

## O' Canada! Key Ring

### Needed:

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7mm mandrel, drill 27/64", bushing 127A, premium pen mill 27/64"

### Preparing the blank

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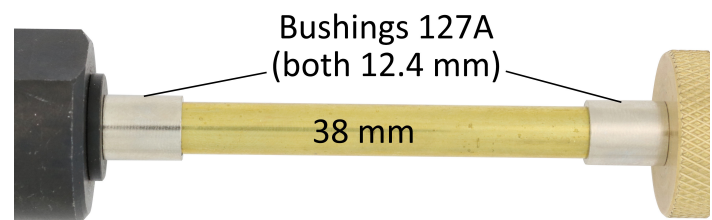
1. Cut the blank ¼" longer than the brass tube so you can square it off once the tube has been glued in.
2. Drill through the center lengthwise with 27/64" drill.
3. Scuff up the tube with sandpaper to clean off the oxidation and give the glue a better adhesion surface.
4. Plug the tube ends with a material of your choice – we recommend baseplate wax – to keep the glue from getting into the tube. Just push the ends of the tubes into a thin section of the material to form a plug.
5. Roll the tube in the glue and insert it into the blank with a twisting motion until it is equidistant between both ends of the blank.
6. Set aside until the glue has had time to reach its maximum strength.
7. When the glue has cured, use a hobby knife to remove the plugs from the ends.

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8. Square off the ends of the blanks until you can see bright brass tube. STOP at this point. This can be done with the proper jig and a disk sander.

### Turning the blank

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1. Assemble the blank and bushings on the mandrel.
2. Tighten the tailstock and lightly tighten the nut that holds the blanks. Over-tightening can bend your mandrel and cause your kit to come out oval. You may use a spacer to give you more room between the thumbnut and the last bushing.
3. Turn the blank to the desired contour, using the bushings as a sizing guide.
4. Sand the surface in progressive steps until you get to 400 or 600 grit.
5. For a high polish finish, continue sanding with micro mesh to 12,000 grit.
6. Apply finish of your choice and polish. Remove blank from the mandrel.

## Assembling the kit

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1. Press the finial into one end of the finished tube.
2. Press the ring holder into the other end of the finished tube.
3. Slide the ring onto the ring holder and attach the carabiner to the ring.

