



Classic 1920s Railroading

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Canadian Pacific

38'-10" Hart-Otis Gondola Coke Rack

Kit: GN-03

Introduction

Thank you for purchasing this model kit. It's my pleasure to share models that I have made for my own model railroad with you. If you need help, have suggestions for improvements or new model ideas contact me at sales@twentymodels.ca.

History

Coke (aka. metallurgical coal) is coal that is processed at high temperature to remove volatile components resulting in a high carbon material that is used in steel making. Coke is lighter than coal so a cage extension is used to increase the capacity of the car.

The CPR had 226 Otis gondola cars with coke racks. There were twenty-six Otis cars with National doors, numbered 345349-345399 (odd numbers) outfitted. And there were 200 Hart door cars, number series 346001-346399 (odd numbers).

Please refer to Ken Goslett's excellent two part series on Otis cars in December 1987 and January 1988 Railroad Model Craftsman. A builder photo of a National door Otis with coke rack is found on the model product page.

Kit components

Contents:

- 1) Two 1 piece rack bodies
- 2) Brass etched eyelets

You will need to supply the following to build the kit:

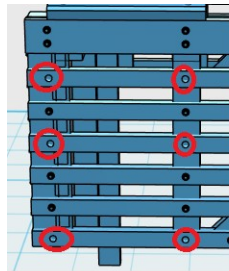
- 1) 0.012" wire

Instructions

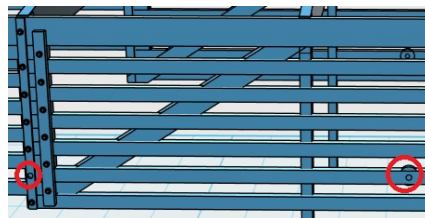
Superstructure and Prep Notes

- 1) The printer resin is like polyurethane resin and will sand, drill, and tap as you would expect. It has some give but will break if bent too far.
Tip: Avoid using knives or razor blades. The material is too hard to control with a blade. Plastic nippers, coarse metal files and sand paper are better for removing a large amount of material. Then finish up with a small file and sand paper.
TIP: Make yourself a large sanding block out of scrap wood. Glue different grades of sand paper on each surface so you have even surfaces to sand on.
TIP: Warped flat pieces, like underframes, can be straightened by quickly warming in hot tap water or using a blow dryer until flexible, then weighted down to set in the desired position and let cool or immediately put under cold water to fix the shape.
TIP: Instead of using a hand pin vise try the Tamiya Handy Drill.
TIP: Don't force the drill bit rather, start with light pressure to start the hole and back out to clear chips so it won't jam.
- 2) With a #79 bit, drill all points marked on the body and roof. They should be easily found using reference images.
TIP: When drilling, place a piece of wood being boards so that you don't break them.

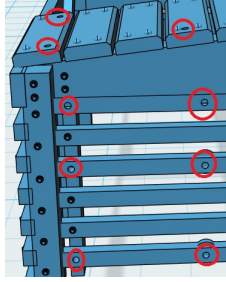
Side grab irons are on all corners



Side door guides



End and roof grab irons



- 3) Form eighteen 20" straight grab irons out 0.12" wire. Glue them into place on the ends and sides.
- 4) Form four 68" (19.8mm) door guides and glue them into place.
- 5) For four 20" right angle roof grab irons. Glue an eyelet in the corner position and then thread the part and glue the ends in place.
- 6) Done!

Painting tips

- 1) Wash the car in warm water and put aside to thoroughly dry.
- 2) Acrylic paints stick to almost everything, but if you're not sure, prime the model.
Tip: Automotive spray can primer work well on resins. Apply in very quick light coats allowing time between so the paint doesn't run.
- 3) Paint the entire model black.