

INSTRUCTION SHEET

POWERTEC®

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.

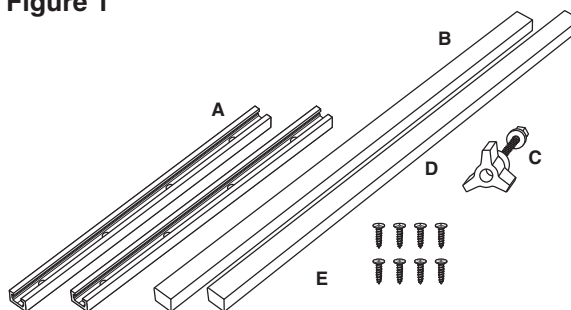
NOTE: These instructions are only a general guide for building your own table saw sled. The dimensions and materials used in these instructions reflect the design we chose. They can be changed or altered to meet your design or requirements.

PACKAGING CONTENTS

ITEM	DESCRIPTION	QTY
A	Universal T-Tracks (12" long)	2
B	HDPE (High Density Polyethylene) bars, 19" long 3/4" x 3/8"	2
C	Three Star Knob, 1/4"-20 x 1-1/2"	1
D	Hex Head Bolt, 1/4"-20 x 1-1/2"	1
E	Flat Head Wood Screws, #6 x 1/2"	8
	Instruction Sheet (not shown)	1

Model No. 71673

Figure 1



Additional materials will be needed to build the table saw sled. These things listed 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.

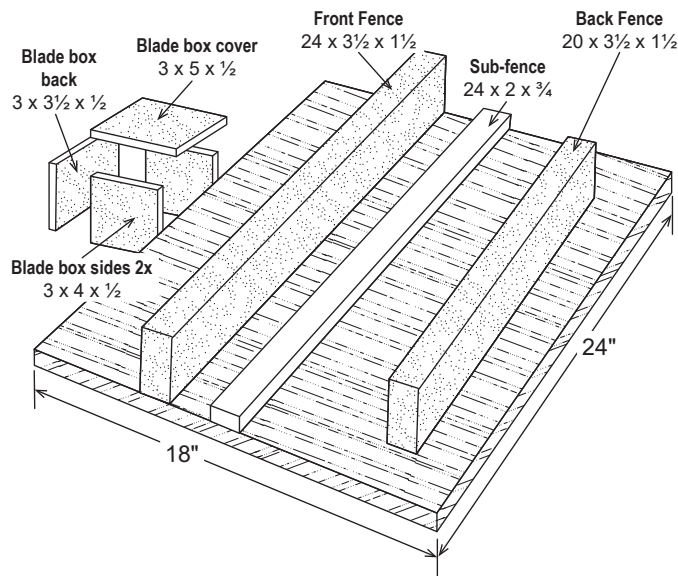
TOOLS NEEDED

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

OTHER NEEDED MATERIALS

- CA Glue (Cyanoacrylate Adhesives)
- 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 Back Fence, needs to be 3/4" taller than the blade when it is fully raised. (In our example we used the stock size shown in Figure 2.)
- Stock for Front Fence, needs to be 24" long and 3/4" taller than the blade when it is fully raised. (In our example we used the stock size shown in Figure 2.)
- Stock for a sub-fence, in our example we used 3/4" x 2" x 24" wide material.
- Stock for guard box, needs to be at least a 3" x 3" box. (In our example, we used the stock size shown in Figure 2.)
- Scrap Stock for stop block (in our example we used a 3/4" x 3/4" x 2" block and a 1/2" x 2" x 2-3/4" top plate).

Figure 2

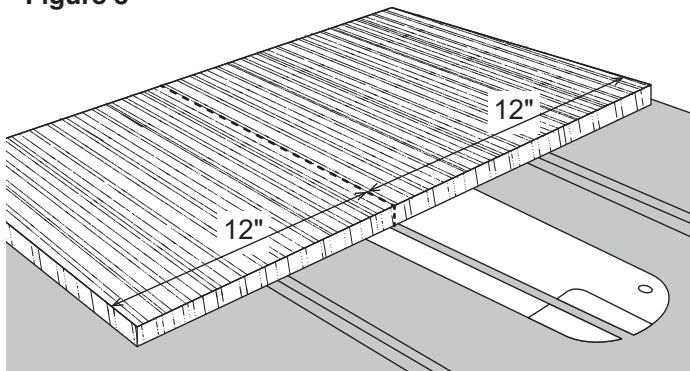


CROSSCUT SLED-BASE

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

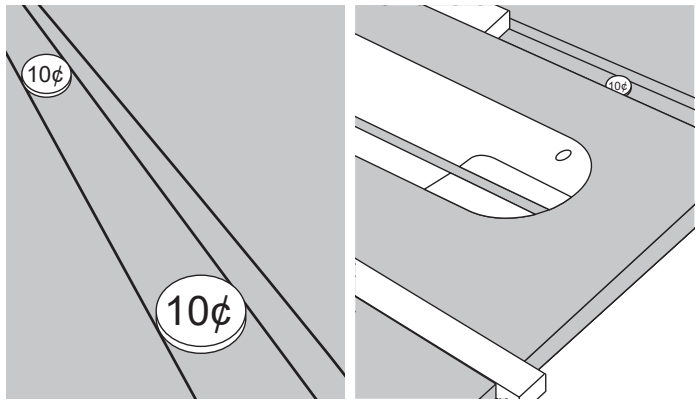


INSTALL HDPE BARS

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.

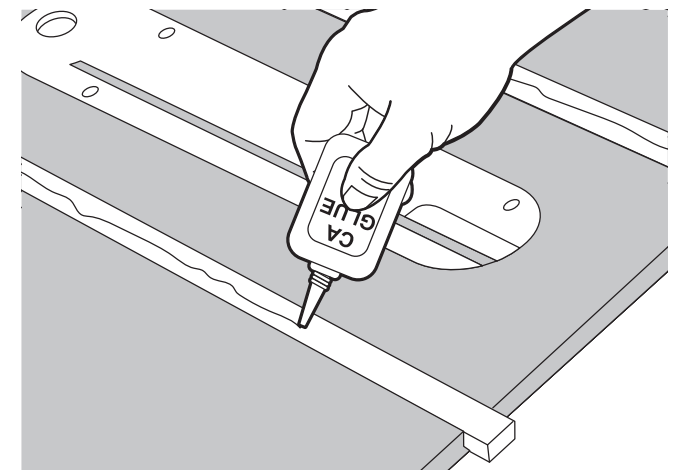
1. Place dimes into the table saw tracks, the dimes act as spacers and raise the bars so they contact the base.
2. Place the HDPE bars on top of the dimes in the saw tracks.

Figure 4



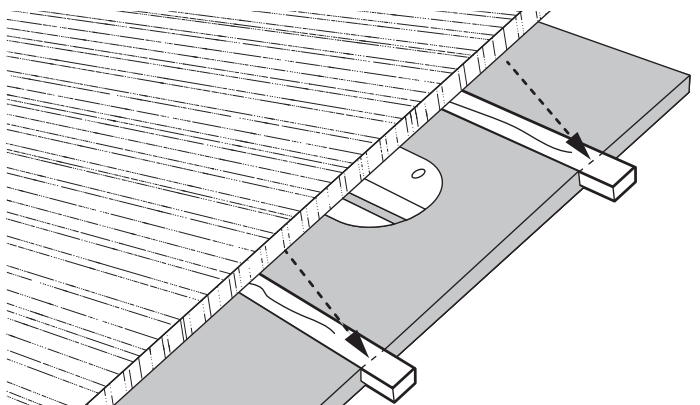
3. Dab the CA glue every few inches along the length of each bar. DO NOT apply the glue heavily, too much glue can cause it to drip into the table saw.

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

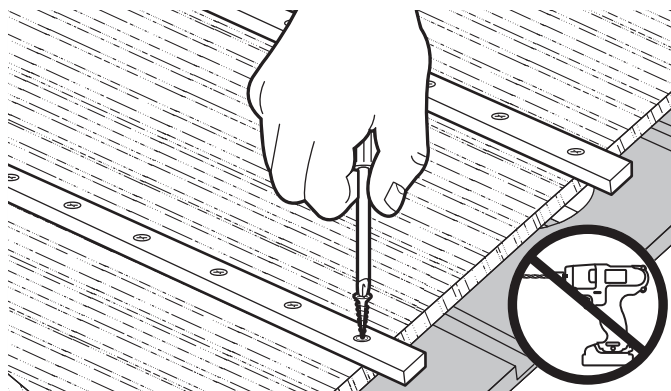


6. When the CA glue is dry, remove the base and dimes (spacers) from the table saw tracks.

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



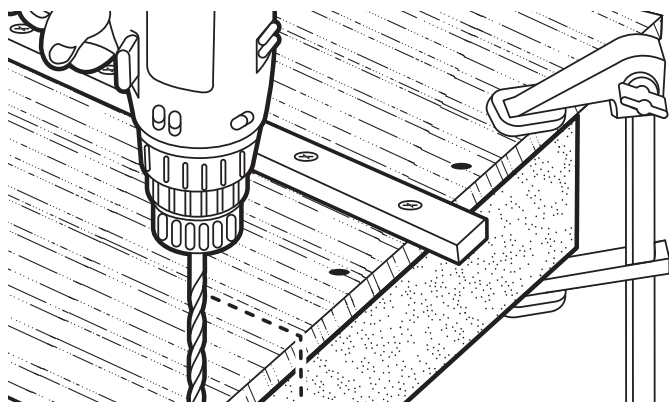
8. After the screws are all tight, make sure the bars will slide freely in the saw table tracks. Adjust the screws until the bars slide freely.

INSTALL THE BACK FENCE

In the example used the back fence is cut to 20". It needs to be 3/4" taller than the blade when fully raised.

1. Place the base (sled) with the extended HDPE bars onto the back fence, make sure it is flush.
2. 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).**
3. Secure the back fence to the base with the appropriate length flat head wood screws.

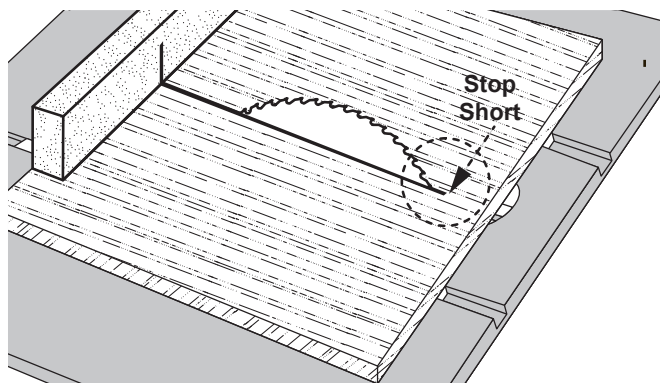
Figure 8



4. Unlock the saw fence and move it out of the way.
5. With the back fence facing the saw blade, place the base onto the saw with the HDPE guide bars in the tracks.

6. Raise the saw blade all the way up, 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



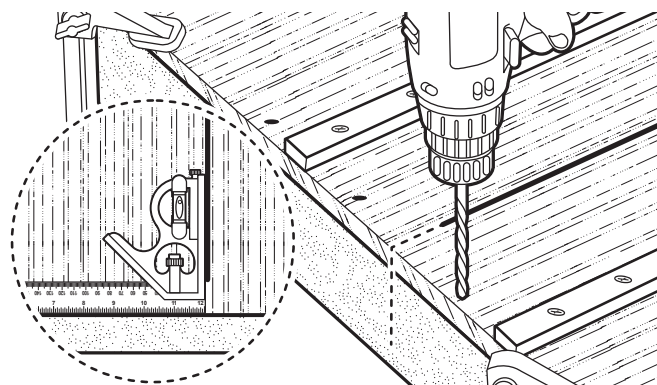
INSTALL THE FRONT FENCE

In the example used, the front fence is cut to 24" long, 1-1/2" wide and 3/4" taller than the saw blade when fully raised.

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

1. Clamp one end of the front fence to the base.
2. 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.
3. 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).**
4. Secure the front fence to the base with the appropriate length flat head wood screws.

Figure 10

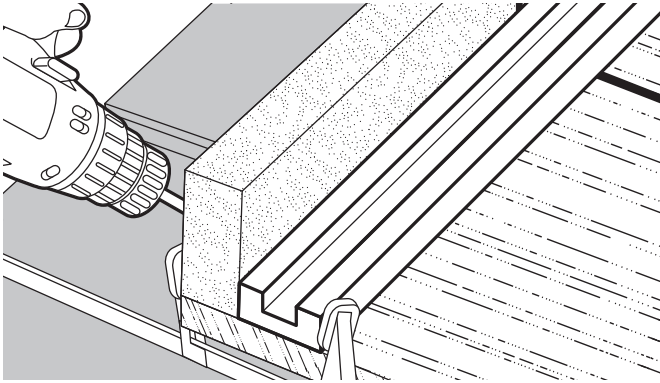


INSTALL THE SUB-FENCE WITH T-TRACK

The sub-fence with the T-Track will allow the use of a stop block.

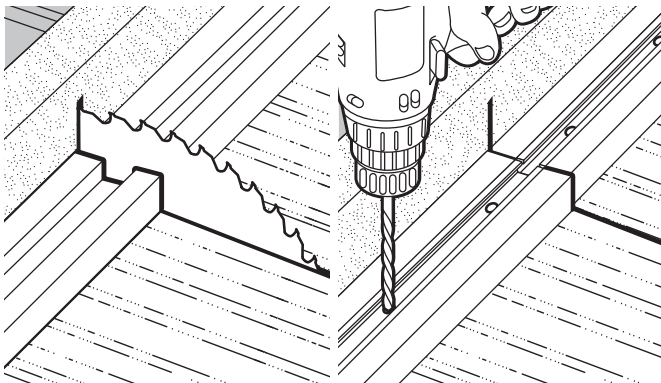
1. Cut a piece of stock to 3/4" x 2" x 24".
2. Use a router and router table to mill a slot 3/4" wide and 3/8" deep. Make sure the T-Track is flush with the top of the board and centered on the sub-fence.
3. Clamp the sub-fence to the front fence. Use wood screws to attach the sub-fence to the front fence. DO NOT install track.

Figure 11



4. Cut through the sub-fence to separate the two sides of the fence.
5. Position the T-Tracks into the slot, 1/8" from the cut line to prevent the saw blade from contacting the T-Tracks.
6. Secure the T-Tracks in place with eight #6 x 1/2" wood screws provided

Figure 12

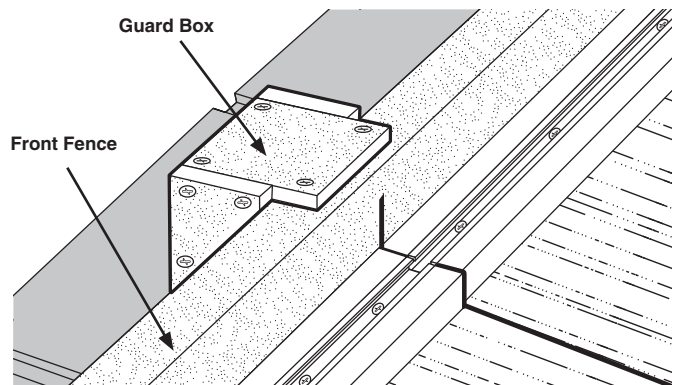


STOP BLOCK AND GUARD BOX

A stop block is useful when making repetitive cuts. The guard box placed over the center of the front fence will prevent the saw blade from being exposed while cutting.

1. Make a guard box (see Figure 2 for an example of needed stock) and attach it to the front of the front bridge with wood screws (not supplied).

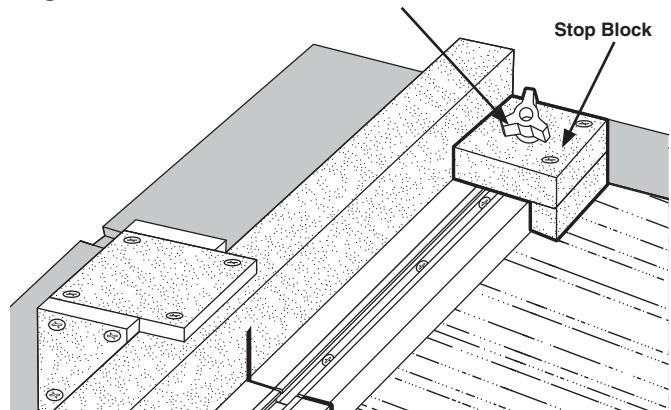
Figure 13



2. Use scrap pieces of stock, the 1/4"-20 x 1-1/2" star knob and hex head bolt, 1/4"-20 x 1-1/2" to make a stop block.

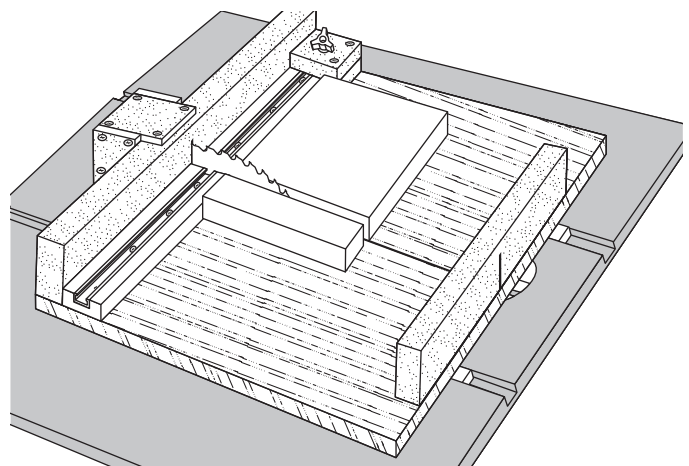
Figure 14

1/4"-20 x 1-1/2" Star Knob



THE SLED IS READY TO USE

Figure 15



Visit us on the web at powertecproducts.com



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

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