HALLIBURTON CAR

The Prototype:
In 1961, the Halliburton Company introduced a railcar designed to carry dry products such as cement, pozolin (an additive) and fly ash in bulk, basic dry products for mixing drilling mud to control hydraulic conditions while drilling oil wells. The basic car was built by Pullman-Standard with the tanks, tank supports, piping, running boards and ladders being fabricated and installed by Halliburton at the Duncan, Oklahoma shops. The cars are numbered HWCX-50 through HWCX-199.

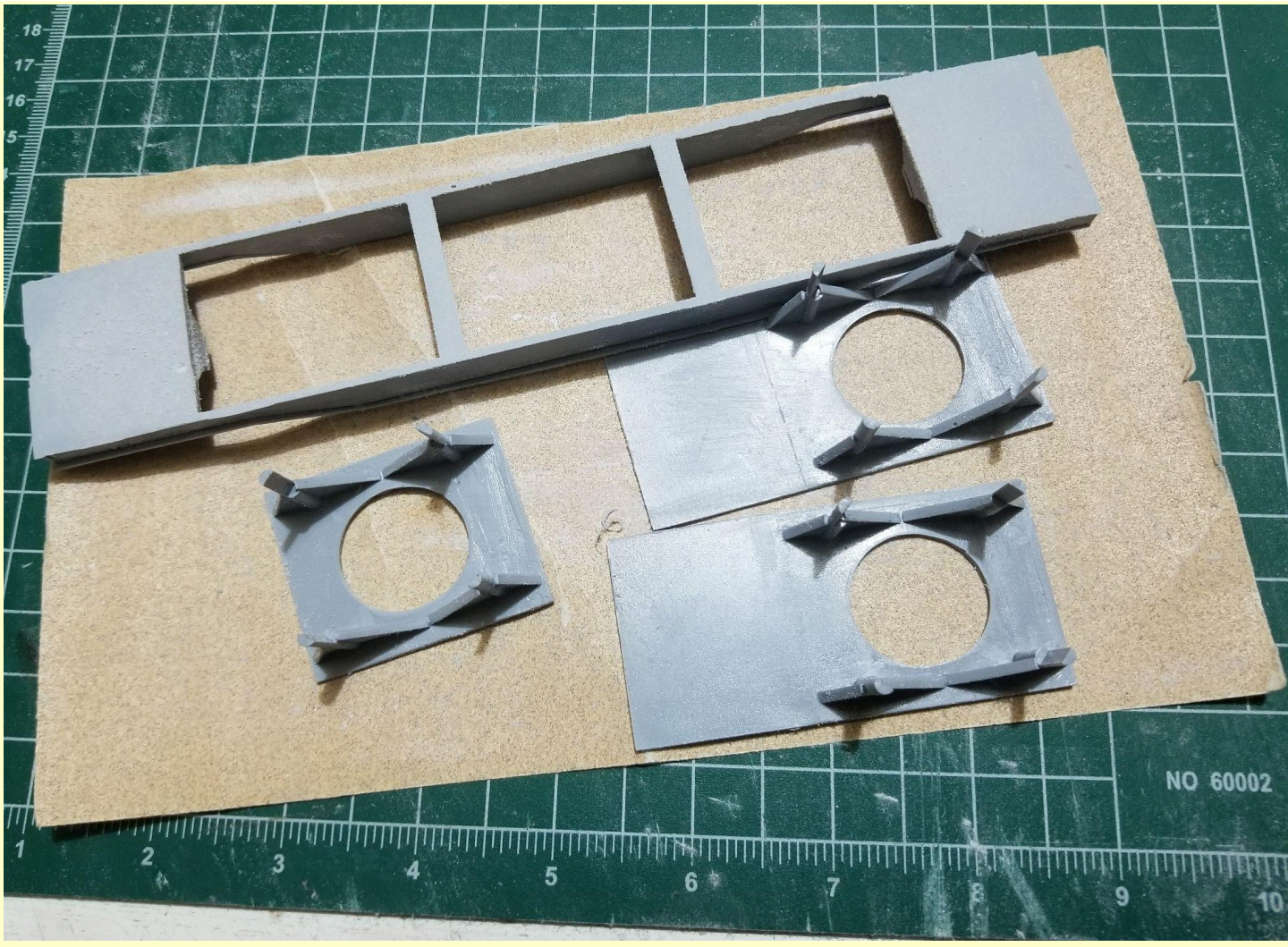
The Model:
This unique car was a challenge to produce. It is a joint project of Rumbling Rails and Pre-Size Model Specialties. It is my first model with custom etchings, and my first model with a two tone paint job meaning I had to learn how to mask.

Parts:
1- car frame
2- long tank frames
1- short tank frame
3- pvc pipes
3- tank tops
3- tank bottoms
1- etching
1- decal set

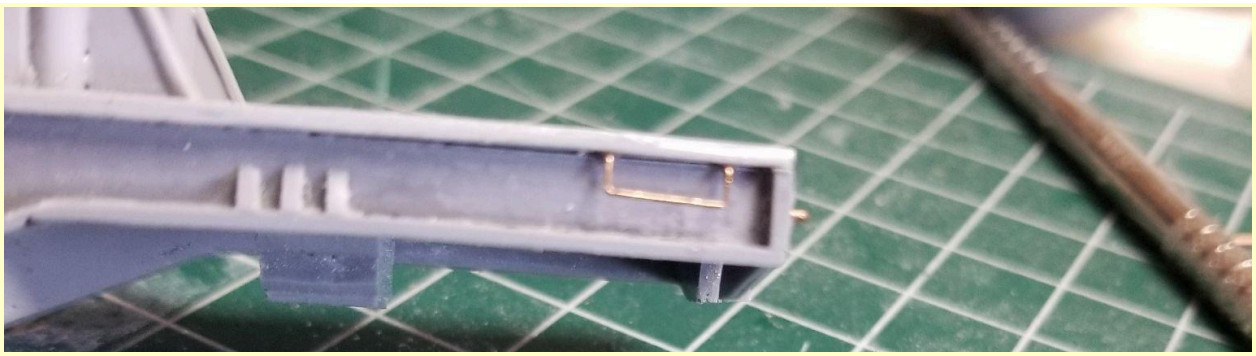
Detail Bag:
2- U stanchions
2- L stanchions
1- brake stand
1- brake wheel
2- tank spacers
1- set of roofwalk braces
4- stirrups
1- eye link
1- chain, 5 links
4- drop grabs
4- straight grabs
1- .08” rod x 4-7/16”
1- ⅛” tube x 4-⅛”
1- wire connector
12- braces

INSTRUCTIONS

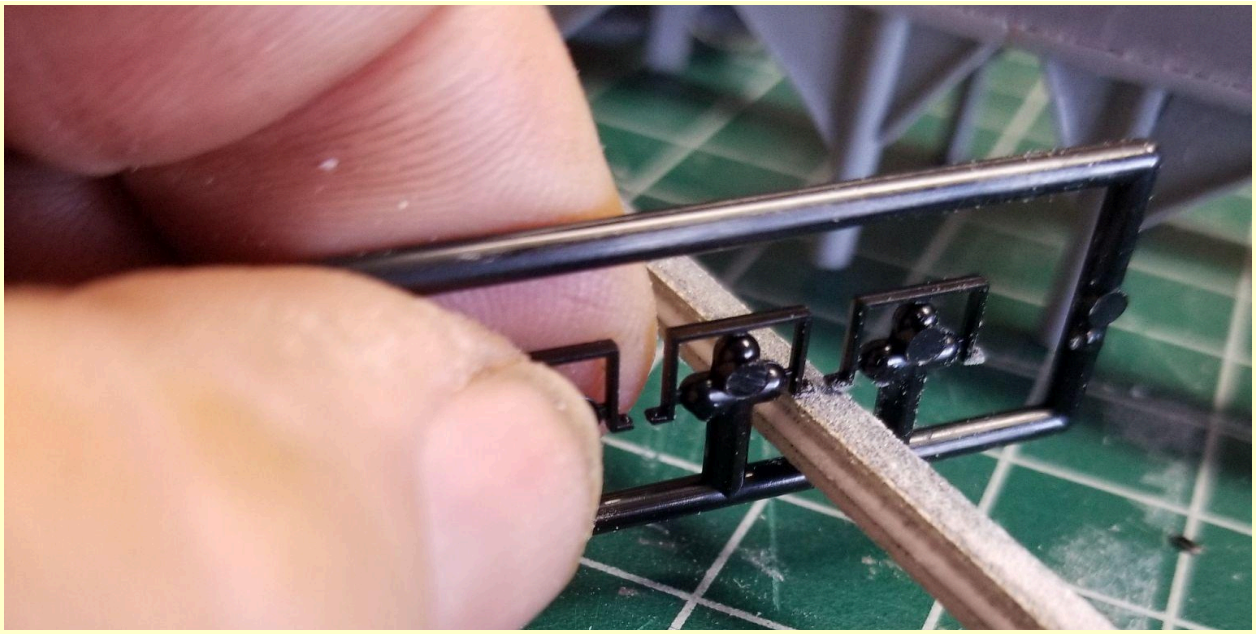
Check to make sure all parts are included. Start by cleaning the flash off the main resin castings.



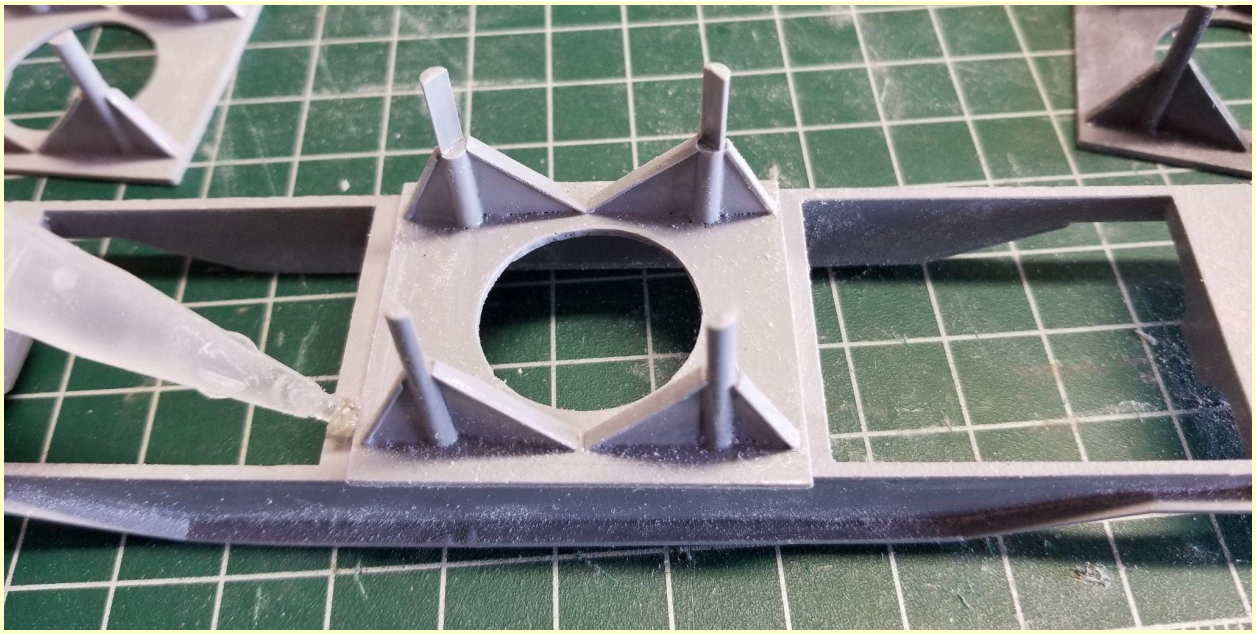
Next let's add details to the frame. Start with the grab irons, straight on the ends and drop on the sides.



Drill holes for the trucks and for the couplers. Do not mount yet. Locate the set of stirrups, and before removing from the sprue, sand the glue surfaces. Remove from the sprue and ACC on the car frame.

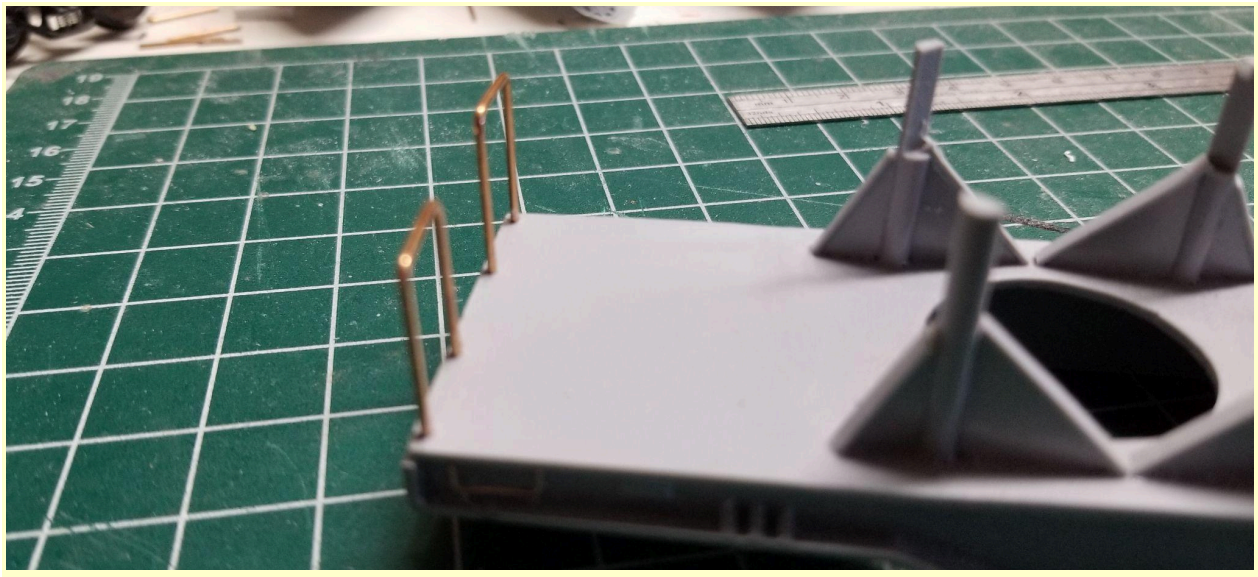


Now we're going to mount the tank frames. Start by placing the short frame in the center of the car frame. Then place the two long frames on either side. Position the frames so they are centered in both directions. Carefully remove a long frame without moving the center frame. Apply a small amount of ACC to attach the center frame.



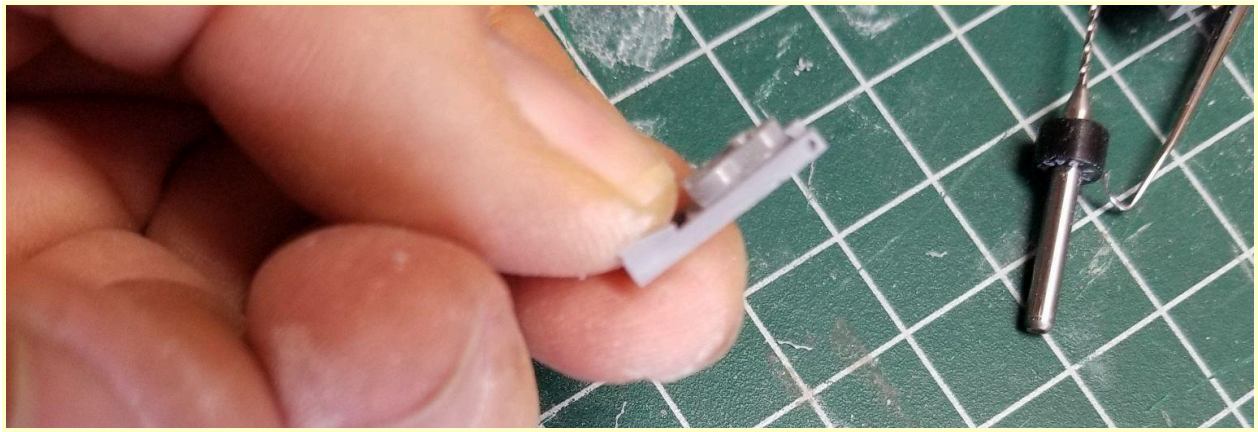
When the ACC has set you can replace the 2 long frames and attach with a few drops of ACC. Now turn the car over and apply ACC to firmly secure the frames.

On one end of the car drill holes and install the 2- U shaped stanchions.

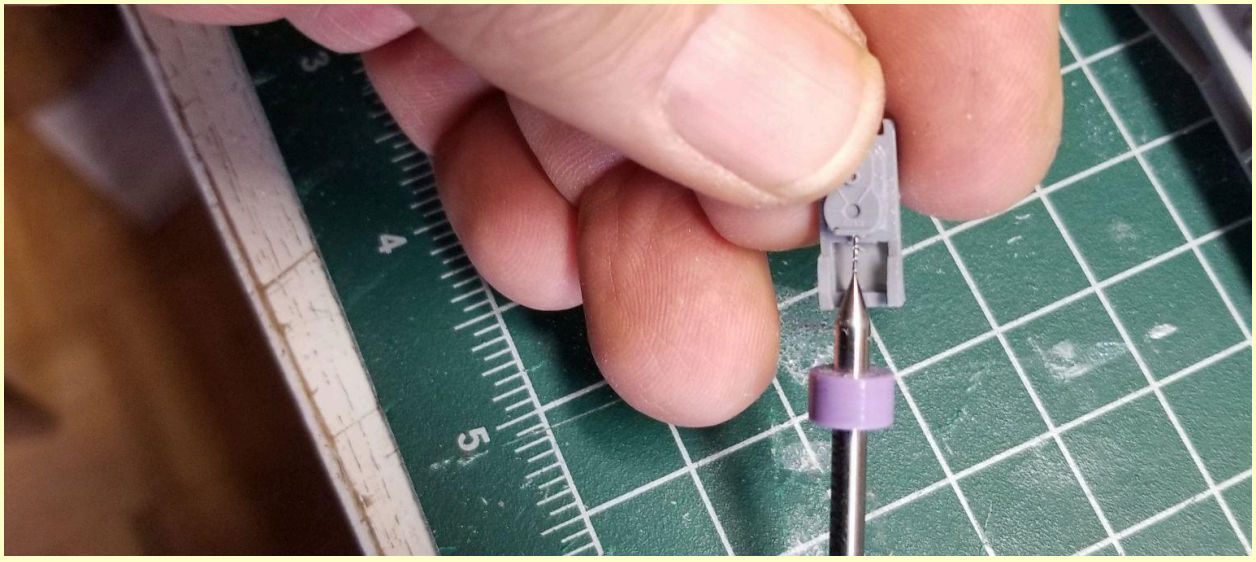


On the other end of the car goes the brake stand. Start by cleaning the flash off the brake stand.

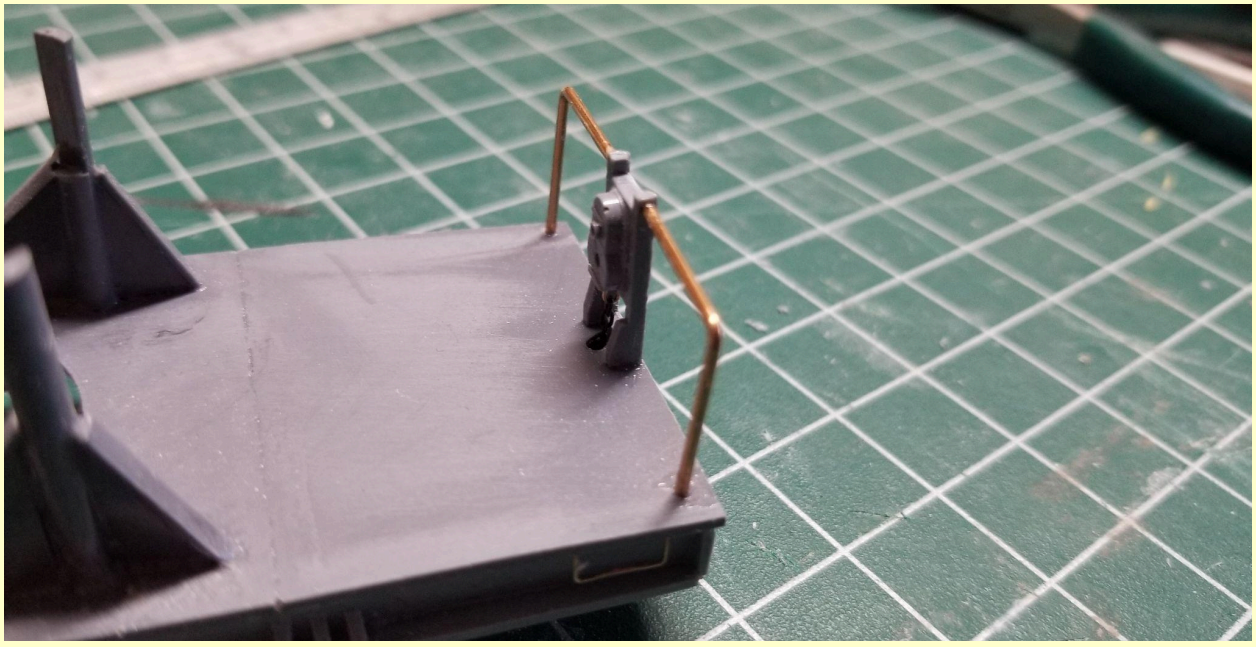
Next drill a hole in each side to accept the L railings.

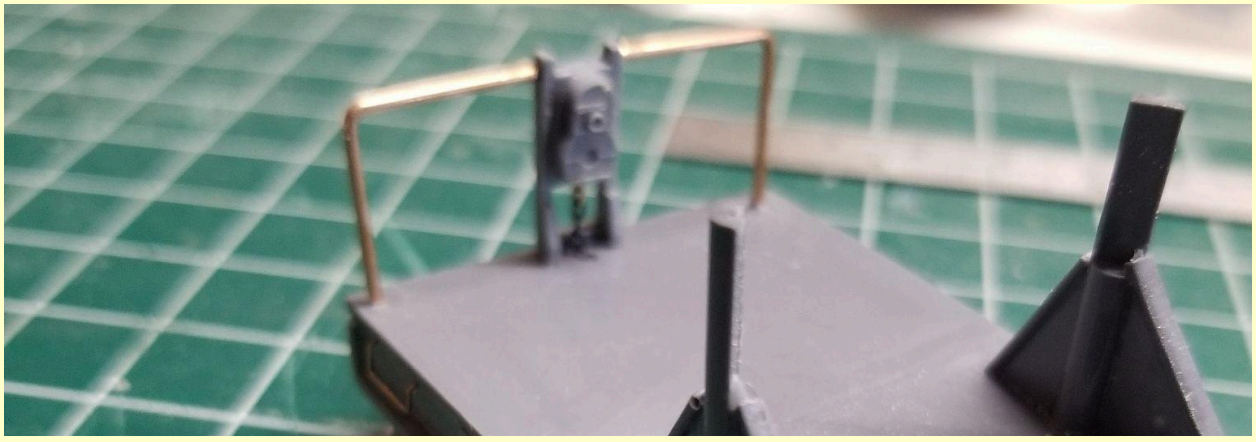


Now drill a hole to accept the eye link.



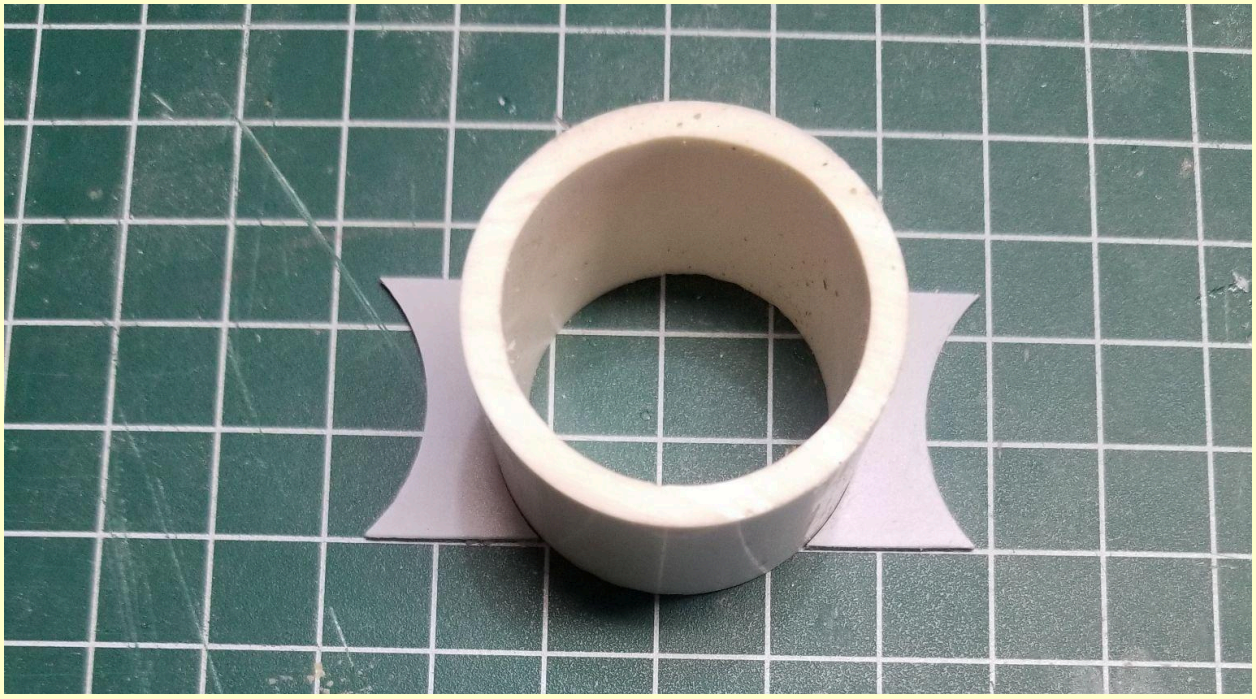
Now hook the chain onto the eye link and close the eye link. Put a drop of ACC on the stem of the eye link and insert it in the hole. Mark the center of the end platform and drill a hole for the chain to drop into. Glue the brake stand on the end of the platform. Drill holes in the platform to accept the L stanchions. You may need to trim the L stanchions. Glue the L stanchions in place.





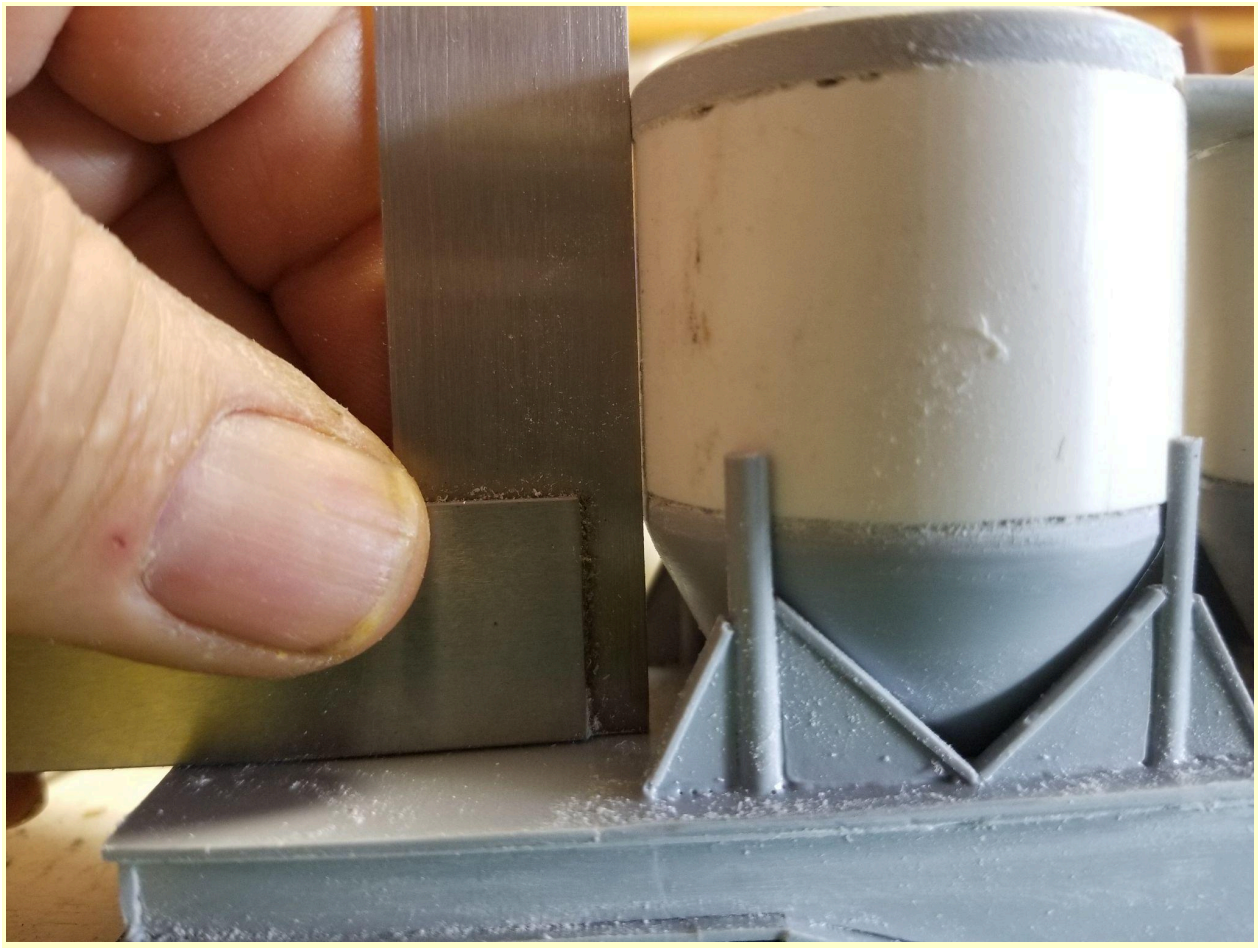
Now let's work on the tanks. Sand the ends of the pvc pipes on a flat surface, and sand the lettering off the sides of the pvc pipes. Sand the sides of the tank spacers. Wrap sandpaper around a pvc pipe and sand the concave surface of the tank spacers.

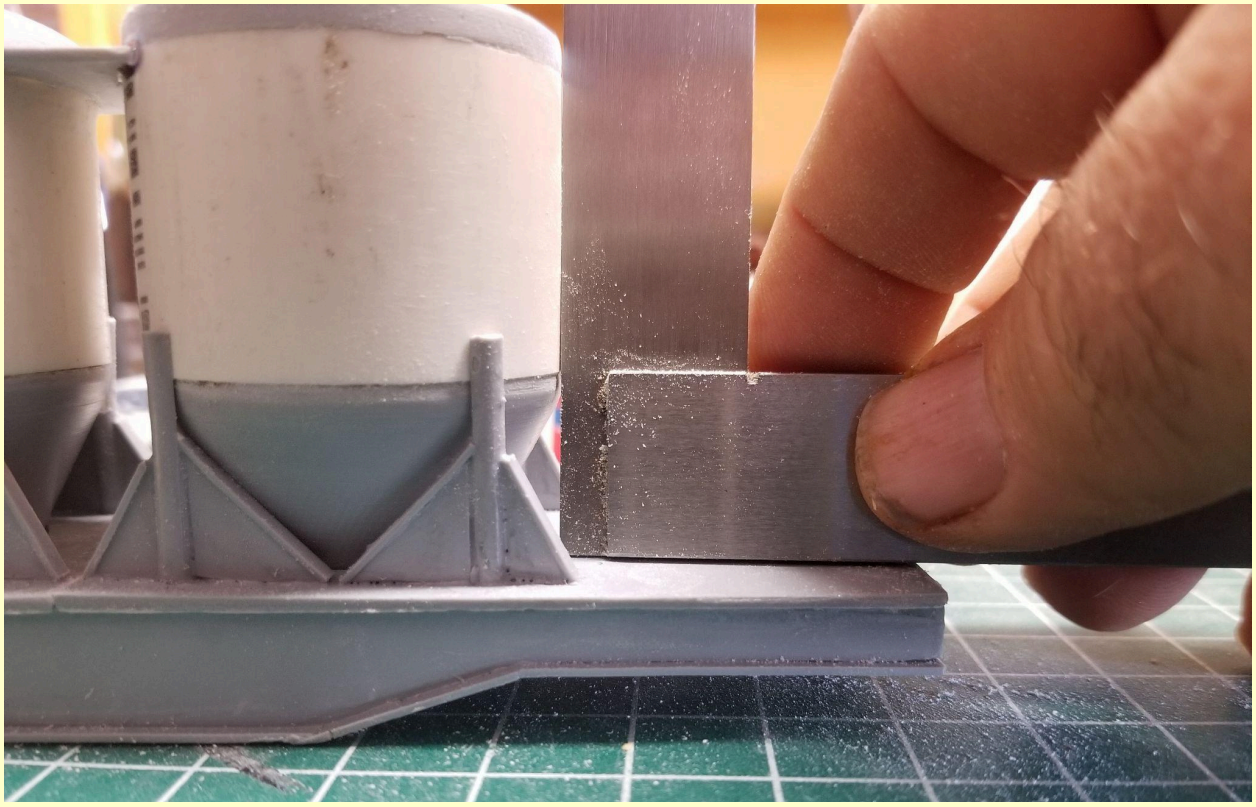
Now place 1- pvc pipe and the 2 spacers on a surface with a straight line. Make sure the edges of the spacers line up with the straight line. Glue the spacers to the pvc pipe.



When the glue has set, glue the tops on the pvc pipes (next to the spacers). Then glue the bottoms on the pvc pipes.

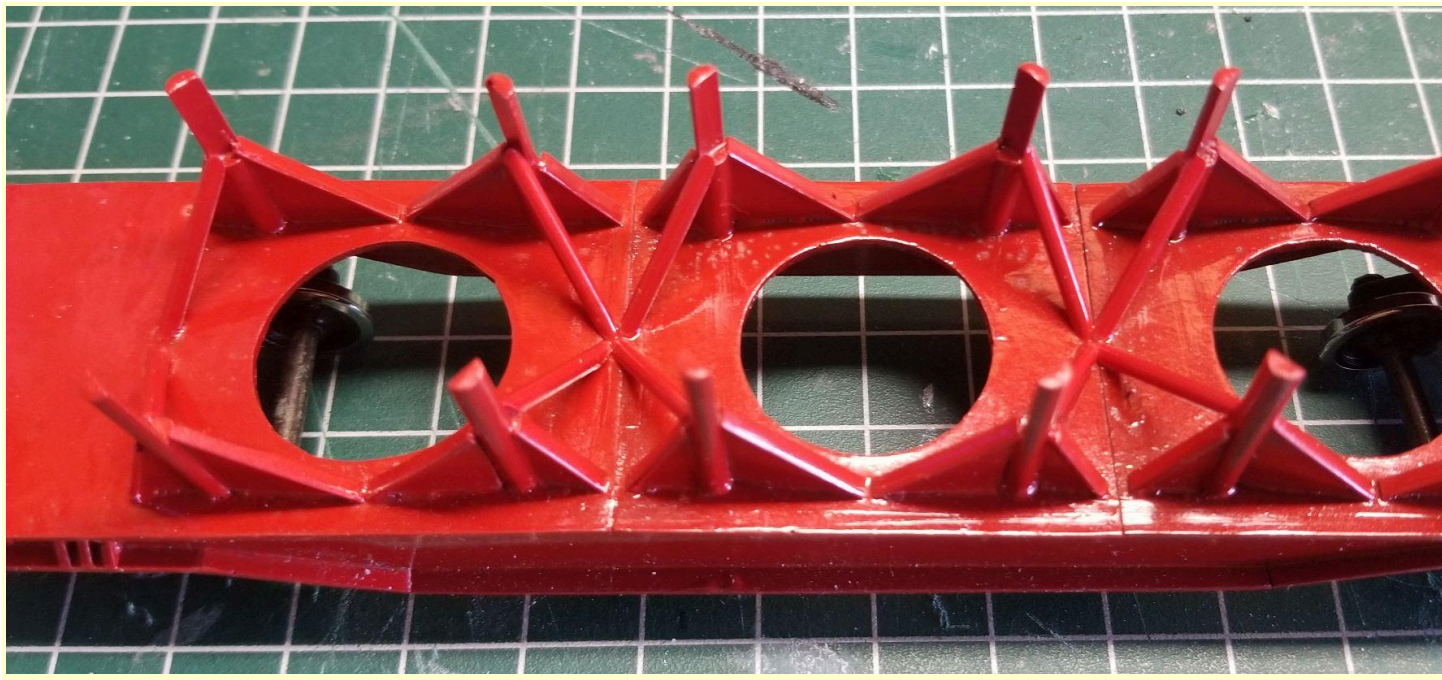
Now set the tank with the spacers in the center frame, and the other two tanks in the outer frames. Square up the tanks in both directions.





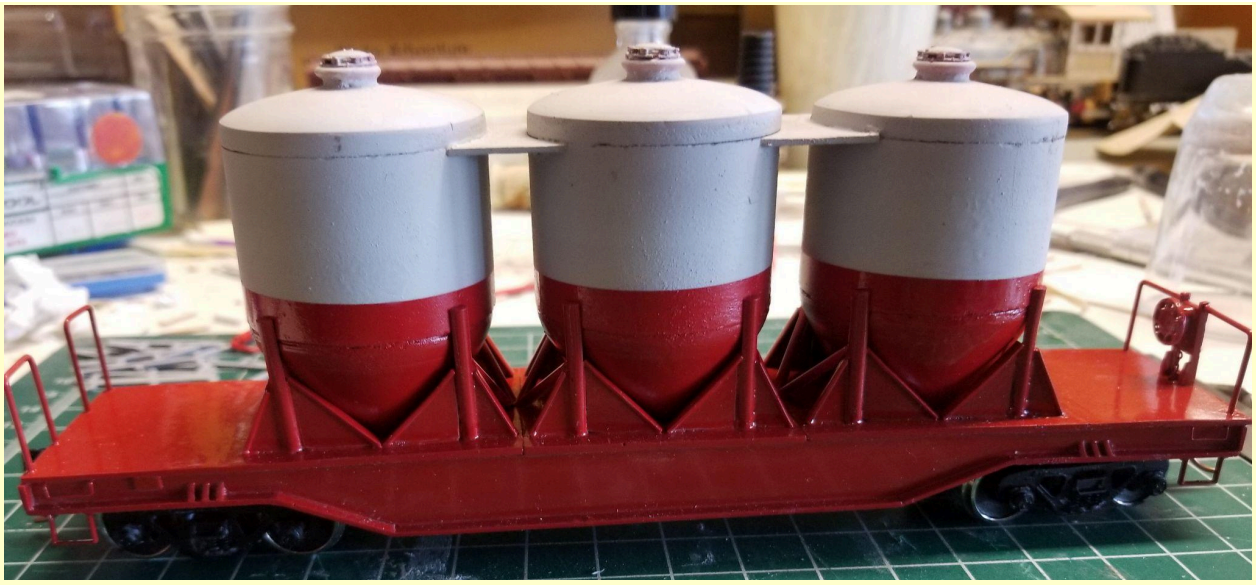
Now glue the outer tanks to the spacers. When that has set, remove the set of tanks and glue the spacers from underneath. Do not glue the tanks into the frames.

Pencil in a center line down the length of the car. ACC the 12 braces into the frames using the center line and the joints of the deck.

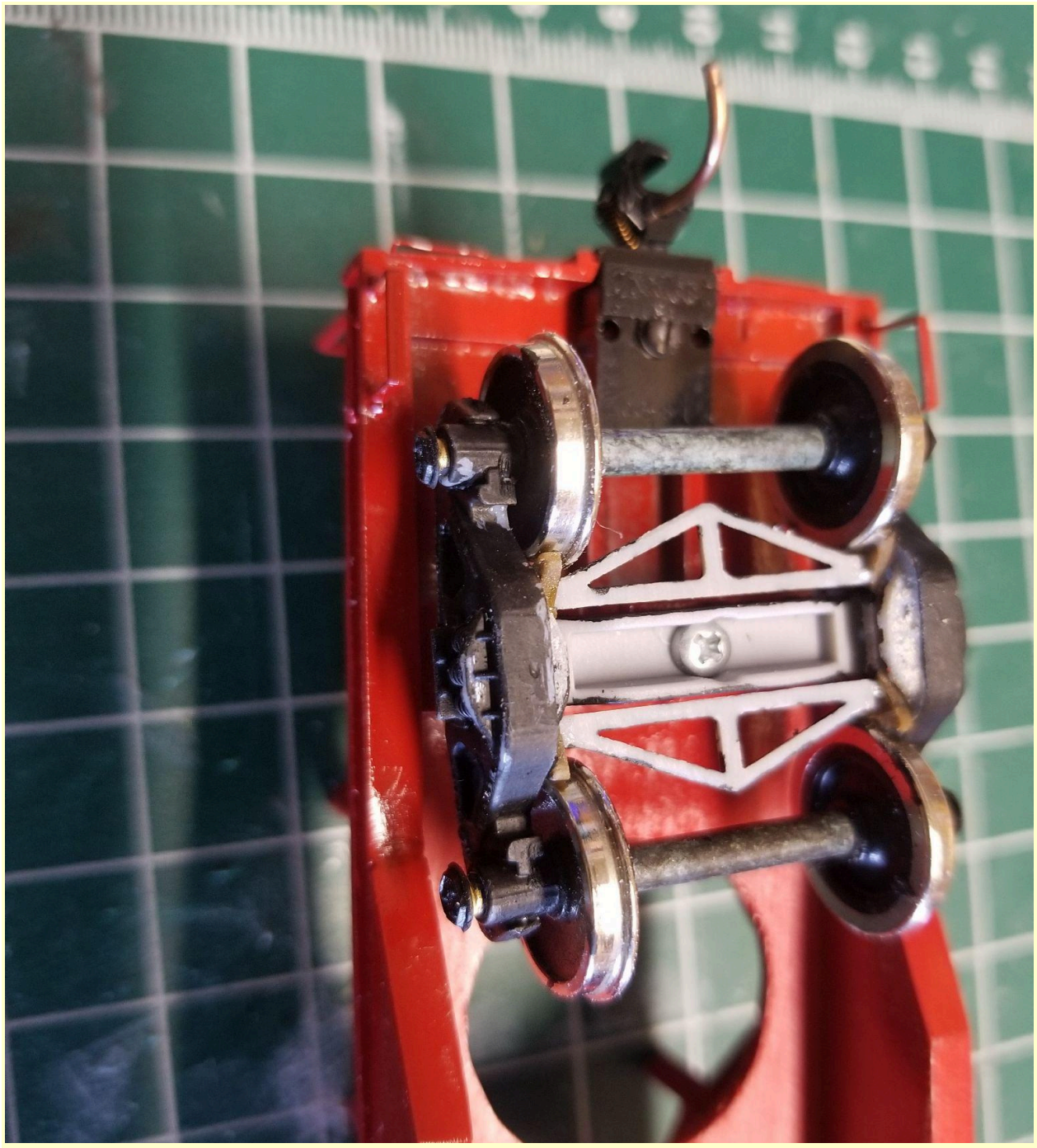


Glue the wire connector into the ⅛” tube. I used gel ACC.

Now you are ready for paint. You are probably more expert at painting than me, but I will describe how I did it. The main body and the bottom half of the tanks I did with a rattle can in a shade of red. Don't forget to paint the pipes. After several days letting it dry, I masked the bottom of the tanks and used an air brush (my first time) to spray the top half of the tanks in very light gray with acrylic paint. I could remove the masking tape in a few minutes.

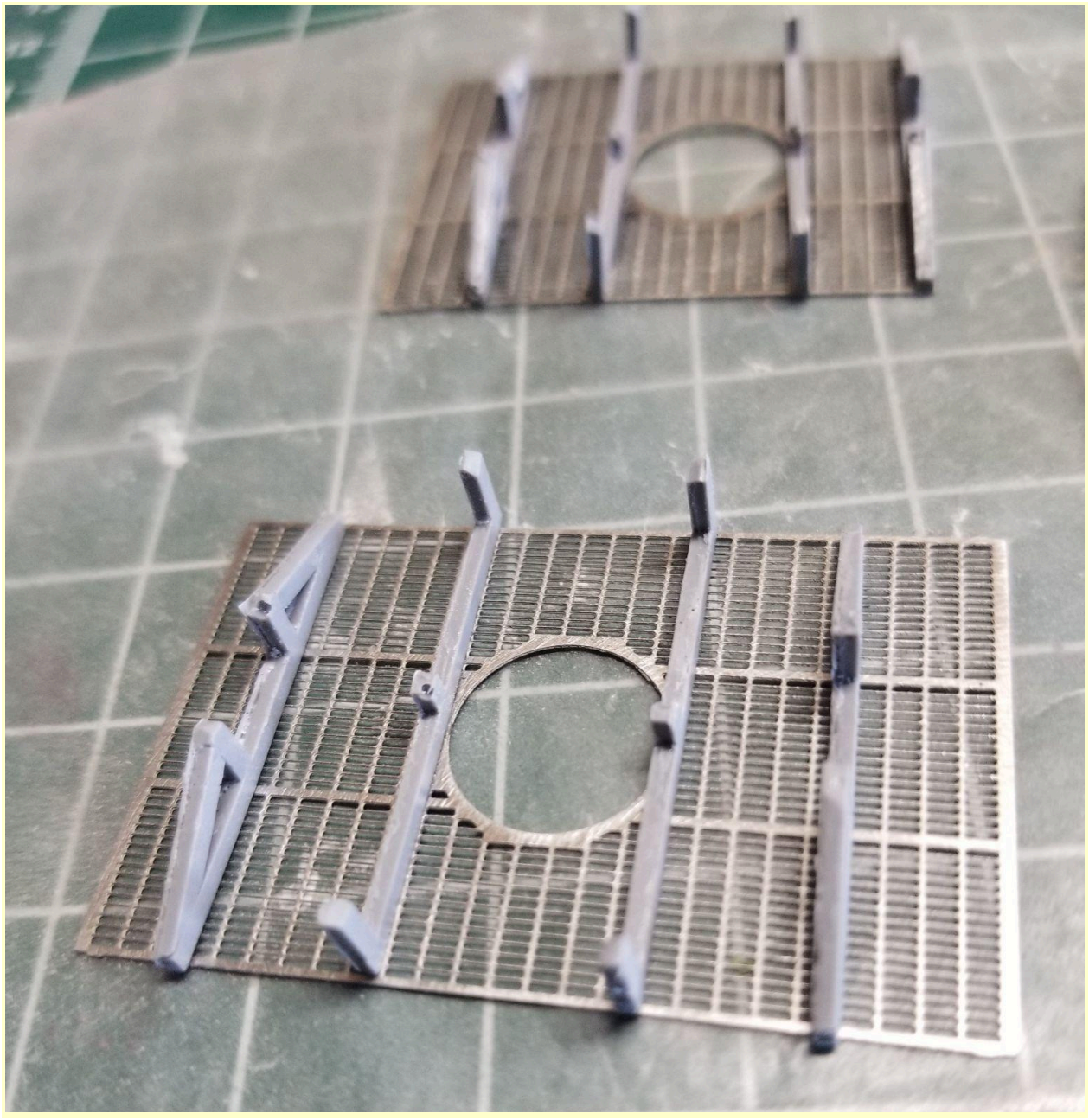


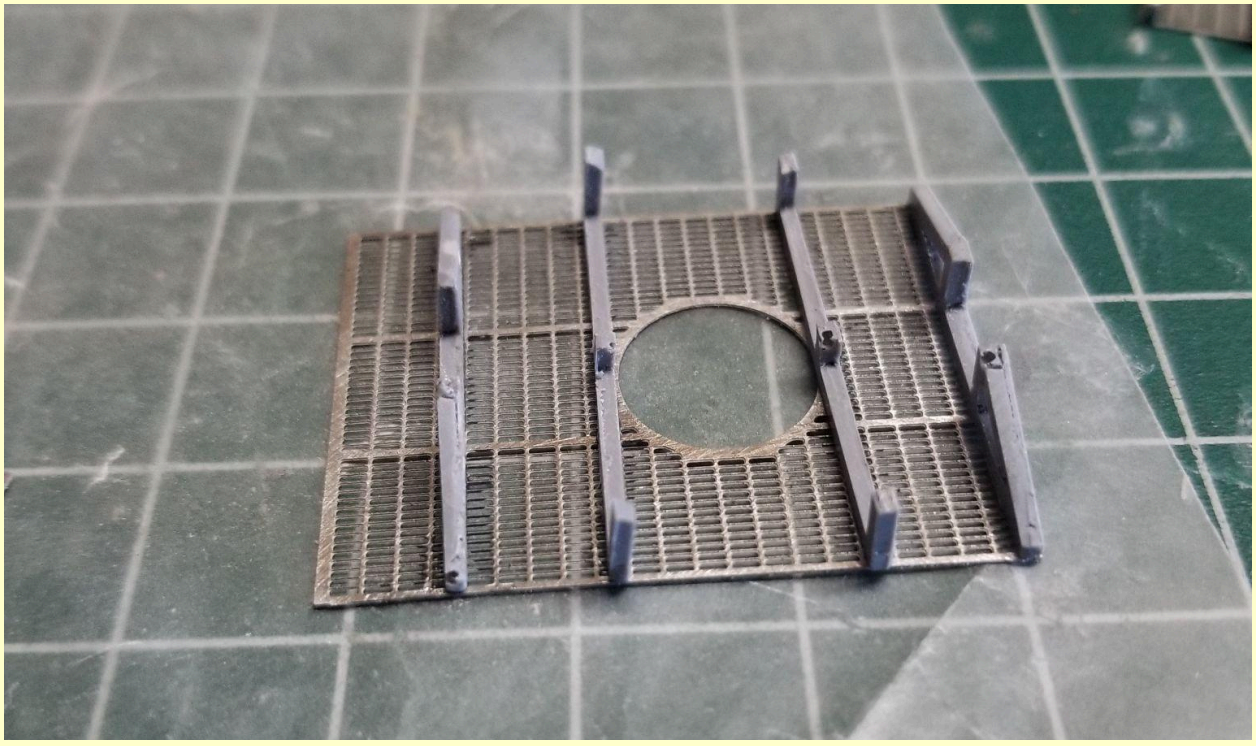
Install trucks and couplers.



Glue the tanks to the car.
With the brake stand to the right, ACC on the pipes.

Now remove the roofwalks and ladders from the fret. Sand the roofwalk braces until they fall out of the flash. Apply a small bead of ACC to each brace and glue it to the roofwalk. I do this on a piece of wax paper as some of the ACC may ooze through the roofwalk





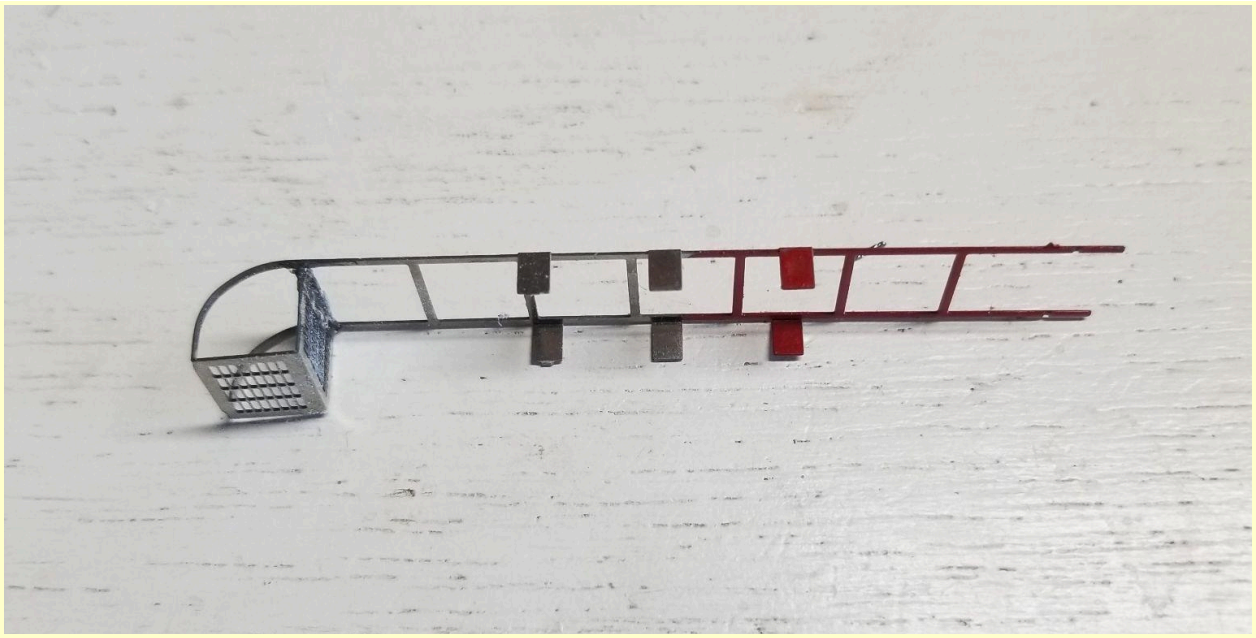
When the ACC has set, fit each roofwalk on top of a tank. Trim the brace legs so they all touch the top of the tank. At this point I brush-painted the braces with the light gray paint. When the paint is dry, place the roofwalks on the tank tops so the holes are centered and the edges line up. Take the center roofwalk off and put a drop of gel ACC on each brace leg and put it back on the tank.

Repeat this procedure for the other roofwalks.

While the roofwalks are setting up, let's address the ladders. There are thin lines etched in the ladders to make it easier to make bends. You always bend towards these etched lines. They are located on the six side tabs and on the upper two platforms. Now you know which way to make the first bend, which is a curve in the stiles at the top. Use a round object (I used the handle of a dental pick) and gradually form a curve until it is 90 degrees. Then grasp the stiles

with a needle nose pliers and make a 90 degree bend at the first platform. Then grasp this platform with needle nose pliers and make a second 90 degree bend at the last platform. This will bring this last platform back to the ladder where little tabs will insert into little holes. You may want to ACC these tabs. Now you can see how far down the ladder needs to be set into the floor of the car, and where the paint line needs to be on the ladders to match the paint line on the car. Use masking tape to set the paint line and paint the bottom of the ladders red.

After the paint has dried, using your needle nose pliers to hold the stiles, bend the six tabs at a 90 degree angle.



Hold the ladder against the tank and mark the spots for 2 holes in the floor of the car. Drill the holes. Put the ladder stiles in the holes and ACC the top of the ladder to the tank and to the roofwalk brace. Put a drop of ACC where the stiles go in the holes and where the tabs touch the tank.

Apply decals. And you are done.


HALLIBURTON
HWCX 118
LD LMT 158100
LT WT 62100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Here is a website with several photos of the prototype.
https://www.railcarphotos.com/ Go to “search photos” by “reporting marks” and scroll down to HWCX.