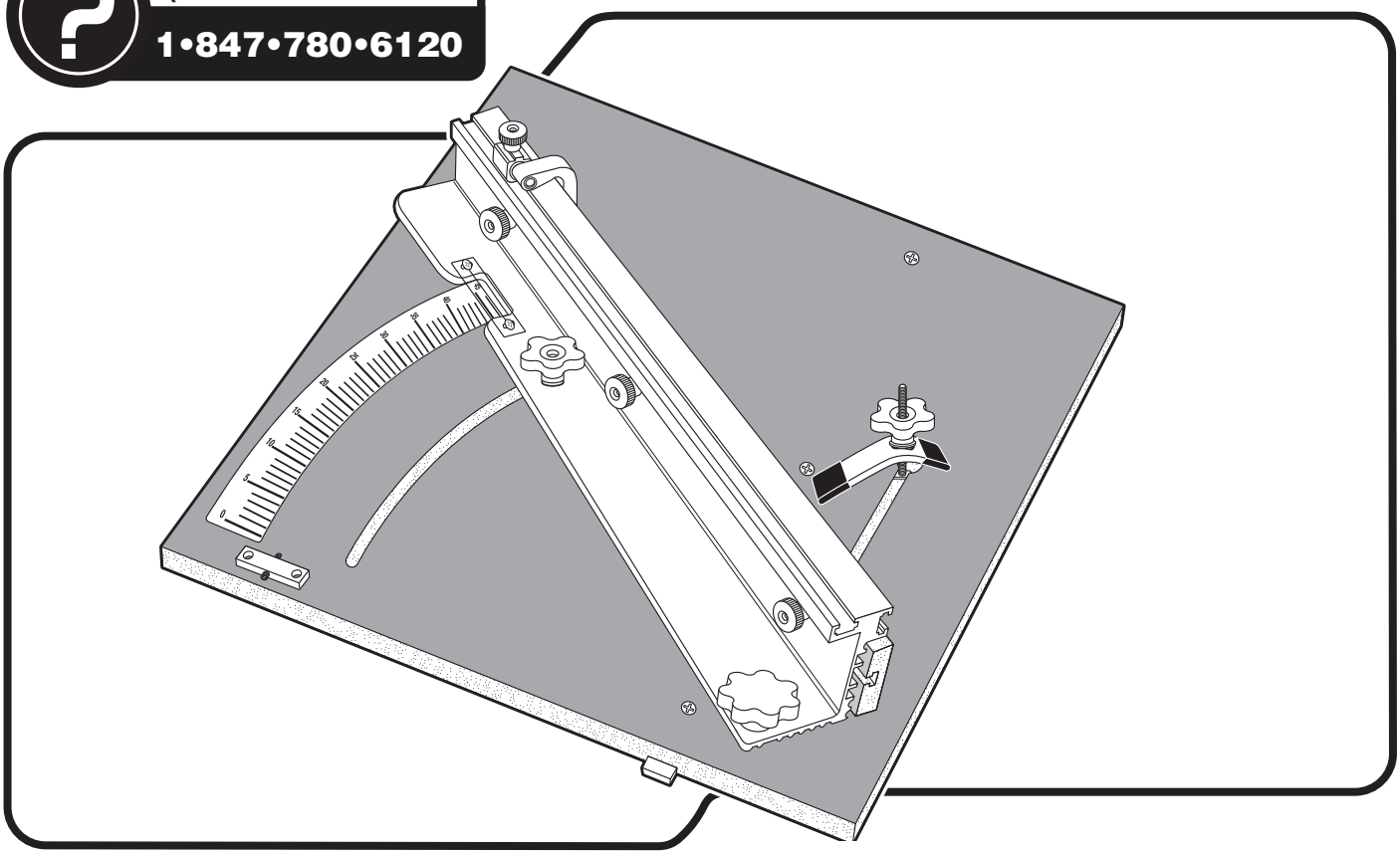
Model No. 71403

Owner's Manual

POWERTEC®

Table Saw Crosscut Sled

QUESTION...
1•847•780•6120



Visit us on the web at **powertecproducts.com**

You will need this manual for safety instructions, operating procedures, and warranty. Put it and the original sales invoice in a safe, dry place for future reference.

TABLE OF CONTENTS

SECTION	PAGE
SAFETY RULES	1
ASSEMBLY	3
Assembly	
Set-Up	
OPERATION	7
Use	
MAINTENANCE	8
General Maintenance	
WARRANTY	9

PRODUCT SPECIFICATIONS

Base	23-13/16" x 23-13/16" x .488"
MDF fence face	24-3/8" x 2-9/16" x .488"
Fence	24" x 3-3/8" x 2-7/8"
Miter bar – aluminum	24" x 3/4" x 3/8"

SAFETY RULES

⚠WARNING

For your own safety, read all of the rules and precautions before operating tool.

⚠WARNING

Always follow proper operating procedures as defined in this manual even if you are familiar with use of this table saw crosscut sled or any tool used with this table saw crosscut sled. Remember that being careless for even a fraction of a second can result in severe personal injury.

Before using another tool with this product, always read, understand and follow the instructions and safety warnings in the owner's manual for that tool. If you do not have the owner's manual, obtain one from the tool's manufacturer before using it with this product.

You must be familiar with the use of any tool or accessory used with this table saw crosscut sled. The supplier cannot be held responsible for any accident, injury or damage incurred while using this table saw crosscut sled with any tool.

It is the responsibility of the purchaser of this product to ensure that any person using this product reads and complies with all instructions and safety precautions outlined in this manual and the operating manual of the tool being used prior to use.

⚠WARNING

Some dust created by operation of power tool contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. To reduce your exposure to these chemicals, work in a well ventilated area and work with approved safety equipment. Always wear OSHA/NIOSH approved, properly fitting face mask or respirator when using such tools.

⚠CAUTION

Do not modify or use this table saw crosscut sled for any application other than that for which it was designed.

FOLLOW ALL STANDARD SHOP SAFETY PRECAUTIONS, INCLUDING:

- Keep children and visitors at a safe distance from work area.
- Keep work area clean. Cluttered work areas invite accidents. Work area should be properly lit.
- Do not use power tools in dangerous environments. Do not use power tools in damp or wet locations. Do not expose power tools to rain.
- TURN OFF AND UNPLUG all power tools BEFORE making any adjustments or changing accessories.
- Be alert and think clearly. Never operate power tools when tired, intoxicated or when taking medications that cause drowsiness.
- Wear proper apparel. Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry which may get caught in moving parts of the tool.
- Wear protective hair covering to contain long hair.
- Wear safety shoes with non-slip soles.
- Wear safety glasses complying with United States ANSI Z87.1. Everyday glasses have only impact resistant lenses. They are NOT safety glasses.
- Wear face mask or dust mask if operation is dusty.
- A guard or any other part that is damaged should be properly repaired or replaced. Do not perform makeshift repairs.
- Use safety equipment such as featherboards, push sticks and push blocks, etc., when appropriate.
- Maintain proper footing at all times and do not overreach.
- Do not force woodworking tools.

⚠CAUTION

Think safety! Safety is a combination of operator common sense and alertness at all times when tool is being used.

⚠WARNING

Do not use the table saw crosscut sled until it is completely assembled and you have read and understood this entire operating manual and the operating manual of the tool being used with this table saw crosscut sled.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

2 SPECIFIC SAFETY WARNINGS

⚠DANGER

- To avoid serious injury, keep hands out of the path of the spinning blade. Maintain awareness of the blade at all times.
- Always turn off and unplug the saw when making any adjustments

⚠WARNING

- **The table saw crosscut sled is intended for use only on cabinet and full-size contractor-grade table saws with a standard 3/8"D x 3/4"W miter slot.** It is NOT intended for use on portable saws.
- The distance between the blade and miter track must be 4-1⁄4" or greater to ensure proper clearance between the sled fence and the blade.
- Make sure there is sufficient out-feed support and that the out-feed support does not obstruct the path of the crosscut sled's miter bar.
- DO NOT use the table saw's rip fence when using the crosscut sled.
- DO NOT use the crosscut sled with dado blades.
- The crosscut sled is not intended for making compound cuts.
- During setup, the crosscut sled is cut to fit your specific saw. Read the instructions carefully to complete this essential setup step.
- The hold-down clamp and sled fence MUST be positioned so they will NOT come into contact with saw blade.
- You MUST tighten all knobs and the hold down to secure the workpiece after making any adjustments and before making any cuts.
- Keep the saw blade as low as possible to make the cut, as defined by your table saw's instruction manual.
- The miter bar MUST be able to slide freely forward and backward without side-to-side play. NEVER attempt to force the crosscut sled if it fails to slide freely.
- Before making the actual cut, become familiar with the cutting process by practicing the motion of the cut with the blade lowered and the power turned off.
- DO NOT attempt to cut pieces that are too short to be secured to the crosscut sled with the hold-down clamp.
- STOP USING the Crosscut sled IMMEDIATELY if any component develops a crack or other sign of the loss of structural integrity.

ASSEMBLY

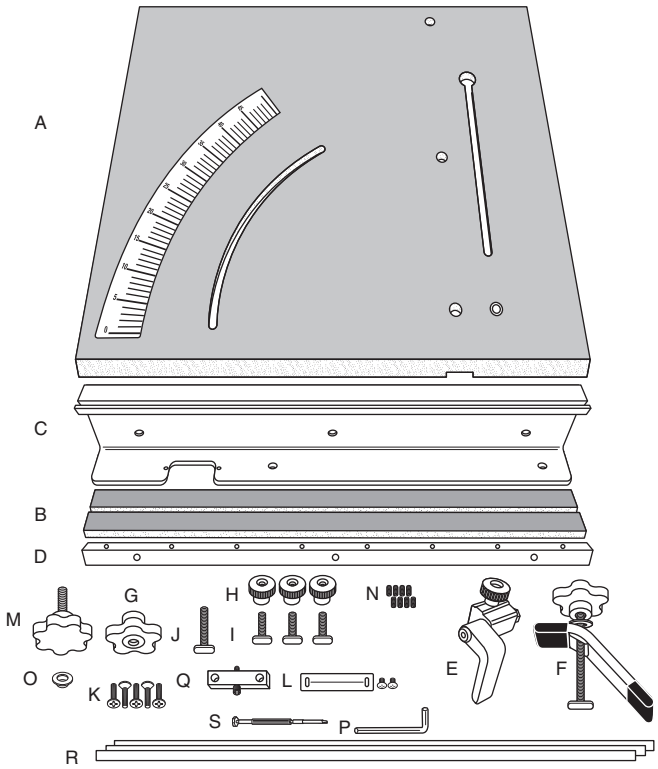
UNPACKING

Refer to Figure 1

Check for shipping damage. Check immediately whether all parts and accessories are included.

ITEM	DESCRIPTION	QTY
A	MDF sled	1
B	MDF fence face	1
C	Extruded Fence	1
D	Miter bar	1
E	3" Flip stop (Powertec 71367)	1
F	5-1/2" Hold down clamp with hardware (Powertec 71083)	1
G	Five star knob, 2" in diameter	1
H	5/16"-18 round knobs (3/4" tall)	3
I	5/16"-18 x 1" T-Bolts	3
J	5/16"-18 x 1-1/2" T-Bolts	1
K	Flat head Phillips screws 1/4"-20 x 3/4"	5
L	Cursor with two M4 x 1/4" screws	1
M	Seven star knob (2" in diameter with 5/16"-18 x 5/8" stud)	1
N	Slotted nylon adjustment screws	8
O	Nylon bushing	1
P	4 mm hex wrench	1
Q	Adjustable stop	1
R	Wear resistant strip (long)	3
S	Small screwdriver (for miter bar adjustments)	1

Figure 1



⚠WARNING

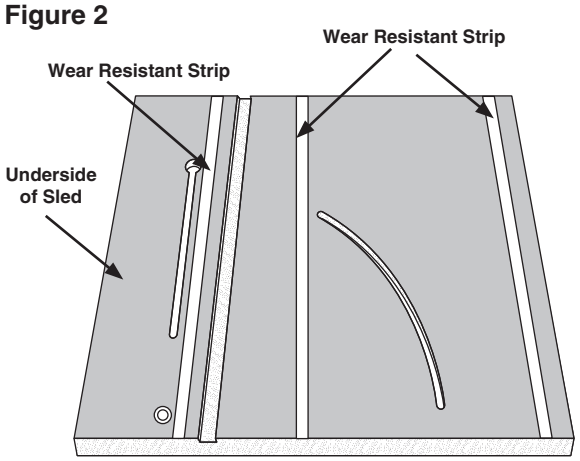
Do not use the table saw crosscut sled until it is completely assembled and you have read and understood this entire operating manual and the operating manual of the tool being used with this table saw crosscut sled.

ASSEMBLY

Refer to Figure 2–9

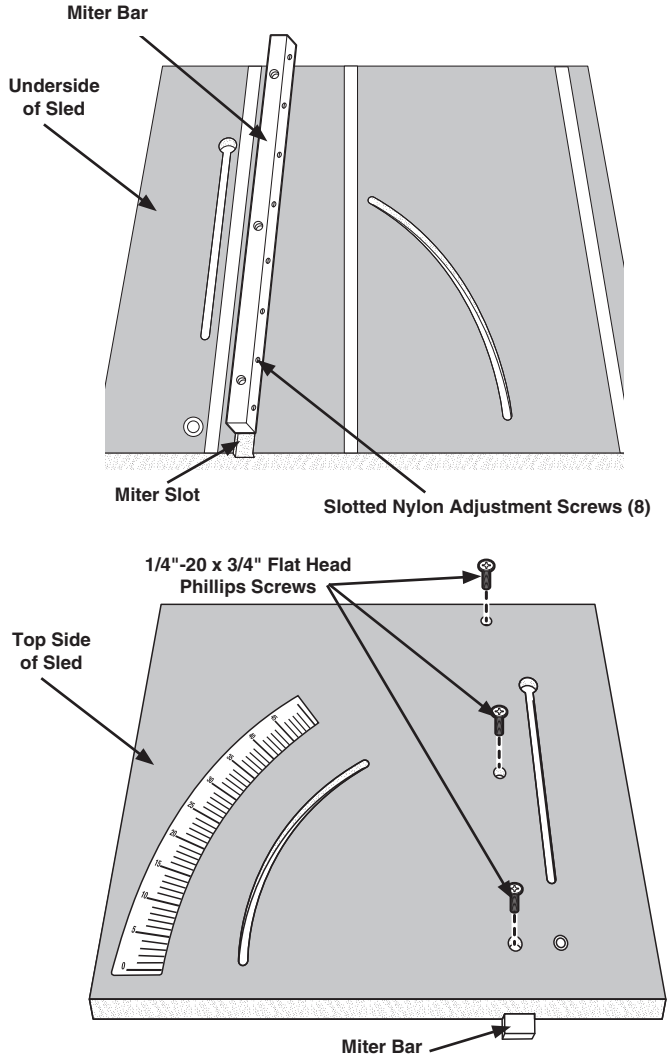
1. Apply the self-adhesive wear resistant strips to the underside of the sled. See Figure 2.

Figure 2



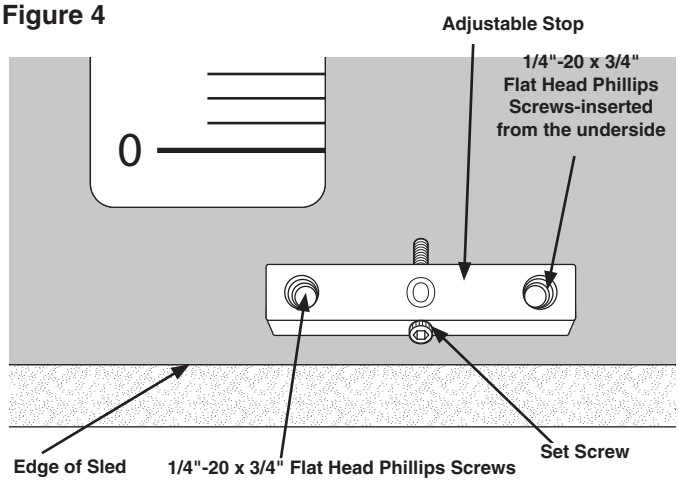
2. Assemble the eight slotted nylon adjustment screws into the 24" miter bar. Do not tighten, adjustment will be made later.
3. Place the miter bar into the slot on the underside of the sled, FROM THE TOPSIDE of the sled, insert the three 1/4"-20 x 3/4" flat head Phillips screws and tighten to attach. See Figure 3.

Figure 3



4. From the underside of the sled, insert the two 1/4"-20 x 3/4" flat head Phillips screws through th pre-drilled holes and attach the adjustable stop to the table. Make sure the set screw is positioned to the outer edge of the sled and the side marked with a ”O” is facing up. See Figure 4.

Figure 4



5. Slide three 5/16"-18 x 1" T-Bolts into the slot of the MDF fence face and insert through the extruded fence. Secure with 5/16" round knobs. See Figures 5 and 6.

Figure 5

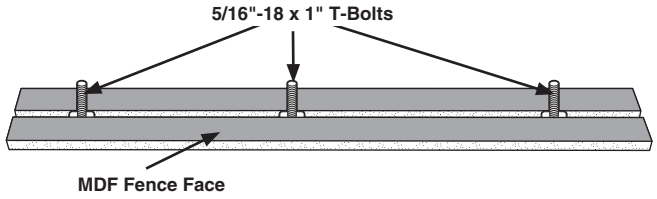
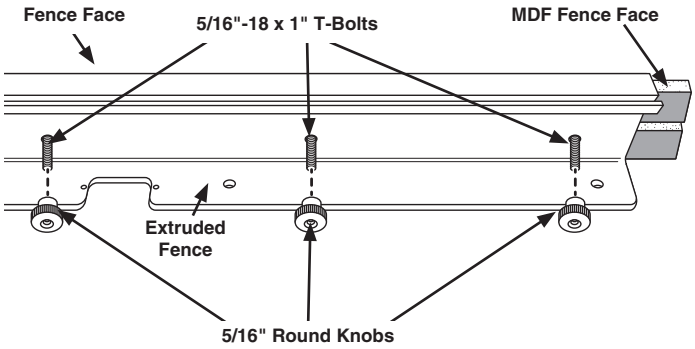
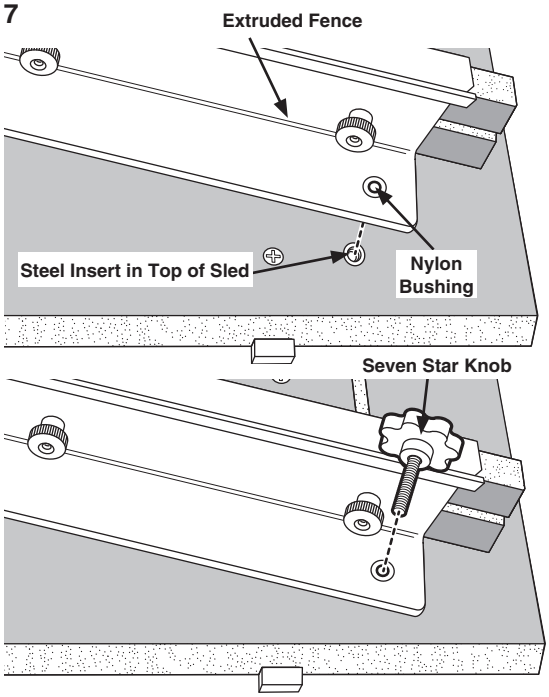


Figure 6



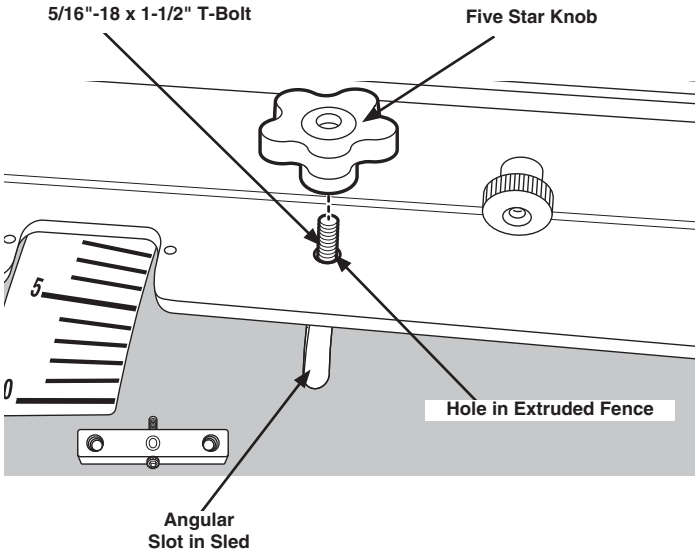
6. Place the nylon bushing into the hole on the end of the extruded fence. Align the nylon bushing over the extended steel insert in the top of the MDF sled and secure with the seven star knob. See Figure 7.

Figure 7



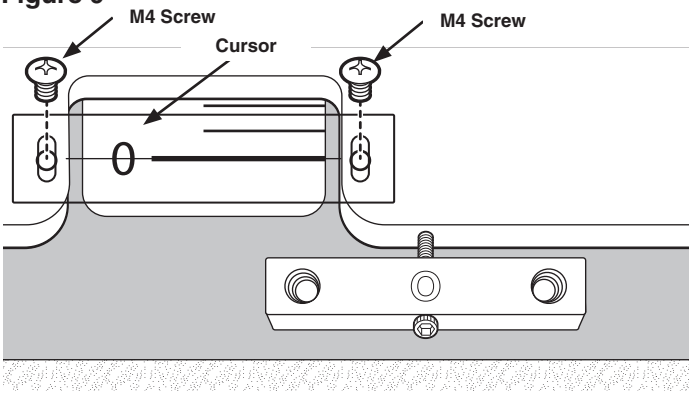
7. From the underside of the MDF sled, insert the 5/16"-18 x 1-1/2" T-Bolt through the angular slot in the MDF sled and the base of the extruded fence. Secure in place with the five star knob. See Figure 8.

Figure 8



8. Attach the cursor, flat side up, using the two M4 screws. See Figure 9.

Figure 9



SET-UP

Refer to Figure 10–14

⚠WARNING

The table saw crosscut sled is intended for use only on cabinet and full-size contractor-grade table saws with a standard 3/8"D x 3/4"W miter slot. It is NOT intended for use on portable saws.

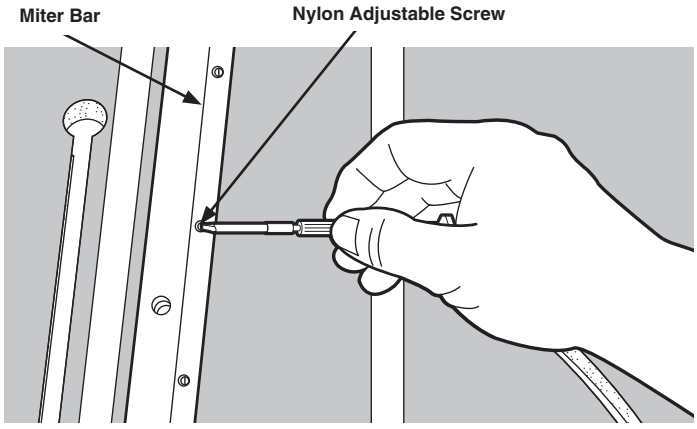
1. Make sure the table saw's blade is parallel to the table's miter slot and 90˚ to the table. If it isn't, follow the saw manufacturer's guidelines to make necessary adjustments so it is parallel to the miter slots and square to the table.
2. Lower the blade below the table surface.

⚠WARNING

The miter bar MUST be able to slide freely forward and backward without side-to-side play. NEVER attempt to force the crosscut sled if it fails to slide freely.

3. Place the miter bar on the crosscut sled into the left miter slot of the table saw and slide it to evaluate the fit. The crosscut sled should slide easily but not shift side to side. If adjustments are needed:
   - Remove the crosscut sled and turn it over. Use the supplied small screwdriver to adjust the nylon adjustable screws. Make necessary adjustments until the crosscut sled slides easily but does not shift side to side.

Figure 10



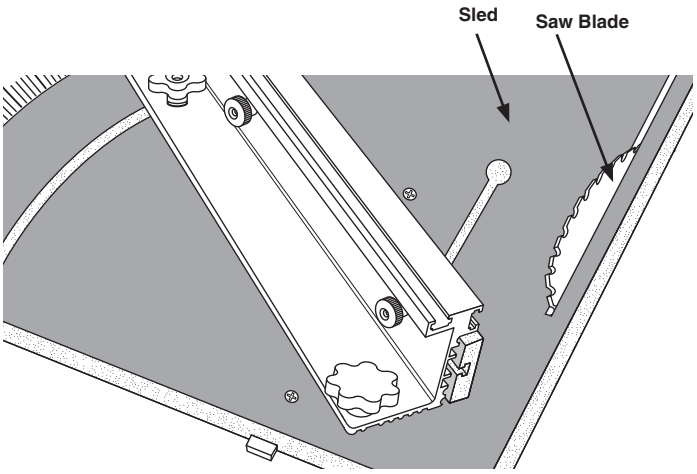
4. Trim the crosscut sled platform to fit the table saw being used.

⚠WARNING

The distance between the blade and miter track must be 4-1⁄4" or greater to ensure proper clearance between the sled fence and the blade.

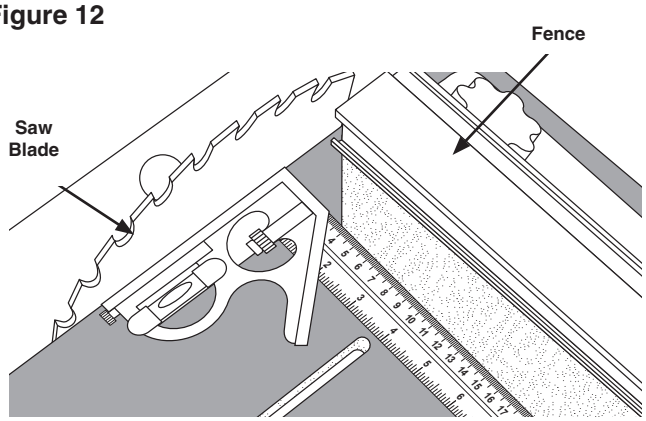
- Place the crosscut sled on the saw's table with the miter bar in the left miter slot and clear of the blade.
- Make sure the MDF fence face is retracted out of the way and will not be cut by the blade. Turn on the saw and raise the blade, push the sled through the blade to make the cut. **NOTE:** The edge of the crosscut sled now precisely locates the cut line and provides zero-clearance support to minimize tear-out.

Figure 11



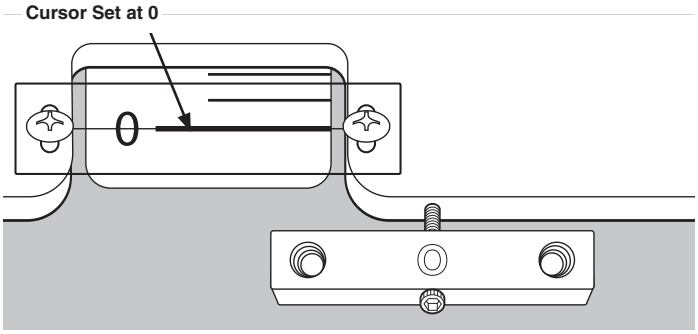
5. Set the fence square to the saw blade. Loosen the five and seven star knobs to allow the fence to be adjusted. See Figures 7 and 8.
   - Place a reliable combination square against the blade and adjust the fence until it is precisely 90° to the saw blade. (Make sure the square contacts only the plate of the blade and not the teeth.) See Figure 12.
   - Tighten the five and seven star knobs to lock down the fence. Figures 7 and 8.
   - The line on the acrylic indicator might not line up with 0° angle mark on the protractor scale at this time, this adjustment will be made later.

Figure 12



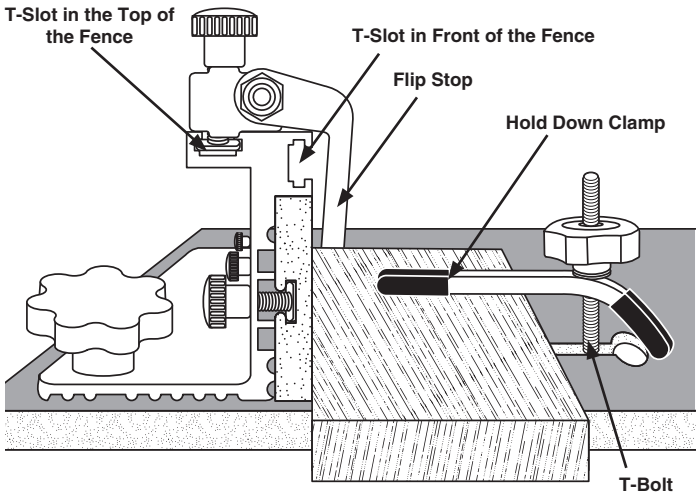
6. With the fence square to the blade, use the included hex wrenches to turn the set screw in the adjustable stop until it contacts the back of the fence. This screw will act as a stop every time you return the fence to 0°. See Figure 13.
7. Use a screwdriver to adjust the acrylic indicator so that the red line is directly over the 0° angle mark. See Figure 13.

Figure 13



8. Install the hold down clamp.
   - Inserting the T-bolt from the underside of the sled, slide to the desired position and secure with the supplied knob.
9. Slide the T-Bolt on the flip stop into the T-Slot in top of the fence, tighten the knob. The arm on the flip stop functions as an easily adjustable stop and can be flipped up when not needed. **NOTE:** The flip stop is multi-functional, see the ***Flip Stop*** paragraph under **Operation** for details. To prevent chip build up, the stop does not extend the full width of the fence. However when using a stop with material 3/8" thick or less, a longer stop will need to be fabricated and can be mounted in the T-Slot located in the front of the fence.

Figure 14



USE

Refer to Figure 14–16

⚠DANGER

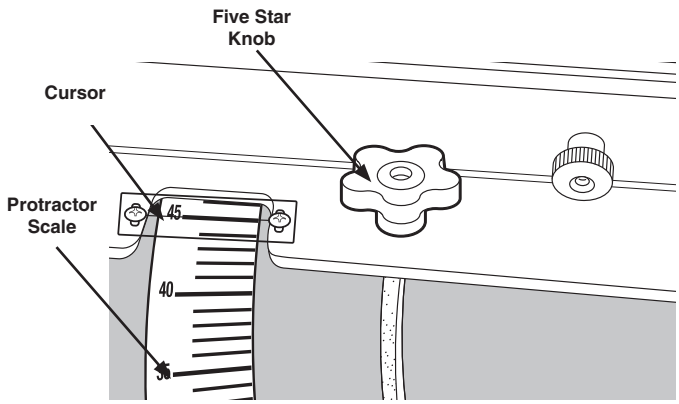
- To avoid serious injury, keep hands out of the path of the spinning blade. Maintain awareness of the blade at all times.
- Always turn off and unplug the saw when making any adjustments.

⚠WARNING

- For your own safety, read all of the rules and precautions before operating tool.
- Tighten all knobs and hold downs securing the workpiece after making any adjustments and before making any cuts.

1. Slide the miter bar into the saw's miter slot and position the crosscut sled at the front of the saw, clear of the blade.
2. Set the fence to the desired angle of cut.
   - Loosen the five star knob, rotate the fence and use the protractor scale and cursor indicator to set the fence to the desired angle of cut. Tighten the five star knob to secure in place.

Figure 15

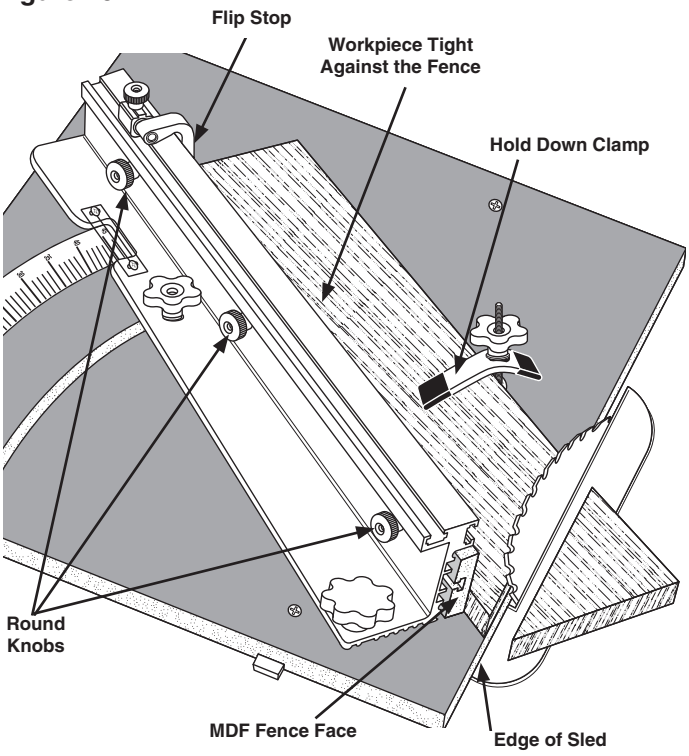


3. **NOTE:** If desired, the MDF fence face can provide zero-clearance support to minimize tear-out on the back of the cut. To make this adjustment:
   - Loosen the round knobs and slide the MDF fence face in or out to the desired position and then tightening the round knobs. Make sure the MDF fence face is out of the blade's path so it will not be cut.
4. Make sure the blade height is sufficient to cut through the workpiece when it is on the crosscut sled.

IMPORTANT: After all adjustments have been made, tighten all knobs and hold downs to secure the workpiece. DO NOT attempt to cut pieces that are too short to be secured to the crosscut sled with the hold down clamp.

5. Place your workpiece on the sled, tight against the fence and line up the desired cut line with the edge of the sled.
6. Clamp your workpiece to the sled by positioning the hold down clamp and tightening the five-star knob. See Figure 14 and 16.
7. Turn on the saw and slowly advance the sled to make the cut. Once the cut is complete, turn off the saw and allow the blade to stop spinning before returning the sled to the front of the saw. Figure 16.
8. If you need to cut multiple pieces to the same length, use the included flip stop. See Figure 14 and 16.

Figure 16



Flip Stop

Refer to Figure 14, 17

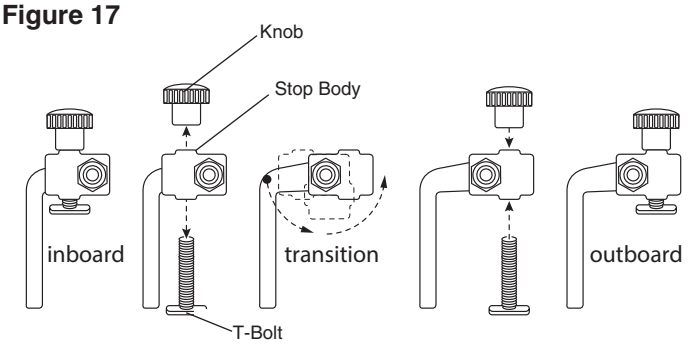
The POWERTEC 71367 3" fence flip stops are extremely versatile and quickly convert from inboard to outboard position for a variety of applications. In addition, the flip arm can be moved from right to left to match your feed direction requirements.

- Slide the T-Bolt on the bottom of the flip stop into the T-Slot on the top of the fence. See Figure 14.
- In the inboard position, the stop works with the supplied multi T-Track fence and functions as an easily adjustable stop.
- In the outboard position, the body rotates and the flip arm moves out. In this position the stop can work with the supplied multi T-Track fence and a 3/4" sacrificial wood board.

To Convert from Inboard to Outboard Position

Remove the knob and T-Bolt and rotate the stop body 180°. Replace the knob and T-bolt. See Figure 17.

Figure 17



8 MAINTENANCE

GENERAL MAINTENANCE

⚠WARNING

When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage. To ensure safety and reliability, all repairs should be performed by a qualified service technician.

⚠WARNING

Keep the table saw crosscut sled dry, clean, and free from oil and grease. Always use a clean cloth when cleaning. Never use brake fluids, gasoline, petroleum based products or any strong solvent to clean the table saw crosscut sled. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

WARRANTY

Thank you for investing in a **POWERTEC** power tool. This product has been designed and manufactured to meet high quality standards and is guaranteed for domestic use against defects in workmanship or material for a period of 12 months from the date of purchase. This guarantee does not affect your statutory rights.

SOUTHERN TECHNOLOGIES LLC. BENCH TOP AND STATIONARY POWER TOOL LIMITED 1 YEAR WARRANTY AND 30-DAY SATISFACTION GUARANTEE POLICY

POWERTEC products are designed and manufactured by **Southern Technologies LLC.** All warranty communications should be directed to **Southern Technologies LLC** by calling 847-780-6120, 9 AM to 5 PM, Monday through Friday, US Central Time.

30- DAY SATISFACTION GUARANTEE POLICY

During the first 30 days after the date of purchase, if you are dissatisfied with the performance of this ***POWERTEC*** tool for any reason, you may return the tool to the retailer from which it was purchased for a full refund or exchange. You must present proof of purchase and return all original equipment packaged with the original product. The replacement tool will be covered by the limited warranty for the balance of the one year warranty period.

LIMITED ONE YEAR WARRANTY

This warranty covers all defects in workmanship or materials in this ***POWERTEC*** tool for a one year period from the date of purchase. This warranty is specific to this tool. **Southern Technologies, LLC** reserves the right to repair or replace the defective tool, at its discretion.

HOW TO OBTAIN SERVICE

To obtain service for this POWERTEC tool you must return it, freight prepaid, to POWERTEC. You may call 847-780-6120 for more information. When requesting warranty service, you must present the proof of purchase documentation, which includes a date of purchase. POWERTEC will either repair or replace any defective part, at our option at no charge to you. The repaired or replacement unit will be covered by the same limited warranty for the balance of one year warranty period.

WHAT IS NOT COVERED

This warranty applies to the original purchaser at retailer and may not be transferred.
This warranty does not cover consumable items such as saw blades, knives, belts, discs, cooling blocks and sleeves.
This warranty does not cover required service and part replacement resulting from normal wear and tear, including accessory wear.
This warranty does not cover any malfunction, failure or defect resulting from:
1) misuse, abuse, neglect and mishandling not in accordance with the owner's manual.
2) damage due to accidents, natural disasters, power outage, or power overload.
3) commercial or rental use.
4) alteration, modification or repair performed by persons not recommended by ***POWERTEC***.

DISCLAIMER

To the extent permitted by applicable law, all implied warranties, including warranties of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, are disclaimed. Any implied warranties, that cannot be disclaimed under state law are limited to one year from the date of purchase. **Southern Technologies LLC**. is not responsible for direct, indirect, incidental or consequential damages. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Southern Technologies LLC., makes no warranties, representations, or promises as to the quality or performance of its power tools other than those specifically stated in this warranty.

POWERTEC®

Southern Technologies, LLC
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