MODEL T34243
MOBILE ROUTER TABLE WORKSTATION
OWNER'S MANUAL
(For models manufactured since 04/25)

#SG23247 PRINTED IN TAIWAN V1.03.25

******Keep for Future Reference******

⚠ 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.

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IMPORTANT NOTICE!

Modification Required for Attaching Your Router

The universal mounting plate included with the Model T34243 DOES NOT feature pre-drilled mounting holes due to the varying brands of routers using different mounting hole configurations.

To properly use this router table, holes will need to be drilled into the mounting plate that match the base mounting hole configuration of your router. This procedure will require a drill press or hand-drill with guide, the correct size drill bits, and possibly additional fasteners for mounting the router.

Before making any modifications to the mounting plate, read the entire **SETUP** section in this manual to make sure the person making the modification is capable of performing the required tasks, and to make sure that your router is firmly secured to the router mounting plate.

INTRODUCTION

Contact Info

We stand behind our machines! If you have questions or need help, contact us with the information below. Before contacting, make sure you get the **serial number** and **manufacture date** from the machine ID label. This will help us help you faster.

Grizzly Technical Support
1815 W. Battlefield
Springfield, MO 65807
Phone: (570) 546-9663
Email: techsupport@grizzly.com

We want your feedback on this manual. What did you like about it? Where could it be improved? Please take a few minutes to give us feedback.

Grizzly Documentation Manager
P.O. Box 2069
Bellingham, WA 98227-2069
Email: manuals@grizzly.com

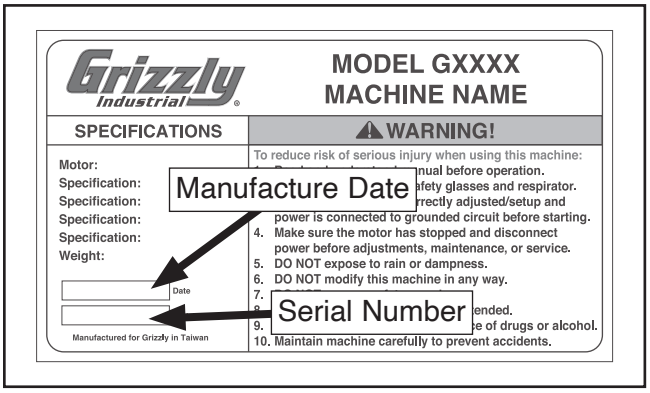
Manual Accuracy

We are proud to provide a high-quality owner's manual with your new machine!

We made every effort to be exact with the instructions, specifications, drawings, and photographs in this manual. Sometimes we make mistakes, but our policy of continuous improvement also means that **sometimes the machine you receive is slightly different than shown in the manual**.

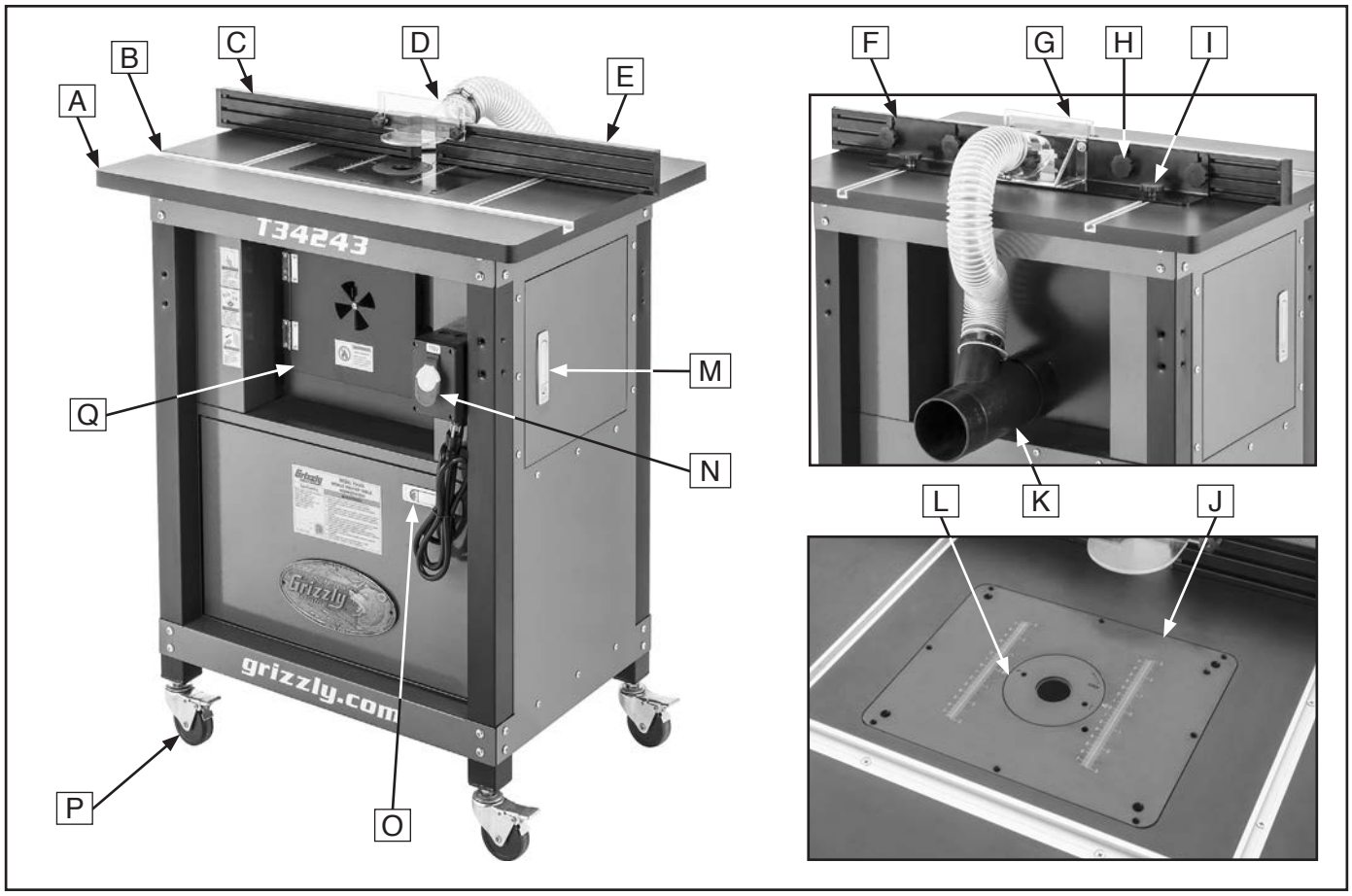
If you find this to be the case, and the difference between the manual and machine leaves you confused or unsure about something, check our website for an updated version. We post current manuals and manual updates for free on our website at **www.grizzly.com**.

Alternatively, you can call our Technical Support for help. Before calling, make sure you write down the **manufacture date** and **serial number** from the machine ID label (see below). This information is required for us to provide proper tech support, and it helps us determine if updated documentation is available for your machine.



Identification

Become familiar with the names and locations of the controls and features shown below to better understand the instructions in this manual.



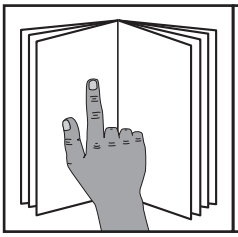
A. Table
B. T-Slot ¾"
C. Outfeed Fence
D. Router Bit Guard
E. Infeed Fence
F. Fence Base
G. Dust Shroud 2½"
H. Fence Lock Knob (1 of 4)
I. Fence Base Lock Knob (1 of 2)
J. Mounting Plate
K. Y-Fitting w/4" Dust Port
L. Table Insert
M. Side Door Latch (1 of 2)
N. ON/OFF Paddle Switch
O. Front Door Latch
P. Locking Swivel Caster (1 of 4)
Q. Dust Box

⚠WARNING

For Your Own Safety Read Instruction Manual Before Operating Router Table

a) Wear eye protection.
b) Always keep router bit guard in place and in proper operating condition.
c) Feed workpiece AGAINST rotation of router bit.
d) Keep fingers away from revolving bit–use fixtures when necessary.
e) Do not use awkward hand positions.

Controls & Components



⚠WARNING

To reduce your risk of serious injury, read this entire manual BEFORE using machine.

Refer to the following figures and descriptions to become familiar with the basic controls and components of this machine. Understanding these items and how they work will help you understand the rest of the manual and minimize your risk of injury when operating this machine.

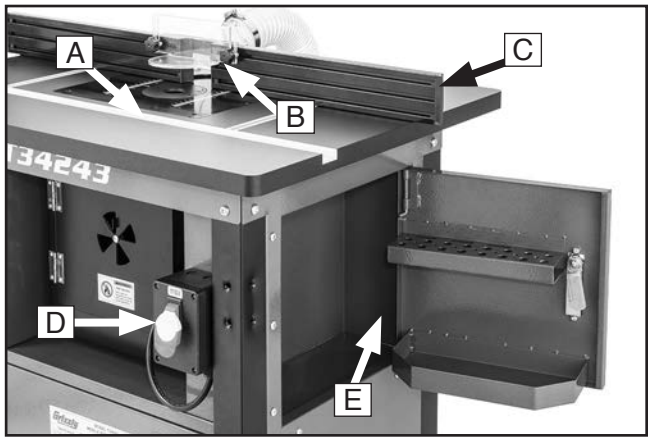


Figure 1. Router table controls (front).

A. T-Slot: Provides secure attachment point for router table accessories.

B. Router Bit Guard: Provides workpiece visibility while shielding user during operations.

C. Fence: Provides workpiece support during router operations.

D. ON/OFF Switch: Turns router ***ON*** and ***OFF***. Remove key to disable switch.

E. Storage Compartment (1 of 2): Store bits and other accessories in right- and left-side doors.

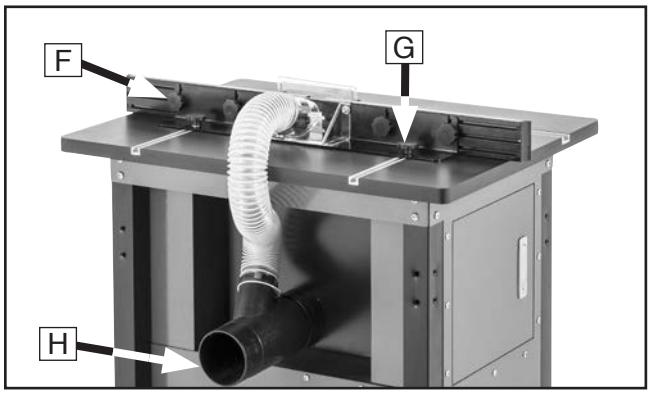


Figure 2. Router table controls (rear).

F. Fence Lock Knobs (1 of 4): Loosen to adjust infeed/outfeed fences side to side; tighten to secure position.

G. Fence Base Lock Knobs (1 of 2): Loosen to adjust fence base front to back; tighten to secure position.

H. Dust Port: 4" dust port connects to user's dust-collection system.

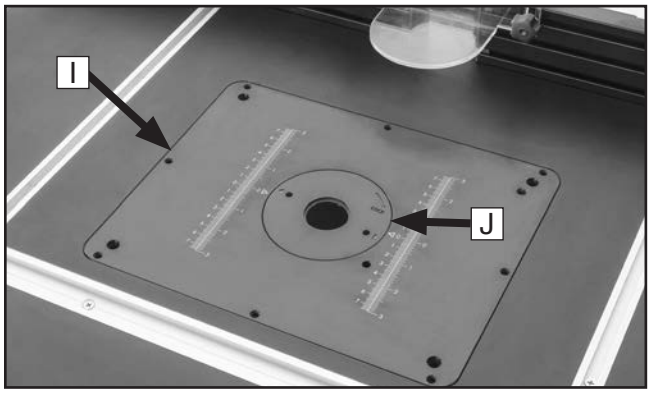


Figure 3. Mounting plate components.

I. Mounting Plate: Attaches router to table.

J. Table Insert: Provides additional workpiece control and safety near bit during operations.

MACHINE DATA SHEET

Customer Service #: (570) 546-9663 · To Order Call: (800) 523-4777 · Fax #: (800) 438-5901

MODEL T34243 MOBILE ROUTER TABLE WORKSTATION

Product Dimensions:

Weight	117 lbs.
Width (side-to-side) x Depth (front-to-back) x Height	32 x 27 x 42-1/2 in.
Footprint (Length x Width)	26-1/2 x 19 in.

Shipping Dimensions:

Carton #1

Type	Cardboard Box
Content	Table & Stand
Weight	110 lbs.
Length x Width x Height	35 x 26 x 12 in.
Must Ship Upright	Yes

Carton #2

Type	Cardboard Box
Content	Dust Box
Weight	16 lbs.
Length x Width x Height	17 x 15 x 14 in.
Must Ship Upright	Yes

Electrical:

Connection Type	Cord & Plug
Power Cord Included	Yes
Power Cord Length	72 in.
Power Cord Gauge	14 AWG
Plug Included	Yes
Included Plug Type	NEMA 5-15
Switch Type	ON/OFF Paddle Switch w/Removable Key

Main Specifications:

Suitable Routers for Mounting	3.25" - 4.2" Non-Plunge Routers
Floor to Table Height	38-3/8 in.
Table Size	31-3/4 x 23-3/4 in.
Number of Table T-Slots	1
Table T-Slot Size	3/4 in.
Plate Size	11-5/8 x 9-1/4 in.
Plate Opening Size	11-5/8 x 9-1/4 in.
Plate Insert Size	3-7/8 in.
Plate Insert Opening Size	1-1/4 in.
Fence Length	32-1/2 - 44 in.
Fence Width x Height	3/4 x 2-3/4 in.
Fence Board Size	16-1/4 x 2-3/4 x 3/4 in.
Fence T-Slot Size	5/16 in.
Dust Port Type	Y-Fitting
Dust Port Sizes	2-1/2, 4 in.
Dust Shroud Size	2-1/2 in.

Construction:

Table	MDF
Stand & Dust Box	Steel
Stand & Dust Box Paint/Finish Type	Powder Coat
Fence	Aluminum
Mounting Plate	Bakelite
Table Insert	Polycarbonate
Router Guard	Clear Polycarbonate
Dust Shroud	Clear Polycarbonate
Paint Type/Finish	Powder Coated

Other Specifications:

Country of Origin	Taiwan
Warranty	1 Year
Approximate Assembly & Setup Time	1 Hour
ISO 9001 Factory	Yes

Features:

Rolling Cabinet
Dual Side Cabinet Doors
Lower Front Door
Premium Aluminum Fence
Dust Enclosure with Dual Dust Extraction
ON/OFF Paddle Switch with Removable Key
Dual T-Tracks for Precise Fence Movement
Polycarbonate Table Insert

SECTION 1: SAFETY

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. Always use common sense and good judgment.

⚠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 **Alerts the user to useful information about proper operation of the machine to avoid machine damage.**

Safety Instructions for Machinery

⚠WARNING

OWNER'S MANUAL. Read and understand this owner's manual BEFORE using machine.

TRAINED OPERATORS ONLY. Untrained operators have a higher risk of being hurt or killed. Only allow trained/supervised people to use this machine. When machine is not being used, disconnect power, remove switch keys, or lock-out machine to prevent unauthorized use—especially around children. Make your workshop kid proof!

DANGEROUS ENVIRONMENTS. Do not use machinery in areas that are wet, cluttered, or have poor lighting. Operating machinery in these areas greatly increases the risk of accidents and injury.

MENTAL ALERTNESS REQUIRED. Full mental alertness is required for safe operation of machinery. Never operate under the influence of drugs or alcohol, when tired, or when distracted.

ELECTRICAL EQUIPMENT INJURY RISKS. You can be shocked, burned, or killed by touching live electrical components or improperly grounded machinery. To reduce this risk, only allow qualified service personnel to do electrical installation or repair work, and always disconnect power before accessing or exposing electrical equipment.

DISCONNECT POWER FIRST. Always disconnect machine from power supply BEFORE making adjustments, changing tooling, or servicing machine. This prevents an injury risk from unintended startup or contact with live electrical components.

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.

⚠WARNING

WEARING PROPER APPAREL. Do not wear loose clothing, gloves, neckties, or jewelry that can become entangled in moving parts. Always tie back or cover long hair. Wear non-slip footwear to reduce risk of slipping and losing control or accidentally contacting cutting tool or moving parts.

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

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

REMOVE ADJUSTING TOOLS. Tools left on machinery can become dangerous projectiles upon startup. Never leave chuck keys, wrenches, or any other tools on machine. Always verify removal before starting!

USE CORRECT TOOL FOR THE JOB. Only use this tool for its intended purpose—do not force it or an attachment to do a job for which it was not designed. Never make unapproved modifications—modifying tool or using it differently than intended may result in malfunction or mechanical failure that can lead to personal injury or death!

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.

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

GUARDS & COVERS. Guards and covers reduce accidental contact with moving parts or flying debris. Make sure they are properly installed, undamaged, and working correctly BEFORE operating machine.

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

NEVER STAND ON MACHINE. Serious injury may occur if machine is tipped or if the cutting tool is unintentionally contacted.

STABLE MACHINE. Unexpected movement during operation greatly increases risk of injury or loss of control. Before starting, verify machine is stable and mobile base (if used) is locked.

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

UNATTENDED OPERATION. To reduce the risk of accidental injury, turn machine ***OFF*** and ensure all moving parts completely stop before walking away. Never leave machine running while unattended.

MAINTAIN WITH CARE. Follow all maintenance instructions and lubrication schedules to keep machine in good working condition. A machine that is improperly maintained could malfunction, leading to serious personal injury or death.

DAMAGED PARTS. Regularly inspect machine for damaged, loose, or mis-adjusted parts—or any condition that could affect safe operation. Immediately repair/replace BEFORE operating machine. For your own safety, DO NOT operate machine with damaged parts!

MAINTAIN POWER CORDS. When disconnecting cord-connected machines from power, grab and pull the plug—NOT the cord. Pulling the cord may damage the wires inside. Do not handle cord/plug with wet hands. Avoid cord damage by keeping it away from heated surfaces, high traffic areas, harsh chemicals, and wet/damp locations.

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

Additional Safety for Router Tables

⚠WARNING

Serious cuts, amputation, entanglement, or death can occur from contact with spinning bit. Improperly secured bits or spindle parts/fasteners can fly off and strike nearby operators or bystanders with great force. Flying dust or debris from cutting operation can cause eye injuries or blindness. To minimize risk of getting hurt or killed, anyone operating router MUST completely heed hazards and warnings below.

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

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

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

BLIND CUTTING. Keep router bit on underside of workpiece when making blind cuts. This will decrease risk of accidental contact with spinning bit.

ROUTER BIT ROTATION. Always feed workpiece against rotation direction of bit. Otherwise, workpiece could be aggressively pulled from your hands, drawing them into spinning bit.

ROUTER BIT HEIGHT. Keep any unused portion of bit below the table surface to minimize risk of your hand contacting spinning bit.

ROUTER BIT SPEED. Do not exceed recommended speed of any router bit. Doing so can cause bit to fracture or explode and cause injury.

CUTTING SUPPORT. NEVER cut workpiece without using a fence, jig, or miter gauge as a support guide. Otherwise, workpiece could be aggressively pulled from your hands, drawing them into spinning bit.

WORKPIECE SIZING. NEVER use workpiece shorter than 6" without special fixtures or jigs. Otherwise, workpiece can become trapped between fence and router bit, which could draw your hands into spinning bit.

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 fence is removed.

TRIPPING HAZARD. To prevent tripping over power cord of router when not in use, always disconnect it and safely store it out of way.

APPROPRIATE WORKPIECES. Danger of kickback and injury is increased when workpiece has knots, holes, or foreign objects in it. Warped stock should be flattened with a jointer before you shape it with router.

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

INSTALLING ROUTER BIT. Insert at least ¾ of bit shank into collet, and allow ⅛" of clearance between shank and bottom of collet to ensure bit is securely installed.

SECTION 2: POWER SUPPLY

Availability

Before installing the machine, consider the availability and proximity of the required power supply circuit. If an existing circuit does not meet the requirements for this machine, a new circuit must be installed. To minimize the risk of electrocution, fire, or equipment damage, installation work and electrical wiring must be done by an electrician or qualified service personnel in accordance with all applicable codes and standards.

⚠WARNING

Electrocution, fire, shock, or equipment damage may occur if machine is not properly grounded and connected to power supply.

⚠WARNING

Serious injury could occur if you connect machine to power before completing setup process. DO NOT connect to power until instructed later in this manual.

110V Circuit Requirements

This machine is prewired to operate on a power supply circuit that has a verified ground and meets the following requirements:

Nominal Voltage 110V, 115V, 120V
Cycle ..... 60 Hz
Phase ..... Single-Phase
Power Supply Circuit ..... 15 Amps
Plug/Receptacle ..... NEMA 5-15

A power supply circuit includes all electrical equipment between the breaker box or fuse panel in the building and the machine. The power supply circuit used for this machine must be sized to safely handle the full-load current drawn from the machine for an extended period of time. (If this machine is connected to a circuit protected by fuses, use a time delay fuse marked D.)

⚠CAUTION

For your own safety and protection of property, consult an electrician if you are unsure about wiring practices or electrical codes in your area.

Note: *Circuit requirements in this manual apply to a dedicated circuit—where only one machine will be running on the circuit at a time. If machine will be connected to a shared circuit where multiple machines may be running at the same time, consult an electrician or qualified service personnel to ensure circuit is properly sized for safe operation.*

Grounding & Plug Requirements

This machine MUST be grounded. In the event of certain malfunctions or breakdowns, grounding reduces the risk of electric shock by providing a path of least resistance for electric current.

This machine is equipped with a power cord that has an equipment-grounding wire and a grounding plug. Only insert plug into a matching receptacle (outlet) that is properly installed and grounded in accordance with all local codes and ordinances. DO NOT modify the provided plug!

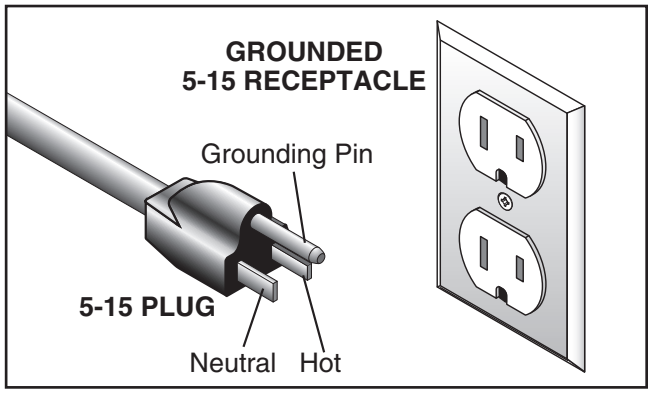
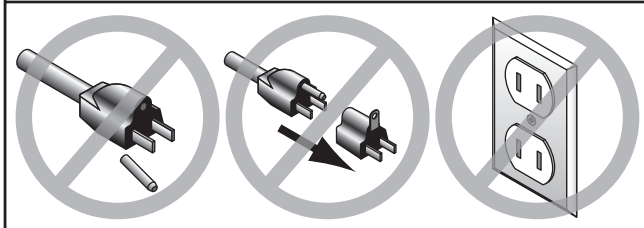


Figure 4. Typical 5-15 plug and receptacle.

⚠CAUTION



SHOCK HAZARD!

Two-prong outlets do not meet the grounding requirements for this machine. Do not modify or use an adapter on the plug provided—if it will not fit the outlet, have a qualified electrician install the proper outlet with a verified ground.

Improper connection of the equipment-grounding wire can result in a risk of electric shock. The wire with green insulation (with or without yellow stripes) is the equipment-grounding wire. If repair or replacement of the power cord or plug is necessary, do not connect the equipment-grounding wire to a live (current carrying) terminal.

Check with a qualified electrician or service personnel if you do not understand these grounding requirements, or if you are in doubt about whether the machine is properly grounded. If you ever notice that a cord or plug is damaged or worn, disconnect it from power, and immediately replace it with a new one.

Connecting to ON/OFF Paddle Switch

The T34243 Router Table includes an ON/OFF paddle switch with disabling key. A power cord is connected to the switch. The power cord has a 5-15 plug that connects to a 110V power supply circuit. See **Connecting Power Cords** on **Page 23** for information on connecting a router to your router table.

Extension Cords

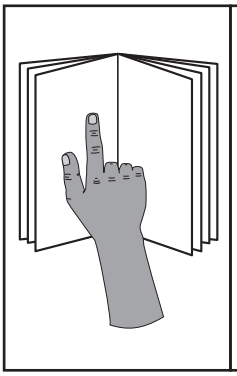
We do not recommend using an extension cord with this machine. If you must use an extension cord, only use it if absolutely necessary and only on a temporary basis.

Extension cords cause voltage drop, which can damage electrical components and shorten motor life. Voltage drop increases as the extension cord size gets longer and the gauge size gets smaller (higher gauge numbers indicate smaller sizes).

Any extension cord used with this machine must be in good condition and contain a ground wire and matching plug/receptacle. Additionally, it must meet the following size requirements:

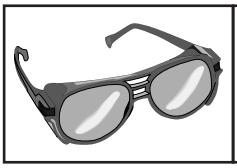
Minimum Gauge Size.....14 AWG
Maximum Length (Shorter is Better).....50 ft.

SECTION 3: SETUP



⚠WARNING

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



⚠WARNING

Wear safety glasses during the entire setup process!

Unpacking

This machine was carefully packaged for safe transport. When unpacking, separate all enclosed items from packaging materials and inspect them for shipping damage. ***If items are damaged, please call us immediately at (570) 546-9663.***

IMPORTANT: Save all packaging materials until you are completely satisfied with the machine and have resolved any issues between Grizzly or the shipping agent. *You MUST have the original packaging to file a freight claim. It is also extremely helpful if you need to return your machine later.*

Needed for Setup

The following items are needed, but not included, for the setup/assembly of this machine.

Description	Qty
• Hex Wrenches 4, 5mm	1 Ea
• Open-End Wrench ¾"	1
• Phillips Head Screwdriver #2	1
• Standard Head Screwdriver ¼"	1
• Open-End Wrench or Socket 8mm	1
• Straightedge 36"	1
• Fine Ruler 24"	1
• Assistant	1

Inventory

The following is a list of items shipped with your machine. Before beginning setup, lay these items out and inventory them.

If any non-proprietary 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.

Inventory (Figure 6)	Qty
A. Table	1
B. Mounting Plate	1
C. Table Insert	1
D. Dust Shroud	1
E. Router Bit Guard	1
F. Fence Base	1
G. Infeed/Outfeed Fences	2
H. Dust Hose 2½" x 26"	1
I. Y-Connector Dust Port	1
J. Back Panel	1
K. Shelves	2
L. Front Door	1
M. Side Panel Assembly, Right	1
N. Side Panel Assembly, Left	1
O. Upper Braces	2
P. Lower Braces	2
Q. Legs	4

NOTICE

If you cannot find an item on this list, carefully check around/inside the machine and packaging materials. Often, these items get lost in packaging materials while unpacking or they are pre-installed at the factory.

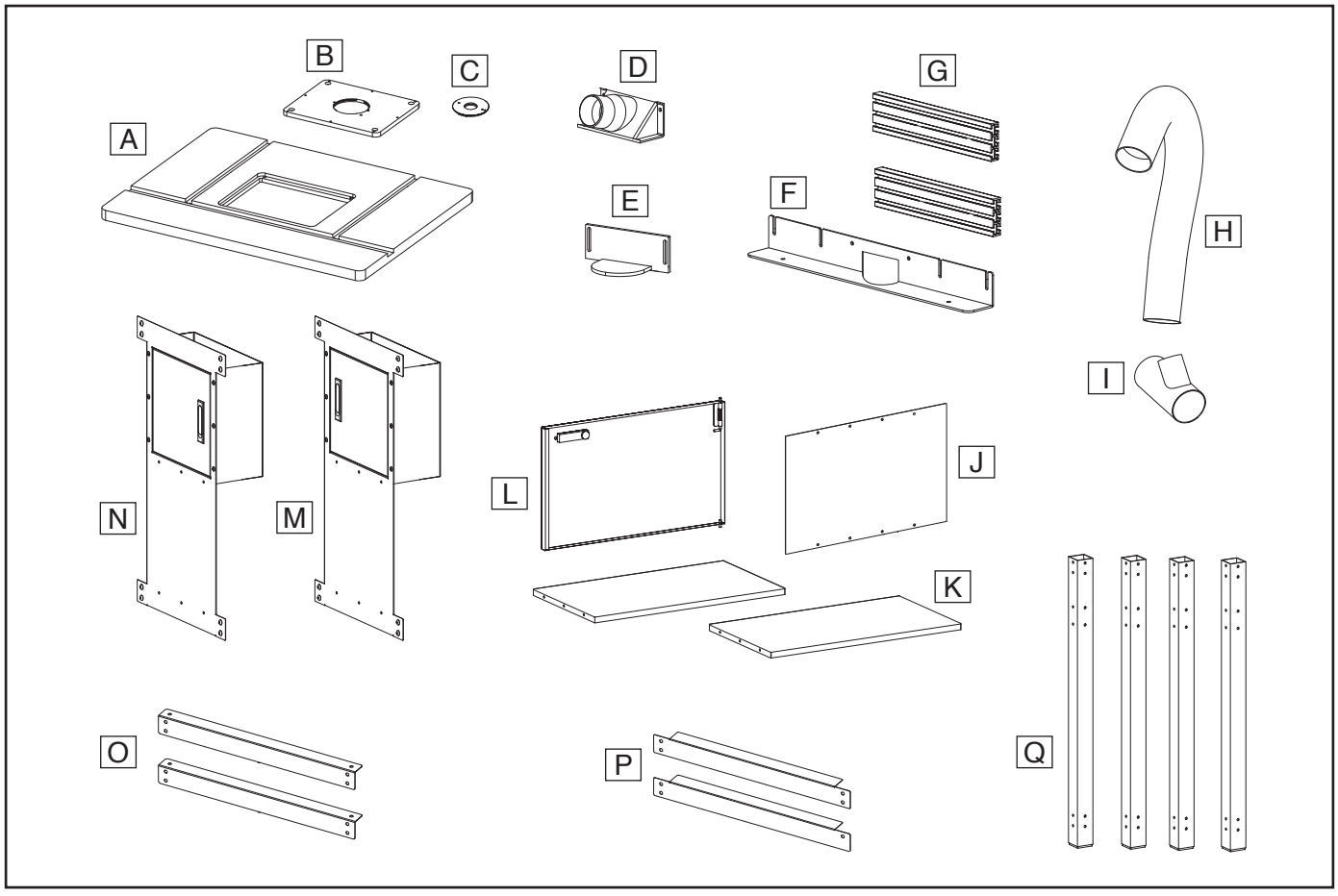


Figure 5. Box 1 main components.

Inventory (Figure 7)	Qty
R. Start Pin	1
S. Spanner Wrench	1
T. Fence Lock Knobs	4
U. Locking Casters	4
V. Fence Base Lock Knobs	2
W. Bit Guard Knobs	2
X. Knob Bolt	1
Y. Hose Clamps 2½"	2

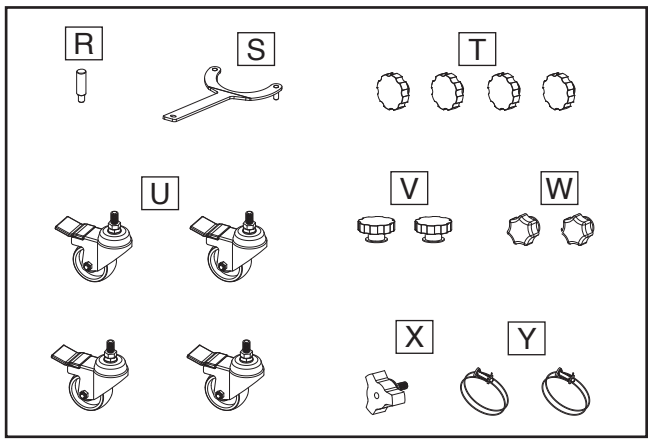


Figure 6. Box 1 small parts.

Inventory (Figure 8)	Qty
Z. Dust Box	1
AA. ON/OFF Paddle Switch	1

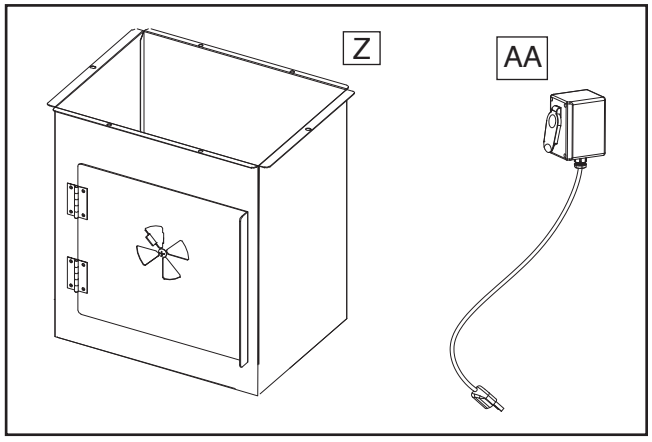


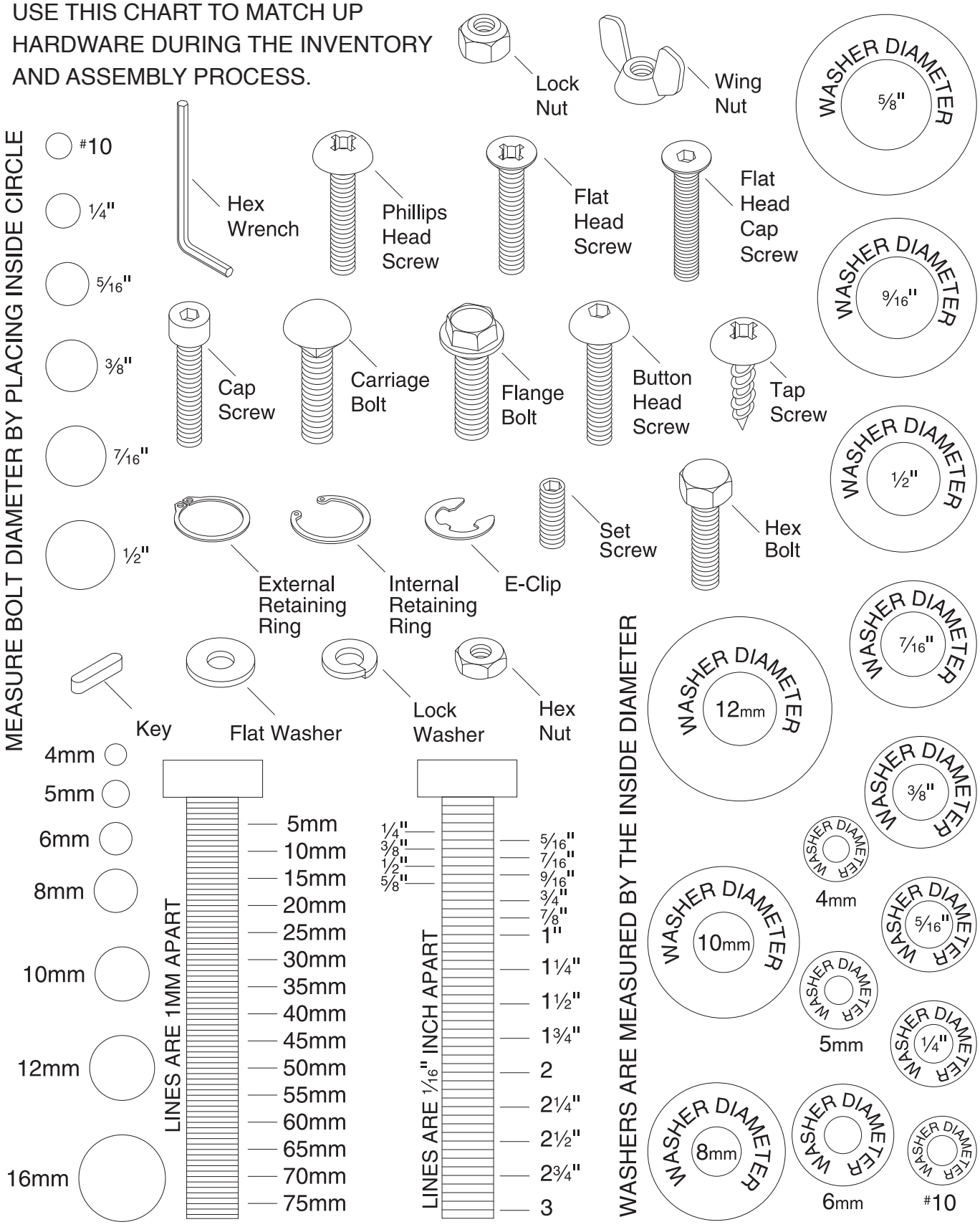
Figure 7. Box 2 contents.

Hardware (Not Shown):

—Flat Washers ¼"	6
—T-bolts ¼"-20 x ½"	2
—Hex Nuts ¼"-20	2
—Button Head Cap Screws ¼"-20 x ½"	20
—Button Head Cap Screws 5/16"-18 x ½"	32
—Flange Bolts 5/16"-18 x ½"	4
—Flat Head Screws 10-24 x ⅜"	6
—Phillips Head Screws 10-24 x ⅝"	4
—Flat Washers #10	4
—Lock Nuts 10-24	4
—Flat Head Screws ¼"-20 x ⅝"	2
—Carriage Bolts ¼"-20 x ¾"	6

Hardware Recognition Chart

USE THIS CHART TO MATCH UP HARDWARE DURING THE INVENTORY AND ASSEMBLY PROCESS.



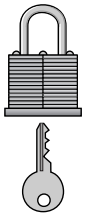
Site Considerations

Weight Load

Refer to the **Machine Data Sheet** for the weight of your machine. Make sure that the surface upon which the machine is placed will bear the weight of the machine, additional equipment that may be installed on the machine, and the heaviest workpiece that will be used. Additionally, consider the weight of the operator and any dynamic loading that may occur when operating the machine.

Space Allocation

Consider the largest size of workpiece that will be processed through this machine and provide enough space around the machine for adequate operator material handling or the installation of auxiliary equipment. With permanent installations, leave enough space around the machine to open or remove doors/covers as required by the maintenance and service described in this manual. **See below for required space allocation.**



⚠CAUTION

Children or untrained people may be seriously injured by this machine. Only install in an access restricted location.

Physical Environment

The physical environment where the machine is operated is important for safe operation and longevity of machine components. For best results, operate this machine in a dry environment that is free from excessive moisture, hazardous chemicals, airborne abrasives, or extreme conditions. Extreme conditions for this type of machinery are generally those where the ambient temperature range exceeds 41°–104°F; the relative humidity range exceeds 20%–95% (non-condensing); or the environment is subject to vibration, shocks, or bumps.

Electrical Installation

Place this machine near an existing power source. Make sure all power cords are protected from traffic, material handling, moisture, chemicals, or other hazards. Make sure to leave enough space around machine to disconnect power supply or apply a lockout/tagout device, if required.

Lighting

Lighting around the machine must be adequate enough that operations can be performed safely. Shadows, glare, or strobe effects that may distract or impede the operator must be eliminated.

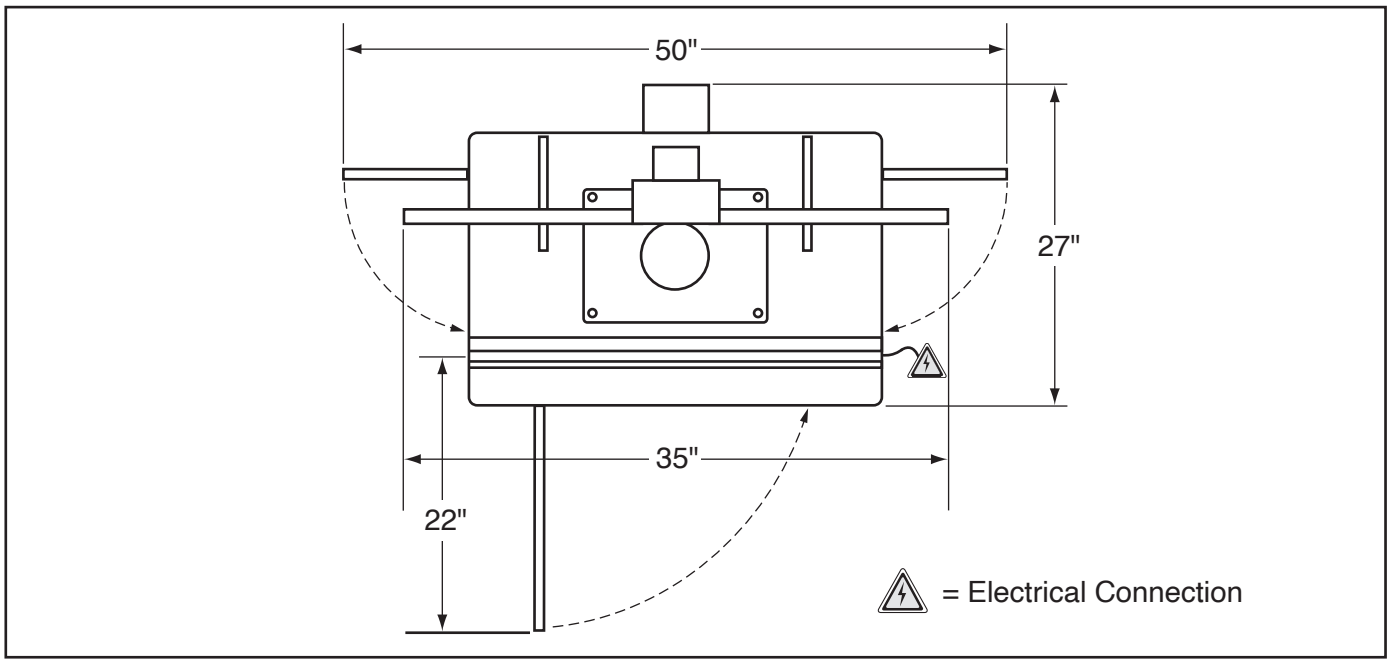


Figure 8. Minimum working clearances.

Assembly

The machine must be fully assembled before it can be operated. Before beginning the assembly process, refer to **Needed for Setup** and gather all listed items. To ensure the assembly process goes smoothly, first clean any parts that are covered or coated in heavy-duty rust preventative (if applicable).

To assemble router table:

1. Attach (2) legs to left side panel assembly using (8) 5/16"-18 x 1/2" button head cap screws. Unused holes should face out (see **Figure 9**).

Note: *Latch on left side panel assembly is located on right side of door.*

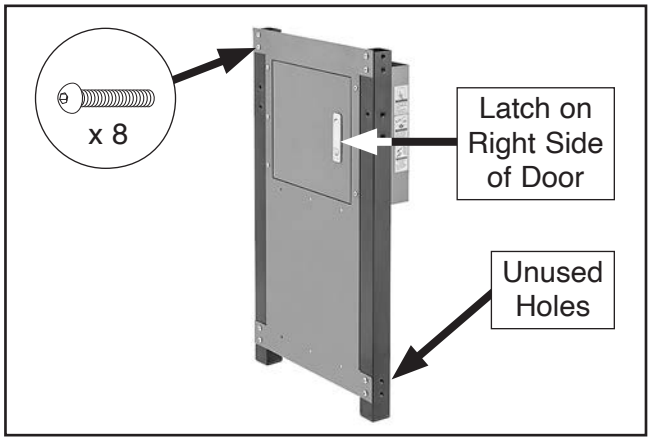


Figure 9. Left side panel assembly.

2. Repeat **Step 1** with right side panel.

Note: *Latch on right side panel assembly is located on left side of door.*

3. With help of assistant, position left and right panel assemblies facing one another as shown in **Figure 10**, and install (2) shelves using (12) 1/4"-20 x 1/2" button head cap screws.

Note: *Orient shelves so sides with (4) holes are facing back of router table.*

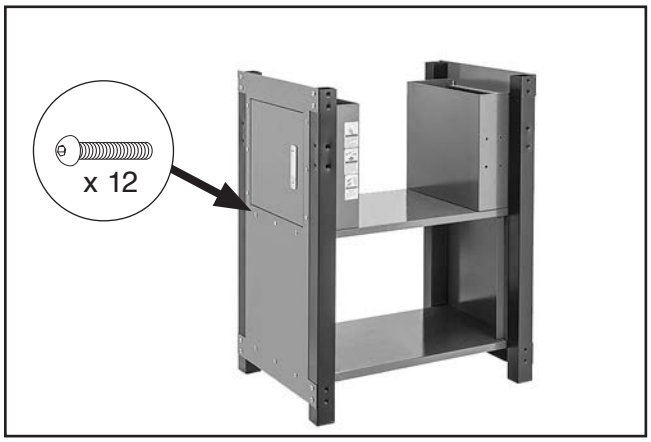


Figure 10. Shelves attached to panel assemblies.

4. Attach rear panel to upper and lower shelves using (8) 1/4"-20 x 1/2" button head cap screws (see **Figure 11**).

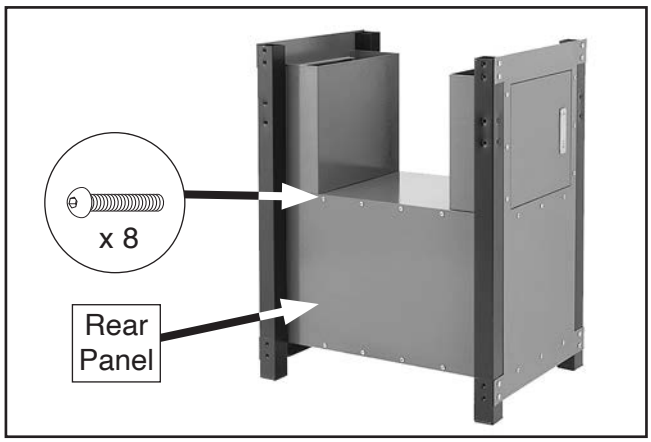


Figure 11. Location of rear panel.

5. Lay base assembly on its back, and thread (4) casters into legs (see **Figure 12**).

6. Turn base assembly upright, then test on level surface. If stable, tighten jam nuts on casters. If base rocks, see **Adjusting Casters** on **Page 23**.

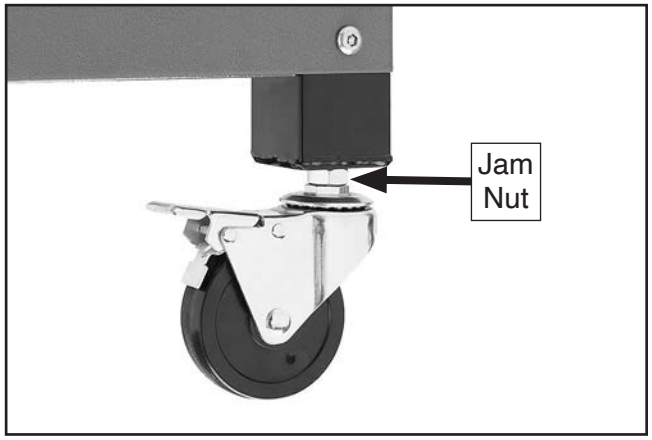


Figure 12. Location of caster jam nut (1 of 4)

7. Place lower hinge pin in hole on bottom shelf (see **Figure 13**), then pull down spring-loaded hinge pin and insert in hole in upper shelf (front left corner).

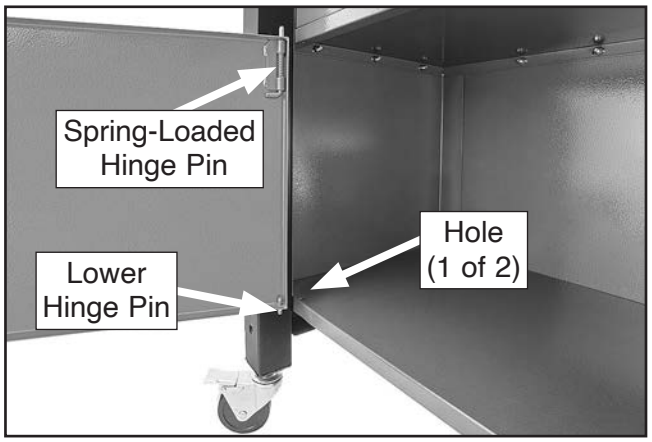


Figure 13. Location of hinge pins and holes.

8. Attach (2) lower braces to legs using (8) 5/16"-18 x 1/2" button head caps screws (see **Figure 14**).

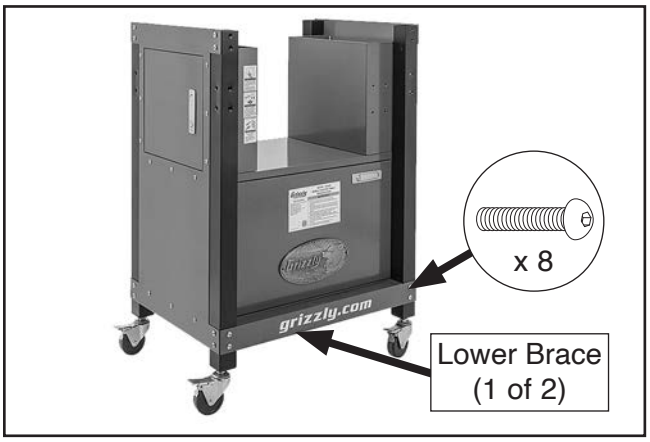


Figure 14. Lower brace attached.

9. Place table upside-down on flat surface (see **Figure 15**), and attach (2) upper braces using (4) 5/16"-18 x 1/2" flange bolts.

Note: *Brace with model number goes on front of table (same side as 3/4" T-slot).*

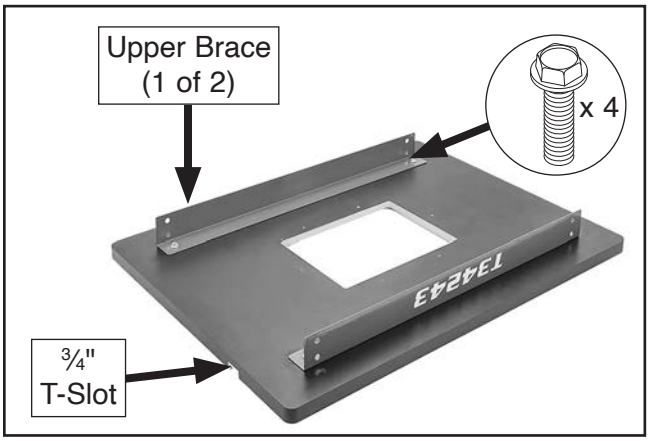


Figure 15. Upper braces installed on table.

10. Place dust box over router plate cutout (see **Figure 16**), and attach using (6) 10-24 x ⅜" flat head screws.

Note: *Ensure dust box door is facing front of table.*

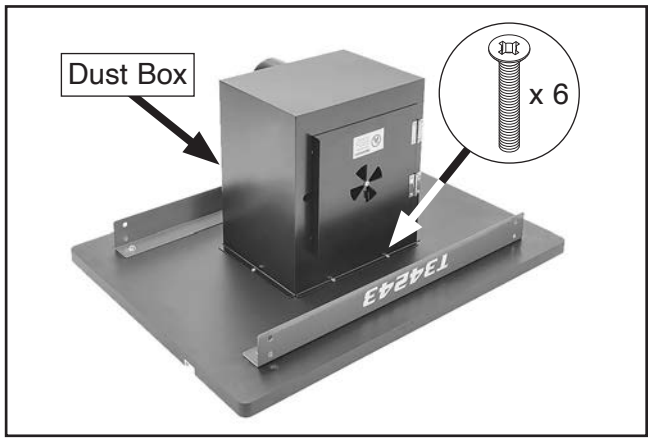


Figure 16. Dust box attached to table.

11. Turn table right-side up, then lower onto base, and secure using (8) 5/16"-18 x ½" button head cap screws (see **Figure 17**).

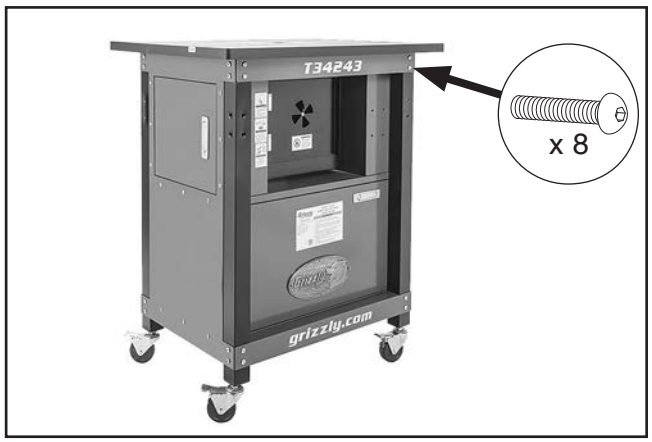


Figure 17. Table assembly installed on base.

12. Remove front cover of ON/OFF switch, then secure switch box to front panel using (4) 10-24 x ⅝" Phillips head screws, #10 flat washers, and 10-24 lock nuts (see **Figure 18**).

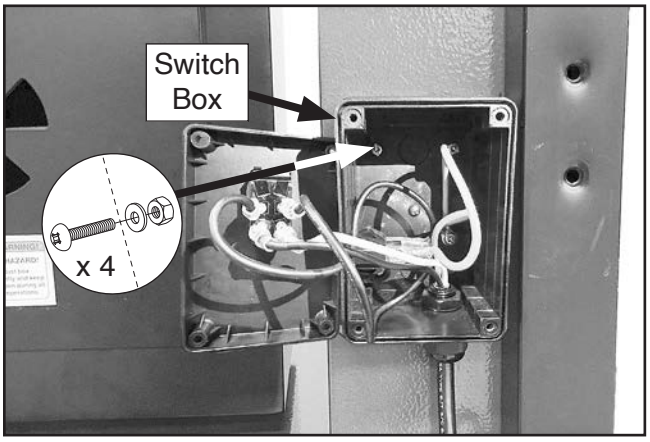


Figure 18. ON/OFF switch.

13. Attach dust shroud to back of fence base using (2) ¼"-20 x ⅝" flat head screws, ¼" flat washers, and ¼"-20 hex nuts (see **Figure 19**).

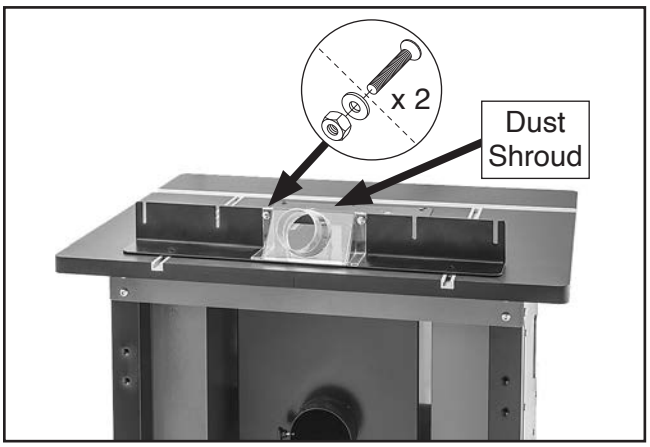


Figure 19. Dust shroud attached to fence base.

14. Remove end caps from infeed and outfeed fences, and install (4) ¼"-20 x ¾" carriage bolts in center slots (see **Figure 20**).

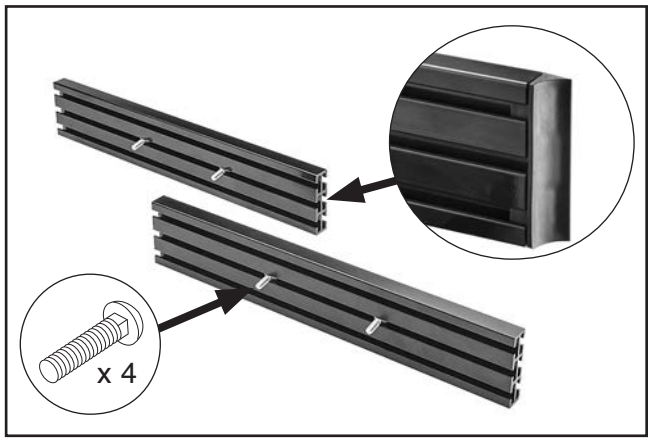


Figure 20. Carriage bolts installed in fences.

15. Align carriage bolts with vertical slots in fence base (see **Figure 21**), and secure with (4) ¼" flat washers and (4) infeed/outfeed lock knobs.

16. Slide (1) ¼"-20 x ½" T-bolt into each table T-slot (see **Figure 21**), then align holes in fence base with T-bolts. Secure with (2) ¼" flat washers and (2) fence base lock knobs.

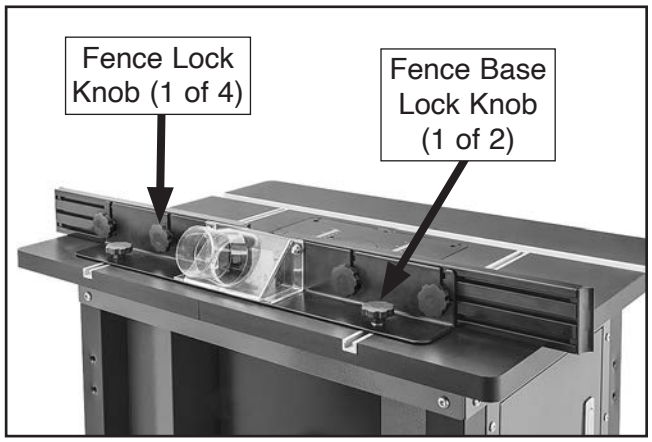


Figure 21. Infeed/outfeed fences attached to base.

17. Install (2) ¼"-20 x ¾" carriage bolts in top slot of fence face, then install end caps removed in **Step 14**. (see **Figure 22**).

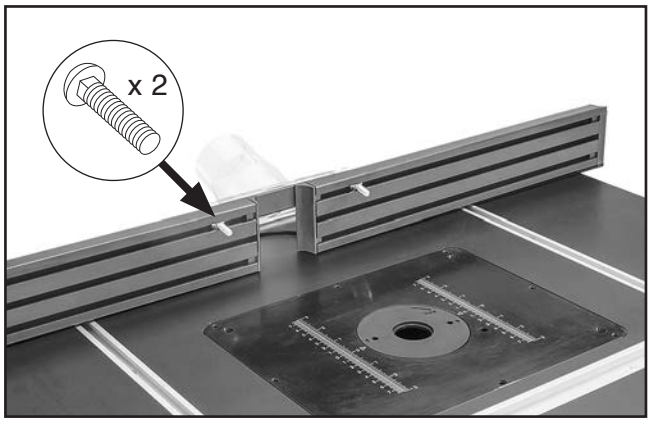


Figure 22. Bit guard carriage bolts installed.

18. Position mounting slots in router bit guard over carriage bolts, and secure with (2) bit guard knobs (see **Figure 23**).

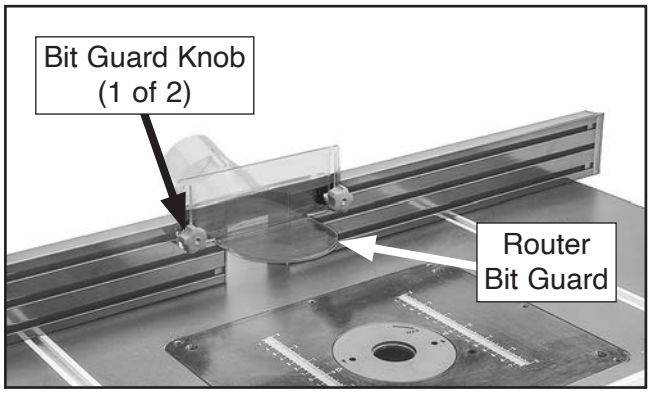


Figure 23. Router bit guard installed.

19. Install Y-connector dust port with 2½" leg angled toward router table (see **Figure 24**), then secure with (1) ¼"-20 x ½" knob bolt.

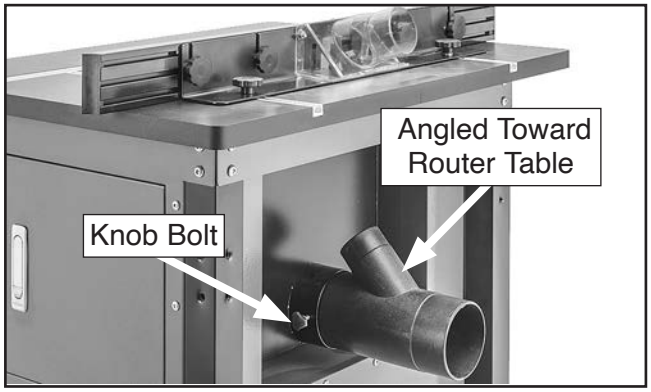


Figure 24. Y-connector dust port installed on base.

20. Attach 2½" dust hose to dust shroud and Y-connector (see **Figure 25**). Secure with 2½" hose clamps.

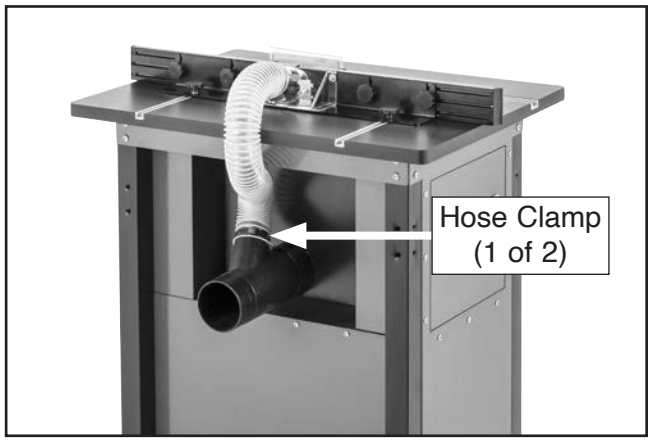


Figure 25. Dust hose installed.

Installing Router

NOTICE

Router attachment requires permanent modification of your router table mounting plate! Before attaching router, thoroughly read procedure below and make sure you can perform the required tasks.

The mounting plate included with the Model T34243 is universal and designed to attach to the bottom of your router in the same manner as the base plate of the router. We recommend using the base plate as a template for the hole pattern to be drilled through the mounting plate.

IMPORTANT: When deciding how to orient the router in relation to the router table, take into account access to router controls, such as variable speed dial, depth adjustments and other locks or levers.

Items Needed:	**Qty**
Marking Pen	1
Drill	1
Drill Bits	2
Countersink	1
Fasteners	As Needed

To attach router to mounting plate:

1. DISCONNECT ROUTER FROM POWER!

2. Insert mounting plate face up with starting pin hole to right of table insert, as shown in **Figure 26**.

Note: *Starting pin must be installed to feed into cutter rotation for free-hand routing.*

3. Mark front edge of mounting plate with tape or marking pen, then remove mounting plate (see **Figure 26**).

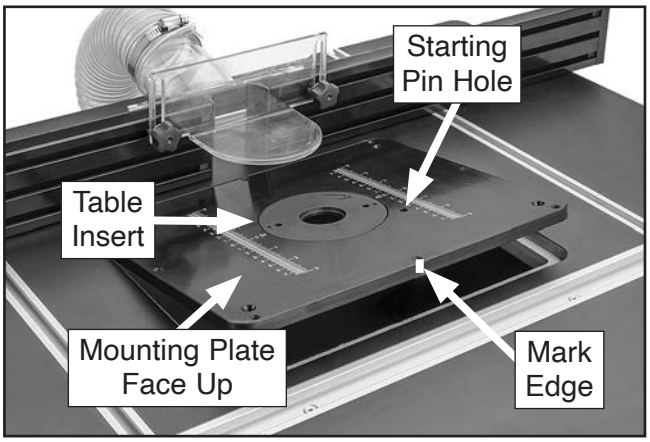


Figure 26. Edge of mounting plate marked.

4. Turn router upside down, and position so front of router faces toward you (see **Figure 27**).

5. Mark router front and base to use as guide when mounting (see **Figure 27**). Remove base and retain mounting screws.

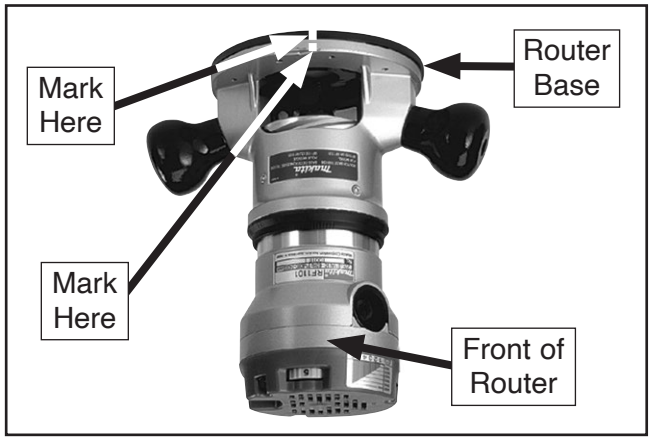


Figure 27. Example of locations to mark on router.

6. Place mounting plate face down on flat surface, with marked edge facing toward you.

7. Turn router base face down (counter sunk holes on bottom), and place on mounting plate (see **Figure 28**).

8. Center router base on mounting plate, using alignment patterns on mounting plate as guides, and align marks made in **Steps 3–5** (see **Figure 28**).

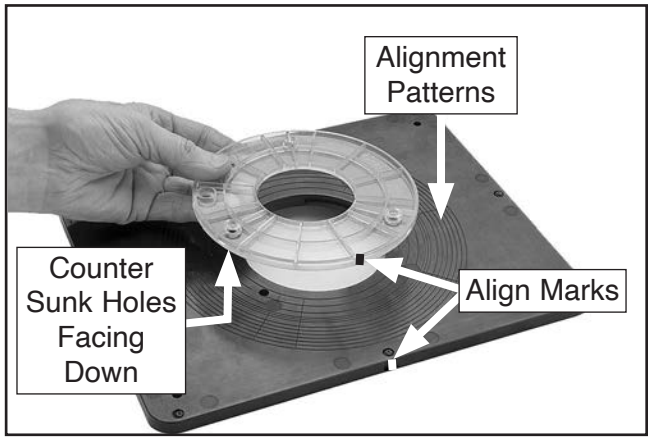


Figure 28. Example of using router base as a template to drill holes.

9. Use mounting holes in router base as a template to mark hole locations in mounting plate.

10. Remove router base, then drill matching hole sizes through bottom side of mounting plate.

11. Turn mounting plate face up, then countersink mounting holes.

12. With router upside down and front facing you, position plate on top of router, so marks are aligned (see **Figure 29**).

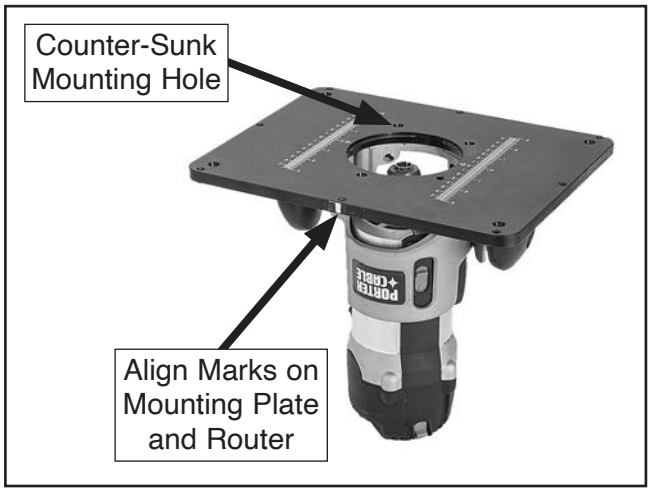


Figure 29. Example of router attached to mounting plate.

13. Secure mounting plate to router with screws removed in **Step 5**.

14. Insert assembly into router table from top.

⚠CAUTION

If router unexpectedly moves or router bit contacts plate insert or fence during operation, serious personal injury could result from the router bit or flying debris. ALWAYS make sure router is firmly secured to router table mounting plate before beginning operations.

Adjusting Casters

⚠CAUTION

To reduce risk of injury from accidental contact with spinning router bit, ALWAYS make sure router table is placed on a flat, clean surface and then leveled before router operations.

The casters on Model T34243 can be adjusted so the table does not rock during routing operation.

To adjust casters:

1. Place router table on a flat surface, and ensure all casters sit firmly on floor and router table does not rock.

   – If router table does not rock, proceed to **Step 3**.

   – If router table rocks, proceed to **Step 2**.

2. Turn caster nuts to raise or lower casters to contact floor firmly (see **Figure 30**).

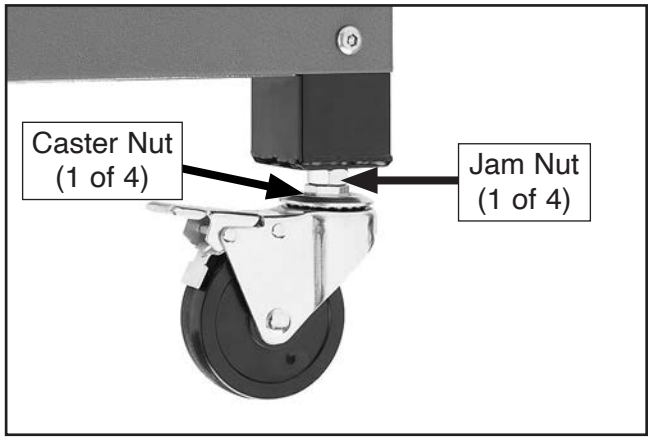


Figure 30. Caster components.

3. Tighten jam nuts against router table legs to secure casters.

Connecting Power Cords

The Model T34243 includes an electrical box with a 110V receptacle and an ON/OFF paddle switch (see **Figure 31**). The router power cord can be plugged directly into the electrical box, and the power cord on the electrical box can be plugged into a 110V outlet. This allows you to start and stop your router without having to reach into the dust box for the router ON/OFF switch.

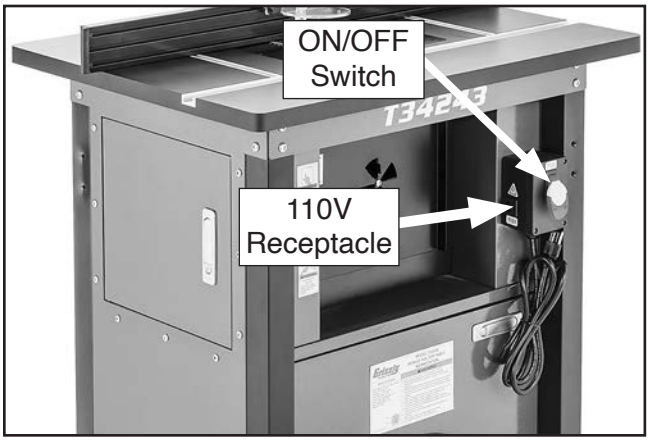


Figure 31. Location of ON/OFF switch and 110V receptacle.

To connect router and router table to power:

1. Make sure router table paddle switch is in OFF position.

2. Pass router power cord through notch on right of dust box door.

3. Plug router power cord into 110V receptacle on router table electrical box.

4. Plug router table power cord into matching power supply outlet.

Dust Collection

⚠CAUTION

This machine creates a lot of wood chips/dust during operation. Breathing airborne dust on a regular basis can result in permanent respiratory illness. Reduce your risk by wearing a respirator and capturing the dust with a dust-collection system.

Minimum CFM at Dust Port: 400 CFM

Do not confuse this CFM recommendation with the rating of the dust collector. To determine the CFM at the dust port, you must consider these variables: (1) CFM rating of the dust collector, (2) hose type and length between the dust collector and the machine, (3) number of branches or "Y"s, and (4) number of other open lines throughout the system. Explaining how to calculate these variables is beyond the scope of this manual. Consult an expert or purchase a good dust collection "how-to" book.

To connect dust collection system to machine:

1. Make sure 2½" dust hose is connected with hose clamps to dust shroud and Y-connector, as shown in **Figure 32**.

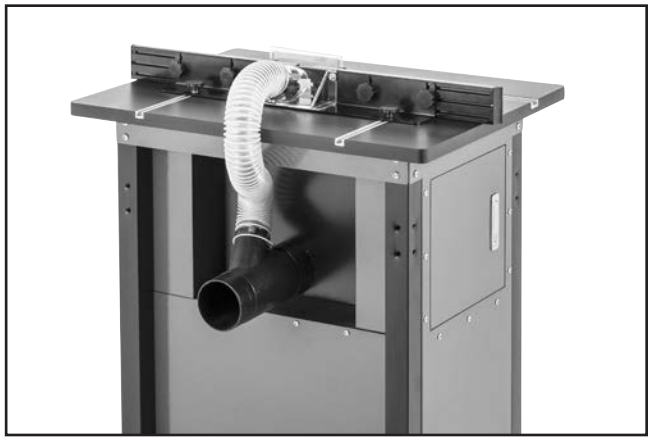


Figure 32. Dust hose installed.

2. Fit 4" dust hose over dust port, as shown in **Figure 33**, and secure in place with a hose clamp.

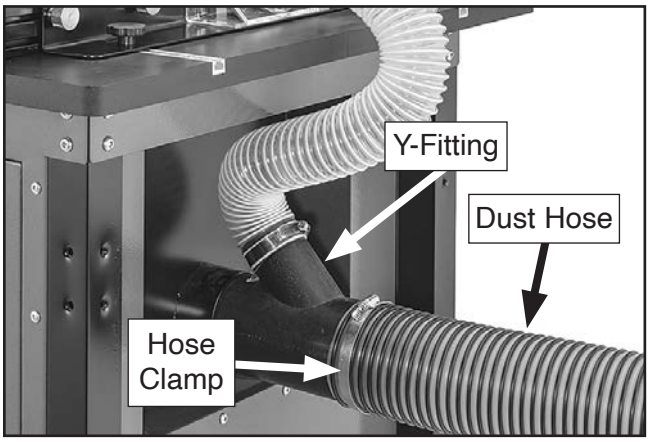


Figure 33. 4" dust hose connected Y-fitting.

3. Tug hose to make sure it does not come off.

   Note: *A tight fit is necessary for proper performance.*

Test Run

⚠WARNING

Serious injury or death can result from using this machine BEFORE understanding its controls and related safety information. DO NOT operate, or allow others to operate, machine until the information is understood.

Once assembly is complete, test run the machine to ensure it is properly connected to power and safety components are functioning correctly.

If you find an unusual problem during the test run, immediately stop the machine, disconnect it from power, and fix the problem BEFORE operating the machine again. The **Troubleshooting** table in the **SERVICE** section of this manual can help.

The Test Run consists of verifying the following: 1) The router motor powers up and runs correctly, and 2) the switch disabling key disables the switch properly.

⚠WARNING

DO NOT start machine until all preceding setup instructions have been performed. Operating an improperly set up machine may result in malfunction or unexpected results that can lead to serious injury, death, or machine/property damage.

To test run router table:

1. Clear all setup tools away from router table.
2. Make sure router table paddle switch is in OFF position.
3. Plug router power cord into receptacle in router table electrical box.
4. Reach into dust box, turn router to ON position, then close dust box door.
5. Connect router table to power supply.
6. Turn router table ***ON***, verify router operation, then turn router table ***OFF***.
7. Remove switch disabling key, as shown in **Figure 34**.

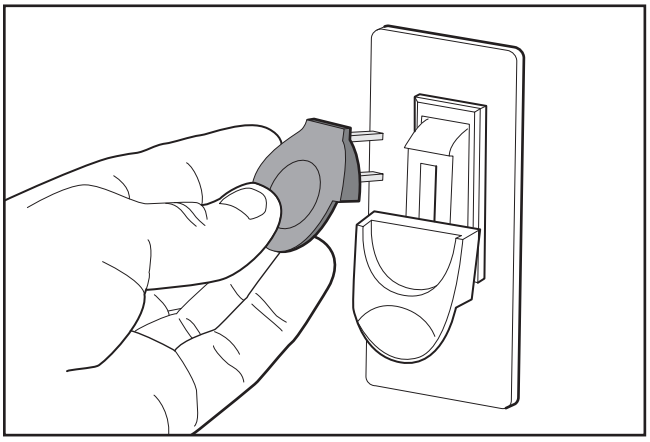


Figure 34. Removing switch key from paddle switch.

8. Try to start router with paddle switch. Router *should not* start.

   — If router *does not* start, switch disabling feature is working correctly.

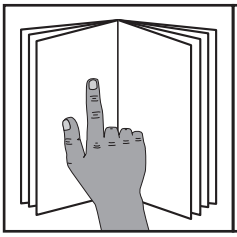
   — If router *does* start, immediately stop router and disconnect router table from power. The switch disabling feature is not working correctly. This safety feature *must* work properly before proceeding with regular operations. See **Troubleshooting** for help.

9. Install switch disabling key in paddle switch.

   Congratulations! The test run is complete. The router table is ready for operation.

SECTION 4: OPERATIONS

Operation Overview

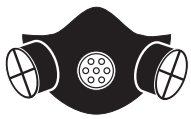


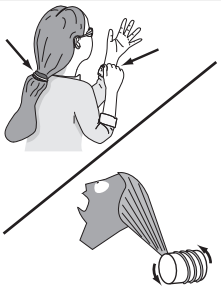
⚠WARNING

To reduce your risk of serious injury, read this entire manual BEFORE using machine.

⚠WARNING

Eye injuries, respiratory problems, or hearing loss can occur while operating this tool. Wear personal protective equipment to reduce your risk from these hazards.





⚠WARNING

Keep hair, clothing, and jewelry away from moving parts at all times. Entanglement can result in death, amputation, or severe crushing injuries!

NOTICE

If you are not experienced with this type of machine, WE STRONGLY RECOMMEND that you seek additional training outside of this manual. Read books/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.

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

1. Examines workpiece to make sure it is suitable for cutting.
2. Adjusts fences close to bit for maximum workpiece support, then secures fences in place.
3. Adjusts bit height for desired cutting profile.
4. Adjusts fence position to establish depth of cut and makes sure that it is parallel with the table T-slot.
5. Wears safety glasses and a respirator. Locates push sticks or blocks if needed.
6. Verifies direction of router bit rotation is correct for operation, then starts dust collector and router.

   IMPORTANT: For small or odd-shaped workpieces, a zero-clearance fence or jig is used.
7. Holds workpiece firmly and flatly against table and fence, then pushes workpiece into bit at a steady and controlled rate until workpiece moves completely beyond router bit.

   WARNING: Keep workpiece firmly against table and fence, and keep hands away from spinning router bit during entire cut.
8. Stops router and dust collector once operation is complete.

Stock Inspection Requirements

Always follow these rules when choosing and routing stock:

- **DO NOT cut stock that contains large or loose knots.** Injury to the operator or damage to the workpiece can occur if a knot becomes dislodged during the cutting operation.

- **DO NOT cut against the grain direction.** Cutting against the grain increases the likelihood of kickback, as well as tearout on the workpiece.

- **Routing with the grain produces a better finish and is safer for the operator.** Cutting with the grain is described as feeding the stock on the router table so the grain points down and toward you as viewed on the edge of the stock (see **Figure** below).

  Note: *If the grain changes direction along the edge of the board, decrease the cutting depth and make additional passes.*

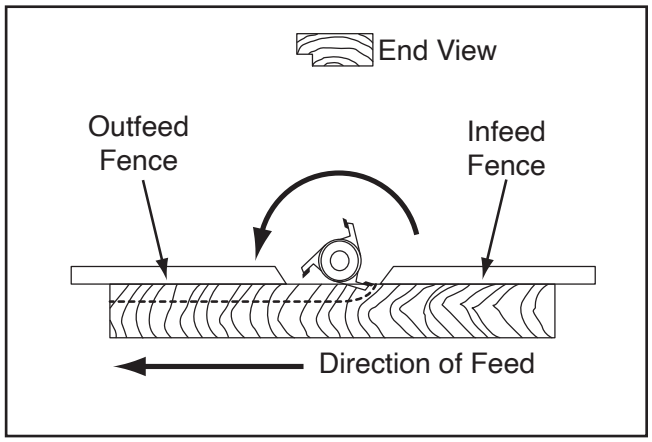


Figure 35. Proper grain alignment with the router bit.

- **Only process natural and man-made wood products.** Your router is designed to cut only natural wood fiber products. It is NOT designed to cut metal, glass, stone, tile, products with lead-based paint, or products that contain asbestos. Cutting these materials with a router may lead to injury.

- **Scrape all glue off the workpiece before jointing.** Glue deposits on the workpiece, hard or soft, will gum up the router bit, produce poor results, and increase the risk of kickback.

- **Remove foreign objects from the workpiece.** Make sure that any stock you process with the router is clean and free of dirt, nails, staples, tiny rocks, or any other foreign objects that could damage the router bit and be thrown from the machine with significant speed/force.

  Note: *Wood stacked on a concrete or dirt surface can have small pieces of concrete or stone pressed into the surface.*

- **Make sure all stock is sufficiently dried before routing.** Wood with a moisture content over 20% will cause unnecessary wear on the router bits, produce poor cutting results, and increase the risk of kickback. Excess moisture can also hasten rust and corrosion.

Table T-Slot

The Model T34243 has (1) ¾" T-slot on the table (see **Figure 36**). Typically, the ¾" T-slot is used for attaching router table accessories such as jigs or featherboards.

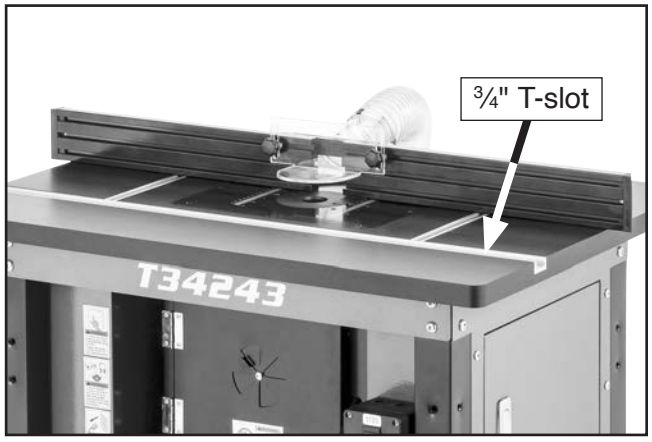


Figure 36. Location of T-slot.

Squaring Fence & Table

⚠CAUTION

To avoid workpiece kickback or binding when using a miter gauge with this router table, ALWAYS make sure fence is parallel with table T-slot before beginning routing operations.

When using a miter gauge, it is important to make sure the fence is parallel with the table T-slot. This will help ensure that the workpiece does not bind or kick back during operation. Use a fine ruler to make the distance equal between the fence and the T-slot along the full length of the table (see **Figure 37**).

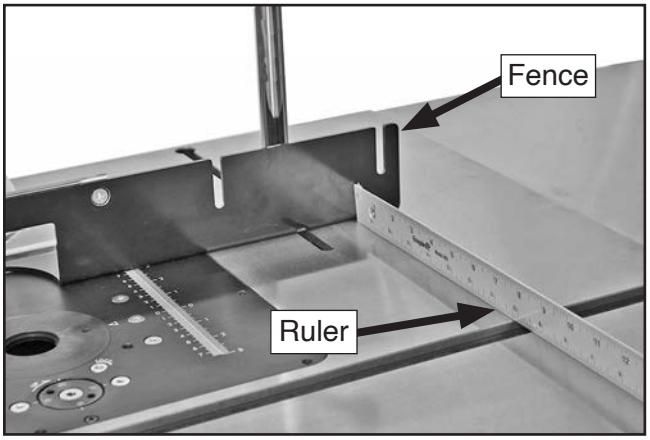


Figure 37. Adjusting fence parallel with table T-slot.

Adjusting Fence

The fence assembly on the Model T34243 has an infeed fence and an outfeed fence. These can be moved side to side to increase or decrease the space around the router bit. The infeed/outfeed fences are secured to the fence base with T-bolts and knobs (see **Figure 38**). Use the bit guard knobs and the infeed/outfeed lock knobs to adjust the fence gap. The fence base is secured to the table with two fence base lock knobs. Use these to adjust the depth of cut.

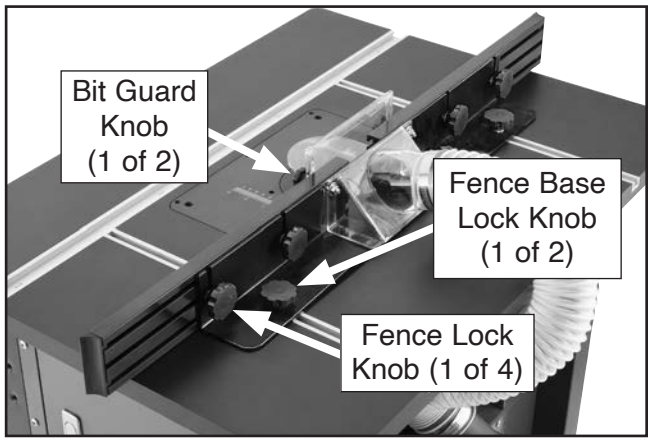


Figure 38. Location of fence adjustment knobs.

Adjusting Router Bit Guard

A clear router bit guard is included with the Model T34243 (see **Figure 39**) to provide additional safety during router operations. It secures to the fence base with two knobs and T-bolts. It adjusts vertically and allows the fences to slide horizontally.

The router bit guard should be positioned vertically about ⅛" above the workpiece, and horizontally it should be centered on the gap between the infeed and outfeed fences.

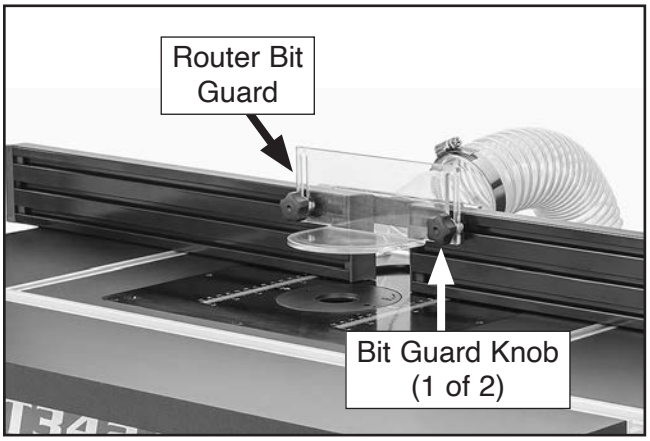


Figure 39. Location of router bit guard adjustment knobs.

Using Table Insert

The T34243 Router Table comes with a 1¼" plate insert (see **Figure 40**) that locks into the center of the mounting plate and provides additional safety and control near the router bit during router operations.

Place the table insert into the hole in the router mounting plate so the arrows are aligned on both sides. Use the included spanner wrench to turn the plate insert clockwise, approximately 10° to lock plate insert. Turn counter-clockwise to unlock.

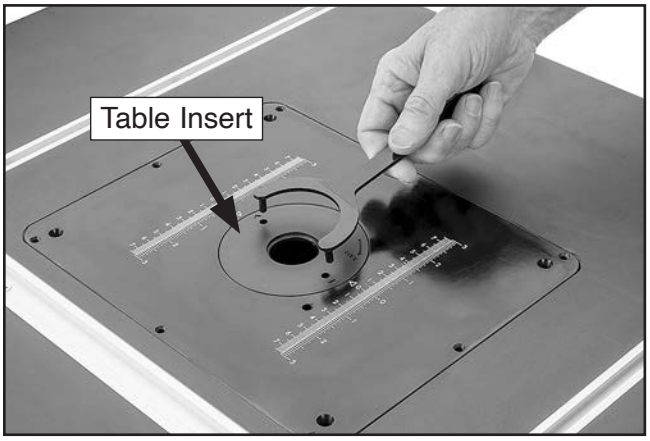


Figure 40. Table insert and spanner wrench.

Edge Jointing

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

⚠WARNING

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

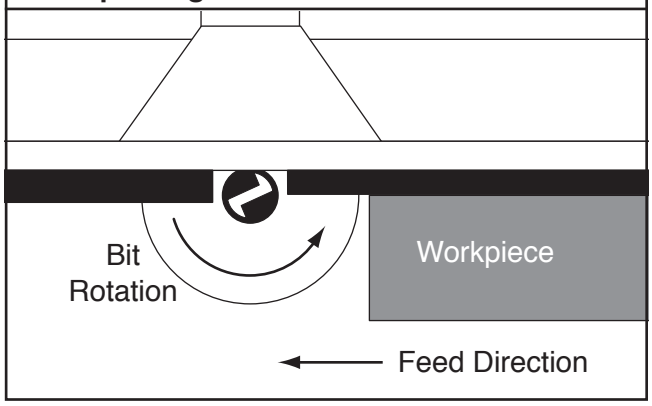


Figure 41. Spacer and hole locations.

Items Needed:	**Qty**
Spacer 1/16" thickness or less	1
Table Saw	1
Drill	1
Drill Bit 1/4"	2

To joint edge of a workpiece:

1. DISCONNECT MACHINE FROM POWER!

2. Install straight-cutting bit according to manufacturer's instructions, then install table insert.

3. Remove (2) 1/4"-20 knobs and flat washers that attach outfeed fence to fence base.

4. Make a spacer to fit between outfeed fence and fence base. Thickness of spacer should be less than 1/16" (amount of material to be removed with each pass).

   IMPORTANT: The width of the spacer controls the amount of material removed with each pass. The spacer thickness must be less than 1/16" to reduce the risk of kickback.

5. Drill (2) holes 1/4" diameter or larger through spacer. Holes should align with slots for 1/4"-20 T-bolts (see **Figure 42**).

6. Install spacer between outfeed fence and fence base, then secure outfeed fence, spacer, and fence base with knobs and flat washers removed in **Step 3**.

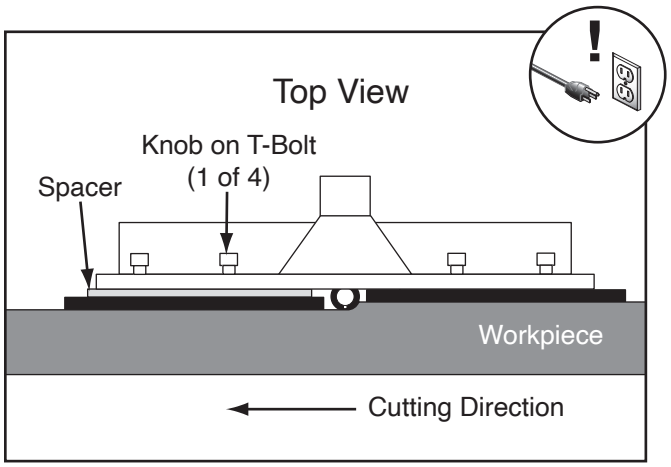


Figure 42. Spacer and hole locations.

7. Raise bit just above top of workpiece, then rotate it by hand until cutting flute is perpendicular to fence.

8. Loosen fence base knobs so entire fence assembly can slide, then place straightedge on outfeed fence.

9. Move fence base until straightedge touches bit flute, as shown in **Figure 43**. Make sure fence is square with 3/4" T-slot (see **Squaring Fence & Table** on **Page 28**).

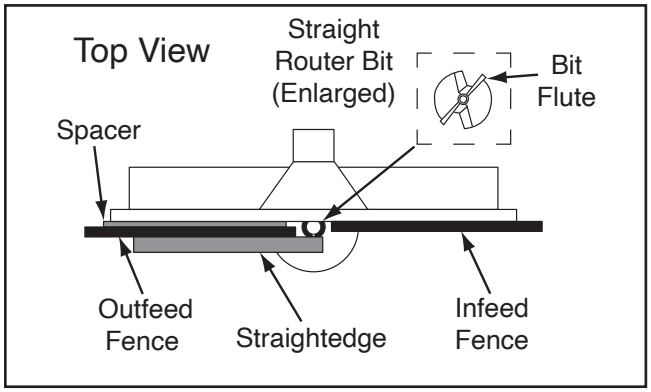


Figure 43. Fence set up for edge jointing.

10. Lock fence base in place, and tighten all knobs. Connect router table to power, then perform cut as shown in **Figure 41**.

Profile Routing

Profile routing provides a variety of options for creating a decorative edge on a workpiece. Some common examples include roundovers, coves, chamfers, and ogees.

To cut a profile into a workpiece:

1. DISCONNECT MACHINE FROM POWER!

2. Install bit in router according to router manufacturer's instructions.

3. Raise router bit to desired height, then adjust fence so it sits behind the bit at desired depth-of-cut (see **Figure 44**).

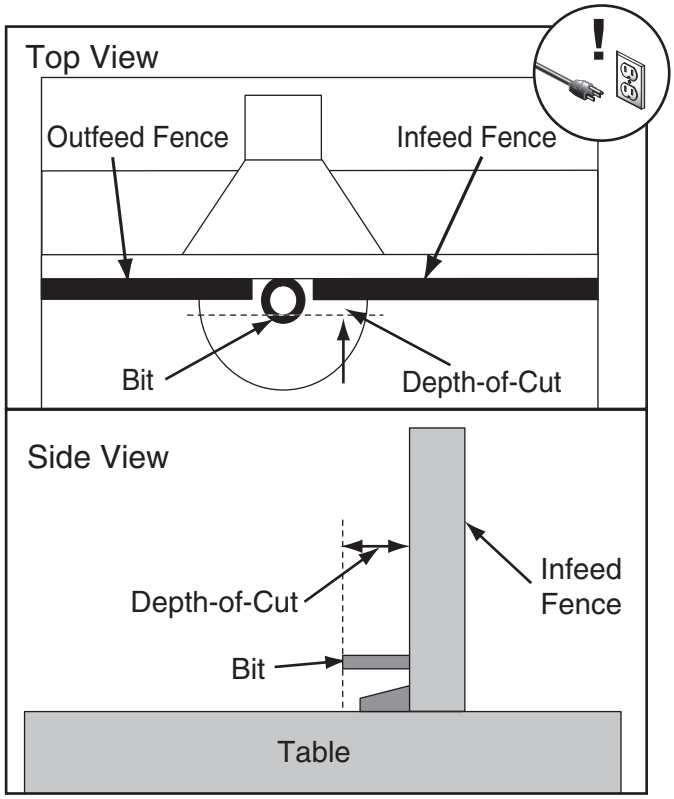


Figure 44. Groove cutting setup.

4. Make sure both infeed/outfeed fences are parallel with T-slot to ensure safe use of miter gauge (see **Squaring Fence & Table** on **Page 28**).

5. Lock fence in place, tighten all knobs, connect router table to power, then perform cut.

Routing Small Stock

Feeding small stock past the router bit increases the risk of kickback from the workpiece slipping into the space between the fence and bit. If you must rout small stock, use a zero-clearance fence.

⚠CAUTION

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

To make a zero-clearance fence:

1. DISCONNECT MACHINE FROM POWER!

2. Remove infeed/outfeed fences from fence base.

3. Select piece of straight, smooth stock that is same height and thickness as infeed/outfeed fences and approximately 36" long.

4. Cut outline of spindle and router bit from center of stock, as shown in **Figure 45**.

   Note: *Make outline as close as possible to router bit without interfering with rotation. It may be necessary to cut a larger profile to accommodate bearings or other non-cutting surfaces on router bit.*

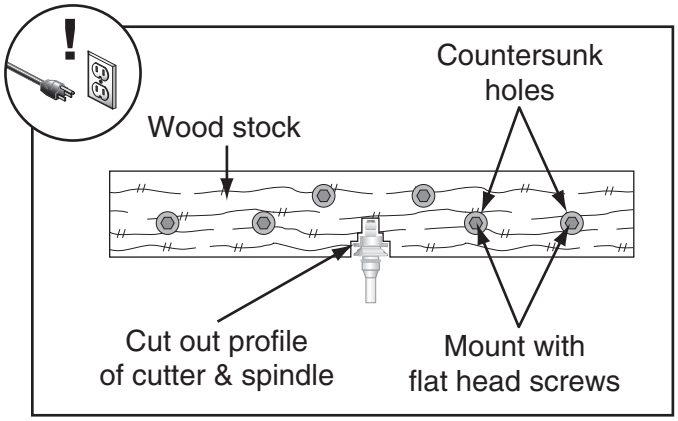


Figure 45. Zero-clearance fence board.

5. Drill countersunk mounting holes in zero-clearance fence board, aligning holes with T-slots on infeed and outfeed fences.

6. Use ¼" flat head screws and T-slot nuts to secure zero-clearance fence and router bit guard to base. Make sure screw heads are recessed or flush with fence board.

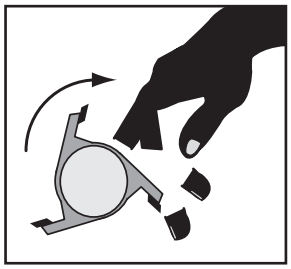
7. Make sure fence is parallel with table T-slot (**Squaring Fence & Table** on **Page 28**).

8. Check for proper clearance, connect router table to power, then make test cut to verify results.

Free-Hand (Template-Guided) Routing

Irregular or free-hand routing takes a high degree of skill and is done without protection of the fence and router bit guard. The most dangerous part of free-hand routing is beginning the cut, when the router bit first contacts the workpiece. It tends to jerk or kick back, presenting an injury hazard.

⚠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.

To reduce likelihood of kickback when free-hand routing, use starting pin (see **Figure 46**) or block (see **Figure 47**). This will allow you to anchor and slowly pivot workpiece into bit as cut is started, making operation more stable and safe.

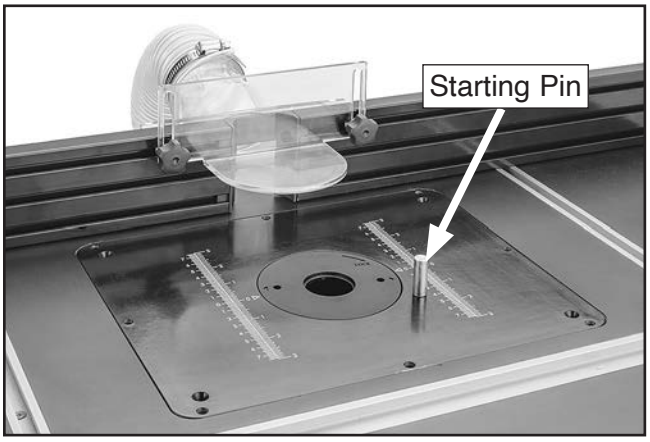


Figure 46. Router table set up with starting pin for free-hand routing.

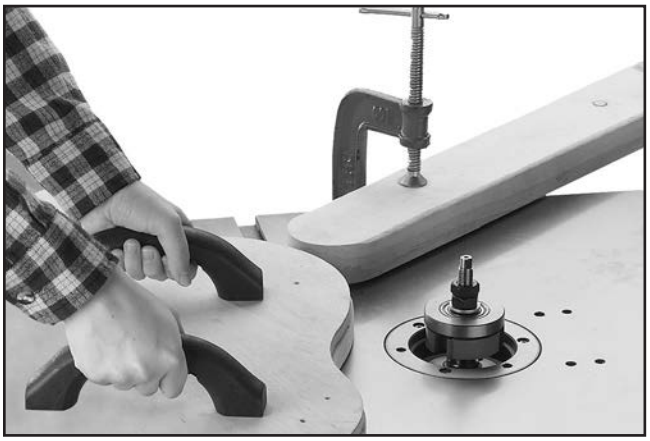


Figure 47. Example of using a template jig with a starting block.

⚠WARNING

ALWAYS use an auxiliary jig and extreme care when free-hand routing. Routing without fence and router bit guard greatly increases risk of accidental contact with spinning router bit, causing serious personal injury.

To free-hand rout using a template:

1. DISCONNECT MACHINE FROM POWER!

2. Fabricate a jig to use with workpiece that matches desired finished shape, then attach it to workpiece (see **Figure 47**).

   Note: *Make sure any fasteners used will not make contact with the router bit during routing operation. Hot glue or double-sided carpet tape can be used as an alternative.*

3. Remove fence from table.

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

5. Insert starting pin in hole on mounting plate (see **Figure 46**) or clamp a starting block to table (see **Figure 47**).

6. Install a router bit with bearing guide as directed by router manufacturer's instructions, then raise it to desired height to contact edge of template (see **Figure 48**).

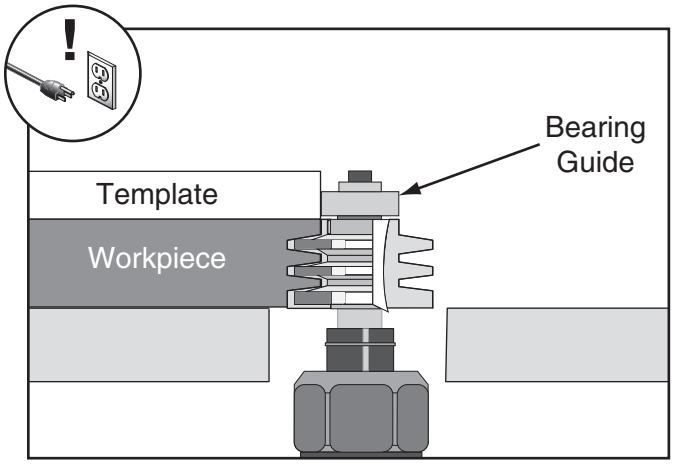


Figure 48. Using a template and bearing guide for free-hand routing.

7. Rest workpiece against starting pin (see **Figure 49**), turn router ***ON***, then slowly pivot and feed workpiece into router bit. After cut is started, move workpiece against guide bearing and away from starting pin.

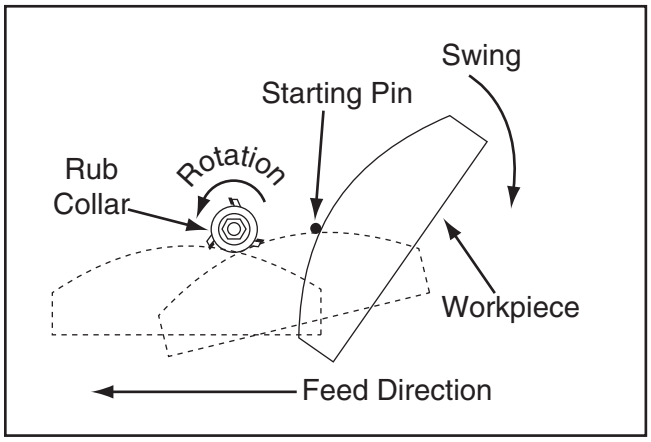


Figure 49. Free-hand routing using starting pin.

SECTION 5: ACCESSORIES

⚠WARNING

Installing unapproved accessories may cause machine to malfunction, resulting in serious personal injury or machine damage. To reduce this risk, only install accessories recommended for this machine by Grizzly.

NOTICE

Refer to our website or latest catalog for additional recommended accessories.

H5555—20 Pc. Carbide ½" Router Bit Set
This is an excellent combination of micro grain, carbide-tipped router bits in one set. This 20-piece ¼" shank comes in a wooden box and includes the following bits: 5/32" & ¼" Roman ogee, ¼", ½" & ¾" straight 45-degree chamfer, ¼" & ½" roundover, ⅜" rabbeting, ⅜" & ½" dovetail, ¼" & ½" cove, ½" & ⅜" core box, ½" flush trim, ¼" combination panel bit, ½" 90-deg. V-groove, ⅜" & ½" beading.

Figure 50. Model H5555 20-Pc. ½" shank router bit set.

T10456—Heavy-Duty Anti-Fatigue Mat 3' x 5'
This Heavy-Duty Anti-Fatigue Mat features beveled edges and no-slip tread for safety and comfort. Open-hole design allows liquid to drain through, so it's perfect for wet or oily conditions. Measures 3' wide x 5' long x ⅜" thick.

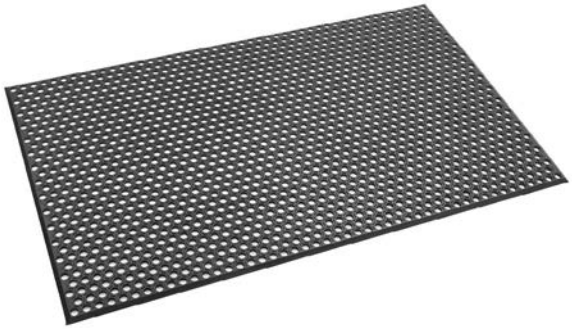


Figure 51. T10456 Anti-Fatigue Mat.

T21778—The Router: A Beginner's Guide DVD
The router is the heart of any woodworking shop, and for new woodworkers learning to use this indispensable tool, this DVD is your ticket to a solid foundation of routing skills. Topics include basic operation techniques, router safety, holding a workpiece, and a handful of projects for the home.

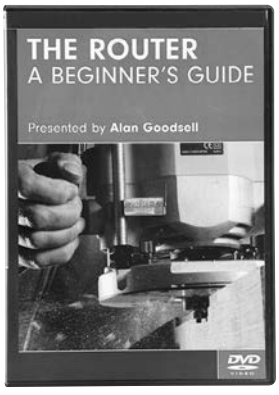
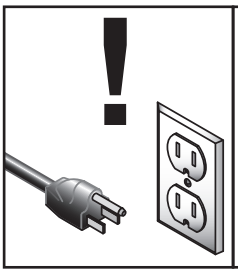


Figure 52. Model T21778 The Router: A Beginner's Guide DVD.

SECTION 6: MAINTENANCE



⚠WARNING
To reduce risk of shock or accidental startup, always disconnect machine from power before adjustments, maintenance, or service.

Schedule

For optimum performance from this machine, this maintenance schedule must be strictly followed.

Ongoing
To minimize your risk of injury and maintain proper machine operation, shut down the machine immediately if you ever observe any of the items below, and fix the problem before continuing operations:

- Loose router mounting fasteners.
- Loose mounting plate fasteners.
- Loose stand and table fasteners.
- Worn or damaged cords/plugs.
- Any other unsafe condition.

Weekly Check
- Clean/vacuum dust buildup from inside dust box and off of router.

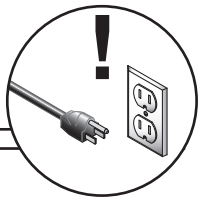
Cleaning & Protecting

Vacuum excess sawdust and wipe off the remaining dust with a dry cloth. If any resin has built up, use a resin dissolving cleaner to remove it.

SECTION 7: SERVICE

Review the troubleshooting procedures in this section if a problem develops with your machine. If you need replacement parts or additional help with a procedure, call our Technical Support. **Note:** *Please gather the serial number and manufacture date of your machine before calling.*

Troubleshooting



Electrical

Symptom	Possible Cause	Possible Solution
Machine does not start.	1. Switch disabling key removed. 2. Router not connected to router table switch. 3. Incorrect power supply voltage or circuit size. 4. ON/OFF switch at fault.	1. Install switch disabling key. 2. Connect router to router table switch (**Page 23**). 3. Ensure correct power supply voltage and circuit size (**Page 10**). 4. Test/replace switch.

Operations

Symptom	Possible Cause	Possible Solution
Workpiece kicks back toward operator.	1. Taking too deep of cut. 2. Workpiece is warped, rough, has high moisture content, or loose/large knots.	1. Make several passes of light cuts. 2. Inspect workpiece; only use smooth, dry stock without loose/large knots (**Page 27**).
Workpiece catches on mounting plate.	1. Mounting plate and table not evenly aligned.	1. Align mounting plate (**Page 37**).
Workpiece catches on infeed/outfeed fences.	1. Fence and table T-slot not squared. 2. Workpiece too small for fence.	1. Square fence and table T-slot (**Page 28**). 2. Create zero-clearance fence for operation (**Page 31**).
Workpiece is burned when cut.	1. Router bit dull. 2. Feed rate too slow. 3. Depth of cut too deep. 4. Pitch build-up on router bit.	1. Replace router bit. 2. Increase feed rate. 3. Take a smaller depth of cut. Always reduce cutting depth when working with hard woods. 4. Clean router bit with blade and bit cleaning solution.
Fuzzy grain.	1. Wood may have high moisture content or surface wetness. 2. Router bit dull.	1. Inspect workpiece moisture content; allow to dry if moisture is more than 20% (**Page 27**). 2. Replace router bit.
Chipping.	1. Cutting against wood grain. 2. Nicked or chipped router bit. 3. Feeding workpiece too fast. 4. Depth of cut too deep. 5. Knots or conflicting grain direction in wood.	1. Cut with grain of wood (**Page 27**). 2. Replace router bit. 3. Decrease feed rate. 4. Take a smaller depth of cut. (Always reduce cutting depth when working with hard woods.) 5. Inspect workpiece for knots and grain direction; only use clean stock (**Page 27**).
Divots in edge of cut.	1. Inconsistent feed speed. 2. Inconsistent pressure against fence. 3. Fence not adjusted correctly.	1. Move workpiece smoothly. 2. Apply consistent pressure. 3. Adjust fence.

Aligning Mounting Plate

To ensure a workpiece does not catch on the mounting plate and cause kickback, the mounting plate must be aligned evenly with the top of the table.

Tools Needed: **Qty**
Hex Wrench 3mm..... 1
Straightedge 48"..... 1

To align mounting plate:

1. DISCONNECT MACHINE FROM POWER!

2. Remove fence assembly from router table.

3. Lay straightedge across mounting plate, table insert, and table surfaces (see **Figure 53**) in pattern shown in **Figure 54**.

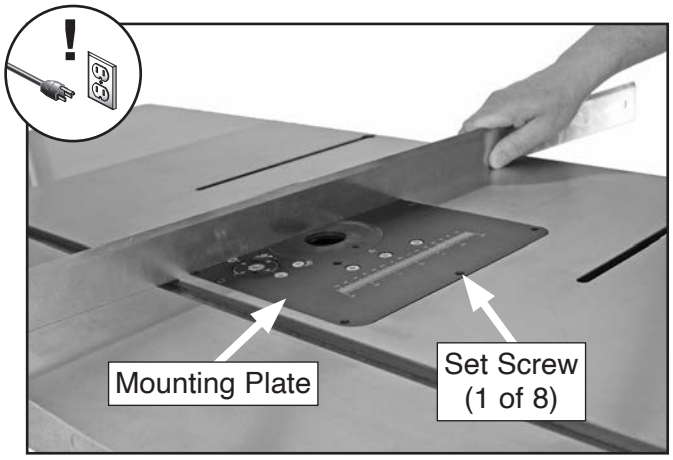


Figure 53. Example of using a straightedge to align mounting plate with table surface.

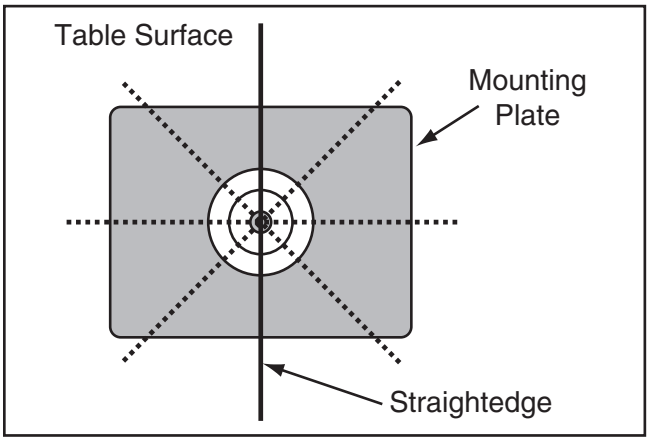


Figure 54. Pattern for aligning mounting plate to table.

4. Adjust set screws (see **Figure 53**) in mounting plate as necessary so that straightedge lies flat on table surface at all positions of pattern.

5. Repeat **Steps 3–4** as needed until mounting plate is aligned with table surface.

6. Install fence assembly.

SECTION 8: WIRING

These pages are current at the time of printing. However, in the spirit of improvement, we may make changes to the electrical systems of future machines. Compare the manufacture date of your machine to the one stated in this manual, and study this section carefully.

If there are differences between your machine and what is shown in this section, call Technical Support at (570) 546-9663 for assistance BEFORE making any changes to the wiring on your machine. An updated wiring diagram may be available. **Note:** *Please gather the serial number and manufacture date of your machine before calling. This information can be found on the main machine label.*

⚠WARNING
Wiring Safety Instructions

SHOCK HAZARD. Working on wiring that is connected to a power source is extremely dangerous. Touching electrified parts will result in personal injury including but not limited to severe burns, electrocution, or death. Disconnect the power from the machine before servicing electrical components!

MODIFICATIONS. Modifying the wiring beyond what is shown in the diagram may lead to unpredictable results, including serious injury or fire. This includes the installation of unapproved aftermarket parts.

WIRE CONNECTIONS. All connections must be tight to prevent wires from loosening during machine operation. Double-check all wires disconnected or connected during any wiring task to ensure tight connections.

CIRCUIT REQUIREMENTS. You MUST follow the requirements at the beginning of this manual when connecting your machine to a power source.

WIRE/COMPONENT DAMAGE. Damaged wires or components increase the risk of serious personal injury, fire, or machine damage. If you notice that any wires or components are damaged while performing a wiring task, replace those wires or components.

MOTOR WIRING. The motor wiring shown in these diagrams is current at the time of printing but may not match your machine. If you find this to be the case, use the wiring diagram inside the motor junction box.

CAPACITORS/INVERTERS. Some capacitors and power inverters store an electrical charge for up to 10 minutes after being disconnected from the power source. To reduce the risk of being shocked, wait at least this long before working on capacitors.

EXPERIENCING DIFFICULTIES. If you are experiencing difficulties understanding the information included in this section, contact our Technical Support at (570) 546-9663.

NOTICE

The photos and diagrams included in this section are best viewed in color. You can view these pages in color at www.grizzly.com.

COLOR KEY

BLACK	Bk	BLUE	Bl	YELLOW	Yl	LIGHT BLUE	Lb
WHITE	Wt	BROWN	Br	YELLOW GREEN	Yg	BLUE WHITE	Bw
GREEN	Gn	GRAY	Gy	PURPLE	Pu	TURQUOISE	Tu
RED	Rd	ORANGE	Or	PINK	Pk		

Wiring Diagram

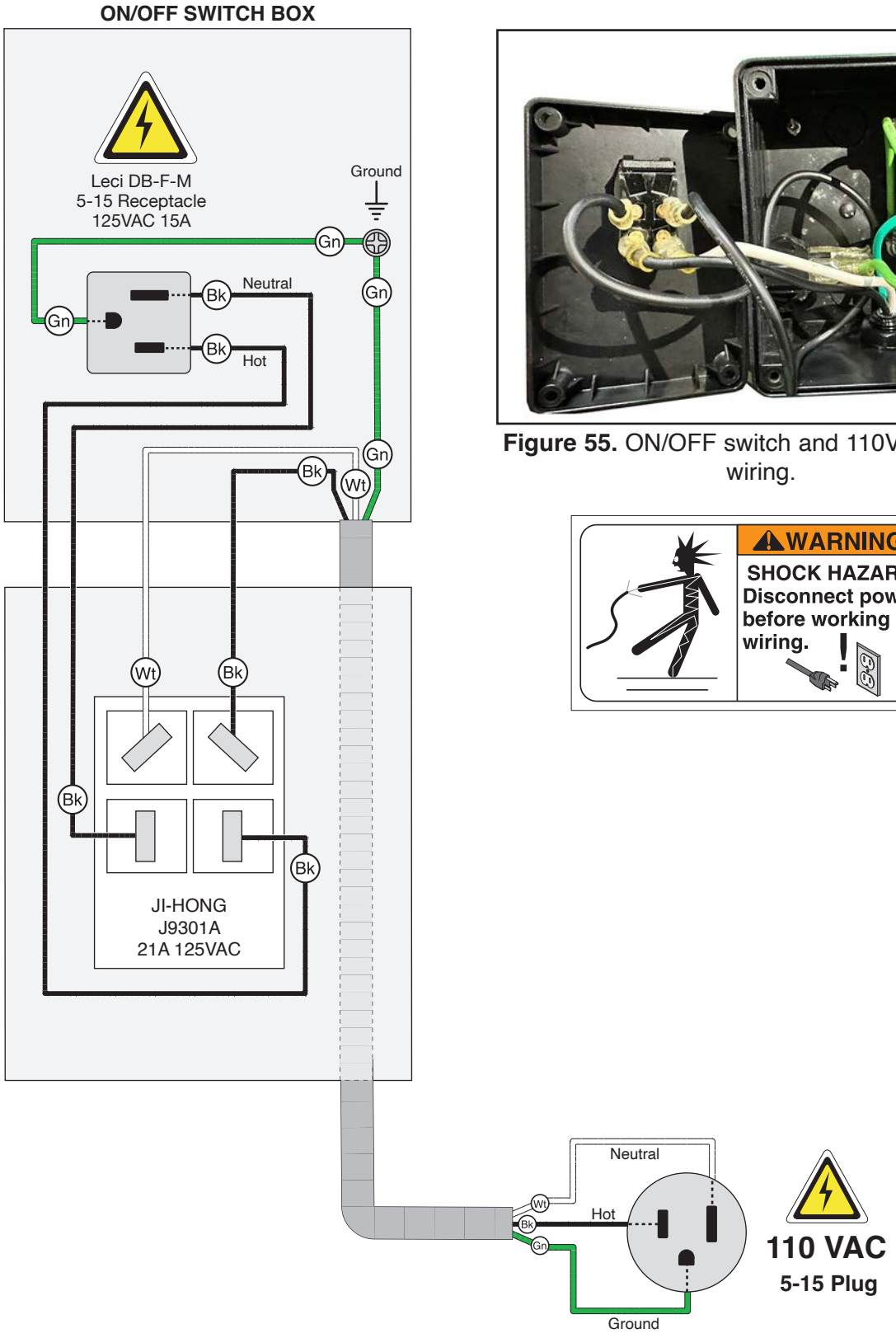
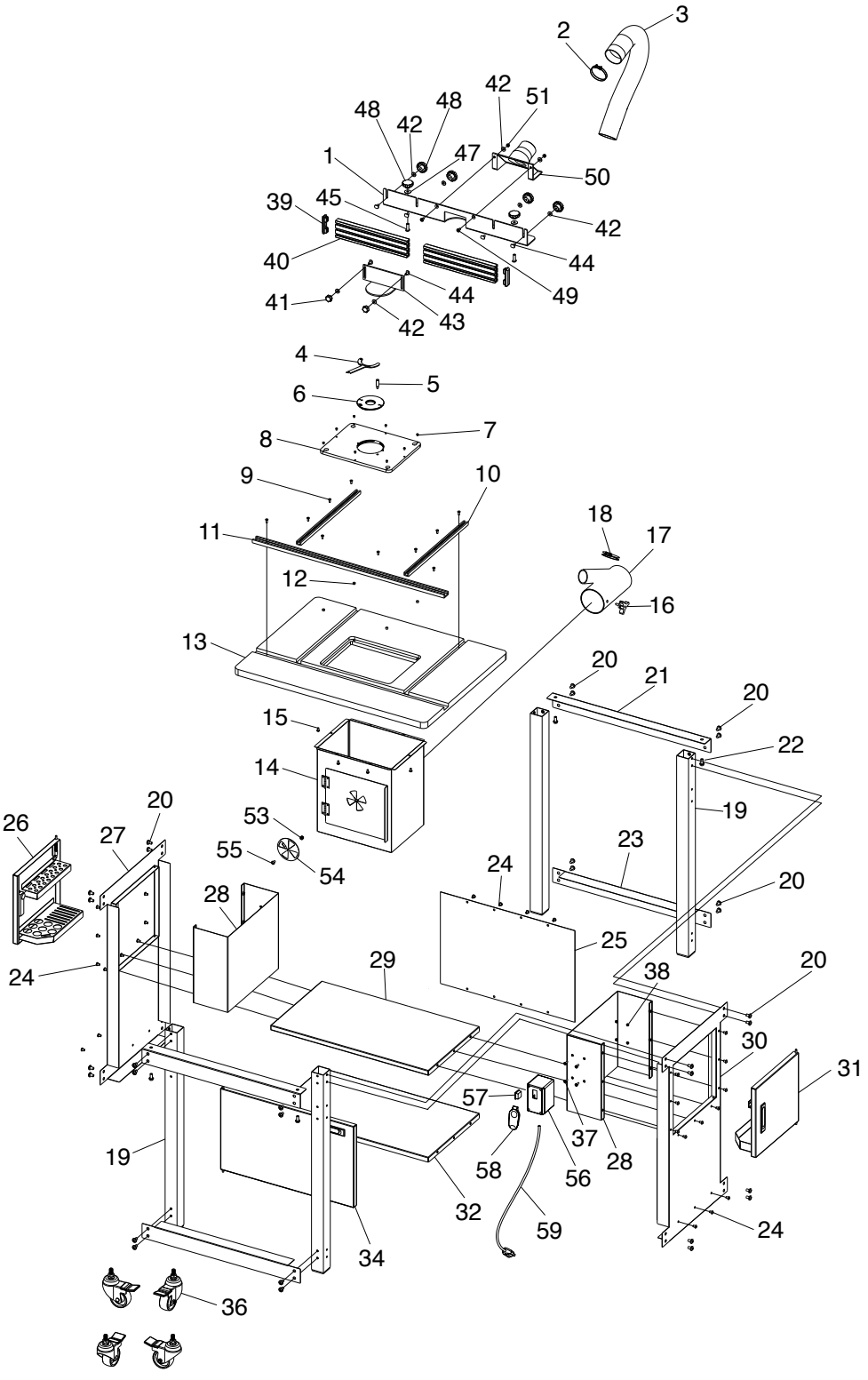


Figure 55. ON/OFF switch and 110V receptacle wiring.

SECTION 9: PARTS

We do our best to stock replacement parts when possible, but we cannot guarantee that all parts shown are available for purchase. Call **(800) 523-4777** or visit **www.grizzly.com/parts** to check for availability.

Main

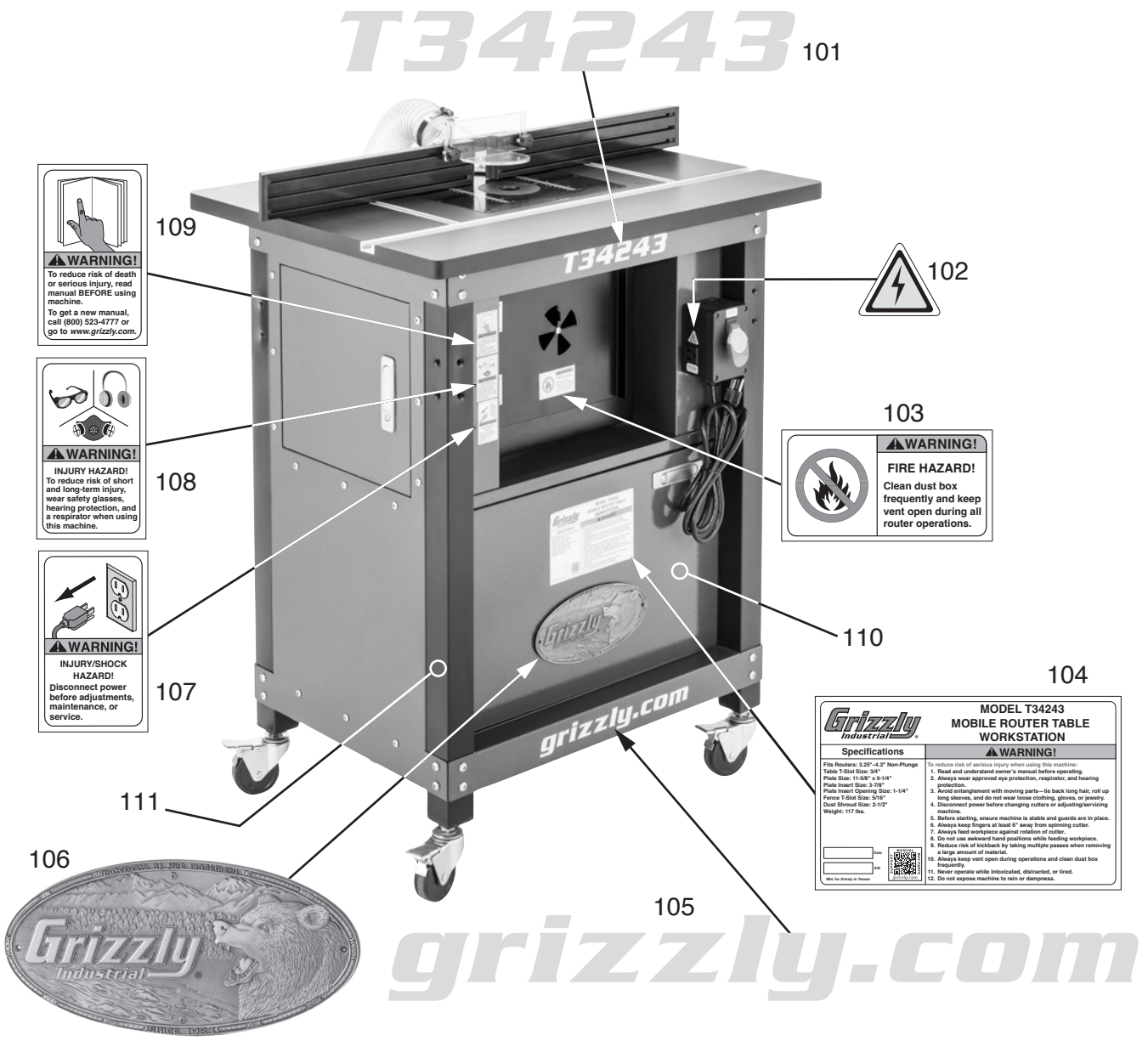


Main Parts List

REF	PART #	DESCRIPTION
1	PT34243001	FENCE BASE
2	PT34243002	WIRE HOSE CLAMP 2"
3	PT34243003	DUST HOSE 2-1/2" X 28"
4	PT34243004	SPANNER WRENCH 70MM PIN-TYPE
5	PT34243005	STARTING PIN
6	PT34243006	INSERT 1-1/4"
7	PT34243007	SET SCREW M6-1 X 6
8	PT34243008	MOUNTING PLATE 11-5/8" X 9-1/4"
9	PT34243009	FLAT HD SCR 10-24 X 1/2
10	PT34243010	T-TRACK 5/16" X 17-1/8"
11	PT34243011	T-TRACK 3/4" X 31-3/4"
12	PT34243012	MAGNET 8 X 5MM
13	PT34243013	TABLE
14	PT34243014	DUST BOX
15	PT34243015	PHLP HD SCR 10-24 X 3/8
16	PT34243016	KNOB BOLT 1/4-20 X 1/2
17	PT34243017	Y-FITTING 4" X 4" X 2-1/2"
18	PT34243018	WIRE HOSE CLAMP 2"
19	PT34243019	LEG
20	PT34243020	BUTTON HD CAP SCR 5/16-18 X 1/2
21	PT34243021	BRACE, UPPER
22	PT34243022	FLANGE BOLT 5/16-18 X 1/2
23	PT34243023	BRACE, LOWER
24	PT34243024	BUTTON HD CAP SCR 1/4-20 X 1/2
25	PT34243025	PANEL, BACK
26	PT34243026	DOOR, LEFT
27	PT34243027	SIDE PANEL, LEFT
28	PT34243028	SIDE PARTITION

REF	PART #	DESCRIPTION
29	PT34243029	SHELF, MIDDLE
30	PT34243030	SIDE PANEL, RIGHT
31	PT34243031	DOOR, RIGHT
32	PT34243032	SHELF, BOTTOM
34	PT34243034	DOOR, FRONT
36	PT34243036	CASTER 3" LOCKING SWIVEL
37	PT34243037	PHLP HD SCR 10-24 X 5/8
38	PT34243038	LOCK NUT 10-24
39	PT34243039	END CAP
40	PT34243040	INFEED/OUTFEED FENCE
41	PT34243041	KNOB 1/4-20
42	PT34243042	FLAT WASHER 1/4
43	PT34243043	ROUTER BIT GUARD
44	PT34243044	CARRIAGE BOLT 1/4-20 X 3/4
45	PT34243045	T-BOLT 5/16-18 X 3/4
47	PT34243047	FLAT WASHER 1/4
48	PT34243048	KNOB 1/4-20
49	PT34243049	FLAT HD SCR 1/4-20 X 5/8
50	PT34243050	DUST SHROUD 2-1/2"
51	PT34243051	HEX NUT 1/4-20
53	PT34243053	LOCK NUT 1/4-20
54	PT34243054	DUST BOX VENT PLATE
55	PT34243055	BUTTON HD CAP SCR 1/4-20 X 1/2
56	PT34243056	SWITCH BOX
57	PT34243057	ELECTRICAL OUTLET 15A 125V
58	PT34243058	ON/OFF PADDLE SWITCH 125V
59	PT34243059	POWER CORD 14G 3W 72" 5-15P

Labels & Cosmetics



REF	PART #	DESCRIPTION
101	PT34243101	MODEL NUMBER LABEL
102	PT34243102	ELECTRICITY LABEL
103	PT34243103	FIRE HAZARD LABEL
104	PT34243104	MACHINE ID LABEL
105	PT34243105	GRIZZLY.COM LABEL
106	PT34243106	GRIZZLY NAMEPLATE-SMALL

REF	PART #	DESCRIPTION
107	PT34243107	SHOCK HAZARD LABEL
108	PT34243108	EYE/EAR/LUNG INJURY LABEL
109	PT34243109	READ MANUAL LABEL
110	PT34243110	TOUCH-UP PAINT, GRIZZLY GREEN
111	PT34243111	TOUCH-UP PAINT, BLACK

⚠WARNING

Safety labels help reduce the risk of serious injury caused by machine hazards. If any label comes off or becomes unreadable, the owner of this machine MUST replace it in the original location before resuming operations. For replacements, contact (800) 523-4777 or www.grizzly.com.

WARRANTY & 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.

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.

In the event you need to use 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.

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.

For further information about the warranty, visit **https://www.grizzly.com/forms/warranty** or scan the QR code below to be automatically directed to our warranty page.

WARRANTY

grizzly.com