

*Awesome Prototypical
Freight Cars:
Weathering and Numbering Part I*

Step #	Description	Materials	Tools
1	Research your prototype	Equipment guides, photos	
2	Select your Rolling Stock	Buy It / Make it!	
3	Remove trucks, separate wheels		Sm screwdriver
4	Replace plastic wheels with metal wheels	Wheels: Reboxx, Proto2000, etc	
5	Replace couplers - cut trip pins	KaDee #58	Sm Phillips screwdriver, rail nipper
6	Paint wheels (excluding axle points & tire surface) and trucks (except in journals), black (or desired color) with rail tie brown highlights, or all rail brown	Floquil Rail Tie Brown and/or Grimy Black	Small paint brush, Paint thinner
7	Distress Car Lettering - stroke vertically w/brush to show wear; 'chip' paint with blade		Fiberglass Weathering Brush, #11 X-acto blade
8	Add desired Detail Parts	Coupler cut levers, air line gladhands, etc.	
9	Assemble Load: Make removable form fitting wood, glue magnet top center with Goo, cover load material on top	Load Material (Coal, lime, ore, sand, etc), basswood, magnet	Wet glue (Elmers+water), Walthers Goo
10	Weigh Car add weight if necessary	Lead Weights	Postal Scale

RP-20.1 NMRA Car Weight	Scale	Initial Weight (oz)	Add'l Wght per Body Inch (oz)
	O	5	+1
	On3	1.5	+.75
	S	2	+1.5
Example:	Sn3	1	+1.5
40' car = 1 oz + (40'/87' x 12"/1') x .50 oz/in = 1+(5.52	HO	1	+.5
x .50) = 3.76 oz	HOn3	0.75	+.375
	TT	0.75	+.375
	N	0.5	+.15

11	Renumber (based on prototype) Remove old number, repaint & redecal or scrape off or paint over old, repaint new #	Decals Matching paints/acrylics	
12	Paint truck journals & springs with touch of rust, wheels if desired, and rust spots (with washes) on Lettering	Delta Creamcoat/Plaid/Folk Art Burnt Sienna acrylic	Small paint brush, water
13	Touch of Dullcote on truck faces and all body surfaces	Testors Dullcote	Latex gloves, newspaper
14	Add weathering to trucks, car body top, bottom, sides, & inside open cars	Bragdon powders - black, dust, dirt, rust, various shades	Latex gloves, old brushes, beauty brushes, box to catch powders.
15	Very light touches of Dullcote (more will reduce weathering)	Testors Dullcote	Latex gloves, newspaper
16	Reassemble wheels in trucks, reattach to car, ensure that couplers move freely.		Sm screwdriver

Your rolling stock has never looked more realistic!!