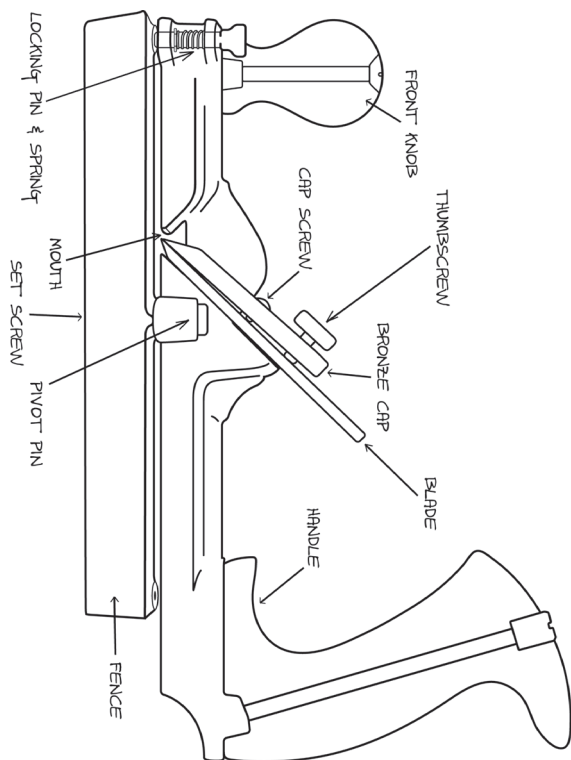


TONGUE & GROOVE PLANE



Lie-Nielsen
TOOLWORKS®
INC.

Heirloom Quality Tools®

Tongue & Groove Plane

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Made in Maine, USA, since 1981

Tongue & Groove Plane

Our No. 48 Tongue & Groove Plane is sized to center on a $\frac{3}{4}$ " board. It can be used on thinner or wider stock, but the tongue and groove will be off-center.

Our No. 49 plane centers on $\frac{1}{2}$ " stock. Thinner or wider stock can be used, but the joint will be off-center, and you'll want to keep track of which side the joint favors.

Pull up the locking pin at the front to disengage it from the fence. Swivel and lock the fence to switch from cutting either a tongue or a groove. It is best to start work by cutting the tongue, and finish with the groove, in case your blade has dulled a bit. The quality of finish on the groove is less important.

To ensure straight cuts it is best to start the cut at the far end of the board. Start the second cut 6"-10" back from the first cut and repeat until you are taking a full length cut. Hold the fence firmly against the work until the full length cut is established.

Geometry: The blade is bedded bevel-down at 45°. The bevel is ground sharp at 25°.

Blade Sharpening: The blade comes ready to use, but honing a secondary bevel of 5° will increase performance, help achieve a razor edge quickly, and improve edge life in hardwoods. For information on sharpening, we recommend David Charlesworth's video, *Plane Sharpening*, available via our website.

Blade Adjustment: The forked blade fits tightly on a milled track to ensure squareness and equal depth of cut on both sides. To adjust depth of cut, set by eye and take a test cut. Tap the back of the blade with a small hammer to increase depth. This is a heavy stock removal tool that is meant to take a thick shaving, so no fine depth adjuster is needed.

To Adjust Fence Action: First, loosen the locking set screw in the underside of the Fence with an allen key, then tighten down the Pivot Pin. The Fence should feel secure yet spin freely. Re-tighten the set screw to lock the Fence in the desired setting.

Materials: The body is cast from Ductile Iron, a very strong alloy that will take a lot of abuse. These castings are fully stress-relieved, a process that removes inherent stresses and ensures that the tool will remain flat and true.

The blade is $\frac{3}{16}$ " thick A2 Tool Steel hardened to Rockwell 60-62. Cherry knob and handle, other parts are Brass and Stainless Steel.

Maintenance: Tools with Iron bodies and should be kept lightly oiled to prevent rust, especially when the tool is not in use. We recommend Jojoba Oil, a plant based oil product that is non-toxic, odor-free and easy to use.

Also, in our shop, we use a fine abrasive handblock to remove any light surface oxide from tool bodies and blades. Jojoba Oil and abrasive handblocks are available from us.

Guarantee: Materials and workmanship are guaranteed for the life of your tool. Call for repairs or replacement parts. We are available for advice if you ever have a problem using your tool.

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WARNING: This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. Wash hands after handling.