

POWERTEC®

Rail Guide Coping Sled



⚠ 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 Rail Guide Coping Sled or any tool used with Rail Guide Coping 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 Rail Guide Coping Sled. The supplier cannot be held responsible for any accident, injury or damage incurred while using Rail Guide Coping 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 Rail Guide Coping 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

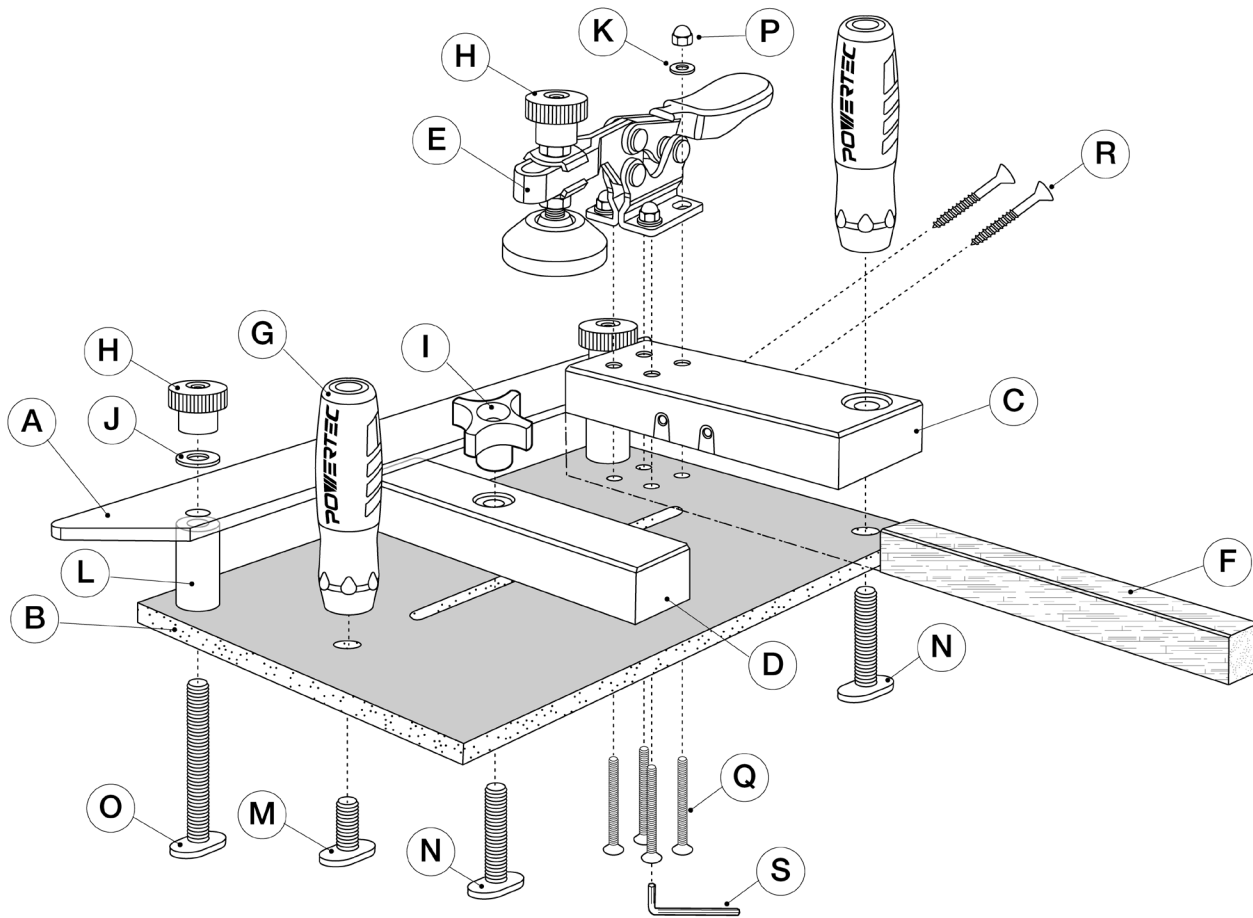
Think safety! Safety is a combination of operator common sense and alertness at all times when tool is being used.

⚠ WARNING

Do not use the Rail Guide Coping 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 Rail Guide Coping Sled.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

Figure 1



UNPACKING

Refer to Figure 1

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

ITEM	DESCRIPTION	QTY
A	Fence Guide	1
B	Sled Base	1
C	Fixed Fence	1
D	Adjustable Fence	1
E	Lever Clamp	1
F	Sacrificial Piece	1
G	Handles	2
H	Round Knobs 5/16"-18	3
I	4-Point Knob 5/16"-18	1
J	Washers 5/16"	2
K	Washers	4
L	Spacers	2
M	T-Slot Bolt 5/16"-18 x 1"	1
N	T-Slot Bolt 5/16"-18 x 2"	2
O	T-Slot Bolt 5/16"-18 x 2-1/2"	2
P	Cap Nuts M4	4
Q	Mounting Screws Flat Head M4 x 1-3/4"	4
R	Wood Screws #8 x 1-3/4"	2
S	Hex Wrench 2.5mm	1

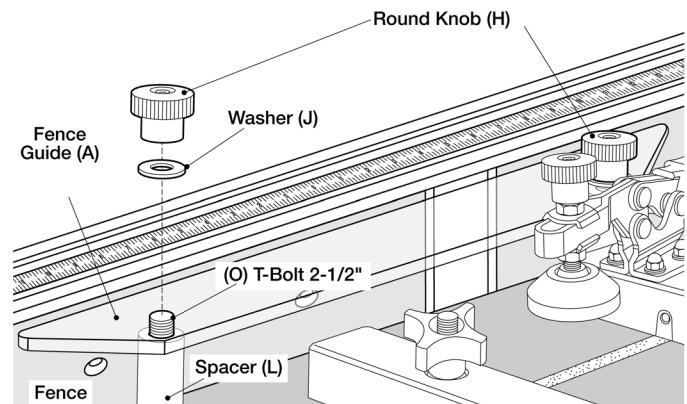
ASSEMBLY *Note: Reference Figure 1 as needed*

Observe and assemble the parts as shown. Figure 1

Assemble but DO NOT TIGHTEN THE FOLLOWING: Round Knobs (H) securing Fence Guide (A), Front and Rear Handles (G), Mounting Screws (Q) that attach Fixed Fence (C) and Lever Clamp (E) to Sled Base (B). These will be tightened during calibration. AFTER setup and calibration steps are completed attach Sacrificial Piece (F).

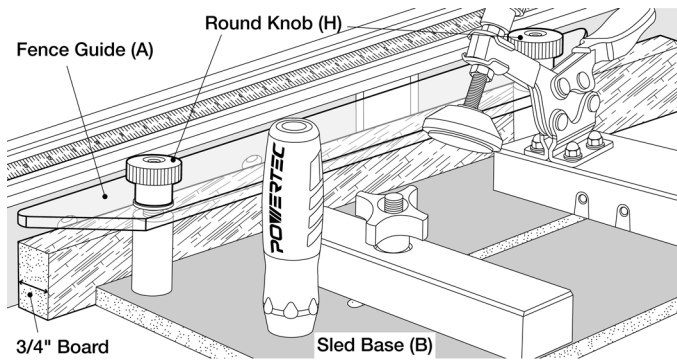
SETUP AND USE

Figure 2



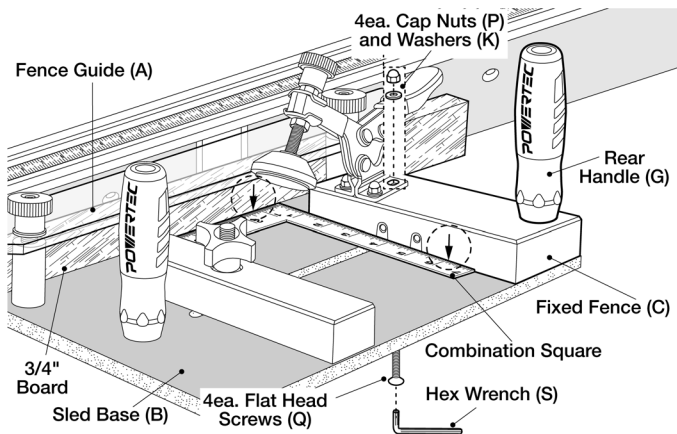
1. Position assembled Rail Guide Coping Sled with clear Fence Guide (A) flush against the fence of the router table. At this point keep Round Knobs (H) loose on Fence Guide. (Fig. 2)

Figure 3



2. Keeping Fence Guide (A) against the fence, adjust Sled Base (B) by using a 3/4" thick board along its entire length. Take measurements at both ends of the Sled Base assuring it is parallel to the router table fence. NOW tighten the Round Knobs (H). Check that nothing has shifted. (Fig. 3)

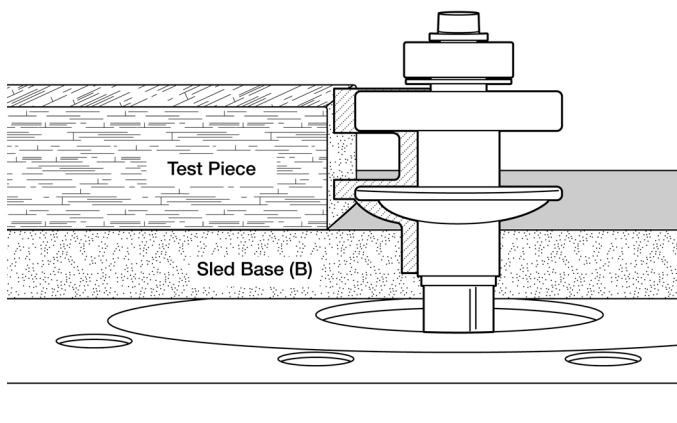
Figure 4



3. With Fence Guide (A) tight against router table fence, and 3/4" thick board still in place, use a combination square to set the Fixed Fence (C) to precisely 90°. NOW Tighten Rear Handle (G) locking Fixed Fence in place. Flip over Sled Base (B). Using 2.5mm Hex Wrench (S) to tighten Mounting Screws (Q) securely to Cap Nuts (P) with Washers (K). (Fig. 4)

To Set Bit Height

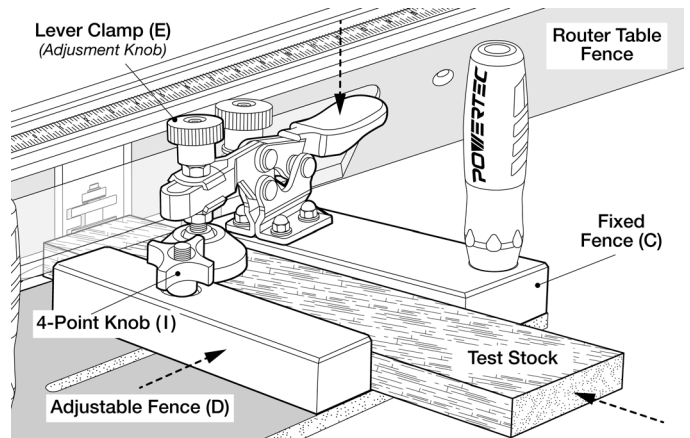
Figure 5



Place a test piece of end-grain-cut rail stock onto Sled Base (B) sliding it next to the bit. Adjust the bit to appropriate height. Tighten the bit.

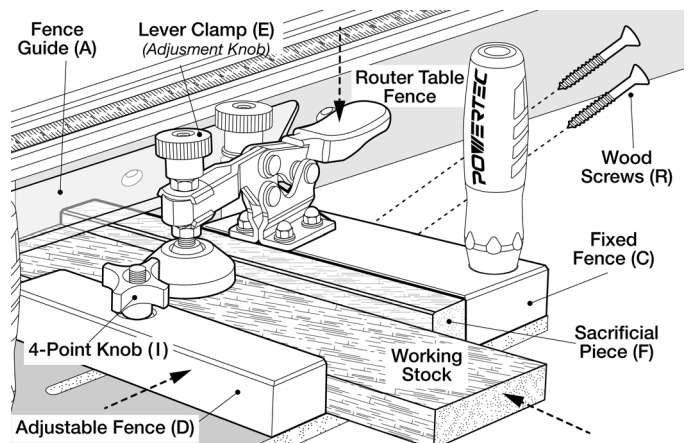
To Use:

Figure 6



1. Position the test stock for routing by pressing it up against the Fixed Fence (C) and the router table fence. (Fig. 6)
 - a. Slide the Adjustable Fence (D) snug against the stock and tighten the 4-Point Knob (I).
 - b. Use the knob on Lever Clamp (E) to adjust clamp foot ensuring sufficient pressure on stock, then engage handle on Lever Clamp (E) securing stock. Rout a test cut. Fine-tune the bit height if needed. Repeat test cuts as necessary.

Figure 7



2. Return Assembled Sled to router table, with Fence Guide (A) snug against fence. (Fig. 7).
 - a. Place Sacrificial Piece (F) (square corners down) onto Sled Base (B) and against the Fixed Fence (C).
 - b. Now slide it toward router table fence until it makes contact. Secure it by driving #8 x 1-3/4" Screws (R) through the predrilled holes in the back edge of the Fixed Fence (C).
 - c. Use a combination or engineer's square to verify it is square to the router table fence.
3. Slide actual working stock flush to both Sacrificial Piece (F) and Router Table Fence. Once flush, use the knob on Lever Clamp (E) to adjust clamp foot ensuring sufficient pressure on stock, then engage handle Lever Clamp (E) securing stock. Move Adjustable Fence (D) in place next to working stock. Tighten 4-Point Knob (I) to secure in place.
4. Begin routing cuts by moving sled from right to left on the router table.

 **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 Rail Guide Coping 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 Rail Guide Coping Sled. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

Visit us on the web at www.powertecproducts.com



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

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