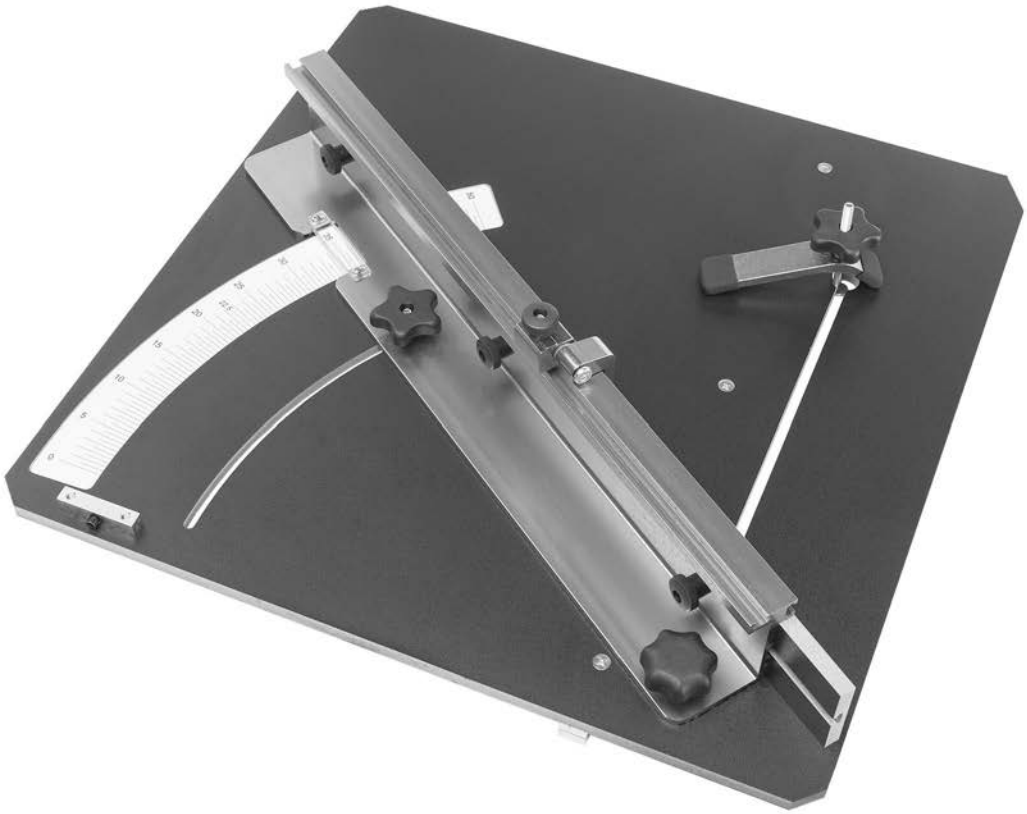
MODEL T33988
CROSSCUT SLED
OWNER'S MANUAL
(For models manufactured since 11/23)



#CS22985 PRINTED IN TAIWAN V1.01.24

******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

INTRODUCTION

Contact Info

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

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

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

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

Specifications

Product Weight	11 lbs.
Width x Depth x Height	27-3/8 x 24 x 5-3/4 in.
Table Saw Requirements	
Type	Cabinet
Table Miter Slot Width	3/4 in.
Table Miter Slot Depth	3/8 in.
Blade to Miter Slot Minimum Distance	4-1/4 in.
Blade Tilt	0 deg.
Fence Angle	0–49-1/2 deg.
Fence T-Slot Size	5/16 in.
Fence Face Length	24-3/8 in.
Fence Face Width	1/2 in.
Fence Face Height	2-9/16 in.
Construction	
Sled	Laminated MDF
Fence	Aluminum
Fence Face	Laminated MDF
Miter Bar	Aluminum

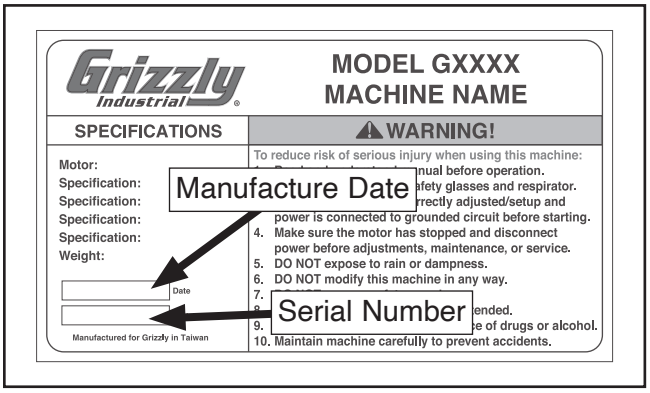
Manual Accuracy

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

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

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

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



SECTION 1: SAFETY

For Your Own Safety, Read Instruction Manual Before Operating This Machine

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

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

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

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

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

Safety Instructions for Machinery

⚠WARNING

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

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

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

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

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

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

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

⚠WARNING

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional Safety for Crosscut Sleds

⚠WARNING

Serious cuts, amputation, or death can occur from contact with rotating saw blade during operation. Workpieces, broken blades, or flying particles thrown by blade can blind or strike operators or bystanders with deadly force. To minimize the risk of these hazards, operators and bystanders MUST completely heed the hazards and warnings below.

HAND & BODY POSITIONING. Keep hands away from blade and out of blade path during operation, so they cannot accidentally slip into blade. Only operate at front of saw and always stand to side of blade path. Never reach behind or over blade when blade is spinning.

KICKBACK. Kickback occurs when saw blade ejects workpiece back toward operator. Know how to reduce risk of kickback, and learn how to protect yourself if it does occur.

FEEDING SLED. Feeding sled incorrectly increases risk of kickback. Turn ***OFF*** machine and feed sled through saw to check for blade interference and to ensure proper outfeed support. Always allow blade to reach full speed before cutting. Feed sled from front of saw, making sure workpiece is flat against sled base and sled fence. ALWAYS use two hands to firmly hold and maintain downward pressure on sled. Failure to maintain downward pressure on sled could cause it to lift out of miter slot. Feed cuts through to completion. Never pull sled from behind blade or make plunge cut.

CUT-OFF PIECES. To avoid risk of injury due to blade contact, turn saw ***OFF*** and allow blade to completely stop before removing cut-off pieces near blade. Never use your hands to move cut-off pieces away from blade while saw is running.

TABLE SAW ACCESSORIES. Using rip fence or miter gauge while using sled increases risk of kickback. Do not use rip fence, miter gauge, or dado blades while using sled.

DADO & RABBETING OPERATIONS. DO NOT attempt dado or rabbeting operations with sled.

WORKPIECE. ALWAYS securely clamp workpiece to sled and make sure all fasteners and lock knobs are tight before starting saw. Make sure workpiece is in stable position against sled base and fence during cutting operation, and that workpiece is secured with hold-down clamp. Never start saw with workpiece touching blade.

CUTTING CORRECT MATERIAL. Cutting metal, glass, stone, tile, etc., increases risk of operator injury due to kickback of flying particles. Only cut natural and man-made wood products, laminate-covered wood products, and some plastics. Never cut materials not intended for your saw.

SPECIFICACTIONS. DO NOT use sled on table saw that does not meet the requirements included in **Specification** section of this manual. Table saws that do not meet these requirements or are adjusted incorrectly may cause an increased risk of kickback and operator injury.

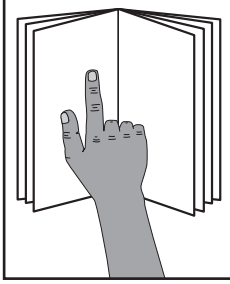
⚠WARNING

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 equipment and machinery with caution and respect. Failure to do so could result in serious personal injury, damage to equipment, or poor work results.

⚠CAUTION

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

SECTION 2: SETUP



⚠WARNING

Sled setup and use present serious injury hazards to untrained users. Read through this entire manual to become familiar with operations before beginning setup!

⚠WARNING

Wear safety glasses during entire setup process!

⚠WARNING

Proper sled setup requires cutting with a table saw. Eye injuries, respiratory problems, or hearing loss can occur while operating table saw. Wear personal protective equipment to reduce your risk from these hazards during steps that require use of table saw.

Needed for Setup

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

Description	Qty
• Safety Glasses	1
• Phillips Head Screwdriver #2	1
• Table Saw	1
• 90° Square	1

Unpacking

This equipment 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 equipment 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 equipment later.*

Inventory

The following is a list of items shipped with your sled. 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.

Loose Inventory (Figure 1)	Qty
A. Flip Stop	1
B. Fence	1
C. Miter Bar	1
D. Sled	1
E. Hold-Down Clamp	1
F. Protective Strips	3
G. Flat Head Screwdriver 1/8"	1
H. Hex Wrench 4mm	1
I. Fence Face	1

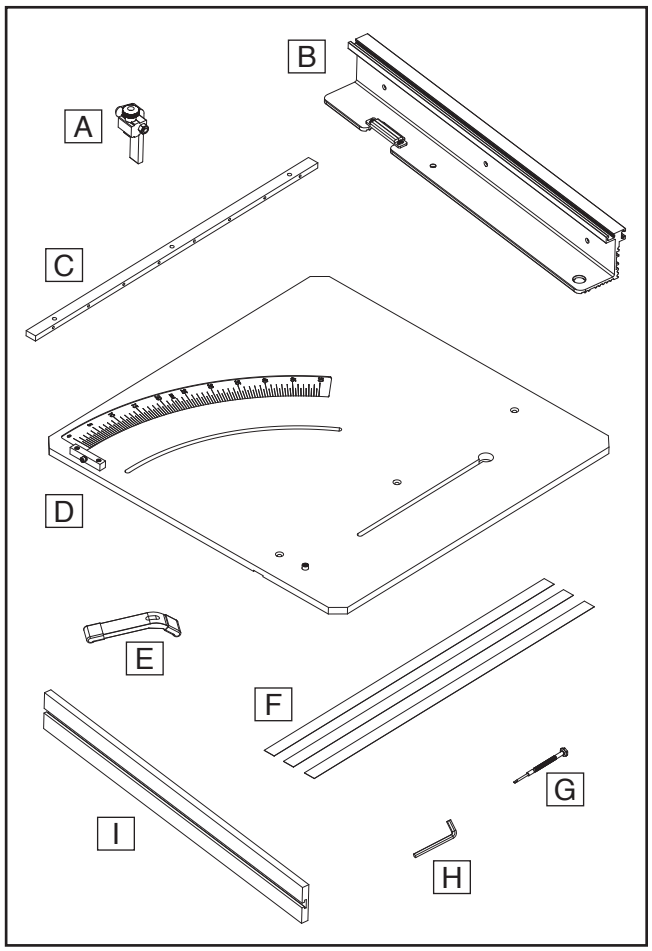


Figure 1. Loose inventory.

Fasteners (Figure 2)	Qty
J. Knob Bolt 5/16"-18 x 5/8"	1
K. Knobs 5/16"-18	2
L. Round Knobs 5/16"-18	3
M. Spacer	1
N. Flat Washer 5/16"	1
O. T-Bolts 5/16"-18 x 1	3
P. T-Bolt 5/16"-18 x 1 1/2"	1
Q. T-Bolt 5/16"-18 x 3 1/2"	1
R. Flat Head Screws 1/4"-20 x 3/4"	3
S. Slotted Set Screws 10-32 x 5/8"	8

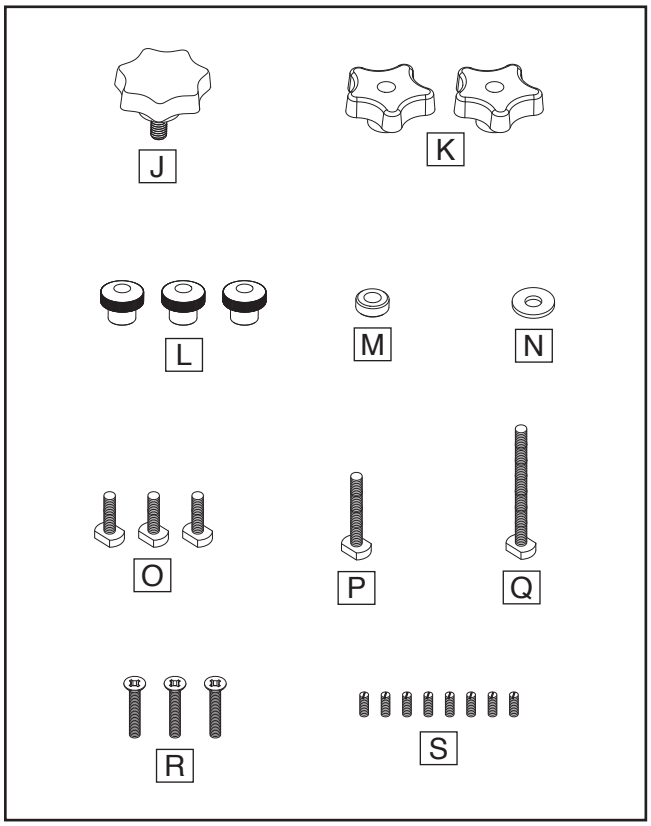


Figure 2. Fasteners.

NOTICE

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

Assembly

The sled must be fully assembled before it can be used. Before beginning the assembly process, refer to **Needed for Setup** and gather all listed items.

To assemble sled:

1. DISCONNECT TABLE SAW FROM POWER!

2. Remove existing miter gauge and fence.

3. Remove backing from (3) protective strips and affix them to underside of sled at locations shown in **Figure 3**.

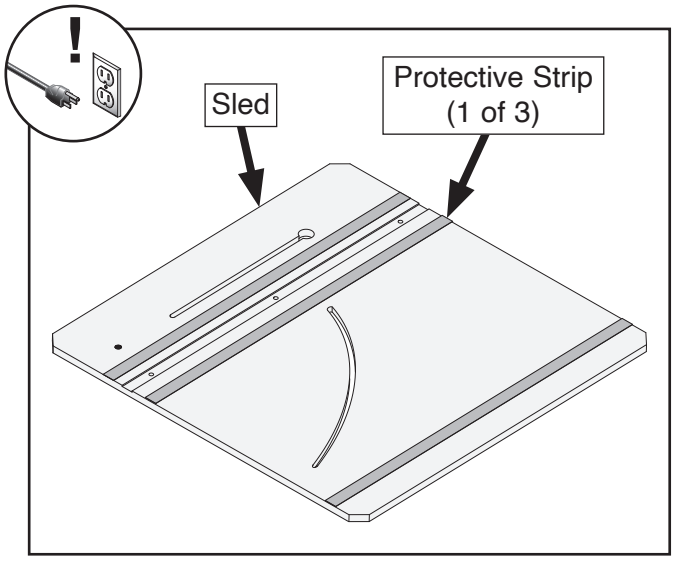


Figure 3. Protective strips affixed to sled.

4. Thread (8) 10-32 x 5/8" slotted set screws into miter bar (see **Figure 4**).

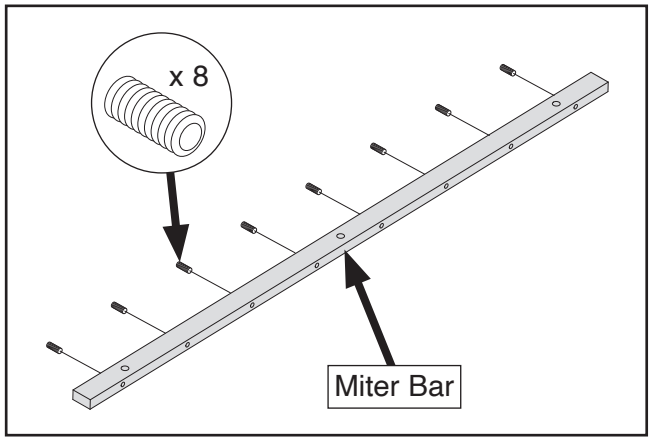


Figure 4. Installing slotted set screws into miter bar.

5. Attach miter bar to sled with (3) 1/4"-20 x 3/4" flat head screws (see **Figure 5**).

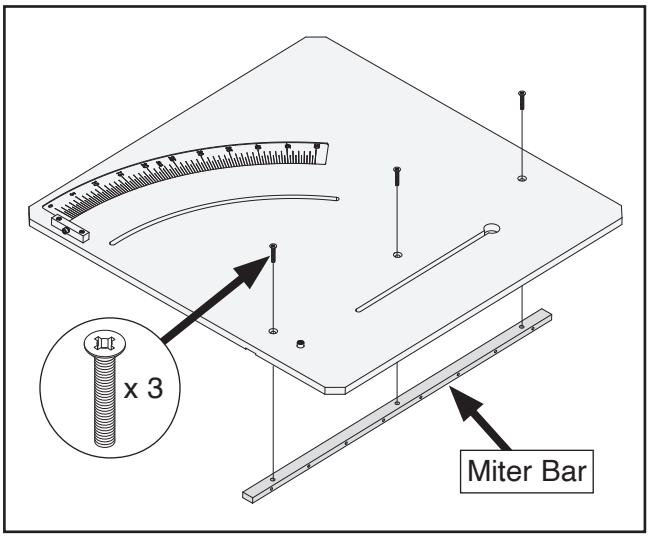


Figure 5. Attaching miter bar to sled.

6. Insert (3) 5/16"-18 x 1" T-bolts into fence face slot, as shown in **Figure 6**.

7. Align bolts with holes in fence, then attach fence face to fence by loosely threading (3) 5/16"-18 round knobs onto bolts (see **Figure 6**).

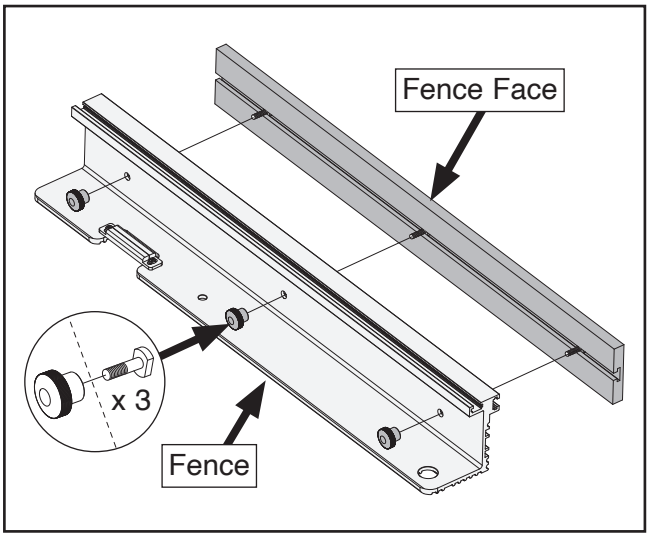


Figure 6. Attaching fence face to fence.

8. Align fence face with edges of fence so face does not extend past fence on either side (see **Figure 7**), then tighten knobs from **Step 7** to secure.

9. Place spacer into fence hole shown in **Figure 7**, then place fence hole over threaded insert in sled and secure with 5/16"-18 x 5/8" knob bolt.

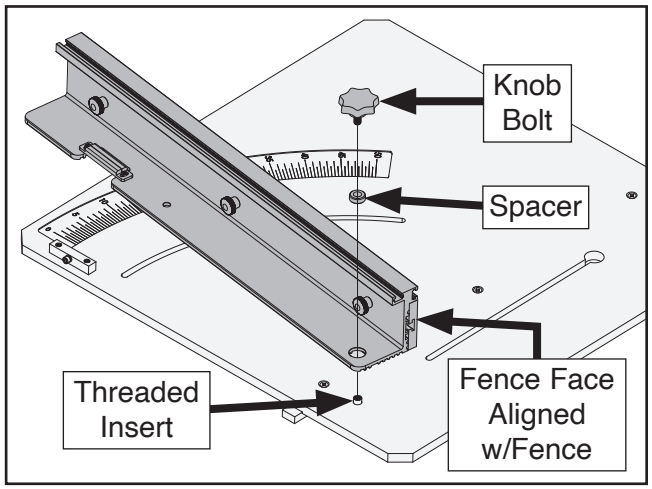


Figure 7. Attaching pivot point of fence to sled.

10. Insert 5/16"-18 x 1½" T-bolt up through curved angle slot in sled and hole in fence, then secure fence to sled by loosely threading 5/16"-18 knob onto bolt (see **Figure 8**).

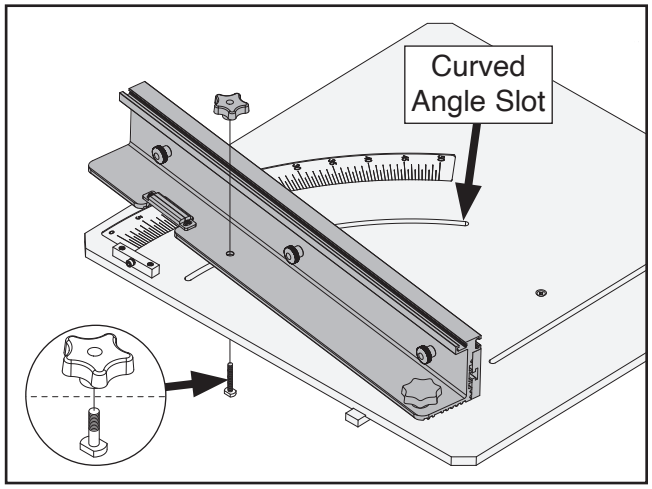


Figure 8. Securing fence to sled.

11. Refer to owner's manual of table saw to confirm saw blade is parallel to miter slot and blade is 90° to table.

12. Completely lower table saw blade so it is hidden under table and remove blade guard.

13. Place sled miter bar in table saw miter slot to left of blade (see **Figure 9**) to check how miter bar moves through slot.

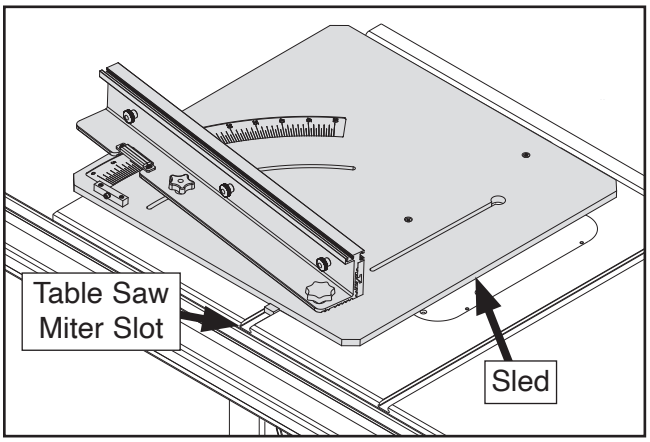


Figure 9. Sled miter bar in left table saw miter slot.

14. Adjust (8) slotted set screws in **Step 4** until miter bar will move snugly and smoothly through miter slot, without wobbling side-to-side.

15. Slide sled backward in table saw T-slot until blade opening is clear (see **Figure 10**).

16. Raise table saw blade all the way (see **Figure 10**).

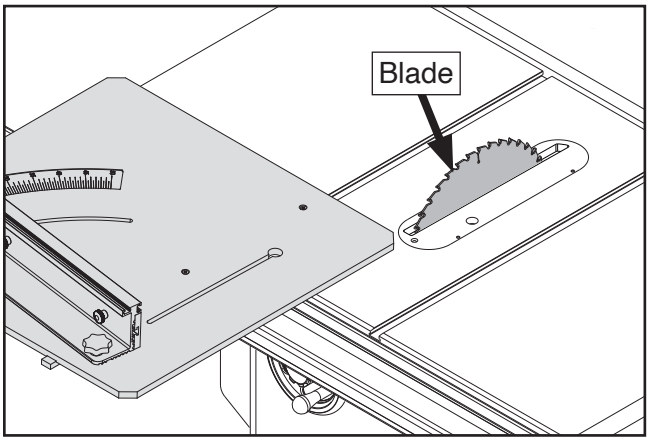


Figure 10. Checking blade clearance.

17. Push sled toward rear of table saw in miter slot.

— If sled contacts blade, proceed to **Step 18**. You will need to cut edge of sled to create blade clearance.

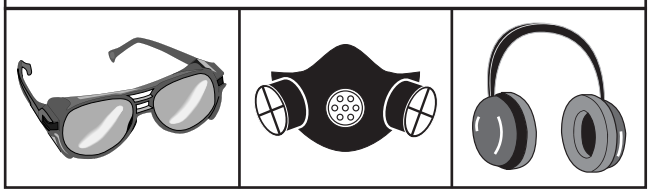
— If sled can move through entire miter slot without contacting blade, install blade guard, then proceed to **Step 24**.

18. Slide sled backward in table saw T-slot until it is not contacting blade, lower blade so it extends about ¼" above sled base, then install blade guard.

19. Check outfeed side of machine for proper support and make sure sled can safely pass all the way through blade without interference.

⚠WARNING

Some of table saw setups require cutting with table saw. Eye injuries, respiratory problems, or hearing loss can occur while operating table saw. Wear personal protective equipment to reduce your risk from these hazards during steps that require use of table saw.



20. Connect table saw to power and turn saw ***ON***.

21. Feed sled forward all the way through blade while maintaining firm forward and downward pressure on sled to cut extra material from sled base (see **Figure 11**).

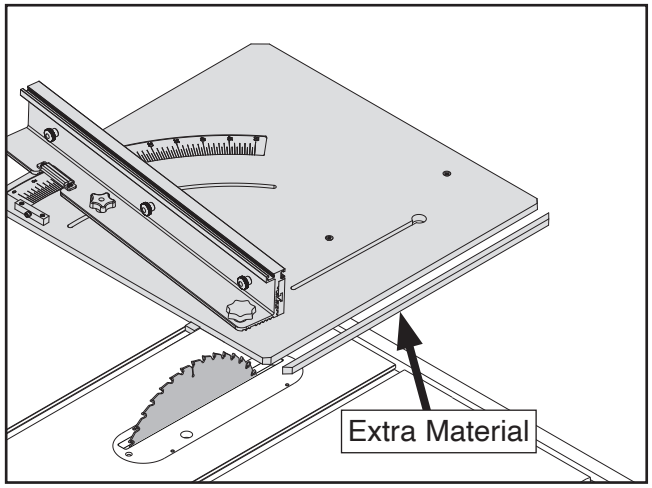


Figure 11. Extra material cut from sled base (blade guard removed for clarity).

22. Turn ***OFF*** table saw, allow blade to come to a complete stop, and DISCONNECT MACHINE FROM POWER.

23. Discard extra material cut-off piece.

24. Slide sled back to starting position, then advance it in slot so fence is next to blade.

25. Loosen fence angle knobs shown in **Figure 12**, then place 90° square against blade body and sled fence (see **Figure 13**).

— If fence stop cap screw shown in **Figure 12** prevents this, loosen screw to move it out of the way.

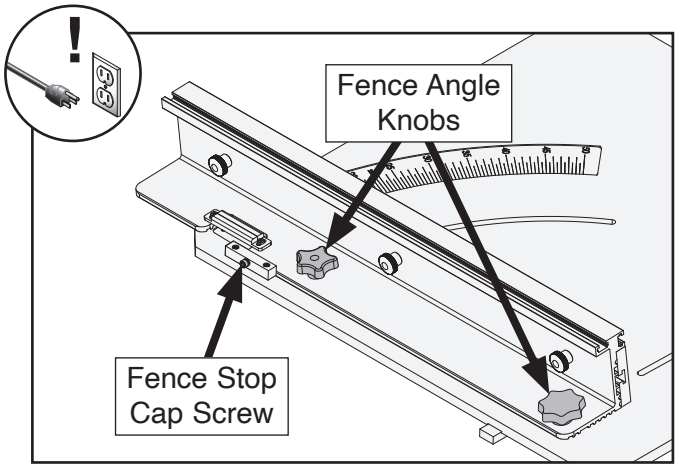


Figure 12. Location of fence knobs and fence stop cap screw.

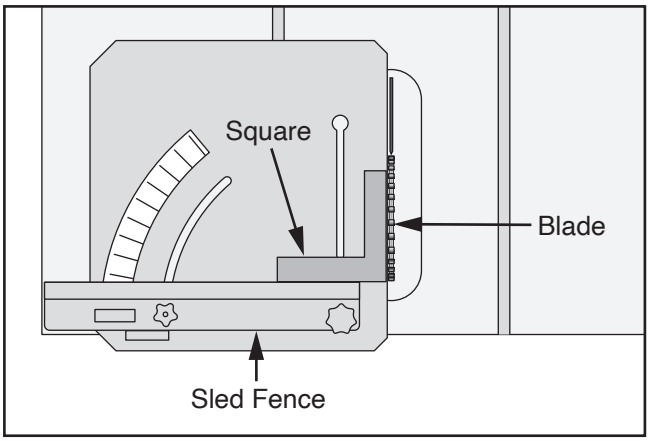


Figure 13. 90° square against blade and sled fence (blade guard removed for clarity).

26. When sled fence is square to blade, tighten fence angle knobs to secure.

27. Tighten fence stop cap screw (see **Figure 12** on **Page 10**) until it contacts fence.

28. Check fence angle indicator shown in **Figure 14**.

— If indicator lines up with 0°, no adjustment is necessary. Proceed to **Step 30**.

— If indicator *does not* line up with 0°, proceed to **Step 29**.

29. Loosen (2) screws shown in **Figure 14**, adjust indicator to 0°, then tighten screws to secure.

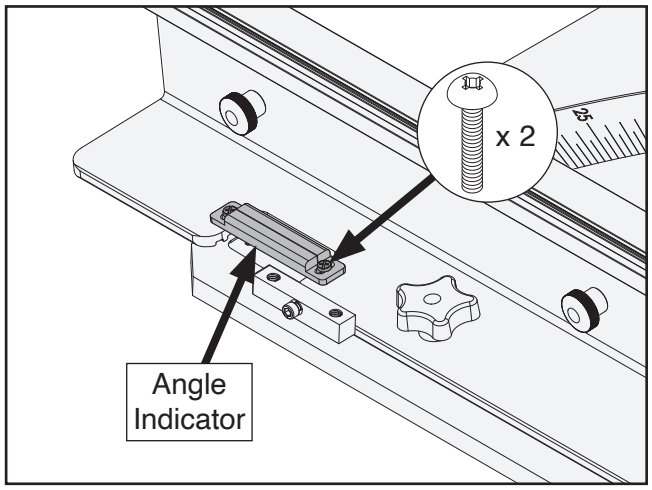


Figure 14. Location of angle indicator and screws.

30. Insert 5/16"-18 x 3½" T-bolt up through straight clamp slot, place hold-down clamp and 5/16" flat washer on bolt, then secure by loosely threading 5/16"-18 knob onto bolt (see **Figure 15**).

31. Insert flip stop T-bolt into top fence T-slot, then tighten knob to secure (see **Figure 15**).

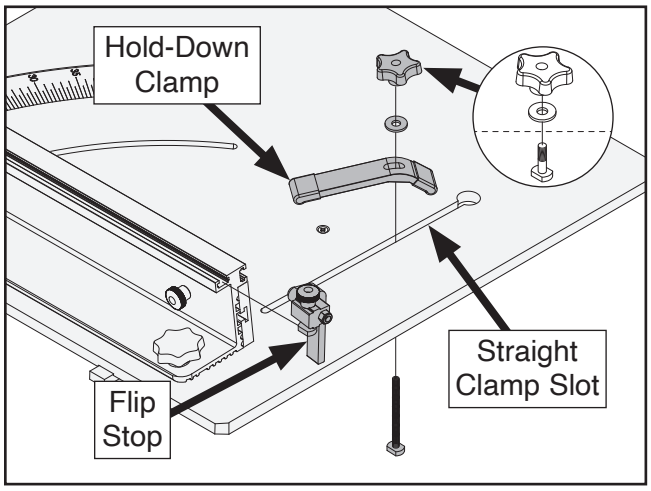
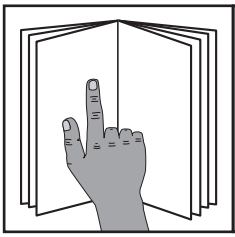


Figure 15. Installing hold-down clamp and flip stop.

SECTION 3: OPERATIONS



⚠WARNING

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

⚠WARNING

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

⚠WARNING

Kickback is often defined as the high-speed expulsion of stock from table saw toward its operator. In addition to the danger of operator or others in area being struck by flying stock, kickback can also pull operator's hands into blade. Always use hold-down clamp to secure workpiece to sled to prevent these risks.

NOTICE

If you are not experienced with this type of equipment, 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.

Adjusting Fence

Use the following steps to adjust the fence angle using the inlaid angle scale, then adjust the fence face position to provide the utmost support for your workpiece to minimize tearout.

Adjusting Fence Angle

1. DISCONNECT TABLE SAW FROM POWER!

2. Loosen (2) fence angle knobs (see **Figure 16**).

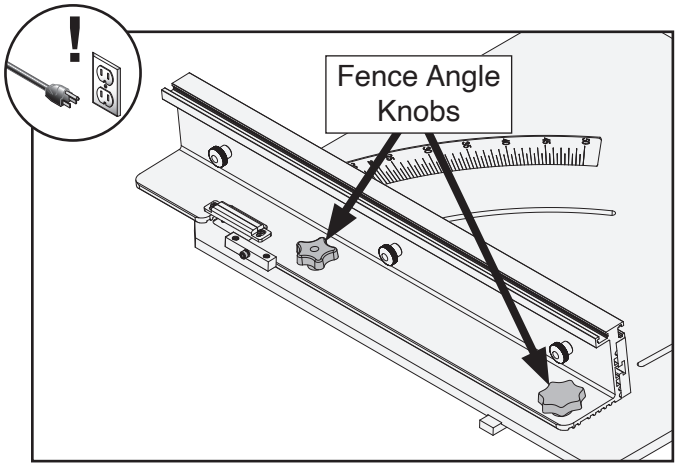


Figure 16. Location of fence angle knobs.

3. Adjust fence until angle indicator aligns with desired angle on scale (see **Figure 17**), then tighten fence angle knobs to secure setting.

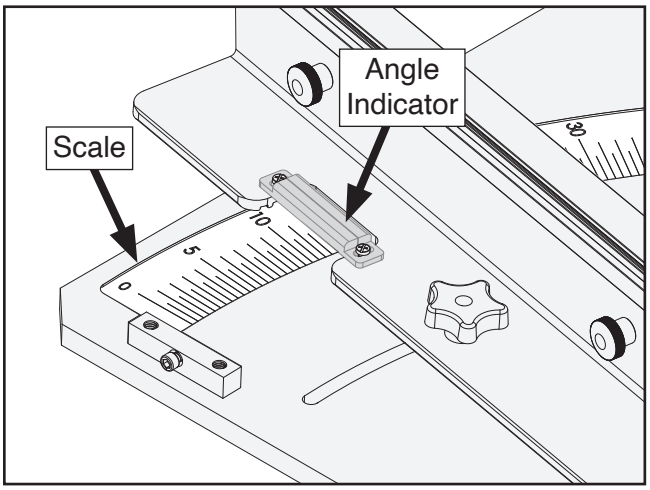


Figure 17. Location of angle indicator and scale.

Adjusting Fence Face Position

1. Loosen (3) fence face knobs (see **Figure 18**).

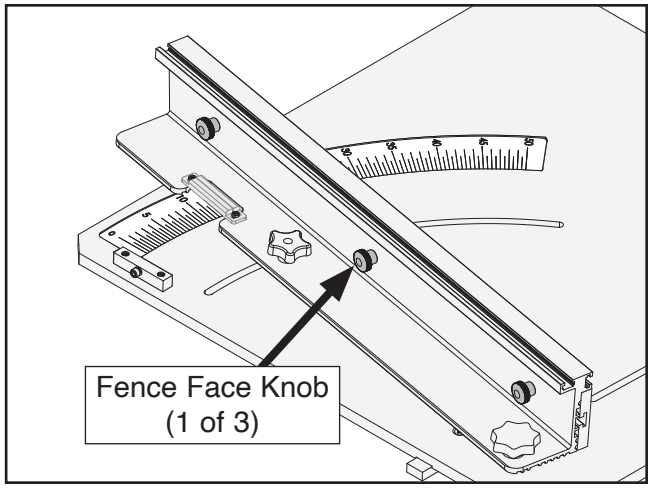


Figure 18. Location of fence face knobs.

2. Adjust fence face in fence so fence face extends as close to cut line as possible without contacting blade (see **Figure 19**), then tighten fence face knobs to secure setting.

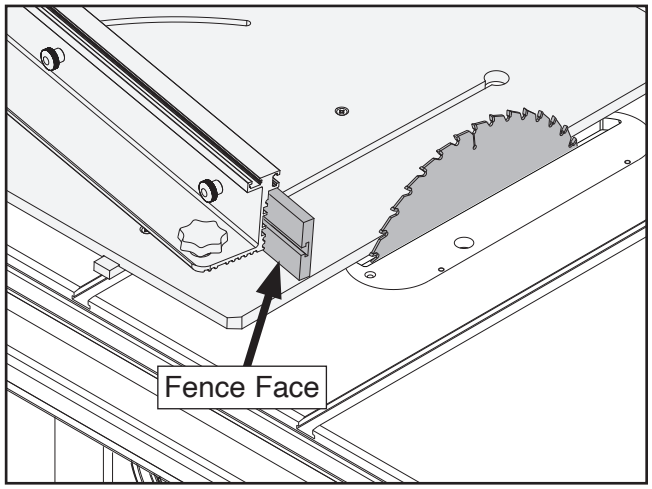


Figure 19. Fence face extended out of fence to provide workpiece support (blade guard removed for clarity).

3. Push sled forward in table saw miter slot to confirm fence face will not contact blade before performing operation.

Adjusting Flip Stop

The Model T33988 is equipped with a flip stop for repetitive cutting operations.

To adjust the flip stop position, loosen the flip stop knob, move the stop so the arm is against the edge of the workpiece (see **Figure 20**), then tighten the knob to secure.

The flip stop is set up in the top fence T-slot (for use with the existing fence face) or it can be configured for use in the T-slot at the front of the fence (for use with a ¾" deep sacrificial fence) (see **Figure 20**).

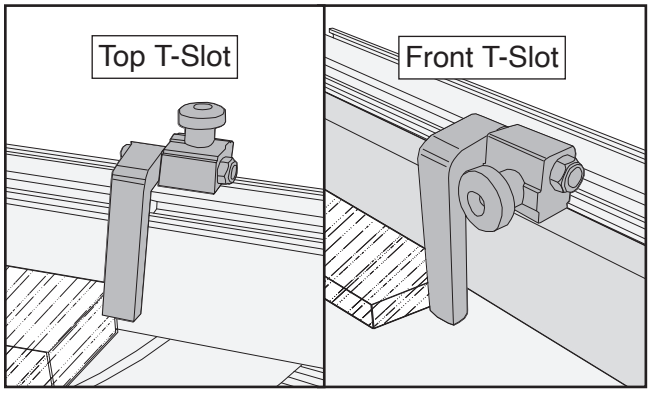


Figure 20. Flip stop adjusted to edge of workpiece.

Installing Flip Stop in Front T-Slot

1. Remove flip stop knob and T-bolt, rotate flip stop body, then re-install knob and T-bolt (see **Figure 21**).

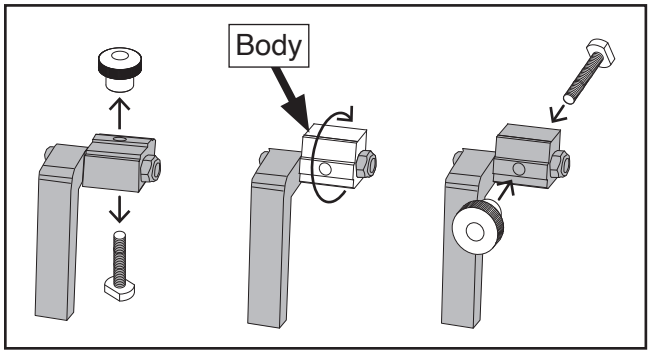


Figure 21. Configuring flip stop for front T-slot.

2. Insert flip stop T-bolt into front fence T-slot, then tighten knob to secure (see **Figure 20**).

Cutting with Sled

Use the following steps to complete a basic cut using the Model T33988.

To cut with sled:

1. Position sled at front of table saw in start position.

2. Adjust sled fence to desired angle.

3. Adjust fence face in fence so fence face extends to cut line without contacting blade (see **Figure 22**).

4. Place workpiece on sled against fence and align cut line with blade kerf, then secure workpiece with hold-down (see **Figure 22**).

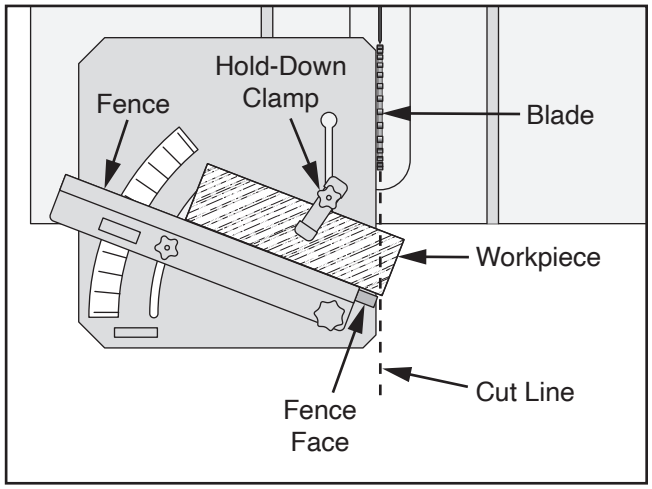


Figure 22. Workpiece prepared for cut (blade guard removed for clarity).

⚠WARNING

If workpiece is not large enough to be secured with hold-down clamp, use different hold-down method or DO NOT cut workpiece on sled. If kickback occurs, hold-down clamp will prevent or slow down kickback.

5. For repetitive cutting operations, adjust flip stop to workpiece edge.

6. Adjust blade height to no more than ¼" higher than workpiece.

7. Check outfeed side of machine for proper support and to make sure sled and workpiece can safely pass all the way through blade without interference.

8. Put on safety glasses, respirator, and hearing protection.

9. Start dust collection system, then start saw.

10. Maintaining firm downward pressure on sled against table, feed workpiece all the way through blade, keeping hands and fingers away from blade (see **Figure 23**).

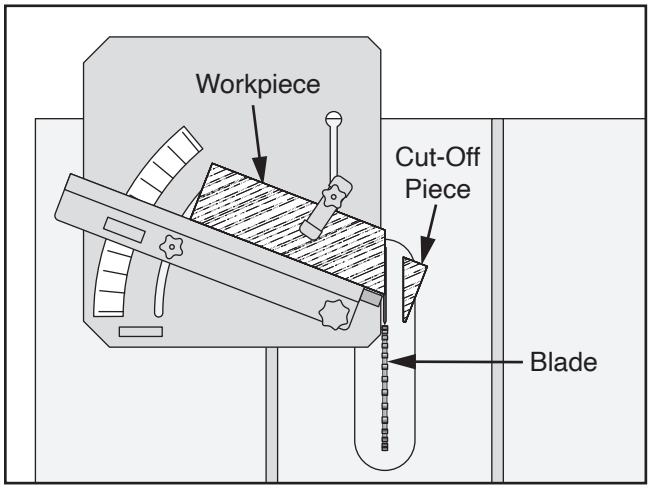


Figure 23. Completed cut.

11. Turn ***OFF*** saw and allow blade to come to complete stop before removing cut-off piece or bringing sled back to start position.

SECTION 4: 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.

T32428—37" Bear Roll Outfeed System

This unique roller system folds down easily without tools and snaps up in place quickly when needed. Safely support large sleds and workpieces all by yourself. The advanced outfeed design allows for straight, level feeding and significantly reduces the possibility of kickback, binding, and blade jams.

Figure 24. T32428 37" Bear Roll Outfeed System.

T33987—Small Item Sled

The T33987 Small Item Sled allows you to cut workpieces less than 1" thick and 5½" wide. Table saw miter slot must be ¾" wide and ⅜" deep, there must be at least 2½" between blade and miter slot, and there must be at least 11½" between blade arbor and rear table edge.

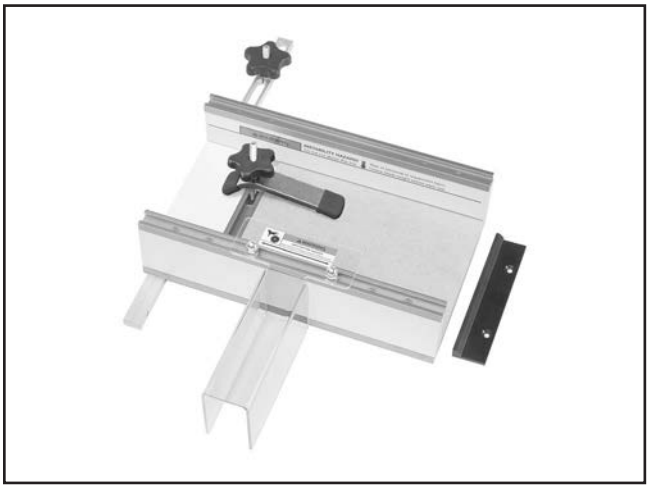


Figure 25. T33987 Small Item Sled.

T33989—Taper/Straight Line Jig

The T33989 Taper/Straight Line Jig cuts 0–12 degree tapers on table saws with ¾" wide and ⅜" deep miter slots. It has an aluminum miter bar, a laminated MDF fence and base, and indexing marks and scales for setting your angle exactly.

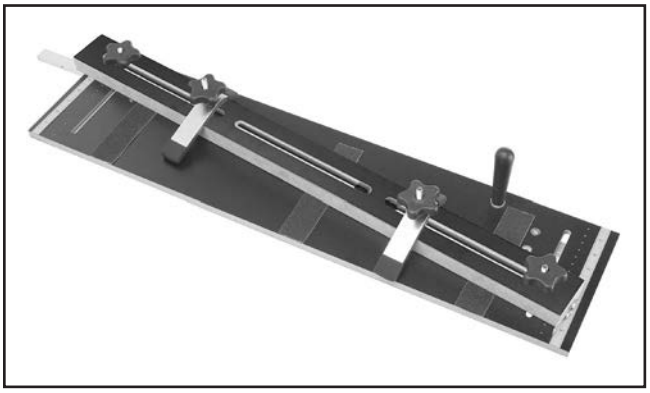
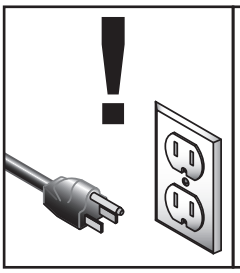


Figure 26. T33989 Taper/Straight Line Jig.

SECTION 5: MAINTENANCE



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

Schedule

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

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

- Loose fasteners.
- Dirty miter bar or table saw miter slot.
- Any other unsafe condition.

Cleaning & Protecting

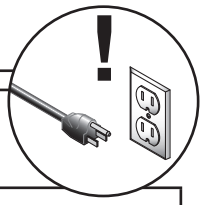
Cleaning the Model T33988 is relatively easy. After use, vacuum excess wood chips and sawdust, and wipe off the remaining dust with a dry cloth. If any resin has built up, use a resin dissolving cleaner to remove it.

Be sure to dry or clean any water, oil, or chemical solvents that come in contact with sled. These may eat away at or warp the sled.

SECTION 6: SERVICE

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

Troubleshooting



Operations

Symptom	Possible Cause	Possible Solution
Sled does not move smoothly.	1. Miter bar/table saw miter slot or table is dirty or sticky. 2. Miter bar set screws are not adjusted correctly. 3. Bent miter bar; burrs on bar/in table saw miter slot.	1. Clean miter bar/table saw miter slot or table. 2. Adjust miter bar set screws so bar fits snugly in table saw miter slot. 3. Straighten/replace bar; deburr bar or slot.
Burn marks on workpiece.	1. Feed rate too slow or inconsistent.	1. Increase feed rate and apply consistent pressure through entire cut.
Kickback occurs.	1. Sled not held firmly against table. 2. Using crosscut sled and rip fence at the same time.	1. Hold sled firmly against table to prevent miter bar lifting out of miter slot. 2. Never use crosscut sled and rip fence together. Always use one or the other.
Will not make accurate cuts.	1. Angle indicator not calibrated correctly to angle scale.	1. Calibrate indicator to angle scale (see **Page 18**).

Calibrating Angle Scale

Calibrate the angle scale if the angle of the cut workpiece does not match the angle shown with the angle indicator.

Items Needed	Qty
90° Square	1
Phillips Head Screwdriver #2	1

To calibrate angle scale:

1. DISCONNECT TABLE SAW FROM POWER!

2. Place sled in starting position on table saw.

3. Loosen fence angle knobs shown in **Figure 27**, then place 90° square against blade body and sled fence (see **Figure 28**).

— If fence stop cap screw shown in **Figure 27** prevents this, loosen screw to move it out of the way.

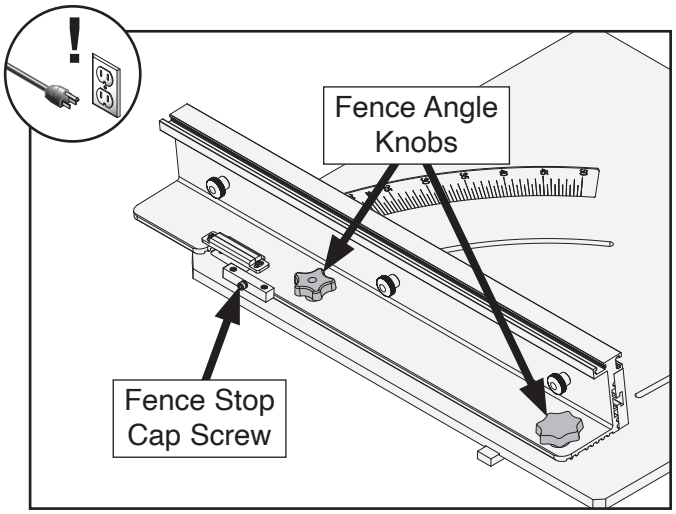


Figure 27. Location of fence knobs and fence stop cap screw.

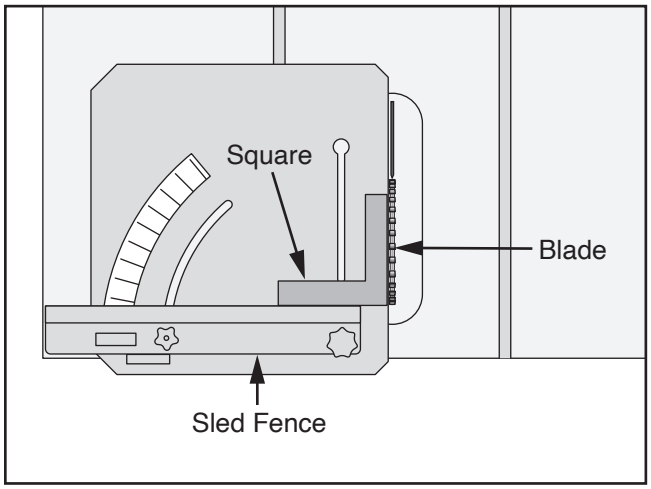


Figure 28. 90° square against blade and sled fence (blade guard removed for clarity).

4. When sled fence is square to blade, tighten fence angle knobs to secure.

5. Tighten fence stop cap screw (see **Figure 27**) until it contacts fence.

6. Loosen (2) screws shown in **Figure 29**, adjust indicator to 0°, then tighten screws to secure.

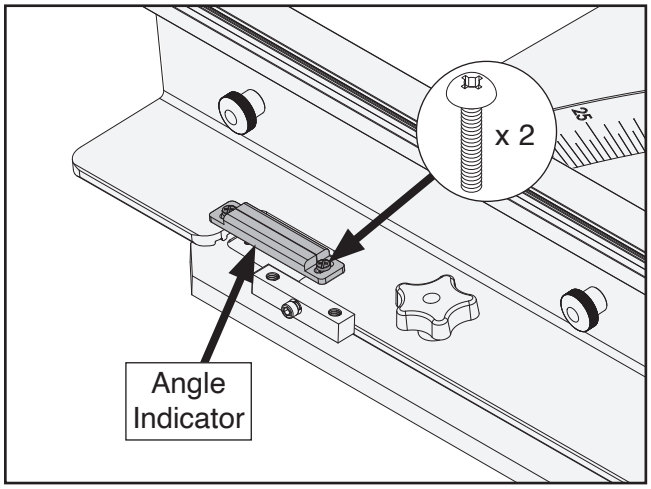
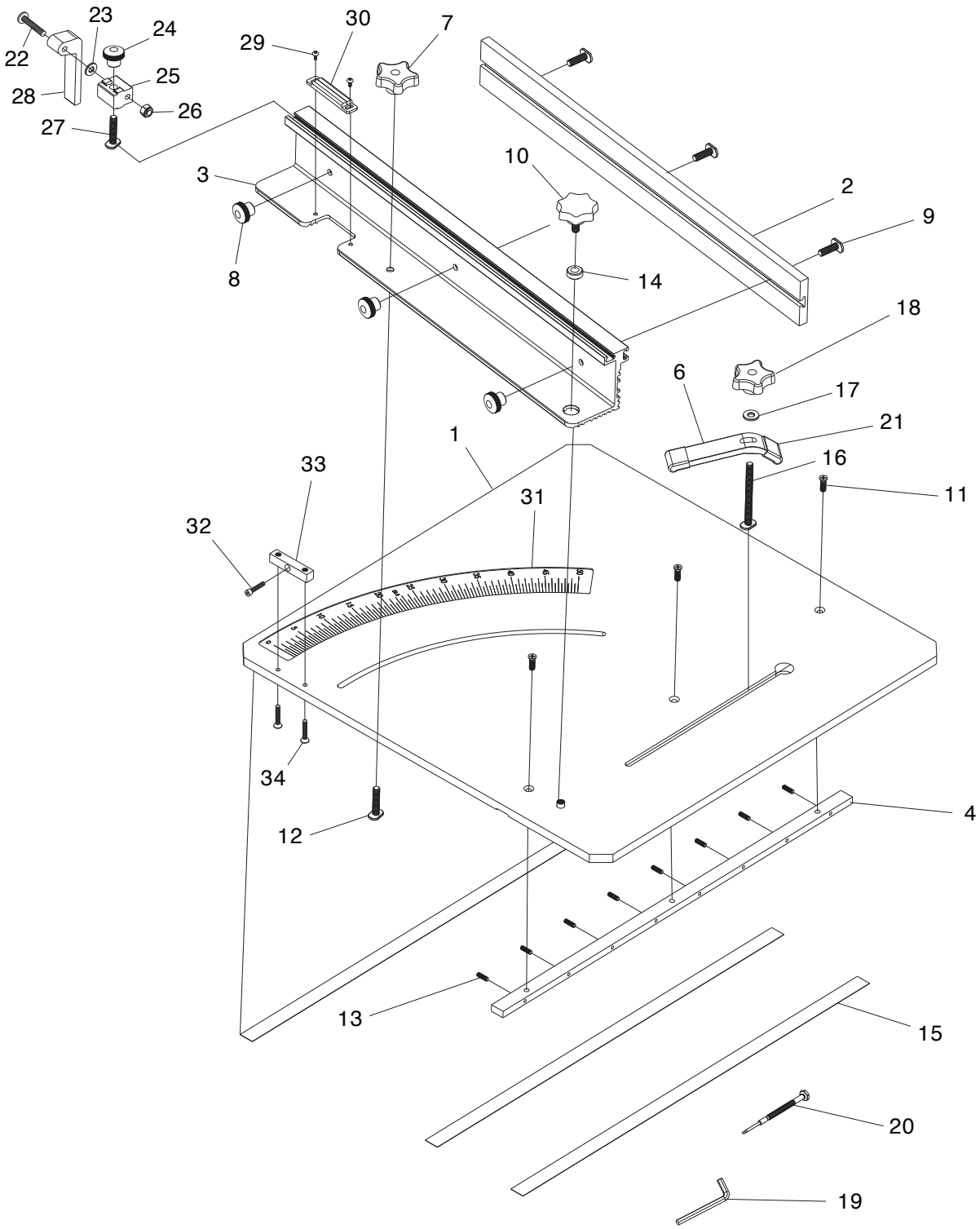


Figure 29. Location of angle indicator and screws.

SECTION 7: PARTS

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

Main



Main Parts List

REF	PART #	DESCRIPTION
1	PT33988001	SLED BODY
2	PT33988002	FENCE FACE
3	PT33988003	FENCE
4	PT33988004	MITER BAR
6	PT33988006	HOLD-DOWN CLAMP
7	PT33988007	KNOB 5/16-18, 5-LOBE, D2
8	PT33988008	KNOB 5/16-18, D1, ROUND KD
9	PT33988009	T-BOLT 5/16-18 X 1
10	PT33988010	KNOB BOLT 5/16-18 X 5/8, 7-LOBE, D2
11	PT33988011	FLAT HD SCR 1/4-20 X 3/4
12	PT33988012	T-BOLT 5/16-18 X 1-1/2
13	PT33988013	SET SCREW 10-32 X 5/8 SLOTTED NYLON
14	PT33988014	SPACER 10 X 19.2 X 5.8MM
15	PT33988015	PROTECTIVE STRIP
16	PT33988016	T-BOLT 5/16-18 X 3-1/2
17	PT33988017	FLAT WASHER 5/16"
18	PT33988018	KNOB 5/16-18, 5-LOBE, D2

REF	PART #	DESCRIPTION
19	PT33988019	HEX WRENCH 4MM
20	PT33988020	SCREWDRIVER FLAT 1/8
21	PT33988021	CLAMP GRIP
22	PT33988022	SHOULDER SCREW 5/16-18 X 1-3/8, 5/16 X 1
23	PT33988023	SPACER 8 X 15 X 1MM
24	PT33988024	KNOB 5/16-18, D1, ROUND KD
25	PT33988025	FLIP STOP BODY
26	PT33988026	LOCK NUT 5/16-18
27	PT33988027	T-BOLT 5/16-18 X 1-1/2
28	PT33988028	FLIP STOP ARM
29	PT33988029	PHLP HD SCR M4-.7 X 5
30	PT33988030	ANGLE INDICATOR
31	PT33988031	ANGLE SCALE
32	PT33988032	CAP SCREW M5-.8 X 16
33	PT33988033	ANGLE CALIBRATION BLOCK
34	PT33988034	FLAT HD SCR M6-1 X 18

WARRANTY & RETURNS

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

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

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

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

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

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

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

WARRANTY

grizzly.com