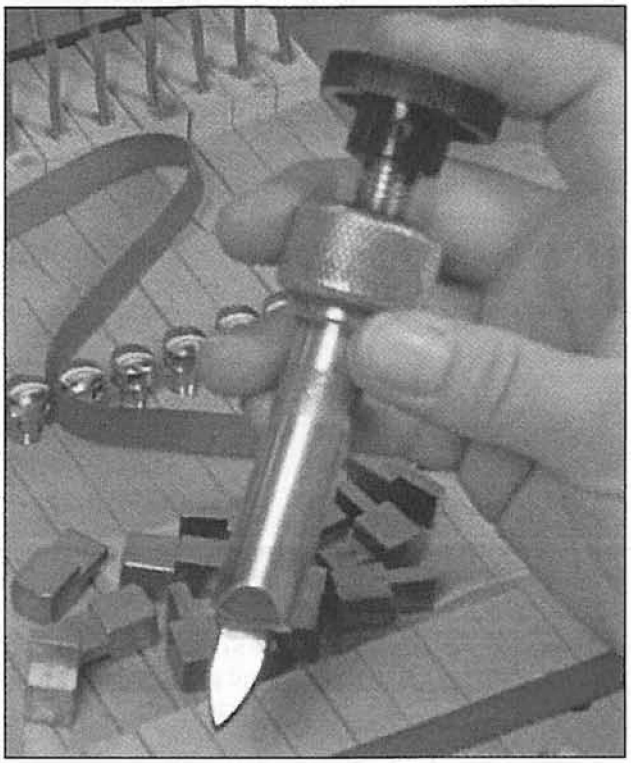
The Bushmaster is a state of the art key rebushing tool that guarantees factory-style bushing. Combined with a an accurate key bushing caul system, the Bushmaster provides the most efficient and accurate way to rebush keys. The function of the Bushmaster is to simultaneously produce a uniform cloth depth and cut. Every mortise will have the same length of cloth. The Bushmaster eliminates all the "guesswork", and does it with incredible speed. Manufactured by Jahn.



THE BUSHMASTER

Features

-Solid Brass/Aluminum construction .

-Disassembles in seconds for blade replacement/cleaning/etc.

-Will fit any size mortise/pin including .088" pin.

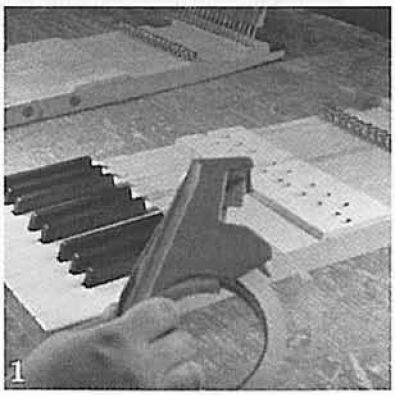
-Built in depth position/fast plunge cut.

-Lifetime guarantee/ all parts and labor (except blades).

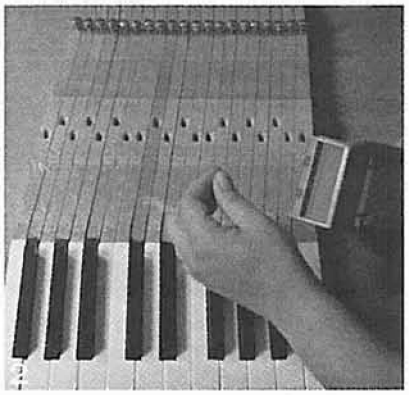
Instructions

The following sequential photographs and descriptions are designed to give a basic understanding of the Bushmaster and its function when combined with accurate key bushing cauls and correctly dimensioned cloth. The techniques involved are simple to learn and success is guaranteed with the first job. Once mastered, most rebushing jobs can be completed in 1 to 2 hours.

Most photos will be self-explanatory. Please refer to the last page under Helpful Hints for more information.



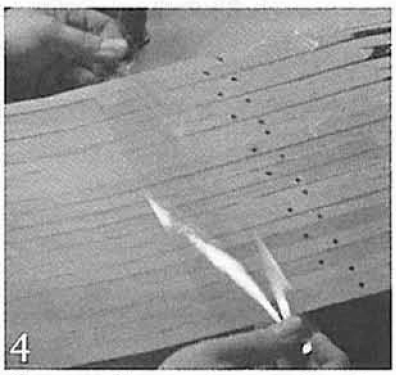
Clamp keys with packing tape.



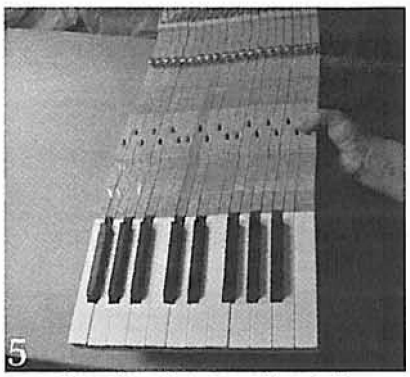
Tape between keys and buttons.



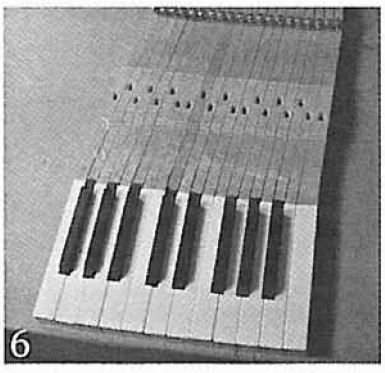
Push keys together tightly.



Turn over keys and tape underside.

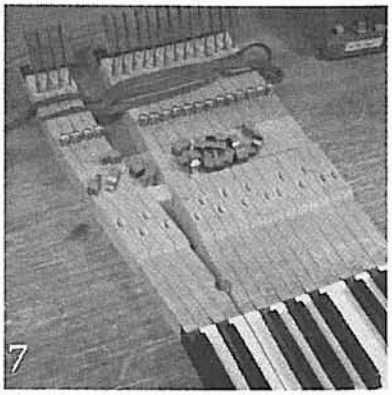


Tape keys in 4 or 5 "packs".

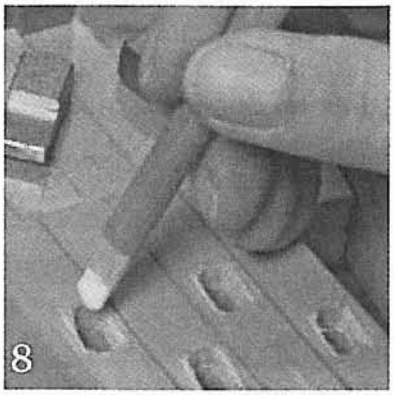


Keys are ready for rebushing.

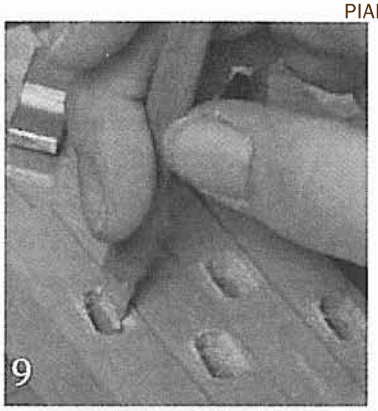
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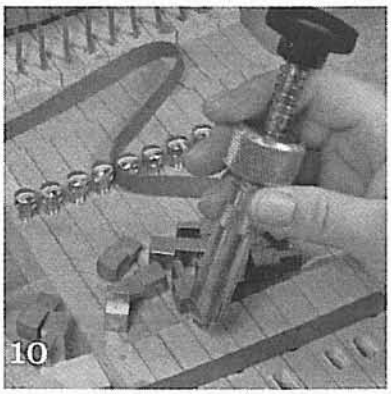
Cauls and cloth ready.



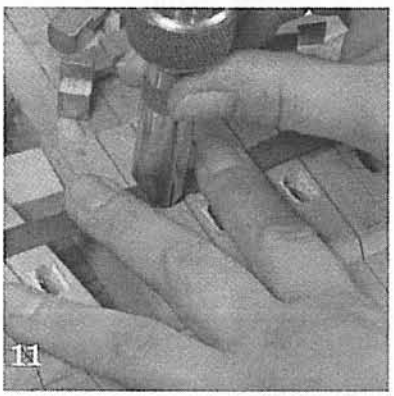
Apply PVC-E or Hide glue to sharp rail first. (Apply glue to all mortises in the section.)



Apply glue 1/8" to 3/16" deep.



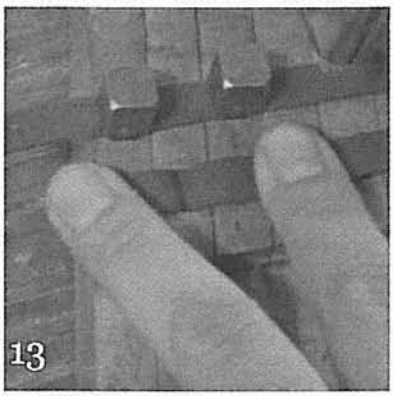
With glue in all the sharp mortises, lay the cloth strip over the mortises.



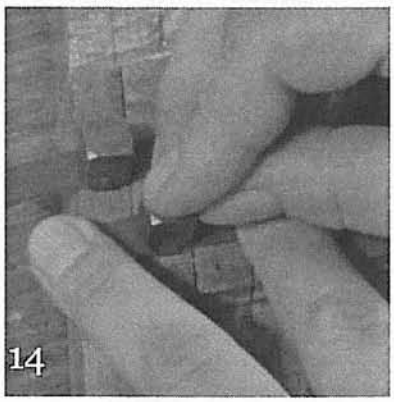
Insert Bushmaster into mortise and hold cloth with fingers.



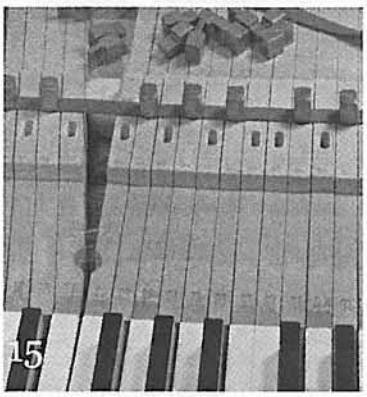
Continue to lightly hold felt with fingers and press plunger to cut.



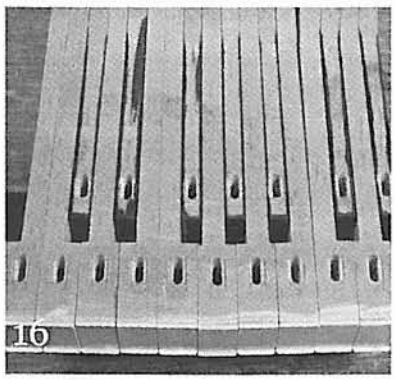
Fingers prevent cloth from "popping" out of the mortise.



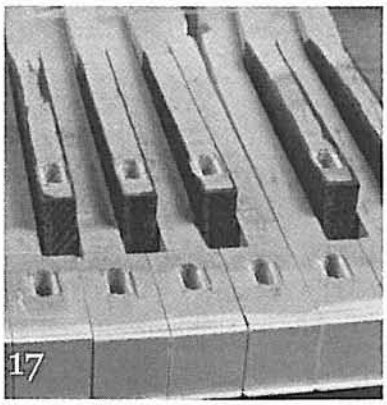
With fingers still lightly holding felt, insert caul .



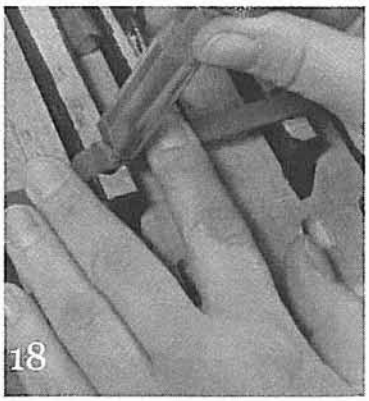
Completed sharp rail. Repeat procedure with natural rail. Do not trim cloth at this time.



Turn section upside down.

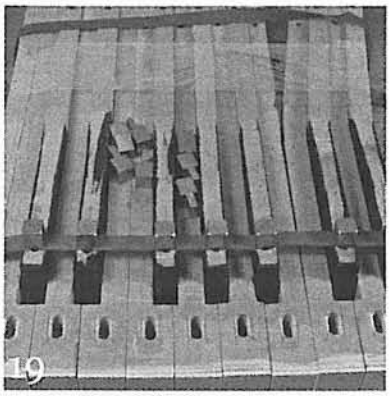


Push naturals away from sharps. Tape will still hold the section together.



With glue in sharp mortises, lay felt across and cut same as balance rail.

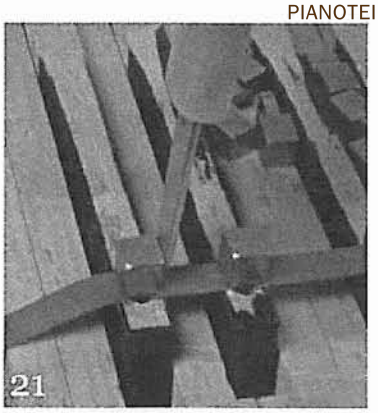
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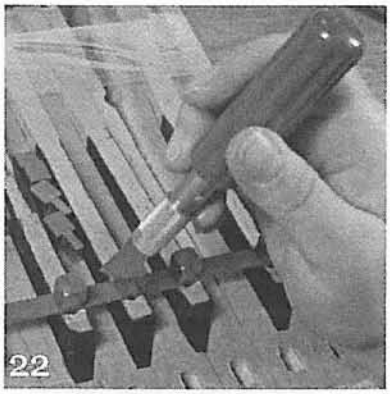
Sharp rail completed. Trim rail before bushing naturals.



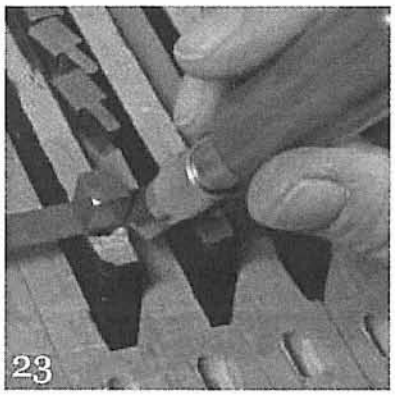
Tool for trimming cloth.



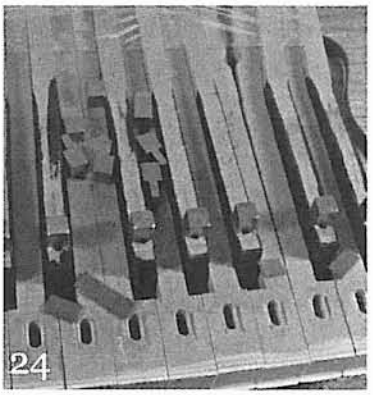
Trimming cloth. Use finger to hold caul while cutting.



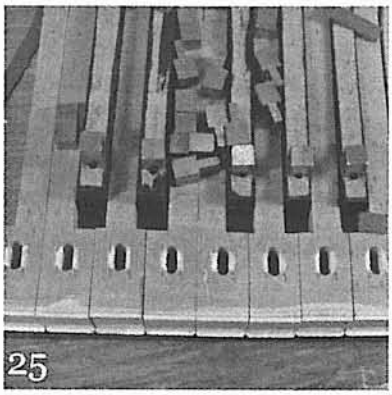
Alternate tool for cutting.



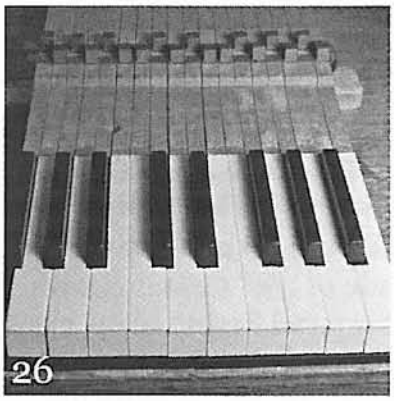
Trimming cloth. As before, use finger to hold caul while cutting.



Completed sharp rail.



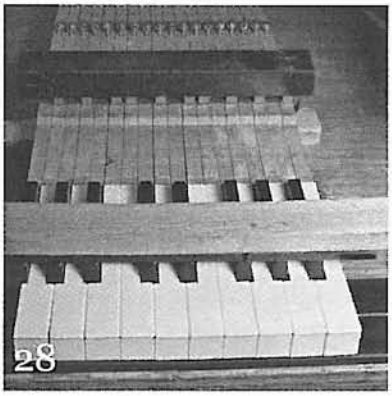
After trimming sharp rail, repeat entire bushing procedure with natural rail.



After trimming naturals, turn section over and press sharps back down.



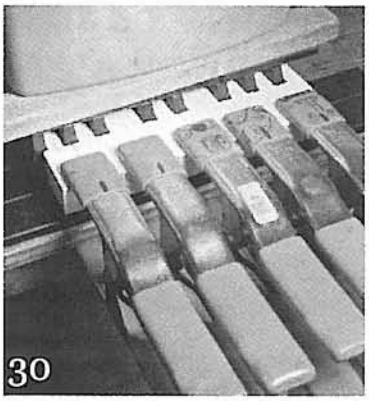
Rest cauls on hard rubber and make sure cauls are straight.



Position "clamp" over sharp rail.

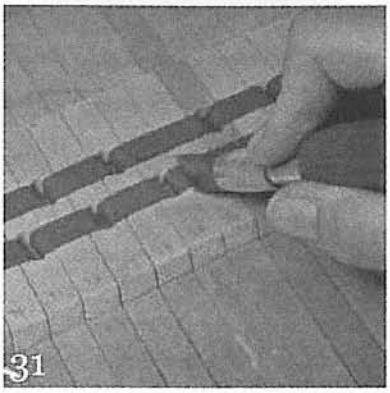


Add weight for clamping sharp rail and counter weight for front clamps.

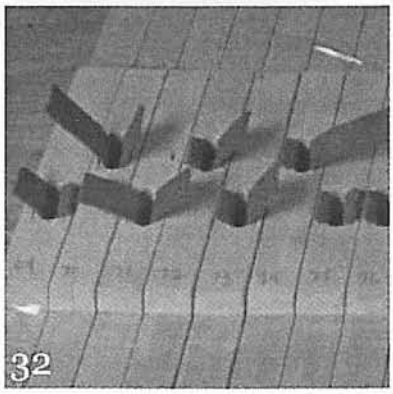


Clamp using 6" Pony clamps. Leave clamped for 10 minutes.

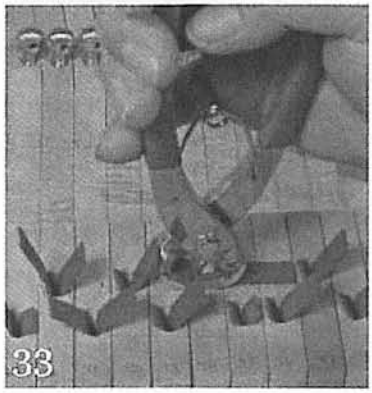
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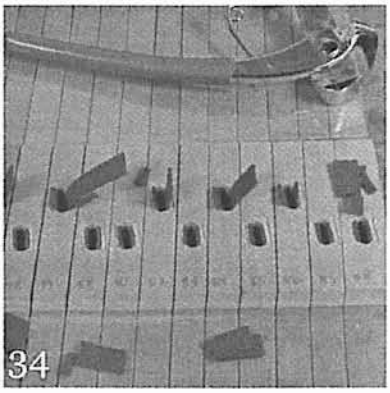
Cut felt between the keys.



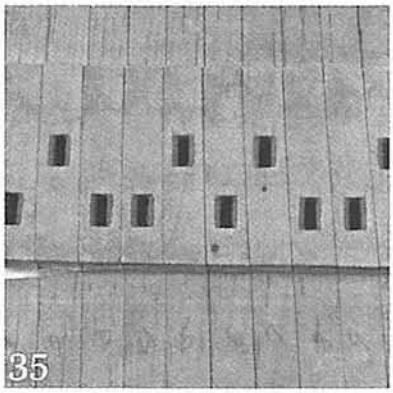
Mortises ready for trimming.



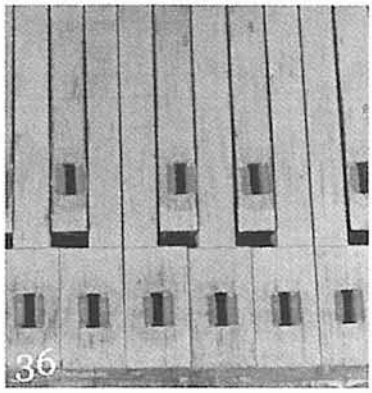
Using flush cut center-pin nippers, trim cloth.



Naturals completed.



Completed balance rail.



Completed front rail.

Helpful Hints

NOTE: The Bushmaster surgical blade is extremely sharp. Please exercise caution and common sense.

Photo 1	Use Scotch 3750 packing tape and #122 dispenser for best results
Photo 3	Squeeze keys together tightly with fingers while applying tape
Photo 6	Most keyboards will pack up into five sections
Photo 8	Glue applicator made of 1/4" doweling with tip sanded flat
Photo 10	Always work the sharp rail first to allow clearance for naturals
Photo 11	Don't hold the felt too tightly. Finger pressure should be just enough to let the Bushmaster "drag" the felt into the mortise.
Photo 13	Once the cut is made, the felt will not pop out of the mortise as long as you remember to keep your fingers on the two sides of the mortise.
Photo 14	Once the caul is in place you can remove fingers and move to the next mortise.
Photo 15	Don't trim the balance rail at this point. This will be the final step in the process.
Photo 17	It is nearly impossible to work sharps and naturals on the same level plane. Push the naturals away from the sharps and the tape holds very securely.
Photo 20	Trim the sharp rail before bushing the naturals.
Photo 21	You will need to hold the caul down with your finger while cutting.
Photo 27	Use material that has a slight "give" for front rail clamping.
Photo 29	Use enough weight to ensure the sharp rail will clamp. Weight also acts as a counter balance for the front clamps. *NOTE: Always put weight on first before clamping naturals.* Leave clamped until next section is completed. Front rail will be perfectly inset avoiding regulation problems.