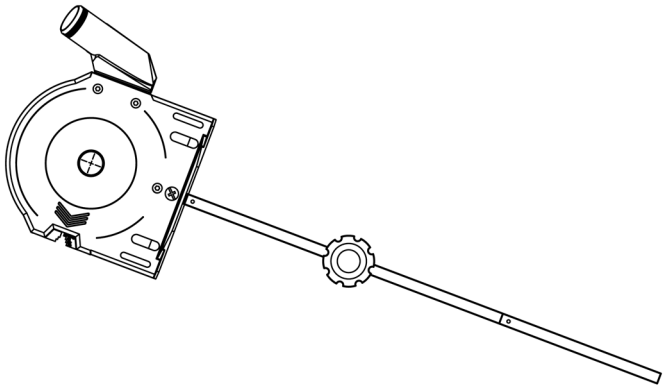
INSTRUCTION SHEET **Model No. 72243**

POWERTEC®

Router Circle Cutting Jig

QUESTION...
1•847•780•6120



⚠WARNING

For your own safety, read and understand all warnings and operating instructions before using any tool or equipment.

- Always keep hands clear of blade, cutter, sanding disc/belt.
- Before making adjustments to the Router Circle Cutting Jig, turn off the power, allow the router to come to a complete stop and unplug the machine.
- Ensure screws and knobs are tightened before using.
- To avoid accidental start-up—Make sure machine is in the "OFF" position before plugging in.

⚠WARNING

Some dust created by power sanding, sawing, grinding, drilling and other construction activities can expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Some examples of these chemicals are:

Lead from lead-based paints.
Crystalline silica from bricks and cement and other masonry products.
Arsenic and chromium from chemically-treated lumber.

NOTE: *Your risk from these exposures varies, depending on how often you do this type of work. 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.*

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

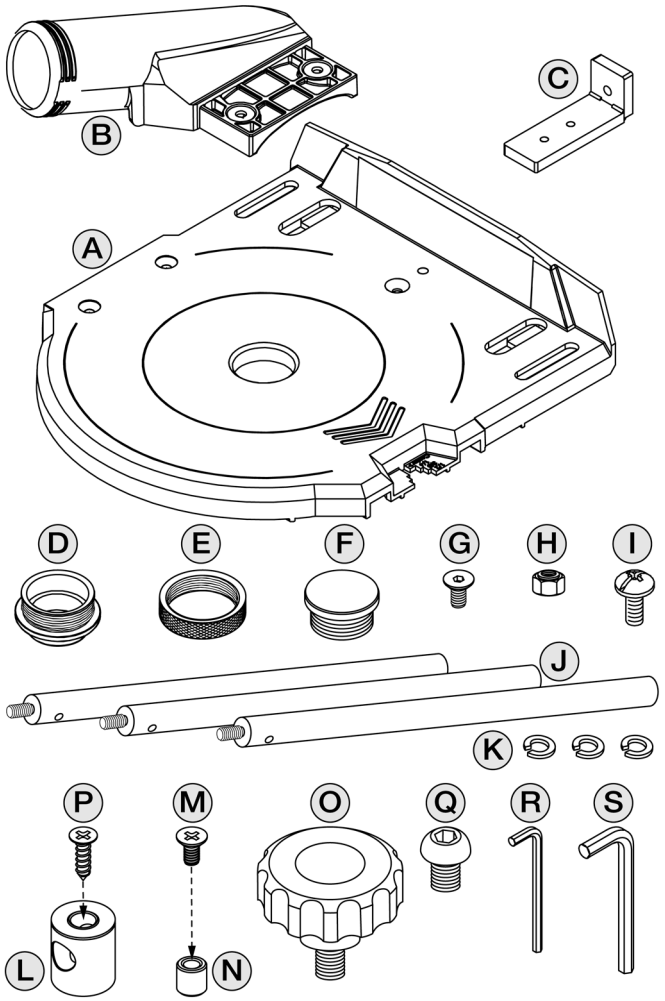
CONTENTS

Examine carton for shipping damage. Check immediately whether all parts and accessories are included. If anything is missing or broken, contact your retailer or call **847-780-6120.**

NOTE: *Carefully remove all contents from shipping carton. The shipping carton contains:*

ITEM	DESCRIPTION	QTY
A	Jig Base Plate	1
B	Dust Port	1
C	Connecting Bracket	1
D	1" Bushing	1
E	Lock Nut	1
F	Cross Hair Guide	1
G	Flat Head Socket Screw (M4)	3
H	Nylon Nut (M4)	2
I	Truss Head Screw (M4)	1
J	Connecting Rod (8.27" / 210 mm)	3
K	Spring Washer (M5)	3
L	Positioning Seat	1
M	Flat Head Screw #8-32 UNC x 3/8	1
N	Centering Column, 1/4"	1
O	Positioning Lock Knob	1
P	Wood Screw #6 x 1/2"	1
Q	Positioning Socket Screw (M12)	1
R	2.5mm Hex Wrench	1
S	8mm Hex Wrench	1

Figure 1



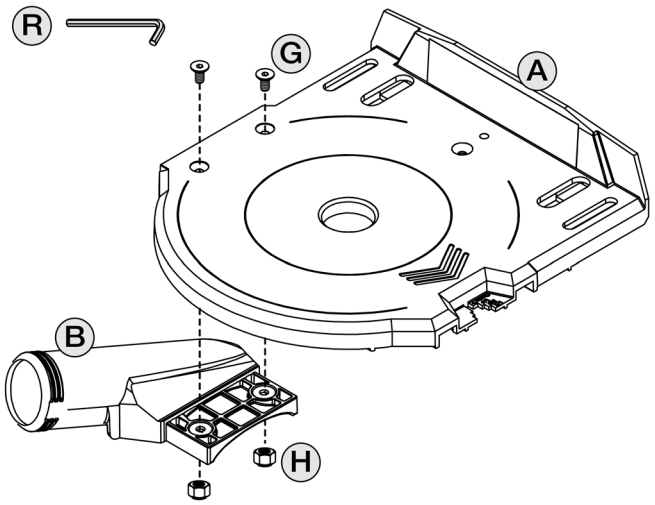
ASSEMBLY

Tools needed: Phillips® screwdriver (not included).

Attach Dust Port to Plate:

- Insert M4 Nuts (H) into holes in bottom of Dust Port (B).
- Insert M4 Flat Head Socket Screws (G) from top into holes in Jig Base Plate (A).
- Thread Screws (G) through Dust Port (B).
- Tighten using 2.5mm Hex Wrench (R).

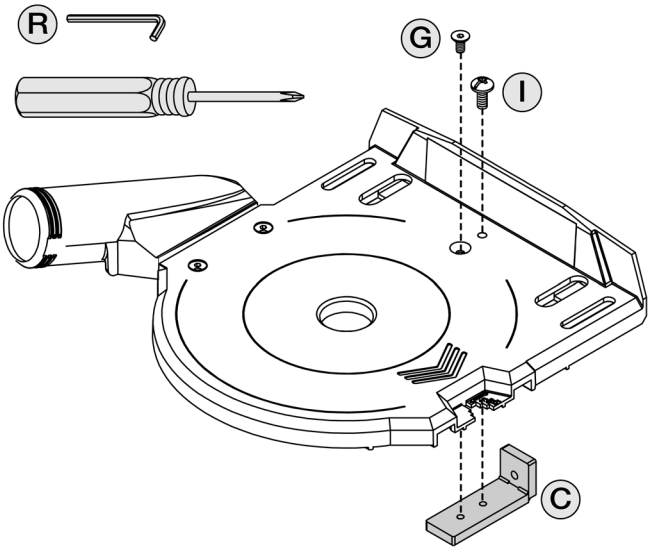
Figure 2



Attach Connecting Bracket:

- Attach Connecting Bracket (C) to Base Plate (A) using an M4 Flat Head Socket Screw (G) and M4 Truss Head Screw (I).
- Tighten the screws using 2.5mm Hex Wrench (R), and Phillips screwdriver (not included).

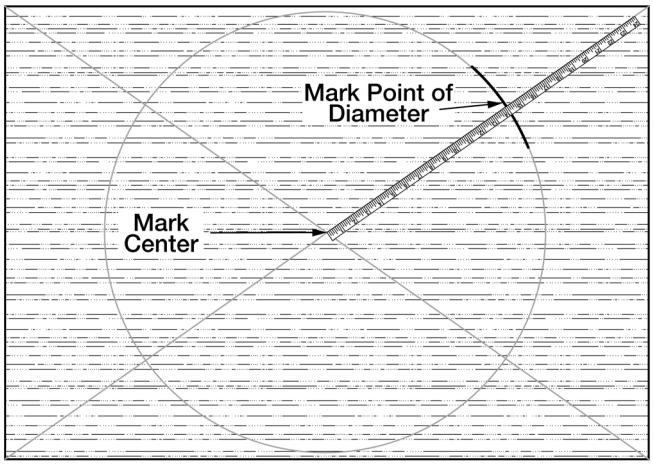
Figure 3



Prepare the Workpiece:

- Mark center on the bottom side of workpiece to be routed.
- Secure each corner into place with clamp (not included).
- Mark at least one point of the circle diameter.

Figure 4



Install Positioning Seat (L):

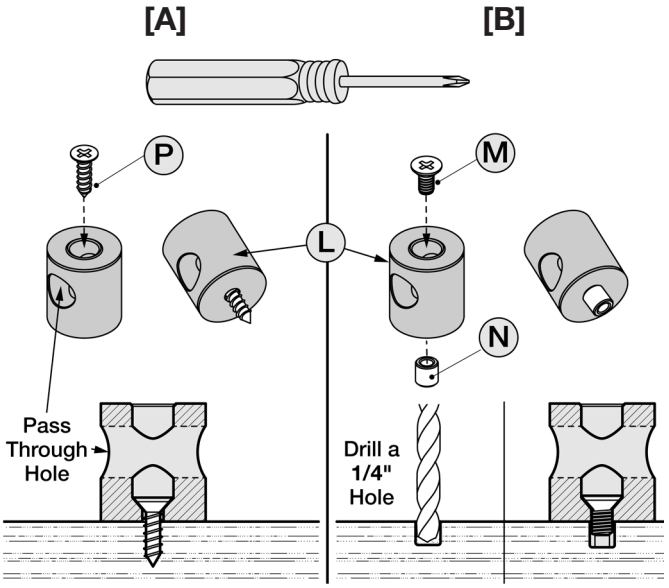
- Drop either the Wood Screw (P) or Countersunk Flat Head Screw (M) into the Positioning Seat (L).
- Ensure the pass-through hole is facing the router.
- Always secure Positioning Seat (L) to the bottom side of the workpiece so as not to mar the top of the workpiece.

[A] If Using Wood Screw (P):
- Position this assembly over center mark on workpiece.
- Anchor it using a Phillips screwdriver (not included).
- Do not over tighten.

[B] If Using Countersunk Flat Head Screw (M):
- First drill a pilot hole using a 1/4" drill bit.
- Assemble Centering Column (N) onto Countersunk Flat Head Screw (M) using a Phillips screwdriver (not included) to tighten in place and lightly hammer-tap (if needed) into workpiece.

[C] For Both Positions:
- Twist Positioning Seat (L) to ensure it turns freely while still secure to the workpiece:

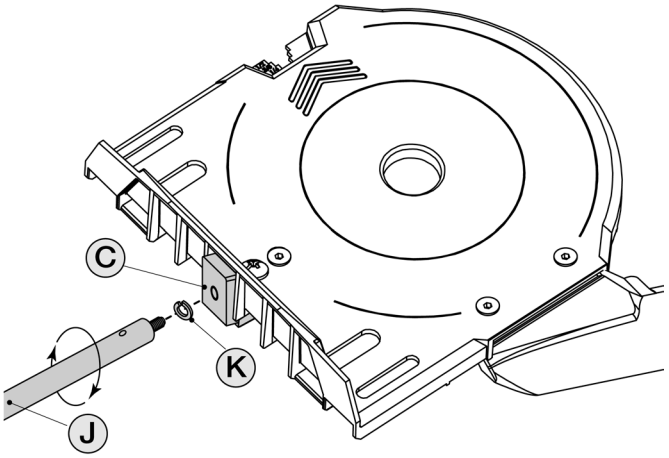
Figure 5



Attach the Connecting Rods:

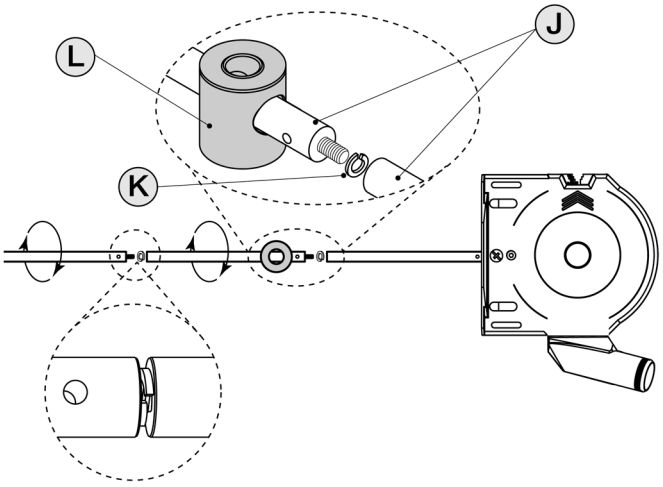
- Place one Spring Washer (K) onto the threaded end of Connecting Rod (J).
- Align and twist one Connecting Rod (J) into center hole of Connection Bracket (C).

Figure 6



- See Figure 7. Run the next Connecting Rod (J) through Positioning Seat (L). Place one Spring Washer (K) onto threaded end and twist to connect to first Connecting Rod.
- Add the third Connecting Rod and Spring Washer if additional length is needed.
- Each Connecting Rod is 8.27" / 210mm in length (including 10 mm thread). 23.6" / 600mm when all three rods are used.

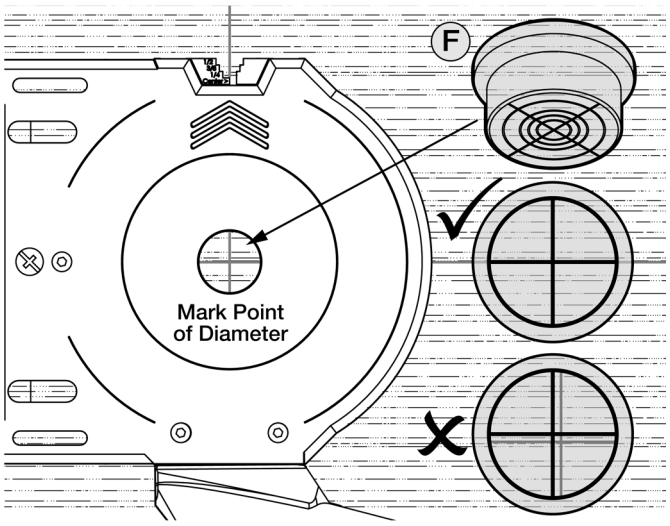
Figure 7



Set the Rod Length:

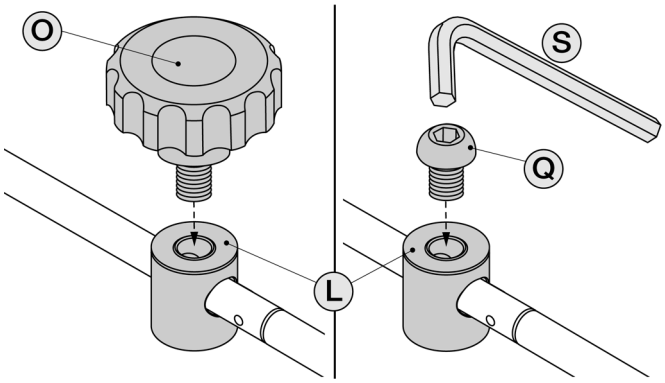
- (See Figure 4) When setting the rod length, mark or draw a line on workpiece for the diameter cut needed.
- Inserting Clear Cross Hair Guide (F) into center hole on Jig Base Plate.
- Align Cross Hairs of the Guide with marks previously drawn on workpiece.
- When aligned, remove Cross Hair Guide and set router with installed Guide Bushing in place. (See "PREPARE THE ROUTER" on Page 4).

Figure 8



- When the rod length is set, thread Positioning Lock Knob (O), or use 8mm Hex Wrench (S) to thread Round Head Positioning Screw (Q) in Positioning Seat. Tighten to secure the rod length.

Figure 9

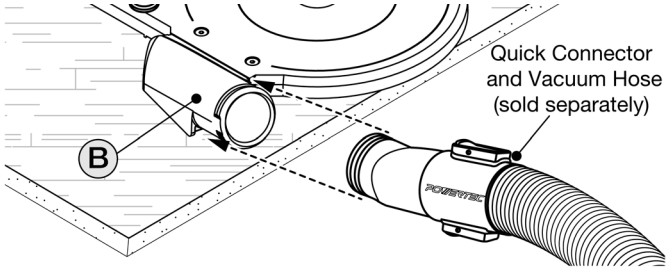


Dust Port:

When set up is complete, place the Jig with workpiece onto a worktable. Connect a vacuum hose to the dust port.

- Because the vacuum hose (sold separately) will have pulling force, user may feel some suction resistance while in use.
- There are quick-release threads on the end Dust Port (B) designed for fast on and off use. A quick release hose setup is ideal for this purpose such as ***POWERTEC*** **70355 Hose Kit** (sold separately).

Figure 10



PREPARE THE ROUTER (Not included)

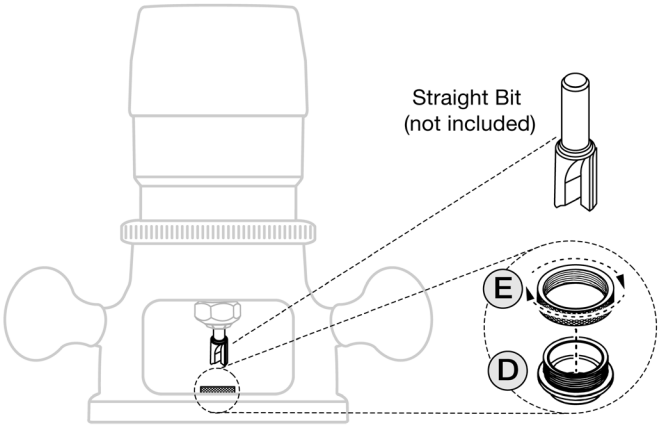
The 72243 Router Circle Cutting Jig works with router bases no larger than 6-1/2".

⚠WARNING

Risk of accidental startup. Turn off the power, and unplug the router before installation.

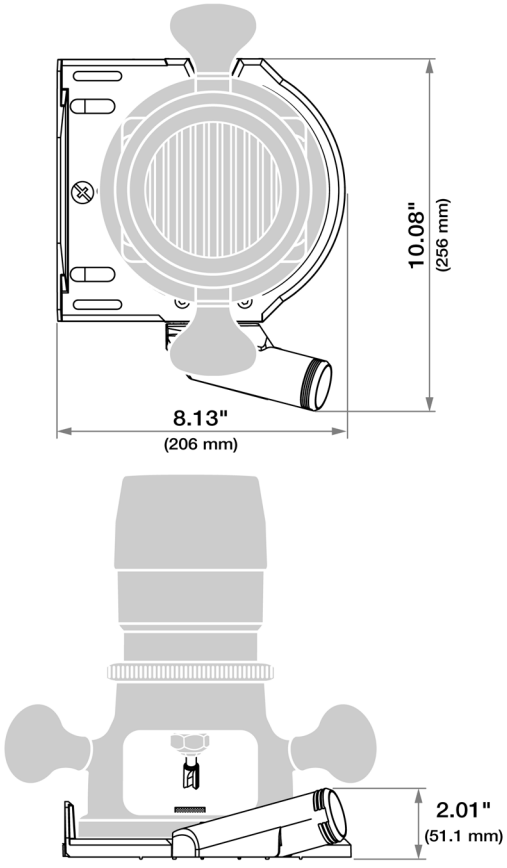
- Insert 1" OD Guide Bushing (D) into Router Base.
- Hand twist to secure Lock Nut (E) onto 1" OD Guide Bushing (D)—tighten.
- Insert and secure router bit (not included) into properly sized collet on router.
- Set bit depth required for project.
- Carefully test fit router onto assembled Jig by aligning Guide Bushing with hole in router base.

Figure 11



NOTE: Some routers may require a router base adaptor to fit the 1" Guide Busing included with this Circle Cutting Jig. There are many on the market suitable for this product.

Figure 12

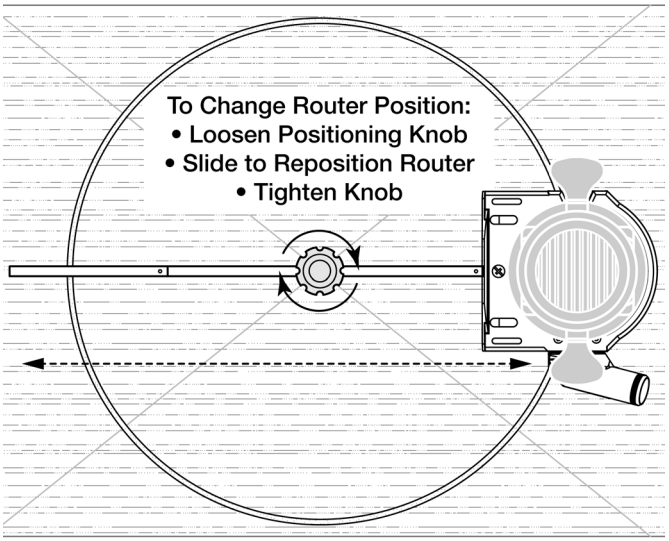


OPERATION: PREPARE FOR ROUTING

The ***POWERTEC*** **72243 Circle Cutting Jig** has the capacity to make circle cuts from 11" to 55" in diameter.

- Measure by diameter not radius.
- Always secure Positioning Seat (L) to the bottom side of the workpiece so as not to mar the top of the workpiece.
- Follow the router bit manufacturer's instructions. A straight bit is recommended for circle cutting.
- Ensure the workpiece is secured to a support board when cutting through.
- Always make a test cut on a scrap piece before making the final circle cut.
- For best results—Make multiple passes in increments of 1/4" or 5/16" until desired depth of cut is reached. Do not force the router while cutting.
- If finishing (sanding or routing a decorative edge) the circle edge, leave 1/16" to 1/8" to finish stock on the edge.

Figure 13



MAINTENANCE

⚠WARNING

When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage.

⚠WARNING

Keep the Router Circle Cutting Jig 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 Router Circle Cutting Jig. 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.