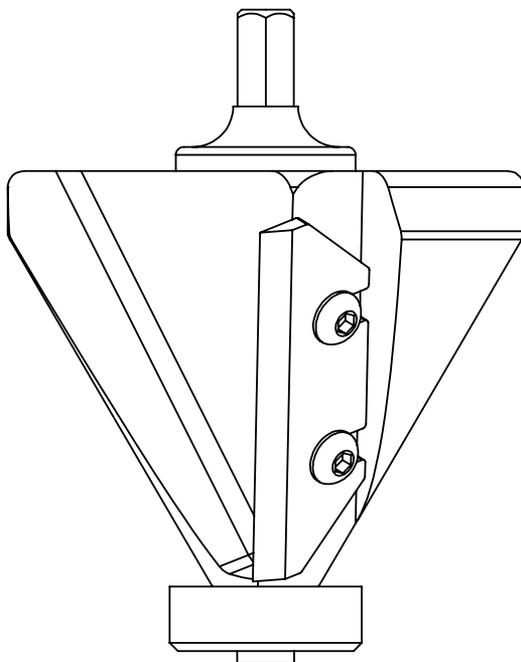


LUMBERJACK TOOLS®

made in usa



USER MANUAL
COUNTERSINK BIT SET
(60° Mortise Profile)

FOR USE WITH COMMERCIAL & INDUSTRIAL SERIES TENON CUTTERS

Safe, Fast & Easy to Use™



MODEL: CSK4000

All Rights Reserved.
© 2023 Lumberjack Tools
www.lumberjacktools.com
Email: info@lumberjacktools.com
Phone: 715-514-0319

ABOUT YOUR PRODUCT

Thank you for purchasing our Countersink Bit Set! The Countersink Bit is designed to taper mortise holes 60° to match the shoulder profile cut by Commercial and Industrial Series Tenon Cutters. This results in a stronger joint and a more finished and professional look. The tool body is machined from a solid aluminum billet. The blade is laser cut, heat treated, and precision ground to provide years of service. The shank is machined from alloy steel to withstand the stresses of cutting.



Our lifetime guarantee covers the tool body and shank. The blade is covered for breakage for 90 days from the date of purchase under normal working conditions. Blades will dull faster when cutting hardwoods versus softwoods (peeled or unpeeled). Soil and other abrasive substances will reduce blade life and are not covered under this warranty. When making a claim, you must show proof of purchase from an authorized distributor. This guarantee is valid only to the original buyer, not for tools sold secondhand, used, or sold "as is" to a second party.

WHAT VOIDS WARRANTY

In order to keep our lifetime and 90 day warranty you must **AVOID** the following actions:

- Operating the tool in a lathe
- Operating the tool over 600 RPM
- Running the tool into a nail or foreign object
- Altering or misusing the tool

SAFETY

Before beginning any project, carefully read and follow ALL safety and operational instructions for any tools or devices you use. Failure to do so may cause physical harm to yourself or those around you. If you feel uncomfortable using our Countersink Bit or any other tool, STOP immediately. Lumberjack Tools assumes no responsibility for injury caused to the operator, bystander, or tools used in conjunction with using or misusing our Countersink Bit.



NEVER OPERATE POWER TOOLS UNDER THE INFLUENCE OF DRUGS, ALCOHOL, OR ANY MEDICATIONS.



ALWAYS WEAR SAFETY GLASSES, DUST MASK, AND ANY OTHER PERSONAL PROTECTION ITEMS AS NEEDED.



NEVER WEAR LOOSE ITEMS THAT COULD BE CAUGHT IN MOVING PARTS. SECURE LOOSE OR LONG HAIR AWAY FROM AREA.



WE STRONGLY RECOMMEND A SINGLE-SPEED, GEAR DRIVEN DRILL WITH RPMS OF 500 OR LESS. EXCEEDING THESE RPMS MAY RESULT IN DAMAGE TO THE TOOL.



ALWAYS DISCONNECT POWER AND ALLOW DRILL TO COME TO A COMPLETE STOP BEFORE INSTALLING, REMOVING, OR ADJUSTING THE TOOL.



NEVER APPLY BENDING FORCE (SIDE LOADING) TO THE TOOL. SIDE LOADING COULD CAUSE THE SHANK TO FAIL, OR MAY RESULT IN BLADE DAMAGE.



ALWAYS SECURE THE LOG IN A VISE OR CLAMP PRIOR TO STARTING YOUR DRILL. FAILURE TO DO SO MAY RESULT IN INJURY.



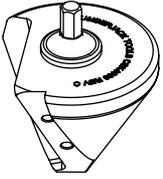
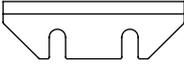
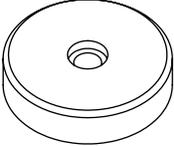
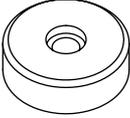
ALWAYS HANDLE THE BLADE WITH EXTREME CARE! FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY.



WHEN EXCESSIVE FORCE IS REQUIRED TO CUT, RE-SHARPEN OR REPLACE THE BLADES. A SHARP TOOL IS A SAFE TOOL!

WHAT'S INCLUDED

Note: Images not to scale

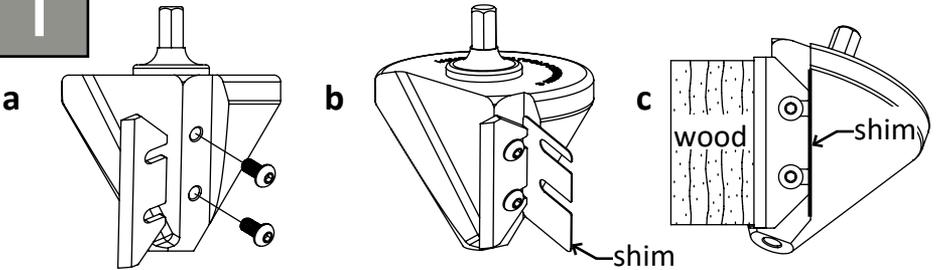
 <p>Countersink (Qty. 1)</p>	 <p>TB3125 Blade (Qty. 1)</p>	 <p>1/4" x 1/2" Button Head Cap Screw (Qty. 2)</p>  <p>5/32" Allen Wrench (Qty. 1)</p>
 <p>Blade Shim (Qty. 2)</p>	 <p>5/16" x 1" Shoulder Screw (Qty. 1)</p>	
 <p>2" Bushing (Qty. 1)</p>	 <p>1-1/2" Bushing (Qty. 1)</p>	 <p>1" Bushing (Qty. 1)</p>

SET UP

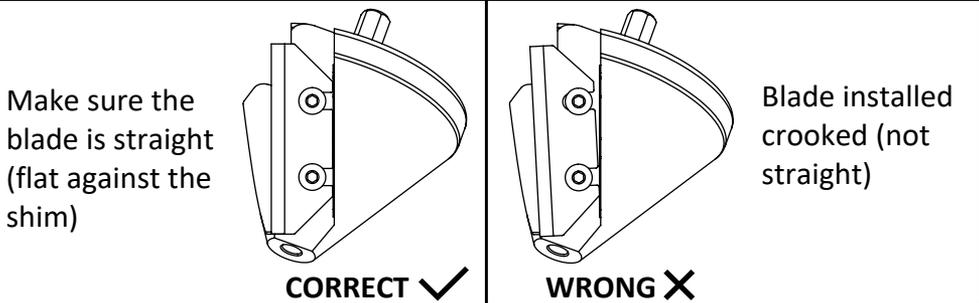
1

Install Blade

CAUTION! BLADE VERY SHARP!



- a. Place the TB3125 Blade in the pocket and loosely attach with screws.
- b. Use one shim to space the blade against the countersink.
- c. Hold the blade in place with a piece of wood while securing screws.
- d. Remove shim.

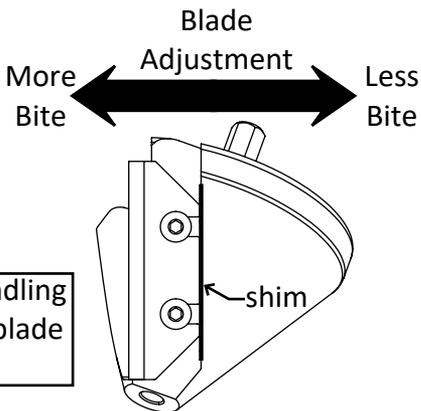


SET UP

2

Adjust Blade

The graphic to the right displays what happens to cutting performance by adjusting the blade.



Be careful handling the tool with blade installed!

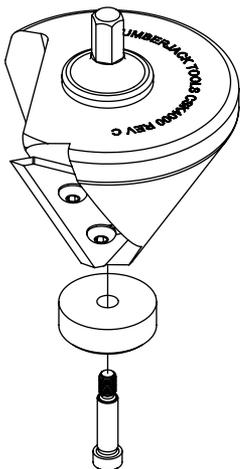
IMPORTANT

Correct blade offset is critical for smooth cutting.

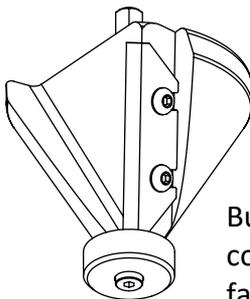
- If cutting is too aggressive (too much bite), use less shims.
 - If cutting is too shallow (not enough bite), add more shims.
- Folded paper works great as a shim for fine tuning.

3

Install Bushing

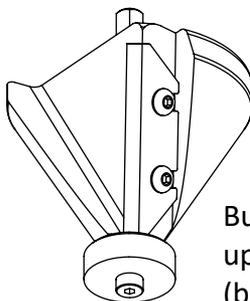


- a. Install the bushing on the bottom of the Countersink using the shoulder screw.



CORRECT ✓

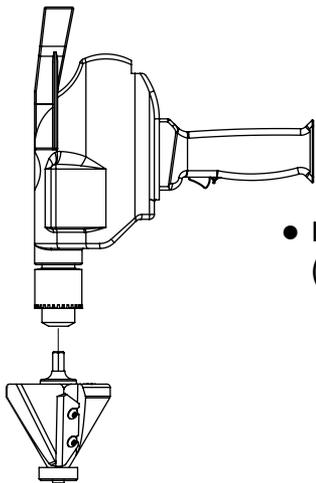
Bushing installed correctly (bevel facing down)



WRONG ✗

Bushing installed upside down (bevel facing up)

OPERATION



Tip

We recommend a low RPM, single speed, corded drill.

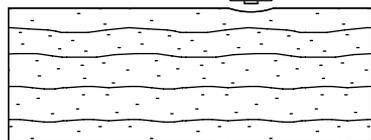
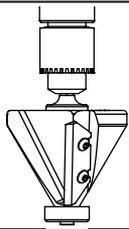
- Install the correct bushing for mortise hole (pg. 5) and attach drill to the shank.

Tip

Use a drill press or Drill Sergeant to drill straight mortise holes.



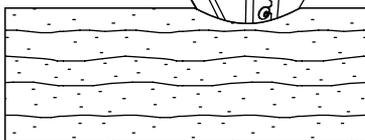
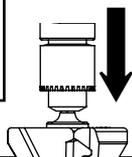
IMPORTANT! Mortise hole must be straight before using countersink. Irregular holes will cause the countersink bushing to bind and will prevent the countersink from cutting properly.



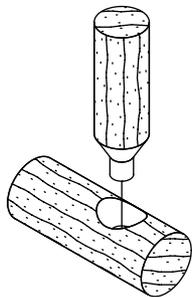
- Align Countersink Bit with mortise hole.

Chip build up expected with certain species of wood. Clear extremely carefully with screwdriver.

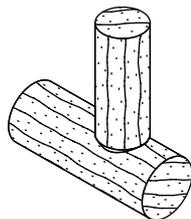
Steady Pressure



- Drill into mortise hole until tool bottoms out or you reach desired depth.



- Test fit the tenon to see if the hole needs to be countersunk more.



MAINTENANCE

● Body

- Cleaning
 - Keep the Countersink body clear of sap and other build-up.
 - Always remove the blade before cleaning.
 - Clean the tool with a solvent (such as mineral spirits).



**WARNING: ALWAYS HANDLE THE BLADE WITH EXTREME CARE!
FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY.**

● Blade

- Care
 - Always wipe blade with a thin film of oil at the end of the day to help prevent oxidation.
- Cleaning
 - Clean the blade with a solvent (such as mineral spirits) and **immediately** apply a thin film of oil to prevent oxidation.
- Sharpening
 - Use a sharpening stone or file to re-sharpen the blade, then clean the blade and apply a thin film of oil.

● Shank

- Replacement
 - If your shank breaks, we offer replacement shanks (see first page for contact information).
 - Turn the shank counter-clockwise to remove.
 - Turn the shank clockwise to install.

TASK	EACH USE
Clean blade pocket	X
Clean body	X
Clean blade	X
Inspect blade	X
Oil blade	X

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
<ul style="list-style-type: none"> • Not countersinking mortise hole. 	<ul style="list-style-type: none"> • Blade not offset far enough from tool body. 	<ul style="list-style-type: none"> • Use Blade Shim to offset the blade from tool (Pg. 5).
	<ul style="list-style-type: none"> • Attempting to countersink crooked mortise hole. 	<ul style="list-style-type: none"> • The countersink only works on straight holes.
	<ul style="list-style-type: none"> • Using wrong sized bushing. 	<ul style="list-style-type: none"> • Measure mortise hole and match to correct bushing.
<ul style="list-style-type: none"> • Takes too much of a "bite". 	<ul style="list-style-type: none"> • Aggressive cutting from blade offset. 	<ul style="list-style-type: none"> • Adjust blade using one or no Blade Shims (Pg. 5).
<ul style="list-style-type: none"> • Shoulder Screw hard to remove. 	<ul style="list-style-type: none"> • Installed without apply anti-seize to threads. 	<ul style="list-style-type: none"> • Apply anti-seize to screw threads before installing.
<ul style="list-style-type: none"> • Drill stops while countersinking mortise hole. 	<ul style="list-style-type: none"> • Using a variable speed drill. 	<ul style="list-style-type: none"> • Make sure you are using a single-speed drill with low RPMs.
	<ul style="list-style-type: none"> • Blade bite too aggressive. 	<ul style="list-style-type: none"> • Move blade further back into blade pocket (Pg. 5).
<ul style="list-style-type: none"> • Drill spins, but countersink stops cutting deeper. 	<ul style="list-style-type: none"> • Countersink pocket full of chips. 	<ul style="list-style-type: none"> • Carefully remove chips from countersink with screwdriver.

UNEXPECTED OCCURRENCES

Engineers and Quality Control staff at Lumberjack Tools have provided you with one of the easiest to use and safest countersink tools on the market. However, there is always the unexpected chance of failure.

- Please contact our customer support for a replacement if a failure ever occurs to the tool body, shank or blade.

Thank you again for purchasing our tools!

Distributed By:

Schroeder Log Home Supply, Inc.

1-800-359-6614 www.loghelp.com