Manuals+

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POWERTEC®

POWERTECH 71850 Router Table Insert Plate

Specifications

- **Model No..**: 71850
- **Main Aluminum Insert Size:** 1147/64 (298mm) x 917/64 (235.5mm)
- **Includes**: Flat head locking screw, Reducing Rings, Ring Wrench, Leveling Screws, Starting pin with Insert, Hex Wrench

WARNING

- For your own safety, read all of the rules and precautions before operating tool.
- Always follow proper operating procedures as defined in this manual even if you are familiar with use of Insert Plate or any tool used with Insert Plate. 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 Insert Plate. The supplier cannot be held responsible for any accident, injury or damage incurred while

using Insert Plate 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.
- 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.
- Do not modify or use Insert Plate 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 Insert Plate 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 Insert Plate.
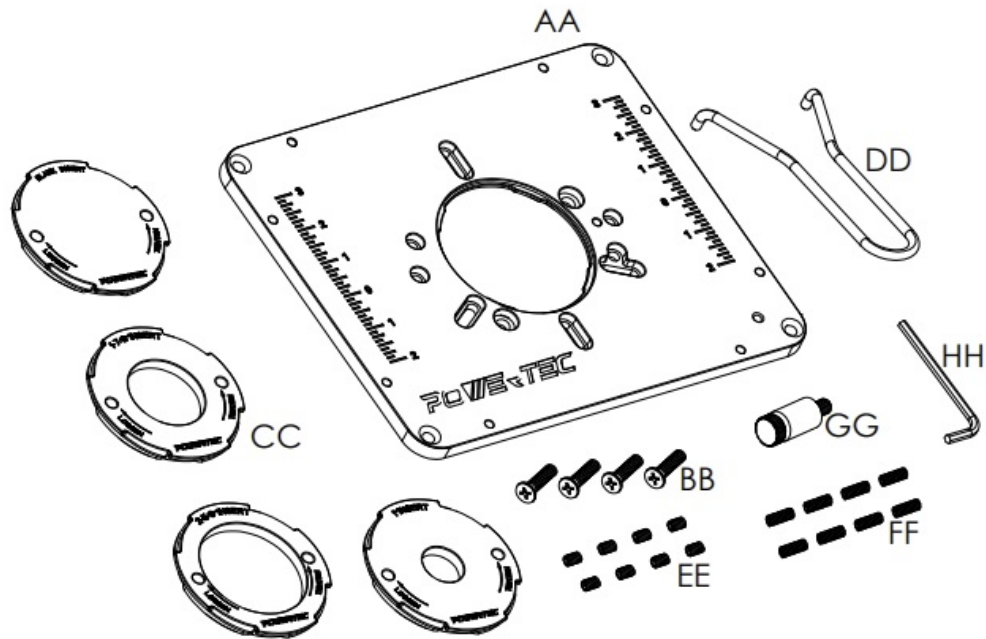
SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

UNPACKING

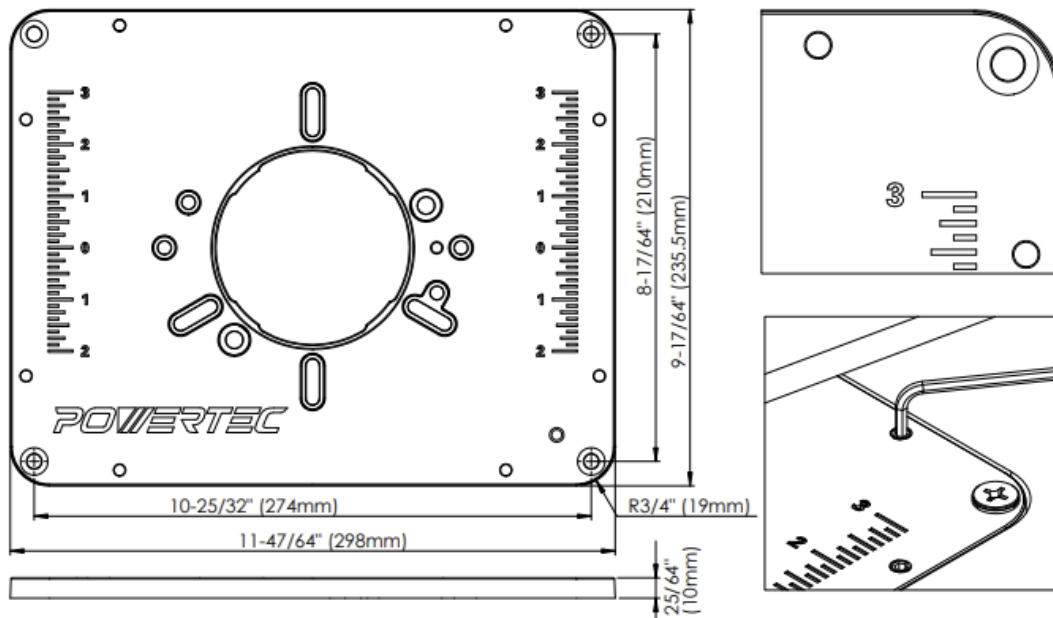Check for shipping damage. Check immediately whether all parts and accessories are included.

ITEM	DESCRIPTION	QTY
AA	Main Aluminum Insert	1
BB	Flat head locking screw (1/4″-20)	4
CC	Reducing Rings (includes solid insert, 1″, 1-7/8″ & 2-5/8″ openings)	4
DD	Ring Wrench	1
EE	Leveling Screw 1/4″-20 x 3/8″ L	8
FF	Leveling Screw 1/4″-20 x 5/8″ L	8
GG	M5 Starting pin with M6 Insert	1
HH	Hex Wrench	1

Figure 1

ROUTER PLATE DIMENSION DESKTOP

- The dimensions of the router plate are 11-47/64″ (298mm) x 9-17/64″ (235.5mm).
- In most cases, the leveling hardware, that comes with your router table, can be adjusted to fit the location of the locking screws.
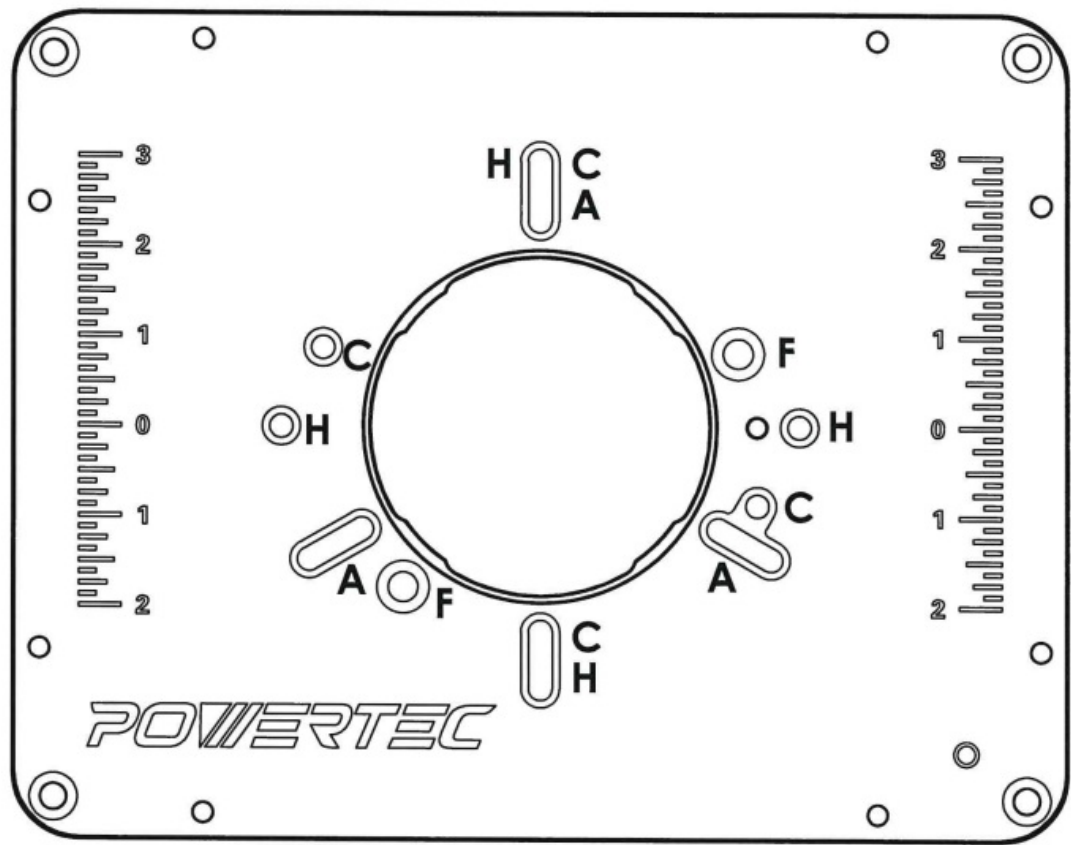

NOTE: The size of the router plate may be slightly different. Please measure the size of the router plate before use.

ROUTER HOLE PATTERNS

- On the chart find the model and the corresponding letter for your router.
- Find the corresponding letters for your router in Figure 2.
- **NOTE:** Some routers have more than one option.
- Place the insert onto the router base and line up the first letter with the appropriate hole and then rotate the plate until all holes for the pattern line up. Install and tighten the machine screws.

Figure 2

PORTER CABLE*	A	690 Series		A	8529 / 7529
	H	7518 / 7519 / 7538 / 7539			
DEWALT*	F	DW621		A	DW616 Series
	F	DW625		A	DW618 Series

Craftsman*	C	315 275 000			A	315 175 060
	A	315 175 040			A	315 175 070
	A	315 175 050				
Bosch*	A	1617 (fixed base)			A	1618
	A	1617 (plunge base)			A	MR23 Series
Makita*	A	RF1101				
Ryobi*	C	R1631K				
Milwaukee*	A	5615	A	5616	A	5619
	H	5625-20				
Fein*	F	FT 1800				
Elu*	F	177				
Hitachi*	A	M-12VC				
Triton*	H	TRA001			H	MOF001

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Makita is a trademark of Makita Corporation—Ryobi is a trademark of Ryobi Limited and is used by Techtronic Industries Company LTD—Milwaukee is a trademark of Techtronic Industries Company LTD—Fein is manufactured by C. & E. Fein GmbH—Hitachi is a trademark of Hitachi, Ltd.

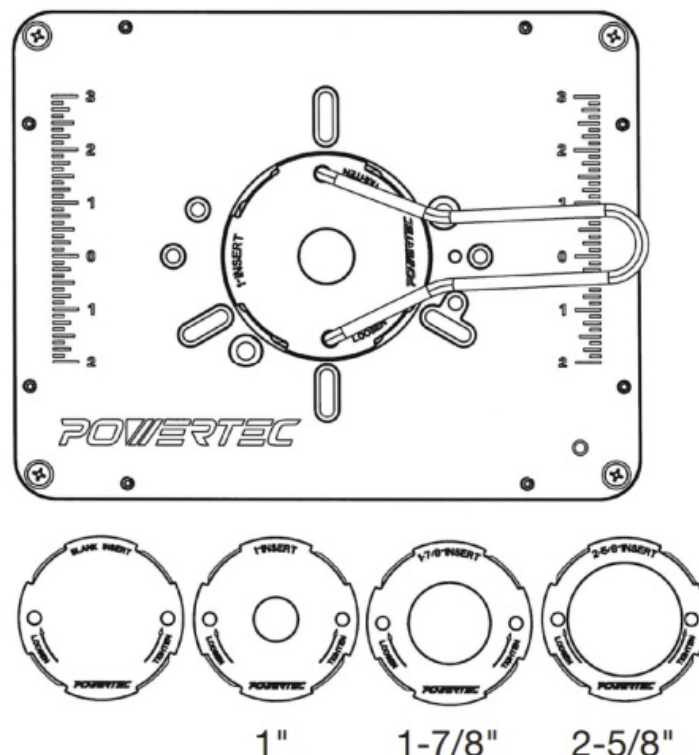**IMPORTANT**: Store router sub-base in a convenient place.

It will be needed when removing the router from the router table and during handling.

CHANGING REDUCING RINGS

There are four Reducing Rings (CC) for flexibility in matching the size of the insert opening to the diameter of the router bit in use:

1. A solid insert, to be bored for any custom size
2. An insert with a 1″ opening
3. An insert with a 1-7/8″ opening
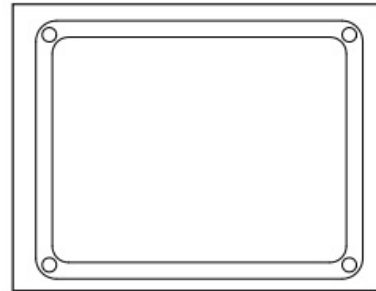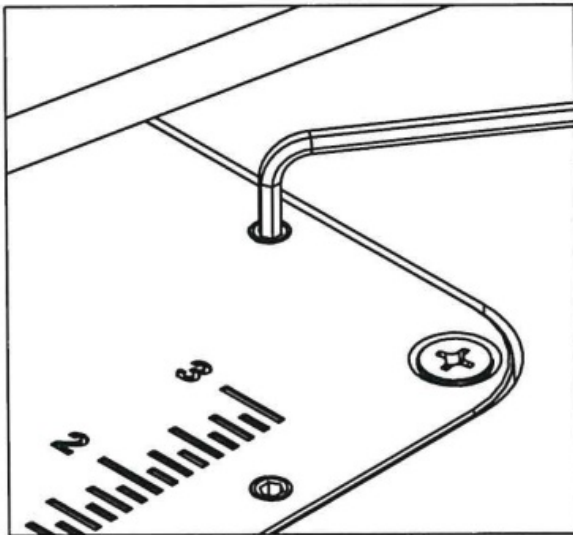4. An insert with a 2-5/8″ opening.

Simply drop one Reducing Ring (CC) into the Aluminum Insert (AA) opening and attach using the Ring Wrench (DD) provided.

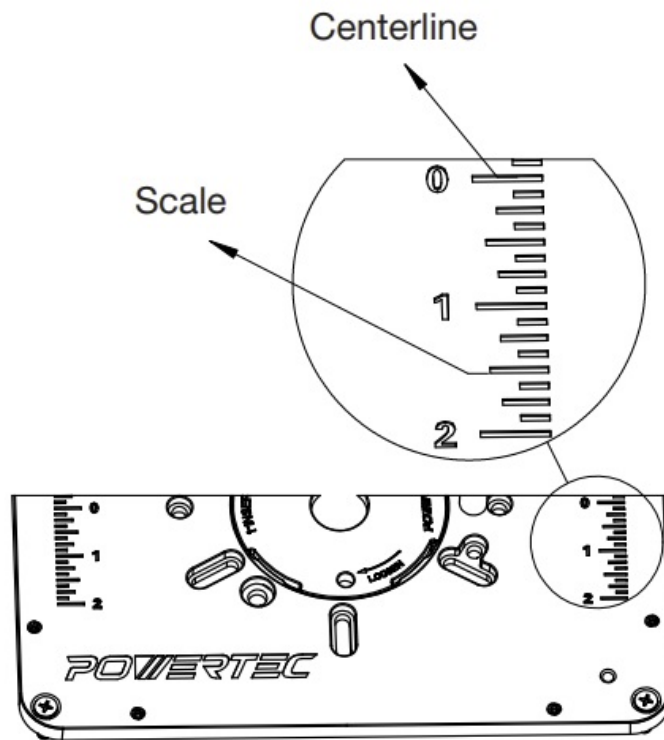## ADJUST THE TOP AND BOTTOM FLATNESS OF THE ROUTER PLATE AND ROUTER TABLE

Please note: The depth of router table insert openings vary, and two different lengths of leveling screws are provided.

- Depending on your table's insert opening depth, use the set that best fits your application (EE or FF).
- If your router table comes with levelers in the insert opening, level your new Powertec router plate following the instructions that came with your table.
- Once level, use the included 3mm hex wrench to fine tune the fit by adjusting the 8 levelling screws on the side. When level, fasten the plate using the 4 locking screws (BB).

CENTERLINE SCALE

The router plate features an accurately engraved center scale, in 1/8″ increments. The centerline allows the fence to be quickly positioned on the center of the bit and the fence can be moved 3″ past center and 2″ in front of center, providing 5″ of precise fence movement
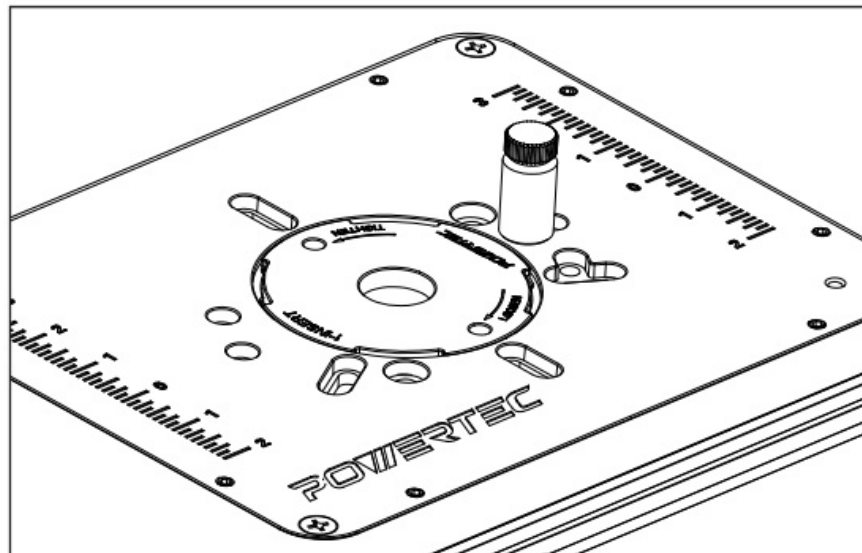
STARTING PIN

To use the Starting Pin (GG), begin with your workpiece touching the pin, but not in contact with the router bit. Slowly pivot the workpiece into the bit until the workpiece makes contact with the bit guide bearing. Always feed the workpiece so the router bit rotates against (not with) the feed direction. With the workpiece in solid contact with the guide bearing, ease the workpiece off of the starting pin and feed the workpiece against the guide bearing.

WARNING

Use the Starting Pin (GG) when routing along curved edges and only with router bits that have a guide bearing. When routing along straight edges, always use the fence (not included).
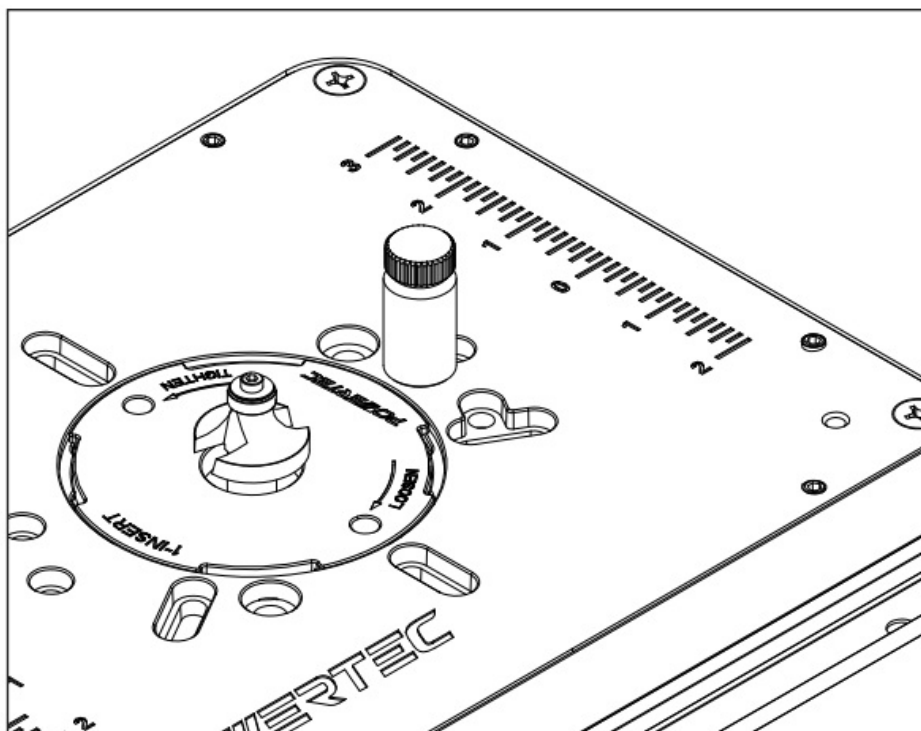
- **Step 1**

  Lock the Starting Pin (GG) into the threaded hole close to the opening of the insert ring.

- **Step 2**

  When cutting begins, start the router motor, place the workpiece in contact with the Starting Pin (GG), then slowly rotate and move it until it comes into contact with the bearing.

NOTE:

When using the Starting Pin (GG) to cut curved planks, please also use router bits with a guide bearing. When cutting straight planks, please use with fence.

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.
- Keep the Insert Plate 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 Insert Plate. 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.

Southern Technologies, LLC, Chicago, IL 60606

FAQ

Q: Can I use the Insert Plate with any router model?
A: No, refer to the Router Hole Patterns to ensure compatibility with your specific router model.

Q: What safety precautions should I take when using the Insert Plate?
A: Always work in a well-ventilated area, wear proper safety equipment, and follow all safety guidelines outlined in the manual.

Documents / Resources

POWERTECH 71850 Router Table Insert Plate [pdf] Instruction Manual
71850, 71850 Router Table Insert Plate, Router Table Insert Plate, Table Insert Plate, Insert Plate

References

- POWERTEC Perfect Your Projects
- User Manual

🏷 71850, 71850 Router Table Insert Plate, Insert Plate, POWERTECH, Router Table Insert Plate, Table Insert Plate

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