4 Chuck a ¼" brad-point bit into your drill press, and clamp a tall fence to your drill press table. Clamp the blank for core (B) to the fence, and drill as shown in Photo C. Repeat for the other shaft hole.

5 Extend the centerline of the ½"-dispenser hole to the edge of the blank, and mark its centerpoint. Using your drill press, drill this hole 1" deep.

6 Bandsaw or scrollsaw just outside the solid line for the core (B). Sand to the line, removing any saw marks for a smooth and square edge.

7 Drill a blade-start hole through core (B), and then remove the waste from the core's middle.

8 Insert a ¼" dowel through the shaft holes to ensure that they align. If the dowel doesn't rotate freely, use a round file to remove wood that causes the binding.

Make the arrow parts
1 Cut the rotor (C) to length, checking for an easy fit into its location in the core (B). Mark on this dowel the edges of the blank. Measure to the center of the blank's thickness, and mark that centerpoint on the centerline you just drew.

Carefully position the blank when drilling the two shaft holes to help ensure that they align.

Figure 2: Full-Sized Patterns: Heart Core and Front/Back

Tip Alert
To cut out the waste with a bandsaw, cut along the grain line into the core. Drill a few extra holes to negotiate tight corners. A little glue and clamps will make the kerf disappear.