DSPIRA Horn Telescope Cradle Assembly

MATERIALS NEEDED:

two 20” long 2 × 2’s

two $9\frac{5}{8}$ " long 2 × 2’s

one $6\frac{11}{16}$ “ long 2 × 2

three 9 “ long 2 × 2’s

Note: These eight 2”× 2“ pieces can be cut from a single 8’ long piece.

one ¼ “ plywood piece, 7” × 8”

2 ½ “ construction screws for assembling 2 × 2’s - need approximately 10

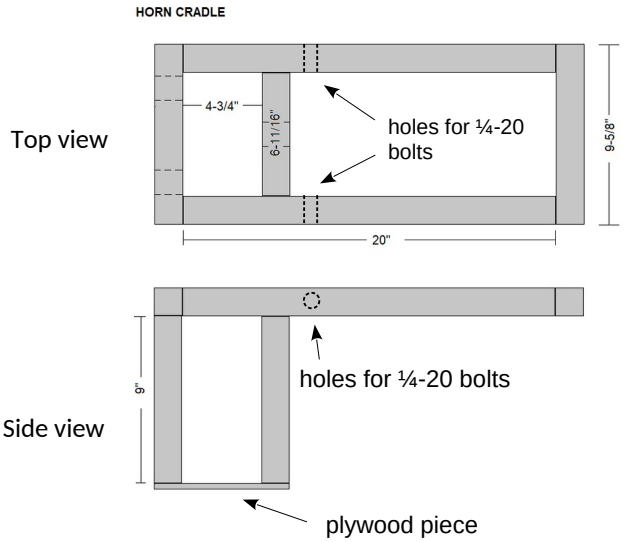
1” or 1 ¼ “ construction screws – for attaching the thin plywood base to the cradle

two 3 ½ “ long ¼-20 bolts - for attaching the cradle to the stand

two ¼-20 wing nuts

ASSEMBLING THE CRADLE:

1. Using the 2 ½ “ screws, assemble the 20”, $6\frac{11}{16}$ “ and $9\frac{5}{8}$ “ pieces into a rectangle with a cross bar, as illustrated in the *top view* diagram to the right.



2. Attach the two 9” pieces extending downward from the corners at the left end of the rectangular frame and one 9” piece from the midpoint of the $6\frac{11}{16}$ ” crossbar.
3. Use the construction screws to attach the ¼ “ plywood piece to the bottom of these three extensions. This should form a structure that the can can fit into.
4. Drill $\frac{5}{16}$ " holes for the ¼-20 bolts for connecting to the stand.
5. One purpose of the plywood piece is to provide support to the cable that attaches to the LNA. It is recommended that after the horn is assembled, attach an LNA to the can to see where to drill a hole (or slot) in the plywood. This is a matter of personal preference.

assembled cradle