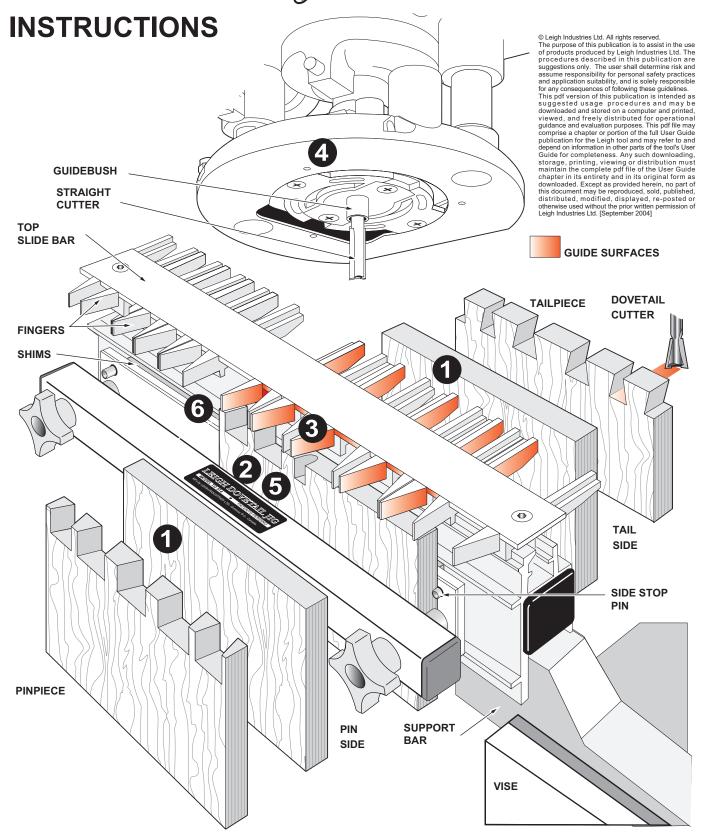
DOVIETAIL JIGS

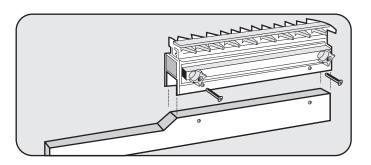
## TD 514 TD 514-L



Precise through dovetails have been a hallmark of fine cabinet-makers for generations. With the unique TD514 Leigh Dovetail Jig, you too will master this most attractive of joints.

### SUPPORT BAR

Make up and mount support bar (not suppplied) as shown before using the jig. Never mount the jig directly in the



### PREPARE ROUTER

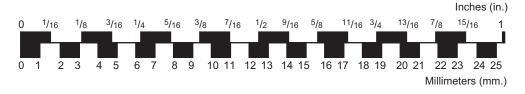
Select cutter/guidebush combination from chart. Fit guidebush concentrically with cutter.

Pinpiece Thickness	Straight Cutter Dia.	Tailpiece Thickness	Dovetail Cutter	Guidebush Dia.	Approx. No. of Shims
UP TO 3/8"	<sup>5</sup> /16"	UP TO 1"	<sup>3</sup> /8" x 14° <b>#110</b>	7/16"	19-20**
UP TO <sup>1</sup> /2"			<sup>1</sup> /2" x 14° <b>#120</b>		19-20
UP TO 3/4"	1 <sub>/2"</sub> <b>#160</b>		<sup>3</sup> /4" x 14° <b>#130</b>	5/8" *	11-12

<sup>\*</sup>Guide fingers must be at least

Actual Shims:

#### METRIC CONVERSION

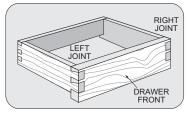


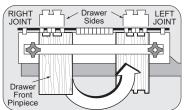
Make up an insert 1/4" packing piece for pin side as illustrated.



#### SPECIAL CASE- 3/8" PINS SPECIAL CASE- ASYMMETRICAL JOINTS

Set a similar layout of fingers at each end of the jig. In the example shown both drawer front and sides are mounted with the top edge to the stop pin at each end of the jig. Joints at the rear of the drawer may be different again.



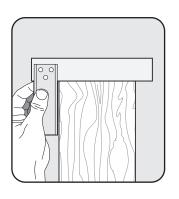


<sup>&</sup>lt;sup>3</sup>/<sub>16</sub>" apart. \*\*Add <sup>1</sup>/<sub>4</sub>" packing piece (see special case).

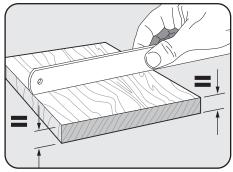
### **GENERAL INSTRUCTIONS**

Follow these instructions in sequence and refer each step to the illustration above. Repeat for each cutter guidebush combination.

# **JOINT PIECES**

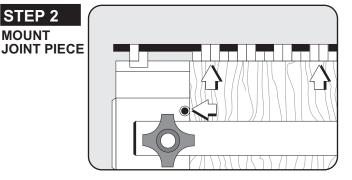






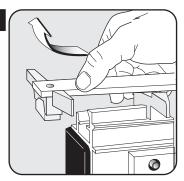
Flat and even thickness.

### STEP 2 **MOUNT**

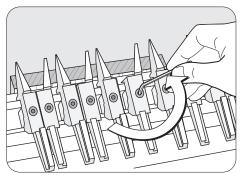


Fit joint pieces flush under fingers and against side stop pin, face sides away from jig body.

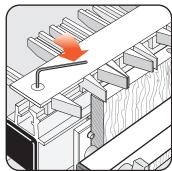
## STEP 3 ARRANGE FINGERS



Loosen the two top slide bar screws and remove slide bar as shown. Do not remove screws.



Loosen finger screws 180 , arrange fingers to required joint layout by eye and re-tighten. Ensure no dust is trapped between fingers and rail.



IMPORTANT. Replace top slide bar. Do not overtighten any screws.

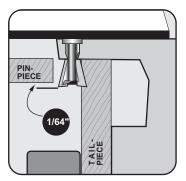
STEP 4
SET DEPTH
OF CUT

Prepare the router (see above). Familiarize yourself with the router and safety instructions supplied with the tool.

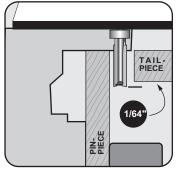




CAUTION: Always disconnect the router before changing or adjusting cutters. Always wear approved eye protection when operating the router.

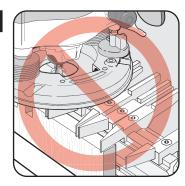


Set dovetail cutter to thickness of pinpiece plus 1/64".



Set straight cutter to thickness of tailpiece plus 1/64" and not more than 1" deep.

## STEP 5 CUT TEST JOINT



Top slide bar must be in place when routing

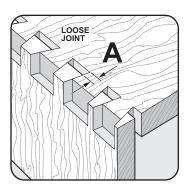


Keep router flat down on top surface of jig.

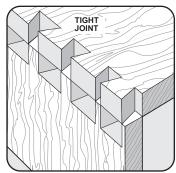
Work the guidebush along the guide faces and ensure that all waste is removed from joint sockets before removing jointpieces from jig.

### STEP 6

ADJUST JOINT TENSION Adjustment of shims does not affect tail size, each shim is 1/64" thick and will alter pin width by .008". Repeat steps 5 and 6 until joint fits, cutting only new pins for re-testing. For each cutter/guidebush combination record on the chart above the number of shims remaining in the jig. Recheck adjustment when using new or reground cutters. Joint tension will also vary with differing hardness of wood.



Remove shims equal in thickness to joint gap **A** to form larger pins.



Add shims to form smaller pins.

## **Customer Support**

Our Commitment to You Leigh Industries takes pride in its commitment to providing excellence in customer service and support. This user guide is designed to provide you with the answers to any questions you have. However, if you require assistance, please feel free to contact our technical support staff or a distributor listed below.

Manufacturer: Canada/USA

TEL/FAX

Customer Service and Technical Support

1-800-267-8761 (Canada) 1-800-267-8735 (USA) EMAIL/WEB

Customer Service

customerservice@leevalley.com

NOTE: Email can be useful, but technical queries usually raise queries from us. A phone call is the quickest and most convenient way to get queries answered, either directly to Lee Valley (toll free in N. America) or to your

national distributor. - Thanks!

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