

N Scale COIL CAR kit



Thank you for purchasing this kit. We have done our best to make the most accurate and detailed model. This kit is made from 3d printed and etched parts. You may not be familiar working with these mediums, so please read through the instruction sheet prior to starting your kit, to make sure you don't damage components. Refer to the photos carefully when removing items from the fret, to make sure you don't remove the wrong parts or cut them in the wrong place.

You will need the following tools and supplies to complete the kit:

- X-Acto knife with fresh #11 blade
- 400 grit sandpaper
- CA glue, both thin and gap filling
- miniature flat screwdriver
- tweezers
- small files
- Micro Trains 100 ton roller bearing trucks
- Micro Trains 1015 couplers
- pin vise with #65 bit

The following printed parts are included in each kit:

- 1 body
- 1 hood (in relevant kits)
- 2 bolsters
- 4 handrail/stirrup step assemblies
- 2 truck bushings
- 1 handbrake stand

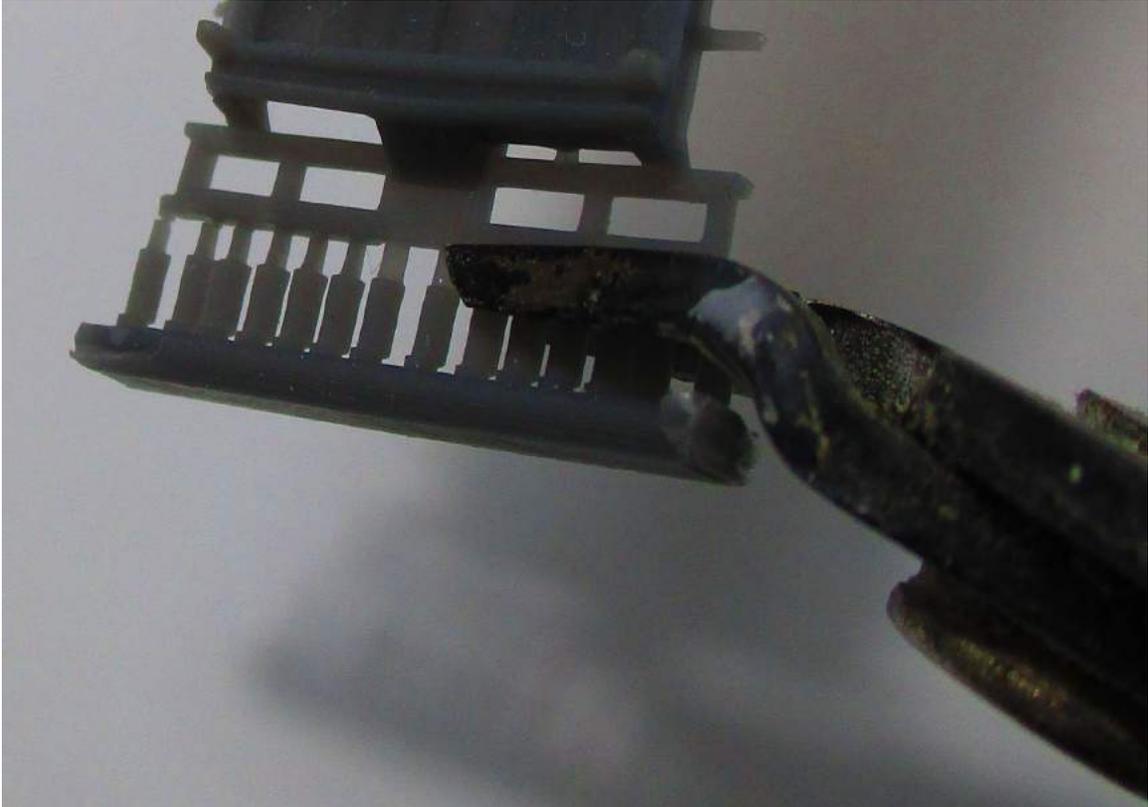
The following etched metal parts are included in each kit:

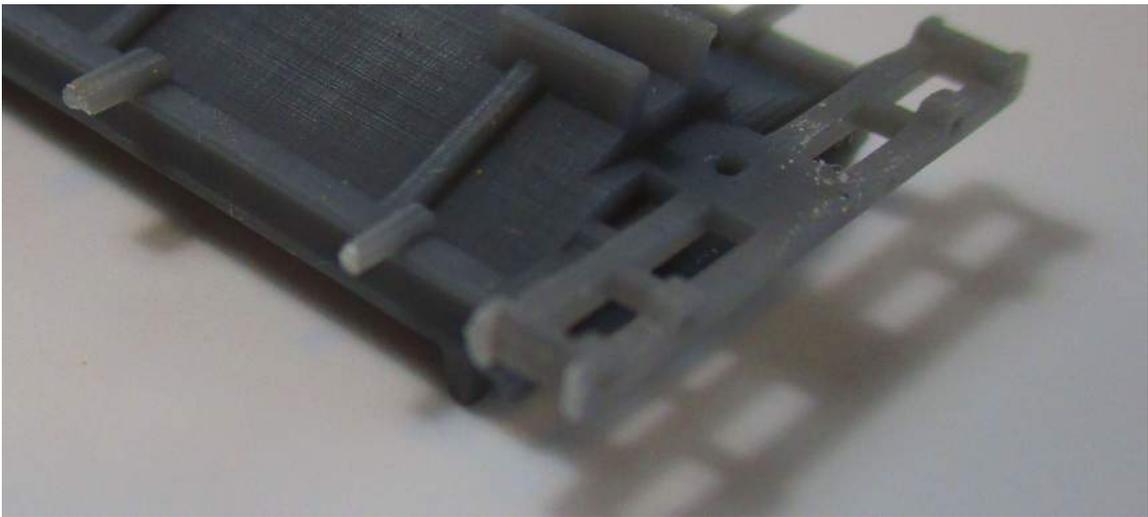
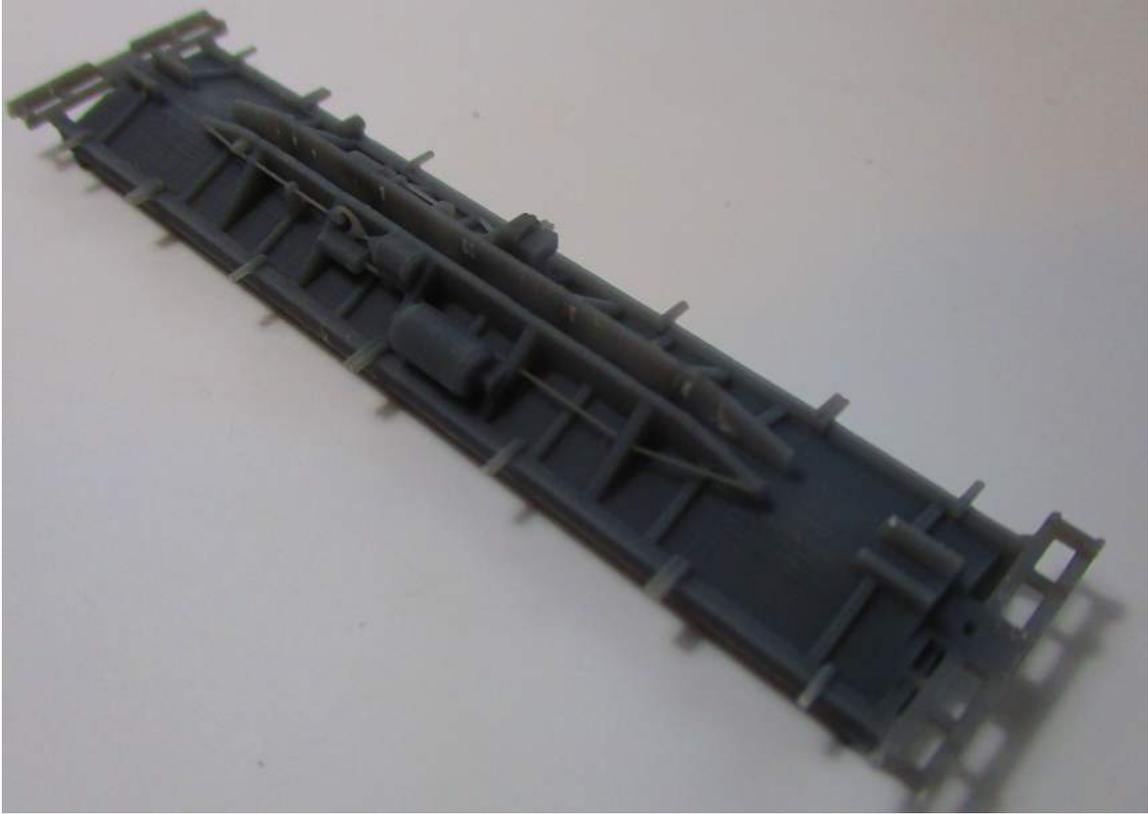
- 1 walkway
- 2 cut levers
- 4 handrail/stirrup step assemblies
- 4 end sill grab irons

- 4 hood corner grab irons (only used on kits with hoods)
- 6 hood handrails (only used on kits with hoods)
- 1 brake wheel
- 1 handbrake stand grab iron

Also included are two screws for the trucks, a weight for the center sill, and a decal sheet.

1. Remove the body from the sprue. When detaching the ends of the walkway supports from the sprue, use a pair of flush cutters, and start at the top, away from the larger base. Work your way down to the base. Some of the supports are very small, so make sure you only remove sprue material. Sand the spots where the sprue was attached to make it smooth.





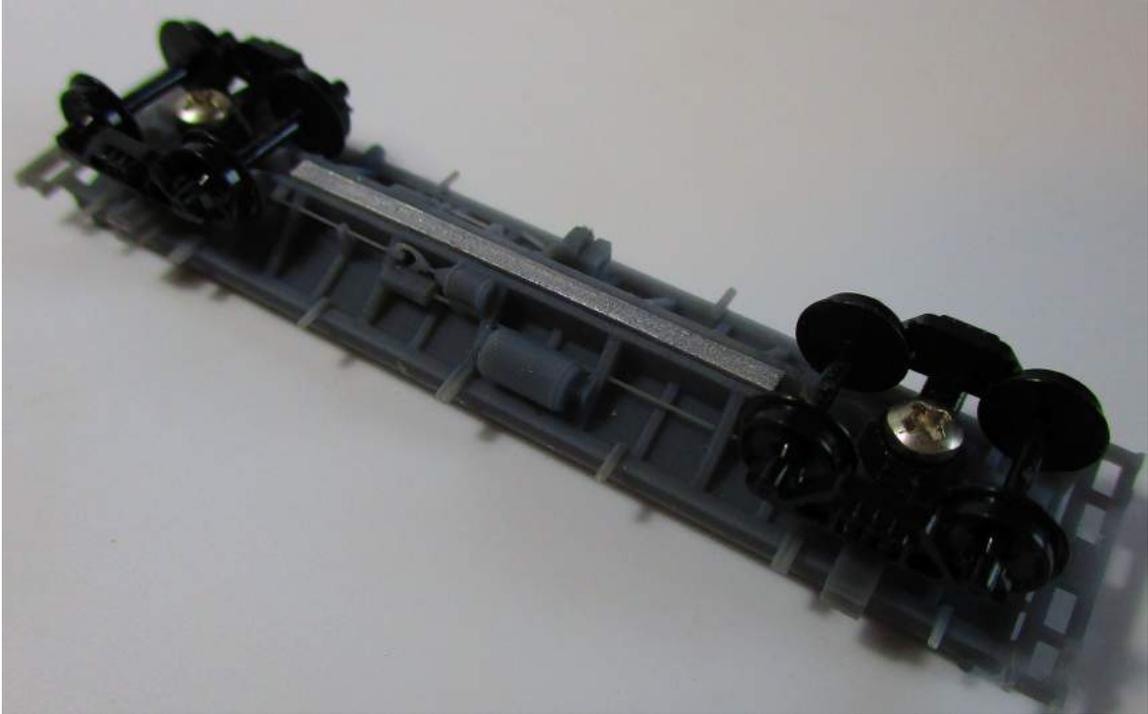
2. Glue the weight in the center sill. My weight is a pre-production part so it looks different in appearance to the weight supplied.



3. Remove the bolsters from the sprue. Sand the sprue attachment points on the bolsters. Test fit the bolsters on the body but do not glue yet. Once you are satisfied with the fit, decide if you wish to use Micro Trains truck pins or screws to attach the trucks. If you are using screws, use the bushings included. Press the pins in place, or screw the screws into the holes. If using the screws, screw them in a bit at a time to create threads. Remove them. Glue the bolsters in place with gap filling CA, then attach the trucks. Check the Micro Trains trucks for flashing in the hole. In the set I got, there was a little flashing which I removed by twirling the end of a flat needle file in the hole.



4. Drill the coupler mounting holes #65. Trim the screws so they don't go through the body and screw the couplers in place. On one end, the end sill needed to be thicker for printing. The edges of this area may need to be filed a bit so the coupler box sits down flush. Check coupler height. I used the MT 1015 short boxes with medium shank couplers, to simulate the extended length shanks on the prototype. You might want to use the standard length shanks, as they are oversized anyway.

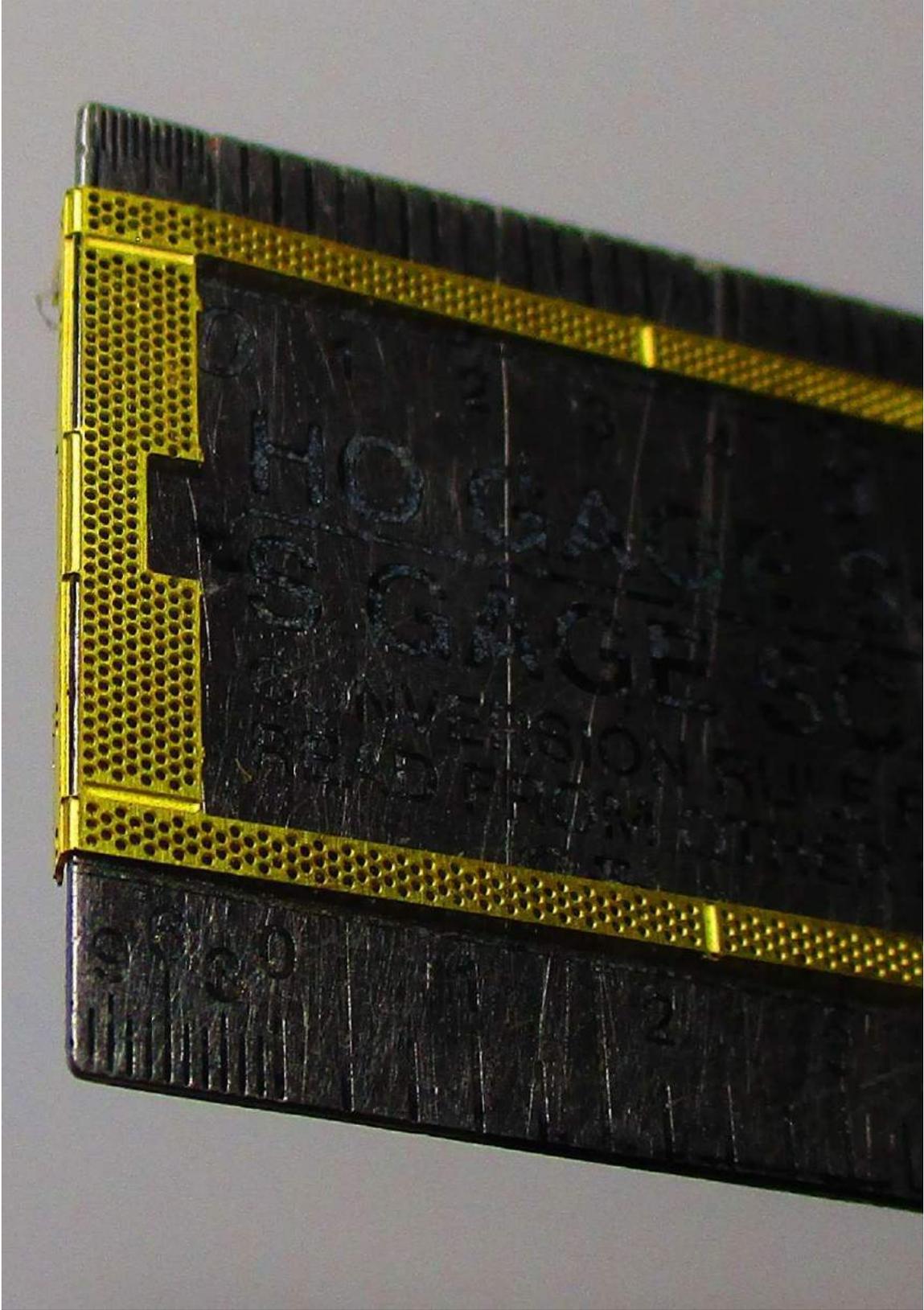


5. The car is not very heavy. If you install metal wheels on an empty car, it should still track well, or you can install a weight under the hood, or in the form of a coil load.

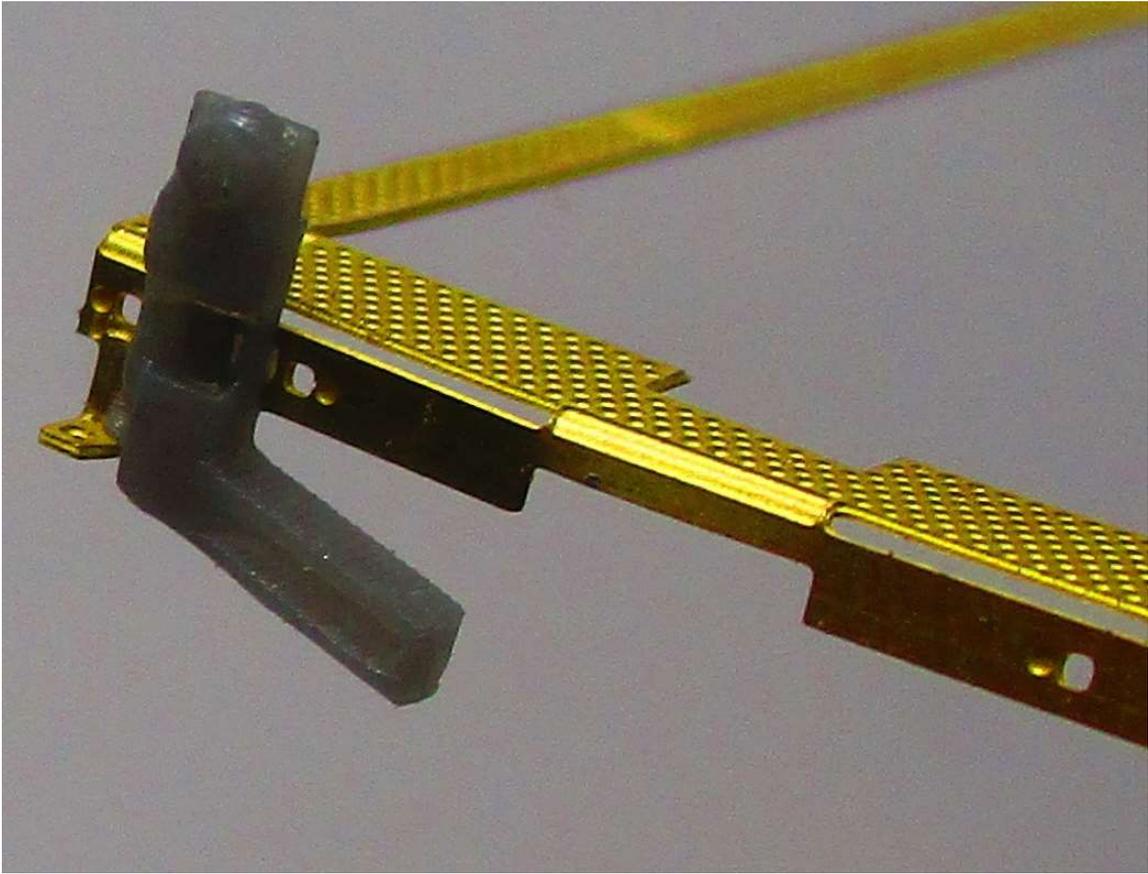
5. Remove the trucks and couplers for now and set them aside.

5. Remove the walkway from the fret. Use a peice of plexiglass and a fresh XActo knife blade to do this, as I find it warps the parts the least. Once you have removed the walkway from the fret, bend down the end sills and bend up the cut lever brackets as shown in the photo. Leave the walkway off the car until painting, as the walkways on these cars are generally oxidized aluminum in color.

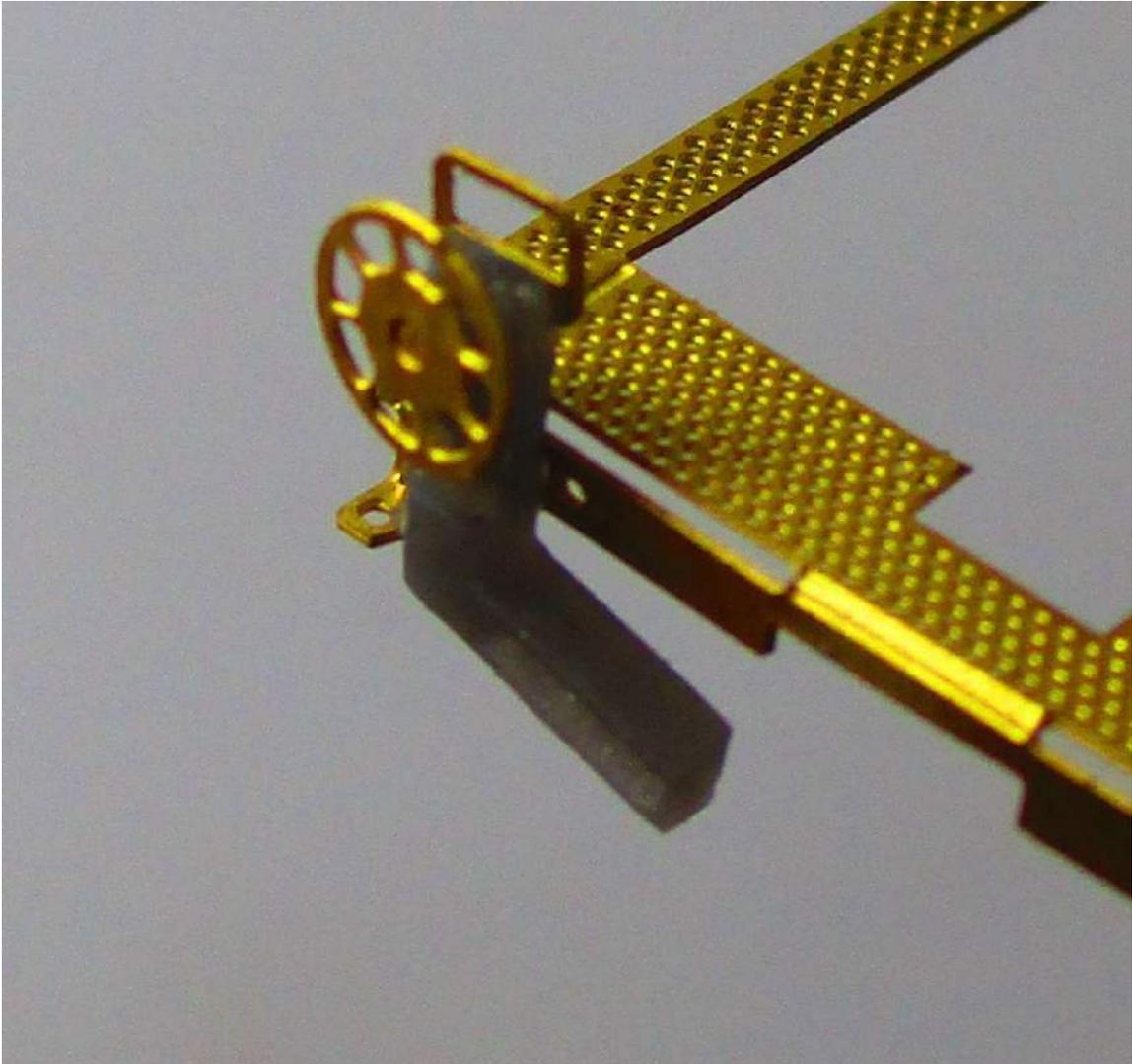




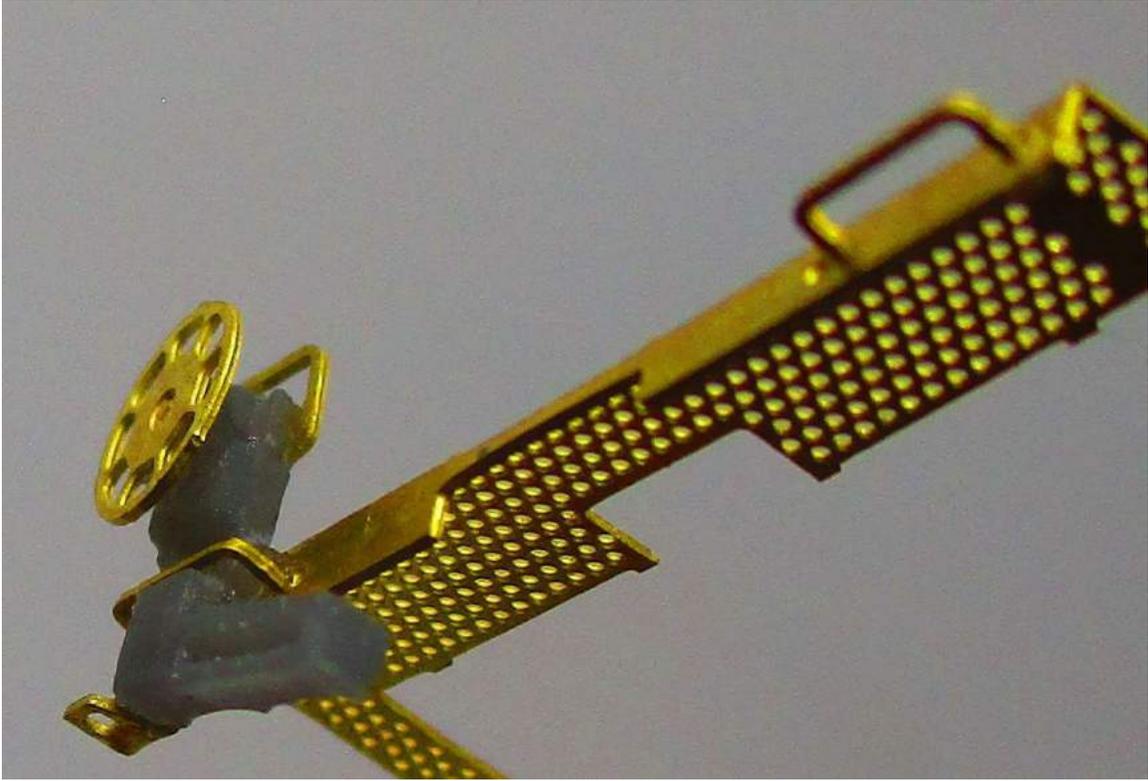
6. Inspect the walkway. One end sill has an extra couple holes for the handbrake stand. Glue the handbrake stand in place. Make sure you don't plug the grab iron holes on either side of the handbrake stand mounting holes.



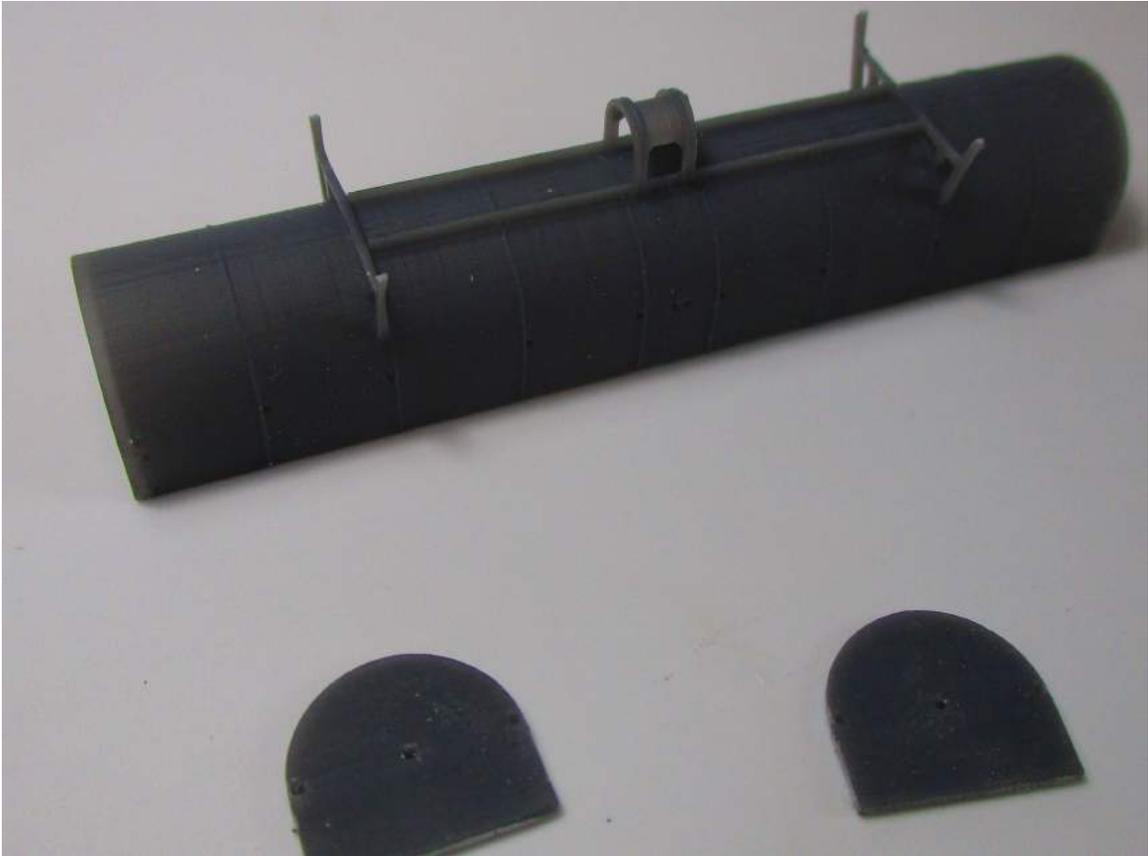
7. Remove the handbrake stand grab iron from the fret and glue it to the back of the handbrake stand. Remove the brake wheel from the fret and glue it to the handbrake stand. I like to use Micro Scale crystal clear for this, as it sticks to everything and stays a bit flexible.



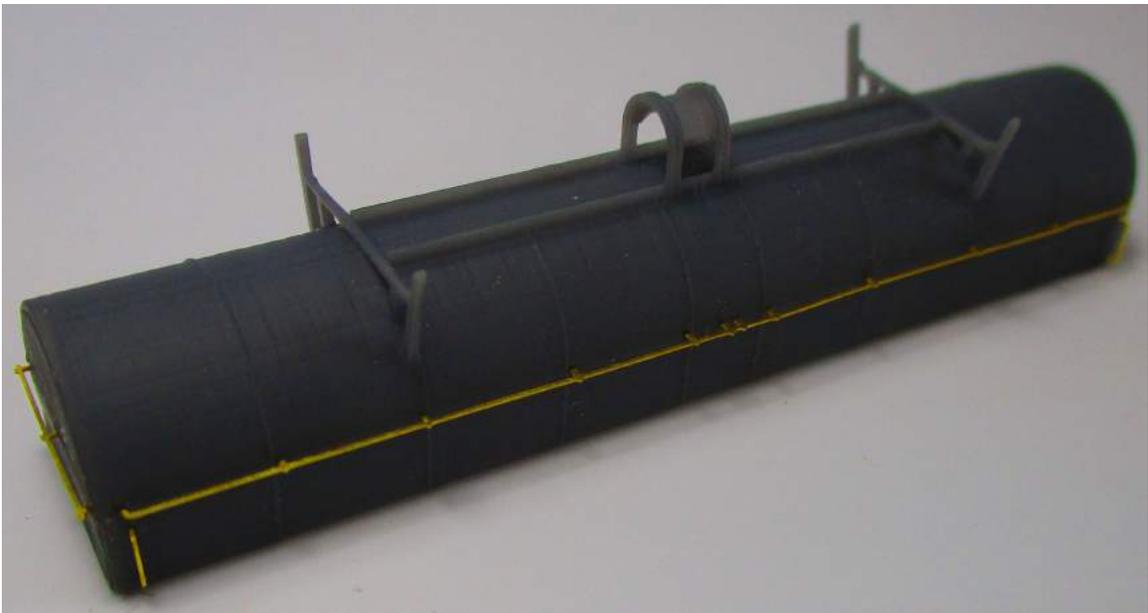
9. Remove the end sill grab irons from the fret. There are 8 grab irons on the fret, the two on the ends of the fret and two singly grouped ones are shorter and for the end sills. The four grouped together are for the hood. Glue them in place in the etched holes provided.



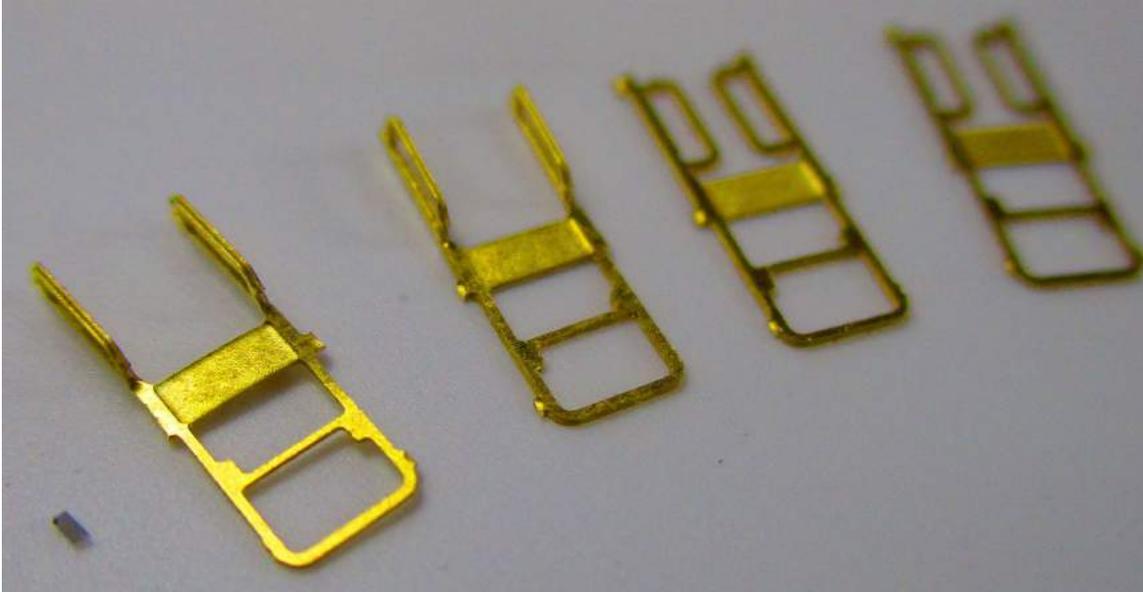
10. If you are building a unit that has a hood, remove the hood components from the sprue.



Pay close attention to the photo to make sure you remove the hood top supports from the sprue at the correct attachment points. Glue the ends in place. Take care you don't plug the grab iron and handrail holes. I forgot and had to open some of them up with a #80 drill bit. Check the fit of the hood to the body. If it is tight, sand the bottom corners of the ends a bit. Glue the hood handrails and grab irons in the holes provided. The hood is done, set the it aside.



11. Decide whether you would like to use the etched or printed handrail/stirrup step assemblies. The etched parts are finer and stronger, but personally I like the way the printed ones look. To use the etched parts- The etched ones didn't quite bend to shape the way they were intended, so cut them off the sprue as shown-



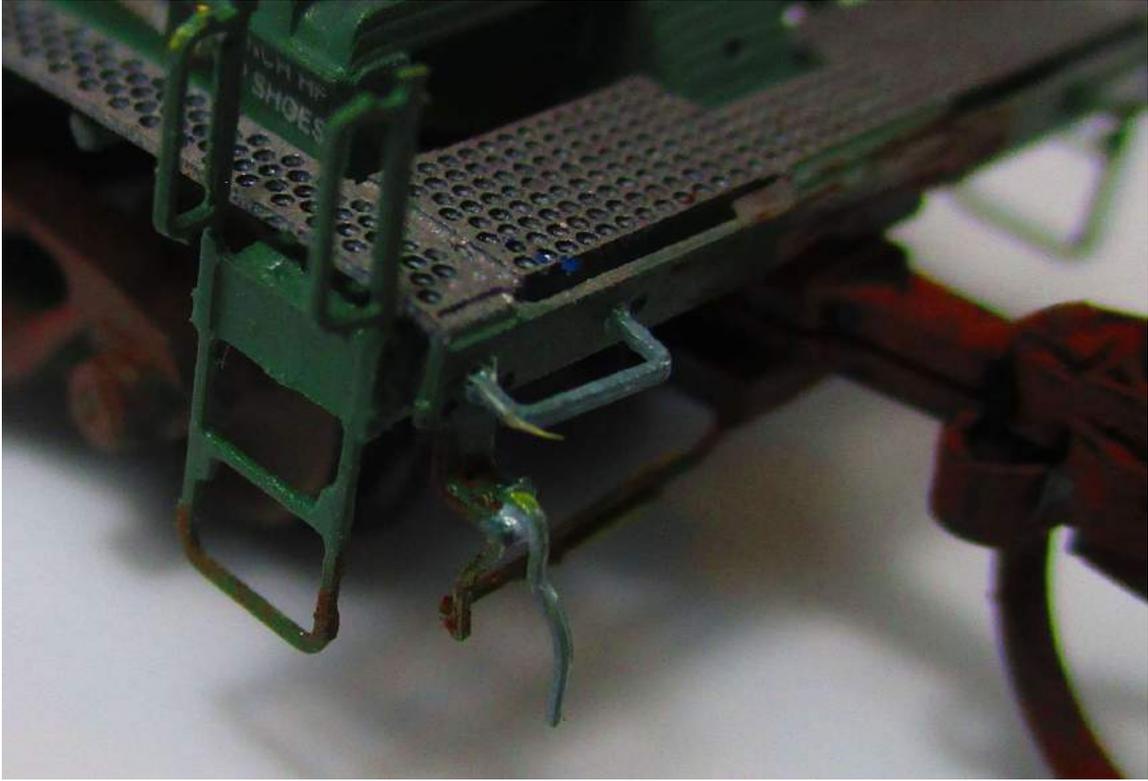
Then twist the ends to orient the grab irons on them properly To use the printed parts- Remove the parts from the sprue using flush cutters, then glue them in place with the grab irons facing outward and the stirrup brackets oriented as shown in the later photographs. I used Micro Scale micro crystal clear again to glue these parts in place as it is always strong and flexible.

12. Now is the time to paint the car as you like. On my model, I took the wheels out of the trucks and painted the trucks at the same time. I decided to do a Burlington Northern car. I painted all of the body parts BN Cascade green that I custom mixed using Testor Model Master Axcryl paint, and I sprayed the walkway with Testor flat aluminum undercoated with black. I probably mixed the BN green too dark. I brush painted the end sills and handbrake stand green to match the body. I glued the walkway on now too. **Photo.** I then oversprayed the model with clear gloss for good decal application, and applied the decals according to the photos. I found some of the lettering just a little too tiny to apply, and on BNSF cars, the RELEASE lettering for the purge valve needs to be cut off and moved a bit to fit the side sill.





12. Glue on the walkway using MicroScale Crystal Clear. Weather the trucks and couplers separately, then install them to the body. Remove the cut levers from the fret and install them between the brackets and the coupler pockets. Touch up the weathering.



Your model is completed! This is the first kit we have produced with the US market in mind, and so far it has done quite well in sales. We would very much like to hear feedback on this kit to

improve this kit for future runs, and to improve our future offerings.