

Reel for Kite String



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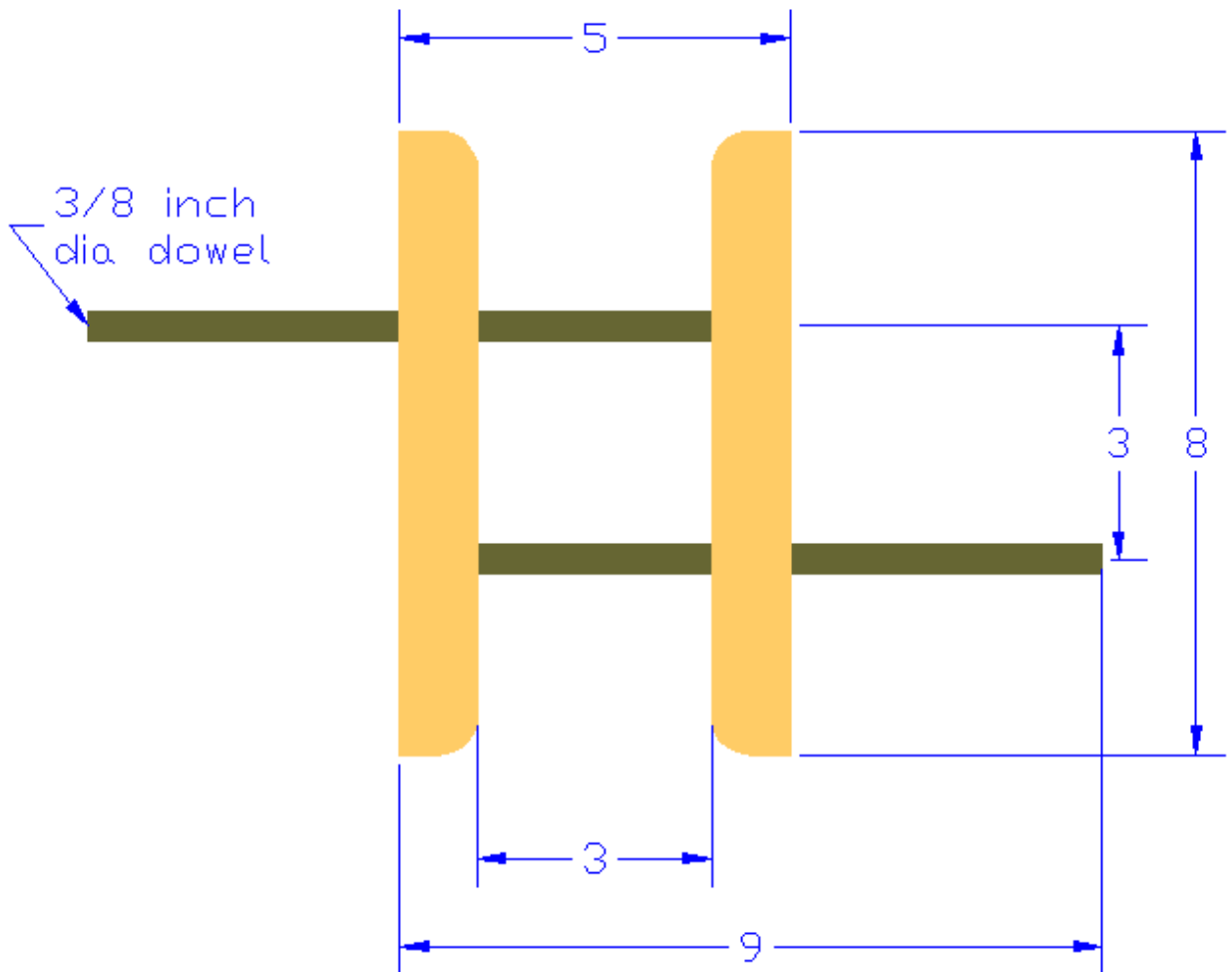
Lessons:

- *Applies to Wolf Elective 5 - Spare Time Fun*
- Practice measuring, sawing, drilling holes, shaping wood with a rasp
- Easy: appropriate for Wolf, Bear, or Webelos

Tools:

- Saw (Japanese style pullsaw recommended)
- Drill with $\frac{3}{8}$ inch bit (electric/battery powered drill with a twist drill or paddle bit **OR** a brace with an auger bit)
- Sandpaper and/or rasp
- Clamps to secure the workpiece to the work surface
- Ruler
- A square (triangular “rafter square” is recommended)
- **Materials:**
- 16 inch long piece of $\frac{3}{4}$ x 1 inch pine (can be found in the molding section, in a home center)
- 18 inch long dowel, $\frac{3}{8}$ inch diameter

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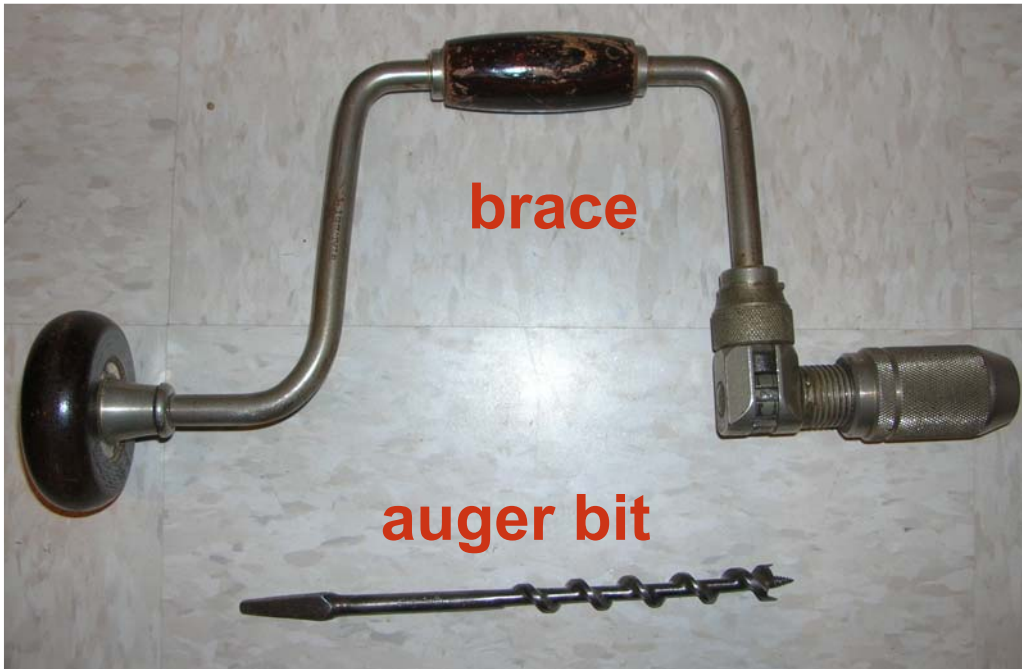
Procedure:

1. Cut 2 pieces, each 8 inches long from $\frac{3}{4}$ x 1 inch pine
 - Measure with the ruler, then use the rafter square to draw the line across the board.
2. Use a rasp to round over 2 corners on each piece
 - You can clamp the 2 pieces side by side, and round the corners on both pieces at the same time

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Procedure:

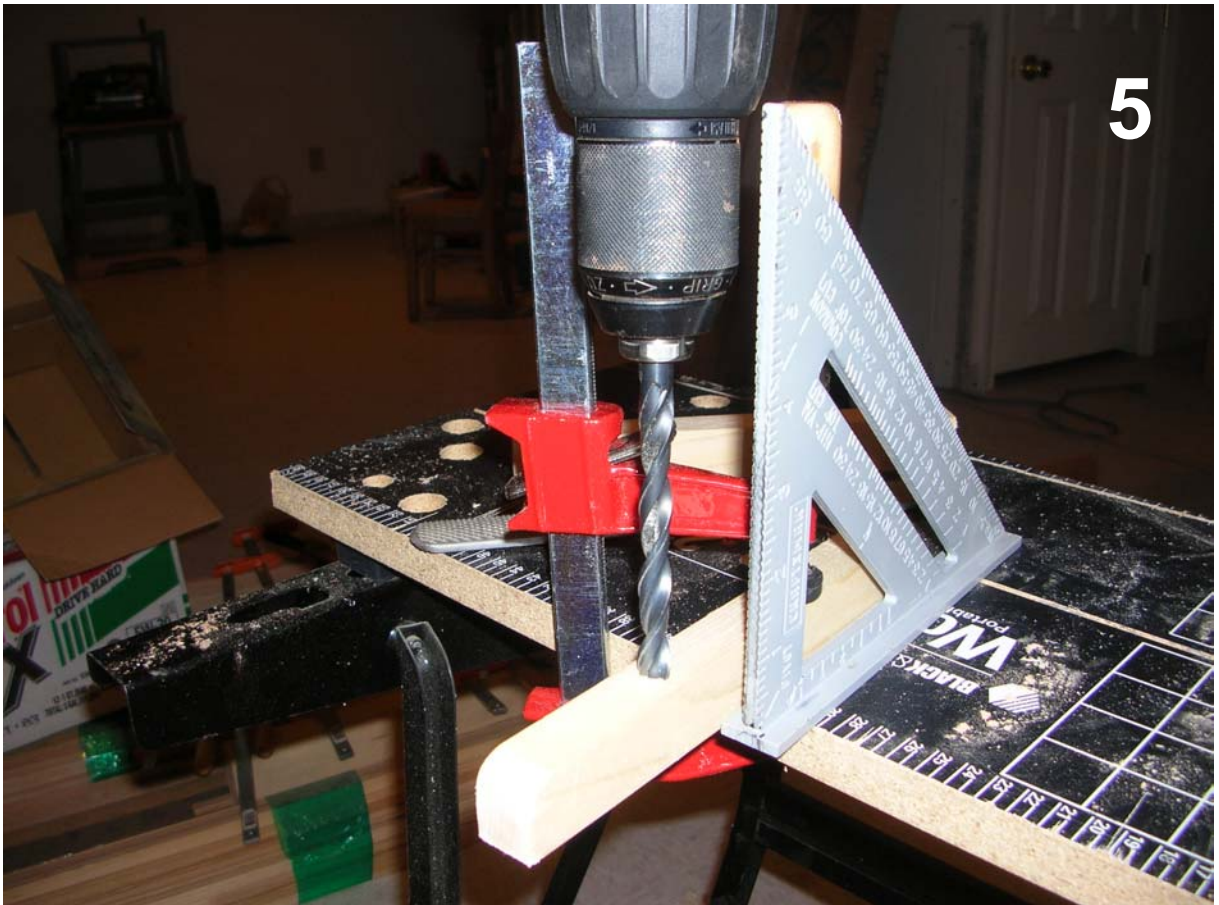
3. Choose a drill and drill bit. Here are a few choices:



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Procedure:

4. Measure and mark the hole locations on the wood.
5. Clamp the wood, and place a square nearby so that you can tell when the drill is exactly vertical.
6. Use this approach to drill the holes (2 holes per piece of wood)
 - If you use a brace & auger, have one scout hold the knob at the top of the brace, while another scout cranks the brace.



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Procedure:

7. Cut two 9 inch lengths of dowel
8. Put a pencil mark on each dowel, 4 inches from the end
9. Put one dowel through each wood side piece, and put glue at the end of the dowel, and just past the 4 inch mark.



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Procedure:

10. Slide the dowels to the correct position.

- the pencil mark on the dowel at 4 inches should end up even with the outside of the wood sides

