Woodpeckers®

ELLIPSE JIG

O W N E R ' S M A N U A L

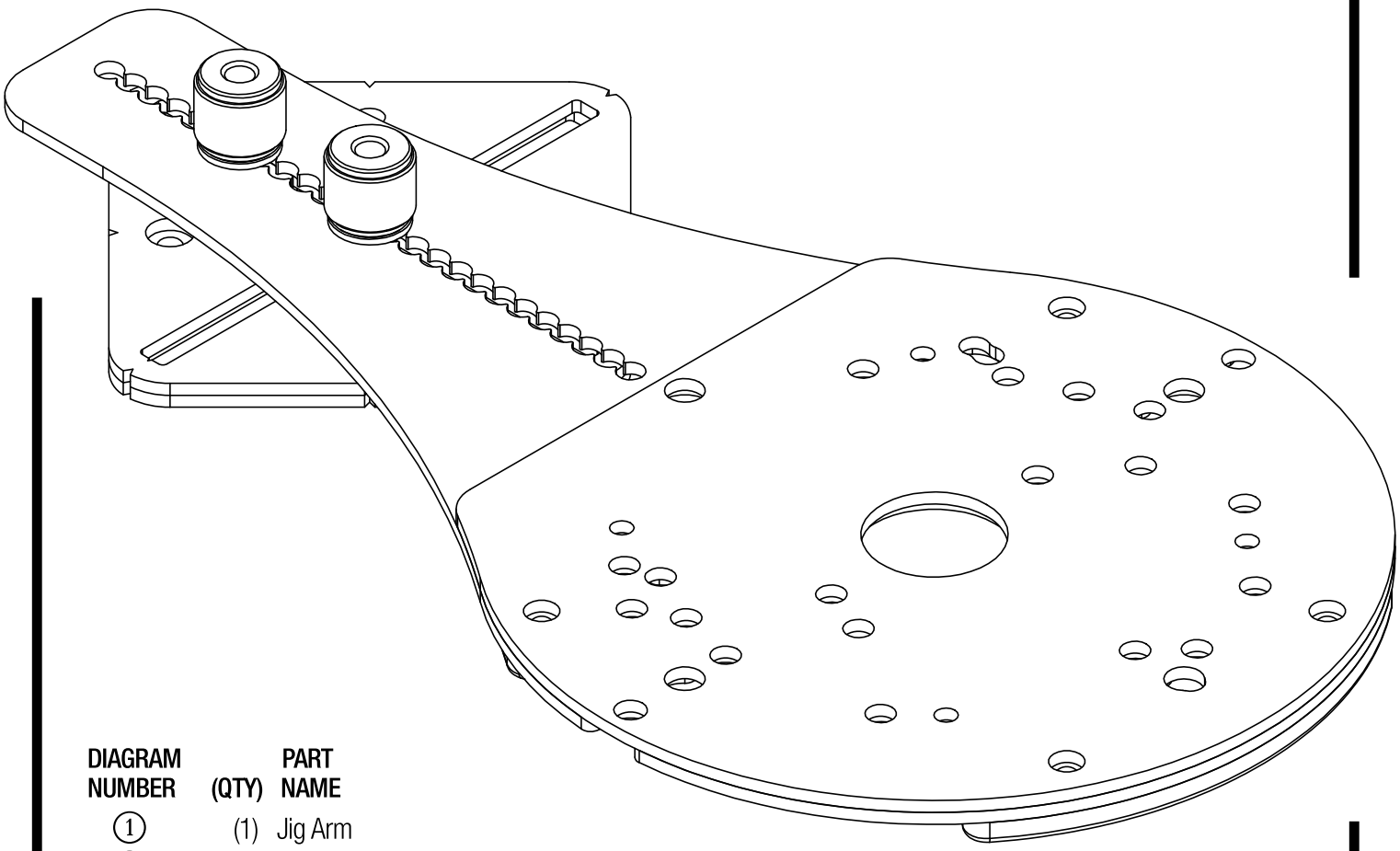


DIAGRAM NUMBER	(QTY)	PART NAME
①	(1)	Jig Arm
②	(1)	Slotted Pivot Base
③	(2)	T-Bolts
④	(2)	Washers
⑤	(2)	Knurled Knobs
⑥	(2)	Wood Screws
⑦	(1)	Circle Pivot Pin

Thank you for your purchase of the ***Woodpeckers Ellipse Jig.*** Precision-machined and carefully inspected in our Strongsville, Ohio, facility, the Ellipse Jig provides a fast, accurate way to guide your router through perfect elliptical and circular cuts. Its durable zinc-plated steel construction and precise adjustment system make it ideal for creating bowls, trays, picture frames, plaques, and countless other projects.

Scan the QR code above to watch the video or visit woodpeck.com under the video tab towards the bottom of the product page.

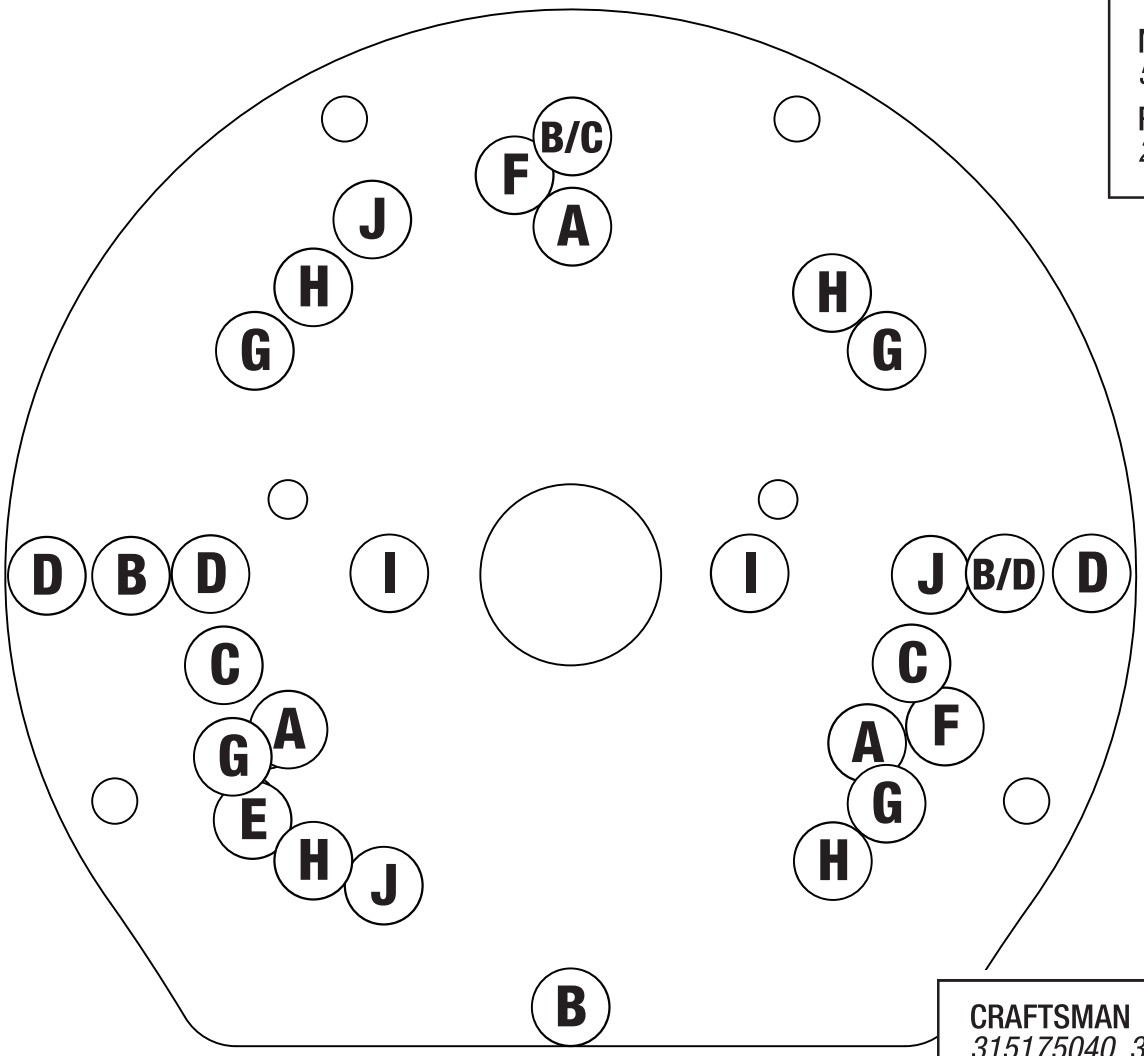
If you think you're missing anything, email us at mailroom@woodpeck.com.
Or, check the product page under the "Manuals" tab for the latest version of this manual.
You can also call us at 800-752-0725 from 9:00 a.m. to 4:00 p.m. ET Monday - Friday.

I. MOUNTING YOUR ROUTER TO THE BASE

A. Identify the correct ① Jig Arm mounting holes for your router based on the table below. ***FIGURE A.***

B. Align the mounting holes to the base of your router and install the included machine screws.

FIGURE A



A
MAKITA
1100, 1101
PORTER CABLE
100, 690, 890, 7529, 8529
HITACHI
KM12VC
DEWALT
616, 618
BOSCH
1617 (Fixed), 1618, MCR23
MILWAUKEE
5615 thru 5624, 2823-20
RIGID
2200, 2930

B
PORTER CABLE
7518, 7519
TRITON
TRA001, M0F001
MILWAUKEE
5625

C
DEWALT
621, 620
ELU
177
FEIN
FT1800

D
FESTOOL
1400

E
FESTOOL
2200

F
CRAFTSMAN
315175040, 315175050, 315175070

G
CRAFTSMAN
315275000
RYOBI
R161, R162, R163, RE170, RE180

H
MAKITA
RP2301FC, RP1800, GPR01Z

I
HITACHI
MV8, TR12

J
DEWALT
625

II. SETTING UP THE CUT

A. Mark the center of your circle, arc, or ellipse.

B. Ellipses and elliptical arcs.

1. Lay out your major (long) and minor (short) axes on the workpiece. ***FIGURE C***.
2. Place the ② Slotted Pivot Base on your workpiece. Align the notches in the base to the crosshairs, ensuring the crosshairs are visible in the slots.
3. Mark and pre-drill two 3/32" pilot holes at the two countersunk holes.
4. Position one ③ T-Bolt in each slot, then re-align the ② Slotted Pivot Base to your pre-drilled holes. Ensure the T-Bolts are fully seated in the slots underneath the base. ***FIGURE C-1***.
5. Screw the ② Base down to your workpiece using the included Wood Screws.
6. Select the ① Jig Arm holes corresponding to the desired major- and minor-axis radii. ***FIGURE B***. The distance between the T-bolt centers must equal the major-axis radius minus the minor-axis radius.

NOTE The Ellipse Jig allows a maximum difference of 2" and a minimum of 1".

7. Place the *T-Bolt A* at the center of the ellipse with the shoulder perpendicular to the major axis. Position *T-Bolt B* along the major axis. ***FIGURE C-1***.
8. With your router installed, place the ① Jig Arm over the base. Guide *T-Bolt A* into the Major Axis hole setting and *T-Bolt B* into the Minor Axis hole setting.
9. Install a washer and a Knurled Knob onto the stem of each the T-Bolt and tighten. ***FIGURE C-2***.
10. With the router unplugged and the bit raised clear of the workpiece, rotate the jig through the entire cutting path to verify alignment and safe operation.

NOTE The radius settings define the path of the router bit centerline. Account for the cutter radius when determining the finished edge.

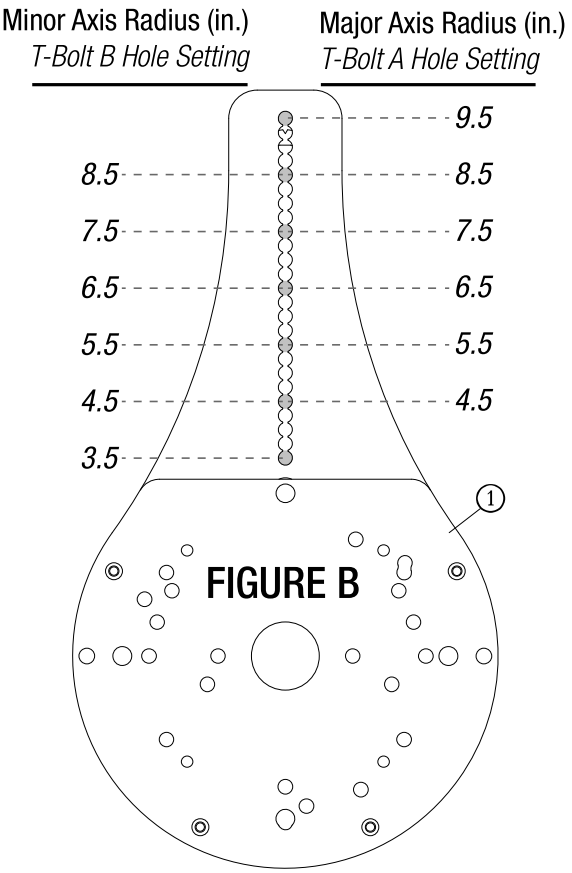


FIGURE B

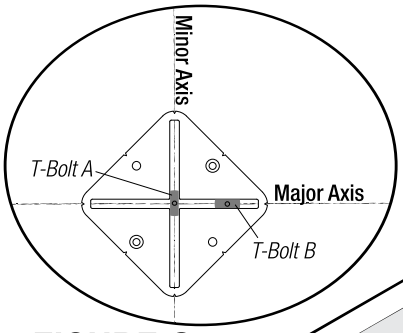


FIGURE C-1

FIGURE C

FIGURE C-2

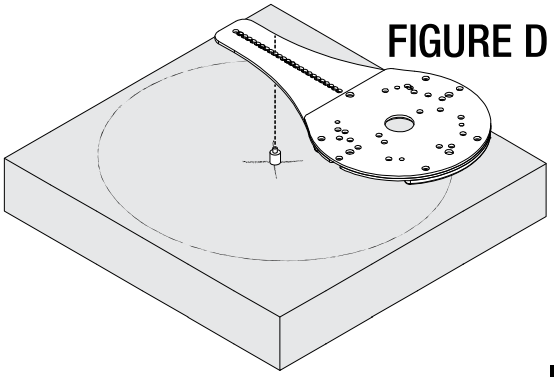


FIGURE D

C. Circles and arcs.

1. Drill a 1/8" pilot hole in the center of your circle.
2. Drop the ⑦ Circle Pivot Pin in the pilot hole (light hammering may be required).
3. Align your desired circle radius hole and drop the Jig Arm onto the Circle Pivot Pin . ***FIGURE D***.

III. MAKING THE CUT

A. Ensure your workpiece is properly secured to the worksurface. If making a through-cut, ensure both the workpiece and any off-cuts will not move throughout the entire cutting operation.

B. As with all routing operations, take shallow passes until you reach your desired depth. ***FIGURE E***. While you can make through-cuts using a spoilboard beneath the workpiece, we recommend routing most of the way, removing the waste at the band saw, then flush trimming the edge.

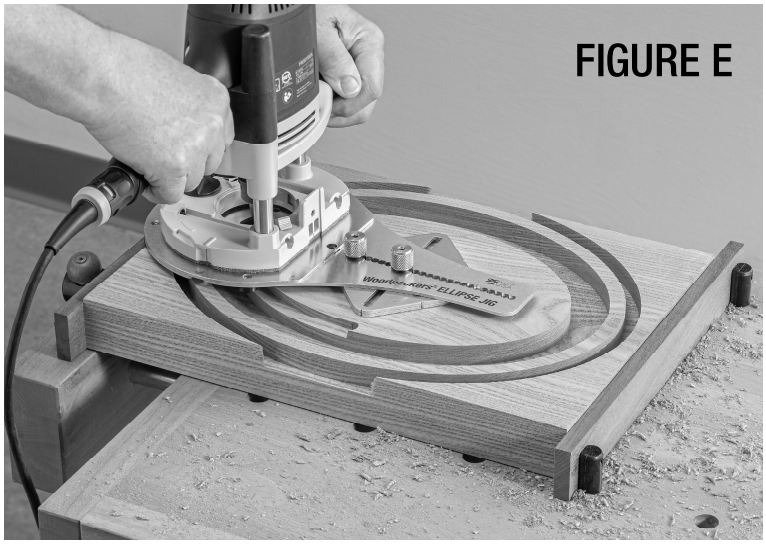
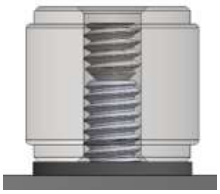


FIGURE E

PRO TIP

The Knurled Knobs feature a set screw that allows you to dial in your preferred drag on the Ellipse Jig.



Using a 1/8" Hex Key, back out the set screws just a bit. Tighten the Knurled Knobs until you reach your desired drag setting. Hold the Knurled Knobs in place and tighten the set screws until they bottom out on the T-Bolt stem.

WARNING! To reduce the risk of injury keep hands away from moving parts. Refer to your power tool manual for proper setup and use.

WARNING! To reduce the risk of injury, wear safety goggles or glasses with side shields, ear protection & a dust mask.

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