

Grizzly *Industrial, Inc.*®

MODEL T1188 EDGE BANDING TRIM ROUTER OWNER'S MANUAL

(For models manufactured since 06/17)



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#JH18877 PRINTED IN TAIWAN

V1.09.17

 **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.


SECTION 1: SAFETY


WARNING

For Your Own Safety Read Instruction Manual Before Operating This Equipment

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

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

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

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

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

WARNING

Safety Instructions for Power Tools

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 power tool. When tool is not being used, disconnect power, and store in out-of-reach location to prevent unauthorized use—especially around children. Make workshop kid proof!

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

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

DISCONNECT POWER FIRST. Always disconnect tool 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

ELECTRICAL SAFETY. Tool plug must match outlet. Double-insulated tools have a polarized plug (one blade is wider than the other), which must be plugged into a polarized outlet. Never modify plug. Do not use adapter for grounded tools. Use a ground fault circuit interrupter if operation is unavoidable in damp locations. Avoid touching grounded surfaces when operating tool.

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

HAZARDOUS DUST. Dust created while using tools 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, and connect tool to an appropriate dust collection device 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. Never leave adjustment tools, chuck keys, wrenches, etc. in or on tool—especially near moving parts. Verify removal before starting!

INTENDED USAGE. Only use tool for its intended purpose. Never modify or alter tool for a purpose not intended by the manufacturer or serious injury or death may result!

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

SAFE HANDLING. Firmly grip tool. To avoid accidental firing, do not keep finger on switch or trigger while carrying.

FORCING TOOLS. Use right tool for job, and do not force it. It will do job safer and better at rate for which it was designed.

SECURING WORKPIECE. When required, use clamps or vises to secure workpiece. This protects hands and frees both of them to operate tool.

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

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

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

MAINTAIN WITH CARE. Keep cutting tool edges sharp and clean. Follow all maintenance instructions and lubrication schedules to keep tool in good working condition. A tool that is improperly maintained could malfunction, leading to serious personal injury or death. Only have tool serviced by qualified service-personnel using matching replacement parts.

CHECK DAMAGED PARTS. Regularly inspect tool for any condition that may affect safe operation. Immediately repair or replace damaged or mis-adjusted parts before operating tool.

MAINTAIN POWER CORDS. When disconnecting cord-connected tools from power, grab and pull the plug—NOT the cord. Carrying or pulling the cord may damage 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, sharp edges, moving parts, and wet/damp locations. Damaged cords increase risk of electrocution.

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

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.

WARNING

Additional Safety Instructions for Trim Routers

READ ENTIRE MANUAL. This manual contains proper operating instructions for this tool.

SAFETY EQUIPMENT. Wear safety glasses, respirator, and hearing protection when operating trim router.

POWER SOURCE. Unplug the trim router and make sure the switch is **OFF** before inserting or removing bit, making adjustments, or performing maintenance or service. **DO NOT** make adjustments while the trim router is running.

ROUTER BITS. Inspect router bits before use. **DO NOT** use router bits that have been dropped, cracked, or damaged. The router bit may shatter, causing serious injury.

INSTALLING BIT. Insert the bit all the way into the collet and tighten firmly. If the bit is not inserted far enough, the bit may slip or come out, causing injury. **DO NOT** use bits with a diameter larger than 1/8".

COLLET WRENCHES. Make sure the collet wrenches are removed from the trim router before turning it **ON**.

WORKPIECE. Check the workpiece for nails or other foreign objects which may cause the trim router to kickback or damage the bit, possibly causing injury to the operator.

HOLDING THE WORKPIECE. Secure the workpiece with clamps or attach it to an immovable object. **DO NOT** hold the workpiece in your hand or across your legs.

HOLDING THE ROUTER. Hold the trim router with both hands to control torque twist and kickback. Keep hands away from the spinning bit. Make sure the bit has come to a complete stop before setting the trim router down.

ROUTING. Always route with the base flat upon the workpiece. **DO NOT** start the trim router with the bit in contact with the workpiece.

FEED DIRECTION. Always feed the trim router against the cutter rotation. **DO NOT** start routing at a corner. Starting at a corner may cause the tool to grab, damaging the workpiece, and possibly causing personal injury.

REMOVING THE BIT. The bit is sharp and will be hot after use. Use gloves when removing.

WORK AREA. **DO NOT** use the trim router in an area that may contain hidden live wires. Disconnect all power leading to the work area.

TOOL SERVICE. If the trim router is damaged, or not working correctly, repair it before use.

CAUTION

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

Electrical

Polarized Plug

This trim router is double-insulated and therefore does not have a grounding wire or plug. The two-pronged, NEMA 1-15 plug has a polarized end, meaning that one prong (the neutral connector) is wider than the other (the hot connector). Polarized plugs must only be used with polarized receptacles. Do not attempt to plug this machine into a non-polarized receptacle. If a polarized receptacle is not available, a qualified electrical technician will have to install one before the machine can be plugged in.

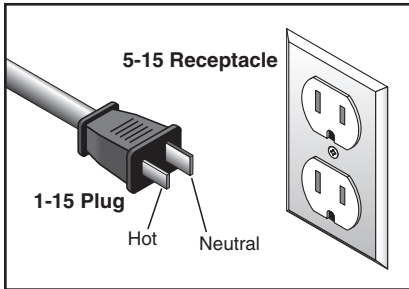



Figure 1. Typical 1-15 plug and receptacle.

! WARNING	
	<p>Electrocution or fire could result if this tool is not grounded correctly or if your electrical configuration does not comply with local and state codes. Ensure compliance by checking with a qualified electrician!</p>

Extension Cords

We do not recommend the use of extension cords, if you find it absolutely necessary:

- Use at least a 16 gauge cord that does not exceed 100 feet in length!
- The extension cord must also contain a ground wire and plug pin.
- DO NOT use an extension cord that has cuts, exposed wires, bent/missing prongs, or other damage.

SECTION 2: 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.

Specifications

Weight	4.4 lbs.
Horsepower	450W ($\frac{5}{8}$ HP)
Voltage	120V
Phase	Single-Phase
Amps2A
No-Load Speed	30,000 RPM
Collet Size	$\frac{1}{4}$ "
Min. Inner Radius	1"
Max. Bit Diameter.....	$1\frac{1}{8}$ "

Contact Info

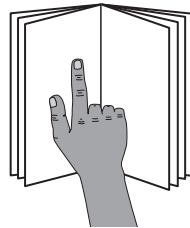
If you have any comments regarding this manual, please write to us at the following address:

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

Most importantly, we stand behind our tools. If you have any service questions or parts requests, please call or write us at the location listed below.

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

WARNING



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

Identification

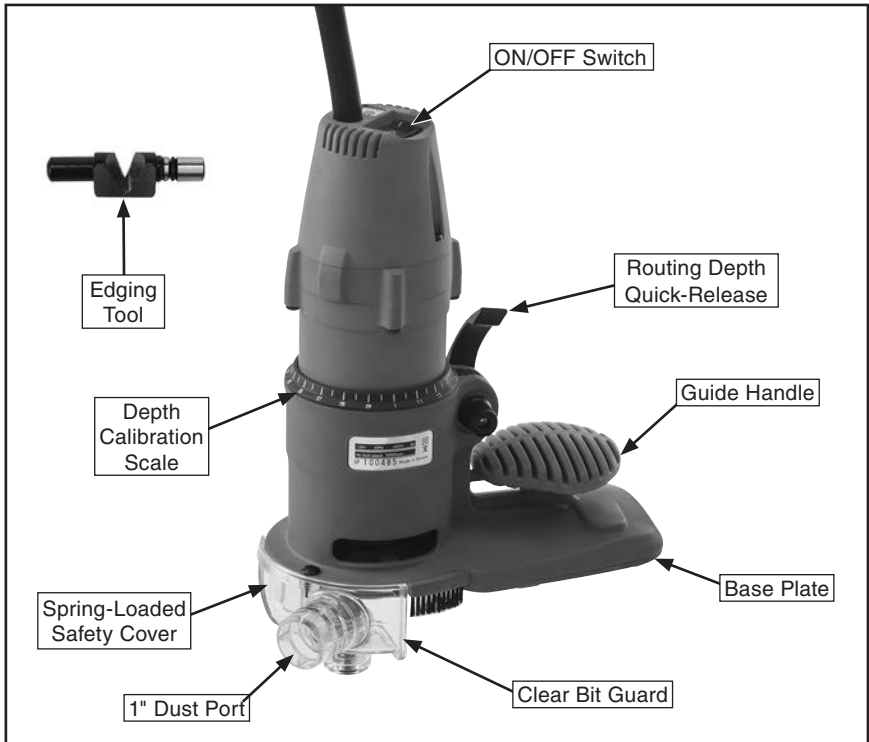


Figure 2. Router component identification.



SECTION 3: SETUP

Inventory

Model T1188 Inventory (Figure 3)

- A. Trim Router (Not Shown) 1
- B. Collet Wrench 22mm 1
- C. Collet Wrench 13mm 1
- D. 1/4" Roundover Bit..... 1
- E. Edging Tool..... 1

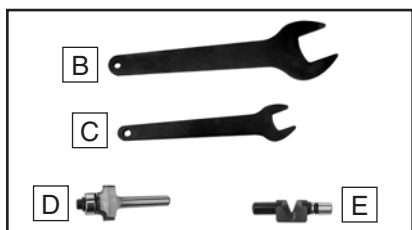


Figure 3. Model T1188 inventory.

Test Run

Once assembly is complete, test run trim router to ensure it is properly connected to power and safety components are functioning.

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

⚠️ WARNING

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

To test run trim router:

1. Clear all setup tools away from trim tool.
2. Connect tool to power supply.
3. Turn tool **ON**, verify motor operation, and then turn tool **OFF**.

The motor should run smoothly and without unusual problems or noises.

Dust Collection

This tool is equipped with a 1" outside diameter dust port (see **Figure 4**). Connect a shop vacuum hose to the dust port.

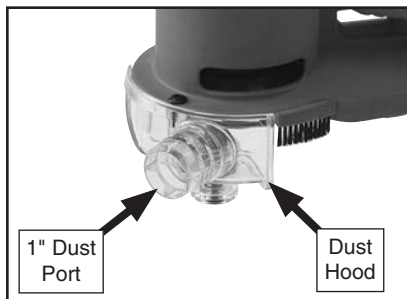


Figure 4. Dust port location.

NOTICE

DO NOT operate tool without properly connecting dust collection, or material may build up inside dust hood, resulting in clogging, malfunction, or other unexpected results.

SECTION 4: OPERATIONS

Routing Operations

Routing an edgebanded workpiece requires that the user install the router bit, set the depth of cut, and determine the correct feed direction.

To perform routing operations:

1. Secure workpiece on a stable surface.
2. Place tool flat on surface of workpiece, making sure bit is not touching workpiece.
3. Firmly grasp tool with both hands and turn switch **ON**.
4. Begin the cut by slowly and smoothly moving tool along workpiece edge in correct feed direction (see **Routing Tips** on **Page 9**).

CAUTION

The tool may "kick" a little when started. If it comes into contact with the workpiece it could jump out of your hand and cause injury.

5. Feed tool along workpiece at a consistent rate of speed. Be aware of the sounds made by the motor and the bit cutting. If the motor begins to bog down or sound like it's struggling, reduce the feed rate.
6. When finished routing, turn tool **OFF**, and allow it to come to a complete stop before setting it down.

Using Edging Tool

A small edging tool is included with your trim router. The edging tool is used to remove excess edgebanding from the workpiece, when necessary. After each use, store the edging tool in the slot located beneath the base plate.

To use edging tool:

1. Remove edging tool from bottom of base plate (see **Figure 5**).



Figure 5. Removing tool from base.

2. Hold edging tool evenly on edge of workpiece (see **Figure 6**).



Figure 6. Using edging tool.

3. Pull tool with even pressure along edge of banded workpiece to remove excess edgebanding.

Note: *Additional touch-up sanding may be required for a smooth surface.*

Routing Tips

- Performing routing operations in multiple passes produces smoother results with less chance of “chip out” and burning of the workpiece. It also reduces the possibility of the router jerking out of your hands from trying to remove too much material in one pass.
- Cutting end grain with the router will cause tearout. Cut the end grain first to allow the tearout to be trimmed off by the side cuts.
- Feed the router in a counterclockwise direction when routing the outside edges of a workpiece. Feed the router clockwise when routing interior holes.
- The correct feed speed depends on the speed of the router, bit size, shape, sharpness, and the characteristics of the workpiece. Feeding the router too fast will cause chatter marks, chip out, and possibly damage the bit and motor. Feeding the router too slowly will cause burn marks and extra build-up on the router bit. Make a test cut on a sample scrap of the workpiece to determine the correct feed speed. A router fed at the correct speed should make large, thin shavings.

⚠ CAUTION

DO NOT start routing at a corner. Starting at a corner may cause the router to grab, damaging the workpiece corner, and possibly causing personal injury.

- Examine the top face of the workpiece and determine the direction of the grain. Feed the router so the bit is cutting with the grain (cutting along the growth rings as shown in **Figure 7**). Cutting against the grain chips the wood rather than cutting it, making a rougher surface with more “chip out.”
- Always pass the router across the workpiece so the bit is rotating opposite the feed direction, as shown in **Figure 7**. If the bit is moving in the same direction you are feeding the router, you are performing a “climb cut.” This is a very dangerous operation because the router could lunge forward out of your hands, causing serious personal injury.

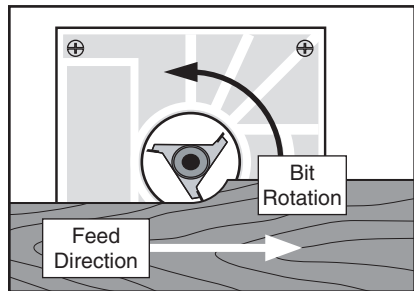


Figure 7. Correct feed direction and grain orientation.

⚠ CAUTION

DO NOT feed the router in the same direction as bit rotation. The router can fly out of your hands, causing serious personal injury.

Removing/Installing Router Bit

This trim router is supplied with a 1/4" collet for use with 1/4" shank router bits. It will only accept router bits up to 1/8" total diameter.

Carefully inspect router bits for cracks, chips, or other damage before installing. DO NOT use router bits that have been dropped, cracked, or damaged. The centrifugal forces from routing at high RPMs may cause a damaged router bit to break apart during use.

To remove or install a router bit:

1. DISCONNECT TOOL FROM POWER!
2. Loosen quick-release latch, then rotate base plate assembly counterclockwise until motor and base plate are separated (see **Figure 8**).

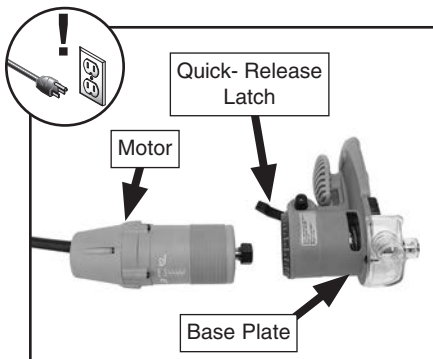


Figure 8. Base plate separated from motor.

⚠ WARNING

Unplug tool and make sure switch is **OFF** before inserting or removing bit, making adjustments, or performing maintenance or service. Never make adjustments while tool is running.

3. Place collet wrenches as shown in **Figure 9**, and loosen collet nut. Remove/install router bit.

⚠ CAUTION

Router bits are sharp and will be hot after use. Wear gloves to prevent injury when removing bit.

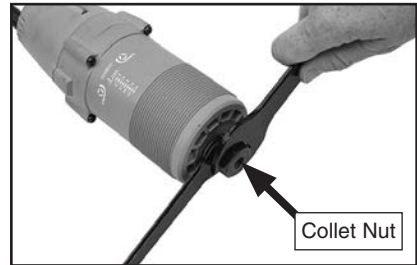


Figure 9. Loosening collet nut.

4. Insert router bit into collet (see **Figure 10**), leaving approximately 1/8" gap between bit and collet nut. Securely tighten collet with wrenches.

Note: DO NOT tighten the collet without a bit. The collet can be damaged.

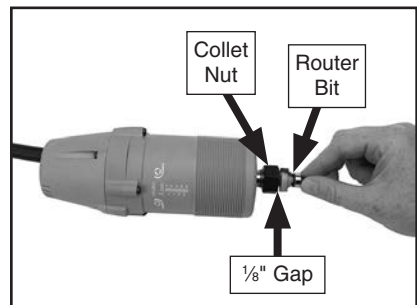


Figure 10. Inserting router bit.

5. Re-install base plate to motor.

Adjusting Bit Depth

The trim router features a depth scale on the motor body to be used with the depth collar to fine-tune bit depth.

Note: The scale on the Model T1188 is not calibrated to any specific point. Only use it for reference when making incremental changes.

⚠ WARNING

Unplug tool and make sure switch is **OFF** before inserting or removing bit, making adjustments, or performing maintenance or service. Never make adjustments while tool is running.

To adjust bit depth:

1. DISCONNECT TOOL FROM POWER!
2. Loosen quick-release latch shown in **Figure 11**, and turn base plate clockwise or counterclockwise to approximate desired depth of cut.

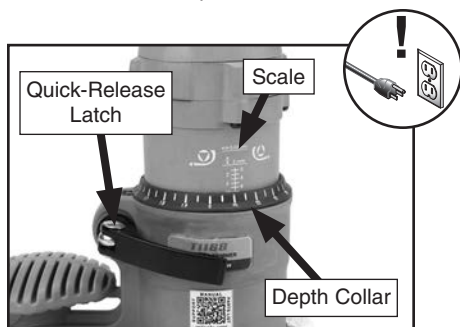


Figure 11. Controls for bit-depth adjustment.

3. Fine-tune router bit depth using a precision measuring device, or place trim router on workpiece and adjust bit depth by eye.

Note: *Depth collar provides increment marks to help gauge adjustment depth (see **Figure 12**). Each full rotation raises/lowers the bit 2mm ($\frac{5}{64}$ ").*



Figure 12. Increment marks on depth collar.

4. Make sure power switch on trim router is turned **OFF**, then connect router to power and make a test cut on a scrap piece of wood to verify bit depth. Repeat **Steps 1–4** until depth is correct.

End-Trimming with Router

Grizzly offers the T1189 Dual-End Trimmer (see **Figure 13**) designed for cutting edgebanding seams on straight or curved surfaces, as well as end-cuts.



Figure 13. T1189 Dual-End Cutter.

The T1188 also converts for end-trimming operation by using the built-in edging tool as a pivot point for vertical trimming.

To end-trim with router:

1. Apply edgebanding to workpiece and route top edges of workpiece.
2. Pivot edging tool out from bottom of base plate (see **Figure 14**), but do not remove edging tool



Figure 14. Pivoting edging tool out of base plate.

3. Place edging tool on top of workpiece, and align base plate with workpiece edge, as shown in **Figure 15**.
4. Turn tool **ON** and slowly move bit into edgebanding.

Move tool up and down along edge of workpiece, keeping base plate aligned and using edging tool as a pivot point, as shown in **Figure 15**.

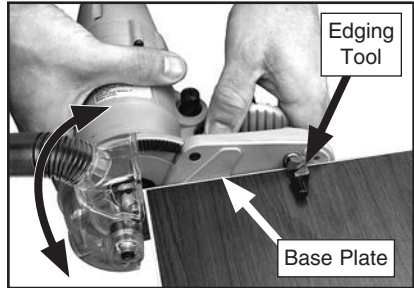


Figure 15. Aligning trim router to workpiece corner.

SECTION 5: ACCESSORIES

⚠️ WARNING

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

NOTICE

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

Basic Eye Protection

T20501—Face Shield 4"

T20502—Face Shield 7"

T20503—Face Shield Window

T20451—"Kirova" Clear Safety Glasses

T20452—"Kirova" Anti-Reflective S. Glasses

H7194—Bifocal Safety Glasses 1.5

H7195—Bifocal Safety Glasses 2.0

H7196—Bifocal Safety Glasses 2.5

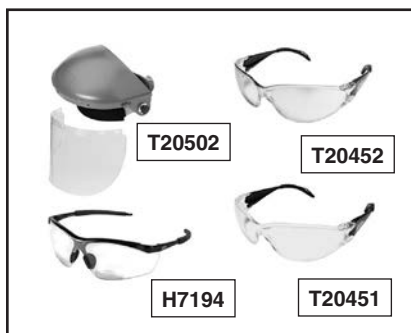


Figure 16. Assortment of basic eye protection.

H4978—Deluxe Earmuffs - 27dB

H4979—Twin Cup Hearing Protector - 29dB

Protect yourself comfortably with a pair of cushioned earmuffs. Especially important if you or employees operate for hours at a time.



Figure 17. Hearing Protection.

T1189—Dual End Cutter

The dual-support design of this cutter means greater stability for straight edge-banding seams. The cutter features line compensation adjustment for precise end seams, and the frame body pivots for sharp corner-cut alignment.



Figure 18. T1189 Dual End Cutter.

SECTION 6: MAINTENANCE

General Maintenance



Trim router maintenance is simple. Keep the tool free from dust, dirt, and grease and always store it in a dry place. Plastic parts can easily be cleaned with a damp cloth, but never use water to clean any electrical parts. Solvents should also be avoided on plastic because of the possibility of damage.

Inspect the trim router for loose parts, damaged cord or switch, and inspect the bits for chips or cracks. Replace the bit if it is worn or damaged. Continuous use of a worn or damaged bit will not only decrease working efficiency, but also overload the motor, so the bit must be frequently checked.

With the exception of the motor brushes, the electrical components of this trim router are not user serviceable.

Replacing Brushes

Motor brushes will eventually wear out over time. If the motor will not run, makes squealing or grinding noises, or performance is dramatically decreased, check motor brushes.

IMPORTANT: Always replace both brushes at the same time.

To replace motor brushes:

1. DISCONNECT TOOL FROM POWER!
2. Remove (2) Phillips head screws securing upper motor cover.
3. Remove Phillips head screw securing each brush assembly to motor housing (see **Figure 19**).



Figure 19. Removing motor brush.

4. Remove brush from mounting bracket (see **Figure 20**) and replace with new brush. Repeat steps for remaining motor brush.

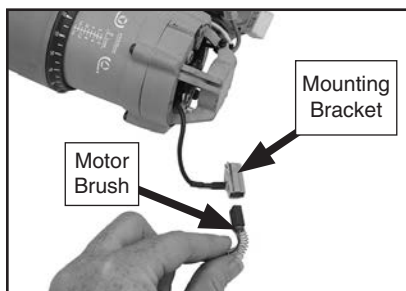
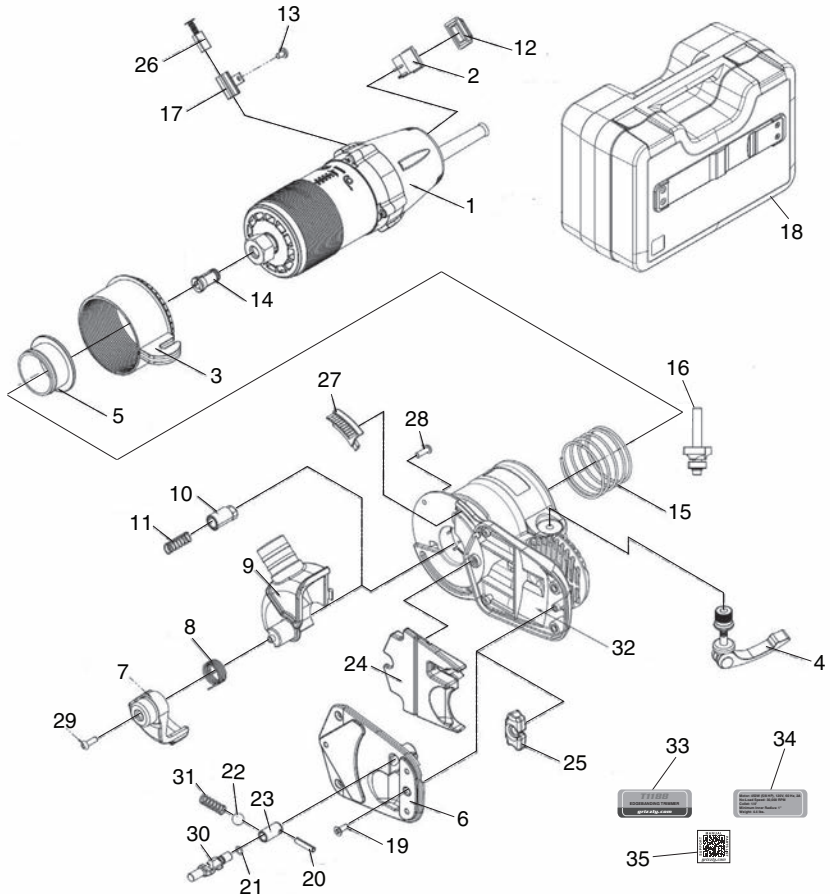


Figure 20. Motor brush location.

5. Re-install brushes and motor cover.

Main Breakdown & Parts List



REF	PART #	DESCRIPTION
1	PT1188001	MOTOR 450W 120V W/CORD 1-15P
2	PT1188002	ON/OFF ROCKER SWITCH
3	PT1188003	SCALE COLLAR
4	PT1188004	QUICK-RELEASE LATCH
5	PT1188005	DUST CHUTE
6	PT1188006	BASE PLATE
7	PT1188007	SAFETY COVER
8	PT1188008	TORSION SPRING 1 X 20
9	PT1188009	DUST HOOD WITH 1" PORT
10	PT1188010	STOP PIN
11	PT1188011	COMPRESSION SPRING 1 X 9 X 25
12	PT1188012	SWITCH COVER
13	PT1188013	TAP SCREW M4 X 6
14	PT1188014	COLLET 1/4"
15	PT1188015	COMPRESSION SPRING
16	PT1188016	ROUTER BIT 1/4" ROUND-OVER
17	PT1188017	CARBON BRUSH HOLDER
18	PT1188018	CARRYING CASE

REF	PART #	DESCRIPTION
19	PT1188019	FLAT HD SCR M4 X 8
20	PT1188020	ROLL PIN 5 X 20
21	PT1188021	O-RING 7.25 X 1.5MM (RUBBER)
22	PT1188022	STEEL BALL 10MM
23	PT1188023	EDGE TOOL SLEEVE
24	PT1188024	INNER LEAD PLATE (LARGE)
25	PT1188025	INNER LEAD PLATE (SMALL)
26	PT1188026	CARBON BRUSH (2-PC SET)
27	PT1188027	EDGE BRUSH
28	PT1188028	TAP SCREW M4 X 10
29	PT1188029	TAP SCREW M4 X 10
30	PT1188030	EDGING TOOL
31	PT1188031	COMPRESSION SPRING
32	PT1188032	MAIN BODY
33	PT1188033	MODEL NUMBER LABEL
34	PT1188034	MACHINE ID LABEL
35	PT1188035	QR CODE

WARRANTY AND RETURNS

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

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

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

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

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

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



WARRANTY CARD

Name _____

Street _____

City _____ State _____ Zip _____

Phone # _____ Email _____ Invoice # _____

Model # _____ Order # _____ Serial # _____

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

1. How did you learn about us?

Advertisement Friend Catalog
 Card Deck Website Other: _____

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

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

3. What is your annual household income?

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

4. What is your age group?

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

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

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

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

0-2 3-5 6-9 10+

7. Do you think your machine represents a good value? Yes No

8. Would you recommend Grizzly Industrial to a friend? Yes No

9. Would you allow us to use your name as a reference for our customers in your area?

Note: *We never use names more than 3 times.* Yes No

10. Comments: _____

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