



# Western Rails Company

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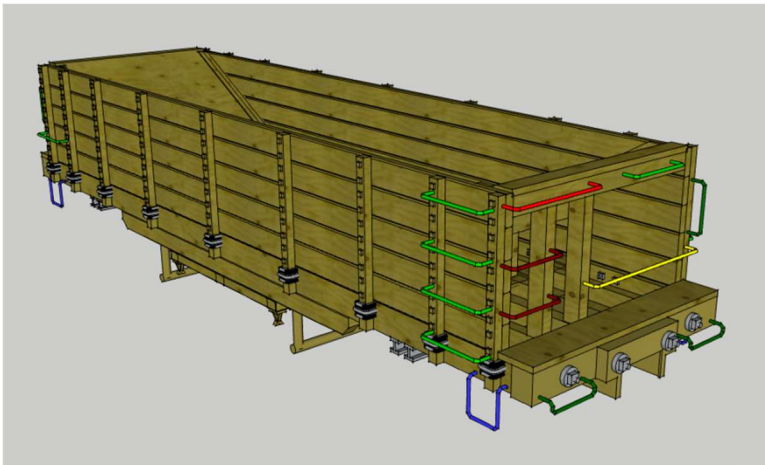
## ET&WNC Small Wood Hopper

Detailing instructions for our ET&WNC Small Wood Hopper kit. To the right you will find the parts list with the color to help indicate placement on the model. The "B" end of the car is the end with the 52" grab iron; the brake wheel would be mounted to the end of the car centered between the uprights. The 18" and 24" Grab Irons and Sturrups can be purchased from Tichy Train Group, all others will need to be custom made, and we offer a jig that can be used to make all the grab irons on the list.

### Parts List

- 2 - 18" Straight Grab Irons (dk green)
- 4 - 18" Drop Grab Irons (dk green)
- 2 - 20" Straight Grab Irons (Maroon)
- 12 - 24" Straight Grab Irons (lt green)
- 5 - 36" Straight Grab Irons (Red)
- 1 - 52" Straight Grab Irons (yellow)
- 4 - Straight StIRRUP Steps (blue)

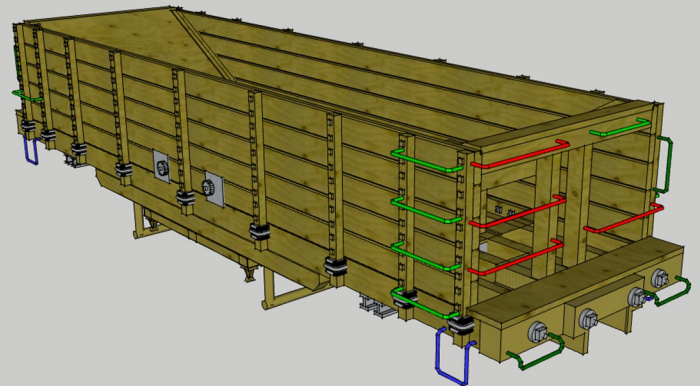
We recommend cleaning out all mounting holes before beginning installation; I used a #80 drill bit. Begin by installing the truss rods first as it is quite difficult to access the inner portions of the car once the end grab irons are installed. I began by installing the side grab irons and worked my way around to the ends, once the mounting holes are drilled; I just clipped the leads to length and applied glue before installing them. The process while



View of "B" end of hopper

simple can be time consuming due to the large number of custom length grab irons.

There are two holes on each end of the car in the side sills for mounting the sturrups, these will accommodate 12" x 12" wire formed or Tichy Straight Side Mount Sturrups. We use wire sturrups on our models as we anticipate them to be handled often for shows and demonstration events, we also do not install brake details for the same reasons.



View of "A" end of hopper

Thank you for your purchase!  
Enjoy your 3d printed model from Western Rails Company.