This will be posted to prototopics.blogspot.com

Finding Kitbashing Opportunities in Freight Cars

RPM Chicagoland Lisle, IL 26-28 October 2017

Finding Kitbashing Opportunities Thank you

- Richard Hendrickson
- Stan Rydarowicz
- Mark Feddersen
- Clark Propst
- Bill Welch
- John Nehrich
- Jeff English
- Tony Thompson
- Ed Hawkins
- Pat Wider

- Start with what you know, e.g. a car design, a road's specific cars, a type of specialty
- Ask questions or search for answers. Good resources are the various Yahoo! Groups lists, e.g. STMFC
- Learn more. Look for articles and reference material. Articles by Richard Hendrickson, Stan Rydarowicz, Clark Propst, and Mark Feddersen, to name a few
- Be observant

- Look at and for photos, particularly at meets when Bob's, Mike Gruber, Jay Williams, etc., are present
- Check and reinforce what you know so that differences become apparent.
- Even the best miss things. When you go back to things you've looked at before and "look again for the first time" things that you missed become apparent

- What follows is not meant to be a checklist of projects to do
- It is not meant to be a "how-to" for projects. You know best what works for you
- It is merely meant to highlight variety and inspire you to do the projects that interest you
- Start small, develop your skills, and move on to more challenging subjects

Spotting Details



This photo is illustrative of type of things to look for...

Spotting Details

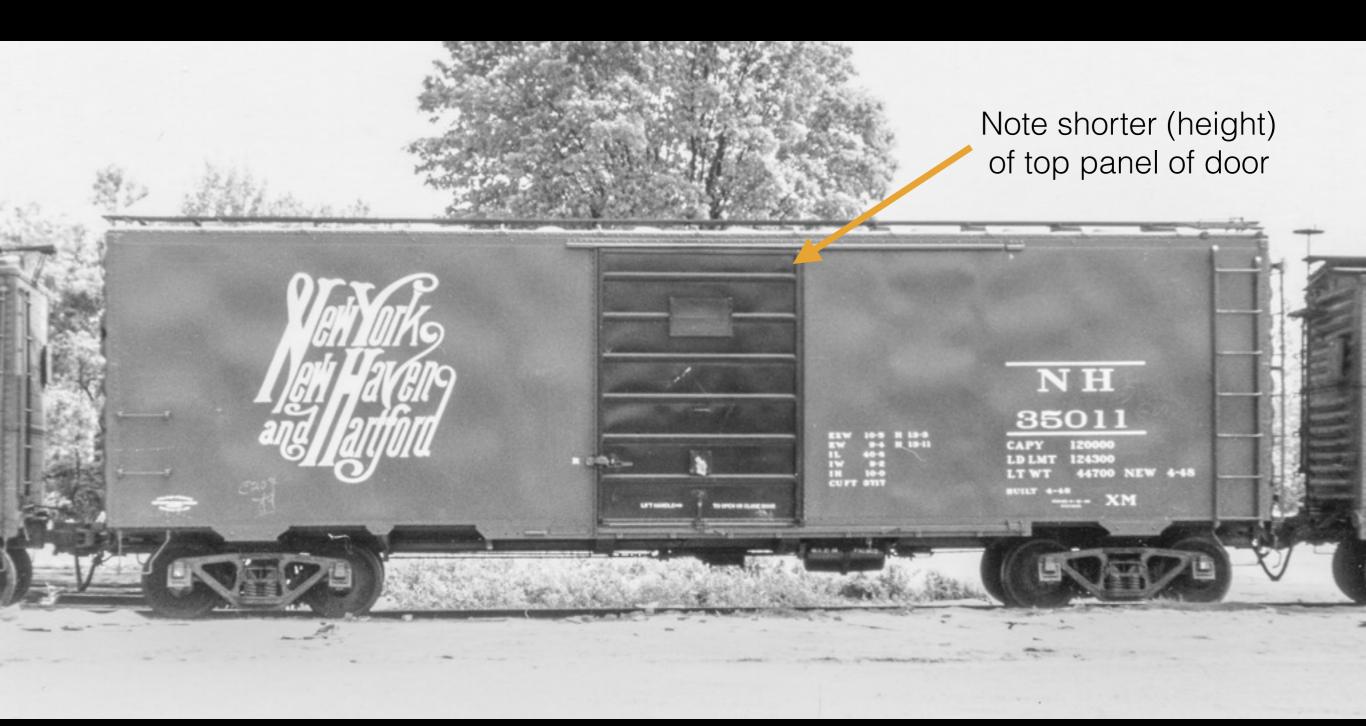


Bolster channel tabs with 'bow-tie' rivet pattern and Royal Type F brake regulator... and, yes, National Type B trucks. This is an ideal "starting simple" project to tackle with an Intermountain kit

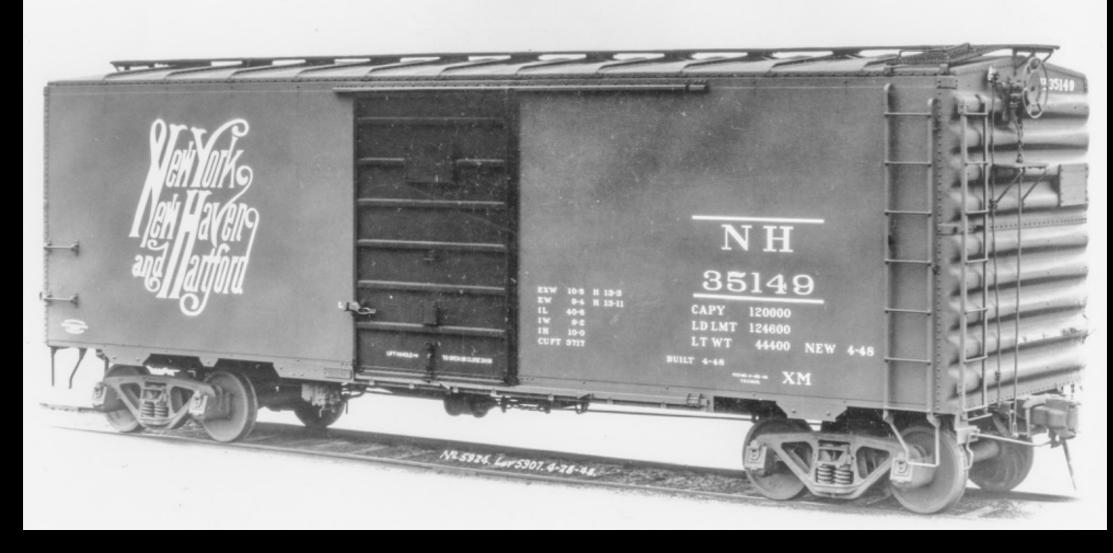




 Above is a 10'6" PS-1 with top end "Murphy" corrugation and full height door

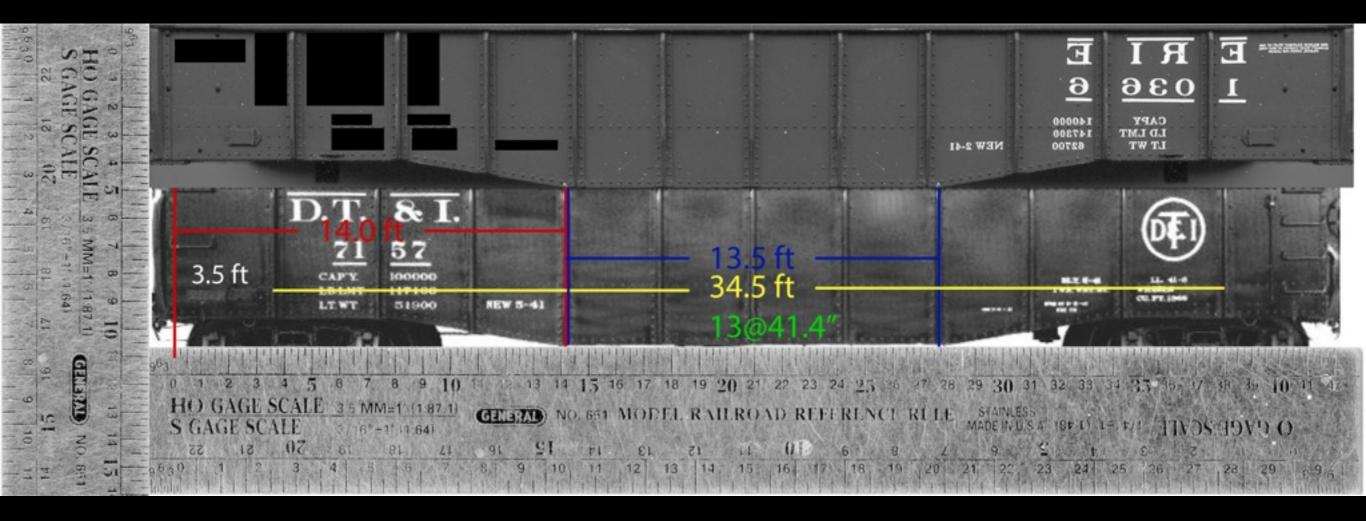




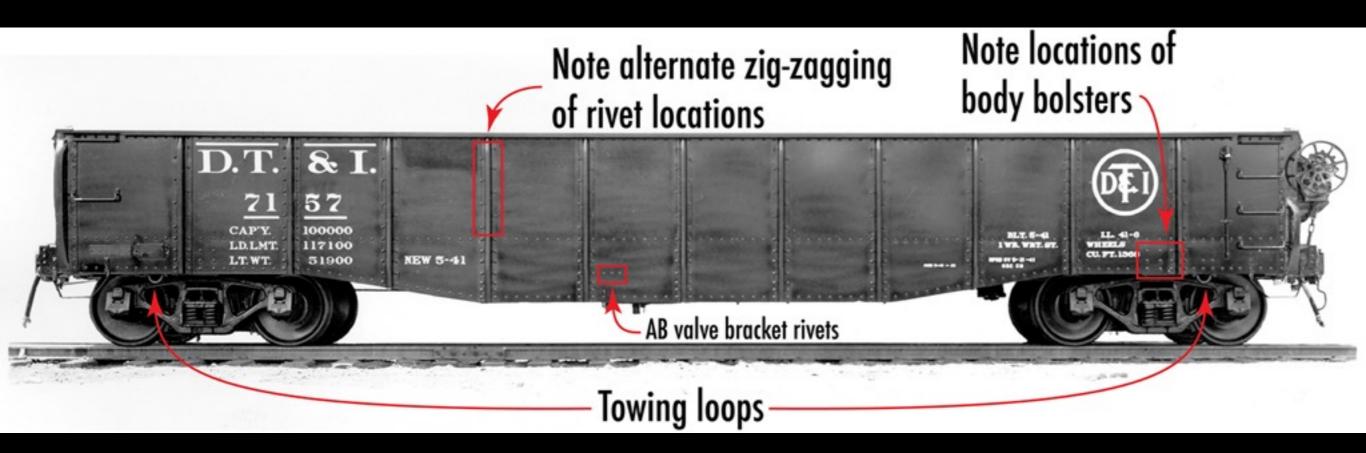


- Modified Intermountain PS-1 end
- Modified Intermountain or scratchbuilt side (styrene with Archer panel line decals)
- Modified Southwest Scale door
- Intermountain roof with outer panel ribs removed

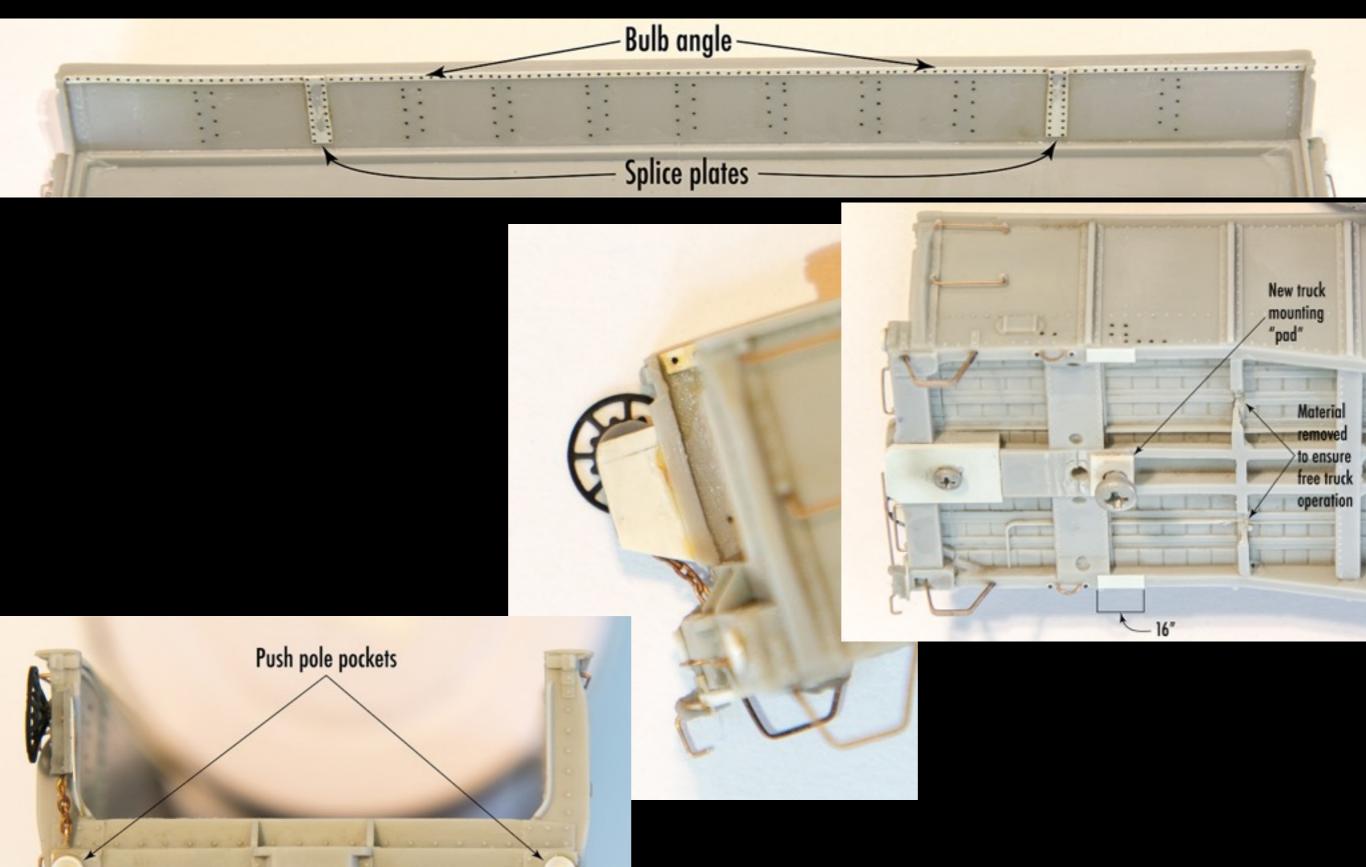




- Frank Hodina did this one in a weekend
- Tom Madden castings
- Speedwitch decals



Several detail differences from 52'6" Greenville gondola



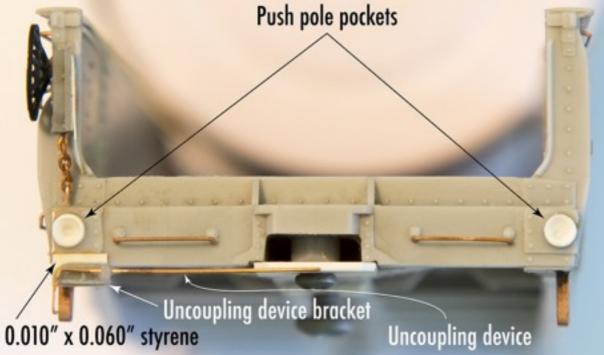
Uncoupling device bracket

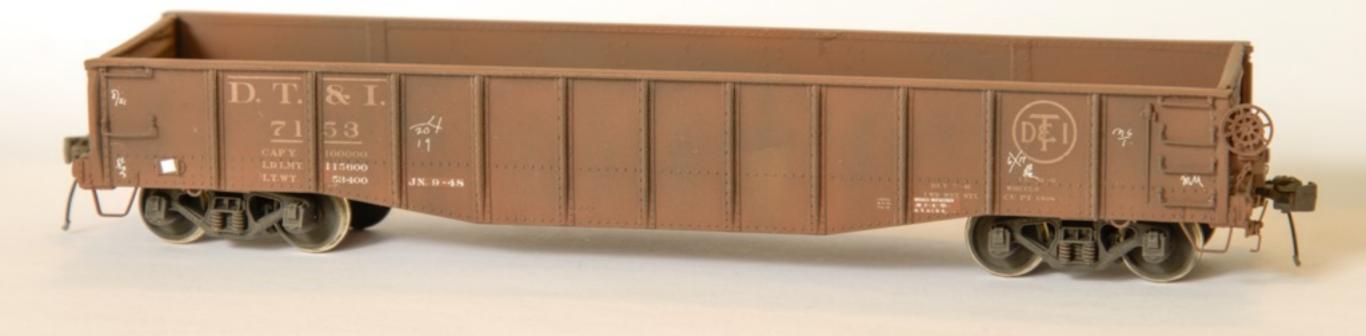
Uncoupling device

0.010" x 0.060" styrene

Detroit, Toledo & Ironton 41' Greenville Gondola







Detroit, Toledo & Ironton 41' Greenville Gondola Blog posts about this project:

- Part One <u>http://prototopics.blogspot.com/2017/05/building-dt-7000-</u> series-gon-or-nothing.html
- Part Two <u>http://prototopics.blogspot.com/2017/05/building-dt-7000-</u> series-gon-part-2.html



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Elgin, Joliet & Eastern 10'0" inside height 12panel postwar AAR box car

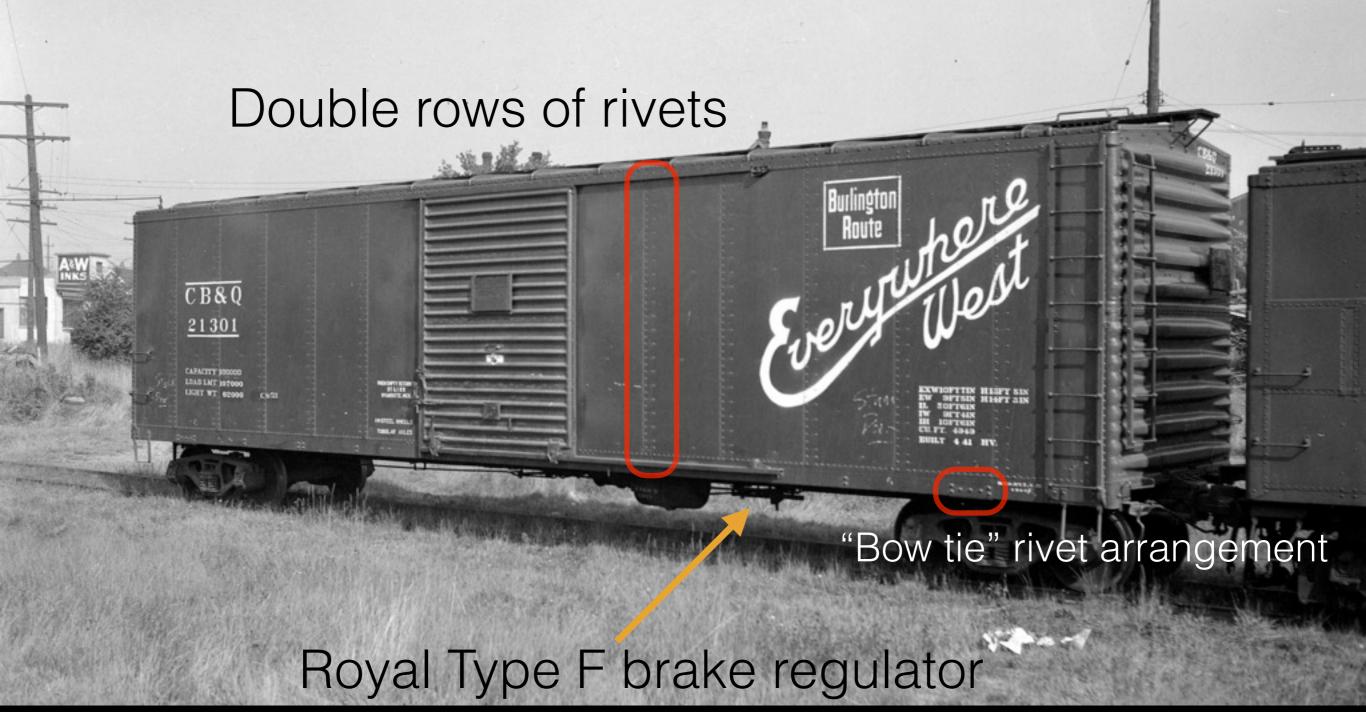


Elgin, Joliet & Eastern 10'0" inside height 12panel postwar AAR box car



Elgin, Joliet & Eastern 10'0" inside height 12panel postwar AAR box car

- Modified Intermountain R-40-25 ends (3/3 to 3/4)
- Modified C&BT side or scratchbuilt (styrene with Archer panel line decals)
- Modified Southwest Scale door
- Decals... old Champ, Sunshine

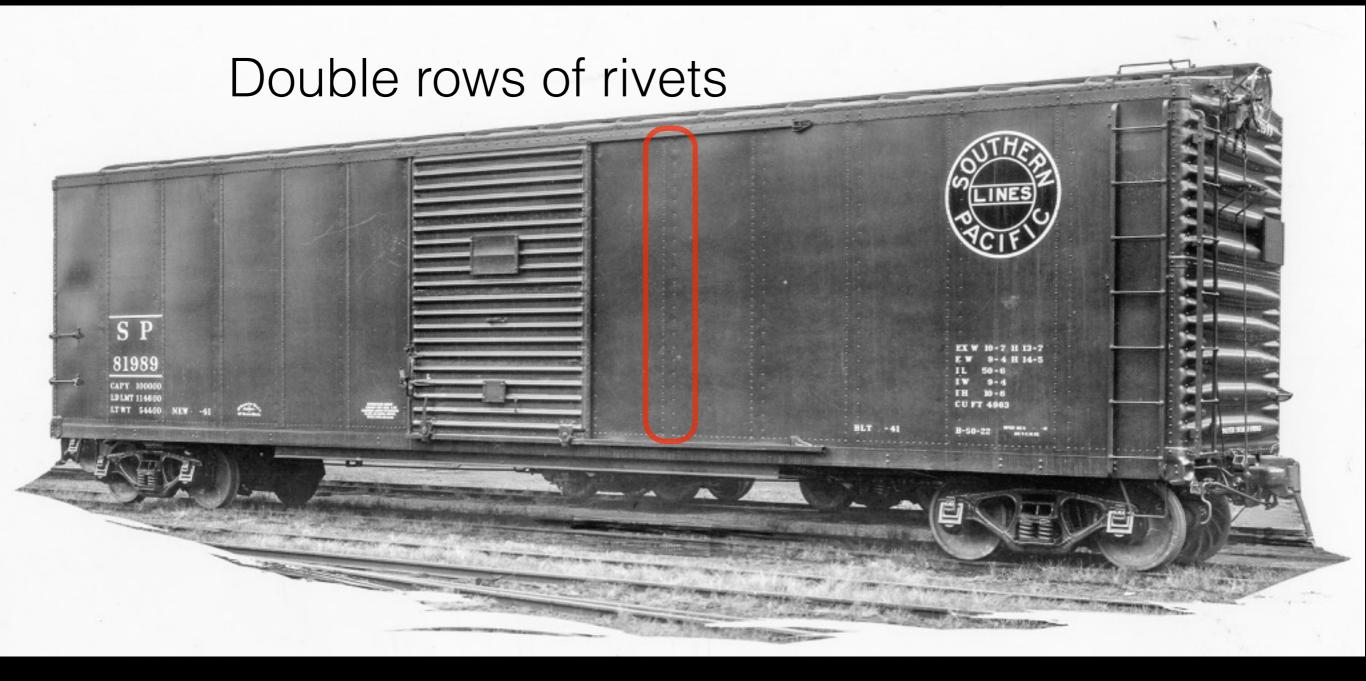


Burlington 50' AAR box car

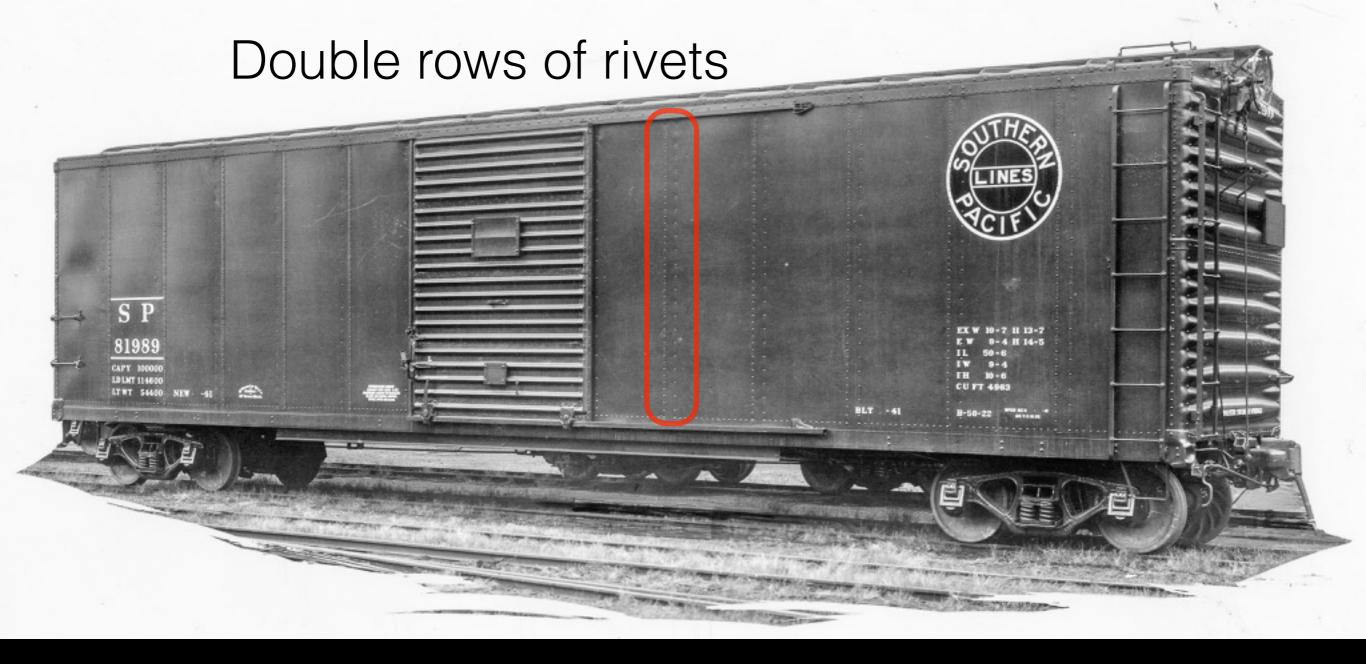


Burlington 50' AAR box car

- Proto 2000 car
- "Clean" side and add Archer rivets (AR88110)
- Royal Type F Brake regulator (<u>Link to part on</u> <u>Shapeways</u>)
- "Bow-tie" riveting at body bolsters
- Decals... old Champ, coming from Speedwitch



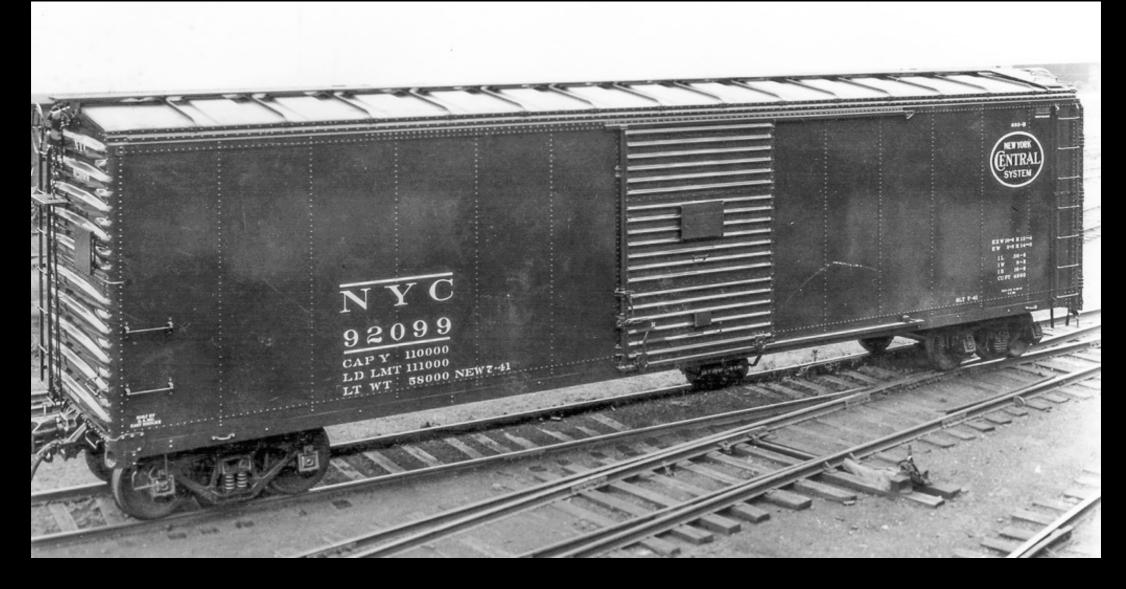
Southern Pacific B-50-22 50' AAR box car



Southern Pacific B-50-22 50' AAR box car

- Proto 2000 car
- "Clean" side and add Archer rivets (AR88110)
- True Line Trains Klasing power hand brake
- Decals... coming from Speedwitch

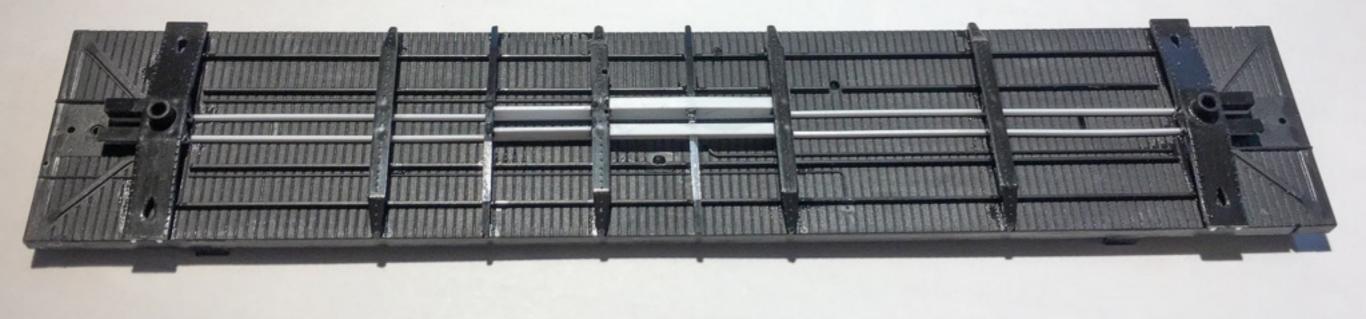




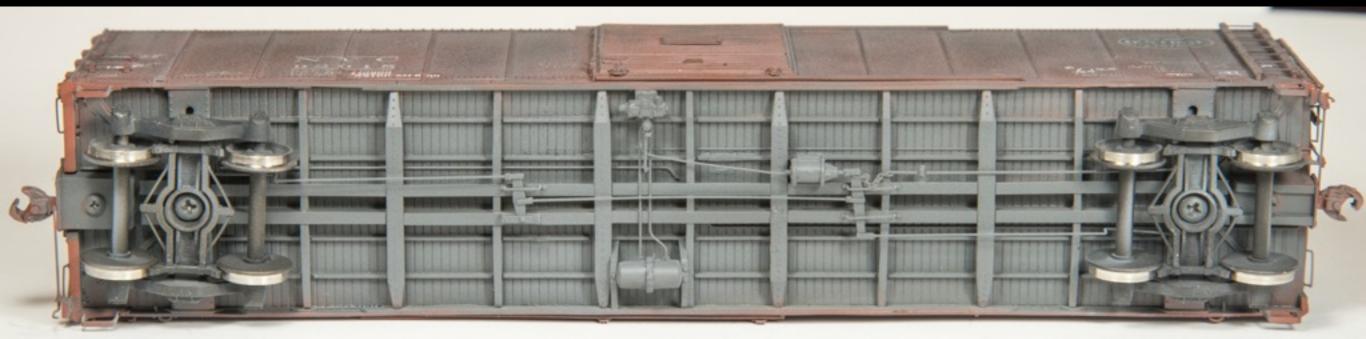
- Splice Proto 2000 box and end door auto cars
- Speedwitch door
- Decals from Speedwitch D177



- Splice Proto 2000 box and end door auto cars
- Speedwitch door
- Decals from Speedwitch



- Proto 2000 box floor
- Branchline crossbearers and crossties
- Styrene center sills (three piece composition)





- Splice Proto 2000 box and end door auto cars
- resin Youngstown door
- bashed floor/underframe
- Tahoe Models trucks
- other details; profiled in *Prototype Railroad Modeling, Vol. Four*
- Speedwitch decals D177





New York Central 50' postwar AAR box car



New York Central 50' postwar AAR box car



New York Central 50' postwar AAR box car

- Branchline 50' AAR box car
- 4/4 Improved Dreadnaught ends
- 50' Murphy solid steel rectangular panel roof (resin)
- Speedwitch door
- Decals from Speedwitch D177



New York Central 50' postwar AAR box car

- Optional new floor/underframe with four total stringers (BLT car has six stringers)
- profiled in Prototype Railroad Modeling, Vol. Four



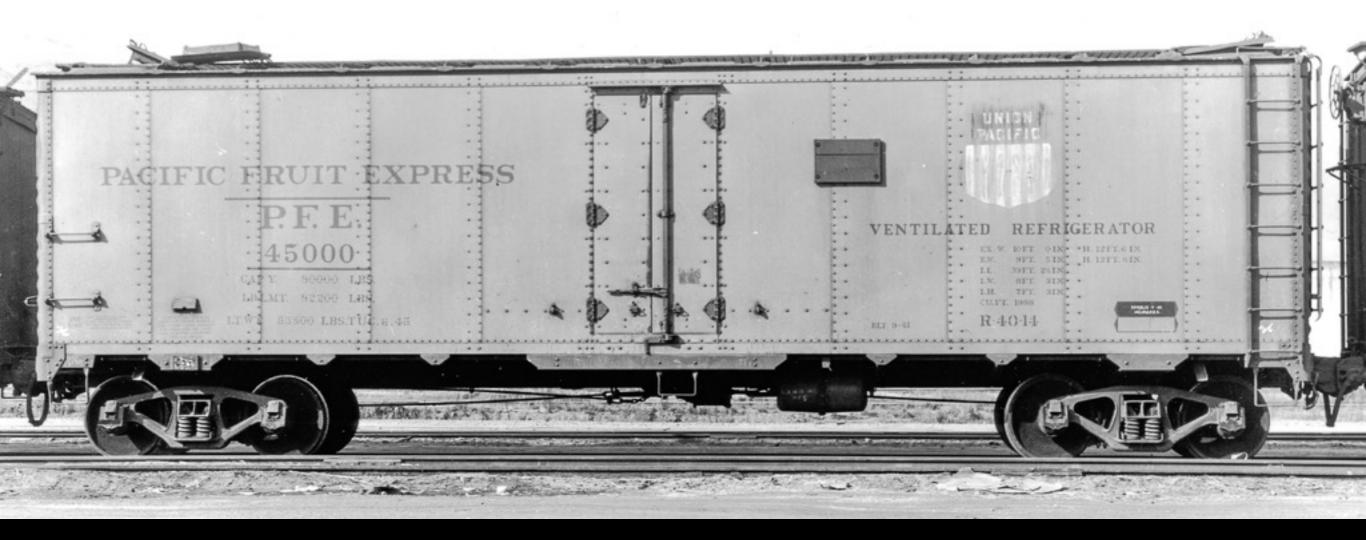


New York Central 50' postwar AAR box car

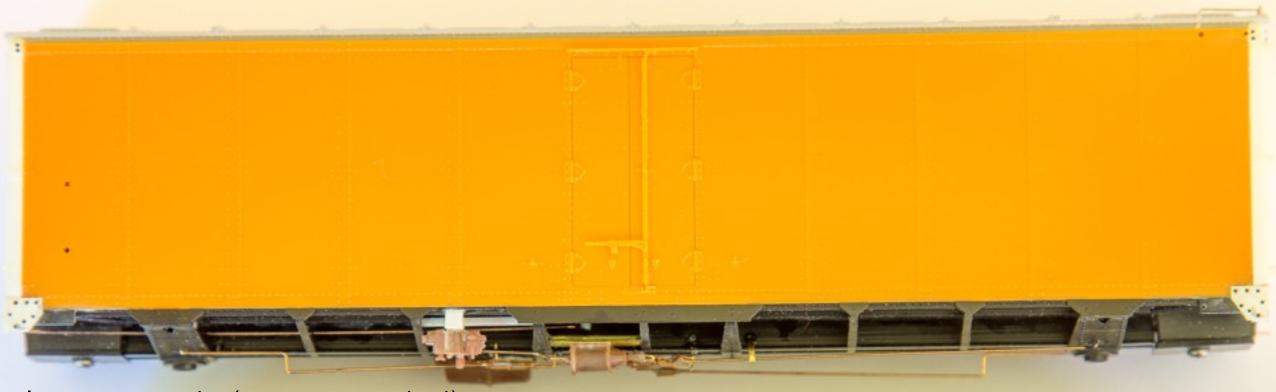
- Branchline body
- resin ends (4/4 Improved Dreadnaught)
- resin Murphy rectangular panel roof
- resin Superior door
- new scratch built floor/underframe with four total stringers (BLT car has six stringers)
- Tahoe Models trucks
- other details; profiled in *Prototype Railroad Modeling, Vol. Four*
- Speedwitch decals



New York Central 50' postwar AAR box car

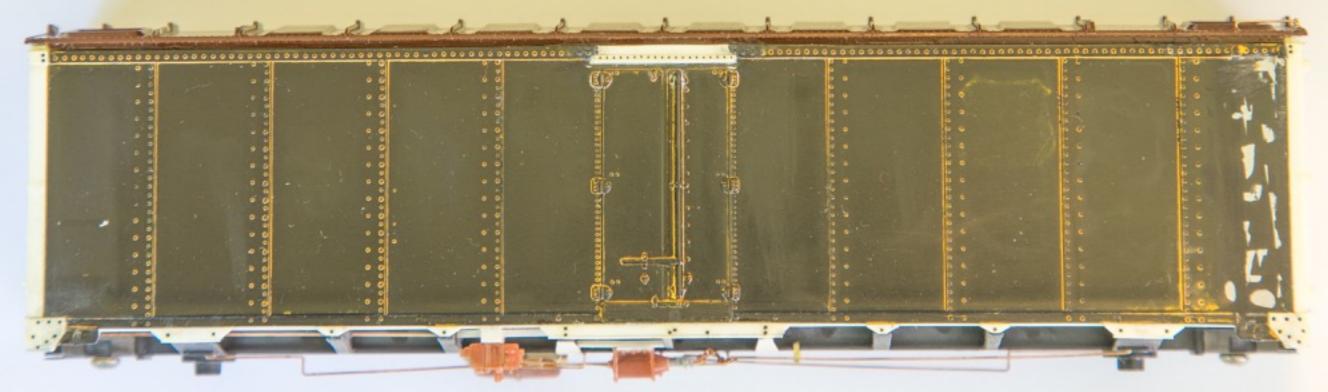






Intermountain (recommended)

Athearn (not recommended... only for fun)







Athearn

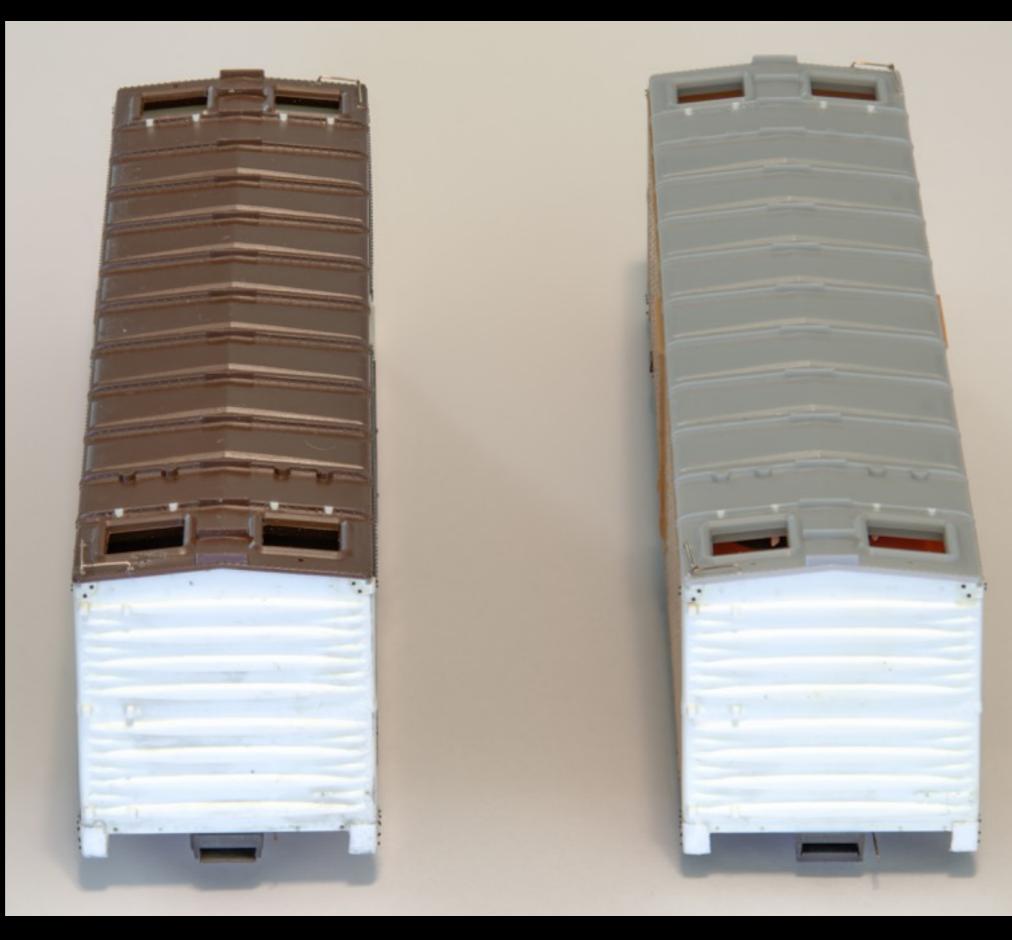
- Intermountain roof (R-40-23)
- Details West round corner Dreadnaught ends
- Tahoe Models trucks (ignore "shop" trucks shown above
- other details
- Speedwitch decals



Intermountain R-40-10 kit

- Intermountain roof (R-40-23)
- Details West round corner Dreadnaught ends
- Tahoe Models trucks (ignore "shop" trucks shown above
- other details
- Speedwitch decals

- Details West round corner
 Dreadnaught ends
- Details West Equipco hatch covers
- Intermountain R-40-23 roof (or preferably Pacific Freight Enterprises)
- many scratchbuilt details
- Speedwitch decals
- subject of an indepth article in *Prototype Railroad Modeling Vol. Four*







VENTILATES

Subject of an in-depth article in *Prototype Railroad Modeling Vol. Four*

EXPRESS

PACIFIC FRUIT



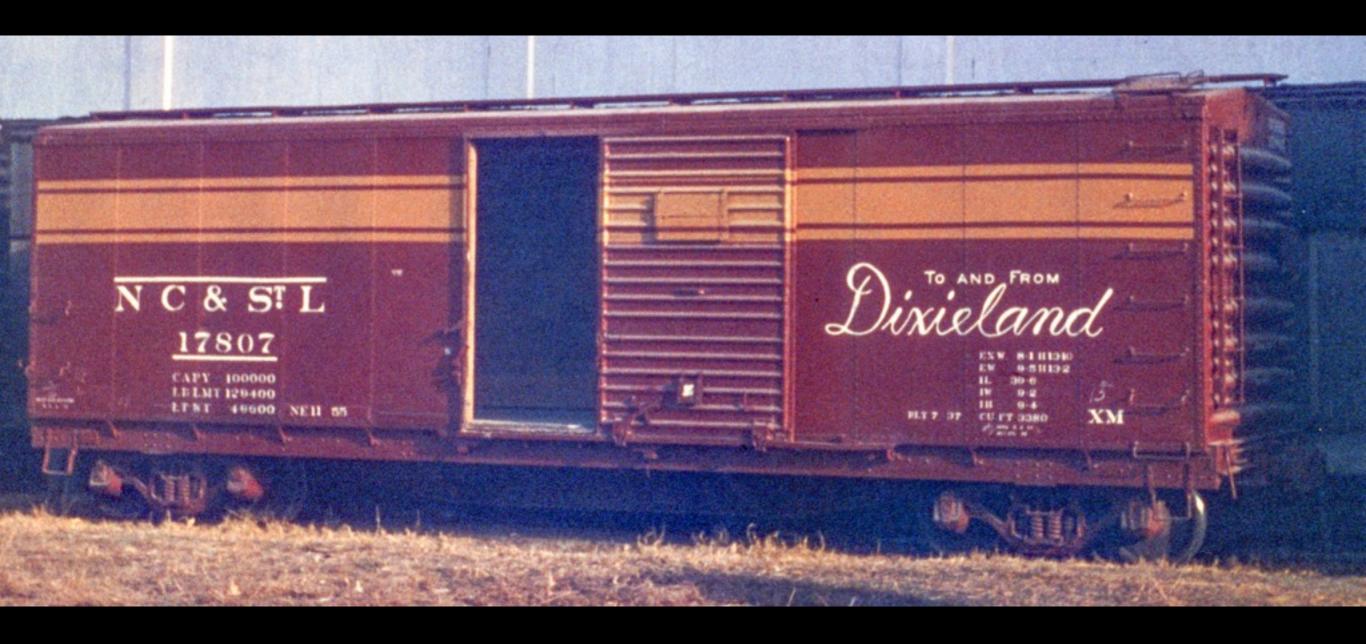




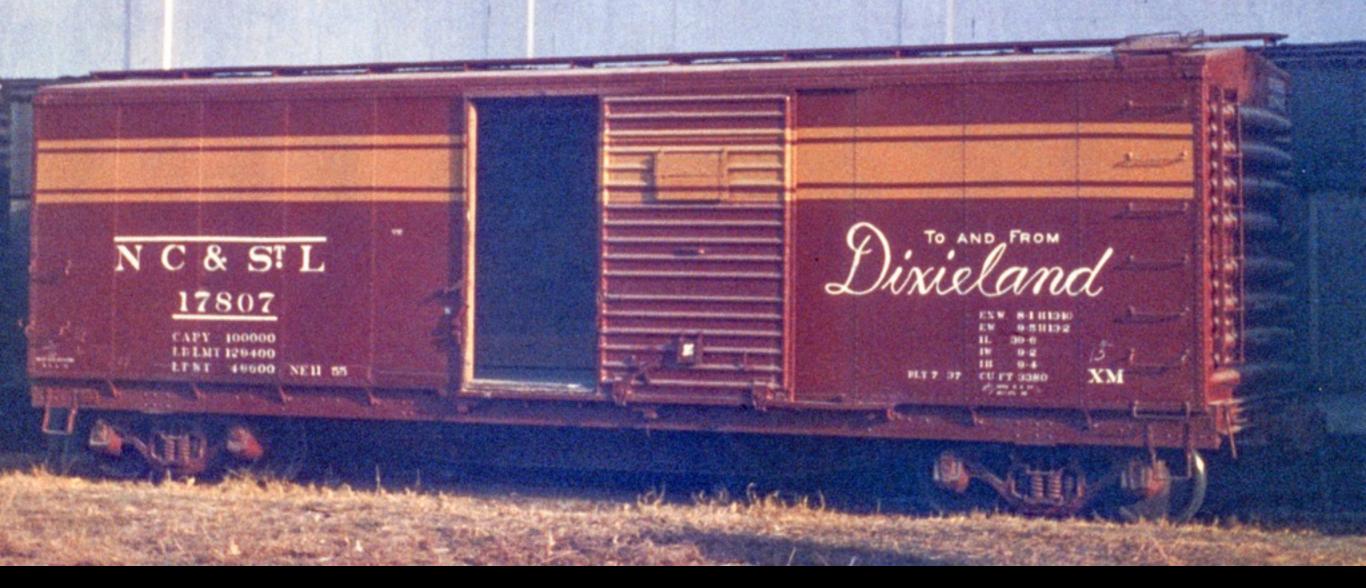




- Shorten Intermountain FGEX reefer by three feet (half from each end) or scratchbuild new side from styrene, Grandt Line door hardware, etc.
- Lower height of sides and ends by approx. 10 inches (the reason for scratchbuilding the side, if you decide to lower height)
- Use existing IM roof and underframe, but modified
- Decals from Speedwitch (coming...)



Nashville, Chattanooga & St. Louis XM-31 Rebuilt Box Car



Nashville, Chattanooga & St. Louis XM-31 Rebuilt Box Car

- Atlas 1932 ARA Box Car or Sunshine Models
- Tichy flat car
- Scratchbuilt side sill details
- Decals from Speedwitch (coming...)



Pacific Fruit Express Plywood -9 Refurb/Rebuild



Pacific Fruit Express Plywood -9 Refurb/Rebuild

- Red Caboose R-30-12-9 (R-30-9) reefer
- Scratchbuilt sides with Grandt Line hardware, Hassler angles, joints simulated with Archer panel line decals
- Decals from Speedwitch (coming...)



Seaboard Air Line AF-4 PS-1 Auto Car



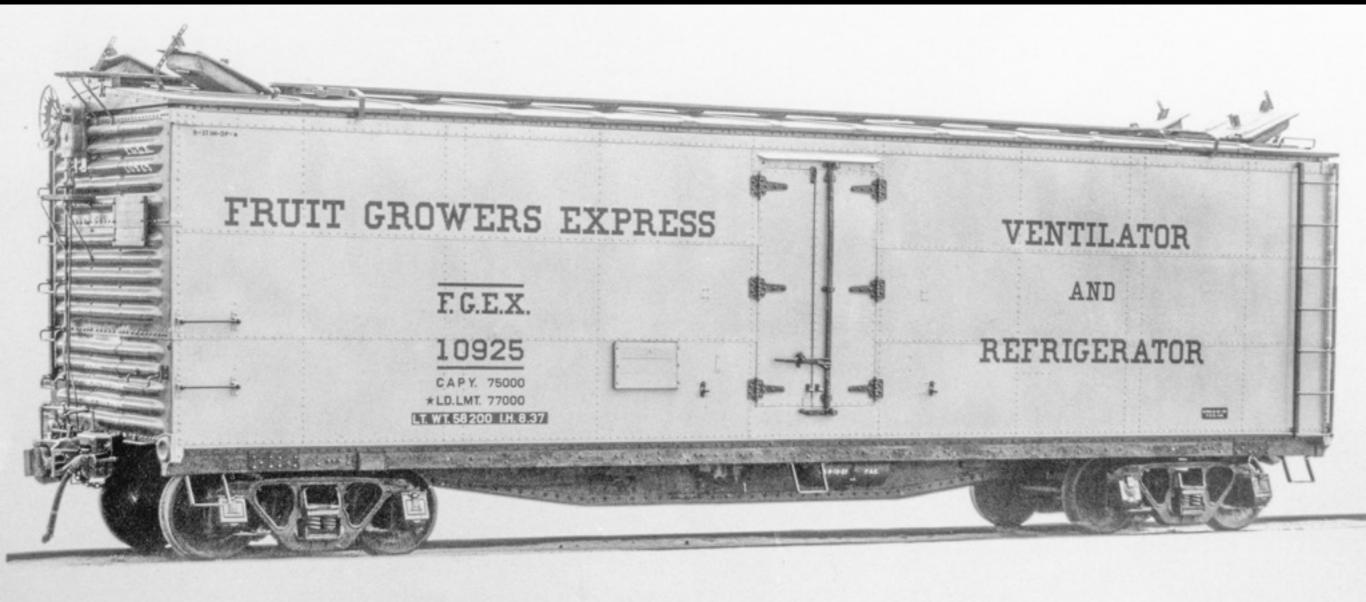
Seaboard Air Line AF-4 PS-1 Auto Car

- Modified Intermountain PS-1 end
- Modified Intermountain or scratchbuilt side (styrene with Archer panel line decals)
- Southwest Scale doors (modify left door not shown modified above)
- Intermountain roof with outer panel ribs removed
- Scratchbuilt underframe (or just use kit underframe)
- Speedwitch decals D194

Seaboard Air Line AF-4 PS-1 Auto Car



• Speedwitch decals - D194



Fruit Growers Express Rebuilt Refrigerator Car

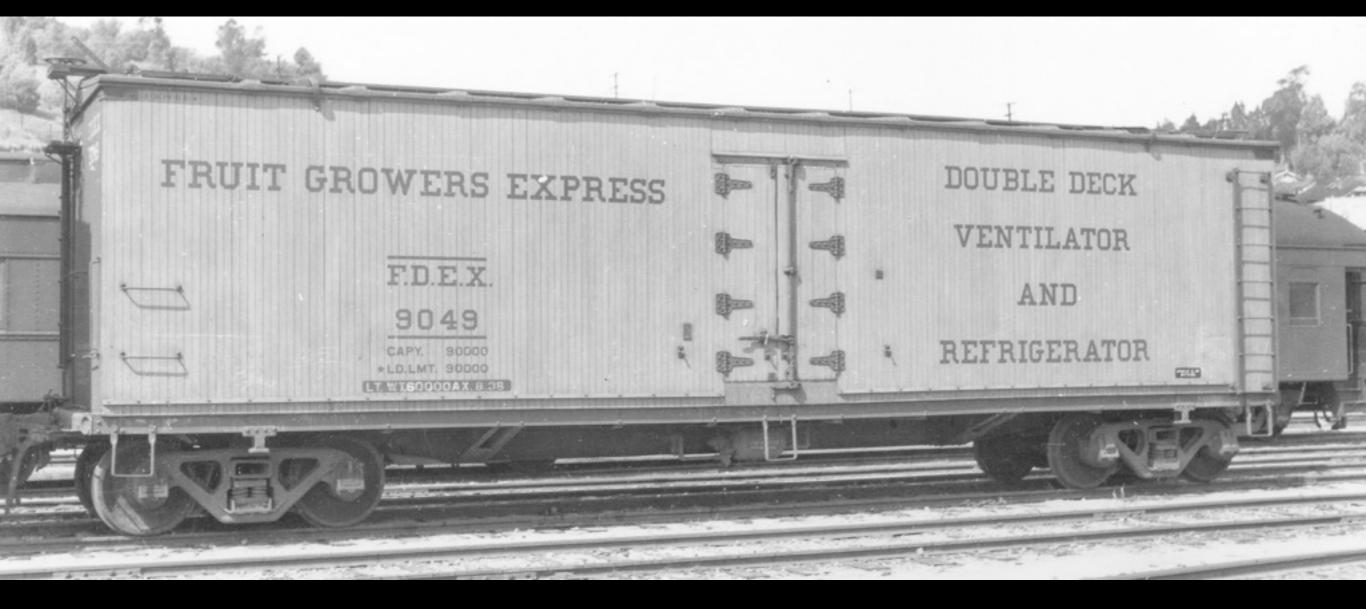


Fruit Growers Express Rebuilt Refrigerator Car

- Scratchbuilt side (styrene with Archer rivet decals) plus Grandt Line hardware (hinges, door locking bar, etc.) and side sills
- Tichy ends
- Intermountain FGEX roof
- Accurail USRA 40-ton underframe
- Speedwitch decals... coming



Fruit Growers Express/National Car R7 underframe Refrigerator Car



Fruit Growers Express/National Car R7 underframe Refrigerator Car



Fruit Growers Express/National Car R7 underframe Refrigerator Car

- Scratchbuilt side (styrene with Archer rivet decals) plus Grandt Line hardware (hinges [note "double-tongue" hinges with half removed], door locking bar, etc.), side sills, and ends
- Intermountain FGEX roof
- Westerfield X23/X25/R7 underframe
- Speedwitch decals... coming



Delaware & Hudson USRA 50-ton Box Car with Viking corrugated steel roof



Delaware & Hudson USRA 50-ton Box Car with Viking corrugated steel roof



Delaware & Hudson USRA 50-ton Box Car with Viking corrugated steel roof

- Westerfield USRA 50-ton box car
- Des Plaines Hobbies Viking roof



Southern Pacific O-50-13 and Union Pacific O-50-6 GATC Type 30 (Type 40) 12,500 gallon tank cars

- Athearn tank car (an Athearn car we can use!) with dome modification
- GATC Type 30 body bolsters (Speedwitch)
- Yarmouth Model Works sill steps (YMW-220)
- decals coming from Speedwitch



Southern Pacific O-50-13 and Union Pacific O-50-6 GATC Type 30 (Type 40) 12,500 gallon tank cars

- Increase in dome height using a sacrificial Athearn tank (if you're making multiples sacrifice a "threedome" [three-compartment] car)
- Remove rivets and other unwanted details



Southern Pacific O-50-13 and Union Pacific O-50-6 GATC Type 30 (Type 40) 12,500 gallon tank cars

- Speedwitch GATC Type 30 bolsters
- Precision Scale brass tank handrail stanchions
- Replace AB brake system (to be done)
- Yarmouth Model Works etched sill steps (YMW-220)



Southern Pacific O-50-13 and Union Pacific O-50-6 GATC Type 30 (Type 40) 12,500 gallon tank cars

• Speedwitch D165



- 4,625 cars total, built in 1948, 1949, 1951, 1953
- reflect the changes to the PS-1 design over that period (excepting the riveted side construction)



- Intermountain or Branchline car body
- Speedwitch or Intermountain PS-1 roof
- Kadee or Intermountain ends
- Kadee, Intermountain or good enuff underframe members
- Floor scratch or model
- Doors -
 - Youngstown Intermountain or Branchline
 - Superior Intermountain or Speedwitch
- Tab sections below side sills model or scratch

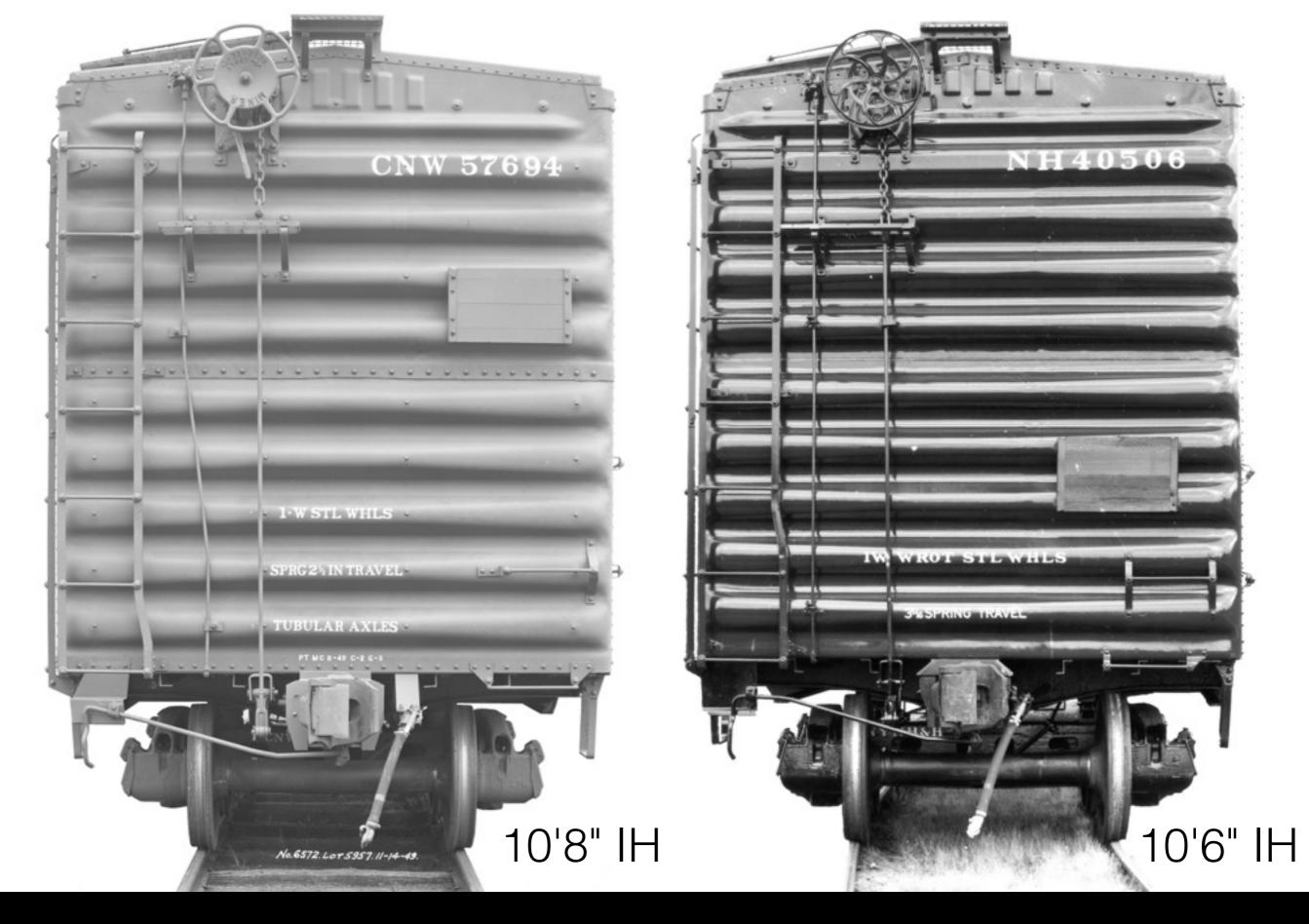


- See Railway Prototype Cyclopedia, Volume 1
- Speedwitch decal D195 shown above









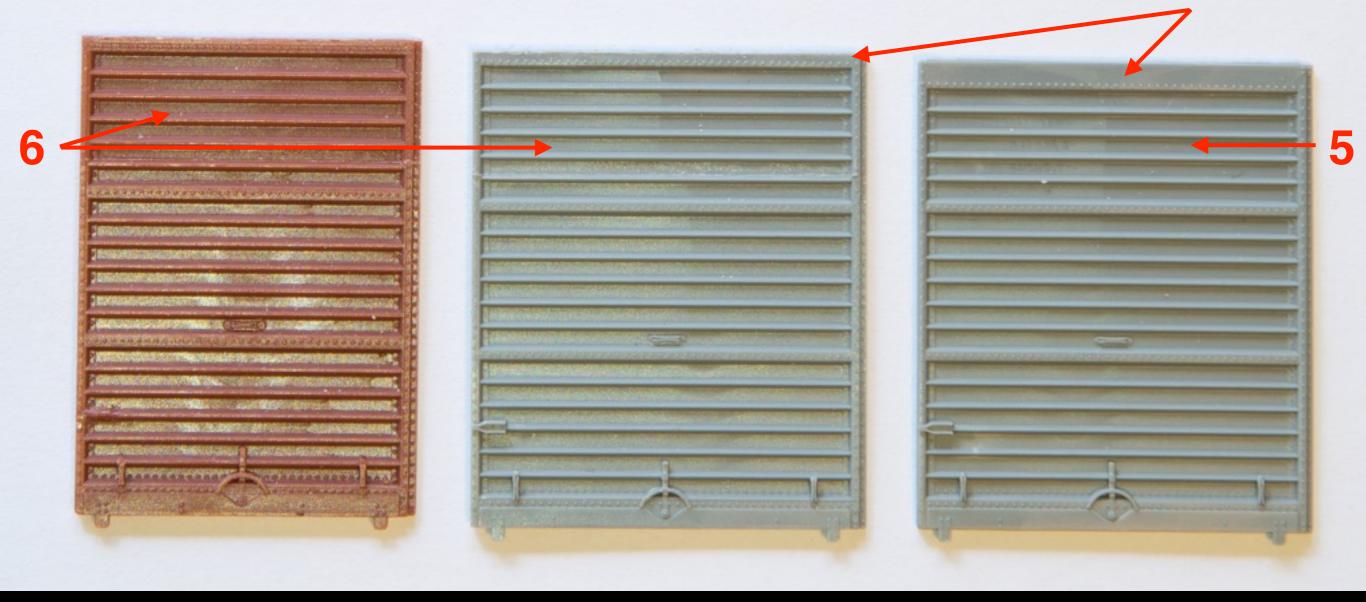
note that small trapezoids at top of end are "taller" on CNW car



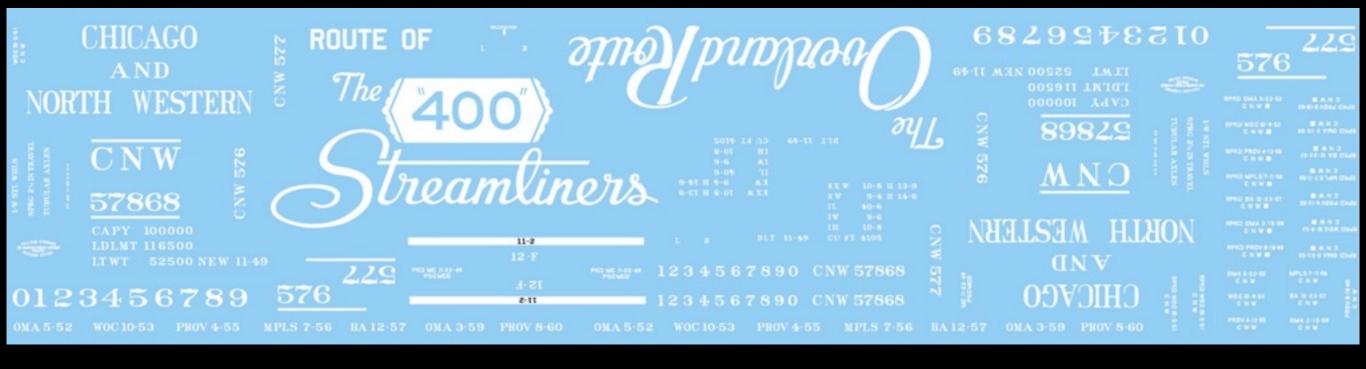
- Kadee end (removed from Kadee body)
- new trapezoids from 0.005" styrene
- new dimples and rivets at top
- round bolt heads on corrugations where wood nested
- new top corner braces with rivets
- Archer rivets along end corner
- filled right grab and placard board holes



outer roof ribs removed per early PS-1 roof



- 6-6-6 Improved Youngstown doors created by modifying Branchline Trains doors
- top of door shortened



- Scratchbuild sides and sills (CNW auto car is 10'8" inside height)
- Scratchbuild underframe
- This will be a Speedwitch kit (everything is modified and cast, so why not?)
- For those who prefer to do the project the decals are available as Speedwitch D193



Southern Pacific F-50-16 Flat Car



Southern Pacific F-50-16 Flat Car



Southern Pacific F-70-6 and -7 Flat Car

• F-50-16 was effectively a shortened F-70-6/-7



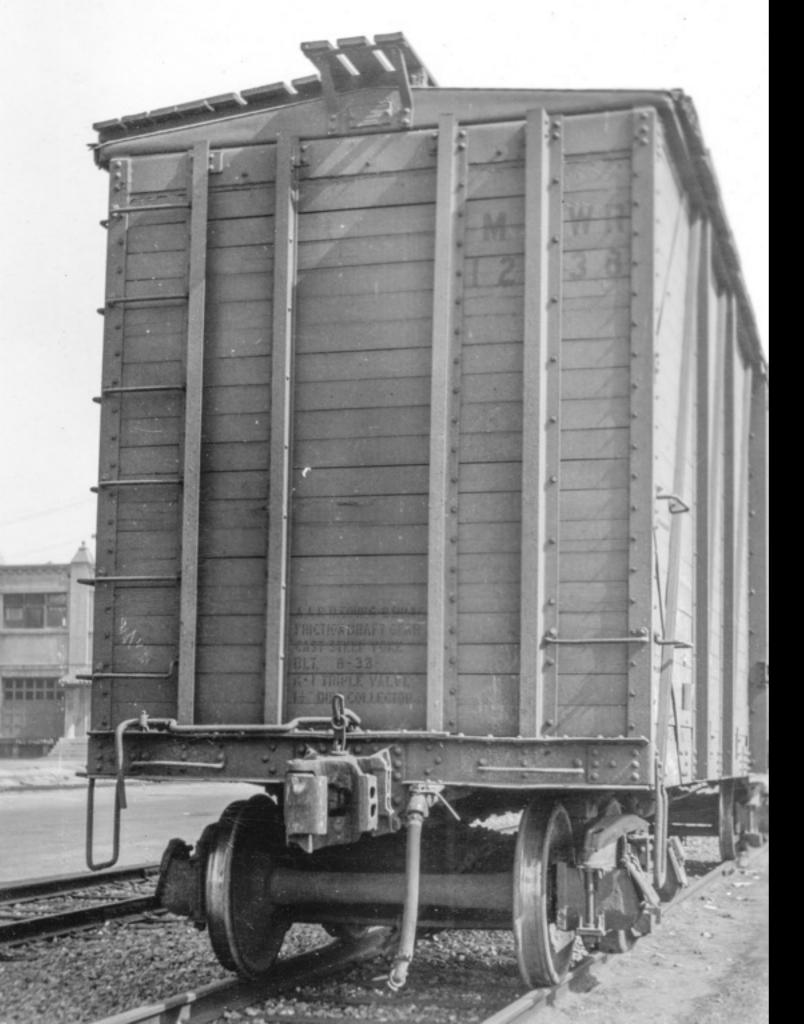
Southern Pacific F-50-16 Flat Car

- Red Caboose offered and the SPH&TS (<u>https://sphts.myshopify.com</u>) now offers the F-70-6/-7 kit
- To make an F-50-16, simply remove center portion of the car (creating a car with two crossbearers and two crossties between the crossbearers)... voila









- Hassler-Profile channel, angle, and zee-bar sections for scratchbuilt sides
- Proto 2000 roof
- Scratchbuild underframe



Maine Central 1923 ARA (proposed) Box Car

- Red Caboose kit with Sunshine Models roof
- Modified doors, ladders, sill steps
- Concord Junction decals



Maine Central 1923 ARA (proposed) Box Car

- Re-roofed with Murphy solid steel panel and diagonal panel roofs
- Some cars had repaired doors
- Speedwitch parts set



Central New Jersey 1923 ARA (proposed) Box Car

- Hutchins Dry Lading roof
- Top-supported three-panel or Youngstown doors
- Dalman two-level trucks with Barber Lateral Motion devices



Central New Jersey 1923 ARA (proposed) Box Car

- Hutchins Dry Lading roof
- Top-supported three-panel or Youngstown doors
- Dalman two-level trucks with Barber Lateral Motion devices



Central New Jersey 1923 ARA (proposed) Box Car

- Red Caboose with Accurail Hutchins Dry Lading roof (hacked from a box car)
- Eastern Car Works Dalman trucks (use Tahoe now)
- Door rollers/hangers and guides from Grandt Line



Lehigh New England 1923 ARA (proposed) Box Car

- Re-roofed with Murphy solid steel diagonal panel roofs
- Apex Tri-Lok running boards
- Power hand brakes
- Lowered placard boards



Lehigh New England 1923 ARA (proposed) Box Car

- Re-roofed with Murphy solid steel diagonal panel roofs
- Plano Apex Tri-Lok running boards
- Power hand brake
- Speedwitch parts set







Finding Kitbashing Opportunities Resources

- Yahoo! Groups, STMFC, RPM-forum, resinfreightcars, etc.
- Railway Prototype Cyclopedia <u>http://</u> <u>rpcycpub.com</u>
- Speedwitch <u>http://speedwitchmedia.com</u>
- Magazine index <u>http://trc.trains.com/</u> <u>magazineindex</u>
- Car Builders Cyclopedia, Train Shed Cyclopedia (excerpts from CBCs), Railway Age, Railway Mechanical Engineer, and other trade publications

Finding Kitbashing Opportunities Resources

- Archer <u>http://www.archertransfers.com</u>
- Hassler Profile <u>http://www.hassler-profile.li</u>
- (Produkte: Profile, site is in German in metric)
- UMM-USA <u>http://umm-usa.com/onlinestore/</u> index.php
- Yarmouth Model Works <u>http://</u> <u>www.yarmouthmodelworks.com/index.php/</u> <u>Home/Index</u>

Finding Kitbashing Opportunities Tools

- A GOOD mitre box and saw
- Saw handle and blades from UMM-USA (not for the mitre box)
- Go to UMM-USA, RP Toolz (<u>http://</u> <u>www.rptoolz.com/?page_id=170</u>) and look around
- Visit <u>hyperscale.com</u> regularly
- Learn!!!
- Buy cheap junk to learn to cut things up and reassemble them

Finding Kitbashing Opportunities

This will be posted to prototopics.blogspot.com

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