

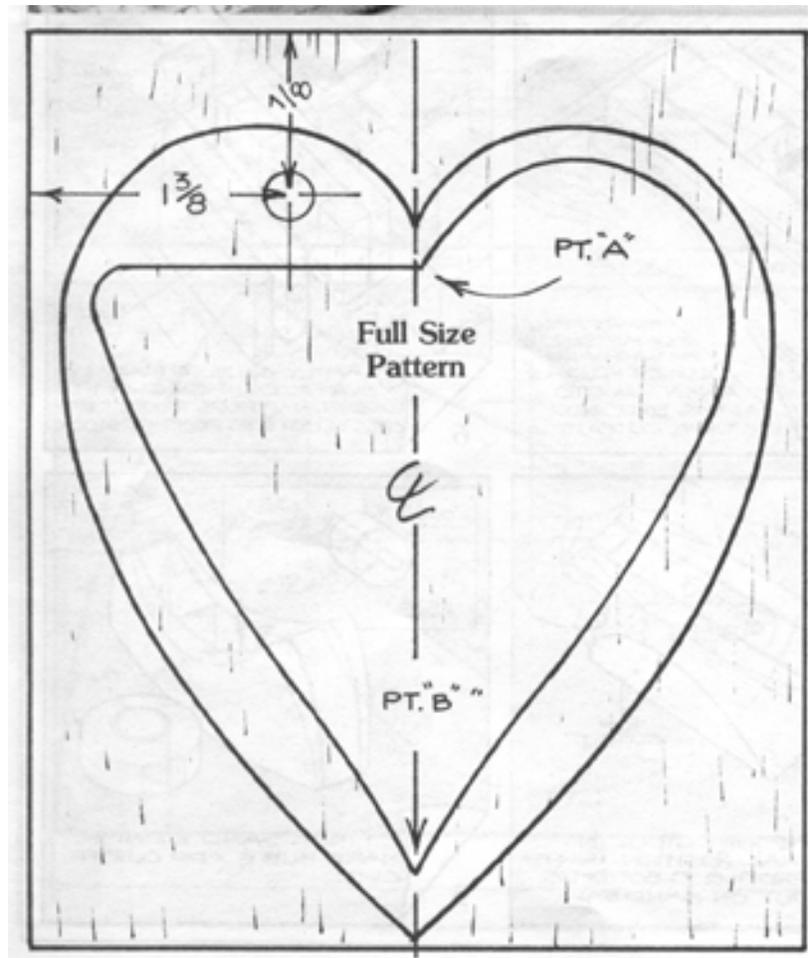
Project 10766EZ: Valentine Box



Small wooden boxes are always a welcome gift, and this heart-shaped design makes it especially appropriate for Valentines Day. This one is made from padauk because it has a naturally reddish tone, but just about any wood can be used as long as it is well sanded and finished.

The inner and outer hear-shaped patterns are shown full-sized.

Valentine Box Full-Size Pattern

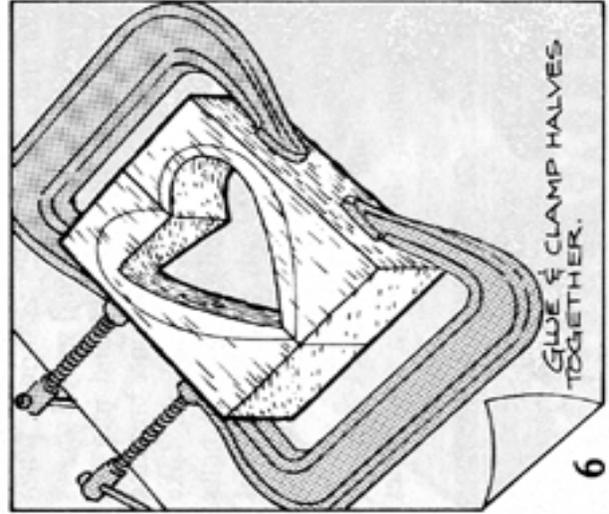
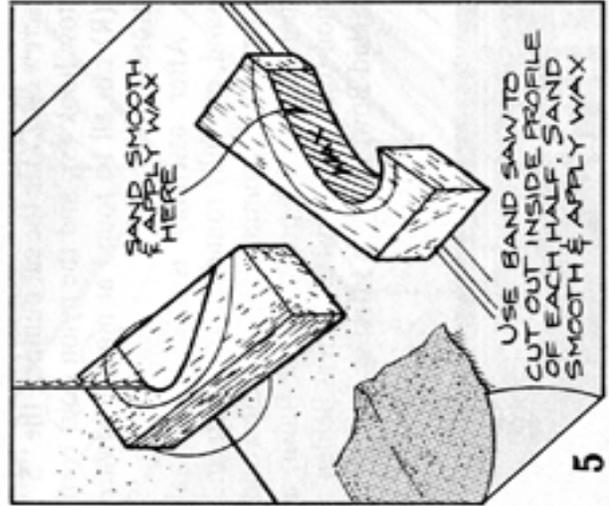
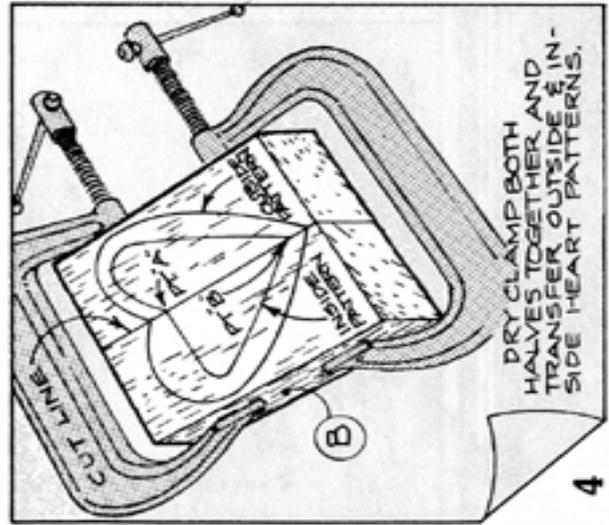
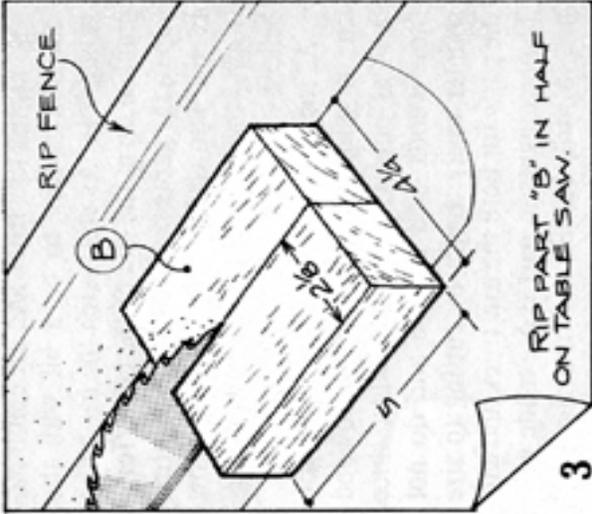
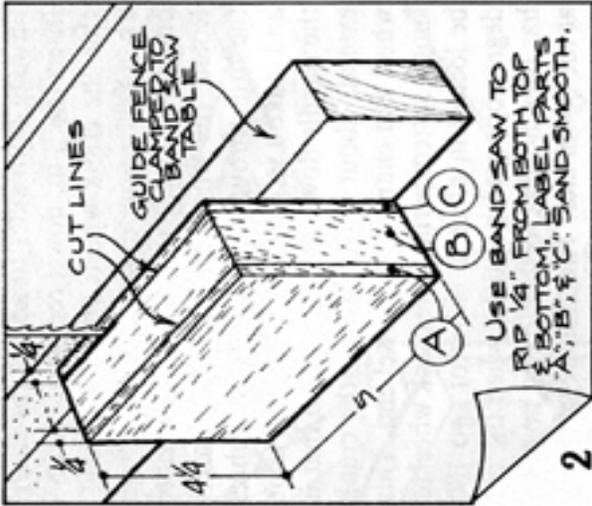
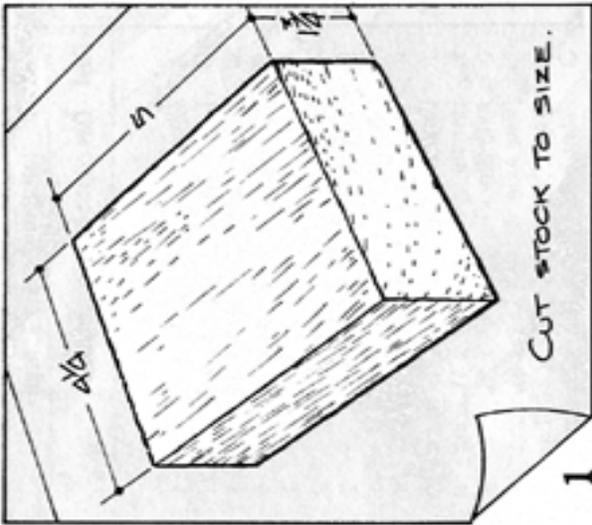


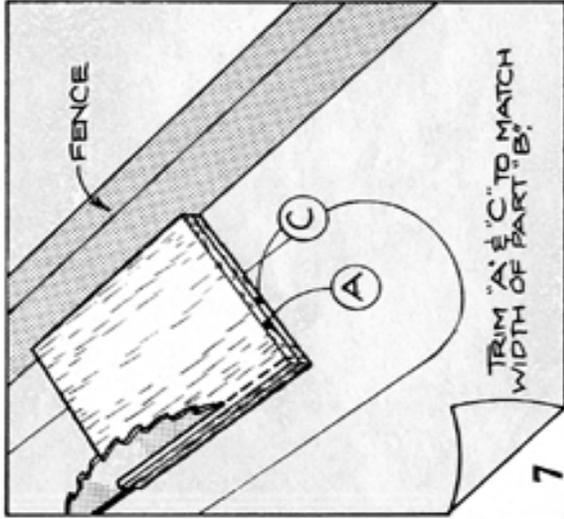
Valentine Box Step-by-Step Instructions

1. Cut 2" nominal stock ($1\frac{3}{4}$ " actual) to a $4\frac{1}{4}$ " wide x 5" long.
2. Clamp a guide fence to the table.
3. Use a band saw to rip $\frac{1}{4}$ " from the top and bottom of the stock.
4. Label each part: "A" for the top, "B" for the center, and "C" for the bottom.
5. Tape the corners of a 9" x 11" piece of 80-grit sandpaper to a flat surface, grit side up.
6. Sand all band saw marks until smooth.

7. Set the table saw rip fence to cut part B exactly down the center, using a push stick to keep hands away from the saw blade.
8. Clamp the two halves together temporarily.
9. Transfer both the inside and outside full-size heart patterns, making sure points "A" and "B" fall on the cut line.
10. Use a 1/8" –1/4" wide band saw blade to cut out the inside profile.
11. Sand all saw cuts until smooth.
12. Apply a thin coat of past wax to the cutout area to make glue clean-up easier later on.
13. Apply a thin coat of white or yellow glue to the mating surfaces.
14. Clamp firmly, making sure all edges and ends are flush.
15. Use the table saw to rip parts A and C to the same width as part B.
16. Tape parts B and C together, making sure all the edges are flush.
17. Apply a coat of paste was to the exposed area of part C, again to simplify glue clean-up.
18. Separate parts B and C.
19. Apply a coat of yellow or white glue to the unwaxed areas of part C.
20. Make clamp pads from scrap stock to keep the edges of parts B and C in line when you clamp them together and to protect the bottom surfaces of the stock.
21. Wax the clamp pads.
22. Clamp parts B and C together using the clamp pads.
23. Use the full-size pattern to lay out and mark the location of the 1/4" diameter x 1/8" deep hole on the underside of part A.
24. Use epoxy glue to secure the 1/4" diameter x 5/8" long dowel in place.
25. Transfer the outside profile of the full-sized pattern to part A.
26. Assemble part A to part B, using a piece of tape to keep the parts from moving.
27. Use the band saw to make the cuts in the sequence shown.
28. Final sand all parts once cut.
29. Clean up the glue squeeze-out.
30. Apply a coat of paste wax for an attractive final finish.

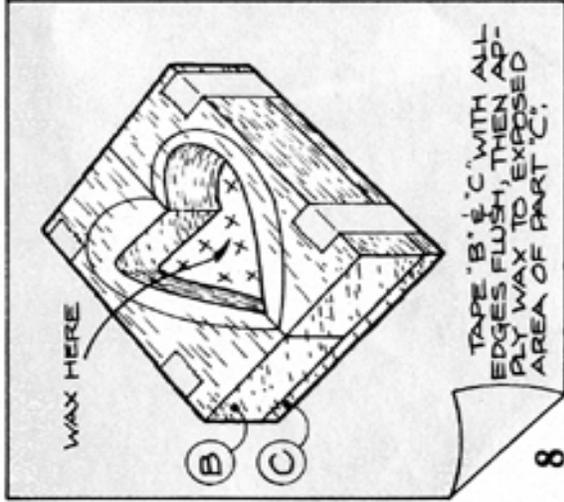
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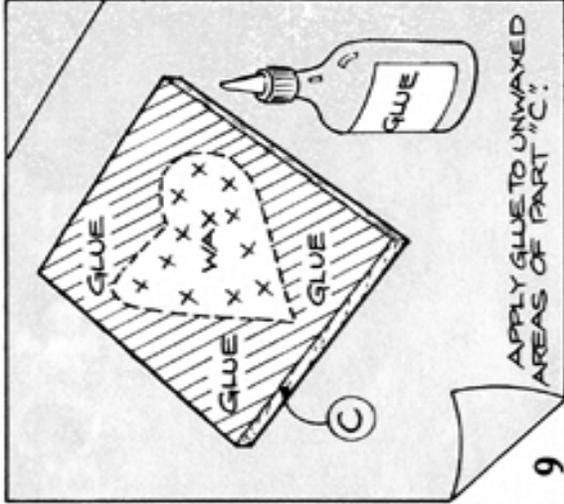
TRIM "A" & "C" TO MATCH WIDTH OF PART "B".

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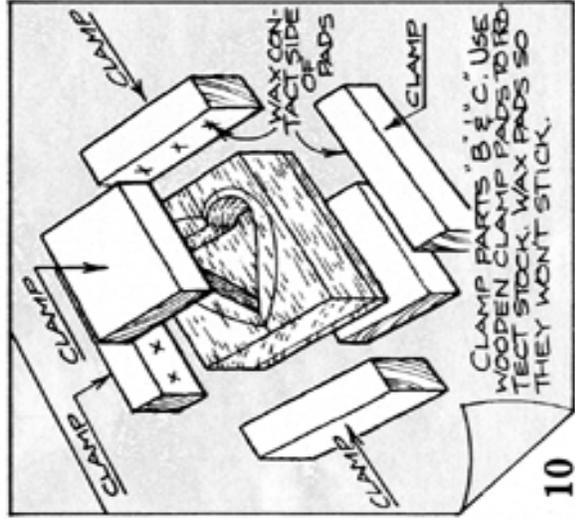
TAPE "B" & "C" WITH ALL EDGES FLUSH, THEN APPLY WAX TO EXPOSED AREA OF PART "C".

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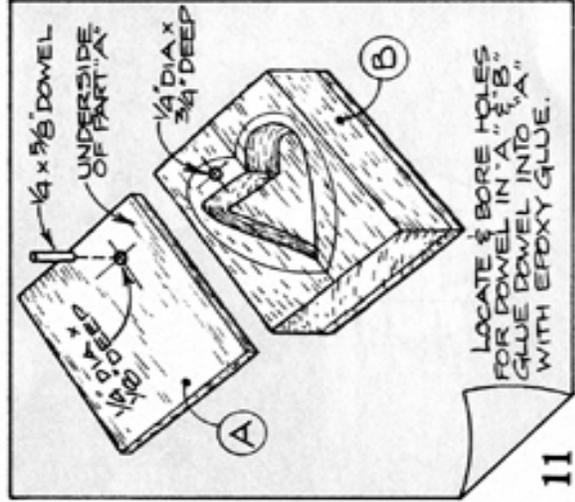
APPLY GLUE TO UNWAXED AREAS OF PART "C".

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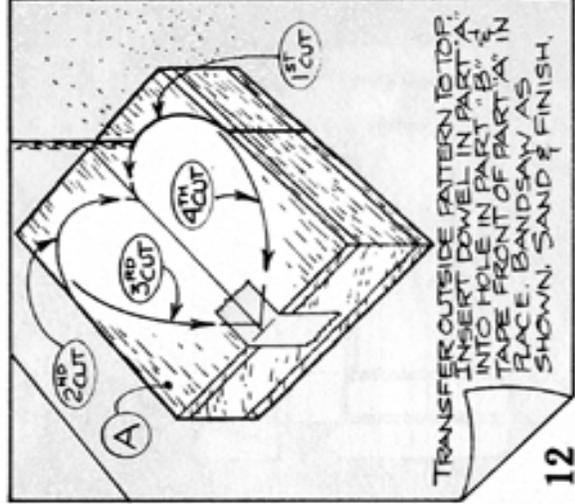
CLAMP PARTS "B" & "C". USE WOODEN CLAMP PADS TO REDUCE STICK. WAX PADS SO THEY WON'T STICK.

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LOCATE & BORE HOLES FOR DOWEL IN "A" & "B". GLUE DOWEL INTO "A" WITH EPOXY GLUE.

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TRANSFER OUTSIDE PATTERN TO TOP. INSERT DOWEL IN PART "A" INTO HOLE IN PART "B" & TAPE FRONT OF PART "A" IN PLACE. BANDSAW AS SHOWN. SAND & FINISH.

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