So you’ve got two pieces of your 3D printer cut and drilled completely. Let’s continue with the cutting and drilling of the remaining fifteen pieces. This chapter and the next two will provide you with photos and notes about the various pieces that you’ll be cutting. We’ll discuss the pieces that might be a bit tricky, and we’ll show you some alternative methods for cutting and drilling.

In Chapter 6, we used dimensions taken directly from the building plans to mark where cuts were to be made and where holes were to be drilled. But remember that the building instructions contain actual-size templates for all the parts. We’ll show you how to use the actual-size templates to mark cuts and drilling locations versus using measurements from the building plans.

Let’s get started. This chapter will walk you through the cutting and drilling of five new pieces. As always, take your time, double and triple-check all your measurements, and be careful! Put on your safety goggles, watch your fingers, and don’t rush it.

**Z-Axis Bearing Support – Part L**

Part L, or the Z-Axis Bearing Support, is not a difficult piece to complete. It does have one counterbore hole that must be drilled (in addition to some regular holes) but, as you can see from Figure 7-1, the part retains its rectangular shape and no extra cuts are required—just drilling.

Your Part L dimensions should be 2-9/16” x 5” but be certain to verify your cut piece’s measurements with those provided in the building plans. You’ll use the plans to mark the holes to be drilled. Here’s an important tip: drill the counterbore hole first! If you use a Forstner or Brad point bit, the counterbore drilling step will leave a dimple in the wood that will allow you to later drill the 1/2” hole directly in the center of the 7/8” counterbore hole.

Figure 7-1 shows our completed Part L with six 1/4” holes and a 1/2” hole drilled all the way through the piece. The 7/8” counterbore hole was drilled to approximately half the thickness of the piece (3/8”). You can still see the pencil lines we used to mark the locations of the holes to be drilled.
If you look at your building plans, you’ll notice that this part can be modified slightly with some additional cuts. Figure 7-2 shows a Part L with the basic cuts and drilled holes alongside a Part L cut from a CNC machine.