Now we build up the horn flare from the motor chamber outward. First, glue the throat panel brace in place. You might want to drill shallow holes and use a short 1/2" dowel section as a positioning pin.

Motor chamber and throat panel brace

Attach the throat panel and the upper braces.

Throat expansion and braces

Attach the top and nose pieces. Both sides are attached to make sure fit is good. One side is glued and permanently attached, but the other side is only temporarily screwed in place.

Throat panel and top

Rear view of motor chamber with sides and top attached

Prepare the back panel by cutting the connector panel hole and applying the finish coat. You won't want to paint after the panel is in place, so do it ahead of time. After it is dry, you can attach the back panel and connect the internal wiring. Notice the braces between motor chamber and back panel. Having the side mounted lets you check fit. This photo was taken after the back was already mounted and the side removed for easier access to horn internals.

Internal wiring

Similarly, the angled pieces in back must have their finish coat applied in advance. The top piece mounts a handle and the bottom piece mounts castor wheels. Notice the holes drilled for the castor wheels in the picture below.

Back and Bottom

Cut holes and insert T-Nuts to mount the handle. Here we've test fit the handle before removing it again to provide the finish coat.

Back and top

Back and side

Face down

Attach braces for the diagonal pieces, both top and bottom. The bottom ones should be placed immediately above the castor wheels, to provide strength in this area. The braces on the top panel should be placed near the handle mounts to provide extra strength too. Mount the wheels and handle.

Bottom corner braces

Top corner braces

Add the braces for the mouth area, and then attach the side. Glue them in place and the horn is finished, ready for painting.

Front view, before paint

Side view, before paint