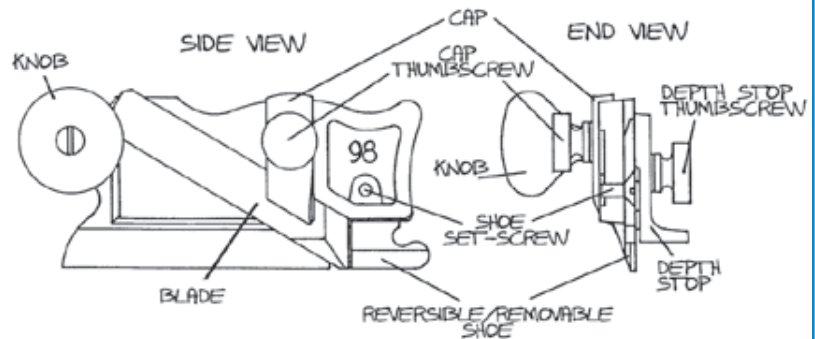


Lie-Nielsen Toolworks Product - Use and Care Instructions

Side Rabbet Planes

This pair of side rebate, or fillister, planes is perfect for cleaning up or widening dadoes, rabbets, tenons and sliding dovetails. Width (depth) of cut is 1/2". These tools will fit into a 3/16" groove at full depth.



Body is 4-1/2" long x 2" high. A shoe in front of the blade can be removed to allow the tool to reach right into the corners of your work.

Geometry: The blade is bedded at 8° with a 25° bevel, for an included cutting angle of 33°.

Shoe: The brass shoe installed in front of the blade may be reversed to allow planing to within 3/16" of the end of a groove, or removed entirely.

Blade Adjustment: Adjust the blade by hand. Loosen the cap screw, then sight along the sole for depth of cut, and to make sure the edge is parallel to the sole.

Blade Sharpening: The blades are ready to cut wood out of the box. They are ground sharp at a 25° bevel. You may wish to give them a light honing before use. A secondary bevel helps achieve a razor edge.

Maintain the 25° bevel, or adjust as needed for harder woods. The skew angle is 30°.

The blade can be honed freehand, or you can build a jig to hold the blade while using a stone in your hand to sharpen it.

Note: As you sharpen the blade, you will have to restore the relief angle to allow the blade to plane to the bottom of a groove.

Materials: We use Manganese Bronze for our tool bodies. 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 A-2 Tool Steel, cryogenically treated and double tempered to Rockwell 60-62. Our heat treating technique ensures that the blade will take and hold a very fine edge for a long time. After heat treating, the blade is fully surface ground on the top, back, and cutting edge, giving a smooth, flat surface that will take a mirror finish very quickly. The 1/8" thickness provides solid chatter-free cutting.

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Maintenance: The Bronze bodies are hand lapped flat. Depending on how much use your tool gets, an occasional light sanding with 320 or finer wet/dry paper on a flat surface will keep the sole in as-new condition. Many people like the patina that Bronze gets with age and use, but if you wish to keep the finish bright a little brass polish is in order.