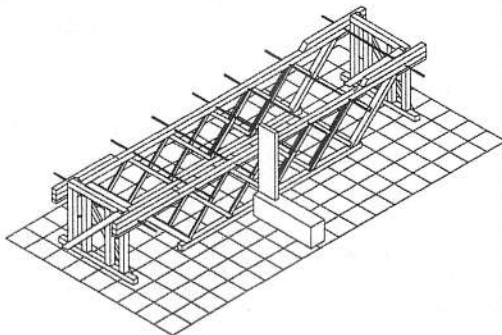


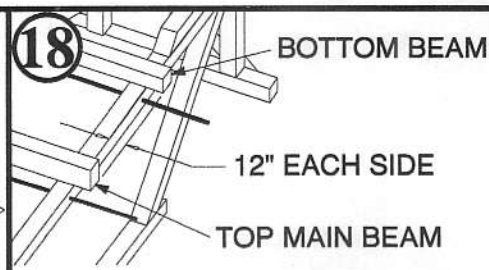
17

JOINING THE SIDE PANEL ASSEMBLIES

Cut **lateral tension rods** extra long and insert them through the holes in the **bottom chords**. Spread the **side panel assemblies** apart and place them upside down on a piece of graph paper. Be sure they are lined up and square. Place the completed **end panel assemblies** between the **side panel assemblies** to set their distance apart. Rubber cement will hold things in place temporarily. Use a square to make sure the **side panel assemblies** are vertical.

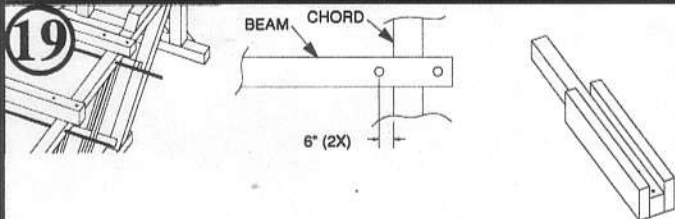


18



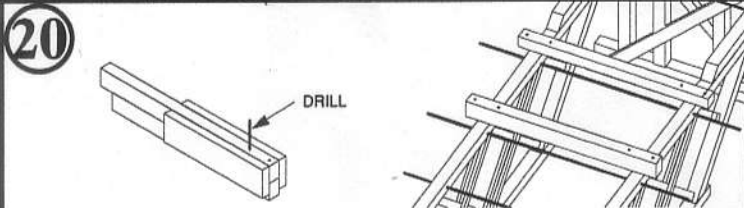
Cut the **bottom beams** (12x12) and the **top main beams** (12x18) so they are 24" longer than the bridge is wide. Cut one extra **top main beam**, but don't worry about getting the length just right.

19



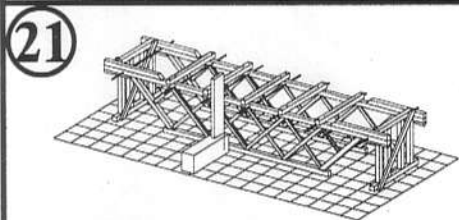
Drill two **tension rod holes** in the extra **top main beam** so they straddle one of the **bottom chords** as shown. Glue two pieces of scrap wood to the sides of this beam so it will act as a hole drilling jig.

20



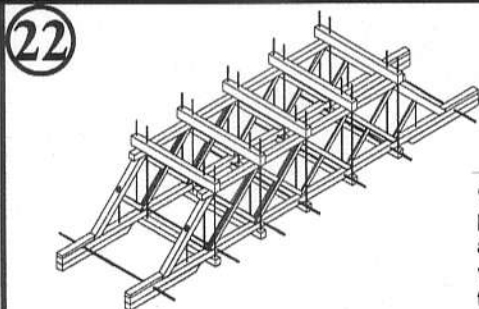
Use the hole drilling jig to drill **tension rod holes** in all the **top main beams** and **bottom beams**. Drill half-way through the beam from one side then flip it over to finish the hole by drilling from the other side of the beam. This will help get the hole straight. Check your spacing by placing the beams on the upside down bridge assembly.

21



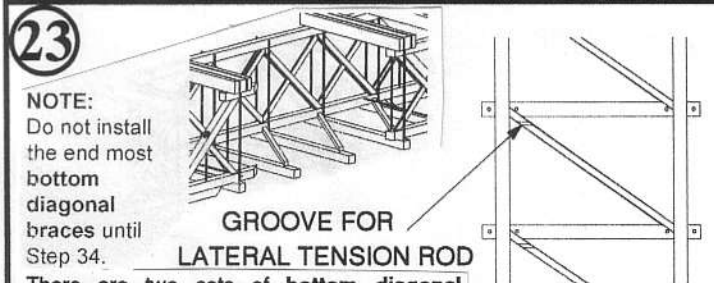
Glue the **bottom beams** to the bottoms of the **side panel assemblies**. Line them up with the intersections of the **angle braces**. See the figure in Step 1. Use the graph paper and the **lateral tension rods** to make sure the **bottom beams** are square to the **side panel assemblies** and parallel to each other.

22



Carefully remove the bridge from the graph paper, remove the **end panel assemblies**, and rub off the rubber cement. Cut the **vertical tension rods** longer than they need to be and insert them into the holes in the **bottom beams**. Slide the **top main beams** down to the **top chord** and glue them in place. Be careful to make all the **vertical tension rods** vertical and parallel.

23

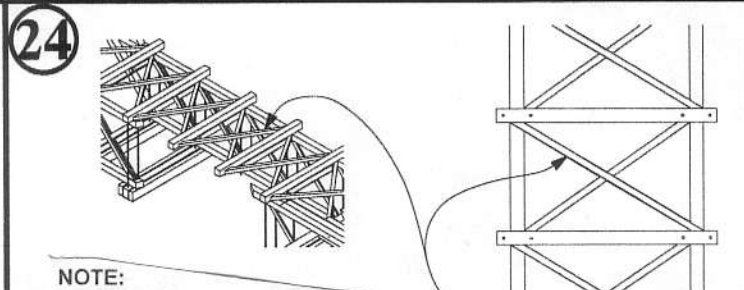


NOTE: Do not install the end most bottom diagonal braces until Step 34.

There are two sets of **bottom diagonal braces** (6x6). Install the **upper bottom diagonal brace** first. Depending on your wood sizes you may be able to avoid the **vertical tension rod hole**. If not, drill the **vertical tension rod hole** through the **upper bottom diagonal brace**. Use your drill bit to carve out a groove for the **lateral tension rods**.

UPPER BOTTOM DIAGONAL BRACE VIEWED FROM TOP.

24



NOTE: Do not install the end most bottom diagonal braces until Step 34.

LOWER BOTTOM DIAGONAL BRACE VIEWED FROM BOTTOM.

Install the **lower bottom diagonal braces**. (Sorry about the part names... I don't know what else to call them!) The end most **lower bottom diagonal brace** is glued to the side of the **side plate shoe**.