

Table Saw Sled Kit



WARNING

To reduce the risk of injury, turn table saw off and disconnect it from power source before installing and removing accessories. An accidental start-up can cause injury.

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.

WARNING

For your own safety, read and follow all safety procedures listed in the table saw instruction manual.

WARNING

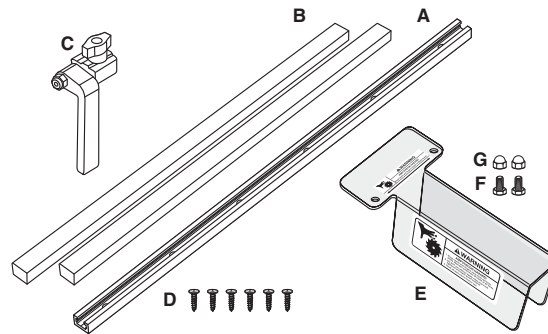
Do not use the table saw sled kit until it is completely assembled and you have read and understood this entire operating manual and the operating manual of the table saw being used with this table saw sled kit.

NOTE: These instructions are only a general guide for building your own table saw sled. The dimensions and materials used in these instructions reflect the design we chose. They can be changed or altered to meet your design or requirements.

PACKAGING CONTENTS

ITEM	DESCRIPTION	QTY
A	Universal T-Track (24" long)	1
B	HDPE (High Density Polyethylene) bars, 19" long x 3/4" x 3/8"	2
C	3" Flip stop	1
D	Flat Head Wood Screws, #6 x 1/2"	6
E	Blade guard	1
F	1/4"-20 x 1/2" hex bolts	2
G	1/4"-20 acorn hex nuts	2
	Instruction Sheet (not shown)	1

Figure 1



Additional materials will be needed to build the table saw sled. The things listed under **Tools Needed** and **Other Materials Needed** are NOT included in the kit. Gather all tools and materials before starting.

NOTE: Because your sled may vary in size and appearance depending on your needs, an exact cut list can not be provided. The example in these instructions will be for 18" x 24" base.

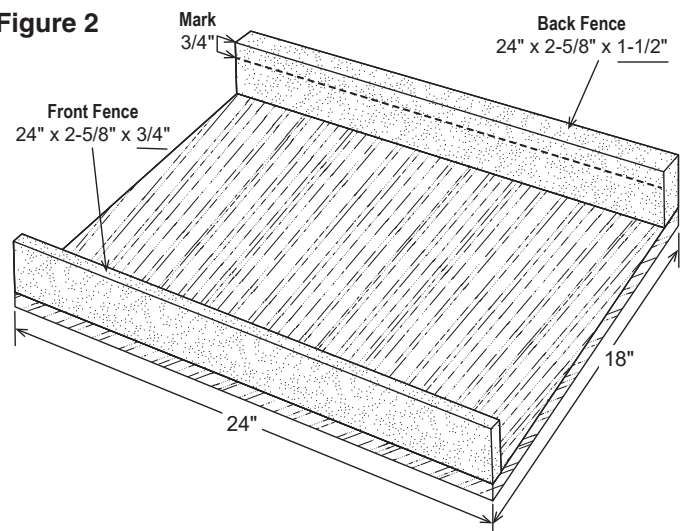
TOOLS NEEDED

- Drill
- Square
- Clamps (depends on the screws used)
- Countersink bit, forstner bit
- Router table

OTHER MATERIALS NEEDED

- CA Glue (Cyanoacrylate Adhesives)
- #8 x 3/4" flat head wood screws (quantity depends on your design)
- Flat head wood screws (size and quantity depends on your design)
- 1/2" Baltic Birch for the base (our example will cut the base to 18" x 24", purchase the size needed for your needs). **NOTE:** Other stock may be used, using the 1/2" Baltic Birch will make the sled lighter and easier to handle.
- Stock for Front and Back Fence, needs to be 24" long and 2-5/8" tall. This will allow the flip stop to work, without a gap between the end of the fence, the sled and the blade when it is fully raised. (In our example we used the stock size shown in Figure 2.) **NOTE:** The use of 3/4" wide stock will make mounting the T-Track to the front fence easier.

Figure 2

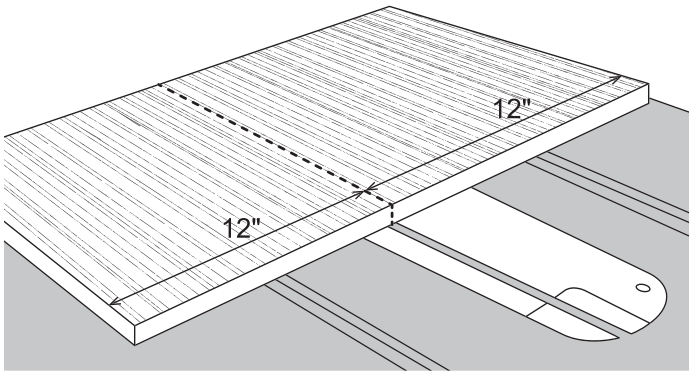


CROSSCUT SLED-BASE

1. Cut the 1/2" Baltic Birch to 18" by 24" for the base. The short side (18") should be going with the grain of the stock.
2. Mark the center point on the 24" side of the base.
3. With the saw turned off and disconnect from the power source, raise the saw blade until it is visible.
4. Place the base onto the saw table with the 18" side against the fence and align the center mark on the 24" side to the saw blade. With the base firmly against the fence and the center mark aligned with the saw blade, lock the fence into place.

IMPORTANT: Once the center point has been marked and the fence has been set and LOCKED it is important that the fence stays in this position for the next steps.

Figure 3

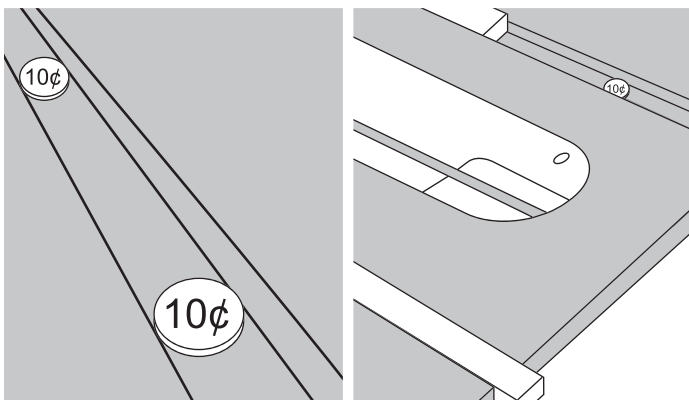


INSTALL HDPE BARS

IMPORTANT: Before installing the HDPE bars, make sure the holes for #8 x 3/4" flat head wood screws (not supplied) have been drilled and countersunk.

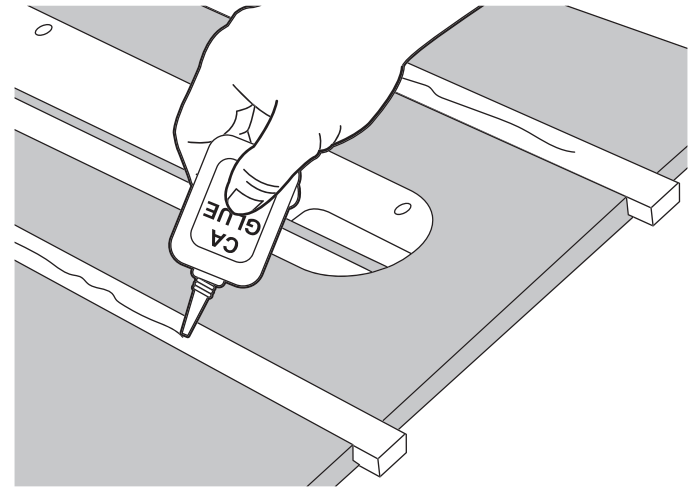
1. Place dimes into the table saw tracks, the dimes act as spacers and raise the bars so they contact the base.
2. Place the HDPE bars on top of the dimes in the saw tracks.

Figure 4



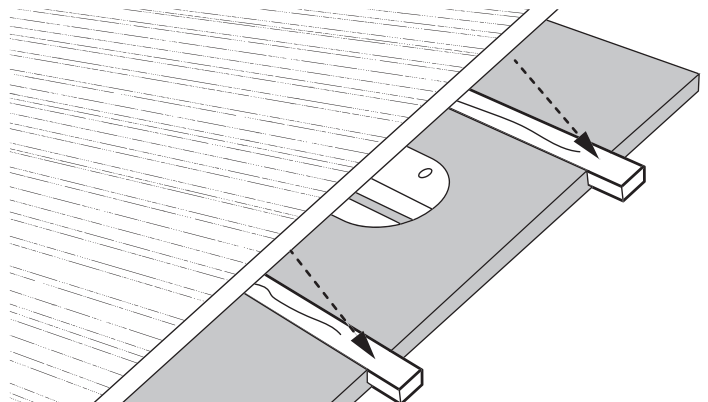
3. Dab the CA glue every few inches along the length of each bar. DO NOT apply the glue heavily, too much glue can cause it to drip into the table saw.

Figure 5



4. Place the short side (18") of the base up against the locked table saw fence and make sure both of the HDPE bars are even with one side of the board. Use the locked fence as a guide and carefully place the base onto the HDPE bars.
5. Place steady, downward pressure onto the base for a few minutes so the HDPE bars adhere to the base.
NOTE: A heavy object placed onto the base will work to apply pressure.

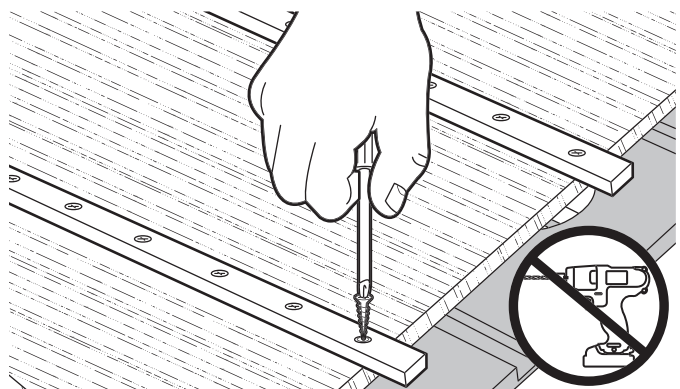
Figure 6



6. When the CA glue is dry, remove the base and dimes (spacers) from the table saw tracks.
7. Flip the base over and use a screwdriver to secure the HDPE bars to the base with #8 x 3/4" flat head wood screws (not supplied). Make sure the head of each screw is far enough in and is below the HDPE surface.

IMPORTANT: DO NOT over tighten the screws. DO NOT tighten the screws with a drill.

Figure 7



- After the screws are all tight, make sure the bars will slide freely in the saw table tracks. Adjust the screws until the bars slide freely.

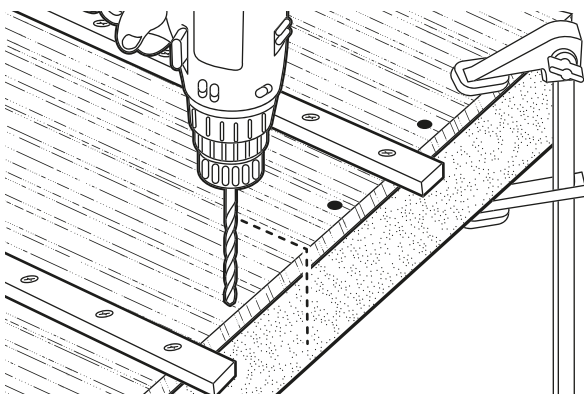
INSTALL THE BACK FENCE

In the example used, the back fence is cut to 24" long, 2-5/8" tall and 1-1/2" wide.

IMPORTANT: THE FRONT AND BACK FENCE MUST BE 2-5/8" TALL IN ORDER FOR THESE INSTRUCTIONS TO WORK PROPERLY. Measure 3/4" down from the top of the fence and draw a line. **NEVER** raise the blade above this mark. When the blade is fully raised it should be about 1-7/8" from the top of the sled base.

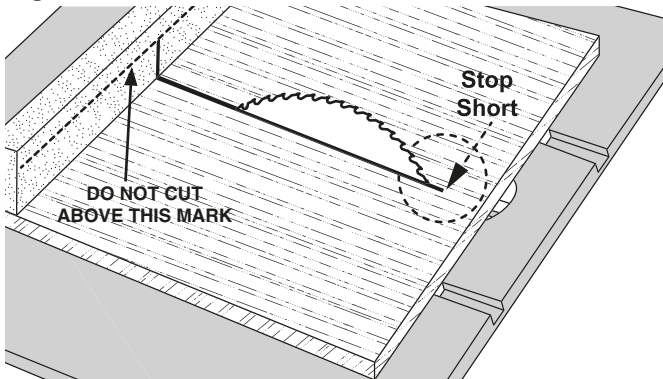
- Place the base (sled) with the extended HDPE bars onto the back fence, make sure it is flush.
- Clamp the back fence to the back of the base (sled). Make sure the back fence is flush with the back of the sled. Pre-drill counter sink holes across the back edge of the base into the back fence. **MAKE SURE THE HOLES DO NOT ALIGN WITH THE BLADE CUT (CENTER MARK ON BASE).**
- Secure the back fence to the base with the appropriate length flat head wood screws (not supplied).

Figure 8



- Unlock the saw fence and move it out of the way.
- With the back fence facing the saw blade, place the base onto the saw with the HDPE guide bars in the tracks.
- Raise the saw blade to the 3/4" mark made earlier. **DO NOT CUT ABOVE THIS MARK.** Turn on the table saw and push the base (sled) through the saw blade, cutting through the back fence and base, **STOP SHORT** before cutting all the way through the base.

Figure 9



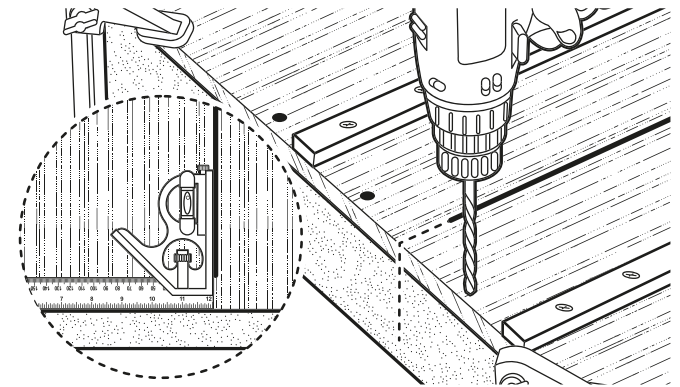
INSTALL THE FRONT FENCE

In the example used, the front fence is cut to 24" long, 2-5/8" tall and 3/4" wide.

The front fence needs to be square to the saw blade.

- Clamp one end of the front fence to the base.
- Use a square to adjust the front fence to be square to the kerf line (cut earlier) in the base. When square, clamp the other end of the front fence to the base.
- Pre-drill counter sink holes from the underside of the base into the front fence. **MAKE SURE THE HOLES DO NOT ALIGN WITH THE BLADE CUT (CENTER MARK ON BASE).**
- Secure the front fence to the base with the appropriate length flat head wood screws.

Figure 10

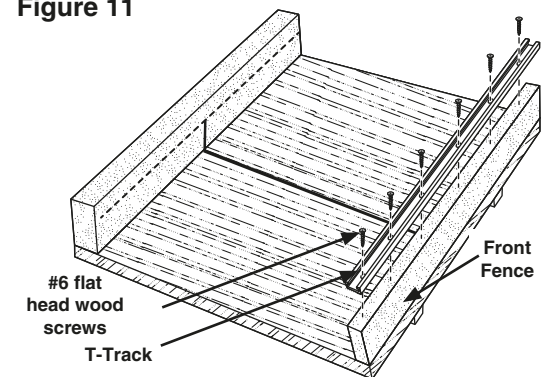


INSTALL THE T-TRACK

The T-Track allows the blade guard and flip stop to be assembled to the front fence.

- Place the T-Track onto the top of the front fence and clamp it in place.
- There are countersunk holes on the top of the T-Track, drive the #6 flat head wood screws (supplied) through the countersunk holes and into the fence.

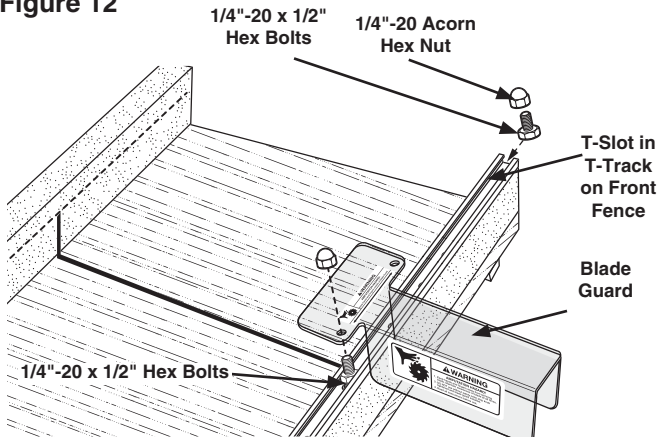
Figure 11



INSTALL GUARD

1. Slide the 1/4"-20 x 1/2" hex bolts into the T-Slot in the top of the front fence.
2. Place the blade guard onto the 1/4"-20 x 1/2" hex bolts and secure with the 1/4"-20 acorn hex nuts. DO NOT tighten.

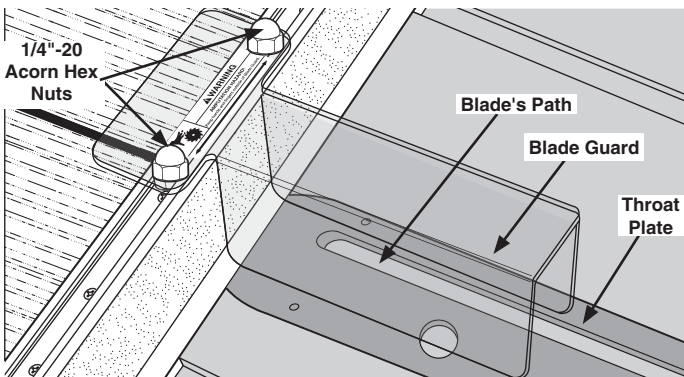
Figure 12



3. Position the blade guard with the rear channel centered over the blades path. Use the slot in the table saw's throat plate as a guide.
4. Tighten the 1/4"-20 acorn hex nuts to lock the blade guard in place.

CAUTION When cutting do not push the sled too far. Make sure the blade stays inside the guard.

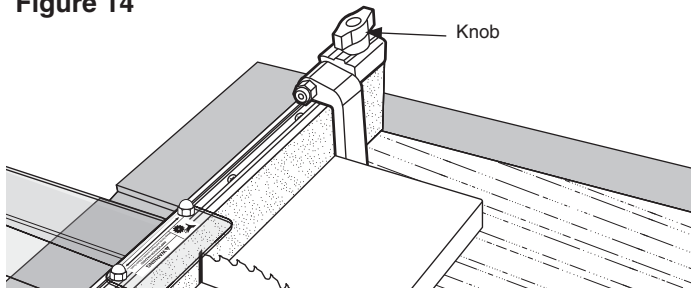
Figure 13



INSTALL THE FLIP STOP

Slide the T-Bolt on the flip stop into the T-Slot in the top of the front fence, tighten the knob. The arm on the flip stop functions as an easily adjustable stop and can be flipped up when not needed.

Figure 14



Flip Stop

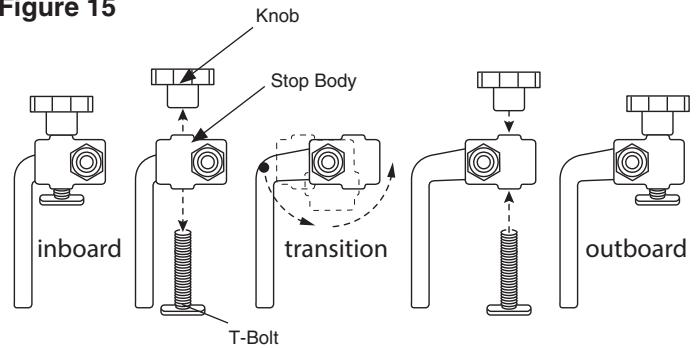
The 3" fence flip stop is extremely versatile and quickly converts from inboard to outboard position for a variety of applications. In addition, the flip arm can be moved from right to left to match your feed direction requirements.

- Slide the T-Bolt on the bottom of the flip stop into the T-Slot on the top of the front fence. See Figure 14.
- In the inboard position, the stop works with the 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 T-Track fence and a 3/4" sacrificial wood board.

To Convert from Inboard to Outboard Position

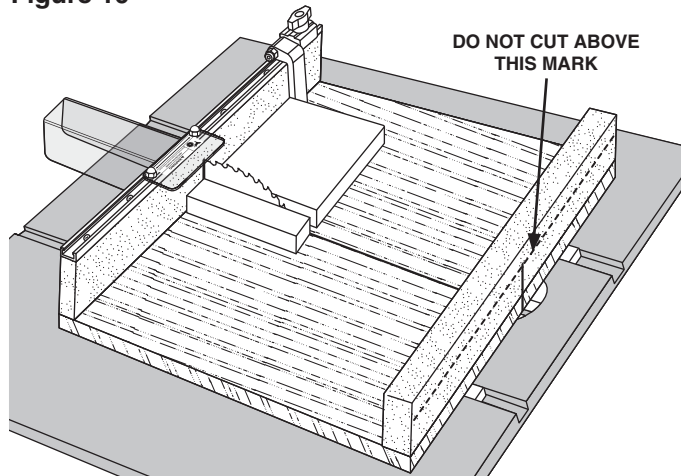
Remove the knob and T-Bolt and rotate the stop body 180°. Replace the knob and T-bolt. See Figure 15.

Figure 15



THE SLED IS READY TO USE

Figure 16



Visit us on the web at powertecproducts.com



Put these instructions and the original sales invoice in a safe, dry place for future reference.

Southern Technologies, LLC
Waukegan, IL 60087