Instruction manual

Dovetail Fixture/Jig

ESPAÑOL: PÁGINA 15 FRANÇAISE : PAGE 29

MODEL **4112** Includes ½" Half-Blind **4113** Dovetail Templet

MODEL **4114**For ¹/₄" Half-Blind
Dovetails



MODEL **4115**For ½" Box Joints



IMPORTANT

Please make certain that the person who is to use this equipment carefully reads and understands these instructions before starting operations.

The Model and Serial No. plate is located on the main housing of the tool. Record these numbers in the spaces below and retain for future reference.
Model No
Type
Serial No

To learn more about Porter-Cable visit our website at:

http://www.porter-cable.com



SAFETY GUIDELINES - DEFINITIONS

This manual contains information that is important for you to know and understand. This information relates to protecting YOUR SAFETY and PREVENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use the symbols to the left. Please read the manual and pay attention to these sections.

ADANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

AWARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

ACAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

Used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, may result in property damage.

IMPORTANT SAFETY INSTRUCTIONS

AWARNING Read and understand all instructions. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS.

AWARNING There are certain applications for which this tool was designed. Porter-Cable strongly recommends that this tool NOT be modified and/or used for any application other than for which it was designed. If you have any questions relative to its application DO NOT use the tool until you have written Porter-Cable and we have advised you.

Technical Service Manager Porter-Cable Corporation 4825 Highway 45 North Jackson, TN 38305

1. KEEP WORK AREA CLEAN. Cluttered areas and benches invite injuries.

CAUTION

- AVOID DANGEROUS ENVIRONMENT. Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep area well lit. Avoid chemical or corrosive environment. Do not use tool in presence of flammable liquids or gases.
- **3. GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example: pipes, radiators, ranges, refrigerator enclosures.
- KEEP CHILDREN AWAY. Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.
- 5. STORE IDLE TOOLS. When not in use, tools should be stored in dry, and high or locked-up place out of reach of children.
- 6. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was intended.
- 7. **USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy duty tool. Don't use tool for purpose not intended for example do not use a circular saw for cutting tree limbs or logs.
- 8. DRESS PROPERLY. Do not wear loose clothing or jewelry. Loose clothing, draw strings and jewelry can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- 9. USE ANSI Z87.1 SAFETY GLASSES. Wear safety glasses or goggles while operating power tools. Also face or dust mask if operation creates dust. All persons in the area where power tools are being operated should also wear safety glasses and face or dust mask.
- 10. DON'T ABUSE CORD. Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges. Have damaged or worn power cord and strain reliever replaced immediately. DO NOT ATTEMPT TO REPAIR POWER CORD.
- **11. SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
- **12. DON'T OVERREACH.** Keep proper footing and balance at all times.
- 13. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Have all worn, broken or lost parts replaced immediately. Keep handles dry, clean and free from oil and grease.
- 14. DISCONNECT TOOLS when not in use, before servicing, and when changing accessories such as blades, bits, cutters, etc.
- **15. REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

- **16. AVOID UNINTENTIONAL STARTING.** Do not carry a plugged-in tool with finger on switch. Be sure switch is off when plugging in. Keep hands, body and clothing clear of blades, bits, cutters, etc. when plugging in the tool.
- **17. OUTDOOR USE EXTENSION CORDS.** When tool is used outdoors, use only extension cords marked "Suitable for use with outdoor appliances store indoors when not in use." If an extension cord is to be used outdoors it must be marked with the suffix W-A or w following the cord type designation.
- **18. STAY ALERT.** Watch what you are doing. Use common sense. Do not operate tool when you are tired or while under the influence of medication, alcohol or drugs.
- 19. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine 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 by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Do not use tool if switch does not turn it on and off.
- 20. WEAR ANSI S3.19 EAR PROTECTION to safeguard against possible hearing loss.

SAVE THESE INSTRUCTIONS

ADDITIONAL SAFETY RULES

AWARNING FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY.

- 1. **READ AND FOLLOW ALL SAFETY INSTRUCTIONS** in the instruction manual supplied with your router.
- 2. SECURE WORK. Be sure Dovetail Fixture/Jig and work is anchored securely to prevent movement.
- 3. BE SURE CORD SET IS FREE and will not hang up during routing operations.
- **4. KEEP HANDS CLEAR** of cutter when motor is running to prevent personal injury.
- 5. MAINTAIN FIRM GRIP on router when starting motor to resist starting torque.
- 6. STAY ALERT and keep cutter free, clear of all foreign objects while motor is running.
- 7. **BE SURE MOTOR HAS COMPLETELY STOPPED** before removing router from Dovetail Fixture/Jig and setting Dovetail Fixture/Jig down between operations.
- 8. **NEVER REMOVE ROUTER MOTOR** from router base while templet guide and dovetail bit are installed. Dovetail bit may not fit through hole in templet guide.
- 9. TIGHTEN TEMPLET GUIDE LOCKNUT SECURELY.
- 10. SOME WOOD CONTAINS PRESERVATIVES WHICH CAN BE TOXIC. Take extra care to prevent inhalation and skin contact when working with these materials. Request, and follow, any safety information available from your material supplier.

REPLACEMENT PARTS

When servicing use only identical replacement parts.

FOREWORD

Porter-Cable Base **Model 4112** Dovetail Fixture/Jig together with a Porter-Cable router, templets, templet guides and router bits, can be used to produce the following types of joints for drawers and boxes.

1/2" Half-Blind Dovetails

1/2" Half-Blind Rabbeted Dovetails

1/4" Half-Blind Dovetails

1/4" Half-Blind Rabbeted Dovetails

1/2" Box Joint

NOTICE: THE PHOTO ON THE MANUAL COVER ILLUSTRATES THE CURRENT PRODUCTION MODEL. ALL OTHER ILLUSTRATIONS CONTAINED IN THE MANUAL ARE REPRESENTATIVE ONLY AND MAY NOT DEPICT THE ACTUAL COLOR, LABELING OR ACCESSORIES AND ARE INTENDED TO ILLUSTRATE TECHNIQUE ONLY.

CAPACITY

Porter-Cable Base Model 4112 can be used with stock up to 12" wide and from 7/16" to 1" in thickness.

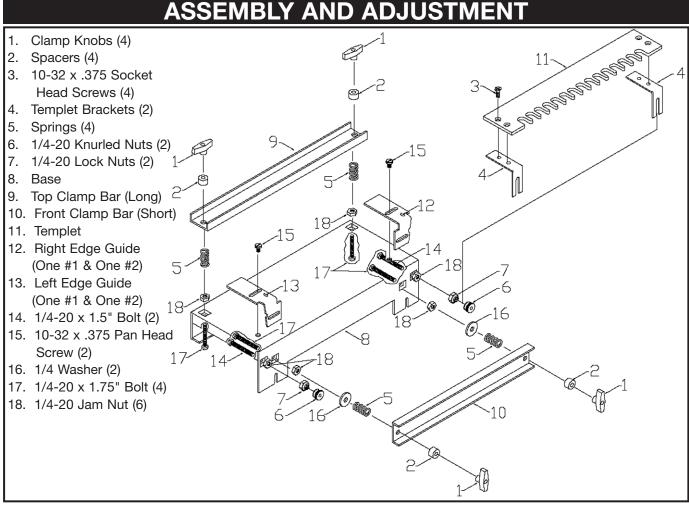


Fig. 1

NOTE: Refer to Fig. 1 for the various parts of the Model 4112 Dovetail Fixture/Jig.

- 1. Insert jam nuts, item 18, into each of the outside recessed areas on front of the base, item 8. Thread bolts, item 14, into each jam nut and tighten firmly.
- 2. Insert the remaining jam nuts, item 18, into the remaining recessed areas on the front and top of base, item 8. Thread bolt, item 17, into jam nut and tighten firmly.
- 3. Thread locknuts, item 7, on bolts, item 14 up to the jam nuts and tighten firmly.
- 4. Thread on knurled nuts, item 6, on bolts, item 14 up to the locknuts and tighten firmly.
- 5. Select the edge guide to be used, either #1 for half-blind dovetails or #2 half-blind rabbeted dovetails. Place right and left edge guides, items 12 and 13, on base, item 8, and assemble with screws, item 15. Slide edge guides to end of base. Do not tighten at this time.
- 6. To install top clamp bar item 9, place springs item 5 on bolts, item 17, followed by the top clamp bar then spacers, item 2. Retain assembly with clamp knobs, item 1.
- 6A.To install front clamp bar item 10, place washers item 16 (used on front bar only) on bolts item 17. Add springs item 5, on bolts, item 17, followed by the front clamp bar then spacers, item 2. Retain assembly with clamp knobs, item 1. **NOTE:** When clamping material thicker than ¾", the spacers, item 2, will need to be removed.
- 7. Attach templet, item 11, to templet brackets, item 4, with templet retaining screws, item 3.
- 8. Insert assembled templet between locknuts, item 7, and knurled nuts, item 6.
- 9. The completely assembled Dovetail Fixture/Jig should be securely mounted to a sturdy bench or stand to prevent movement during routing operations. Slots are provided in the front and back of the base for this purpose.

ADJUSTING TEMPLET LOCATION

Front to back positioning of the templets is accomplished by varying the location of the locknuts (item 7, Fig. 1).

ADJUSTING EDGE GUIDE LOCATION

- Remove templet from Dovetail Fixture/Jig. NOTE: DO NOT UNCLAMP DRAWER FRONT.
- 2. Loosen edge guide retaining screw, (item 15, Fig. 1) and slide edge guide to drawer front and secure in place.
- 3. Replace templet.

IDENTIFYING DRAWER PARTS

It is recommended that scrap lumber be used when making your first dovetail cut so all adjustments and fits can be checked to insure a satisfactory joint. Once the templet and router have been set up to rout a satisfactory dovetail joint, any number of joints can be made.

1. Arrange the drawer front and side pieces as shown in Fig. 2.

NOTE: Ends of front and side pieces must be cut square with the length of the pieces to produce good dovetail joints.

2. Mark the "outside", "inside" and "ends" of each piece as shown in Fig. 2.

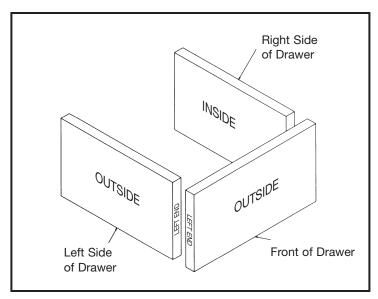


Fig. 2

1/2" HALF-BLIND DOVETAILS

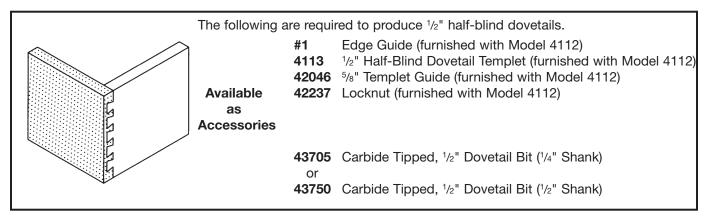


Fig. 3

PREPARING ROUTER

- 1. AWARNING DISCONNECT ROUTER FROM POWER SOURCE.
- 2. Insert templet guide, (A) Fig. 4, in hole (B), in router sub-base (C).
- 3. Install templet guide locknut (D) on templet guide and firmly tighten to lock templet guide in sub-base.
- 4. Insert dovetail bit, (A) Fig. 5, through templet guide into router collet.
- 5. Adjust router so dovetail bit projection (B) from bottom of router sub-base (C), is 9/16".

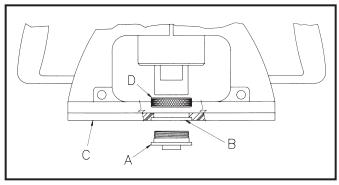


Fig. 4

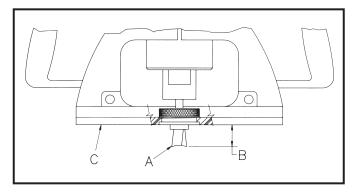


Fig. 5

CLAMPING DRAWER PARTS

1. Temporarily clamp the left side of the drawer "inside out" under front clamp bar and extending approximately 1/4" above top surface of the base as shown in Fig. 6.

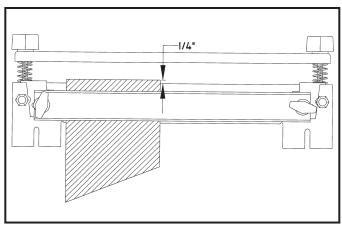


Fig. 6

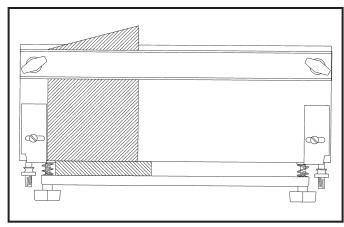


Fig. 7

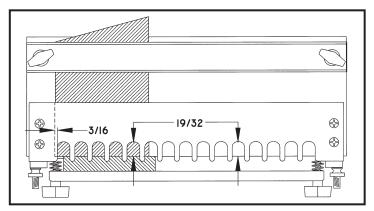


Fig. 8

- 2. Place drawer front "inside up" under top clamp bar and against side of drawer which is extending above surface of Dovetail Fixture/Jig.
- 3. Place the ½" half-blind dovetail templet on top of the drawer front. Using a standard scale or ruler, adjust locknuts, item 7, Fig. 1, so there is ½½" from back of templet slots to edge of drawer front at both ends of templet (see Fig. 8). Tighten knurled nuts, item 6, Fig. 1, to secure templet in place.
- 4. Loosen top clamp bar and position drawer front so that the left edge is 3/16" (see Fig. 8) past the left edge of the first templet slot and clamp in place.
- 5. Remove ½" half-blind dovetail templet (DO NOT LOOSEN TOP CLAMP BAR) and locate #1 edge guide against drawer front, secure in place and replace ½" half-blind dovetail templet and secure it in place.
- 6. Loosen front clamp bar and raise side of drawer so that it is in contact with the underside of the templet and against the edge guide. Tighten front clamp bar securely.

ROUTING DOVETAILS

AWARNING DISCONNECT ROUTER FROM POWER SOURCE.

- 1. Be sure router motor is "off" and plug into power source.
- 2. Set router squarely on finger templet to the right of drawer pieces.
- 3. Make sure bit is clear of work and will not strike Dovetail Fixture/Jig base.
- 4. Start the motor and make the first cut along the entire outside edge of the finger templet, from right to left, in the direction of the arrow (A) Fig. 9. This will prevent chipping of the edge of the drawer piece when the router is moved in and out of the templet.
- 5. Now, carefully move the router from left to right around the templet outline, in and out of the slots as shown by arrow (B) Fig. 9.
- 6. Next, examine the drawer pieces to make sure they have been cleanly routed. See Fig. 10.

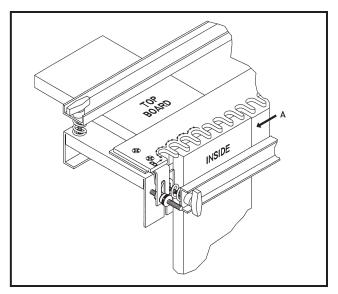


Fig. 9

- 7. Remove drawer pieces and fit together, matching dovetail (A) with slot (B), Fig. 10. If **joint is loose**, slightly **increase depth** of cut. If **joint is tight**, slightly **decrease depth** of cut. The bit is raised or lowered by adjusting the router motor in the router base with the motor "off".
- 8. After obtaining a snug dovetail, assemble parts and check the relation of the end of the drawer front to the side of the left side of the drawer. If the drawer **front overhangs** side of drawer, **decrease** ¹⁹/₃₂" dimension in step 3 under CLAMPING DRAWER PARTS. If **side of drawer overhangs** front, **increase** ¹⁹/₃₂" dimension.

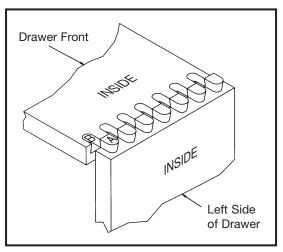


Fig. 10

- 9. Fig. 11 shows both the left and right corner of a drawer fitted together after they were both routed from the left end of the templet. Note the location of partial pins on drawer sides.
- 10. If for appearance reasons the partial pins are desired to be in the same location of both sides of the drawer as shown in Fig. 12, then rout the right end of the drawer front and right side of the drawer on the right end of the templet. Adjust the edge guide the same as those on the left (mirror image).

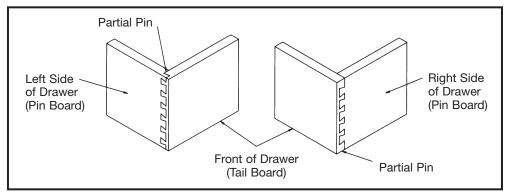


Fig. 11

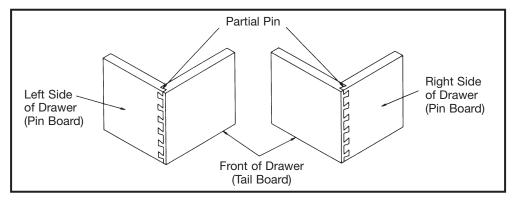


Fig. 12

1/4" HALF-BLIND DOVETAILS

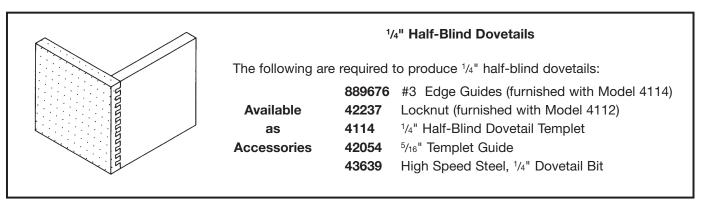


Fig. 13

PREPARING ROUTER

Prepare router the same as for $^{1}/_{2}$ " half-blind dovetails except install 42054 templet guide, 43639 bit, and adjust depth of cut (B) Fig. 5 to $^{9}/_{16}$ ".

CLAMPING DRAWER PARTS

Drawer parts are clamped in the same manner as those for 1/2" half-blind dovetails except for the following:

- 1. Position the ¹/₄" half-blind dovetail templet so that there is ⁹/₃₂" from back of templet slots to edge of drawer front (see Fig. 14).
- 2. Position drawer front so the left edge is 1/8" (see Fig. 14) past the left edge of the first templet slot.
- 3. Locate #3 edge guide against drawer front.

ROUTING DOVETAILS

Route dovetails and check for fit the same as those for 1/2" half-blind dovetails.

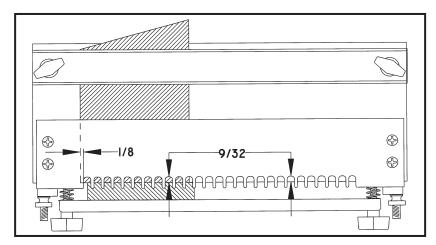
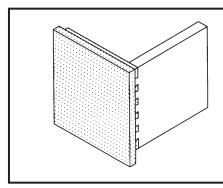


Fig. 14

1/2" AND 1/4" HALF-BLIND RABBETED DOVETAILS



Half-Blind Rabbeted Dovetails

The same accessories are required as those for $^{1}/_{2}$ " and $^{1}/_{4}$ " Half-Blind Dovetails except for the edge guides.

Use **#2 Edge Guide** for ½" Rabbeted Dovetails (furnished with Model 4112) Use **#4 Edge Guide** for ¼" Rabbeted Dovetails (furnished with Model 4114)

Fig. 15

PREPARING ROUTER

Prepare router the same as that for 1/2" or 1/4" half-blind dovetails depending on size to be cut.

PREPARING DRAWER FRONT

The drawer front should be $^3/_4$ " longer and $^3/_4$ " wider than the drawer size required and have a $^3/_8$ " x $^7/_{16}$ " deep rabbet cut completely around the inside of the drawer front.

NOTE: Maximum depth of drawer is 10⁵/₈", for ¹/₂" rabbeted dovetails.

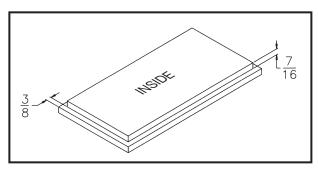


Fig. 16

CLAMPING DRAWER PARTS AND ROUTING DOVETAILS

Parts are clamped and routed much in the same manner as those for half-blind dovetails, except the location of the drawer front must be adjusted to allow for the rabbet, and FRONT AND SIDES OF DRAWER MUST BE ROUTED SEPARATELY.

- 1. Position drawer front "inside up" on top of Dovetail Fixture/Jig maintaining dimensions to templet shown in Fig. 17. A gauge block with a 3/8" rabbet may be used to position drawer front as shown in Fig. 17A.
- 2. Locate either #2 or #4 edge guide, depending on size of dovetail to be cut, to edge of drawer front.
- 3. Drawer front may now be routed.
- 4. Remove drawer front and locate drawer side against edge guide in the same manner as that for ½" half-blind dovetails.

NOTE: A backup piece should be used in place of the drawer front to prevent tear-out when routing sides of drawer.

5. Route drawer side and check for fit the same as for 1/2" half-blind dovetails.

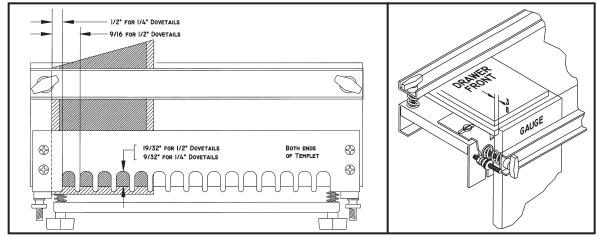


Fig. 17

Fig. 17A

1/2" BOX JOINTS

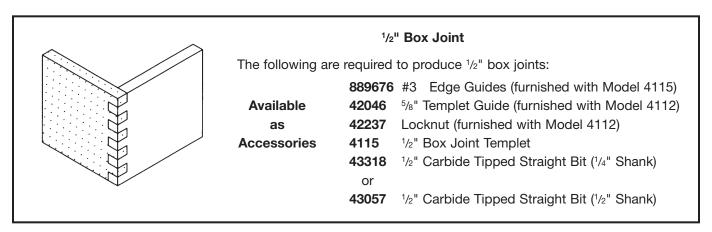


Fig. 18

NOTE: Any material up to ¹³/₁₆" thick can be joined together with box joints.

PREPARING ROUTER

Prepare router the same as for ½" half-blind dovetails except install ½" straight bit and adjust depth of cut, (B) Fig. 5, equal to ¼" plus thickness of material to be joined.

CLAMPING BOX PARTS

NOTE: All box joint cuts are made with the box parts clamped to the front of the Dovetail Fixture/Jig.

- 1. Install #3 edge guides to Dovetail Fixture/Jig and slide to end of base, do not tighten at this time.
- 2. Place a piece of scrap material, that is approximately 1/4" thicker and at least as wide as the boards to be joined, under the top clamp and flush with front of Dovetail Fixture/Jig.
- 3. Place the box joint templet on top of the scrap material and adjust so there is about 3/8" (Fig. 19) from back of templet slot to edge of scrap material at both ends of templet.
- 4. Mark center of board to be routed (see Fig. 20). Place board under front clamp, against bottom of box templet. Locate the board center mark 1/16" to the right of the templet finger slot that is closest to the left end of the templet (see Fig. 20).
- 5. Slide edge guide to the right against board to be routed and secure in place.

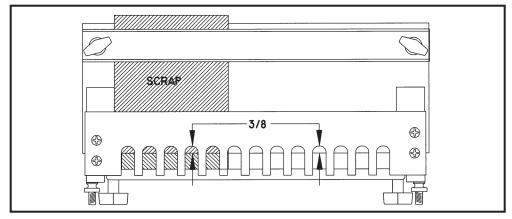
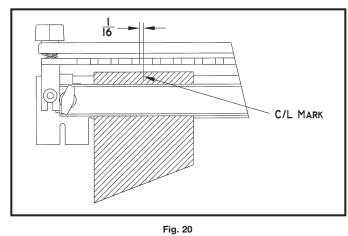


Fig. 19

ROUTING BOX JOINTS

- 1. Before turning on router, place it on templet and make sure bit will not hit Dovetail Fixture/Jig as it cuts into scrap material.
- Carefully rout box joints.
- 3. Loosen front clamp, rotate material as shown in Fig. 21 and position up against templet and edge guide. Clamp securely in place and rout other end.



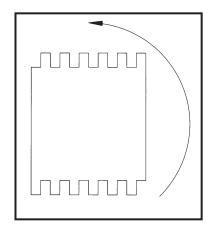


Fig. 21

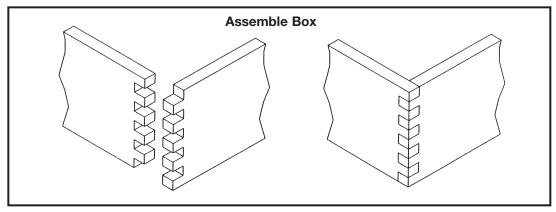


Fig. 22

MAINTENANCE

KEEP TOOL CLEAN

Periodically blow out all air passages with dry compressed air. Clean all plastic parts with a soft damp cloth. NEVER use solvents to clean plastic parts. They could possibly dissolve or otherwise damage the material.

ACAUTION WEAR ANSI Z87.1 SAFETY GLASSES WHILE USING COMPRESSED AIR.

SERVICE AND REPAIRS

All quality tools will eventually require servicing or replacement of parts due to wear from normal use. These operations, including brush inspection and replacement, should ONLY be performed by either an AUTHORIZED PORTER-CABLE SERVICE STATION or a PORTER-CABLE DELTA FACTORY SERVICE CENTER. All repairs made by these agencies are fully guaranteed against defective material and workmanship. We cannot guarantee repairs made or attempted by anyone other than these agencies.

Should you have any questions about your tool, feel free to write us at any time. In any communications, please give all information shown on the nameplate of your tool (model number, type, serial number, etc.).

ACCESSORIES

A complete line of accessories is available from your Porter-Cable Delta Supplier, Porter-Cable Delta Factory Service Centers, and Porter-Cable Authorized Service Stations. Please visit our Web Site www.porter-cable.com for a catalog or for the name of your nearest supplier.

▲WARNING

Since accessories other than those offered by Porter-Cable Delta have not been tested with this product, use of such accessories could be hazardous. For safest operation, only Porter-Cable Delta recommended accessories should be used with this product.

PORTER-CABLE LIMITED ONE YEAR WARRANTY

Porter-Cable warrants its Professional Power Tools for a period of one year from the date of original purchase. We will repair or replace at our option, any part or parts of the product and accessories covered under this warranty which, after examination, proves to be defective in workmanship or material during the warranty period. For repair or replacement return the complete tool or accessory, transportation prepaid, to your nearest Porter-Cable Service Center or Authorized Service Station. Proof of purchase may be required. This warranty does not apply to repair or replacement required due to misuse, abuse, normal wear and tear or repairs attempted or made by other than our Service Centers or Authorized Service Stations.

ANY IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WILL LAST ONLY FOR ONE (1) YEAR FROM THE DATE OF PURCHASE.

To obtain information on warranty performance please write to: PORTER-CABLE CORPORATION, 4825 Highway 45 North, Jackson, Tennessee 38305; Attention: Product Service. THE FOREGOING OBLIGATION IS PORTER-CABLE'S SOLE LIABILITY UNDER THIS OR ANY IMPLIED WARRANTY AND UNDER NO CIRCUMSTANCES SHALL PORTER-CABLE BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

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Parts and Repair Service for Porter-Cable • Delta Machinery are Available at These Locations (Obtenga Refaccion de Partes o Servicio para su Herramienta en los Siguientes Centros de Porter-Cable ● Delta)

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San Leandro 94577 (Oakland) 3039 Teagarden Street Phone: (510) 357-9762 Fax: (510) 357-7939

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