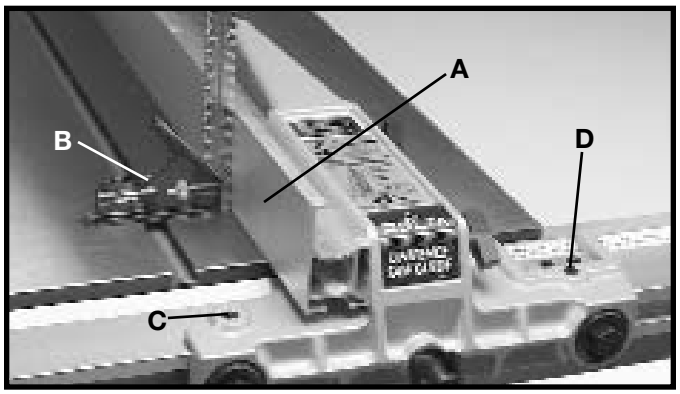


Fig. 49

ADJUSTING CLAMPING ACTION OF FENCE LOCKING HANDLE

When the fence locking handle (A) is pushed to the down position, as shown in Fig. 50, the fence body (B) should be completely clamped to the guide rail. If the fence body (B) is not completely clamped to the guide rail when the handle (A) is in the position shown in Fig. 50, lift up on locking handle (A) Fig. 51, and slightly tighten two adjustment plugs (C) using the arbor wrench or 7/8" wrench. Adjustment plugs (C) should be tightened an equal amount. Check to see if the fence body (B) is completely fastened to the rail by pushing down on locking lever (A). Adjust further if necessary. **IMPORTANT: AFTER ADJUSTING THE CLAMPING ACTION OF THE FENCE LOCKING HANDLE, CHECK TO SEE IF THE FENCE IS PARALLEL TO THE MITER GAUGE SLOT AND ADJUST IF NECESSARY.**

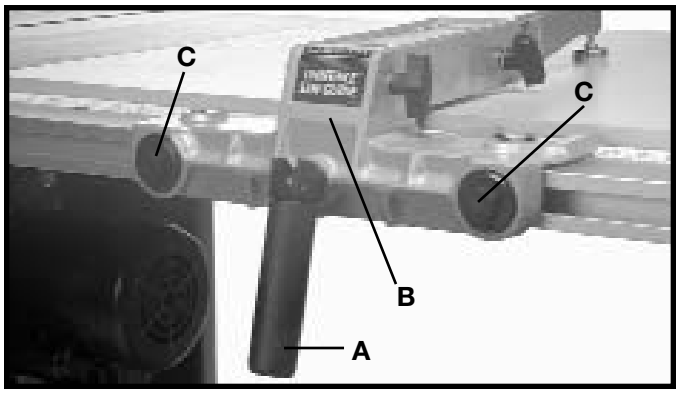


Fig. 50

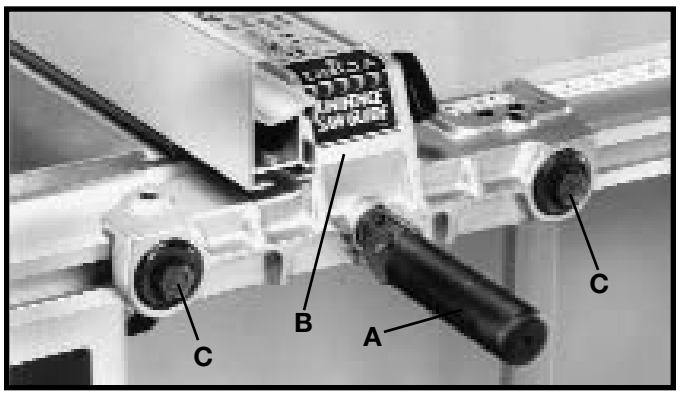


Fig. 51

RIPPING ON LEFT SIDE OF SAW BLADE

In some cases it may be desirable to use the fence on the left side of the saw blade. This is accomplished by repositioning the fence (A) Figures 52 and 53, fence clamp bar (B) and lock knobs (C) so that the fence (A) will be attached to the right side of the fence body, as shown in Fig. 53. The complete fence assembly (D) Fig. 53, can easily be moved to the left side of the saw table.

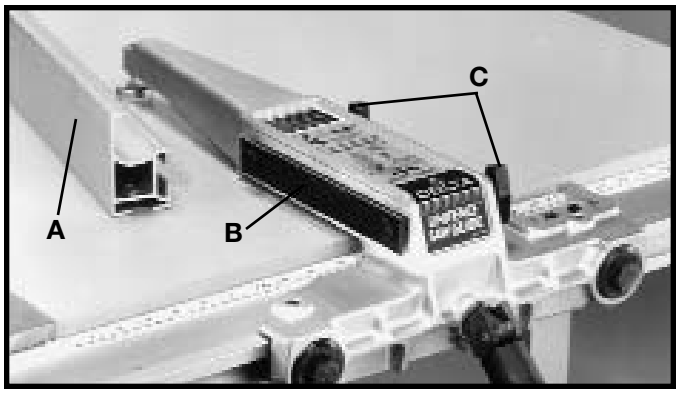


Fig. 52

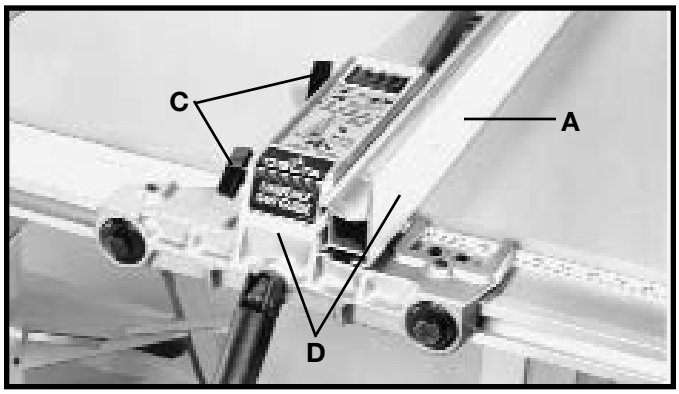


Fig. 53

USING THE FENCE AS A CUT-OFF GAUGE

The fence can be used as a cut-off gage when cross cutting a number of pieces to the same length. **IMPORTANT:** When using the fence as a cut-off gage, it is very important that the rear end of the fence be positioned in front of the saw blade. When using the fence as a cut-off gage, simply position the fence (A) to the front as shown in Fig. 54, or purchase a 12" long fence (B), as shown in Fig. 55. A typical operation using the 12" long fence (B) as a cut-off gage is shown in Fig. 56.

Fig. 54

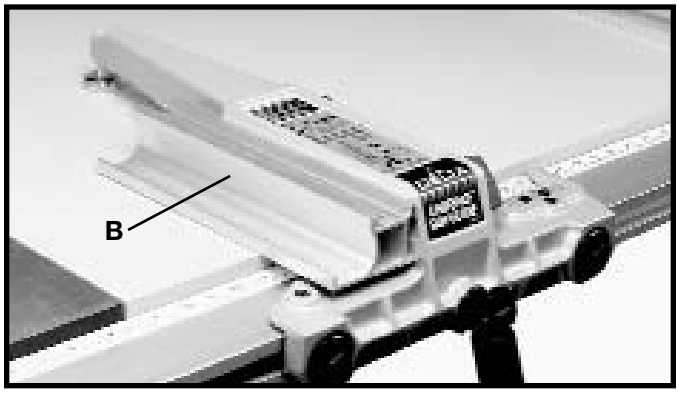


Fig. 55

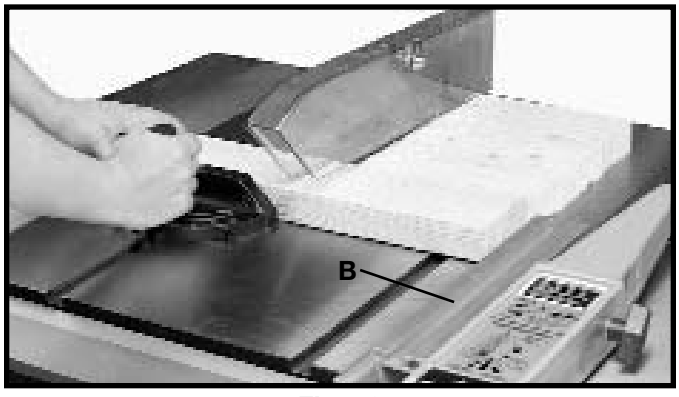


Fig. 56

USING AUXILIARY WOOD FACING ON THE UNIFENCE

It is necessary when performing special operations such as when using the moulding cutterhead to add wood facing (A) Fig. 57, to one side of the rip fence as shown. The wood facing is attached to the fence with wood screws through holes drilled in the fence. A suitable stock size for most work is 3/4", although an occasional job may require one inch facing.

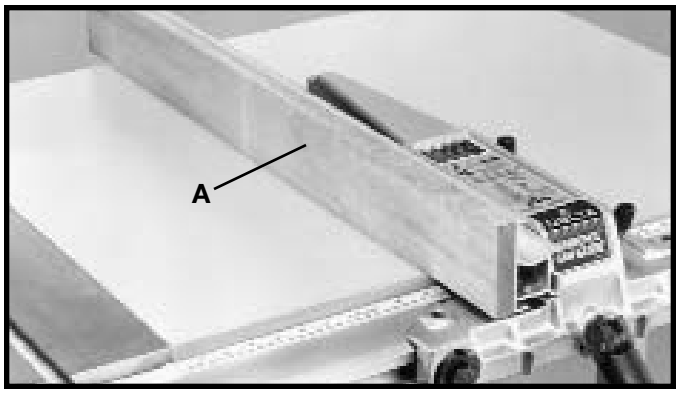
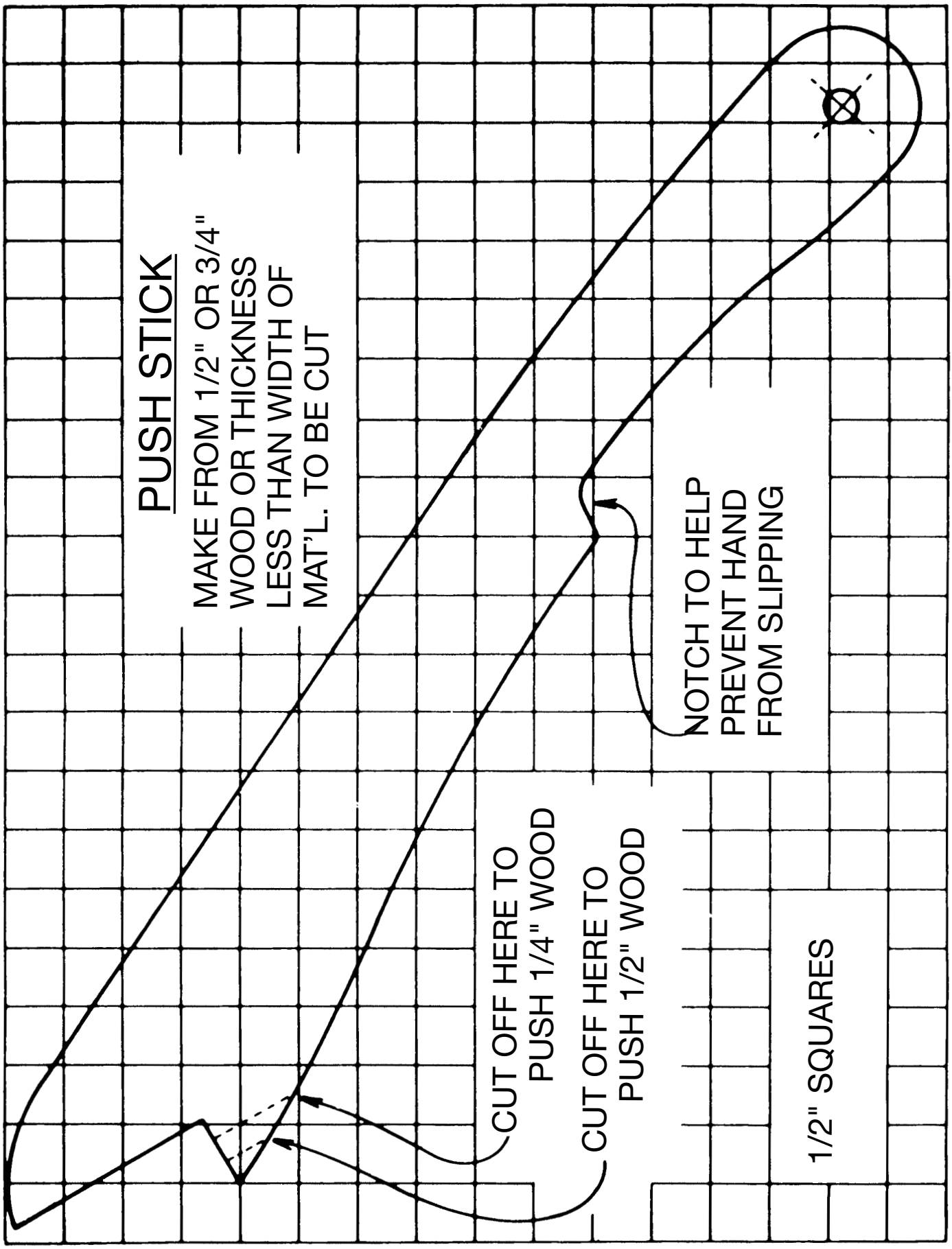


Fig. 57

CONSTRUCTING A PUSH STICK

When ripping work less than 4 inches wide, a push stick should be used to complete the feed and could easily be made from scrap material by following the pattern shown.



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