

## RTJ400 OPERATION

## CHAPTER 6

## The Leigh eBush

## Watch the Online Instructional Video

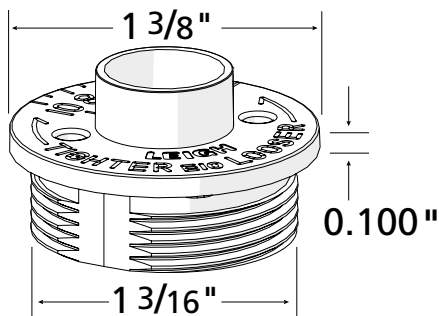
The online video will reduce your learning time dramatically! Stream to your smart phone or tablet to use in your shop as a visual reference. Find the video in the Instructional Videos section of the Support menu at [Leightools.com](http://Leightools.com).



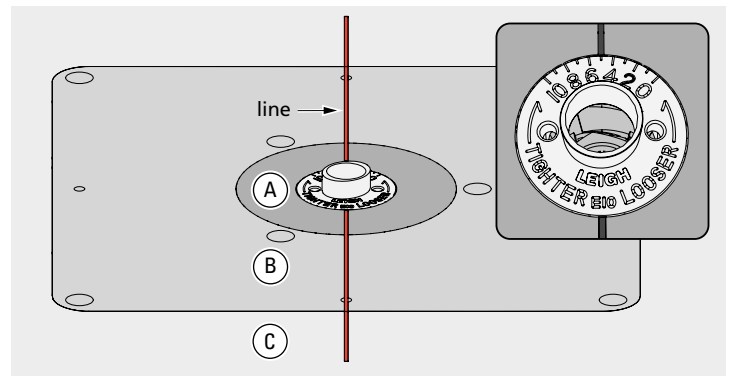
**Note: Normal tolerances with bits, guide bushings and router runout will generally produce poor fitting joints. Leigh elliptical guide bushings (e7 and e10) solve this problem.**

Patents for all Leigh elliptical guide bushings: U.S. 8,256,475 UK GB2443974 Canada Patent No. 2,611,232

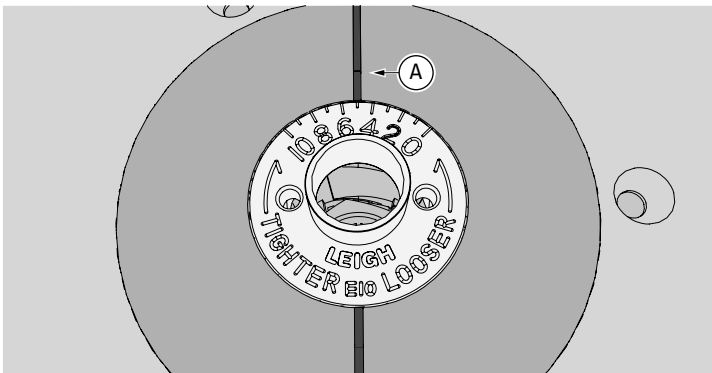
## Joint Fit Adjustment



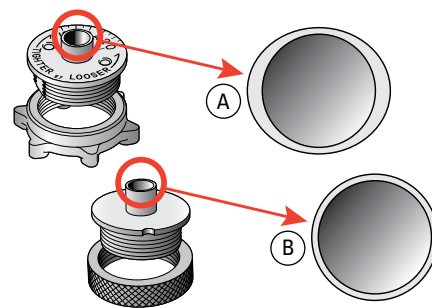
**6-1** The Leigh eBush system is designed around the decades-old Porter Cable/Black & Decker industry standard. Therefore you will likely need to adapt your router table or router table insert plate to accept a Leigh eBush with an insert ring that has a  $1\frac{3}{8}$ " diameter counter bore. See page 6 for details. Check with your router table or insert plate manufacturer as to what adaptation is required.



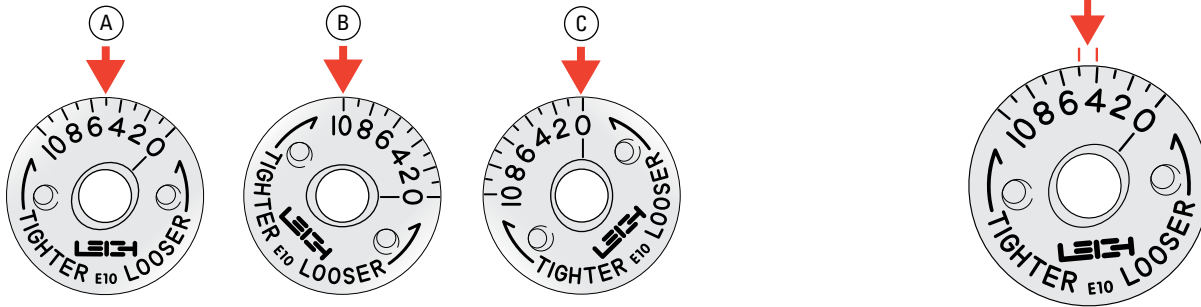
**6-2** Draw a line with a permanent pen on the router table, centered on the guide bushing opening at 12 o'clock and 6 o'clock (shown in red for clarity only). This will ensure correct orientation of the eBush to the insert ring (A), the insert plate (B), and the router table (C).



**6-3** All settings for the eBush will be aligned to the line (A) you've drawn on the router table. The line will also help guide the RTJ400.



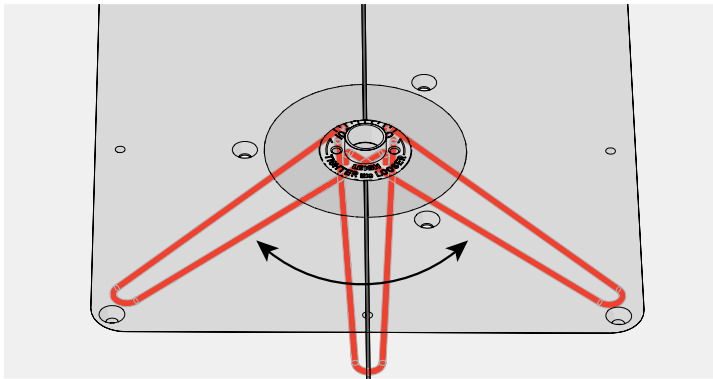
**6-4** The Leigh eBush barrel is elliptical (A), unlike plain circular template guide bushings (B). When rotated, the effective diameter of the barrel changes, allowing fit adjustments as small as  $0.001$ " [ $0.025\text{mm}$ ]. The e10 eBush is included with the RTJ400.



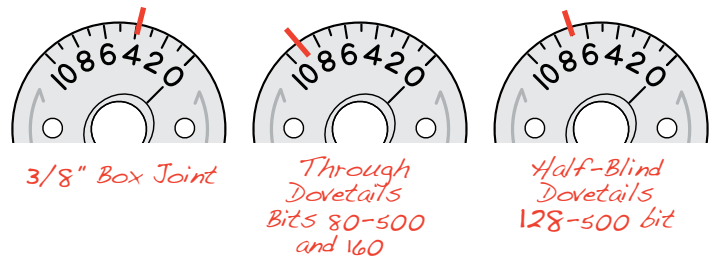
**6-5 All routing starts with the eBush in the No.5 position**

Ⓐ. Turning the eBush toward the No.10 position Ⓑ results in a tighter fit because the guide bushing is now wider. Turning the eBush toward the No.0 position Ⓒ results in a looser fit.

**6-6** One division of the eBush changes the joint glue line by 0.002" [0.05mm]. A perfect fit will be established with one or two test cuts.



**6-7** Adjust the eBush with the pin wrench. Markings on the eBush indicate which way to turn it for a looser or tighter fit. **Remember, every time you adjust the eBush you must re-tighten the eBush nut.**



**6-8** As shown in the examples above, each chapter provides a place to mark your perfect eBush setting, for easy repeatability the next time. ■