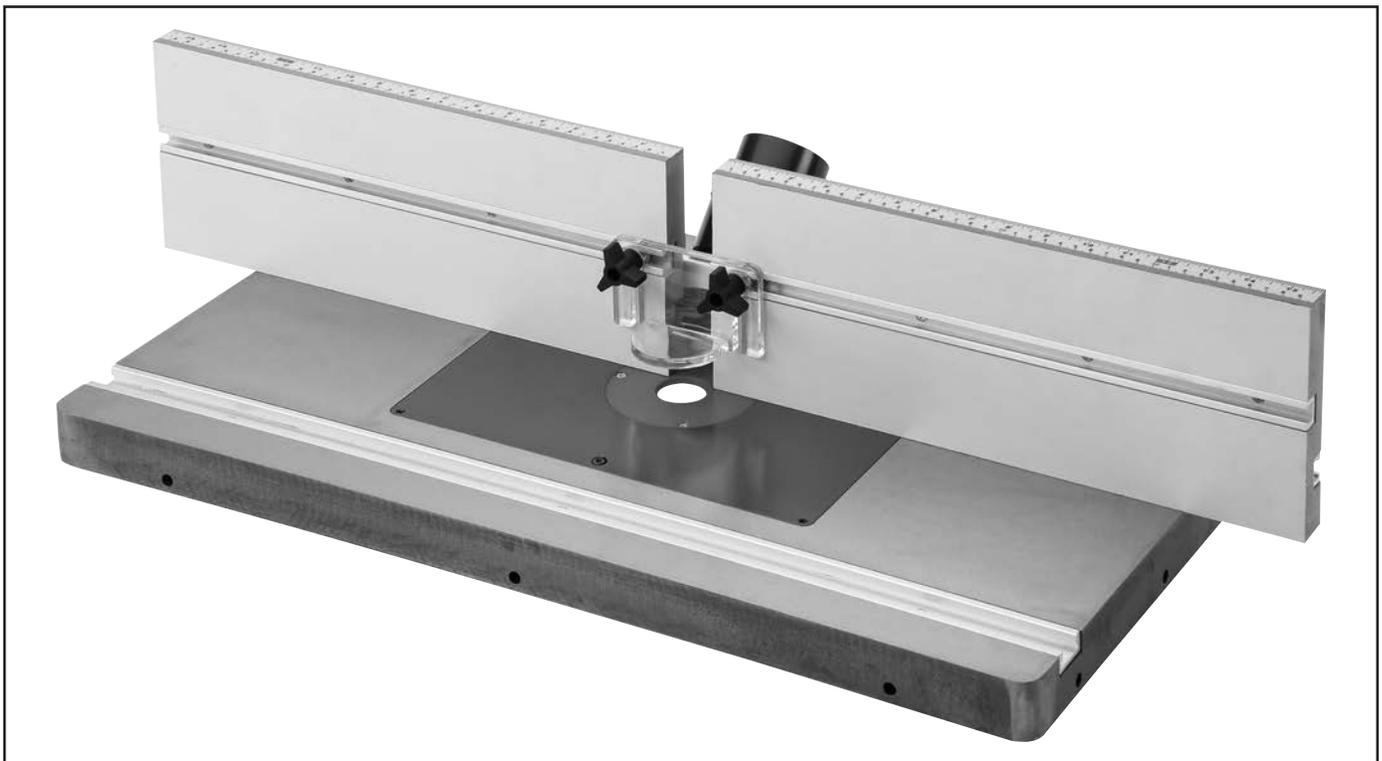


# **Grizzly** **Industrial, Inc.**®

## **MODEL T1244 ROUTER TABLE EXTENSION WING OWNER'S MANUAL** *(For models manufactured since 08/23)*



COPYRIGHT © MARCH, 2018 BY GRIZZLY INDUSTRIAL, INC., REVISED JULY, 2023 (MN)  
**WARNING: NO PORTION OF THIS MANUAL MAY BE REPRODUCED IN ANY SHAPE  
OR FORM WITHOUT THE WRITTEN APPROVAL OF GRIZZLY INDUSTRIAL, INC.**  
#KB19357 PRINTED IN CHINA

V2.07.23

**\*\*\*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.**

# Table of Contents

<b>INTRODUCTION</b> .....	<b>2</b>
Manual Accuracy.....	2
Machine Data Sheet.....	2
Contact Info.....	2
Identification.....	3
Description.....	3
<b>SECTION 1: SAFETY</b> .....	<b>4</b>
Safety Instructions for Machinery.....	4
Additional Safety for Router Tables.....	6
<b>SECTION 2: SETUP</b> .....	<b>7</b>
Unpacking.....	7
Needed for Setup.....	7
Inventory.....	8
Hardware Recognition Chart.....	9
Cleanup.....	10
Assembling Fence.....	11
Installing Extension Wing.....	12
Attaching Router to Extension Wing.....	15
Dust Collection.....	17
<b>SECTION 3: OPERATIONS</b> .....	<b>18</b>
Operation Overview.....	18
Workpiece Inspection.....	19
Adjusting Bit Guard.....	19
Adjusting Fences.....	20
Table Inserts.....	20
Squaring Fence & Table.....	21
Edge Jointing.....	21
Groove Cutting.....	22
Routing Small Stock.....	23
Free-Hand Routing.....	23
<b>SECTION 4: MAINTENANCE</b> .....	<b>25</b>
Schedule.....	25
Cleaning & Protecting.....	25
<b>SECTION 5: PARTS</b> .....	<b>26</b>
Main.....	26
<b>WARRANTY &amp; RETURNS</b> .....	<b>29</b>

# INTRODUCTION

## Manual Accuracy

We are proud to offer this document 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, immediately call our technical support for updates or clarification.

For your convenience, we post all available documentation on our website at **www.grizzly.com**. Any updates to this document will be reflected on our website as soon as complete.

## 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



## MACHINE DATA SHEET

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

### MODEL T1244 ROUTER TABLE EXTENSION WING

#### Product Dimensions:

Weight..... 53 lbs.  
Router Table Extension Wing Table Size..... 16 x 27 in.

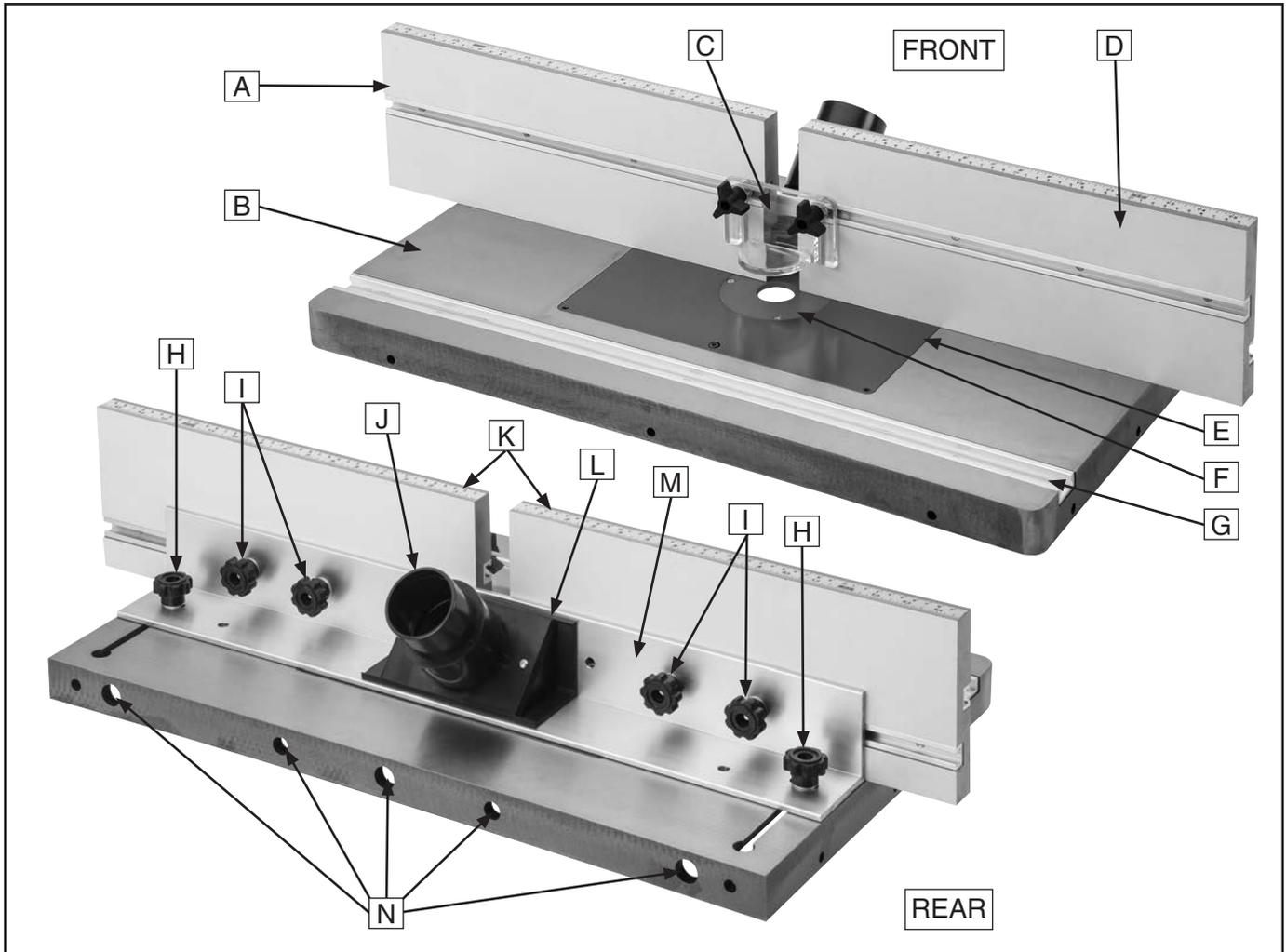
#### Main Specifications:

Mounting Plate Opening Size..... 11-3/4 x 9-1/4 in.  
Table Inserts..... 3  
Table Insert Inside Diameters..... Solid, 32mm, 37mm  
Fence Board Size (x 2)..... 6 x 15-3/4 x 1 in.  
T-Slot Size..... 3/4 in.  
Dust Port Size..... 2-1/4 - 2-1/2 in.



# Identification

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



- A. Outfeed Fence
- B. Router Table Extension Wing
- C. Cutter Guard
- D. Infeed Fence
- E. Router Mounting Plate
- F. Table Insert
- G. Table T-Slot Insert
- H. Fence Bracket Attachment Knobs
- I. Fence Adjustment Knobs
- J. 2 1/2" - 2 1/4" Dust Port Adapter
- K. Bi-Directional Scales
- L. Dust Hood w/2 1/2" Dust Port
- M. Fence Bracket
- N. Mounting Holes

## Description

The Model T1244 Router Table Extension Wing is designed for table saws with 27" tables. Slotted mounting holes allow the router table extension wing to be attached to most Grizzly table saws.



# 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 clothing, apparel 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 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 rotating 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 rotating bit.

**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.

**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.

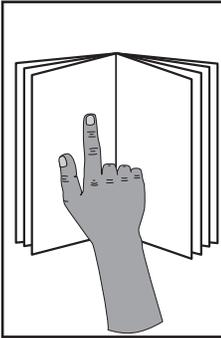
**TRIPPING HAZARD.** To prevent tripping over power cord of router when not in use, always disconnect it and safely store it out of way.

## WARNING

**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 and other machinery with caution and respect. Failure to do so may result in serious personal injury or property damage.**



# SECTION 2: SETUP



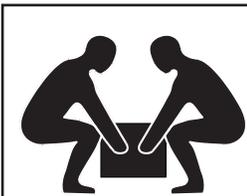
## **!WARNING**

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



## **!WARNING**

Wear safety glasses during the entire setup process!



## **!WARNING**

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

## 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.***

## **!WARNING**

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

## Needed for Setup

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

Description	Qty
• Another Person .....	1
• Safety Glasses (Per Person) .....	1 Pair
• Cleaner/Degreaser ( <b>Page 10</b> ) ....	As Needed
• Disposable Shop Rags.....	As Needed
• Straightedge 24" .....	1
• Phillips Head Screwdriver #2 .....	1
• Open-End Wrench 10mm.....	1
• Open-End Wrench 13mm.....	1
• Open-End Wrench 17mm.....	1
• Additional Wrenches .....	As Needed
• Grade 5 Fasteners ( <b>Page 13</b> ).....	As Needed
• Masking Tape .....	As Needed
• Razor Blade.....	1
• Dust-Collection System .....	1
• Dust Hose 2½" .....	1
• Hose Clamps 2½" .....	2
• Table Saw Owner's Manual.....	1
• Router Owner's Manual.....	1
• Tape or Erasable Marker.....	1
• Center Punch .....	1
• Drill .....	1
• Drill Bits .....	As Needed
• Countersink Bit.....	1
• Fasteners.....	As Needed



# 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.

Box 1 (Figure 1)	Qty
A. Dust Port 2½"	1
B. Dust Port Adapter 2½"–2¼"	1
C. Router Table Extension Wing w/Miter Slot.	1
D. Router Bit Guard	1
E. Fence Bracket	1
F. Router Mounting Plate	1
G. Fences (Infeed and Outfeed)	2
H. Fence Scales (0"–15 <sup>11</sup> / <sub>16</sub> "	2

## Hardware Bag (Figure 2)

I. Table Insert (Solid)	1
J. Knobs 8-Lobe	6
K. Table Insert (32mm ID)	1
L. Table Insert (37mm ID)	1
M. Knobs 3-Lobe	2
N. Fender Washers 6mm	2
O. T-Bolts	2
P. Square Washers 10mm	4
Q. Hex Nuts M6-1	2
R. J-Hooks	2
S. Phillips Head Screws M5-.8 x 55	2
T. Flat Head Screws M4-.7 x 5	3
U. Flat Head Screws M6-1 x 16	3
V. Hex Bolts M8-1.25 x 25	6
W. Flat Washers 8mm	6
X. Set Screws M6-1 x 10	4
Y. Starting Pin	1
Z. Hex Wrench 3mm	1
AA. Hex Wrench 4mm	1
AB. Hex Bolts M10-1.5 x 40	6
AC. Hex Bolts M8-1.25 x 40	4
AD. Cap Screws M5-.8 x 12	2
AE. Flat Washers 10mm	8
AF. Lock Washers 8mm	4
AG. Hex Nuts M8-1.25	4

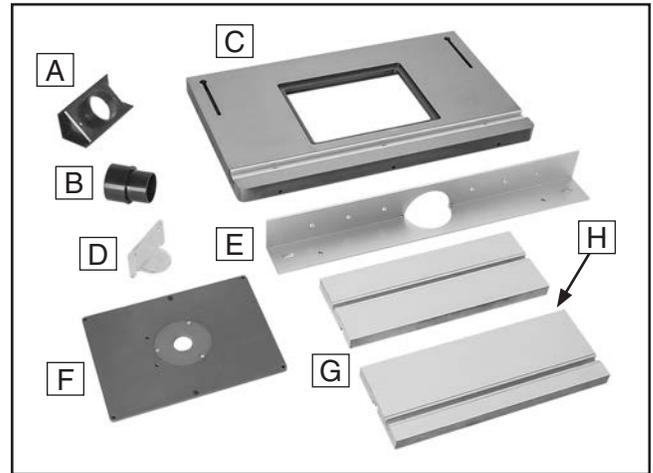


Figure 1. T1244 inventory.

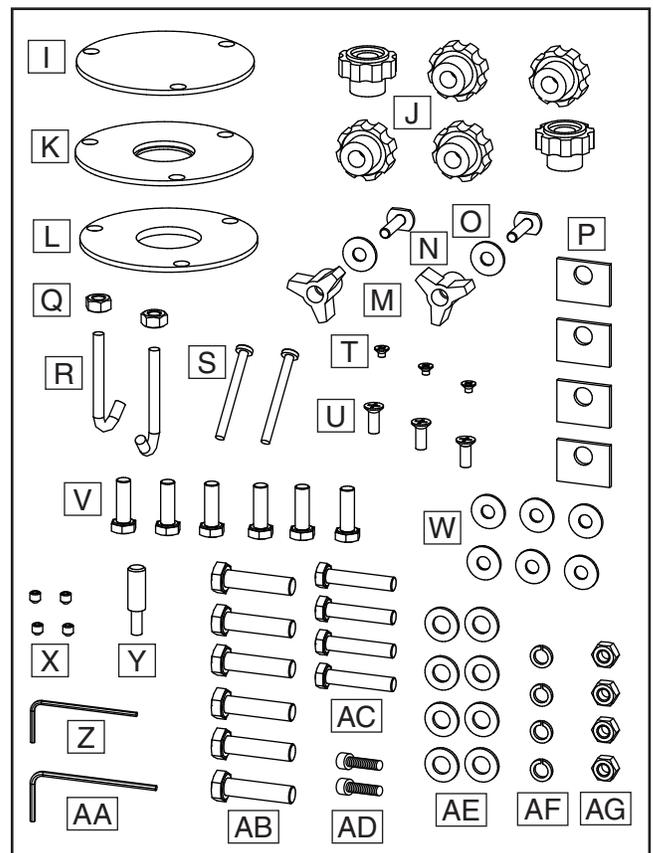


Figure 2. Hardware bag inventory.

## 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.



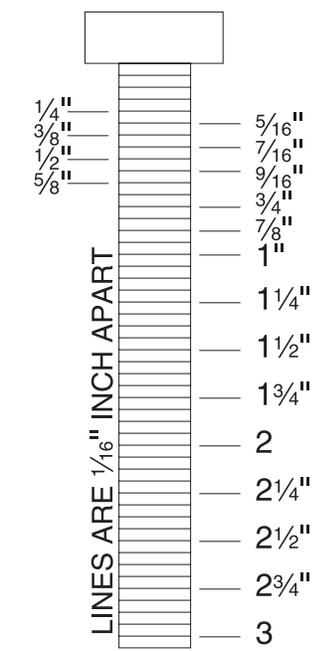
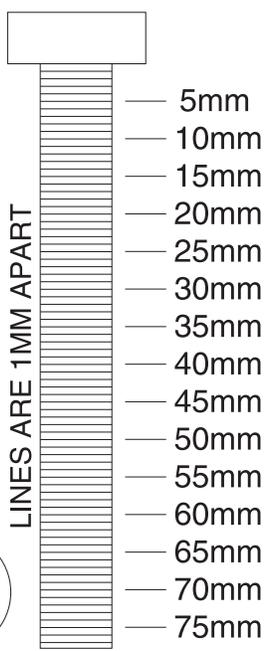
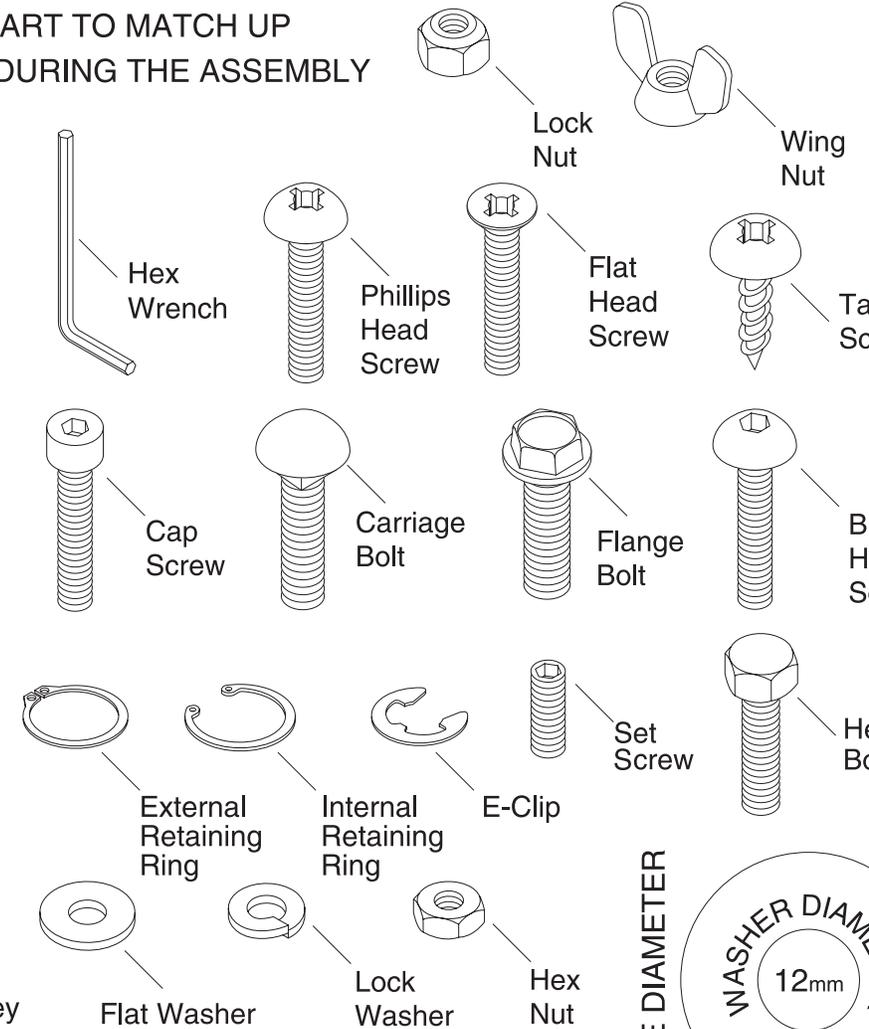
# Hardware Recognition Chart

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

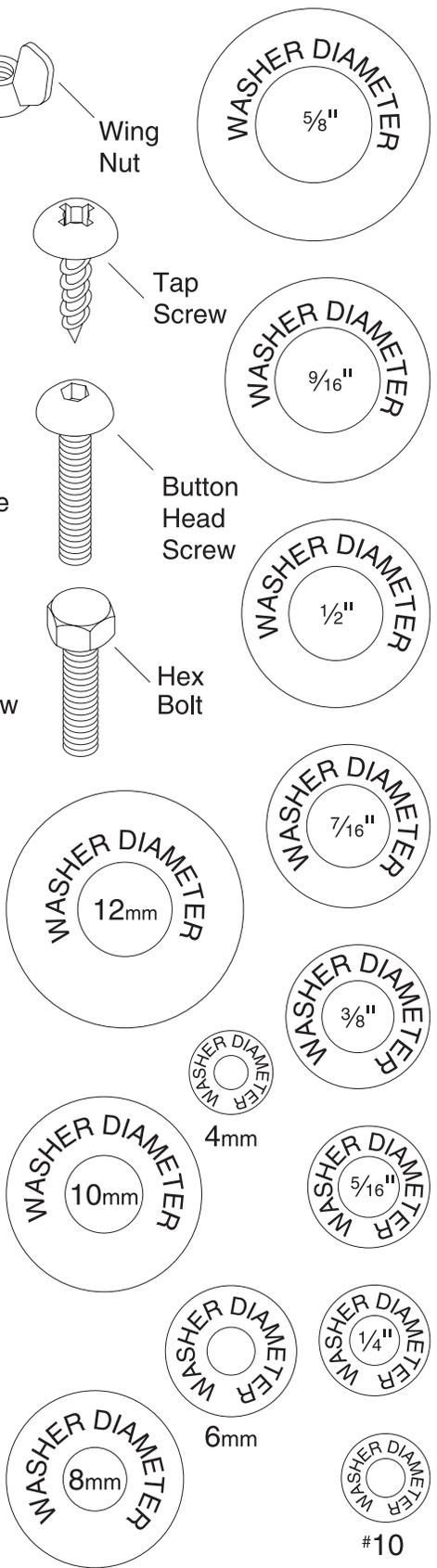
MEASURE BOLT DIAMETER BY PLACING INSIDE CIRCLE

- #10
- 1/4"
- 5/16"
- 3/8"
- 7/16"
- 1/2"

- 4mm
- 5mm
- 6mm
- 8mm
- 10mm
- 12mm
- 16mm



WASHERS ARE MEASURED BY THE INSIDE DIAMETER



# Cleanup

The unpainted surfaces of your machine are coated with a heavy-duty rust preventative that prevents corrosion during shipment and storage. This rust preventative works extremely well, but it will take a little time to clean.

Be patient and do a thorough job cleaning your machine. The time you spend doing this now will give you a better appreciation for the proper care of your machine's unpainted surfaces.

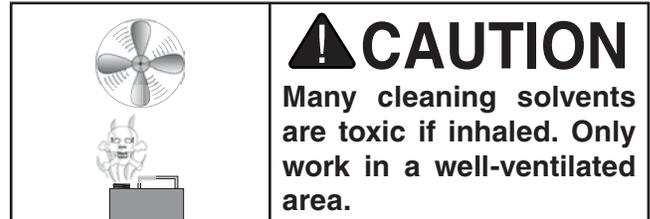
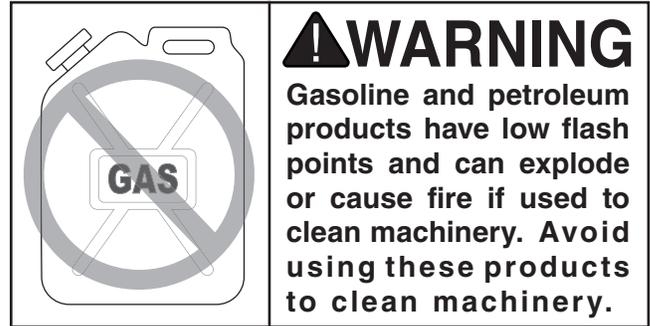
There are many ways to remove this rust preventative, but the following steps work well in a wide variety of situations. Always follow the manufacturer's instructions with any cleaning product you use and make sure you work in a well-ventilated area to minimize exposure to toxic fumes.

## Before cleaning, gather the following:

- Disposable rags
- Cleaner/degreaser (WD•40 works well)
- Safety glasses & disposable gloves
- Plastic paint scraper (optional)

## Basic steps for removing rust preventative:

1. Put on safety glasses.
2. Coat the rust preventative with a liberal amount of cleaner/degreaser, then let it soak for 5–10 minutes.
3. Wipe off the surfaces. If your cleaner/degreaser is effective, the rust preventative will wipe off easily. If you have a plastic paint scraper, scrape off as much as you can first, then wipe off the rest with the rag.
4. Repeat **Steps 2–3** as necessary until clean, then coat all unpainted surfaces with a quality metal protectant to prevent rust.



## T23692—Orange Power Degreaser

A great product for removing the waxy shipping grease from the *non-painted* parts of the machine during clean up.



Figure 3. T23692 Orange Power Degreaser.

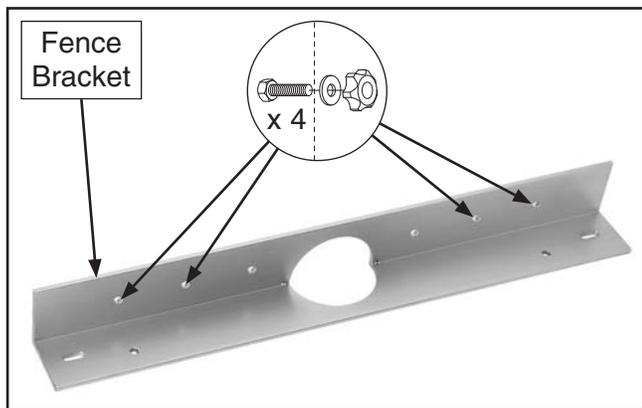


# Assembling Fence

The Model T1244 mounts on most table saws that have 27" deep tables. Assemble the fence first, then determine which side of the saw table you will use to mount the router table extension wing. The fence assembly is fully reversible.

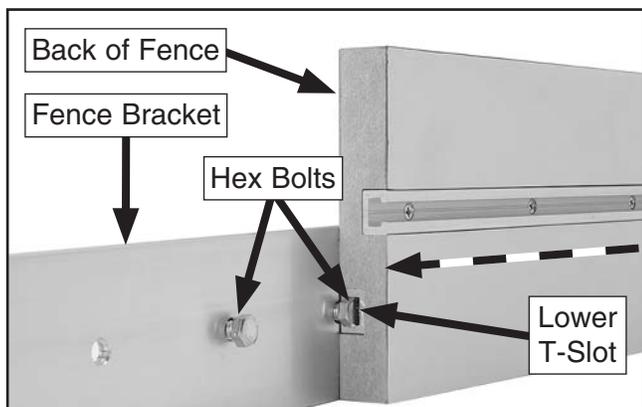
## To assemble fence:

1. Insert (4) M8-1.25 x 25 hex bolts into two outer holes on each end of fence bracket, then attach 8mm flat washer and 8-lobe knob onto each bolt, as shown in **Figure 4**. Thread loosely.



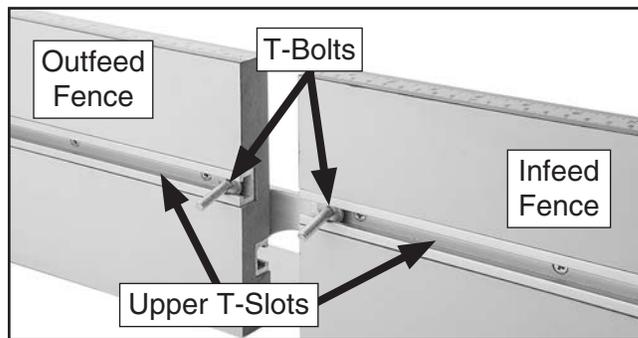
**Figure 4.** Hex bolts, flat washers, and knobs attached to left side of fence bracket.

2. Slide lower T-slot on each fence half over hex bolts installed in **Step 1**, as shown in **Figure 5**.



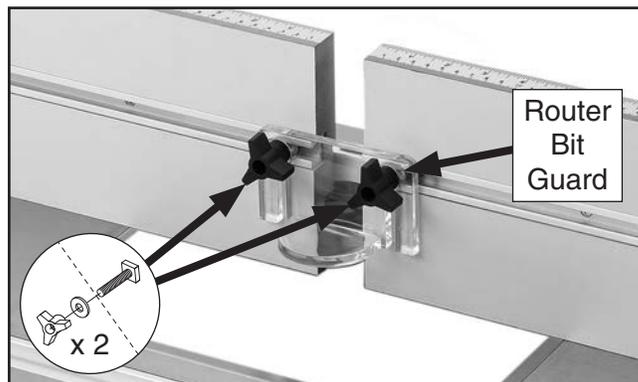
**Figure 5.** Sliding fence half onto fence bracket hex bolts.

3. Slide one T-bolt into each upper T-slot on infeed and outfeed fences (see **Figure 6**).



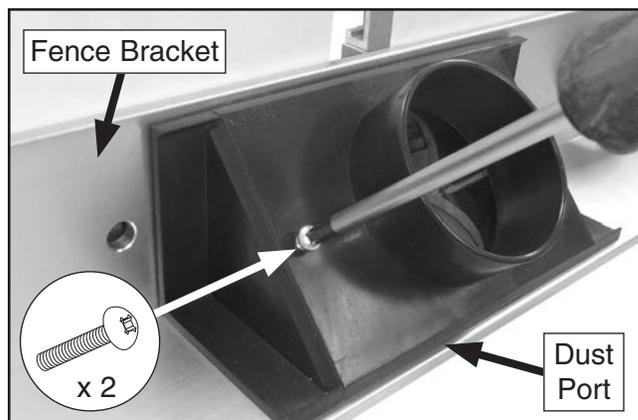
**Figure 6.** T-bolts for attaching router guard installed.

4. Slide router bit guard over T-bolts. Secure with (2) 6mm fender washers and (2) 3-lobe knobs (see **Figure 7**).



**Figure 7.** Router bit guard attached.

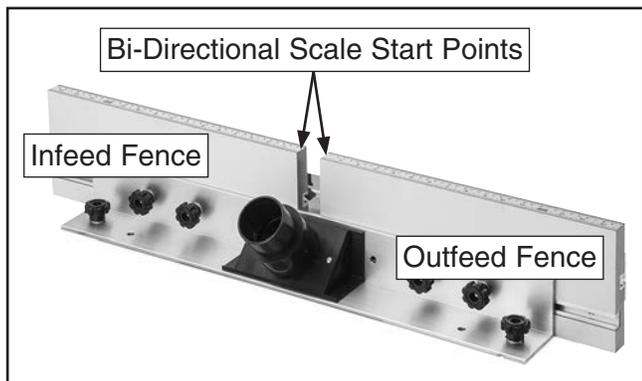
5. Tighten (4) 8-lobe knobs from **Step 1** to secure fence to bracket.
6. Attach dust port to fence bracket using (2) M5-.8 x 55 Phillips head screws, as shown in **Figure 8**.



**Figure 8.** Attaching dust port.

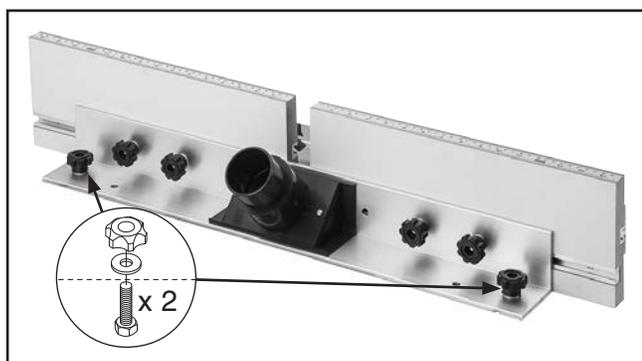


- If necessary, attach bi-directional scale to top of each fence half. Place start points as shown in **Figure 9**, with 15" mark at fence ends.



**Figure 9.** Fence bi-directional scales attached.

- Insert (2) M8-1.25 x 25 hex bolts into slots on bottom of fence bracket, then attach 8mm flat washer and 8-lobe knob onto each bolt, as shown in **Figure 10**. Thread loosely.



**Figure 10.** Completed fence assembly.

## Installing Extension Wing

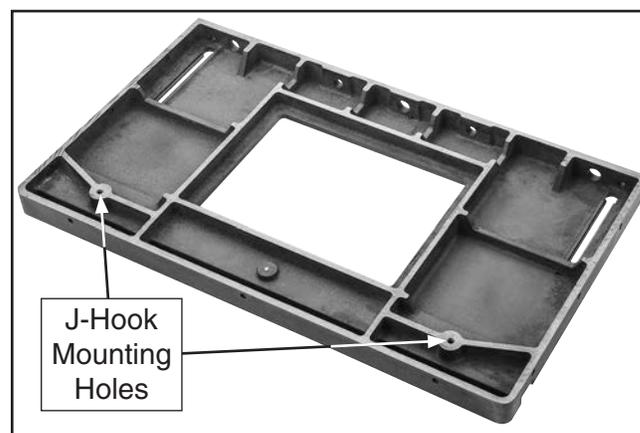
The Model T1244 mounts on most table saws that have 27" deep tables. If your table saw does not have mounting holes for the installation of the router table, you will need to drill and tap these holes in the saw table. Also, you may have to modify the fence rails to allow access for the router table T-slots, and drill the fence rails to align with the extension wing mounting holes.

Read this entire assembly section before beginning the installation procedure below to make sure the T1244 will fit your table saw.

### To assemble and install router table extension wing:

- DISCONNECT MACHINE FROM POWER!
- Thread M6-1 hex nut onto each M6-1 x 54 J-hook, then thread J-hooks into bottom of table (see **Figure 11**). Tighten hex nut against table to secure.

**Note:** Use J-hooks to hang table saw rip fence when not in use.



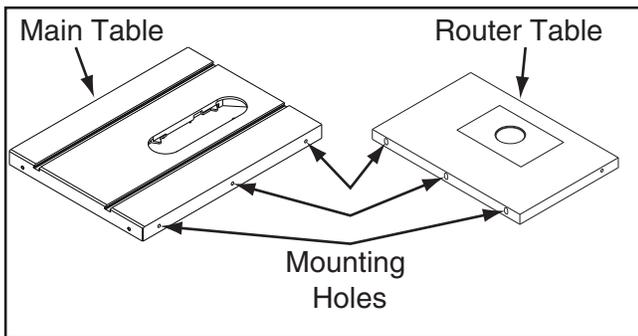
**Figure 11.** J-hook mounting hole locations.



3. With assistant's help, remove right extension wing of saw table and use mounting holes shown in **Figure 12** to attach router table extension wing.

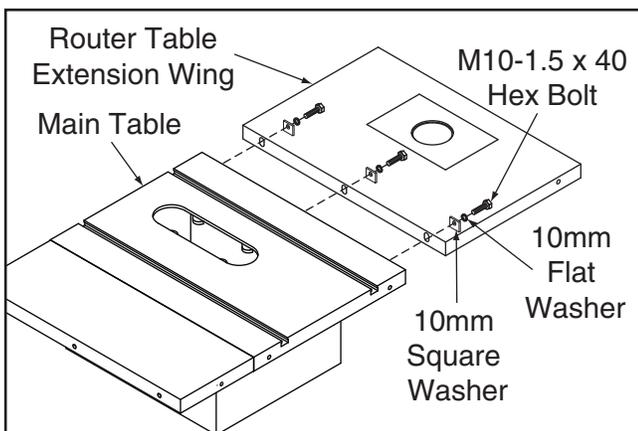
**IMPORTANT:** DO NOT re-use hex bolts used previously to attach right extension wing. They may be the wrong grade or too short. Use the supplied M10-1.5 x 40 hex bolts, or buy new 1½" long Grade 5/Class 8.8 hex bolts if your saw uses a thread size and pitch other than M10-1.5.

If the mounting holes DO NOT align, use the router table extension wing as a template to mark mounting hole locations on the saw table. Drill and tap three M10-1.5 holes to use the supplied M10-1.5 x 40 hex bolts.



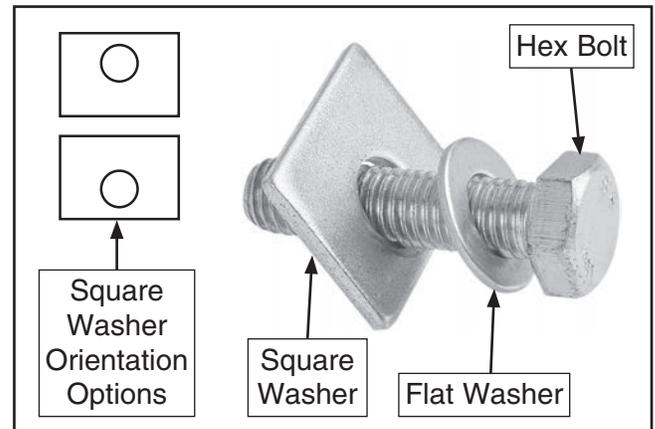
**Figure 12.** Mounting holes in router table extension wing and saw table.

4. While assistant holds router table extension wing from above, attach extension wing to saw table using (3) supplied M10-1.5 x 40 hex bolts, (3) 10mm flat washers, and (3) 10mm square washers (see **Figure 13**), or Grade 5 fasteners obtained in **Step 3**.



**Figure 13.** Mounting router table extension wing to saw table.

**Note:** Adjust square washer orientation under hex bolt (see **Figure 14**) so that washer clears bottom of router table extension wing and sits flush on flange while aligning mounting holes with saw table.

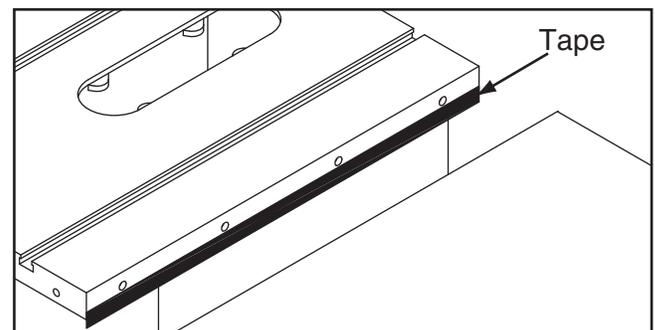


**Figure 14.** Use square washer, flat washer, and hex bolt to attach router table wing.

5. Place straightedge across saw table and router table extension wing to make sure that combined table surface is flat.

— If combined table surface is flat, continue with **Step 6**.

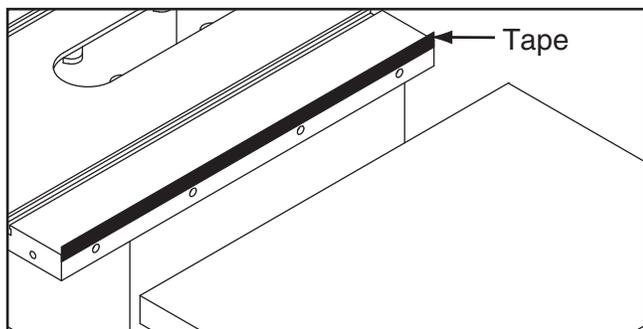
— If outside edge of router table tilts down, remove extension wing and place strips of masking tape along *bottom* edge of saw table to shim router table up and even with the saw table from side to side (see **Figure 15**).



**Figure 15.** Using tape to shim the router table up.



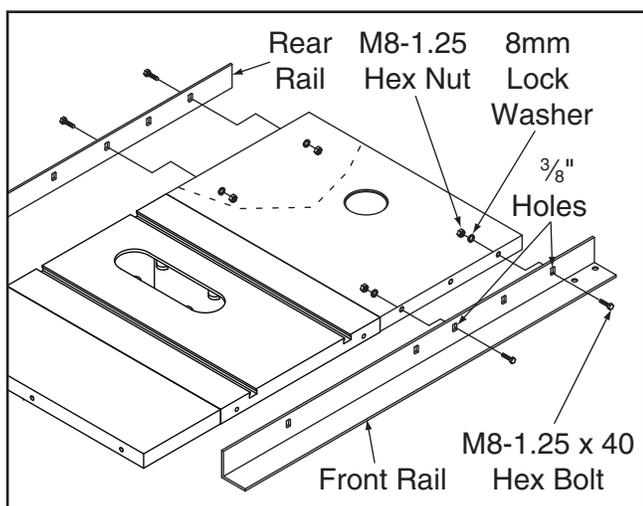
- If the outside edge of the router table tilts up, remove the extension wing and place strips of masking tape along the *top* edge of the saw table to shim the router table down and even with the saw table from side to side (see **Figure 16**).



**Figure 16.** Positioning the tape to shim the router table down.

**Note:** After re-installing router table, remove all excess masking tape with a razor blade.

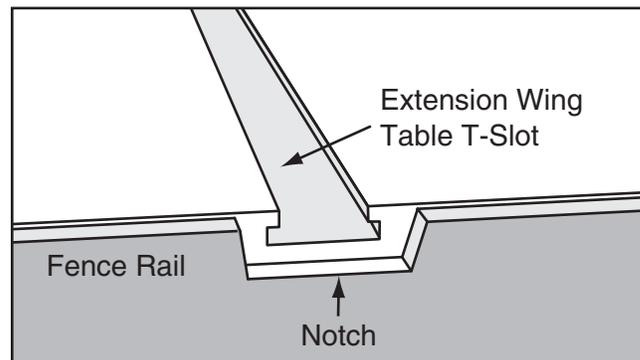
6. Remove fence and front rail tube (if installed) to give yourself clear access to fence rails.
7. Use (4) M8-1.25 x 40 hex bolts, (4) 8mm lock washers, and (4) M8-1.25 hex nuts to secure router table extension wing to front and rear fence rails, as shown in **Figure 17**.



**Figure 17.** Example of mounting router table to rails.

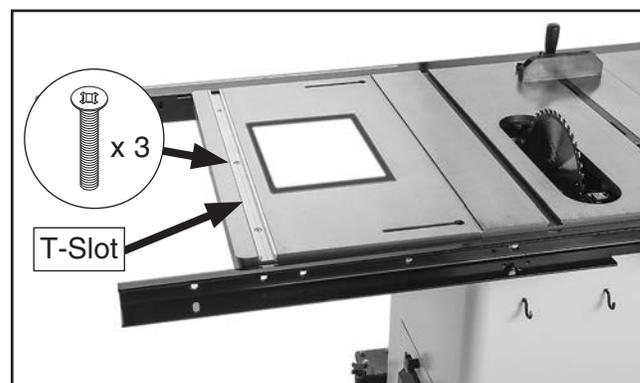
**Note:** If necessary, mark and drill fence rails with  $\frac{3}{8}$ " holes to align with router table extension wing mounting holes. Attach with supplied Class 8.8 fasteners, or buy Grade 5 fasteners at your hardware store.

8. If your saw fence rails cover ends of router table extension wing T-slot, modify each rail with a notch that exposes router table extension wing T-slot, as illustrated in **Figure 18**.



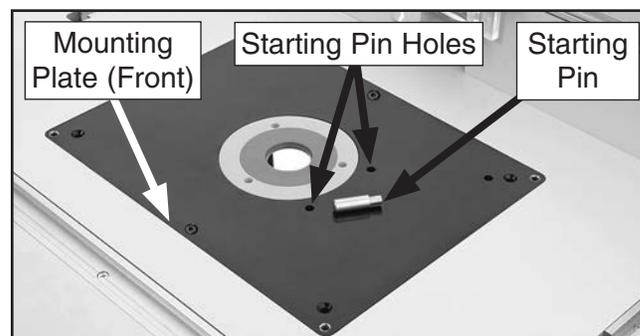
**Figure 18.** Example of a fence rail modification for table T-slot access.

9. If not already installed, attach aluminum T-slot to router table extension wing using (3) M6-1 x 16 flat head screws (see **Figure 19**).



**Figure 19.** T-slot installed and router table wing extension attached to fence rails.

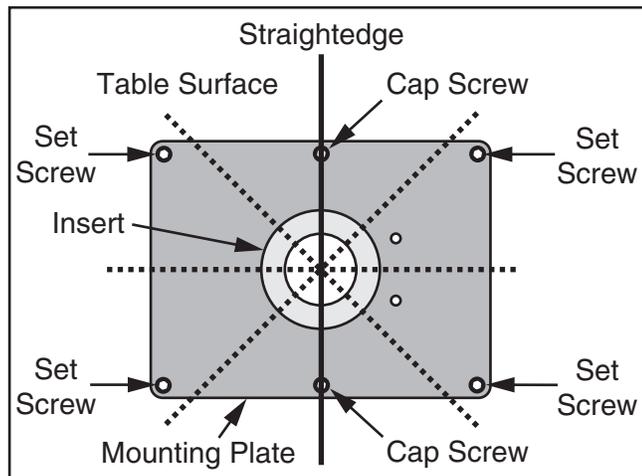
10. Install router mounting plate with pre-installed table insert. Mounting plate should only be installed with starting pin holes on right side, as shown in **Figure 20**.



**Figure 20.** Proper orientation of starting pin holes.

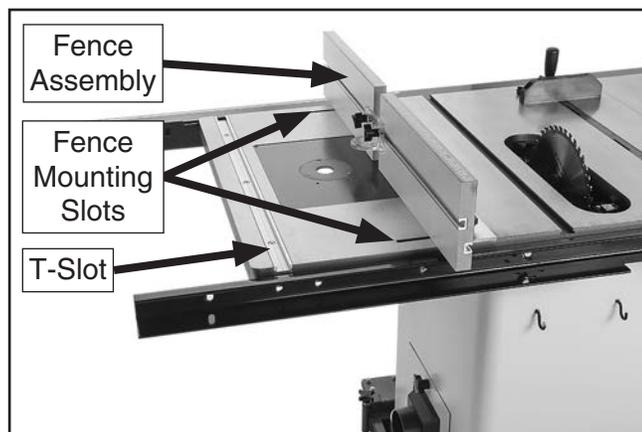


- To ensure that workpiece does not catch on mounting plate or table insert, inspect alignment with straightedge in star pattern shown in **Figure 21**, ensuring both ends of straightedge are over table. Adjust (4) set screws as necessary until top of mounting plate is flush with surface of router table extension wing, then secure position of mounting plate with (2) M5-.8 x 12 cap screws.



**Figure 21.** Straightedge inspection pattern to ensure mounting plate is flush with table.

- To attach fence assembly, place hex bolt heads into slots on router table extension wing, then slide fence assembly toward T-slot (see **Figure 22**). Tighten knobs on fence bracket to secure.



**Figure 22.** Fence assembly installed on router table wing extension.

## Attaching Router to Extension Wing

### **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 universal aluminum router mounting plate included with the T1244 is designed to attach to the bottom of your router in the same manner as the router base. When installed, the weight of the router holds the mounting plate in place.

We recommend using the router base as a template for the hole pattern to be drilled in the mounting plate. The router mounting plate has 15 pre-marked pilot holes to assist in attaching it to the router.

**IMPORTANT:** *When deciding how to orient the router in relation to the router wing table, consider access to all router controls, adjustment knobs, lock levers, and the power switch.*

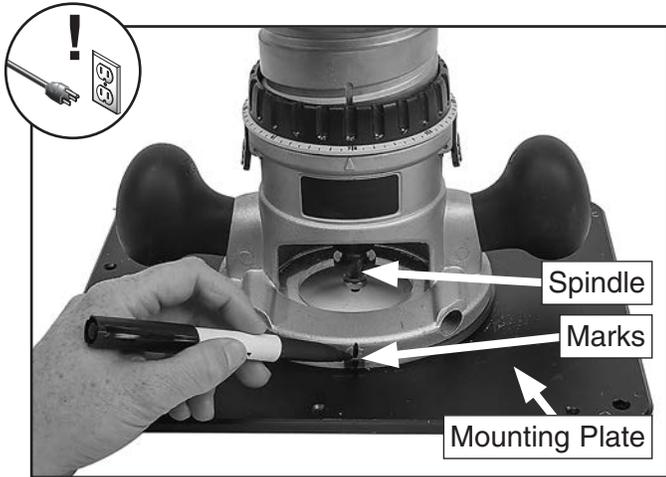
#### **To attach router to router mounting plate:**

- DISCONNECT ROUTER FROM POWER!**
- Mark front of mounting plate with tape or erasable marker.
- Lift mounting plate out of table opening, and lay it bottom-side-up on a protected working surface to prevent scratching top surface of mounting plate.



- Set router on mounting plate (see **Figure 23**) and align spindle with center of insert. Use marker to mark center curve of router base, router base plate, and mounting plate.

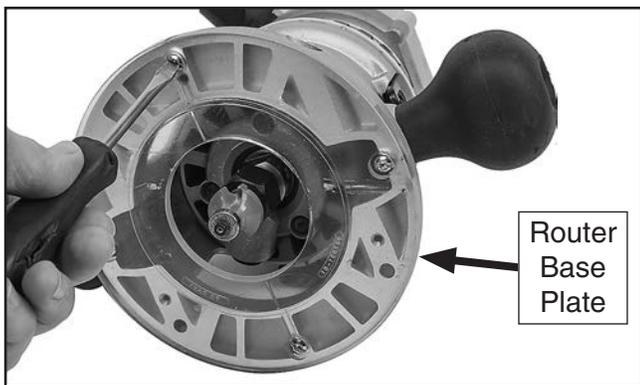
**Note:** Consider access to router controls before finalizing router location. It may be necessary to slightly adjust alignment if holes in router base plate overlap or are too close to starter pin holes.



**Figure 23.** Marking center of router base, router base plate, and mounting plate with spindle.

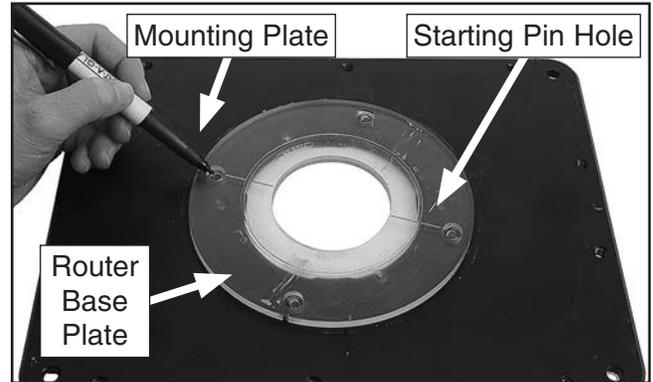
- Remove router base plate (see **Figure 24**).

**Note:** Keep fasteners used to secure router base plate.



**Figure 24.** Example of removing typical base plate from router.

- Center router base plate on mounting plate (see **Figure 25**), keeping marks made in **Step 4** aligned.
- Use router base plate as template to align with pilot holes on bottom-side surface of mounting plate, as shown in **Figure 25**.



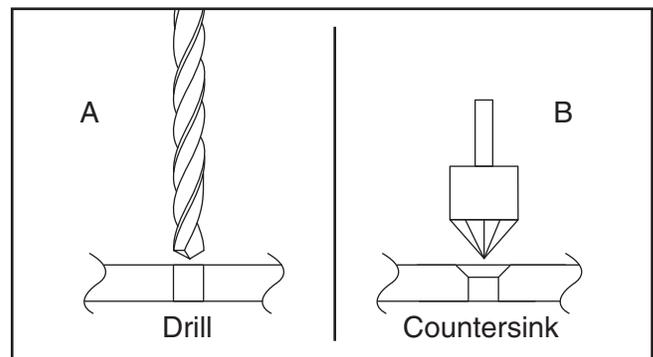
**Figure 25.** Example of marking holes on mounting plate.

**Note:** Use center punch to mark any router base plate mounting holes that do not align with pilot holes on mounting plate.

- Use drill press or hand-held drill with guide to drill holes through mounting plate.

**Note:** Use drill bit slightly larger in diameter than fasteners used to secure base plate to router to ease installation in following steps.

- Drill countersink holes on top surface of mounting plate, using drill holes as guides for countersinks (see **Figure 26** for example). This allows fasteners to sit slightly below top surface of mounting plate and reduces risk of kickback from a workpiece catching on fasteners during routing operations.

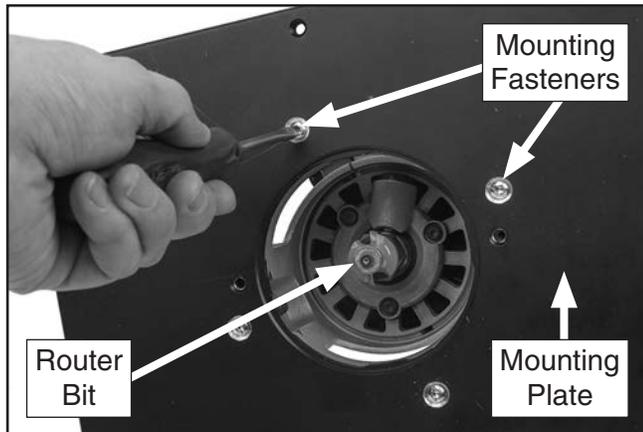


**Figure 26.** Example of drill hole and countersink.



- Align holes in mounting plate with threaded holes in router base, and use fasteners removed in **Step 5** to secure router to mounting plate, as shown in **Figure 27**.

**Note:** If original fasteners are not long enough to properly secure router to mounting plate, use longer fasteners purchased from your local hardware store.



**Figure 27.** Securing mounting plate to router base.

## ⚠ CAUTION

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

- Insert mounting plate and router into router table extension wing opening.
- Make sure mounting plate and table are aligned evenly (see **Step 11, Extension Wing Installation** on **Page 15**).

## 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.

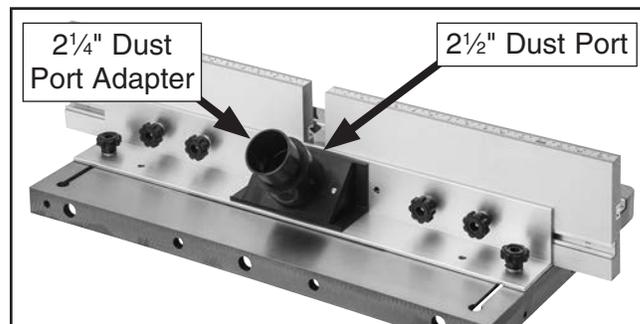
The Model T1244 has one 2½" dust port and an adapter to fit a 2¼" diameter shop vacuum hose.

### Recommended CFM at Dust Port: 100 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 wyes, and (4) amount 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 item:

- Fit 2½" dust hose over dust port (see **Figure 28**) and secure in place with a hose clamp, or connect a shop vacuum hose using the 2¼" hose adapter on dust port.



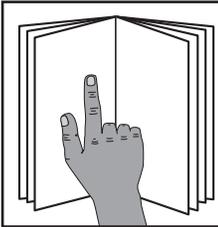
**Figure 28.** Dust port on fence assembly.

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

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



# SECTION 3: OPERATIONS

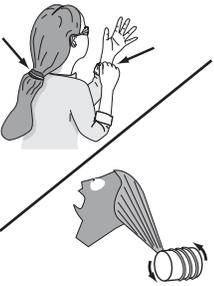
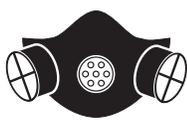


## **!WARNING**

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.

## Operation Overview

The purpose of this overview is to provide the novice machine operator with a basic understanding of how the machine is used during operation, so the machine 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, seek additional training from experienced machine operators, and do additional research outside of this manual by reading "how-to" books, trade magazines, or websites.

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

1. Examines workpiece to make sure it is suitable for routing.
2. Adjusts infeed and outfeed fences close to the bit for maximum workpiece support, then secures the fence boards in place.
3. Adjusts the bit height for the desired cutting profile.
4. Adjusts fence position to establish the depth of cut.
5. Wears safety glasses, a respirator, and hearing protection. Locates push sticks or blocks if needed.
6. If using a reversible router, verifies that direction of router bit rotation is correct for the operation, and then starts the router.



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

**IMPORTANT:** *The operator is very careful to keep the workpiece firmly against the table and fence and hands away from the rotating router bit during the entire cut.*

8. Stops the router.

## Workpiece Inspection

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

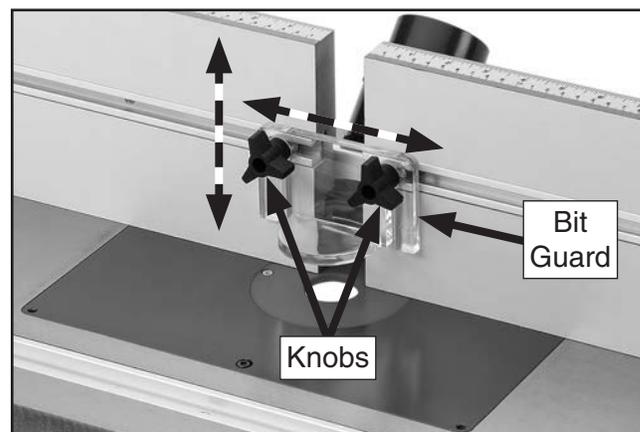
- **Material Type:** This machine is intended for cutting natural and man-made wood products, laminate-covered wood products, and some plastics. Cutting drywall or cementitious backer board creates extremely fine dust and may reduce the life of the bearings. This machine is NOT designed to cut metal, glass, stone, tile, etc.; cutting these materials with a table saw may lead to injury.
- **Foreign Objects:** Nails, staples, dirt, rocks and other foreign objects are often embedded in wood. While cutting, these objects can become dislodged and hit the operator, cause kickback, or break the blade, 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 can become dislodged during the cutting operation. Large knots can cause kickback and machine damage. Choose workpieces that do not have large/loose knots or plan ahead to avoid cutting through them.

- **Wet or "Green" Stock:** Cutting wood with a moisture content over 20% causes unnecessary wear on the blades, 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 cut. DO NOT cut workpieces with these characteristics!
- **Minor Warping:** Workpieces with slight cupping can be safely supported if the cupped side is facing the table or the fence. On the contrary, a workpiece supported on the bowed side will rock during a cut and could cause kickback or severe injury.

## Adjusting Bit Guard

A transparent bit guard is included with the Model T1244 to minimize operator exposure to the spinning router bit. The guard secures to the fence with (2) 3-lobe knobs, (2) fender washers, and (2) T-bolts.

The bit guard adjusts up and down and side to side to accommodate various router bits (see **Figure 29**). For your own safety, the bit guard must be positioned vertically not more than  $\frac{1}{8}$ " above the workpiece, and centered horizontally on the gap between the infeed and outfeed fences.



**Figure 29.** Bit guard adjustments.

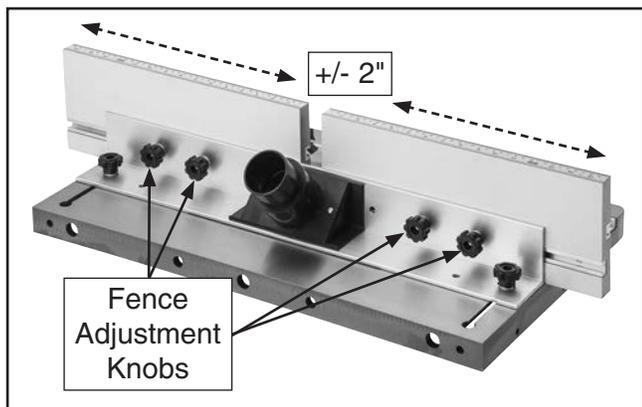


# Adjusting Fences

The fence assembly on the Model T1244 has an infeed fence and an outfeed fence. Each fence can be moved toward or away from bit up to 2". The entire fence assembly can be moved forward and backward up to 4 1/4".

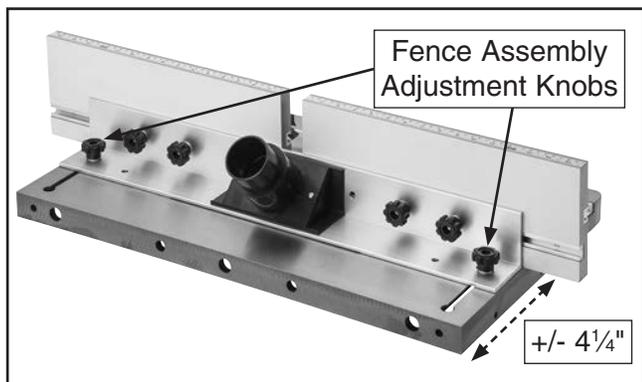
**IMPORTANT:** Fences should be adjusted as close to the bit as possible without touching in order to minimize risk of injury and produce best results.

To adjust the fences, loosen the four fence adjustment knobs (see **Figure 30**) and the two knobs on the bit guard (see **Figure 29** on **Page 19**). Tighten all knobs when complete.



**Figure 30.** Adjusting fence boards in/out.

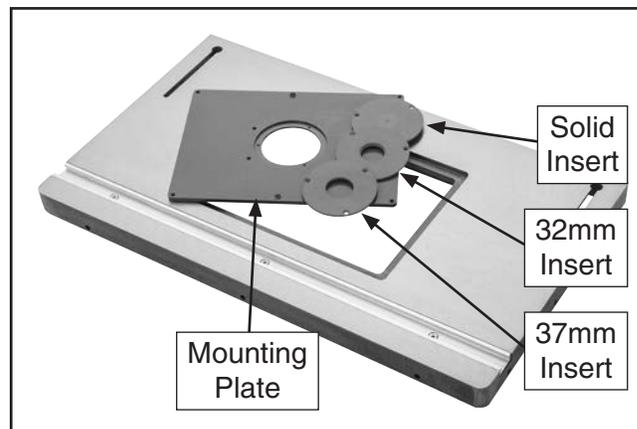
To adjust fence assembly forward/backward, loosen the two fence assembly adjustment knobs shown in **Figure 31** and slide the fence assembly into position. Tighten the knobs when complete. If necessary, refer to **Squaring Fence & Table** on **Page 21**.



**Figure 31.** Adjusting fence assembly forward/backward.

# Table Inserts

Three table inserts (solid, 32 ID, and 37 ID) are included with the Model T1244 (see **Figure 32**).

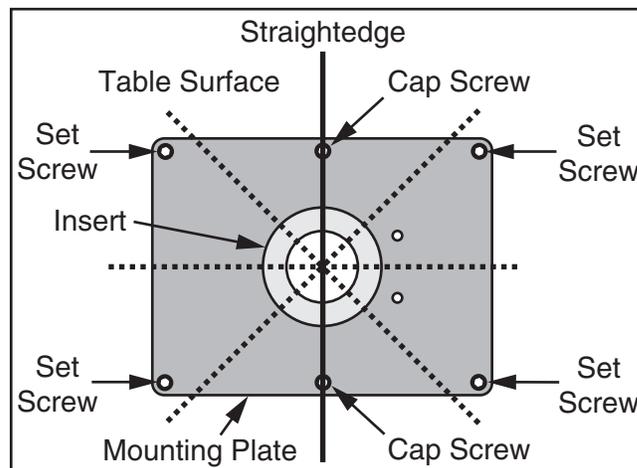


**Figure 32.** Table inserts.

Always install the smallest table insert into the mounting plate that still allows the router bit to freely rotate. This provides maximum support and stability to the workpiece during operation, which increases safety.

**IMPORTANT:** For table saw operations that require removal of the router fence assembly, always install the solid table insert to create a smooth table surface.

After changing an insert, use a straightedge to ensure it is flush with the extension wing, adjust the set screws as necessary, and secure the position with the cap screws (see **Figure 33**).



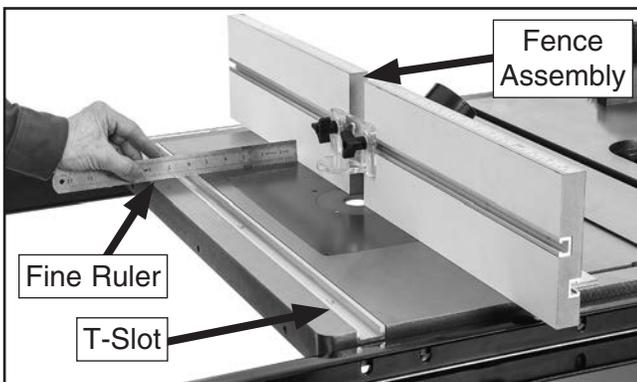
**Figure 33.** Measuring router mounting plate alignment with extension wing table.



# Squaring Fence & Table

When using a miter gauge, the fence assembly must be parallel to the table T-slot for safe and accurate cutting results. Use a fine ruler to make the distance equal between the fence assembly and the T-slot along the full length of the table (see **Figure 34**).

**⚠ CAUTION**  
Kickback injury may occur if fence is not parallel with T-slot. When using a miter gauge with this router table, **ALWAYS** make sure fence assembly is parallel with table T-slot **BEFORE** beginning routing operations.



**Figure 34.** Adjusting fence parallel with table T-slot.

# 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.

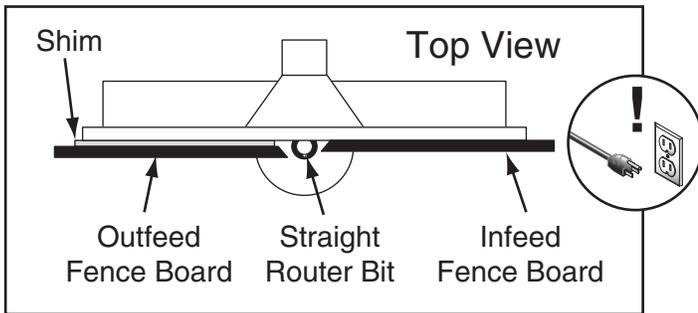
**⚠ WARNING**  
Always feed workpiece against router bit rotation direction, as illustrated below. Otherwise, workpiece could be aggressively pulled from your hands, drawing them into spinning cutter.

**To joint edge of a workpiece:**

1. DISCONNECT ROUTER FROM POWER!
2. Secure straight cutting bit into router according to router manufacturer's instructions.
3. Install smallest table insert into mounting plate that still allows router bit to freely rotate.
4. Raise bit to a height slightly more than that of workpiece, then rotate it by hand until cutting flute (cutting edge) is perpendicular to fence boards.

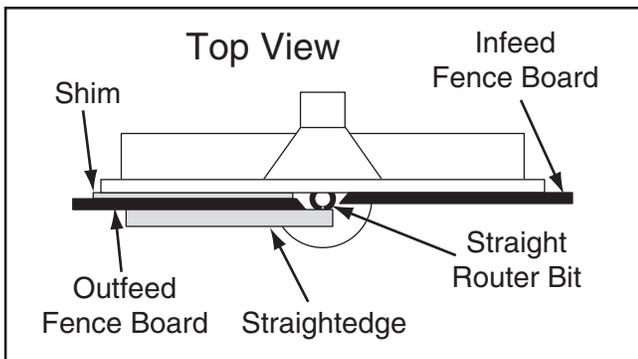


5. Insert and secure shims (not included) between outfeed fence board and fence bracket that equal in thickness the amount of material you want to remove from workpiece face (see **Figure 35**).



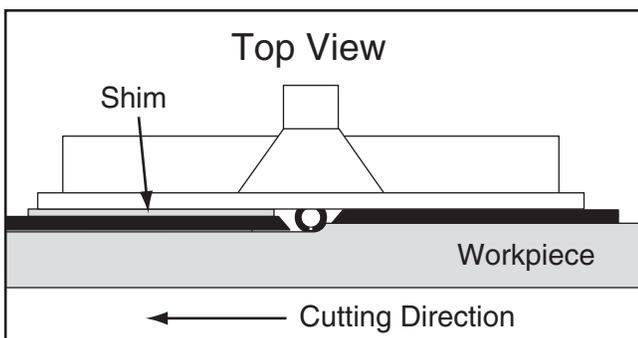
**Figure 35.** Fence setup for edge jointing (guard removed for clarity).

6. Place straightedge against outfeed fence board, then adjust fence assembly so straightedge is just against bit flute, as illustrated in **Figure 36**.



**Figure 36.** Measuring fence setup for edge jointing (guard removed for clarity).

7. Lock fence assembly and bit guard in place, tighten all knobs, connect router to power, then perform cut (see **Figure 37**).



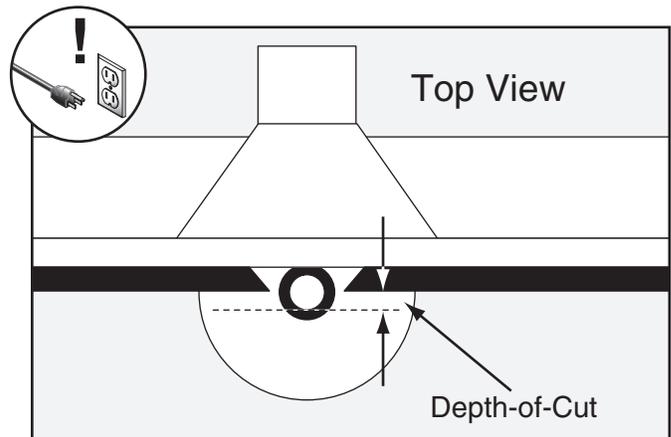
**Figure 37.** Edge jointing (guard removed for clarity).

## Groove Cutting

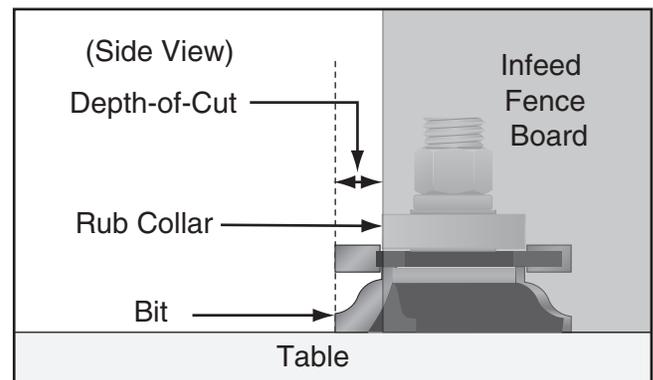
Groove cutting produces a groove or bead in the face of the board.

**To cut a groove into face of workpiece:**

1. DISCONNECT ROUTER FROM POWER!
2. Secure bit into router according to router manufacturer's instructions.
3. Install smallest table insert into router mounting plate that still allows bit to freely rotate.
4. Make sure both fence boards are even with one another and secured to fence assembly.
5. Raise bit to desired height, then adjust fence assembly so that fence boards are behind bit the same distance as desired depth-of-cut (see the illustrations in **Figures 38–39**).



**Figure 38.** Groove cutting setup, top view (bit guard removed for clarity).



**Figure 39.** Groove cutting setup—side view.



- Lock fence assembly and bit guard in place, tighten all knobs, connect router to power, then perform cut.

## Routing Small Stock

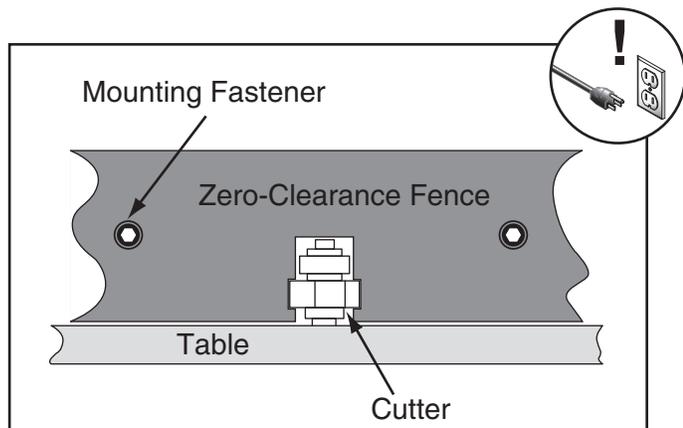
Feeding small stock past the router bit is always dangerous. If you must route small stock, use a zero-clearance fence. This will provide greater protection for the operator, better workpiece support, and reduced tear out on narrow or fragile stock.

Items Needed	Qty
Wood Board 24" x 6" x 1" .....	1
Drill Bit $\frac{3}{8}$ " .....	1
Countersink Bit .....	1
Flat Head Screws M8-1.25 x 25 .....	6
Hex Nuts M8-1.25 .....	6

### To make a zero-clearance fence:

- DISCONNECT ROUTER FROM POWER!
- Remove infeed and outfeed fences from fence assembly.
- Select a piece of straight and smooth stock that is the same height and thickness as the fence boards and approximately 24" long.
- Cut outline of spindle and cutter from the center of stock selected in **Step 3**, as illustrated in **Figure 40**.

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



**Figure 40.** Example of a zero-clearance fence.



- Use fence bracket as template to mark, drill, and countersink mounting holes in zero-clearance fence.
- Secure zero-clearance fence to fence assembly, check for proper clearance, connect router to power, then run a test piece by the cutter to verify results.

## CAUTION

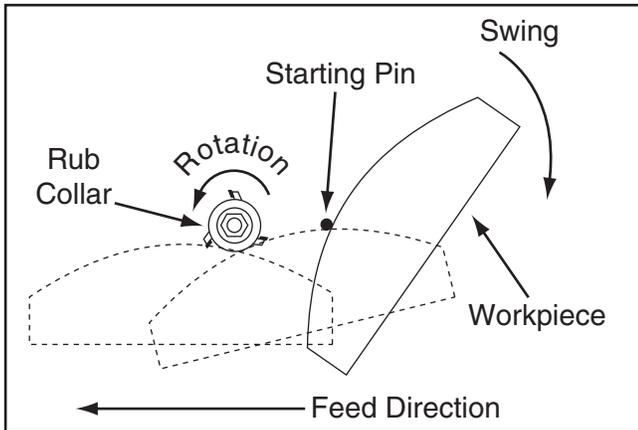
**ALWAYS** use hold-downs or featherboards and push sticks when shaping small or narrow stock. These devices keep your hands away from spinning cutter and sufficiently support stock to allow a safe and effective cut, reducing risk of personal injury.

## Free-Hand Routing

Irregular or free-hand routing, as illustrated in **Figure 41** (next page), takes a high degree of skill and dexterity and is done without the protection and aid from the fence and router bit 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.



To reduce the likelihood of kickback when free-hand routing, use a starting pin or block (see **Figures 41–42**). 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 41.** Illustration of free-hand routing using a starting pin.

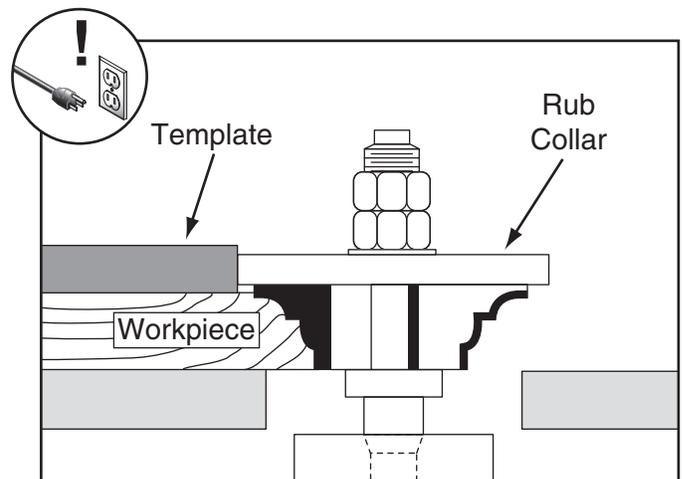


**Figure 42.** Example of using a jig with a starting block.

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

**To free-hand route:**

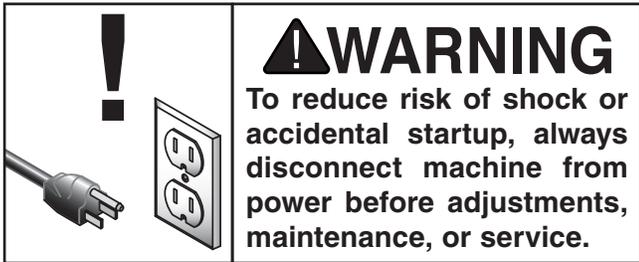
1. DISCONNECT ROUTER FROM POWER!
  2. Fabricate a jig to use with workpiece that will match desired finished shape, then attach it to workpiece (see **Figure 42** for an example).
- Note:** Make sure any fasteners used will not make contact with the router bit during the cutting operation. Glue can be used as an alternative.
3. Remove fence assembly from table.
  4. If possible, fabricate and mount a custom guard over the bit that safely protects your hands from spinning cutter.
  5. Insert starting pin in best-suited hole on mounting plate, or clamp a starting block to the table (see **Figure 42** for an example).
  6. Install a router bit with a rub collar as directed by router manufacturer's instructions, then raise it to desired height (see **Figure 43**).



**Figure 43.** Using a template and rub collar for free-hand routing.



# SECTION 4: MAINTENANCE



## Schedule

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

### Ongoing

To maintain a low risk of injury and proper accessory operation, if you ever observe any of the items below, stop using the accessory immediately and fix the problem before continuing operations:

- Loose mounting bolts.
- Damaged router bit.
- Worn or damaged wires.
- Any other unsafe condition that could hamper the safe operation of the router table wing extension.

### Weekly Maintenance

- Clean/vacuum dust buildup from router and T-slots on table wing extension and infeed and outfeed boards.

## 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® (see **Figure 44**).

### Recommended Metal Protectants

**G5562—SLIPIT® 1 Qt. Gel**

**G5563—SLIPIT® 11 Oz. Spray**



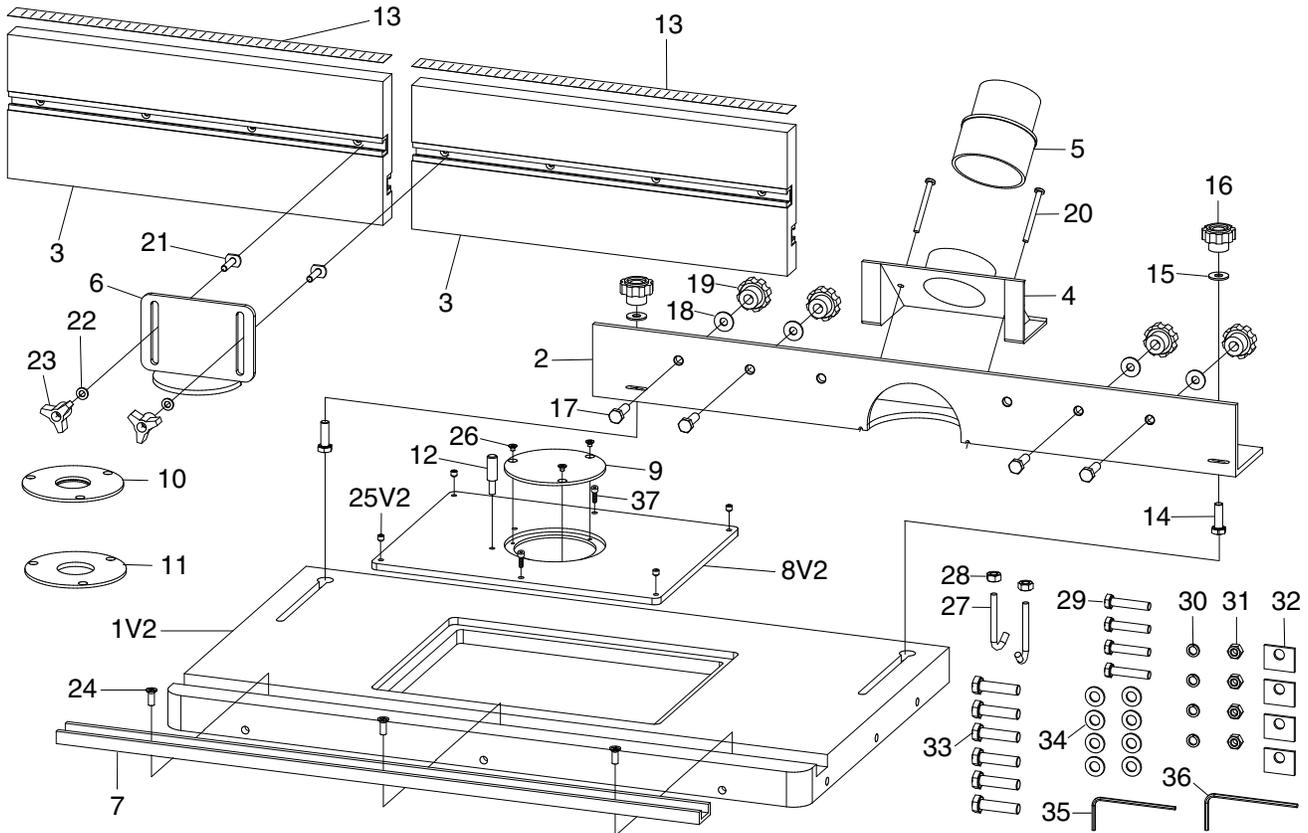
**Figure 44.** Recommended products for protecting unpainted cast iron/steel parts on machinery.



# SECTION 5: PARTS

**Please Note:** We do our best to stock replacement parts whenever possible, but we cannot guarantee that all parts shown here are available for purchase. Call (800) 523-4777 or visit our online parts store at [www.grizzly.com](http://www.grizzly.com) to check for availability.

## Main



REF	PART #	DESCRIPTION
1V2	PT1244001V2	WING TABLE EXTENSION V2.08.23
2	PT1244002	FENCE BRACKET
3	PT1244003	FENCE 15-3/4 X 6 X 1"
4	PT1244004	DUST PORT 2-1/2"
5	PT1244005	DUST PORT ADAPTER 2-1/2" - 2-1/4"
6	PT1244006	ROUTER BIT GUARD
7	PT1244007	MITER T-TRACK
8V2	PT1244008V2	ROUTER MOUNTING PLATE V2.08.23
9	PT1244009	PLATE INSERT, SOLID 100MM
10	PT1244010	PLATE INSERT, 32ID X 100MM
11	PT1244011	PLATE INSERT, 37ID X 100MM
12	PT1244012	STARTING PIN M6-1
13	PT1244013	FENCE SCALE 0 - 15-11/16"
14	PT1244014	HEX BOLT M8-1.25 X 25
15	PT1244015	FLAT WASHER 8MM
16	PT1244016	KNOB M8-1.25, 8-LOBE, 34D X 23L
17	PT1244017	HEX BOLT M8-1.25 X 25
18	PT1244018	FLAT WASHER 8MM
19	PT1244019	KNOB M8-1.25, 8-LOBE, 34D X 23L

REF	PART #	DESCRIPTION
20	PT1244020	PHLP HD SCR M5-.8 X 55
21	PT1244021	T-BOLT M6-1 X 25
22	PT1244022	FENDER WASHER 6MM
23	PT1244023	KNOB M6-1, 3-LOBE, 29D X 24L
24	PT1244024	FLAT HD SCR M6-1 X 16
25V2	PT1244025V2	SET SCREW M6-1 X 10 V2.08.23
26	PT1244026	FLAT HD SCR M4-.7 X 5
27	PT1244027	J-HOOK M6-1 X 54
28	PT1244028	HEX NUT M6-1
29	PT1244029	HEX BOLT M8-1.25 X 40
30	PT1244030	LOCK WASHER 8MM
31	PT1244031	HEX NUT M8-1.25
32	PT1244032	SQUARE WASHER 32 X 25 X 2.6MM
33	PT1244033	HEX BOLT M10-1.5 X 40
34	PT1244034	FLAT WASHER 10MM
35	PT1244035	HEX WRENCH 3MM
36	PT1244036	HEX WRENCH 4MM
37	PT1244037	CAP SCREW M5-.8 X 12







# 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.

To take advantage of this warranty, you must register it at <https://www.grizzly.com/forms/warranty>, or you can scan the QR code below to be automatically directed to our warranty registration page. Enter all applicable information for the product.



# *grizzly.com*<sup>®</sup>

**TOOL WEBSITE**

Buy Direct and Save with Grizzly<sup>®</sup> – Trusted, Proven and a Great Value!  
~Since 1983~

*Visit Our Website Today For  
Current Specials!*

**ORDER  
24 HOURS A DAY!  
1-800-523-4777**

