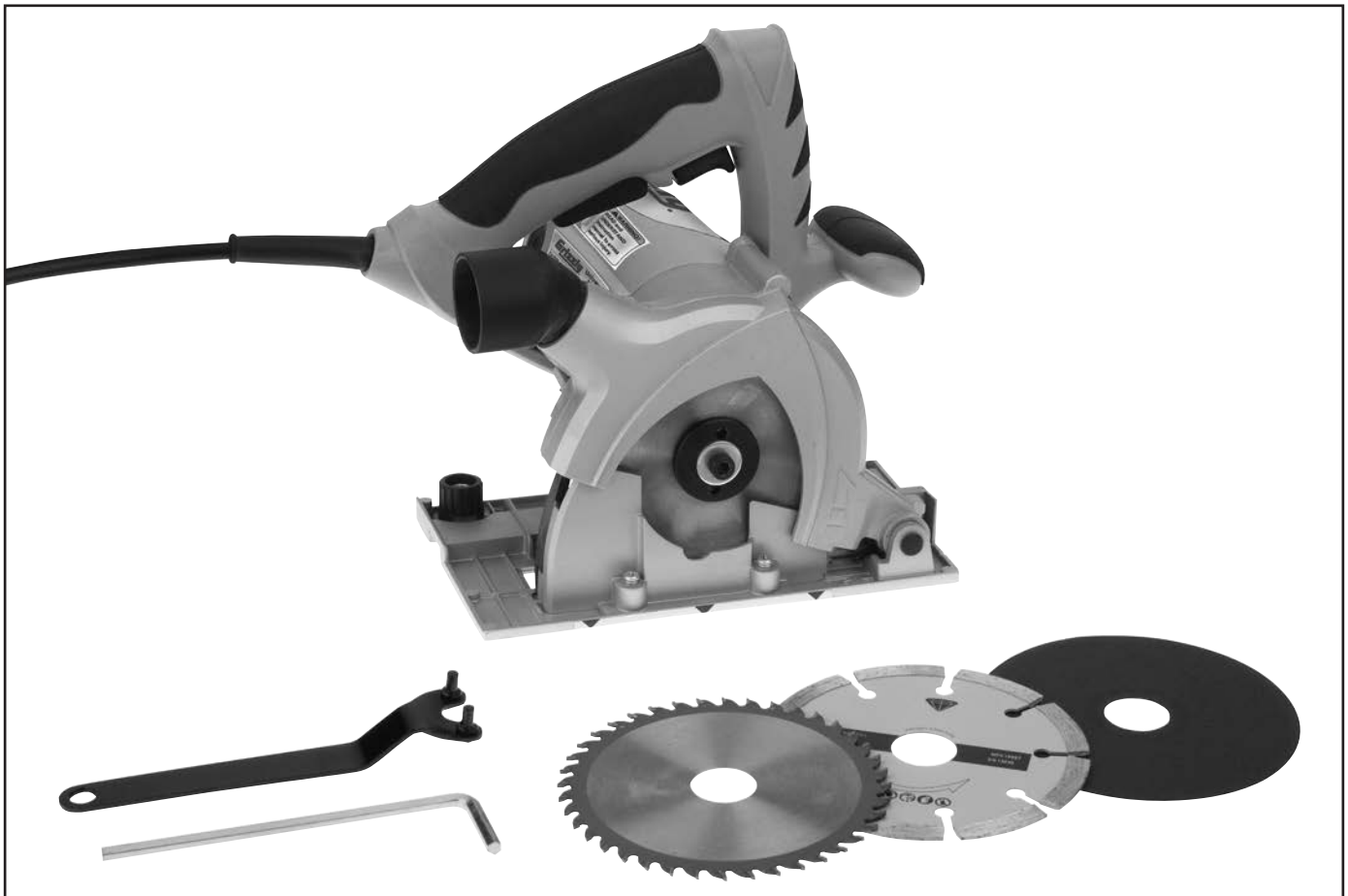


Grizzly *Industrial, Inc.*®

MODEL T10824 MINI TRACK SAW

OWNER'S MANUAL

(For models manufactured since 7/14)



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#WK16708 PRINTED IN CHINA

V1.11.14



WARNING!

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

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

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

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



WARNING!

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

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

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

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INTRODUCTION

Manual Accuracy

We are proud to offer this document with your new Grizzly Model T10824 Track Saw! We've made every effort to be exact with the instructions, specifications, drawings, and photographs of the tool we used when writing this manual. However, sometimes we still make an occasional mistake.

Also, owing to our policy of continuous improvement, **your tool may not exactly match the manual**. If you find this to be the case, and the difference between the manual and tool 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 any questions or need help, use the information below to contact us. Before contacting, please get the serial number and manufacture date of your machine. This will help us help you faster.

Grizzly Technical Support
1203 Lycoming Mall Circle
Muncy, PA 17756
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

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.



Glossary Of Terms

The following is a list of common definitions, terms and phrases used throughout this manual as they relate to this track saw and woodworking in general. Become familiar with these terms for assembling, adjusting or operating this machine. Your safety is **VERY** important to us at Grizzly!

Arbor: Metal shaft extending from the drive mechanism, to which saw blade is mounted. The blade is held in place on the arbor using a special arbor bolt and arbor washer.

Blade Guard: Metal or plastic safety device that encases the saw blade. Its function is to prevent the operator from coming into contact with the saw blade.

Kerf: The resulting cut or gap in the workpiece after the saw blade passes through during a cutting operation.

Kickback: An event in which the tool or workpiece is propelled back towards the operator at a high rate of speed.

Parallel: Being an equal distance apart at every point along two given lines or planes (i.e. the rip fence face is parallel to the face of the saw blade).

Perpendicular: Lines or planes that intersect and form right angles (i.e. the blade is perpendicular to the table surface).

Straightedge: A tool used to check the flatness, parallelism, or consistency of a surface(s).

Through Cut: A sawing operation in which the workpiece is completely sawn through.

Rip Cut: Cutting operation in which the rip fence is used to cut with the grain.

Plunge Cut: A sawing operation in which the cut is started above the workpiece; the blade engages the workpiece by "plunging" down at the beginning of the cut, and advances once the blade cuts through the workpiece.



Controls & Components

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

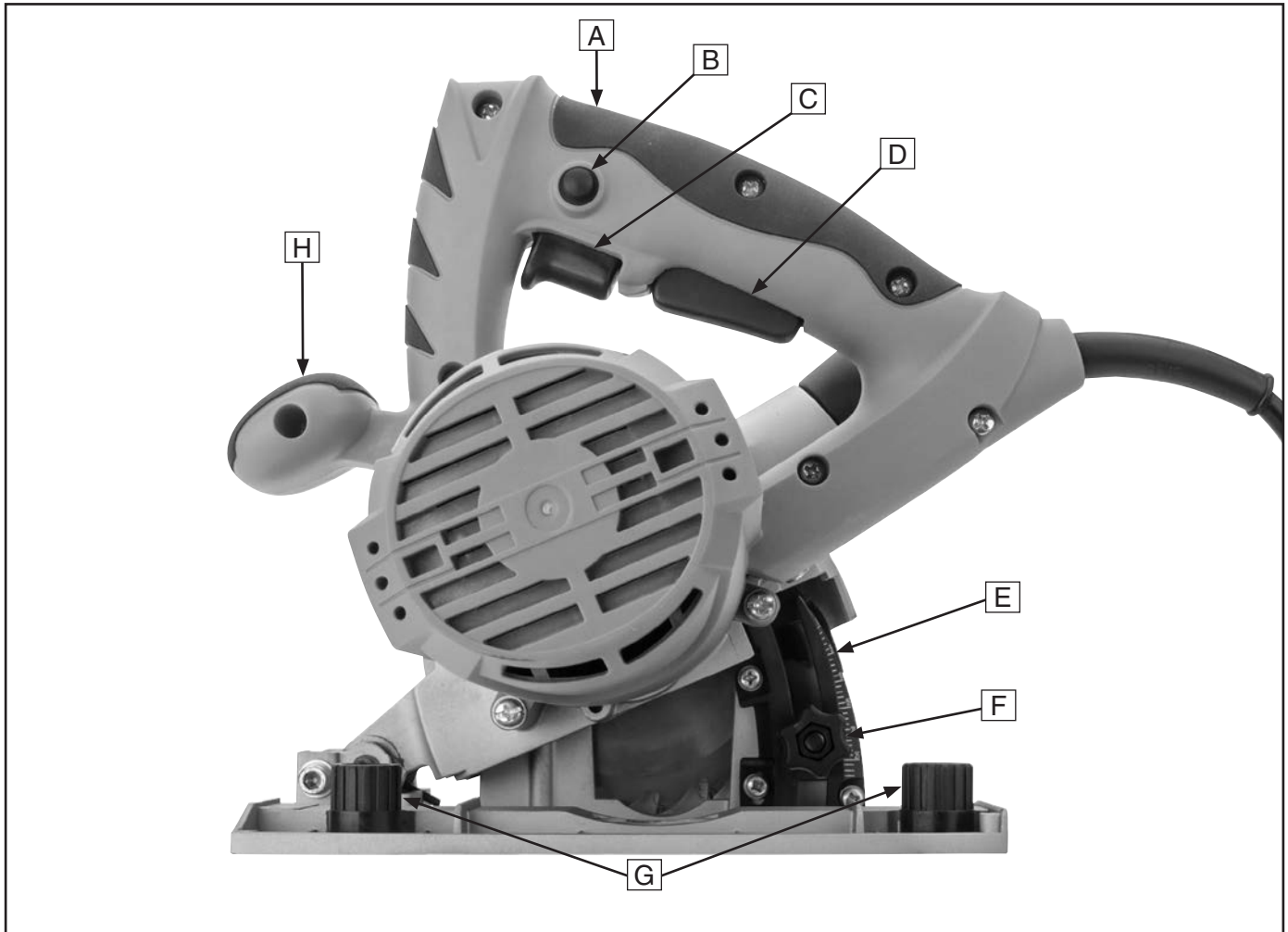


Figure 1. Controls and features (side view).

- A. Primary Handle:** Used to plunge saw and to advance its position on workpiece/rail track.
- B. Safety Button:** Helps prevent accidental startup of saw. Must be engaged for ON/OFF trigger to function.
- C. ON/OFF Trigger:** Starts/stops saw blade.
- D. Plunge Release:** Allows saw blade to pivot down and plunge into workpiece.
- E. Depth Scale:** Indicates maximum depth of cut.
- F. Depth Stop & Lock Knob:** Sets maximum depth at which saw blade will plunge.
- G. Rail Adjustment Knobs:** Allow for adjustment of play in how saw slides along rail track to ensure accurate cuts, and help to prevent saw from accidentally lifting off track.
- H. Secondary Handle:** Used to steady saw while making a cut.



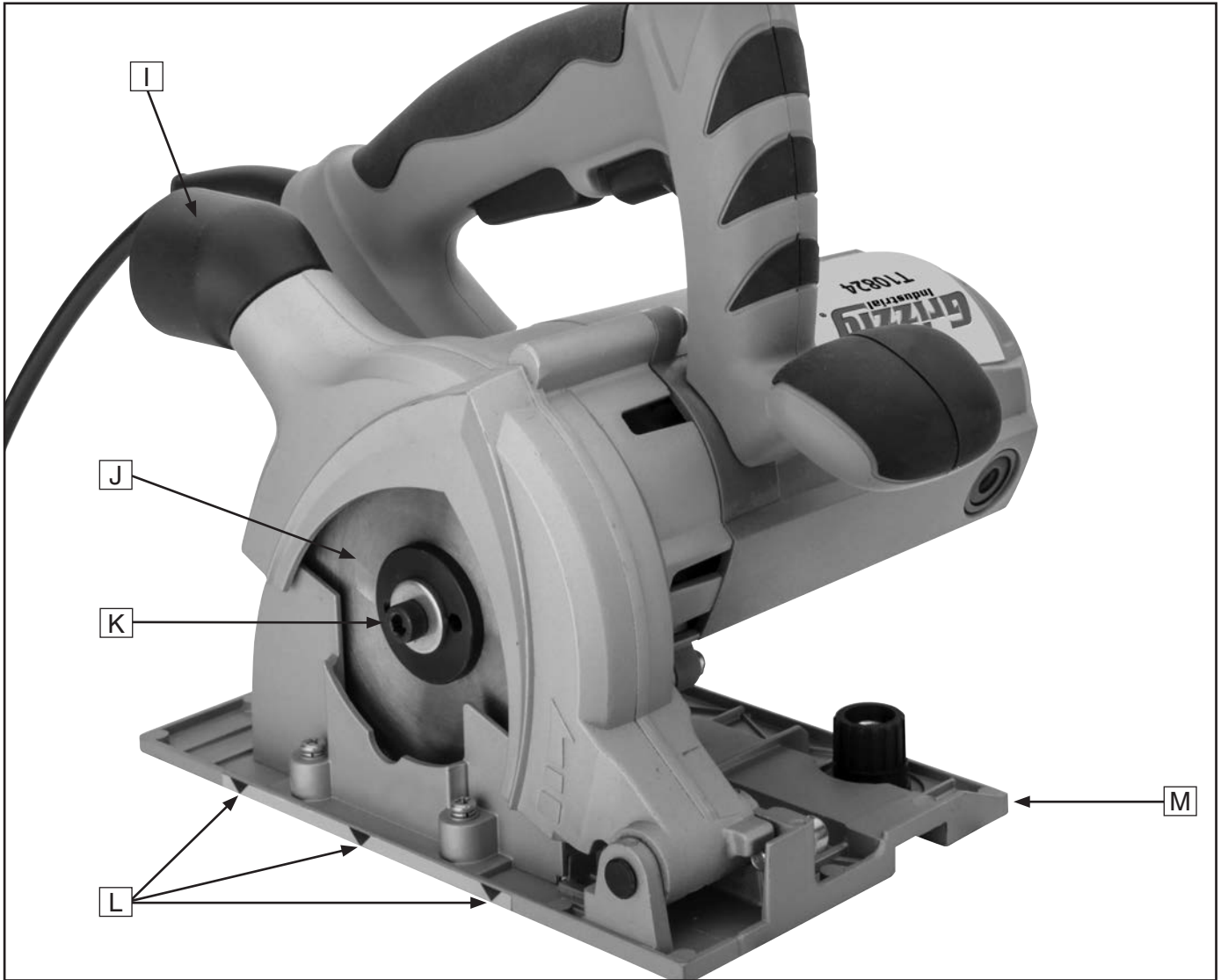


Figure 2. Controls and features (front view).

- I. Dust Collection Port:** 1½" port for connection to a dust collection system or shop vacuum (not included).
- J. Saw Blade:** This saw is designed for a blade that has a 115mm diameter, a 22mm arbor hole, and is 1.15mm thick. A 20-tooth, carbide-tipped blade is included.
- K. Arbor Bolt:** Holds saw blade in place on the arbor. Remove it to change blades.
- L. Cutting Indicator Arrows:** These three arrows indicate maximum blade reach for front, rear, and center point of blade.
- M. Base Plate:** Can be attached to optional rail track or placed directly on workpiece if track is not used.





MACHINE DATA SHEET

© Grizzly Industrial, Inc. • Customer Service: (800) 523-4777 • Tech Support: (570) 546-9663

MODEL T10824 MINI TRACK SAW 4½"

Product Dimensions:

Weight 7 lbs.
Width (side-to-side)/Depth (front-to-back)/Height 10¼" x 8⅞" x 8½"

Shipping Dimensions:

Type Cardboard Box
Content Machine
Weight 18 lbs.
Width/Depth/Height 12" x 19" x 11"

Electrical:

Switch Trigger with Safety Release Button
Cord Length 6 ft.
Cord Gauge 16 AWG
Plug Type Included NEMA 1-15 Two-Prong Polarized

Motor:

Type Universal
Horsepower 1.5 HP
Voltage 120V
Phase Single-Phase
Amps 10A
Speed 28,050 RPM
Cycle 60 Hz

Main Specifications:

Blade Specifications

Blade Diameter 4½"
Arbor Size 7/8"
Arbor Speed 12,000 RPM
Blade Rim Speed 14,222 FPM

Cutting Capacities

Maximum Depth of Cut at 90° (without rail track) 1¼"
Maximum Depth of Cut at 90° (with rail track) 1⅛"

Construction

Saw Construction Aluminum and Engineered Plastic
Hand Grips Plastic and Rubber
Number of Dust Ports 1
Dust Port Size 1½"



SECTION 1: SAFETY

For Your Own Safety, Read Instruction Manual Before Operating this Power Tool

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.



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



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



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

NOTICE

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

Safety Instructions for Power Tools

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 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.

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.



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 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.

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.

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

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

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

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

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

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.

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



Additional Safety for Circular Saws

WARNING

The primary risks of operating a Circular Saw are as follows: You can be seriously cut or have your fingers amputated from contact with the spinning saw blade. You can be blinded by flying workpiece chips, fragments, or dust from the cutting operation. To reduce your risk of serious injury when operating this power tool, completely heed and understand the following:

AVOID ACCIDENTAL CONTACT WITH BLADE.

Keep hands, fingers, and power cord clear of cutting path at all times. Never reach under workpiece near spinning blade. Never cut while supporting workpiece with one hand or balancing it on a leg or any other body part.

USE CORRECT CUTTING DEPTH. To minimize exposure spinning blade, set the cutting depth so the blade protrudes no more than 1/4" beyond the backside or bottom of the workpiece

ONLY CUT CORRECT MATERIAL. Use the correct blade for the type of material being cut. Only cut flat workpieces. Do not use this saw for cutting logs, roots, or trimming shrubs and trees (see **Page 17**). Do not use water when cutting tiles or stone, as this increases the risk of electric shock.

PROPERLY PERFORM PLUNGE CUTS. Before making blind plunge cuts, verify the cutting path is clear of obstructions (electrical wires, gas lines, plumbing, metal or stone, etc.) to reduce the risk of explosion, fire, electrocution, property damage, or kickback. Disconnect fuses or circuit breakers, and shut off water and gas lines located near cutting operation.

USE RECOMMENDED BLADES. Only use recommended blades for this saw. Do not use blades with different diameters or arbor hole shapes/sizes specified in this manual, as they will not rotate concentrically and may damage the saw and throw blade fragments with deadly force.

AVOID KICKBACK. Kickback is a sudden and unexpected expulsion of the saw from the workpiece. Avoid kickback by only performing straight cuts, properly supporting the workpiece, and using the correct blade for the material being cut (see **Page 12**).

STOPPING AND RESTARTING CUTS. Allow blade to reach full speed before cutting. Complete all cuts when possible. If a cut must be stopped before completion, let blade come to a complete stop before removing saw. Before resuming, place blade in center of kerf and verify teeth do not contact workpiece.

STEEL CUTTING SAFETY. Cutting steel can produce sparks. Do not cut steel near explosive gasses or flammable liquids.

HOT SURFACES. Contact with hot surfaces from machine components, ejections of hot chips, swarf, and the workpiece itself can cause burns.

PROPERLY MAINTAIN BLADES. Always ensure saw blades are sharp, undamaged, and properly installed/secured before each use.

MAINTAIN CLEARANCE UNDER WORKPIECE. Ensure adequate clearance under workpiece to reduce risk of blade inadvertently contacting materials (concrete, rocks, metal, etc.) that could break it and cause blade fragments to fly off and hit you or bystanders.



Understanding Kickback

Kickback is a sudden and unexpected expulsion of the saw from the workpiece, which can violently propel the saw back toward the operator, resulting in accidental blade contact or impact injury.

Kickback is caused when the saw blade becomes misaligned, pinched, bound, or comes in contact with a material it is unable to cut. When kickback occurs, the saw blade becomes immediately immobile. The force produced by the motor is diverted from the blade and transferred to the saw, pushing it up and away from the workpiece and potentially toward the operator.

The lack of warning and high risk of injury from kickback makes it extremely important to: (1) reduce the risk of kickback, and (2) protect yourself in case it does occur.

Preventing Kickback

Take these precautions to help prevent the most common causes of kickback:

- Hold saw firmly with both hands and position arms to help resist kickback forces. Always stand to one side of saw when operating—never directly behind it. When kickback does occur, it will eject the saw back toward the operator.
- Ensure workpiece remains level and immobile throughout your cut. Do not cut warped, cupped, or twisted workpieces. Minimize the chances of the workpiece rocking, rotating, or shifting, which could bind the blade and allow kickback to occur. Clamp workpiece in place if necessary.
- Support large panels, making sure supports are positioned under both sides of the cutting line.

- Allow blade to reach full speed before starting the cut.
- To help prevent the blade from binding in the workpiece: (1) keep cuts straight, (2) maintain a consistent depth and angle throughout cut, (3) provide proper workpiece support on both sides of the cut (see **Figures 3, 4**).

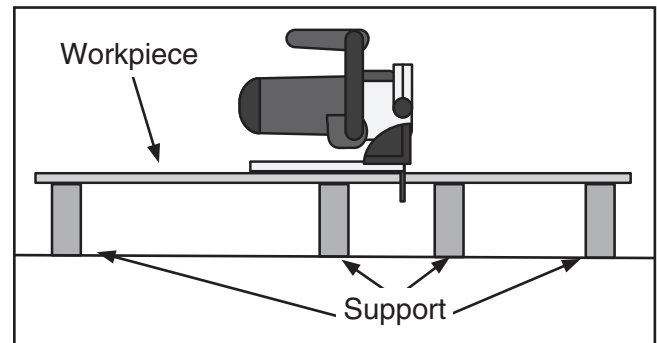


Figure 3. Cutting with proper workpiece support.

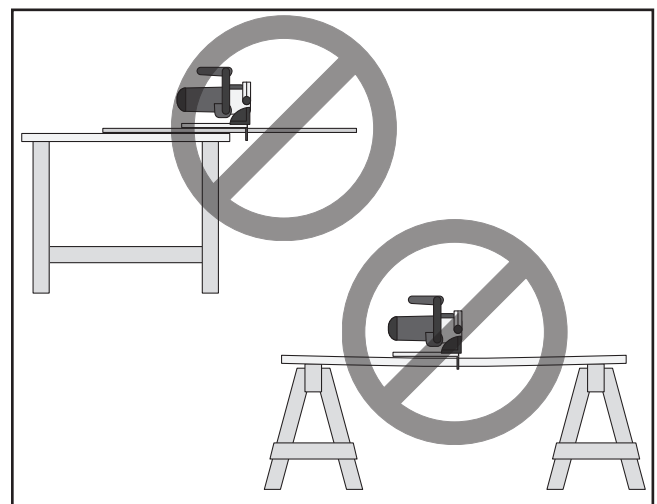


Figure 4. Cutting with improper support.

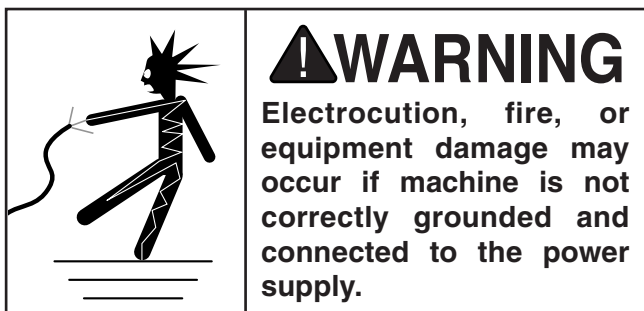
- Follow cuts through to completion whenever possible. If a cut must be stopped before completion or the blade begins to bind, release the ON/OFF trigger and hold the saw motionless while the blade comes to a complete stop before removing it from the workpiece. When resuming the cut, center your blade in the kerf and ensure that the teeth are not touching the workpiece.
- Only use sharp, clean, undamaged blades. Dull blades create much more friction and resistance while cutting, which greatly increases the risk of kickback.



SECTION 2: POWER SUPPLY

Availability

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



Full-Load Current Rating

The full-load current rating is the amperage a machine draws at 100% of the rated output power. On machines with multiple motors, this is the amperage drawn by the largest motor or sum of all motors and electrical devices that might operate at one time during normal operations.

Full-Load Current Rating at 120V 10 Amps

The full-load current is not the maximum amount of amps that the machine will draw. If the machine is overloaded, it will draw additional amps beyond the full-load rating.

If the machine is overloaded for a sufficient length of time, damage, overheating, or fire may result—especially if connected to an undersized circuit. To reduce the risk of these hazards, avoid overloading the machine during operation and make sure it is connected to a power supply circuit that meets the specified circuit requirements.

! WARNING

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

Circuit Requirements

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

Voltage..... 120V
Cycle.....60 Hz
Phase..... Single-Phase
Power Supply Circuit 15 Amps

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

! CAUTION

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

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



Polarized Plug

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

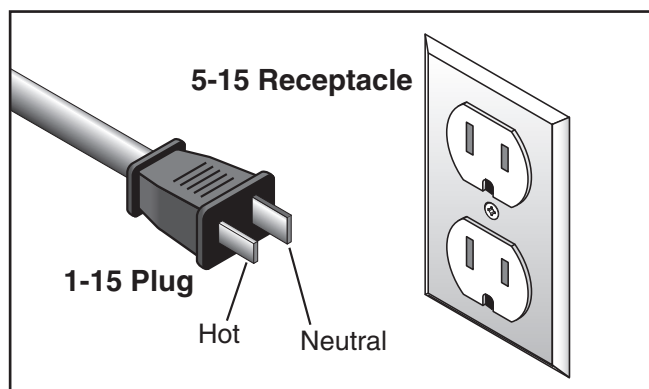


Figure 5. Typical 1-15 plug and receptacle.

Extension Cords

When using extension cords, make sure the cords are rated for outdoor use. Outdoor use cords are marked with a "W-A" or a "W" to signify their rating. Always check to make sure that the extension cords are in good working order and free of any type of damage, such as exposed wires, cuts, creased bends, or missing prongs.

Extension cords cause voltage drop, which may damage electrical components and shorten motor life. Voltage drop increases as the extension cord size gets longer and the gauge size gets smaller (higher gauge numbers indicate smaller sizes). When using extension cords, always choose the shortest cord possible, with the greatest-sized gauge.

Below is a list of minimum gauge sizes needed for running this tool at different lengths:

25 Feet	16 AWG
50 Feet	14 AWG
100 Feet	12 AWG
Over 100 Feet	Not Recommended



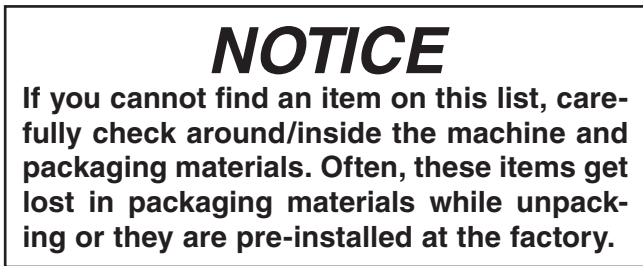
SECTION 3: SETUP

Unpacking

Your machine was carefully packaged for safe transportation. Remove the packaging materials from around your machine and inspect it. If you discover any damage, *please call us immediately at (570) 546-9663 for advice.*

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

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



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.

Main Inventory (Figure 6)	Qty
A. Track Saw.....	1
B. Blades (one shown installed)	4
C. Hex Wrench 5mm.....	1
D. Spanner Wrench 24mm	1

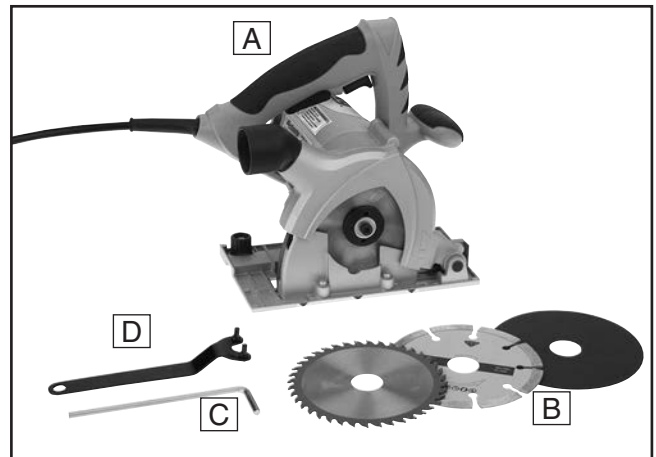


Figure 6. Model T10824 inventory.



Dust Collection

⚠ CAUTION

This machine creates substantial amounts of 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.

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 a dust collection hose:

1. Fit a 1½" dust collection hose or shop vacuum hose over the dust port (see **Figure 7**), and secure in place with a hose clamp.
2. Tug hose to make sure it does not come off. **Note:** A tight fit is necessary for proper performance.

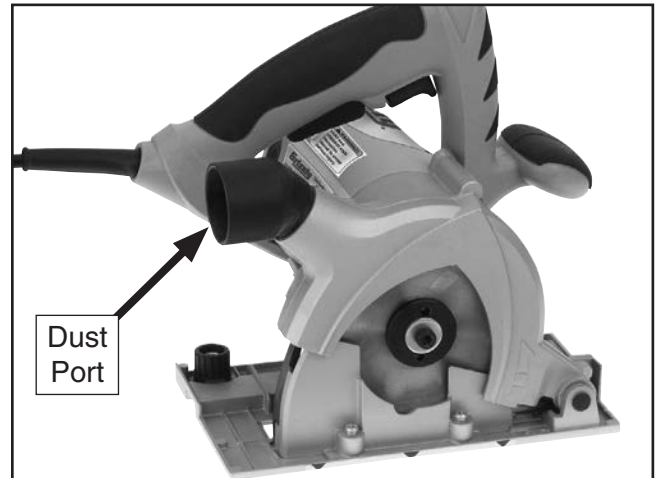


Figure 7. Dust port location.



SECTION 4: OPERATIONS

Blade Selection

Always use sharp blades and select the correct blade for the material being cut. The resulting cut will be cleaner and there will be less stress on the machine. Always inspect saw blades closely before installation, and never use saw blades with bent or missing teeth, or that appear damaged in any way.

Blade Requirements:

- Diameter: 115mm
- Bore: 22mm

The T10824 Track Saw comes with the following blades designed to be used with different materials (see **Figure 8**).

- A. Coarse-Tooth Blade:** for use with wood and wood-based material.
- B. Diamond Blade:** for use with tiles and stone.
- C. Abrasive Blade:** for use with steel.
- D. Fine-Tooth Blade:** for use with soft metals (aluminum, copper, brass), single-sided coated sheet materials, and plastics.

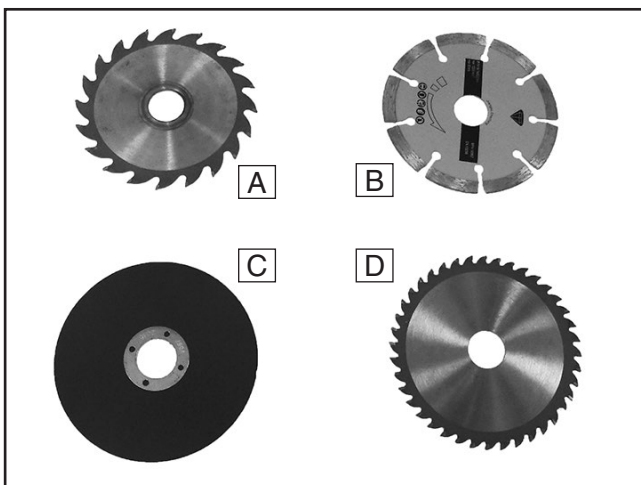
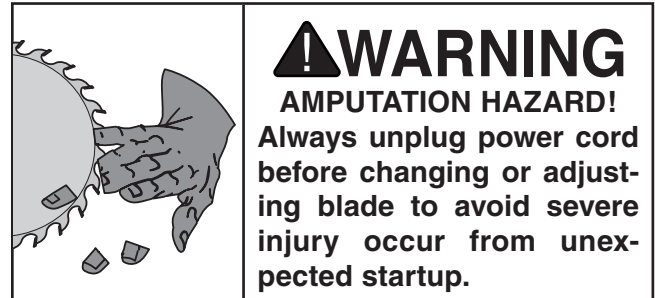


Figure 8. Included blades.

Changing Blades



To replace blade:

1. DISCONNECT SAW FROM POWER!
2. Loosen release screw 4-5 turns (see **Figure 9**) and allow saw to pivot up for access to blade.



Figure 9. Release screw used to open saw when changing blade.

Continued on next page →



3. With saw in open position, as shown in **Figure 10**, steady arbor by inserting 24mm spanner wrench into two holes on outer flange.

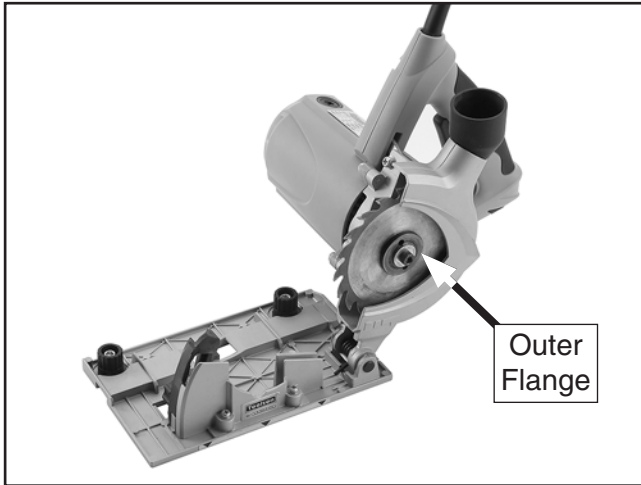


Figure 10. Saw in open position for blade change.

4. With free hand, use 5mm hex wrench to loosen arbor bolt (see **Figure 11**).



Figure 11. Removing arbor bolt.

5. Remove arbor bolt, washer, outer flange, and blade. Make sure inner flange remains seated on arbor.

6. Slide new blade onto arbor, ensuring that teeth at bottom of blade face forward, as shown in **Figure 12**.

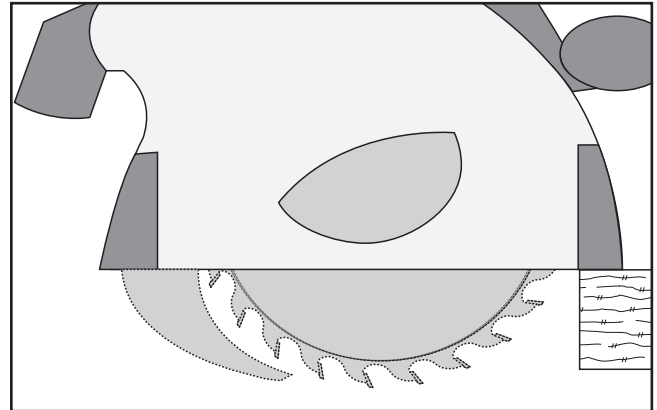


Figure 12. Example of proper blade orientation.

7. Using spanner wrench and hex wrench, install outer flange, washer, and arbor bolt, as shown in **Figure 13**. The flat side of outer flange faces AWAY from blade. The indented side faces TOWARD blade.

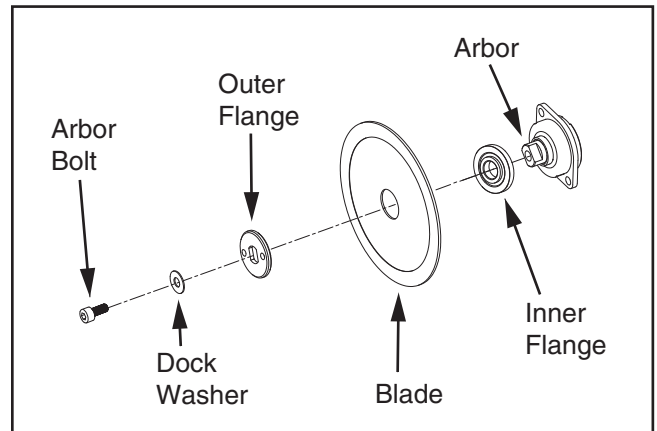


Figure 13. Installation order of blade and related components.

8. Pivot saw all the way down, then tighten release screw shown in **Figure 9** on **Page 17**.



Setting Cutting Depth

It is important to set the cutting depth of the saw, which limits the amount of blade that is exposed during the cutting operation.

To set cutting depth:

1. DISCONNECT SAW FROM POWER!
2. Loosen lock knob (see **Figure 14**) to adjust depth stop along scale to maximum depth desired for cut.

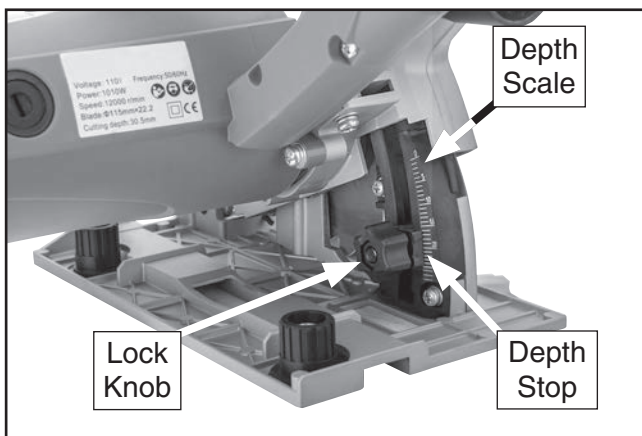


Figure 14. Depth-setting components.

3. Position saw along one edge of workpiece, press plunge release, and extend blade roughly $\frac{1}{8}$ " beyond bottom of workpiece, as shown in **Figure 15**.

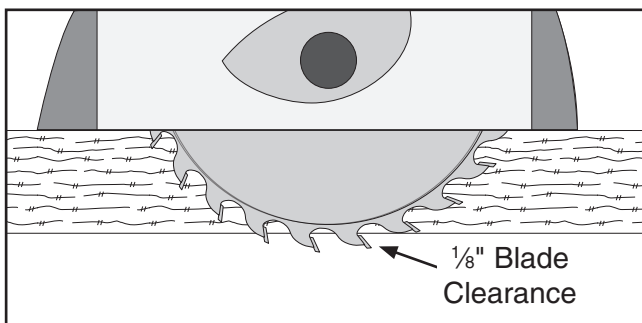


Figure 15. Setting saw depth by aligning blade with workpiece.

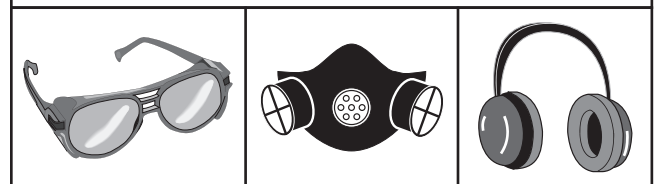
4. Adjust depth stop so it contacts saw body, then retighten lock knob. The saw blade will now plunge only to that set point.

Note: The cutting depth shown on the scale is the depth *WITHOUT* rail track. The track adds an additional $\frac{3}{16}$ " thickness between saw base and workpiece.

Making Straight Cuts

⚠ 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.



Straight cuts are made with the blade already extended, with the cut beginning on one edge of the workpiece and ending on the opposite side. These cuts work well for cutting objects into separate pieces and for straight-lining rough lumber.

To make basic straight cuts:

1. Set depth of cut (as described in **Setting Cutting Depth** section on this page).
2. Position front of saw on workpiece, leaving enough room for blade to fully extend from bottom without coming into contact with workpiece, as shown in **Figure 16**.

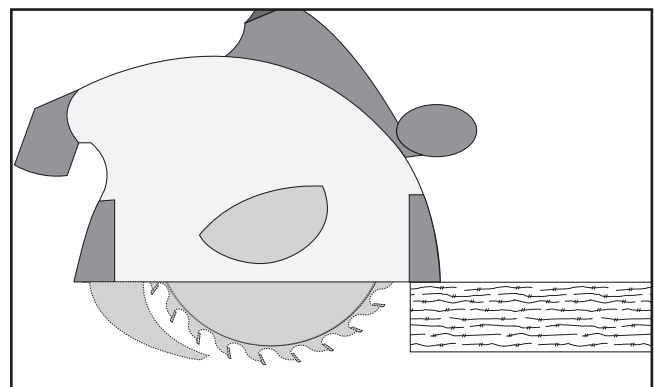


Figure 16. Example of positioning saw on workpiece for straight cut.

Continued on next page →



3. Hold saw firmly with one hand on each handle, as shown in **Figure 17**.



Figure 17. Proper hand positions.

! WARNING

Keep fingers and hands away from saw blade and out of blade path during operation. Use clamps to hold workpiece in place if needed.

! CAUTION

Let saw reach full speed before contacting workpiece. Doing so will reduce risk of kickback, help provide cleanest cut, and reduce stress on motor.

4. Engage plunge release and extend blade. To activate saw, engage safety button and press ON/OFF trigger while holding plunge release.
5. Move saw forward over workpiece in an even, steady motion.
6. When finished, release ON/OFF trigger and allow blade to come to a complete stop. Return saw to its upright position by lifting up on handle, allowing blade to retract and saw to lock in place.

Making Plunge Cuts

Plunge cuts are made by lowering the spinning blade into the workpiece. Plunge cuts work well for removing an area within the workpiece without sawing through the outer perimeter.

! WARNING

Making blind plunge cuts without checking your cutting path for unseen objects could result in injury from kickback, electrocution, building damage or fire, gas explosions, or death. Whenever making a blind plunge cut into a standing structure (like a wall), always check the cutting path for hidden wires, nails, and other metal objects by thoroughly scanning the area with an electric stud finder or similar device. **NEVER** risk a blind plunge cut without first checking your cutting path.

! WARNING

Whenever operating saw in vicinity of live wires, always wear insulated gloves. Hold saw by the insulated handle to avoid electrocution if contact with wires does occur. Avoid unintentionally grounding yourself when operating saw by being in contact with electrically-conductive materials (metal pipes, appliances, etc.).

To make plunge cuts:

1. Mark desired start and stop cut-points on workpiece.
2. Set depth of cut (as described in **Setting Cutting Depth** section on **Page 19**).



3. Align start cut-point with rear cutting indicator arrow (see **Figure 18**). This arrow marks maximum rear cutting distance blade will travel when fully extended.

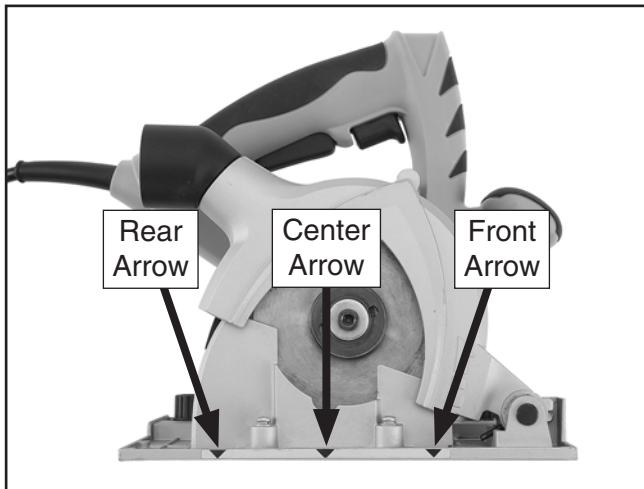


Figure 18. Cutting indicator arrows.

Note: *The front and rear cutting indicator arrows are only accurate when the blade is fully extended. If the saw depth gauge is set, maximum cutting distance will be less.*

4. Engage plunge release and lower blade slightly, but without touching workpiece.
5. To activate saw, engage safety button and press **ON/OFF** trigger while holding plunge release.
6. Lower blade into workpiece until set cutting depth is reached. Move saw forward in an even, steady motion. When front indicator arrow reaches stop point, the cut has been completed.

⚠ CAUTION

Allow the saw to reach full speed before beginning the cut. Doing so will reduce risk of kickback, provide better cutting results, and reduce stress on the motor.

Using Rail Track

The 24" Rail Track (Model T10825) and Accessory Pack (Model T27044) are available for purchase separately through our catalog and on-line.

Using your saw with the rail track allows for quick and precise cuts with minimal setup time. Both straight cuts and plunge cuts can be made in conjunction with the rail track.

Note: *The bottom of the rail track includes an oversized rubber lip that serves as a splinter guard. The first time the track saw is used with the rail, the saw blade will cut the edge of that lip to provide a zero-clearance effect, which will help minimize splintering.*

To set up saw with rail track:

1. DISCONNECT SAW FROM POWER!
2. Place track on workpiece. Orient track so that your cut-off will be to right of track.
3. When satisfied with position of rail track, use F-clamps to secure it to workpiece, as shown in **Figure 19**, and place saw onto rail track.

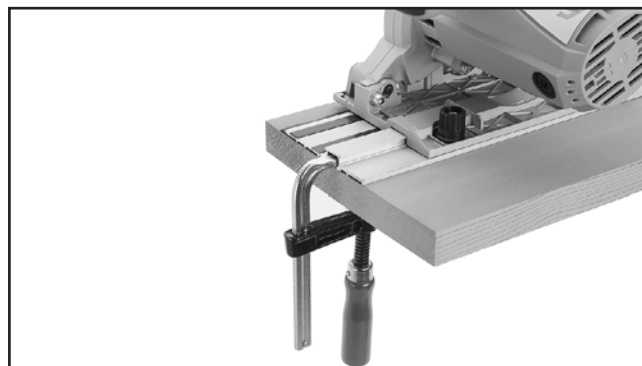


Figure 19. Rail track clamped to workpiece.



4. Configure rail adjustment knobs to minimize play and achieve desired gliding friction (see **Figure 20**). When engaged, rail adjustment knobs can help keep saw from lifting off track.

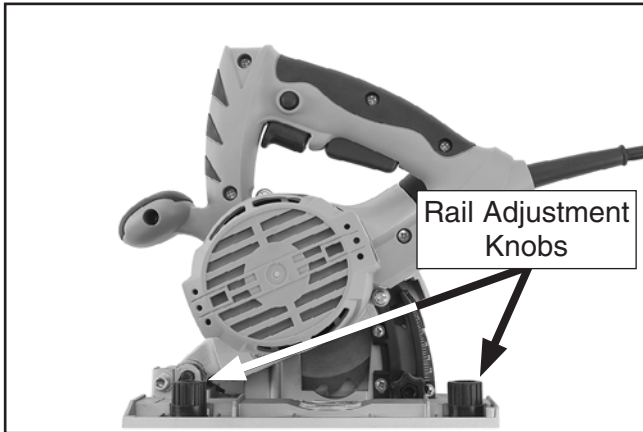


Figure 20. Location of rail adjustment knobs.

Adding Rail Tracks

Additional rail tracks (Model T10825) can be purchased and joined together for increased cutting length. To connect multiple tracks, insert connector into inner grooves of each rail track (see **Figure 21**). Flip rail tracks over and slide tracks together so that the connector is equally-distributed. Use a straight edge to align tracks, then tighten connector set screws with a hex wrench.

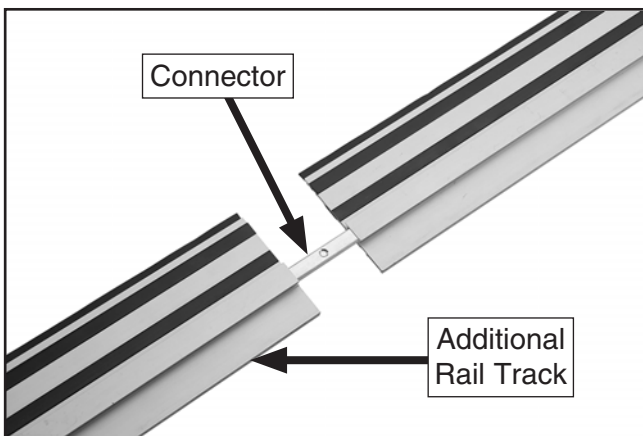


Figure 21. Joining two rail tracks.

Using Adjustable Stop

The adjustable stop included in the Model T27044 Accessory Pack (see **Figure 22**) attaches to the rail track and is positioned in front of the saw body, to provide a stable stopping point. This can be especially useful when making plunge cuts.

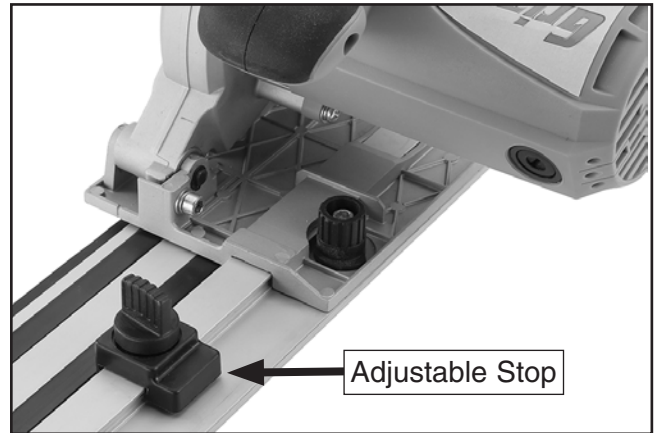


Figure 22. Adjustable stop on rail track.



SECTION 5: ACCESSORIES

!WARNING

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

NOTICE

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

T10825—24" Track for T10824

Rail track which can be joined to existing rail track with provided connector for increased cutting length. Additional tracks can be purchased and joined together for longer cuts.

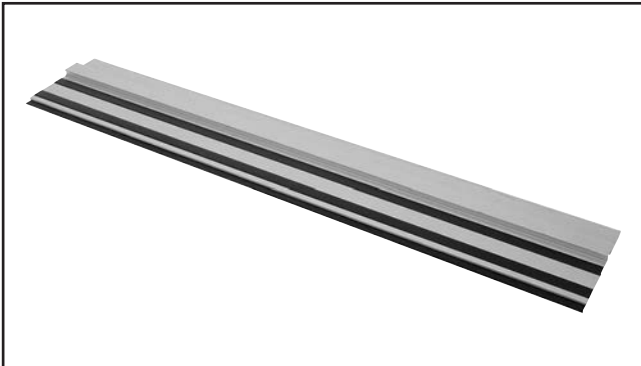


Figure 23. Model T10825 24" Track for T10824.

G5898—12' x 1½" Dust Collection Hose

Vacuum hose for use with dust collection system or shop vacuum, available through our catalog and website.

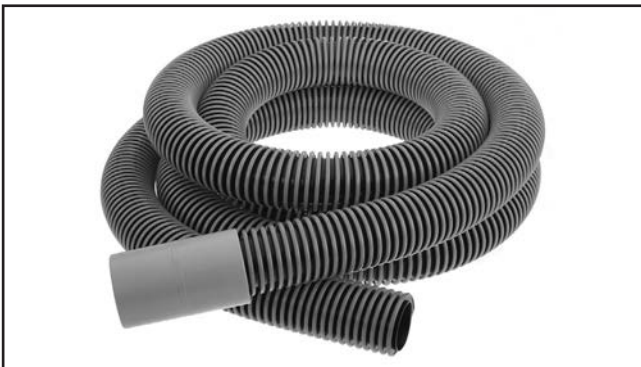


Figure 24. Model G5898 Vacuum Hose.

T27044—Accessory Pack for T10824

Includes rail track connector for extending track, two rail clamps for securing track to workpiece, and an adjustable stop.



Figure 25. T27044 Accessory Pack for T10824.

H4978—Deluxe Earmuffs - 27dB

H4979—Twin Cup Hearing Protector - 29dB

T20446—Ear Plugs 200 Pair - 31dB

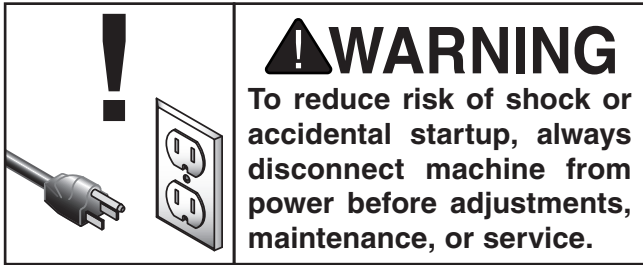
Protect your hearing before its too late. Especially important if you or employees operate for hours at a time.



Figure 26. Hearing protection assortment.



SECTION 6: MAINTENANCE



Electrical

The electrical components of this saw are not user-serviceable. This product is double-insulated, which provides protection from electrical shock should a problem ever develop with grounding.

Great care must be taken whenever servicing double-insulated equipment to make certain repair does not destroy the insulated properties. Service should be performed only by or under the guidance of qualified service personnel.

Cleaning

Cleaning the Model T10824 is relatively easy. Vacuum excess wood chips and sawdust, and wipe off remaining dust with a dry cloth.

Lubrication

All rotating parts within the saw are pre-lubricated and sealed. Do not attempt to lubricate the saw or saw blade. The saw requires dry conditions for proper use.

Blade

Always check saw blade for damage or excessive wear before each use.

Brush Replacement

This saw uses two carbon brushes to transmit electrical current inside the motor. Replace the carbon brushes when the motor no longer reaches full power.

Tools Needed
Flat Head Screwdriver #2..... 1

Replacement brush part number: P10824065

To replace motor brushes:

1. DISCONNECT SAW FROM POWER!
2. Using a #2 flat head screw driver, unscrew front brush cap and carefully remove brush from motor (see **Figure 27**).

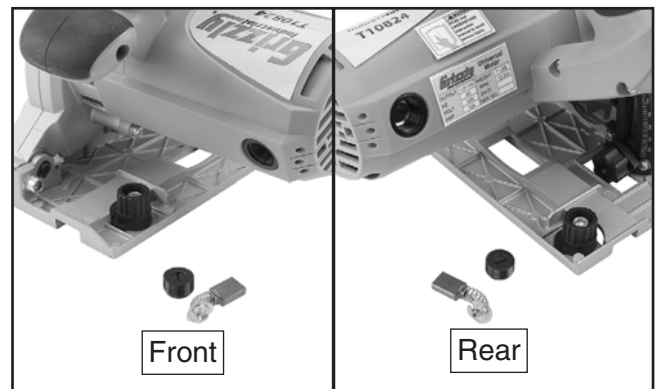


Figure 27. Motor brush removal.

3. Unscrew rear brush cap and remove brush from motor (see **Figure 27**).
4. Install new brushes.
5. Re-install brush caps.
6. Test run saw to ensure that it is working properly.

If saw does not start or run properly after installing new brushes, disconnect it from power and contact Grizzly Tech Support for assistance.

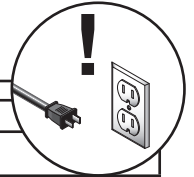


SECTION 7: SERVICE

Review the troubleshooting and procedures in this section if a problem develops with your machine. If you need replacement parts or additional help with a procedure, call our Technical Support at (570) 546-9663.

Note: Please gather the serial number and manufacture date of your machine before calling.

Troubleshooting



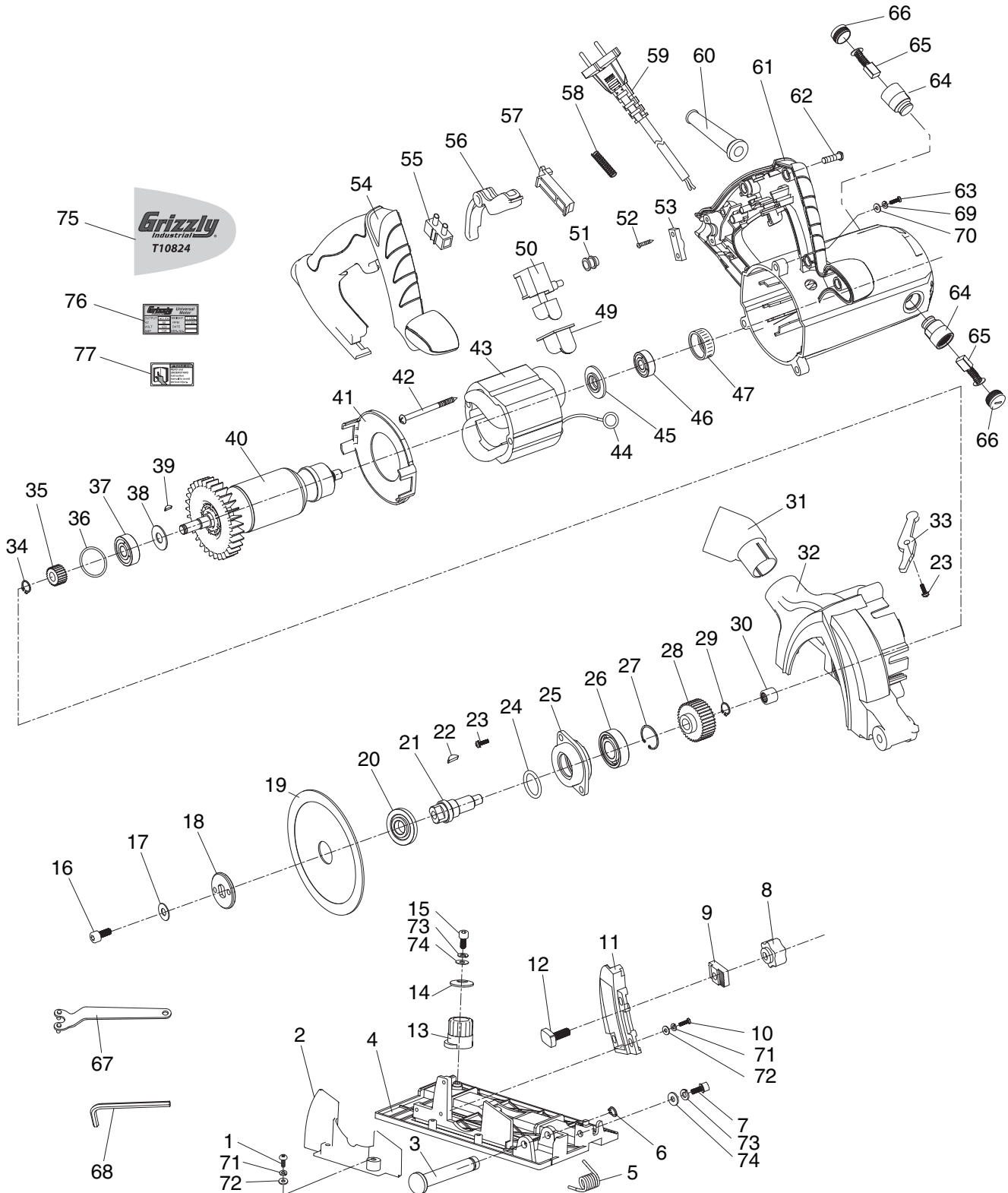
Symptom	Possible Cause	Possible Solution
Saw does not start.	<ol style="list-style-type: none"> 1. Power supply switched OFF, breaker tripped, fuse blown, or power supply is at fault. 2. Motor overloaded. 3. Motor brushes at fault. 4. ON/OFF switch at fault. 5. Motor at fault. 	<ol style="list-style-type: none"> 1. Ensure power supply is on/has correct voltage. 2. Allow the motor to cool down completely and retry. 3. Remove/replace brushes (Page 24). 4. Replace switch.* 5. Test/repair/replace.*
Saw stalls or is underpowered.	<ol style="list-style-type: none"> 1. Tool is undersized for task. 2. Motor brushes at fault. 3. Motor bearings at fault. 4. Motor overheated. 5. Motor at fault. 	<ol style="list-style-type: none"> 1. Use correct blade/reduce feed rate or depth of cut. 2. Remove/replace brushes (Page 24). 3. Test/repair/replace.* 4. Clean motor, let cool, and reduce workload. 5. Test/repair/replace.*
Saw has vibration or noisy operation.	<ol style="list-style-type: none"> 1. Damaged windings or faulty motor. 2. Blade at fault. 3. Workpiece loose. 	<ol style="list-style-type: none"> 1. Test/repair/replace.* 2. Replace warped/bent blade; resharpen dull blade. 3. Ensure workpiece is properly supported/clamped.
Cuts are rough or wavy; workpiece rips or splinters.	<ol style="list-style-type: none"> 1. Saw blade is dull. 2. Incorrect blade for workpiece. 3. Excessive force when cutting. 4. Improper blade depth. 	<ol style="list-style-type: none"> 1. Resharpen or replace the dull blade. 2. Replace with proper saw blade. 3. Decrease pressure when cutting and allow saw to move through workpiece at a slower rate. 4. Slightly increase/decrease depth of cut.
Blade is burning workpiece.	<ol style="list-style-type: none"> 1. Saw blade is dull. 2. Blade installed backward. 3. Incorrect blade for workpiece. 	<ol style="list-style-type: none"> 1. Resharpen or replace the dull blade. 2. Remove/re-install blade correctly (Pages 17-18). 3. Replace with proper blade.

* Solution should only be carried out by or under the supervision of qualified service personnel.



SECTION 8: PARTS

T10824 Parts Breakdown



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 to check for availability.



T10824 Parts List

REF	PART #	DESCRIPTION
1	PT10824001	PHLP HD SCR M4-.7 X 14
2	PT10824002	SAW BLADE LOWER GUARD
3	PT10824003	GROOVED CLEVIS PIN 7 X 45MM
4	PT10824004	BASE PLATE
5	PT10824005	TORSION SPRING
6	PT10824006	EXT RETAINING RING 7MM
7	PT10824007	CAP SCREW M6-1 X 16
8	PT10824008	HEIGHT ADJUSTMENT KNOB M6-1
9	PT10824009	SCALE GUIDE SPACER
10	PT10824010	PHLP HD SCR M4-.7 X 10
11	PT10824011	HEIGHT SCALE
12	PT10824012	HEIGHT SCALE T-BOLT M6-1 X 20
13	PT10824013	RAIL ADJUSTMENT KNOB
14	PT10824014	TRIPLE-WAVE WASHER 10MM
15	PT10824015	CAP SCREW M6-1 X 12
16	PT10824016	CAP SCREW M8-1.25 X 16
17	PT10824017	DOCK WASHER 8MM
18	PT10824018	OUTER FLANGE
19	PT10824019	SAW BLADE 4.5" (110MM)
20	PT10824020	INNER FLANGE
21	PT10824021	BLADE ARBOR
22	PT10824022	WOODRUFF KEY 4 X 13
23	PT10824023	PHLP HD SCR M5-.8 X 16
24	PT10824024	O-RING 19 X 2.6
25	PT10824025	BEARING COVER
26	PT10824026	BALL BEARING 6002-2RS
27	PT10824027	INT RETAINING RING 32MM
28	PT10824028	BIG GEAR 34T
29	PT10824029	EXT RETAINING RING 15MM
30	PT10824030	NEEDLE BEARING BK0810
31	PT10824031	DUST PORT 1.5"
32	PT10824032	HEADSTOCK
33	PT10824033	PLUNGE LOCK LEVER
34	PT10824034	EXT RETAINING RING 8MM
35	PT10824035	SMALL GEAR 16T
36	PT10824036	O-RING 26 X 1.8
37	PT10824037	BALL BEARING 629-2RS
38	PT10824038	BEARING BAFFLE

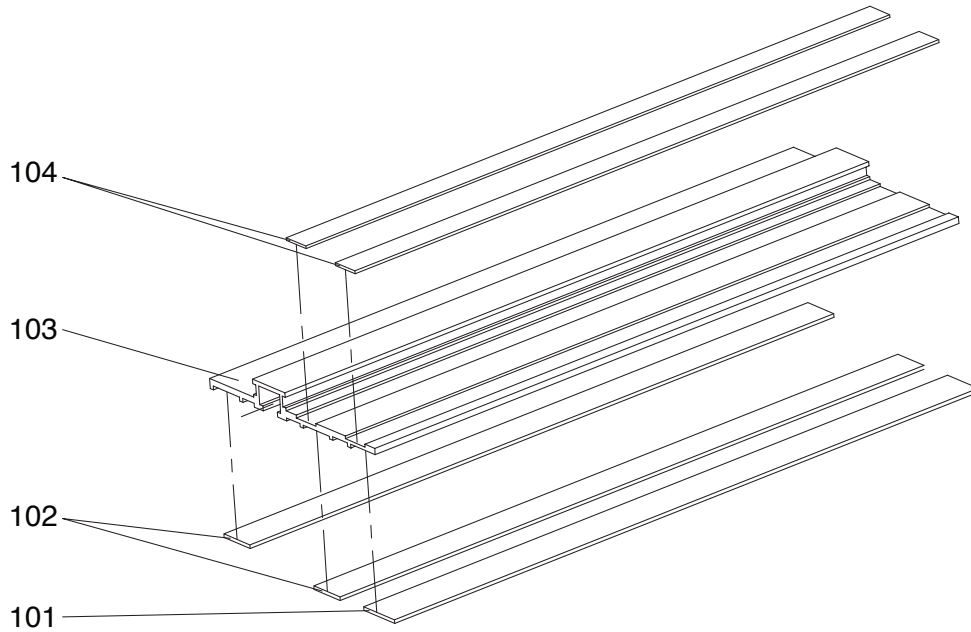
REF	PART #	DESCRIPTION
39	PT10824039	WOODRUFF KEY 4 X 12
40	PT10824040	ROTOR
41	PT10824041	FAN SHROUD
42	PT10824042	TAP SCREW M5 X 16
43	PT10824043	STATOR
44	PT10824044	STATOR WIRING SPRING RING
45	PT10824045	BEARING BAFFLE
46	PT10824046	BALL BEARING 608-2RS
47	PT10824047	BEARING BUSHING 608
49	PT10824049	DUST COVER FOR TRIGGER SWITCH
50	PT10824050	TRIGGER SWITCH
51	PT10824051	TRIGGER SWITCH SELF-LOCKING CAP
52	PT10824052	TAP SCREW M4 X 14
53	PT10824053	CABLE CLAMP
54	PT10824054	HANDLE COVER
55	PT10824055	WIRE CONNECTOR
56	PT10824056	PLUNGE TRIGGER
57	PT10824057	TRIGGER/LEVER CONNECTOR
58	PT10824058	COMPRESSION SPRING 0.6 X 5.9 X 31MM
59	PT10824059	POWER CORD 16AWG 2W 72" 1-15P
60	PT10824060	CABLE SLEEVE
61	PT10824061	MOTOR HOUSING
62	PT10824062	TAP SCREW M4 X 16
63	PT10824063	PHLP HD SCR M5-.8 X 20
64	PT10824064	CARBON BRUSH HOLDER
65	PT10824065	CARBON BRUSH 2-PC SET
66	PT10824066	CARBON BRUSH COVER
67	PT10824067	SPANNER WRENCH 24MM PIN-TYPE
68	PT10824068	HEX WRENCH 5MM
69	PT10824069	LOCK WASHER 5MM
70	PT10824070	FLAT WASHER 5MM
71	PT10824071	LOCK WASHER 4MM
72	PT10824072	FLAT WASHER 4MM
73	PT10824073	LOCK WASHER 6MM
74	PT10824074	FLAT WASHER 6MM
75	PT10824075	LOGO AND MODEL # LABEL
76	PT10824076	MOTOR LABEL
77	PT10824077	READ MANUAL LABEL 0.75H X 1.5W

WARNING

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

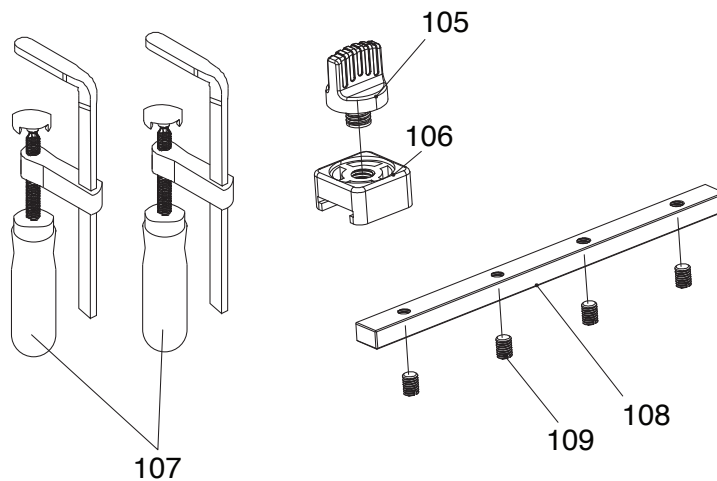


T10825 Rail Track



REF	PART #	DESCRIPTION
101	PT10824101	BOTTOM RUBBER STRIP
102	PT10824102	BOTTOM RUBBER FOAM STRIP
103	PT10824103	ALUMINUM TRACK 24"
104	PT10824104	TOP PLASTIC STRIP

T27044 Accessory Pack



REF	PART #	DESCRIPTION
105	PT10824105	LOCK KNOB M10 X 10 (PLASTIC)
106	PT10824106	ADJUSTABLE STOP
107	PT10824107	F-CLAMP
108	PT10824108	TRACK CONNECTOR
109	PT10824109	SET SCREW M6-1 X 8





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 Card Deck Website Other:

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<input type="checkbox"/> Family Handyman	<input type="checkbox"/> Popular Woodworking	<input type="checkbox"/> Woodshop News
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<input type="checkbox"/> Home Shop Machinist	<input type="checkbox"/> RC Modeler	<input type="checkbox"/> Woodworker West
<input type="checkbox"/> Journal of Light Cont.	<input type="checkbox"/> Rifle	<input type="checkbox"/> Woodworker's Journal
<input type="checkbox"/> Live Steam	<input type="checkbox"/> Shop Notes	<input type="checkbox"/> Other:
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3. What is your annual household income?

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

4. What is your age group?

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

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

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

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

0-2 3-5 6-9 10+

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

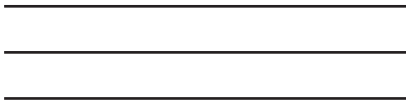
8. Would you recommend Grizzly Industrial to a friend? Yes No

9. Would you allow us to use your name as a reference for Grizzly customers in your area?
Note: We never use names more than 3 times. Yes No

10. Comments: _____

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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.

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