



Always the Better Idea.

User Instructions

MODEL NO. 1212 **SignPro**TM

Safety warning: Always wear safety glasses or eye shields before commencing power tool operation. Follow your manufacturer's instructions for safety when using this attachment. Always wear protective eyewear when operating power tools. Always keep hands at a safe distance from spindles and cutting tools. Always disconnect power source before working with power tools.

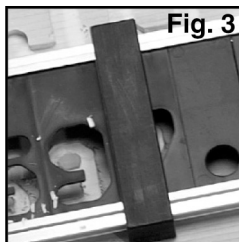
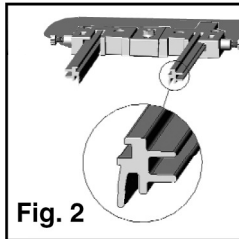
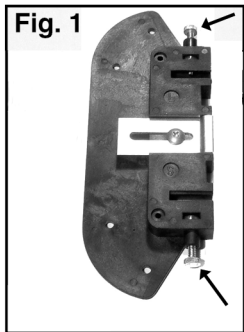
HELPFUL HINTS

- Use the provided 3/8in. bit with the 5/8 in. bushing for the large letters. Use the provided 1/4 in. bit with the 7/16 in. bushing for the small letters.
- A variety of bit styles may be used to achieve different looks as you utilize your Sign Maker. Use a bit with 1/4 in. shank and is at least 2 in. overall length to be sure it is long enough to work with your Sign Maker.
- Use of a clamping system in addition to that which comes with your Sign Maker is recommended, to ensure your board does not move during routing.
- To avoid confusion, invert unused letters that have been placed in the rails to be fillers. This will help ensure you do not mistakenly rout a letter.
- Your board must be at least as long as the assembled rails and end plates. For short signs, rout on a long board and cut to size.
- Always go in a clockwise direction around the inside of the letter template
- For deep cuts, it is best to make multiple passes, increasing the depth each time
- Nail holes are provided to secure letter template to work board in special situations.
- To finish your sign, seal with a good quality sealer to prevent runs before painting. Paint entire board and belt sand top surface for fast results.

ASSEMBLING SIGN MAKER

Check the parts in your box against the parts list. If there are any missing parts, please call 815-874-2400

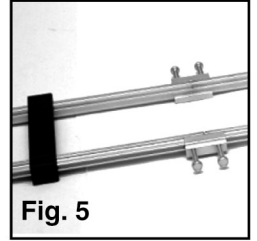
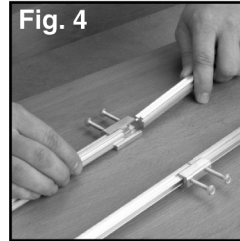
1. Unloosen (2) screws (Fig. 1) in each end cap
2. Insert (2) 18 in. rails (Fig. 2) in to left end frame. Make sure rail is inserted in correct orientation. Tighten (2) screws from #1.



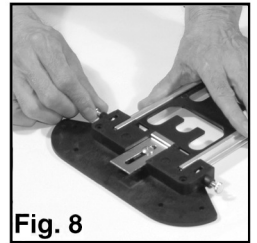
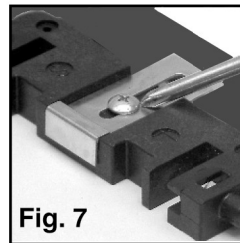
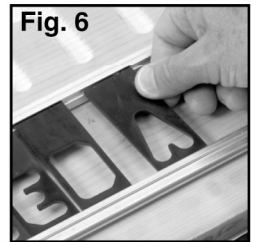
3. Insert (1) support bridge (Fig. 3) on to 18 in. rails

If short sign holder is desired, proceed to #6. For long sign holder, continue with #4.

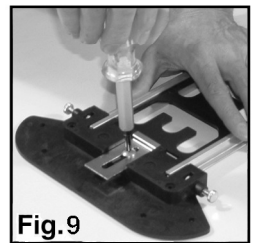
4. Insert (2) rail joiners (Fig. 4) half way onto the end of rails and tighten one screw on each joiner. Insert (2) 18 in. rails in to other side of rail joiner and tighten screw.
5. Insert (1) support bridge (Fig. 5) on to second 18 in. rail.



6. Select the letters needed to spell the word you will engrave. Blank Templates are furnished to use between words.
7. Place the chosen letters in the letter slot (Fig. 6). Fill the rest of the rail with additional letters to fill unused space.
8. Loosen adjustable spacer on (Fig. 7) end cap and slide all the way in.

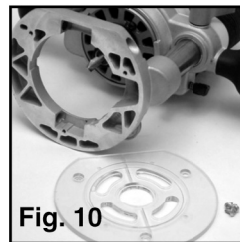


9. Install end cap (Fig. 8) on to end of rails and tighten screws.
10. Slide adjustable spacer (Fig. 9) to the left to keep the letters tight. Then retighten the adjustable spacer.



ASSEMBLING TURNLOCK BASE PLATE TO ROUTER

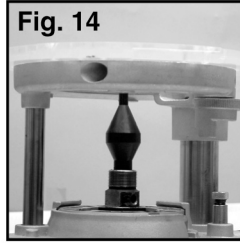
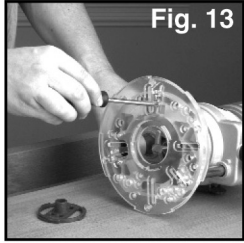
1. Remove power source from router
2. Remove existing base (Fig. 10) from router by removing appropriate screws/bolts.
3. Hold the Base Plate (Fig. 11) so that the screw mounting area is facing away from the router.



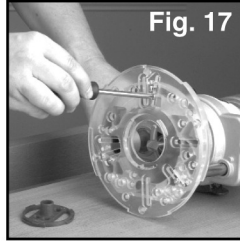
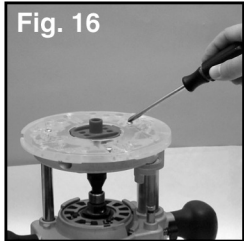
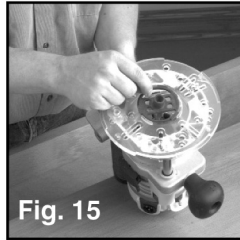
4. Rotate the Base Plate over the router's threaded screw holes (Fig 12) until the correct alignment is found.



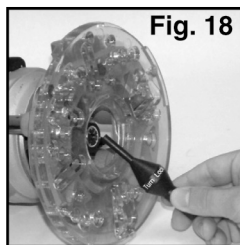
- Loosely fasten the Base Plate (Fig. 13) to the router by installing the same screws/bolts removed in step 2.
- Install the appropriate end of the centering pin (Fig. 14) to the router collet. (Follow your router manufacturer's instructions for this step.)



- Install the provided TurnLock Bushing (Fig. 15) on to the Base Plate by twisting into the TurnLock opening in the center of the base.
- With the base plate in contact with the centering pin (Fig. 16), adjust as needed to center the TurnLock Bushing on the centering pin.
- When centered, secure the base plate (fig. 17) into position by tightening the appropriate screws/bolts. Remove the TurnLock bushing from the base plate by twisting out of the TurnLock mechanism.

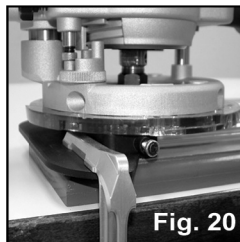


- Remove the centering pin (Fig. 18) from the router collet. (Follow your router manufacturer's instructions for this step.)
- Your TurnLock Router Base Plate is now installed and centered. To use, simply twist desired Bushing into place. Follow router manufacturer's guidelines for proper router operation.



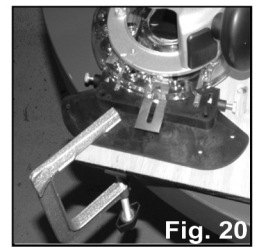
USING SIGN MAKER

- You can rout a sign using most popular routers with provided guide bushings and base plate. **Use a 7/16 in. bushing with 1/4 in. diameter or smaller router bit when routing small letters.** Note: Short 7/16 in. bushings such as those designed for use with Dovetail kits are not long enough and will destroy templates if used. Use 5/8 in. bushings with 1/2 in. or smaller router bit when routing large letters.

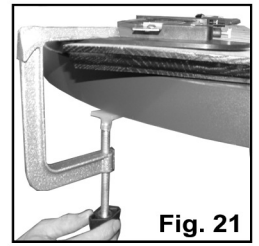


- Locate the first letter at the spot where you want the sign to start. Make sure the rails are parallel with work board.
- Once the templates are in the desired position, use the included low profile c-clamps (Fig. 19) on the large flat area of the end cap to ensure the clamp does not obstruct the movement of the router (Fig. 20).
- Clamp the end caps and the work piece to the work surface. (Fig. 21 & 22)

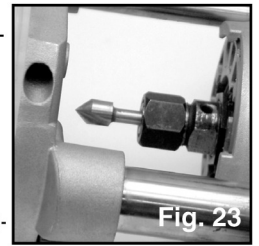
- Review the safety rules in router owners' manual. Disconnect your electrical source and install router bushing and router bit (Fig. 23). Set router bit 11/16 in. below router base; this will give 3/32 in. deep engraving.



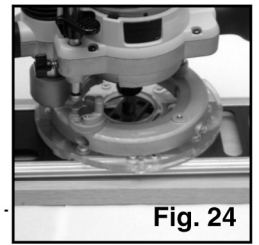
- If using a fixed based router: Lower router bushing into letter opening (Fig. 24). With bushing in contact with inside of letter opening and Router bit above wood (NOT TOUCHING), start router motor. Lower bit into wood until router base is resting on both rails. The router bushing traces around the letter opening. When the letter is complete, turn router off. When motor stops, remove router. Proceed to engrave all letters in the template assembly.



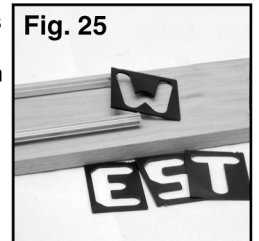
- If using a plunge router: Lower router bushing into letter opening (Fig. 24). With bushing in contact with inside of letter opening and Router bit above wood (NOT TOUCHING), start router motor. Lower bit into wood. The router bushing traces around the letter opening. When the letter is complete, raise router bit. Stop the router motor. Proceed to engrave all letters in the template assembly.



- If your sign requires another tray of letters, remove one end cap (Fig. 25) and take out the letters just routed. Fill the letter guide with the next group of letters and replace the end cap. Repeat steps 2-4 above to ensure correct placement.



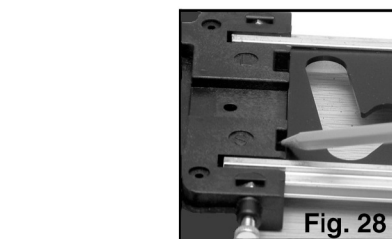
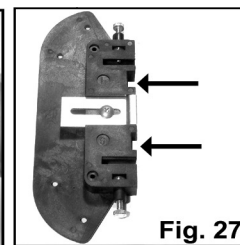
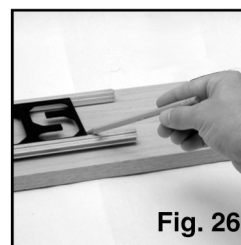
- Loosen work clamp screws (Fig. 26) and lift letter template assembly off work piece. Draw a light pencil line at the right edge of last letter just routed, as a spacing witness line.



- Relocate the letter template assembly on the work piece filled with the next set of letters to be routed. In the end frame, there are two spacing slots (Fig. 27) between the letter guides. One is marked with an S for small letters, the other an L for large letters.

- Slide the letter template assembly (Fig. 28) until the pencil line is in line with the spacing slot. Retighten the guide clamp screws. Proceed to rout.


- Also included are vertical number templates (Fig. 29).




PRODUCT CONTENTS

	Description	Quantity
	7" TurnLock™ Base Plate	1
	18 in. rails	4
	End caps	2
	Support bridges	2
	Rail joiners	2
	Coarse Thread Mounting Screws (Black)	3
	Fine Thread Mounting Screws (Silver)	3
	Metal Nosed TurnLock™ bushings (7/16 in. and 5/8 in.)	2
	Centering pin	1
	Core box router bit (3/8in. and 1/4in.)	2


2-1/2 in. templates:
4 of letters A, E, I, O; 2 of all other letters,
2 of number 1-9




1-1/2 in. templates:
4 of letters A, E, I, O; 2 of all other letters,
2 of number 1-9, 2 blanks

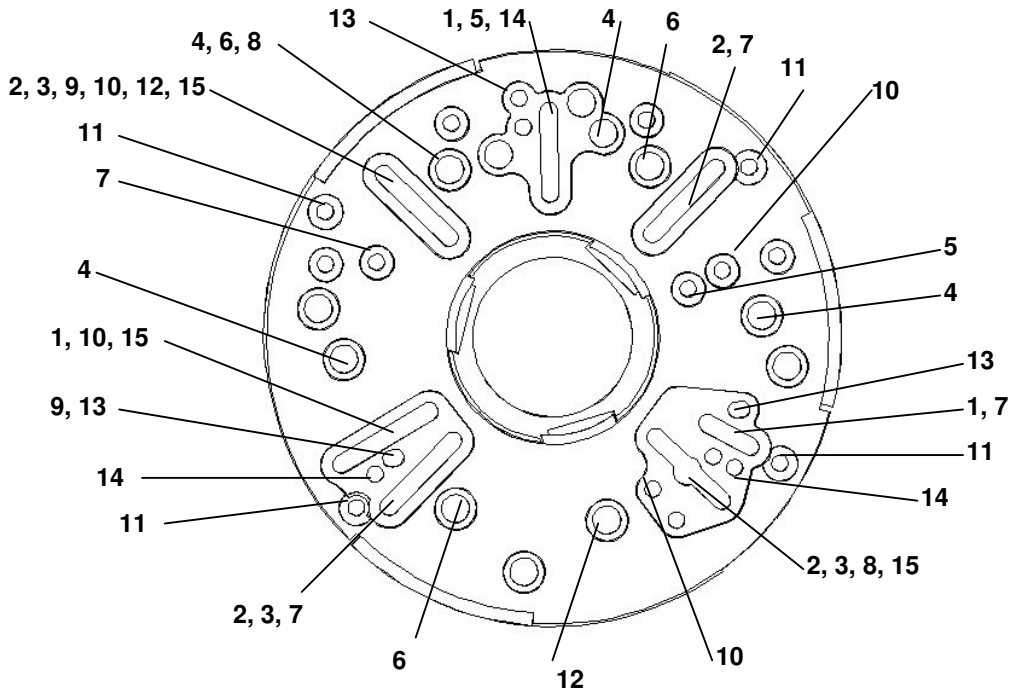


2-1/2 in. templates: (Vertical Numbers)
2 of number 0-9



1-1/2 in. templates: (Vertical Numbers)
2 of number 0-9





1	Skil	1810-01, 1815-04, 1820-04, 1823, 1825-04, 1840, 1845-02	7	DeWalt	DW621
1	Craftsman	(315.) 175020, 175040, 175050, 175070, 17574 (09) 17511, 17515, 17528, 17533, 26834	8	Ryobi	RE180PL
1	Porter Cable	PC690, PC7529, PC8529, PC890, PC893PK	9	Bosch	PO600
1	DeWalt	DW618, DW610	9	Dremel	963-01 («Advantage» Plunge Base)
1	Black&Decker	RP400	10	Festool	900, 1000, 1010
1	Milwaukee	5615-29, 5615-21, 5616, 5619	11	Hitachi	M12V
1	Bosch	1604, 1618	12	DeWalt	DW625
1	Hitachi	M12VC	12	Fein	FT-1800
1	Freud	FT1700	12	ELU	177
1	Rigid	2900 Series	13	Bosch	1613EVS
2	DeWalt	DW616	14	Bosch	1617
2	Craftsman Pro	26835	15	Ryobi	RE600
2	Makita	3606			
2	Freud	FT2000E			
2	Triton	TRC001			
3	Craftsman	27500			
4	Craftsman	(315.)275.000			
5	Porter Cable	PC7310 (Laminate Trimmer)			
6	Ryobi	R161			

This is not intended to demonstrate all possible routers that can be used with the Milescraft base plate. Other routers not listed may fit using varied combinations of holes and slots.

- In some instances shown above, NOT ALL holes in a router's base will match the mounting pattern.
- Only 2 holes matched to a router's base are required (as a minimum) for proper installation and operation.
- You may decide to modify an existing hole or slot or add a hole(s) to better suit your router.
- The screws supplied may not fit your router. If you supply your own screws, DO NOT use "counter sink head" styles.
- Check our website... www.milescraft.com for possible revisions.
- 7 in. Base Plate is included in most Milescraft® TurnLock™ router products.
(e.g. 1203 Circle/Edge Guide, 1205 Offset Base, 1206 SignCrafter, 1212 SignPro, 1207 Design/Inlay Kit)

A note about TurnLock™ Guide Bushings:

- Your TurnLock™ Guide Bushings are injection molded parts and designed for a "snug fit".
- Upon first use, you may find the fit to be somewhat tight.
If this is the case: work the bushing back and forth in the base to "seat" and "work fit" the bushing.

