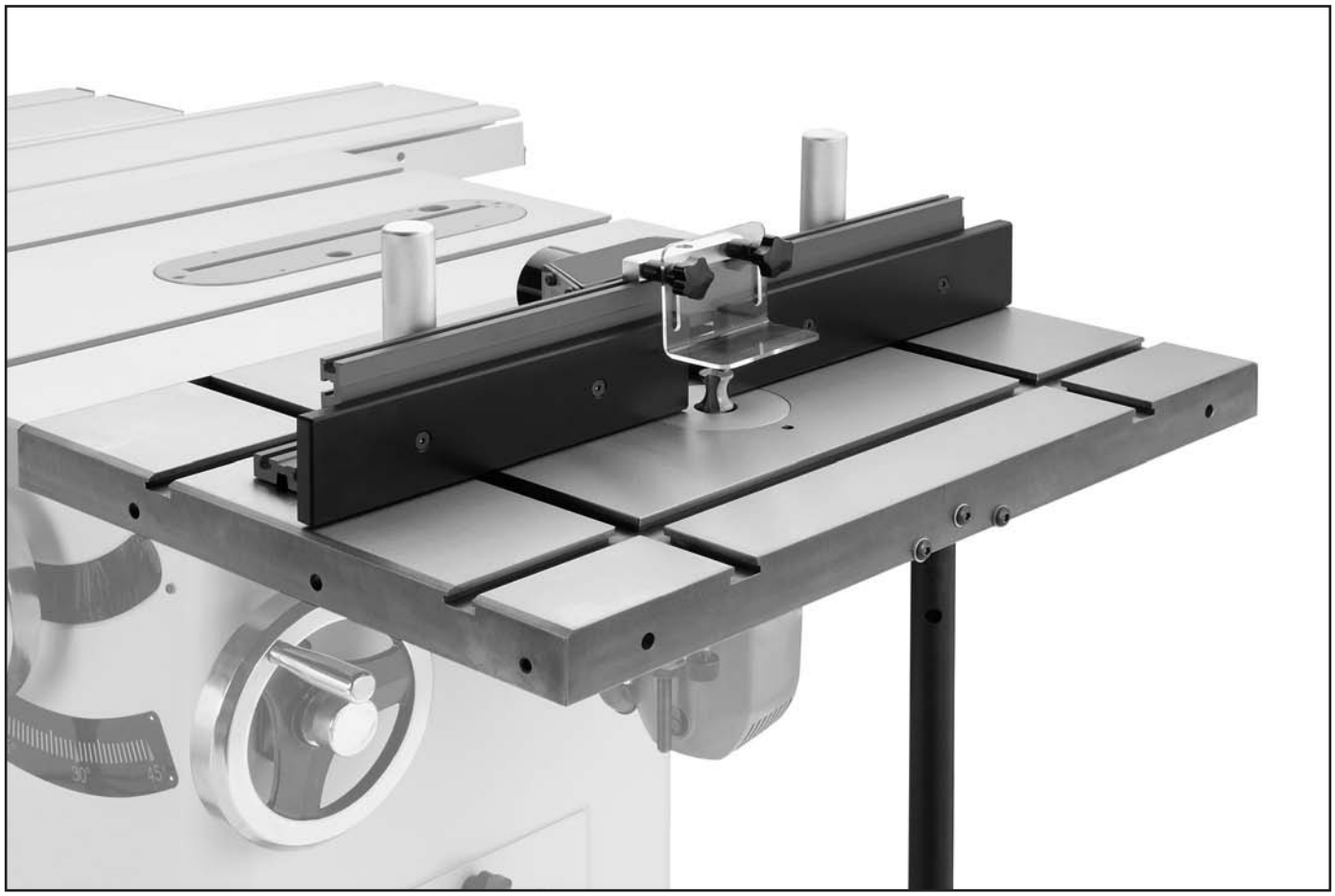
MODEL T10222
ROUTER TABLE ATTACHMENT
OWNER'S MANUAL



FOR MODELS MANUFACTURED SINCE 12/09 #TS13341 PRINTED IN CHINA

⚠ WARNING!

This manual provides critical safety instructions on the proper setup, operation, maintenance, and service of this machine/tool. Save this document, refer to it often, and use it to instruct other operators.

Failure to read, understand and follow the instructions in this manual may result in fire or serious personal injury—including amputation, electrocution, or death.

The owner of this machine/tool is solely responsible for its safe use. This responsibility includes but is not limited to proper installation in a safe environment, personnel training and usage authorization, proper inspection and maintenance, manual availability and comprehension, application of safety devices, cutting/sanding/grinding tool integrity, and the usage of personal protective equipment.

The manufacturer will not be held liable for injury or property damage from negligence, improper training, machine modifications or misuse.

⚠ WARNING!

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- **Lead from lead-based paints.**
- **Crystalline silica from bricks, cement and other masonry products.**
- **Arsenic and chromium from chemically-treated lumber.**

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: Work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

Table of Contents

IMPORTANT NOTICE!

Table Saw Modifications Required for Installation

The Model T10222 can be installed on most table saws that have 27" deep tables; however, installation usually requires permanent modification to your table saw or its parts. This modification may include cutting, grinding, drilling, and tapping threads in metal surfaces. Read the following to determine which type of modification may be required for your saw:

- If your saw table or wing does not have mounting holes that match those in the Model T10222, you will need to drill and tap new holes in the saw table or wing.
- If the fence rails on your saw prevent installation of the Model T10222, then you will need to either:
  —Cut off the ends of the rails (this is the easiest and fastest option).
  —Re-mount the rails farther to the left, which may also require you to drill (and possibly tap) new holes in your table and cut small notches into your rails for access to T-slots in your saw's table.

Before beginning any modification to your table saw or its parts, read the entire assembly section in this manual to make sure the person making the modification is capable of performing the required tasks, and to make sure the Model T10222 will fit your saw.

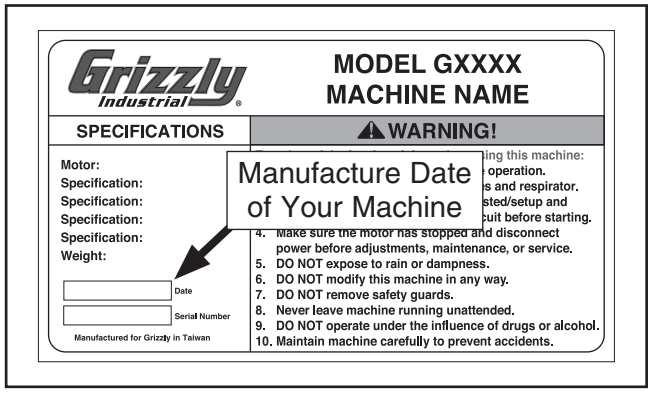
INTRODUCTION

Manual Accuracy

We are proud to offer this manual with your new machine! We've made every effort to be exact with the instructions, specifications, drawings, and photographs of the machine we used when writing this manual. However, sometimes we still make an occasional mistake.

Also, owing to our policy of continuous improvement, **your machine may not exactly match the manual**. If you find this to be the case, and the difference between the manual and machine leaves you in doubt, check our website for the latest manual update or call technical support for help.

Before calling, find the manufacture date of your machine by looking at the date stamped into the machine ID label (see below). This will help us determine if the manual version you received matches the manufacture date of your machine.



For your convenience, we post all available manuals and manual updates for free on our website at **www.grizzly.com**. Any updates to your model of machine will be reflected in these documents as soon as they are complete.

Contact Info

We stand behind our machines. If you have any service questions, parts requests or general questions about the machine, please call or write us at the location listed below.

Grizzly Industrial, Inc.
1203 Lycoming Mall Circle
Muncy, PA 17756
Phone: (570) 546-9663
E-Mail: techsupport@grizzly.com

We want your feedback on this manual. If you can take the time, please email or write to us at the address below and tell us how we did:

Grizzly Industrial, Inc.
C/O Technical Documentation Manager
P.O. Box 2069
Bellingham, WA 98227-2069
Email: manuals@grizzly.com

Tool Description

The Model T10222 Router Table Attachment mounts to most table saws that have 27" deep tables. This addition to your table saw features a universal router mount, a 20" by 27" precision-ground cast iron table with an extruded aluminum fence and a starting pin for contour shaping. The T10222 also features double-cross ¾" x ⅜" T-slots, an adjustable support leg, and a 2½" dust port.

MACHINE DATA SHEET

MODEL T10222
ROUTER TABLE ATTACHMENT

Product Dimensions:

Weight	82 lbs.
Table Size	20" x 27"

Shipping Dimensions:

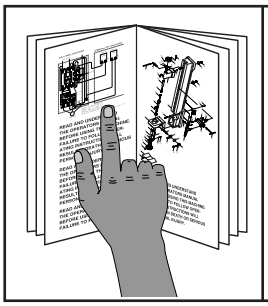
Type	Cardboard
Content	Table Saw Accessory
Weight	88 lbs.
Length/Width/Height	30" x 28" x 6"

Main Specifications:

Table Opening Size	4"
Number of Table Inserts	2
Table Insert Inside Openings	1", 2⅜"
Fence Board Size (x 2)	12½" x 2¾"
Number of T-Slots	4
T-Slot Size	¾" x ¾"
Router Base Thickness Range	¼" x 2¼"
Dust Port Size	2½"

Other Specifications:

Country Of Origin	China
Warranty	1 Year
Assembly Time	15–60 minutes



⚠WARNING

To reduce the risk of serious injury when using this tool, read and understand this entire manual before beginning any operations.

SECTION 1: SAFETY

⚠WARNING
For Your Own Safety, Read Instruction Manual Before Operating this Machine

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.

⚠DANGER **Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.**

⚠WARNING **Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.**

⚠CAUTION **Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.**

NOTICE **This symbol is used to alert the user to useful information about proper operation of the machine.**

⚠WARNING
Safety Instructions for Machinery

OWNER'S MANUAL. Read and understand this owner's manual BEFORE using machine. Untrained users can be seriously hurt.

EYE PROTECTION. Always wear ANSI-approved safety glasses or a face shield when operating or observing machinery to reduce the risk of eye injury or blindness from flying particles. Everyday eyeglasses are not approved safety glasses.

HAZARDOUS DUST. Dust created while using machinery may cause cancer, birth defects, or long-term respiratory damage. Be aware of dust hazards associated with each workpiece material, and always wear a NIOSH-approved respirator to reduce your risk.

WEARING PROPER APPAREL. Do not wear clothing, apparel, or jewelry that can become entangled in moving parts. Always tie back or cover long hair. Wear non-slip footwear to avoid accidental slips which could cause a loss of workpiece control.

HEARING PROTECTION. Always wear hearing protection when operating or observiing loud machinery. Extended exposure to this noise without hearing protection can cause permanent hearing loss.

MENTAL ALERTNESS. Be mentally alert when running machinery. Never operate under the influence of drugs or alcohol, when tired, or when distracted.

⚠WARNING

DISCONNECTING POWER SUPPLY. Always disconnect machine from power supply before servicing, adjusting, or changing cutting tools (bits, blades, cutters, etc.). Make sure switch is in OFF position before reconnecting to avoid an unexpected or unintentional start.

APPROVED OPERATION. Untrained operators can be seriously hurt by machinery. Only allow trained or properly supervised people to use machine. When machine is not being used, disconnect power, remove switch keys, or lock-out machine to prevent unauthorized use—especially around children. Make workshop kid proof!

DANGEROUS ENVIRONMENTS. Do not use machinery in wet or rainy locations, cluttered areas, around flammables, or in poorly-lit areas. Keep work area clean, dry, and well-lighted to minimize risk of injury.

ONLY USE AS INTENDED. Only use machine for its intended purpose. Never modify or alter machine for a purpose not intended by the manufacturer or serious injury may result!

USE RECOMMENDED ACCESSORIES. Consult this owner's manual or the manufacturer for recommended accessories. Using improper accessories will increase the risk of serious injury.

CHILDREN & BYSTANDERS. Keep children and bystanders a safe distance away from work area. Stop using machine if children or bystanders become a distraction.

REMOVE ADJUSTING TOOLS. Never leave adjustment tools, chuck keys, wrenches, etc. in or on machine—especially near moving parts. Verify removal before starting!

SECURING WORKPIECE. When required, use clamps or vises to secure workpiece. A secured workpiece protects hands and frees both of them to operate the machine.

FEED DIRECTION. Unless otherwise noted, feed work against the rotation of blades or cutters. Feeding in the same direction of rotation may pull your hand into the cut.

FORCING MACHINERY. Do not force machine. It will do the job safer and better at the rate for which it was designed.

GUARDS & COVERS. Guards and covers can protect you from accidental contact with moving parts or flying debris. Make sure they are properly installed, undamaged, and working correctly before using machine.

NEVER STAND ON MACHINE. Serious injury or accidental contact with cutting tool may occur if machine is tipped. Machine may be damaged.

STABLE MACHINE. Unexpected movement during operations greatly increases the risk of injury and loss of control. Verify machines are stable/secure and mobile bases (if used) are locked before starting.

AWKWARD POSITIONS. Keep proper footing and balance at all times when operating machine. Do not overreach! Avoid awkward hand positions that make workpiece control difficult or increase the risk of accidental injury.

UNATTENDED OPERATION. Never leave machine running while unattended. Turn machine ***OFF*** and ensure all moving parts completely stop before walking away.

MAINTAIN WITH CARE. Follow all maintenance instructions and lubrication schedules to keep machine in good working condition. An improperly maintained machine may increase the risk of serious injury.

CHECK DAMAGED PARTS. Regularly inspect machine for damaged parts, loose bolts, mis-adjusted or mis-aligned parts, binding, or any other conditions that may affect safe operation. Always repair or replace damaged or mis-adjusted parts before operating machine.

EXPERIENCING DIFFICULTIES. If at any time you are experiencing difficulties performing the intended operation, stop using the machine! Contact our Technical Support Department at (570) 546-9663.

⚠WARNING
Additional Safety for Router Tables

AVOIDING AMPUTATION. To avoid making contact with the spinning cutter, never place hands directly over or in front of the cutter. As one hand approaches the cutter, move it away and over to the other side. Always keep hands at least 6" away from the spinning cutter.

SECURING LEVERS AND KNOBS. Never operate the router table without first making sure that all lock levers and knobs are tight, and that all fence hardware and guide rails are secure. Otherwise, the workpiece can slip out of alignment while cutting and cause injury from kickback.

DO NOT FORCE WORKPIECE. Never force materials past the router. Let the cutter do the work. Excessive force is likely to result in poor cutting results and will cause kickback conditions that could cause serious personal injury.

APPROPRIATE WORKPIECES. The danger of kickback and injury is increased when the workpiece has knots, holes, or foreign objects in it. Warped stock should be run through a jointer before you run it through the router table.

BLIND CUTTING. Keep the cutter on the underside of the workpiece when making blind cuts. This will decrease the risk of accidental contact with the cutter.

CUTTER ROTATION. Always feed the workpiece against the rotation direction of the cutter. Otherwise, the workpiece could be aggressively pulled from your hands, drawing them into the spinning cutter.

TESTING ROTATION. With the router disconnected from power, rotate the router spindle to test any new setup to ensure proper cutter clearance before starting the router.

CUTTING SUPPORT. NEVER cut a workpiece without using a fence, jig, or miter. Otherwise, the workpiece can be grabbed by the cutter and pull your hands into the cutter.

WORKPIECE SIZING. NEVER use a workpiece shorter than six inches without special fixtures or jigs. Otherwise, the workpiece can become trapped between the fence and cutter, which could draw your hands into the spinning cutter.

CUTTER HEIGHT. Keep any unused portion of the cutter below the table surface to minimize the risk of making contact with the spinning cutter with your hands.

USING SAFETY GUARDS. To prevent amputation or other injuries, always use a guard. Fabricate additional guards or jigs for special circumstances. Use an overhead guard if the fence is removed.

TRIPPING HAZARD. To prevent tripping over the router power cord when operating the table saw, always disconnect it and safely store it out of the way.

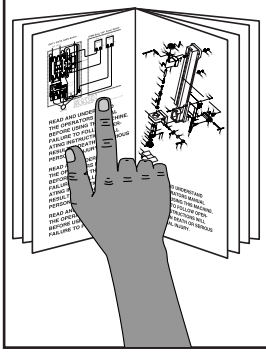
⚠WARNING

Like all machinery there is potential danger when operating this tool. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this tool with respect and caution to decrease the risk of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.

⚠CAUTION

No list of safety guidelines can be complete. Every shop environment is different. Always consider safety first, as it applies to your individual working conditions. Use this tool and other machinery with caution and respect. Failure to do so could result in serious personal injury, damage to equipment, or poor work results.

SECTION 2: SETUP



⚠WARNING

This tool presents serious injury hazards to untrained users. Read through this entire manual to become familiar with the controls and operations before using this tool!

⚠WARNING

Wear safety glasses during the entire setup process!

⚠WARNING

This tool and its components are very heavy. Get lifting help to move heavy items.

Needed for Setup

The following are needed to complete the setup process, but are not included with your tool.

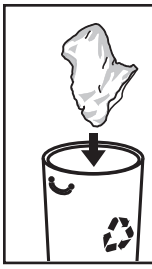
Description	Qty
• Another Person	1
• Hex Wrench 3mm	1
• Hex Wrench 5mm	1
• Hex Wrench 6mm	1
• Wrench 10mm	1
• Wrench 13mm	1
• Straightedge (at least 24" long)	1

Unpacking

Your tool was carefully packaged for safe transportation. Remove the packaging materials from around your tool and inspect the contents. If you discover the tool is damaged, *please immediately call Customer Service at (570) 546-9663 for advice.*

Save the containers and all packing materials for possible inspection by the carrier or its agent. *Otherwise, filing a freight claim can be difficult.*

When you are completely satisfied with the condition of your shipment, inventory the contents.



⚠WARNING

SUFFOCATION HAZARD!

Keep children and pets away from plastic bags or packing materials unpacked with this machine. Discard immediately.

Inventory

Refer to **Figures 3–5** and the listing below to inventory the contents of the shipping box.

	Description	Qty
A.	Router Table	1
B.	Support Leg	1
C.	Fence & Dust Hood	1
D.	Knurled Fence Handles	2
E.	T-Slot Bars	2
F.	Router Guard Bracket	1
G.	Fence Board Shim 1.5mm	1
H.	Fence Board Shim 0.7mm	1
I.	Plastic Router Guard	1
J.	Router Guard Knobs	2
K.	Support Leg Foot Pad Assembly	1
L.	Table Insert 1" ID	1
M.	Table Insert 2⅜" ID	1
N.	Starting Pin	1
O.	Dust Port 2½"	1
P.	Button Head Cap Screws M6-1 x 10	4
Q.	Flat Washers 6mm	4
R.	Mounting Screw Assemblies	3
	—Cap Screws M8-1.25 x 30	3
	—Lock Washers 8mm	3
	—Flat Washers 8mm	3
S.	Router Hold-Down Assemblies	4

If any nonproprietary parts are missing (e.g. a nut or a washer), we will gladly replace them; or for the sake of expediency, replacements can be obtained at your local hardware store.

NOTICE

If you cannot find an item on this list, check the mounting location on the machine or the packaging materials. Sometimes parts are pre-installed for shipping, or they become hidden by packaging materials.

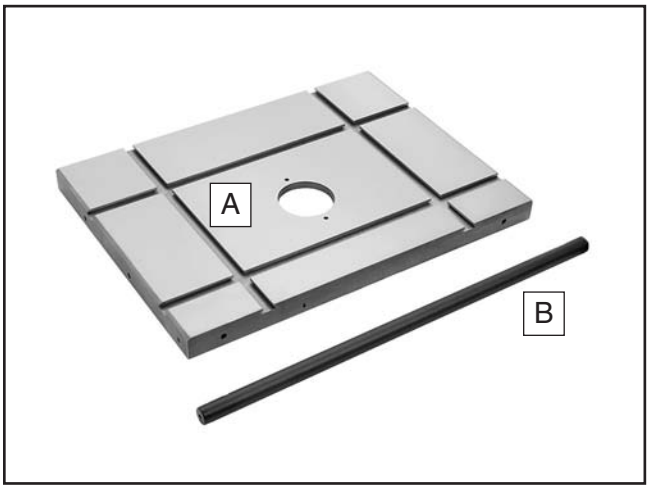


Figure 3. Shipping inventory items A–B.

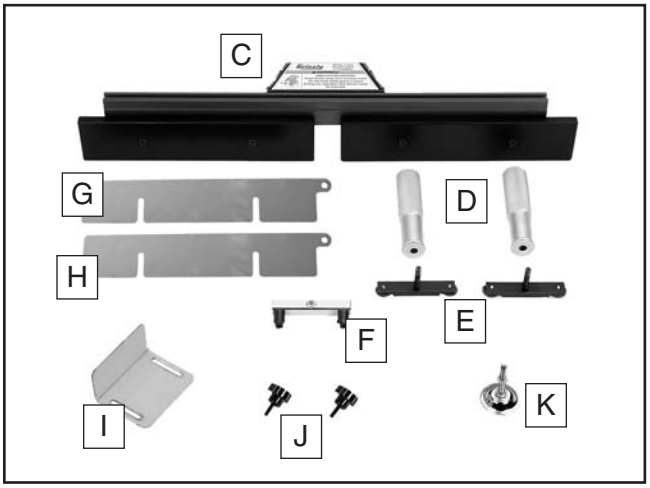


Figure 4. Shipping inventory items C–K.

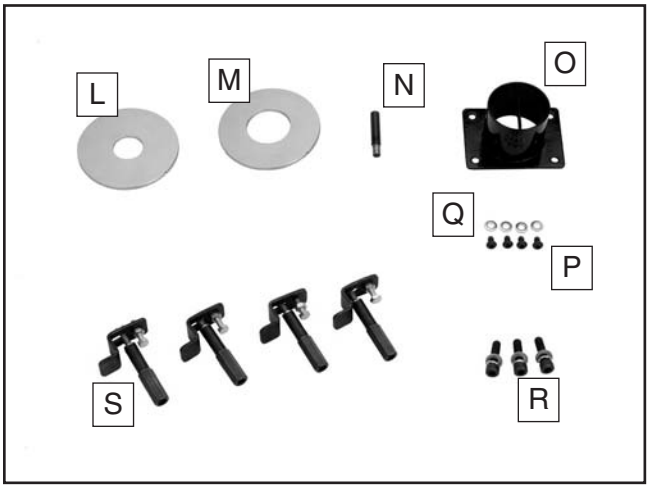


Figure 5. Shipping inventory items L–T.

Assembly

The Model T10222 mounts on most table saws that have 27" deep tables. If your table saw does not have mounting holes for the installation of the router table, you will need to drill and tap these holes. Also, you may have to modify the fence rails to allow access for the router table T-slots. Read this entire assembly section before beginning the installation procedure below to make sure the T10222 will fit your table saw.

To assemble and install your router table attachment:

1. DISCONNECT THE TABLE SAW FROM POWER!

2. Decide which of the following mounting options best suits your needs:

—Remove the existing right wing of the saw table and use the existing wing mounting holes to attach the router table.

—Mount the router table to the right side of the saw table or the existing right-hand wing. In these cases, you will probably need to drill and tap three M8-1.25 holes into the saw table or wing that match those in the router table (see **Figure 6**).

Tip: *Use the holes in the router table as a template for marking the mounting hole locations on the saw table so that the router table top will mount flush with the top of the saw table.*

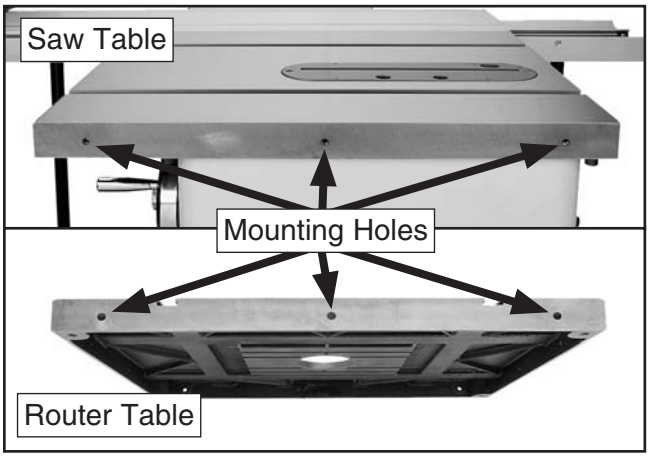


Figure 6. Required mounting holes in the router and saw tables.

3. Thread the foot pad assembly into the bottom of the support leg, as shown in **Figure 7**. For now, do not tighten the jam nut up to the leg so that you can adjust the height of the leg in a later step.

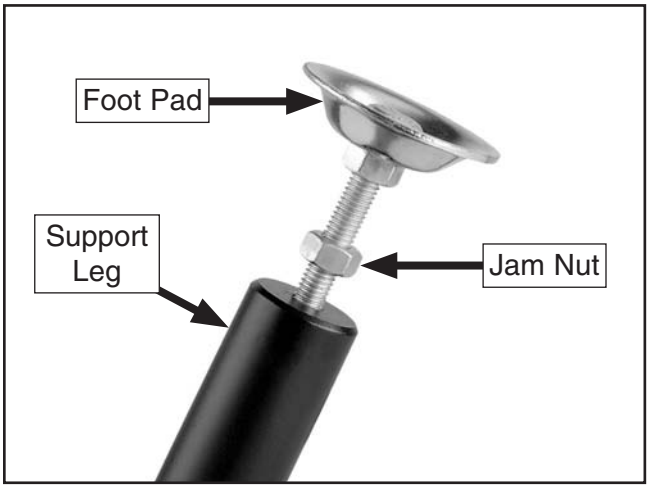


Figure 7. Foot pad threaded into the support leg.

4. Thread the support leg onto the stud located on the bottom of the router table, as shown in **Figure 8**.

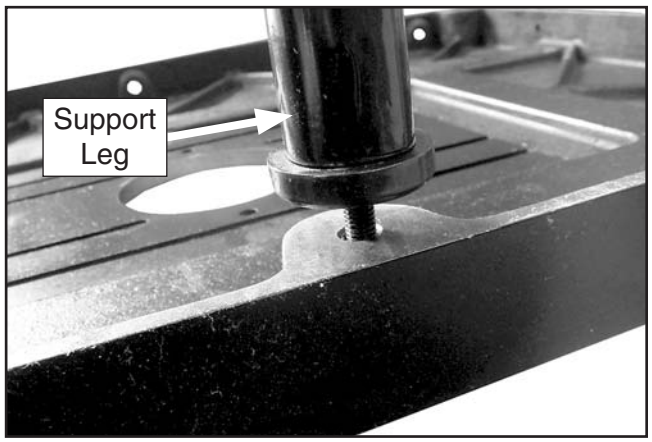


Figure 8. Support leg attached to the router table.

5. If you have long fence rails that will extend beyond the router table T-slots, you will have to modify the top of the rails. This entails making a cut-out that matches or exceeds the dimensions of the router table T-slot, as illustrate in **Figure 9**

   Also, drill mounting holes through the rails that match the holes in the side of the router table.

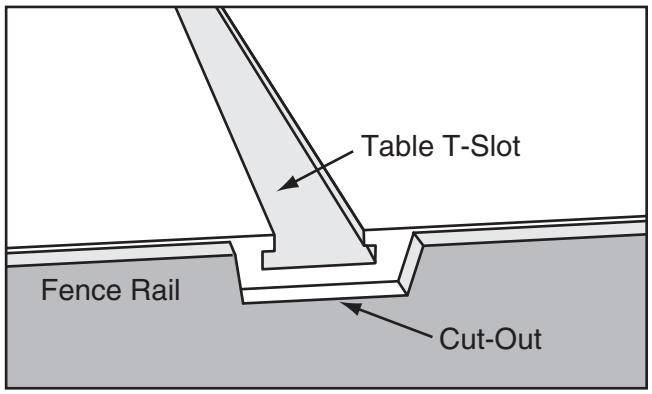


Figure 9. Example of a fence rail modification for table T-slot access.

6. With the help of another person to hold the table and leg assembly, align the mounting holes in both tables and secure them together with the (3) M8-1.25 x 30mm cap screws, (3) 8mm lock washers, and (3) 8mm flat washers, as shown in **Figure 10**.

   —If you have fence rails that extend beyond the saw table and across the router table, use the mounting holes you drilled in **Step 5** to fasten the rails to the router table.

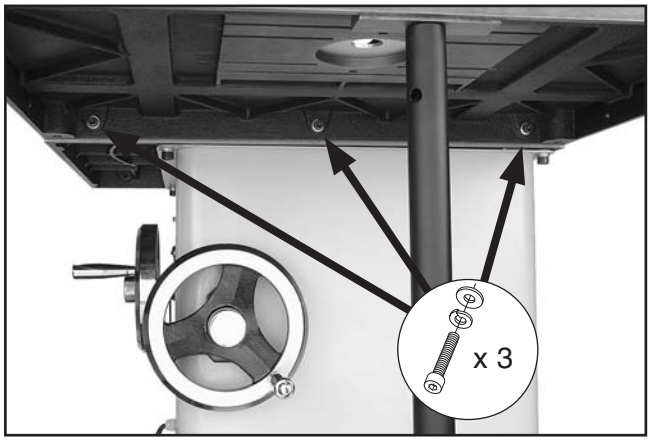


Figure 10. Router table attached to the table saw.

7. Place the straightedge across the saw table and router table to make sure that the combined table surface is flat.

   —If the combined table surface is flat, continue with **Step 8**.

   —If the outside edge of the router table tilts down, place strips of masking tape along the bottom edge of the saw table to shim the router table up and even with the saw table from side to side (see **Figure 11**).

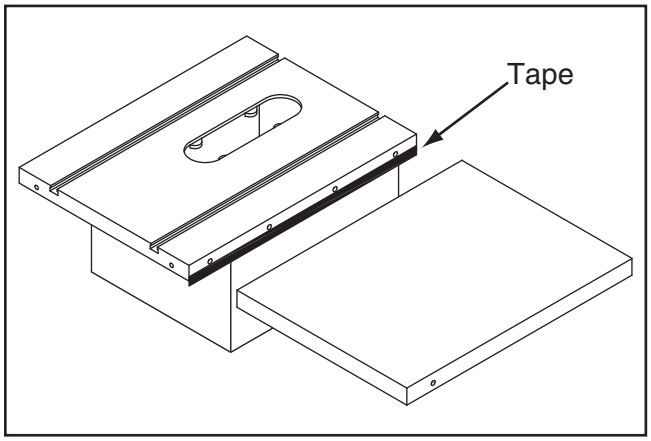


Figure 11. Masking tape to shift the table up.

—If the outside edge of the router table tilts up, place strips of masking tape along the top edge of the saw table to shim the router table down and even with the saw table from side to side (see **Figure 12**).

Note: *After reinstalling the router table, remove all excess masking tape with a razor blade.*

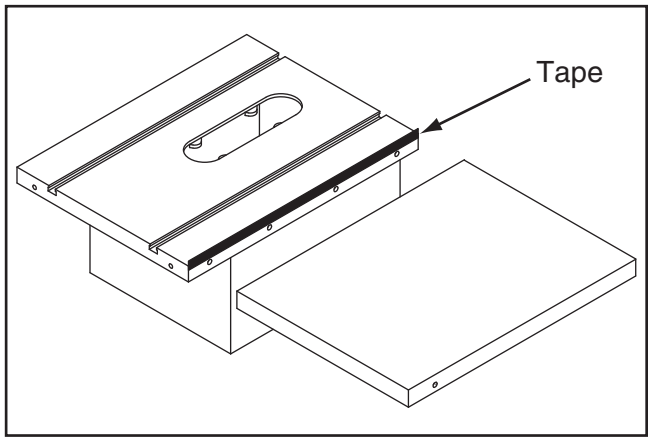


Figure 12. Masking tape to ship the table down.

8. When the saw and router tables are level with each other, rotate the foot pad assembly so that it sits firmly on the floor without changing the height of the router table. Tighten the jam nut of the foot pad assembly up to the leg bottom to secure the setting.

9. Slide the two T-slot bars into the T-slots of the router table (see **Figure 13**).

Note: *The router table double-cross T-slots offer two different orientations for the router fence—choose the one that best suits your operation.*

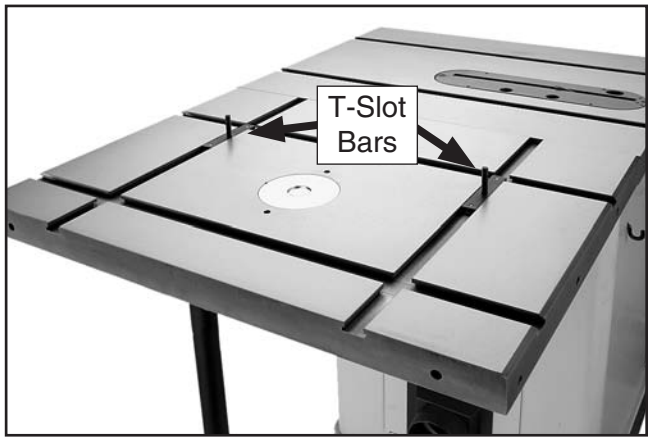


Figure 13. T-slot bars installed.

10. Place the fence assembly over the studs of the T-slot bars, then secure the fence in place by threading the knurled handles onto the studs, as shown in **Figure 14**.

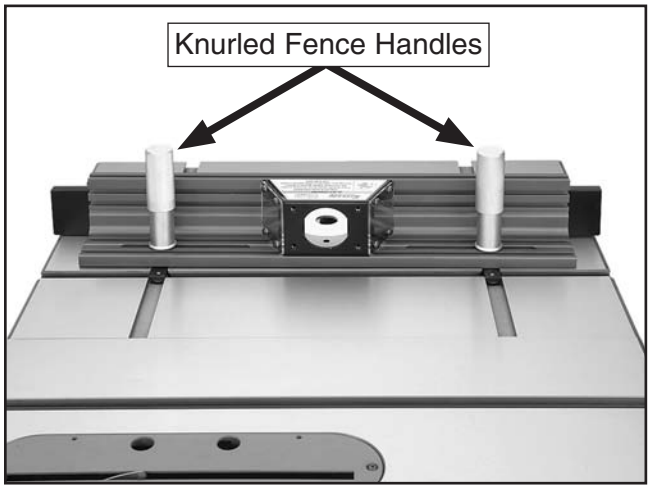


Figure 14. Knurled fence handles installed.

Note: *The two fence board shims provided with your router table can be placed between the outfeed fence board (left) and the fence to offset the outfeed fence board for full edge routing (see the illustration in **Figure 15** and refer to **Edge Routing** on **Page 16** for additional details).*

With additional shop-made shims, the outfeed fence board can be offset up to approximately 4mm from the infeed board. If you require more offset, you can obtain longer M6-1 flat head screws to secure the outfeed fence board.

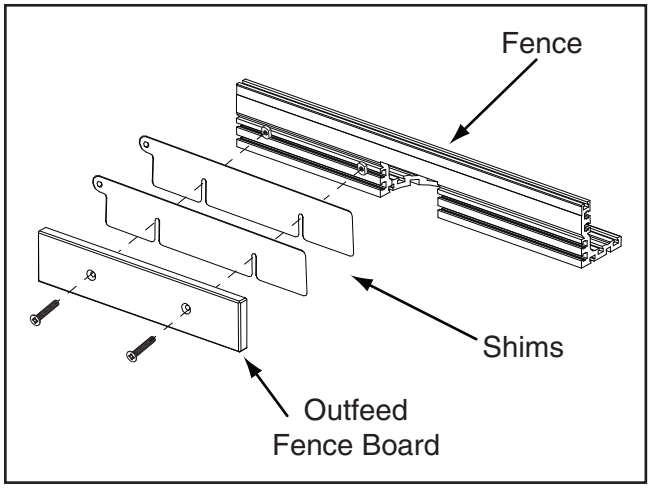


Figure 15. Shim installation for full edge routing.

⚠CAUTION

DO NOT operate the attached router without an adequate dust collection system. Follow your router manufacturer's specifications for the required dust collection capacity. Failure to use a dust collection system can result in short and long-term respiratory illness.

11. Attach the dust port to the back of the fence assembly with the (4) M6-1 x 10 cap screws and (4) 6mm flat washers, as shown in **Figure 16.**

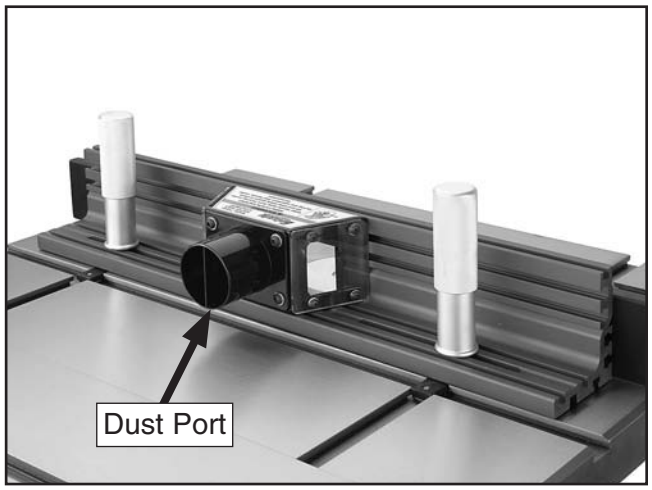


Figure 16. Dust port installed.

12. Slide the attached square nut on the guard bracket into the top fence T-slot, center it with the dust hood and dust port, then tighten the cap screw to secure it in place, as shown in **Figure 17**.

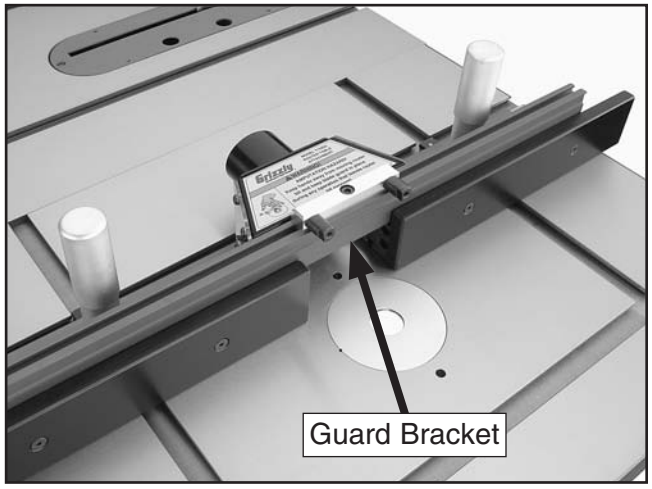


Figure 17. Guard bracket attached to the fence.

⚠CAUTION

To reduce the risk of hand injury from accidental contact with the spinning router bit, ALWAYS make sure the fence and router guard are properly positioned and secured before connecting the router to power—the exception is free-hand routing.

13. Attach the plastic router guard to the guard bracket with the (2) star knob bolts, as shown in **Figure 18**.

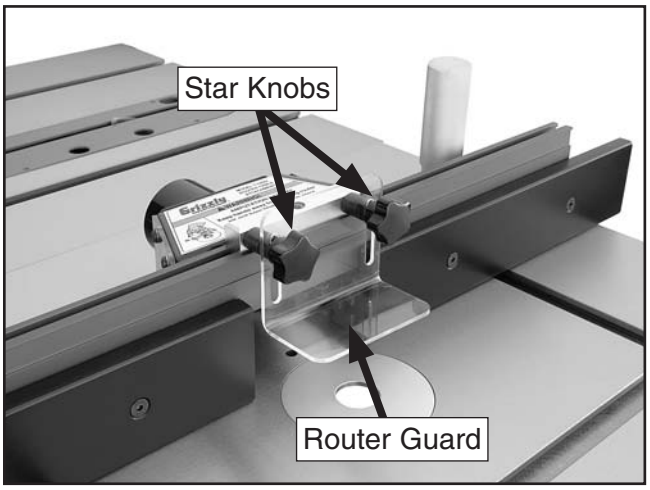


Figure 18. Router guard installed.

Router Installation

The Model T10222 will support a router with a base thickness between ¼" and 2¼".

To install a router:

1. DISCONNECT THE SAW AND ROUTER FROM POWER!

2. Slide three of the router hold-down assemblies into the T-slots underneath the router table so that they allow room for the router base, as shown in **Figure 19**.

   Note: *To properly position the hold-down clamp, adjust the tightness of the hold-down knob and the adjustment bolt so that the clamp will allow room for the router base in the next step. If necessary, put the adjustment bolt jam nut on the other side of the clamp.*

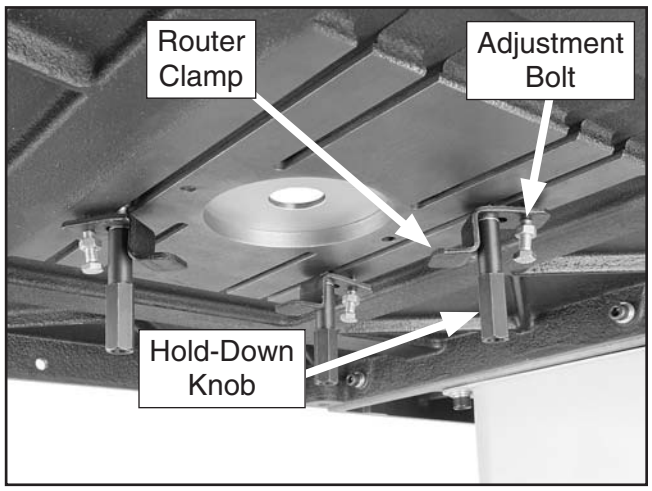


Figure 19. Router hold-down assembly controls.

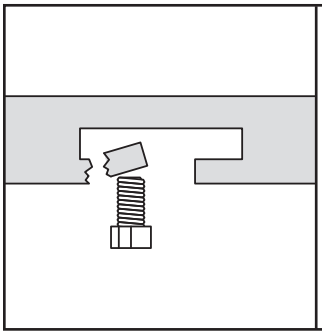
⚠WARNING

If the router unexpectedly moves or the router bit contacts the table insert or fence during operation, serious personal injury could result from flying debris. ALWAYS make sure that all four router clamps are used and are applied to the flat surface of the router base before connecting the router to power.

3. Slide the router base onto the three hold-down clamps, position them so that they secure the router bit in the center of the table opening, then tighten the hold-down knobs and adjustment bolts to secure the router in place (see **Figure 20**).

Figure 20. Router installed in the hold-downs.

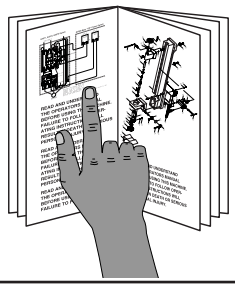
4. Install the remaining hold-down assembly to make sure the router stays firmly in place during operation.



NOTICE

To prevent damage to the router table T-slots, do not position the clamp adjustment bolts over the thin edge of the T-slots.

SECTION 3: OPERATIONS

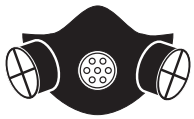


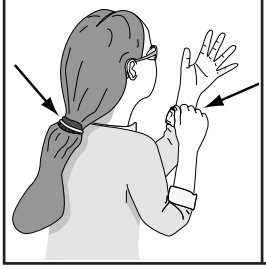
⚠WARNING

To reduce the risk of serious injury when using this tool, read and understand this entire manual before beginning any operations.

⚠WARNING

Damage to your eyes and lungs could result from using this tool without proper protective gear. Always wear safety glasses and a respirator when using this tool.





⚠WARNING

Loose hair, clothing, or jewelry could get caught in machinery and cause serious personal injury. Keep these items away from moving parts at all times to reduce this risk.

NOTICE

If you have never used this type of tool or equipment before, WE STRONGLY RECOMMEND that you read books, review industry trade magazines, or get formal training before beginning any projects. Regardless of the content in this section, Grizzly Industrial will not be held liable for accidents caused by lack of training.

Operation Overview

The purpose of this overview is to provide the novice operator with a basic understanding of how the tool is used during operation, so the tool controls/components discussed later in this manual are easier to understand.

Due to the generic nature of this overview, it is not intended to be an instructional guide. To learn more about specific operations, read this entire manual and seek additional training from experienced router operators, and do additional research outside of this manual by reading "how-to" books, trade magazines, or web sites.

To complete a typical operation, the operator does the following:

1. Examines the workpiece to make sure it is suitable for cutting.

2. Adjusts the fence boards close to the bit for maximum workpiece support, and then secures the fence boards in place.

3. Adjusts the bit height for the desired cutting profile.

4. Adjusts the fence position to establish the depth of cut.

5. Wears safety glasses and a respirator, and locates push sticks if needed.

6. If using a reversible router, verifies that the direction of spindle rotation is correct, and then starts the router.

   For smaller workpieces or odd-shaped workpieces, a zero-clearance fence or jig is used.

7. Holds the workpiece firmly and flatly against the fence, and then pushes the workpiece into the bit at a steady and controlled rate until the workpiece moves completely beyond it.

   Important: *The operator is very careful to keep the workpiece firmly against the table and fence during the entire cut.*

8. Stops the router.

Workpiece Inspection

Some workpieces are not safe to cut or may require modification before routing. Before routing, inspect all workpieces for the following:

- **Material Type:** The router is intended for cutting natural and man-made wood products, laminate covered wood products, and some plastics. This machine is NOT designed to cut metal, glass, stone, tile, etc.

- **Foreign Objects:** Nails, staples, dirt, rocks and other foreign objects are often embedded in wood. While routing, these objects can become dislodged and hit the operator, cause kickback, or break the bit, which might then fly apart. Always visually inspect your workpiece for these items. If they can't be removed, DO NOT cut the workpiece.

- **Large/Loose Knots:** Loose knots may dislodge during a cutting operation. Knots can cause kickback and machine damage. Choose workpieces that do not have large/loose knots or plan ahead to avoid shaping through them.

- **Wet or "Green" Stock:** Routing wood with a moisture content over 20% causes unnecessary wear on the cutters, increases the risk of kickback, and yields poor results.

- **Excessive Warping:** Workpieces with excessive cupping, bowing, or twisting are dangerous to cut because they are unstable and often unpredictable when being shaped. DO NOT process workpieces with these characteristics unless you properly square up the stock with a jointer and planer.

- **Minor Warping:** Workpieces with slight cupping can be safely supported if the cupped side is facing the table or the fence. A workpiece supported on the bowed side will rock during a cut and could cause kickback or severe injury.

NOTICE

If you are using a mobile base with the table saw, use one of the options below when moving the saw and the router table attachment:

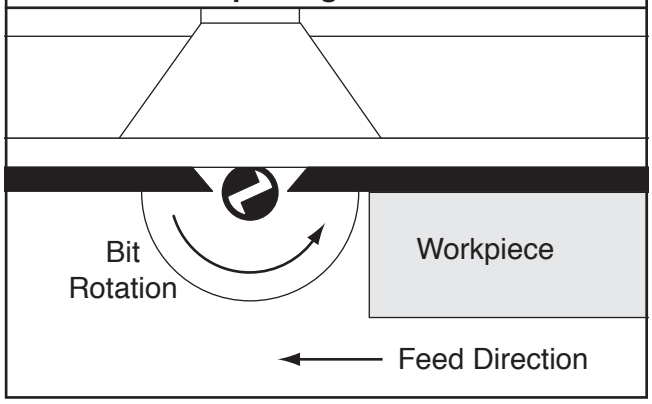
- **Attach an extension to the mobile base that will provide support for the router table leg.**
- **Install a locking caster onto the bottom of the router table leg.**
- **Adjust the router table leg foot up, move the unit, then re-adjust the foot to provide proper support to the router table.**

Edge Jointing

Jointing the edge of a board involves using a straight cutting router bit to remove wood from the face of the board. The result is a perfectly flat and square edge.

⚠WARNING

Always feed the workpiece against the router bit rotation direction, as illustrated below. Otherwise, the workpiece could be aggressively pulled from your hands, drawing them into the spinning cutter.



To joint the edge of a workpiece:

1. DISCONNECT ROUTER FROM POWER!

2. Secure a straight cutting bit into your router according to the router manufacturer's instructions.

3. Install the smallest table insert into the router table that still allows the router bit to freely rotate.

4. Raise the bit to a height slightly more than that of the workpiece, then rotate it by hand until the cutting flute is perpendicular to the fence boards.

5. Insert and secure shims between the outfeed fence board and the fence bracket that equal in thickness the amount of material you want to remove from the workpiece face (see the illustration in **Figure 21**).

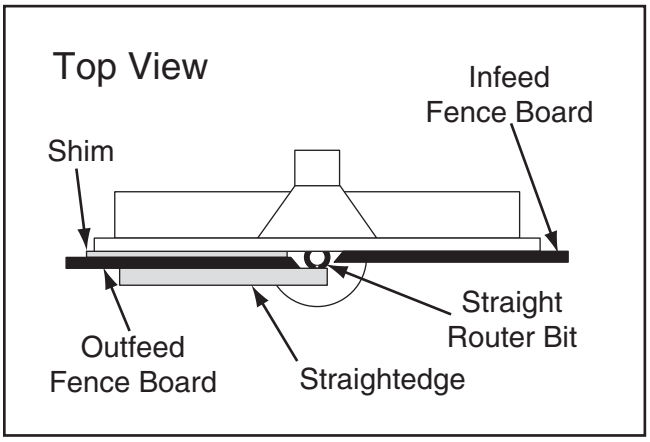


Figure 21. Fence setup for edge jointing (guard removed for clarity).

6. Place a straightedge against the outfeed fence board, then adjust the fence assembly so that the straightedge is also against the bit flute, as illustrated in **Figure 21**.

7. Lock the fence assembly in place, tighten all knobs, connect the router to power, then perform the cut (see **Figure 22**).

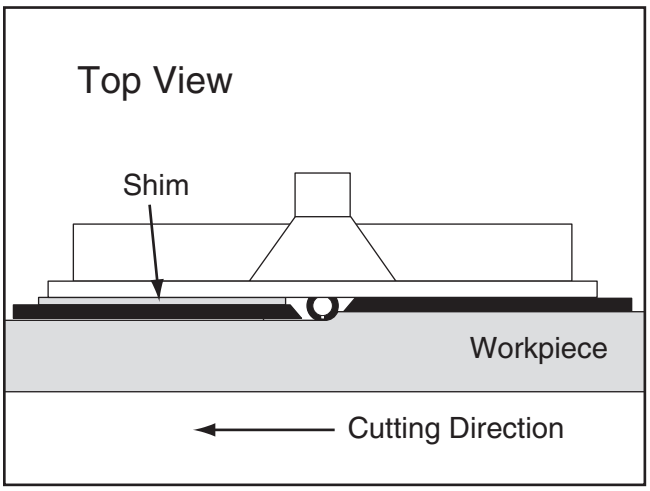


Figure 22. Edge jointing (guard removed for clarity).

Groove Cutting

Groove cutting produces a groove or bead into the face of the board.

To cut a groove into the face of the workpiece:

1. DISCONNECT ROUTER FROM POWER!

2. Secure the bit into the router according to the router manufacturer's instructions.

3. Install the smallest table insert into the table that still allows the bit to freely rotate.

4. Make sure both fence boards are even with one another and secured to the fence assembly.

5. Raise the bit to the desired height, then adjust the fence assembly so that the fence boards are behind the bit the same distance as the desired depth-of-cut (see the illustrations in **Figures 23–24**).

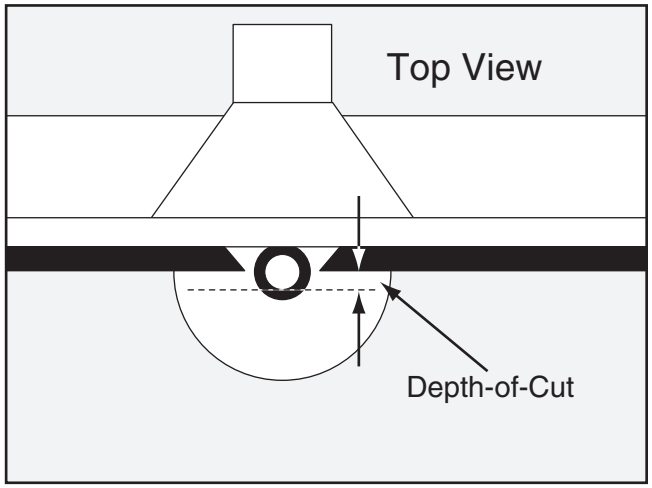


Figure 23. Groove cutting setup, top view (guard removed for clarity).

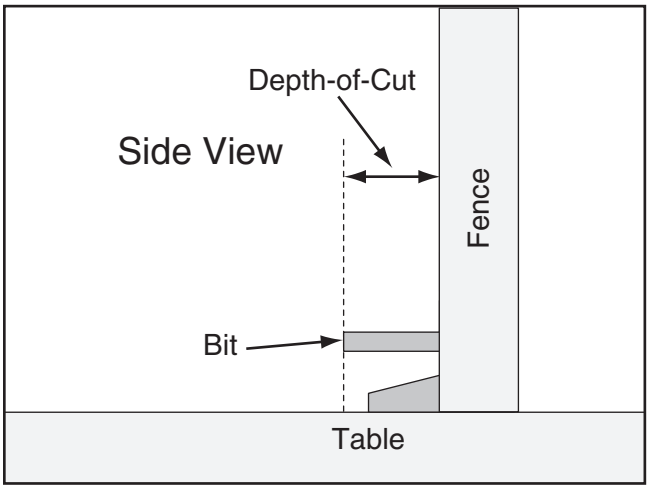


Figure 24. Groove cutting setup, side view (guard removed for clarity).

6. Lock the fence assembly in place, tighten all knobs, connect the router to power, then perform the cut.

Routing Small Stock

Feeding small stock past the router bit is always dangerous. If you must route small stock, use a zero-clearance fence. This will provide greater protection for the operator, better workpiece support, and reduced tear out on narrow or fragile stock.

To make a zero-clearance fence:

1. DISCONNECT ROUTER FROM POWER!

2. Remove the fence boards from the fence assembly.

3. Select a piece of straight and smooth stock that is the same height and thickness as the fence boards and approximately 24" long.

4. Cut an outline of the spindle and cutter from the center of the stock selected in **Step 3**, as illustrated in **Figure 25**.

   Note: *Make the outline as close as possible to the cutter and spindle without interfering with rotation.*

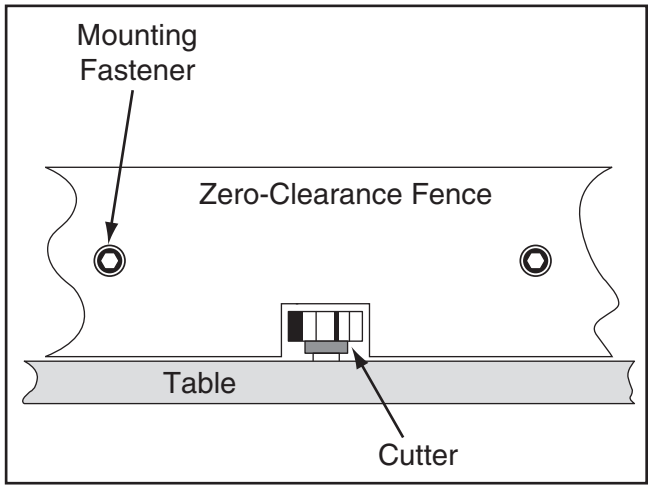


Figure 25. Example of a zero-clearance fence.

5. Create countersunk mounting holes in the zero-clearance fence so that the screws and T-nuts removed from the split fence can be used to secure the new fence to the fence assembly in the same manner.

⚠CAUTION

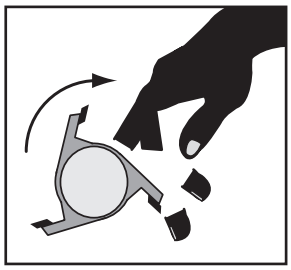
ALWAYS use hold-downs or featherboards and push sticks when shaping small or narrow stock. These devices keep your hands away from the spinning cutter and sufficiently support the stock to allow a safe and effective cut, reducing the risk of personal injury.

6. Secure the zero-clearance fence to the fence assembly, check for proper clearance, connect the router to power, then run a test piece by the cutter to verify the results.

Free-Hand Routing

Irregular or free-hand routing, as illustrated in **Figure 26**, takes a high degree of skill and dexterity and is done without the protection and aid from the fence and guard. The most dangerous part of free-hand routing is beginning the cut, when the cutter first contacts the workpiece. Often the workpiece will tend to jerk or kickback, presenting an injury hazard to the operator.

⚠WARNING



Free-hand or irregular routing greatly increases the chance that the operator may lose control of the workpiece, which could result in serious personal injury. Therefore, a starting pin or block and a custom guard or workpiece holding jig MUST be used.

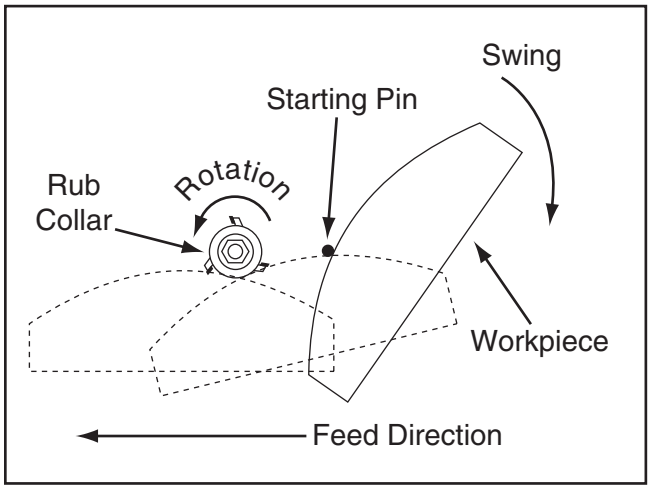


Figure 26. Illustration of free-hand routing using a starting pin (guard not shown for clarity).

To reduce the likelihood of kickback when free-hand routing, use a starting pin or block (see **Figures 26–27**). This will allow you to anchor and slowly pivot the workpiece into the cutter as the cut is started, making the operation more stable and safe.

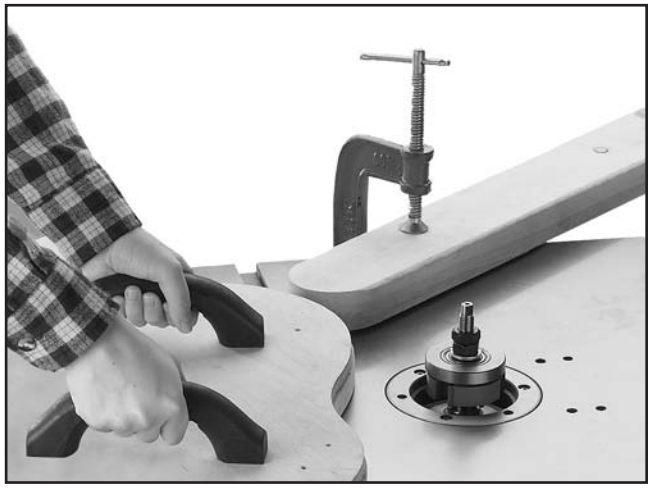


Figure 27. Example of using a jig with a starting block.

⚠WARNING

ALWAYS use an auxiliary jig and extreme care when free-hand routing that requires removal of the fence. Routing without the fence and the attached guard greatly increases the risk of accidental contact with the spinning cutter, causing serious personal injury.

To free-hand route:

1. DISCONNECT ROUTER FROM POWER!

2. Fabricate a jig to use with the workpiece that will match the desired finished shape, then attach it to the workpiece (see **Figure 27** for an example).

   Note: *Make sure any fasteners used will not make contact with the router bit during the cutting operation. Glue can be used as an alternative.*

3. Remove the fence assembly from the table.

4. If possible, fabricate and mount a custom guard over the bit that safely protects your hands from the spinning cutter.

5. Insert the starting pin in the best suited hole on the routing table or clamp a starting block to the table (see **Figure 27** for an example).

6. Install a router bit with a rub collar as directed by the router manufacturer's instructions, then raise it to the desired height (see **Figure 28**).

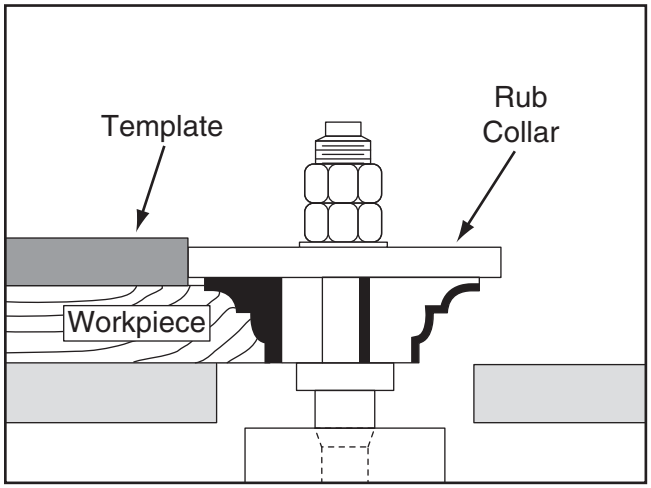
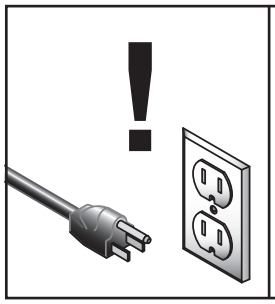


Figure 28. Using a template and rub collar for free-hand routing.

SECTION 4: MAINTENANCE



⚠WARNING

Always disconnect power to the router before performing maintenance. Failure to do this may result in serious personal injury.

Schedule

For optimum performance from your equipment, follow this maintenance schedule and refer to any specific instructions given in this section.

Daily Check:

- Loose mounting T-bolts or lock knobs.
- Worn router switch.
- Worn or damaged router cords and plugs.
- Any other condition that could hamper the safe operation of this router table attachment.

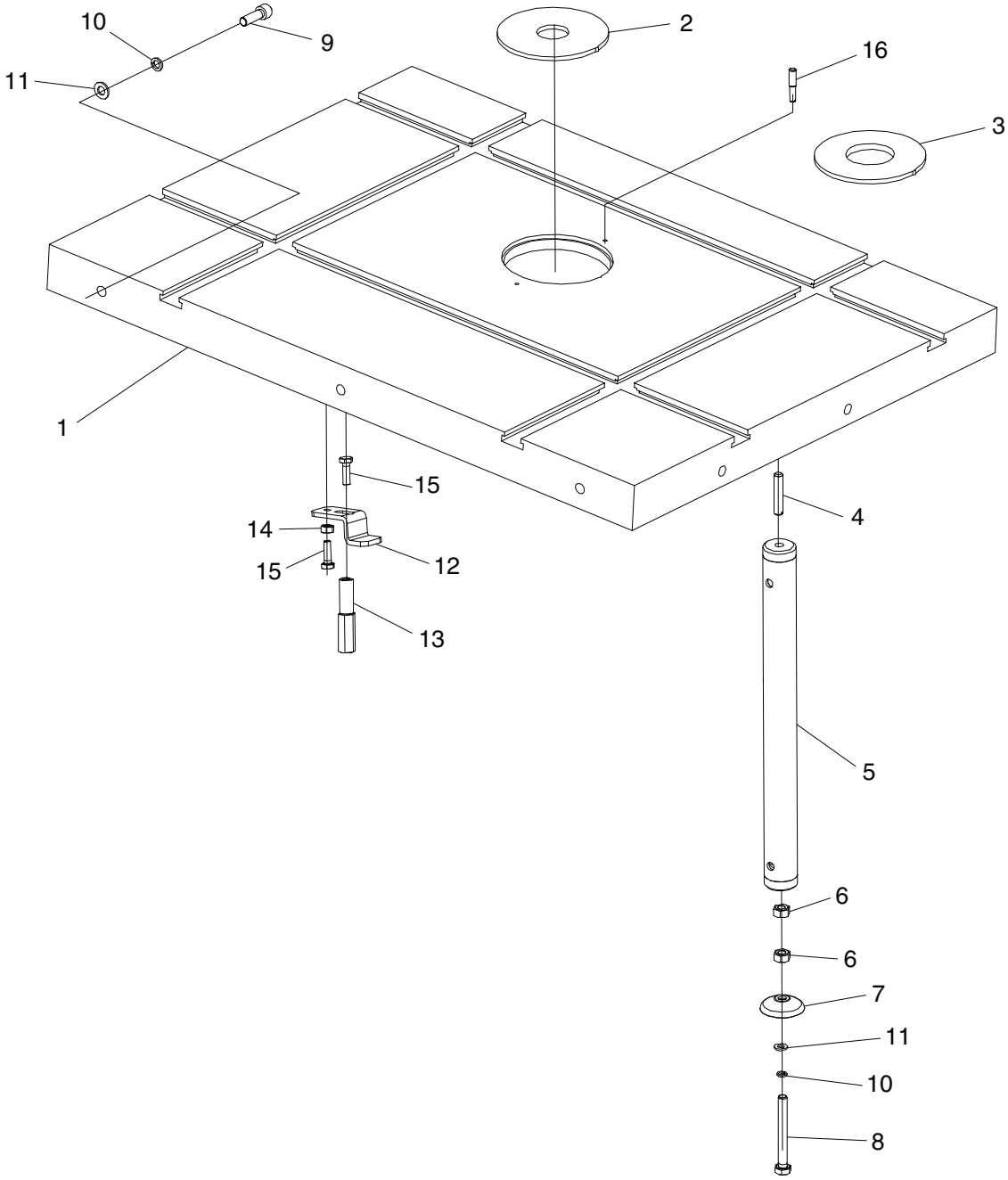
Cleaning & Protecting

Frequently blow-off sawdust with compressed air, then wipe away the remaining dust with a clean shop rag. This is especially important for the internal working parts of the fence assembly and the router. Dust build-up around the router is a sure way to decrease its life span.

The cast-iron router table can be kept rust-free with regular applications of products like SLIPIT®. For long term storage you may want to consider products like Boeshield T-9™.

SECTION 5: PARTS

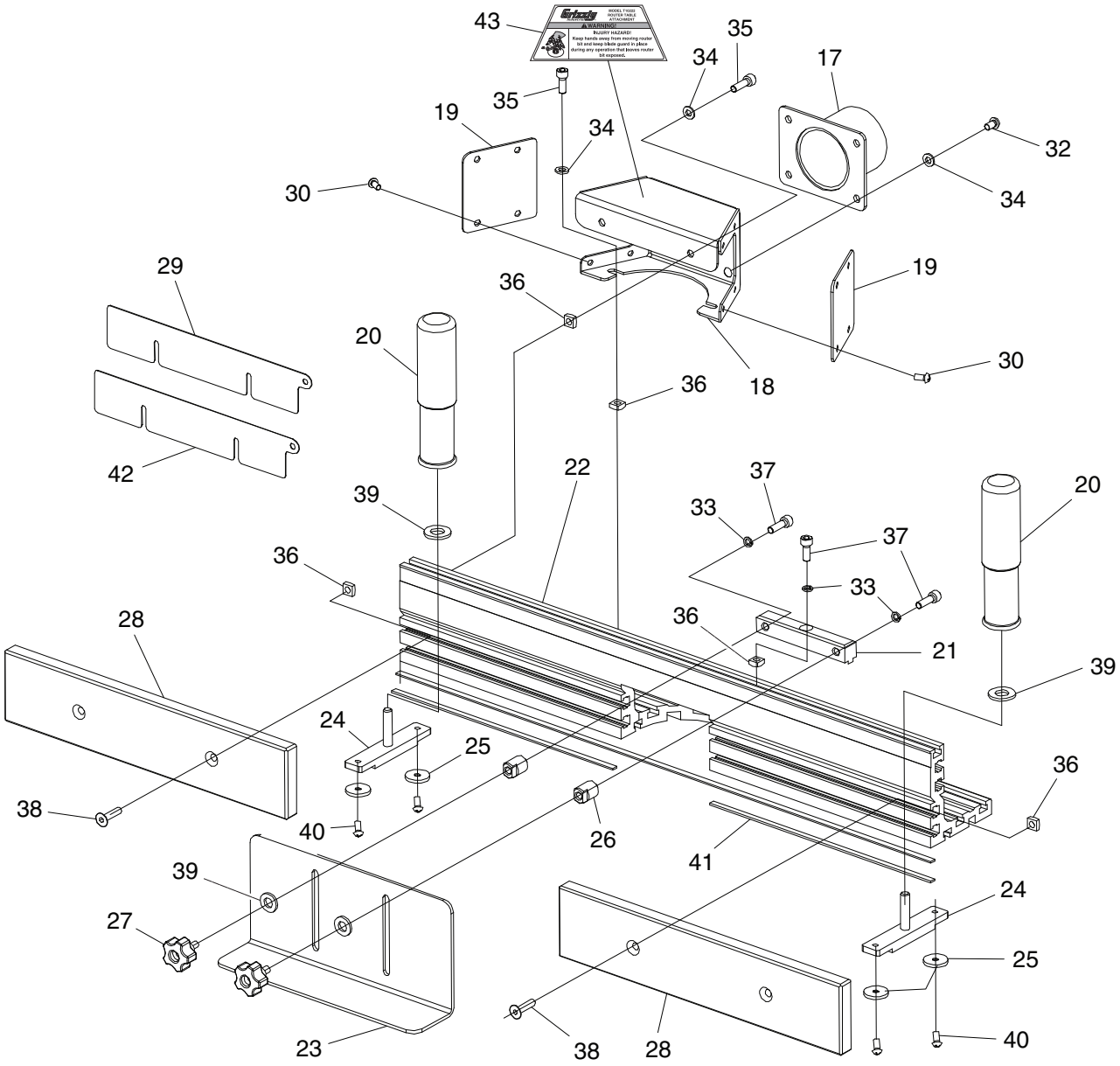
Table Parts



REF	PART #	DESCRIPTION
1	PT10222001	ROUTER TABLE
2	PT10222002	TABLE INSERT 1" ID
3	PT10222003	TABLE INSERT 2-3/8" ID
4	PT10222004	THREADED STUD M8-1.25 X 40
5	PT10222005	SUPPORT LEG
6	PN03M	HEX NUT M8-1.25
7	PT10222007	FOOT PAD
8	PB82M	HEX BOLT M8-1.25 X 80

REF	PART #	DESCRIPTION
9	PCAP13M	CAP SCREW M8-1.25 X 30
10	PLW04M	LOCK WASHER 8MM
11	PW01M	FLAT WASHER 8MM
12	PT10222012	ROUTER HOLD-DOWN
13	PT10222013	HOLD-DOWN KNOB M6-1
14	PN01M	HEX NUT M6-1
15	PB08M	HEX BOLT M6-1 X 20
16	PT10222016	STARTER PIN

Fence Parts



REF	PART #	DESCRIPTION
17	PT10222017	DUST PORT 2-1/2"
18	PT10222018	DUST HOOD
19	PT10222019	DUST HOOD SIDE COVER
20	PT10222020	KNURLED HANDLE M8-1.25 X 25
21	PT10222021	ROUTER GUARD BRACKET
22	PT10222022	FENCE
23	PT10222023	PLASTIC ROUTER GUARD
24	PT10222024	T-SLOT BAR
25	PT10222025	T-SLOT RING
26	PT10222026	GUARD STAND-OFF
27	PT10222027	STAR KNOB BOLT M6-1 X 15
28	PT10222028	PHENOLIC FENCE BOARD
29	PT10222029	FENCE BOARD SHIM 0.7MM

REF	PART #	DESCRIPTION
30	PBHS06M	BUTTON HD CAP SCR M5-.8 X 12
32	PBHS11M	BUTTON HD CAP SCR M6-1 X 10
33	PLW03M	LOCK WASHER 6MM
34	PW03M	FLAT WASHER 6MM
35	PCAP26M	CAP SCREW M6-1 X 12
36	PSN02M	SQUARE NUT M6-1
37	PCAP01M	CAP SCREW M6-1 X 16
38	PFH12M	FLAT HD SCR M6-1 X 25
39	PT10222039	TEFLON FLAT WASHER 8MM
40	PFH30M	FLAT HD SCR M5-.8 X 8
41	PT10222041	PVC PAD
42	PT10222042	FENCE BOARD SHIM 1.5MM
43	PT10222043	INJURY HAZARD WARNING LABEL

Grizzly Industrial, Inc. WARRANTY CARD

Name _____

Street _____

City _____ State _____ Zip _____

Phone # _____ Email _____ Invoice # _____

Model # _____ Order # _____ Serial # _____

The following information is given on a voluntary basis. It will be used for marketing purposes to help us develop better products and services. ***Of course, all information is strictly confidential.***

1. How did you learn about us?

____ Advertisement ____ Friend ____ Catalog
____ Card Deck ____ Website ____ Other:

2. Which of the following magazines do you subscribe to?

____ Cabinetmaker & FDM
____ Family Handyman
____ Hand Loader
____ Handy
____ Home Shop Machinist
____ Journal of Light Cont.
____ Live Steam
____ Model Airplane News
____ Old House Journal
____ Popular Mechanics
____ Popular Science
____ Popular Woodworking
____ Precision Shooter
____ Projects in Metal
____ RC Modeler
____ Rifle
____ Shop Notes
____ Shotgun News
____ Today's Homeowner
____ Wood
____ Wooden Boat
____ Woodshop News
____ Woodsmith
____ Woodwork
____ Woodworker West
____ Woodworker's Journal
____ Other:

3. What is your annual household income?

____ $20,000-$29,000 ____ $30,000-$39,000 ____ $40,000-$49,000
____ $50,000-$59,000 ____ $60,000-$69,000 ____ $70,000+

4. What is your age group?

____ 20-29 ____ 30-39 ____ 40-49
____ 50-59 ____ 60-69 ____ 70+

5. How long have you been a woodworker/metalworker?

____ 0-2 Years ____ 2-8 Years ____ 8-20 Years ____ 20+ Years

6. How many of your machines or tools are Grizzly?

____ 0-2 ____ 3-5 ____ 6-9 ____ 10+

7. Do you think your machine represents a good value? _____Yes _____No

8. Would you recommend Grizzly Industrial to a friend? _____Yes _____No

9. Would you allow us to use your name as a reference for Grizzly customers in your area?
Note: *We never use names more than 3 times.* _____Yes _____No

10. Comments: _____

_____

_____

_____

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WARRANTY AND RETURNS

Grizzly Industrial, Inc. warrants every product it sells for a period of **1 year** to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special, or consequential damages arising from the use of our products.

To take advantage of this warranty, contact us by mail or phone and give us all the details. We will then issue you a "Return Number,'' which must be clearly posted on the outside as well as the inside of the carton. We will not accept any item back without this number. Proof of purchase must accompany the merchandise.

The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

Please feel free to write or call us if you have any questions about the machine or the manual.

Thank you again for your business and continued support. We hope to serve you again soon.