Freight Car Project

Ted Culotta

St. Louis RPM Collinsville, IL 26-27 July 2019

This will be posted to prototopics.blogspot.com

A brief recap of last year's project

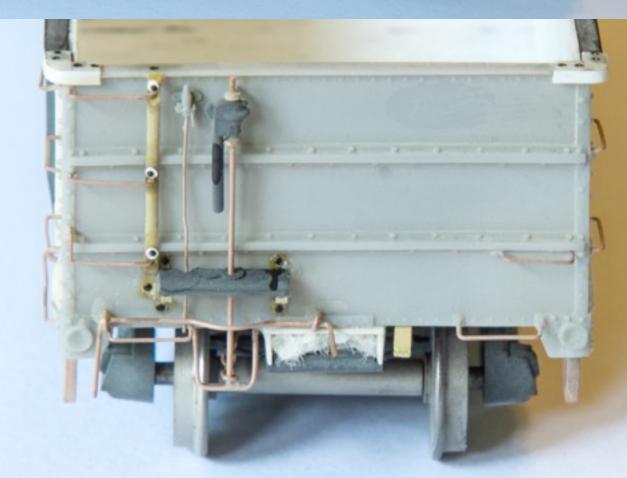


Litchfield & Madison 1701-series Gondola



Updates & Modifications

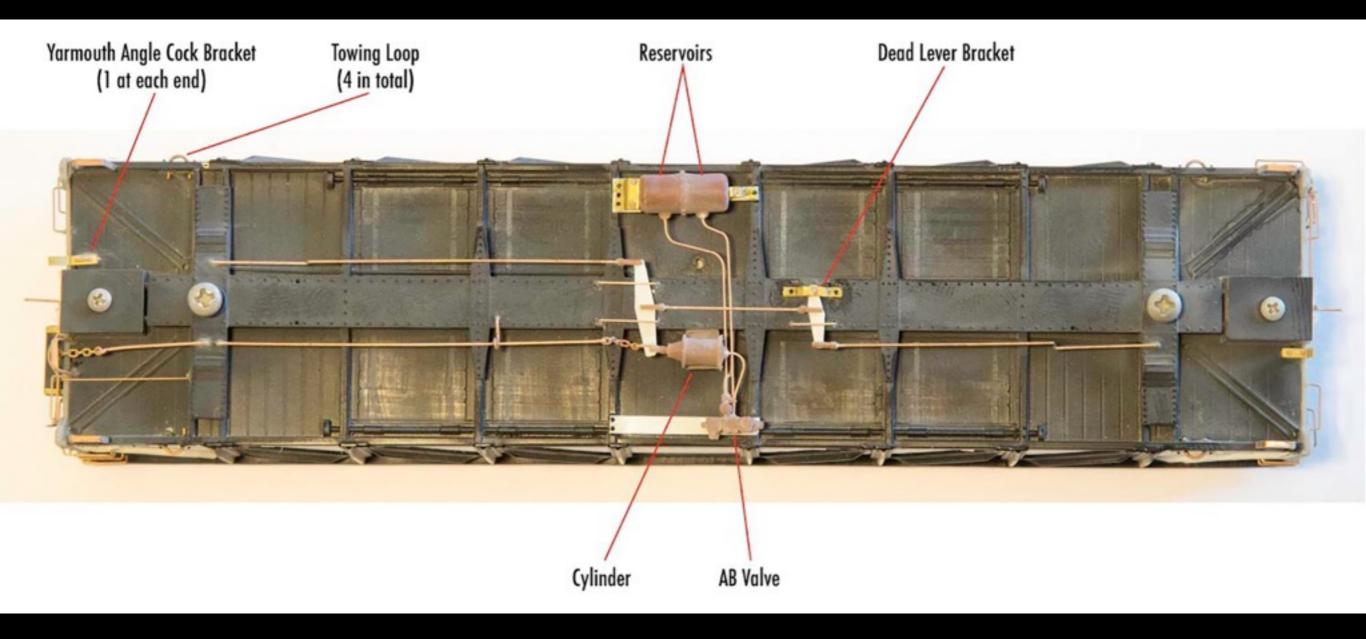
- Re-detailed sides
- New floor boards
- Resin ends
- Modified trucks
- Several scratchbuilt details

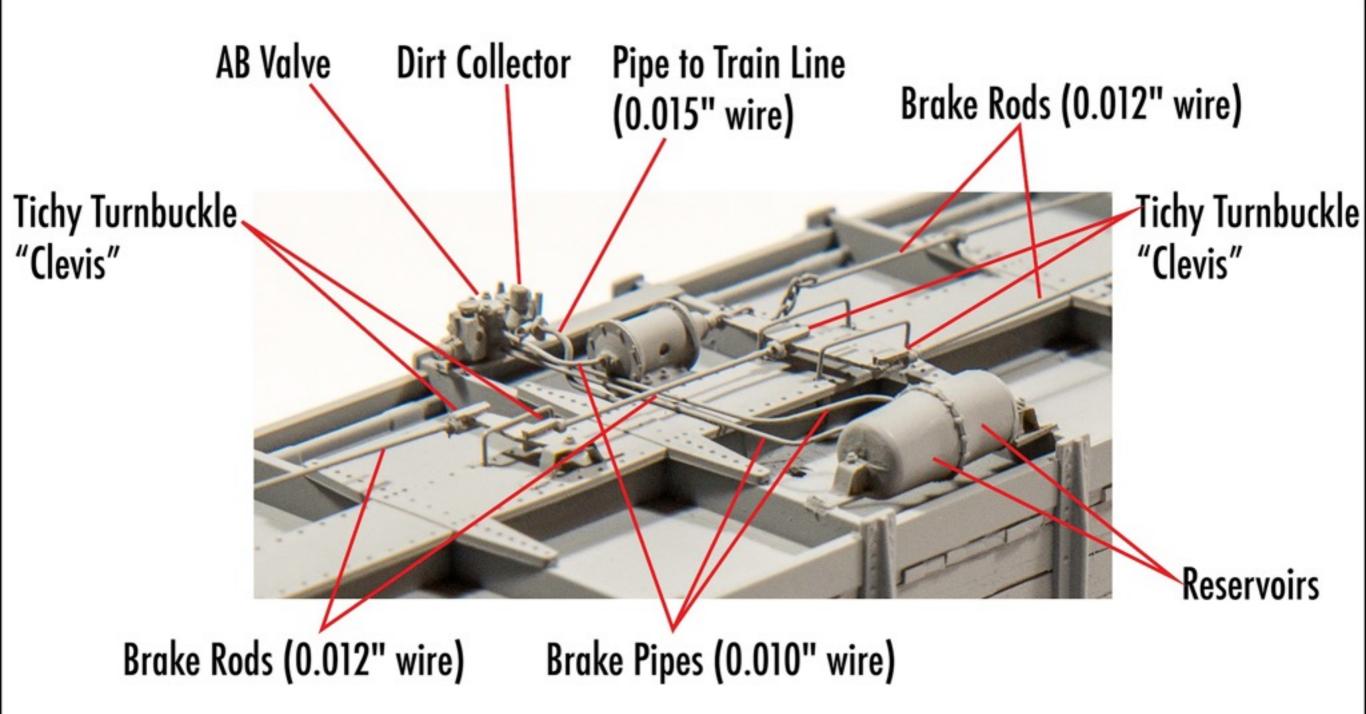




New floor boards

Started at center and worked towards the ends



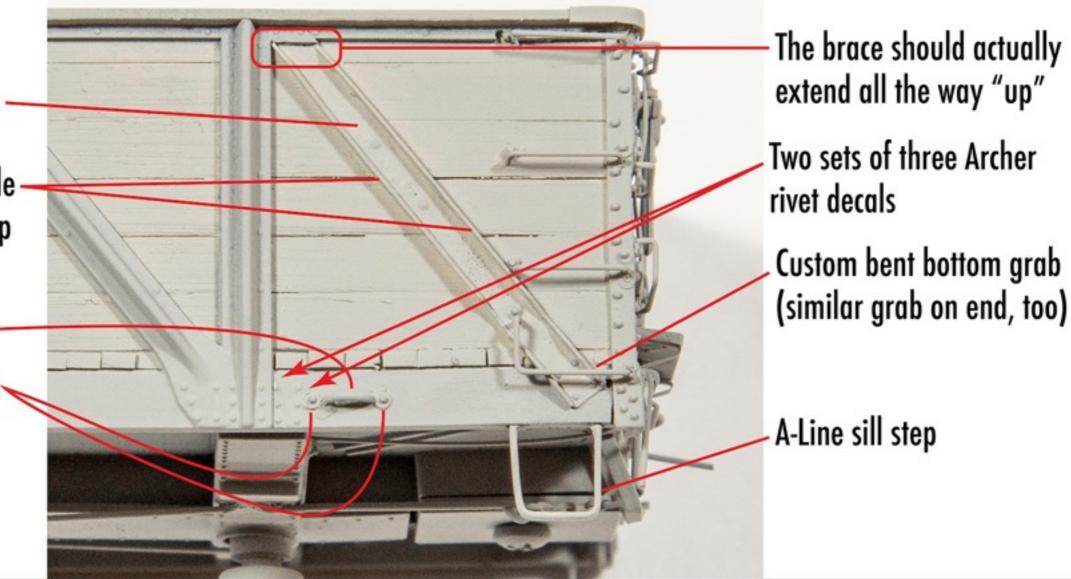


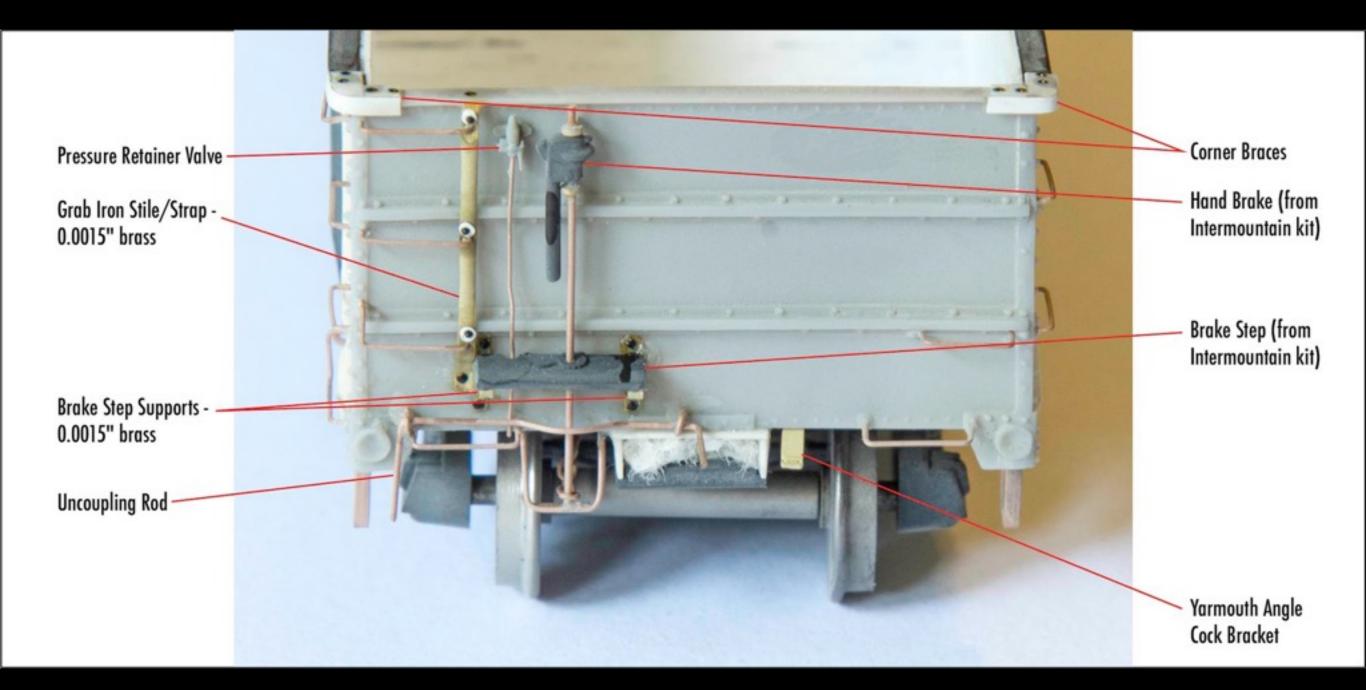
Corner Brace

- 6" (HO scale) wide
 0.005" styrene
- Flanges 0.030" wide
 0.005" styrene strip

Towing Loops

- 0.015" wire ·
- "Mounts" = 0.7mm, discs from 0.005" styrene plus rivets harvested from Athearn snowplow





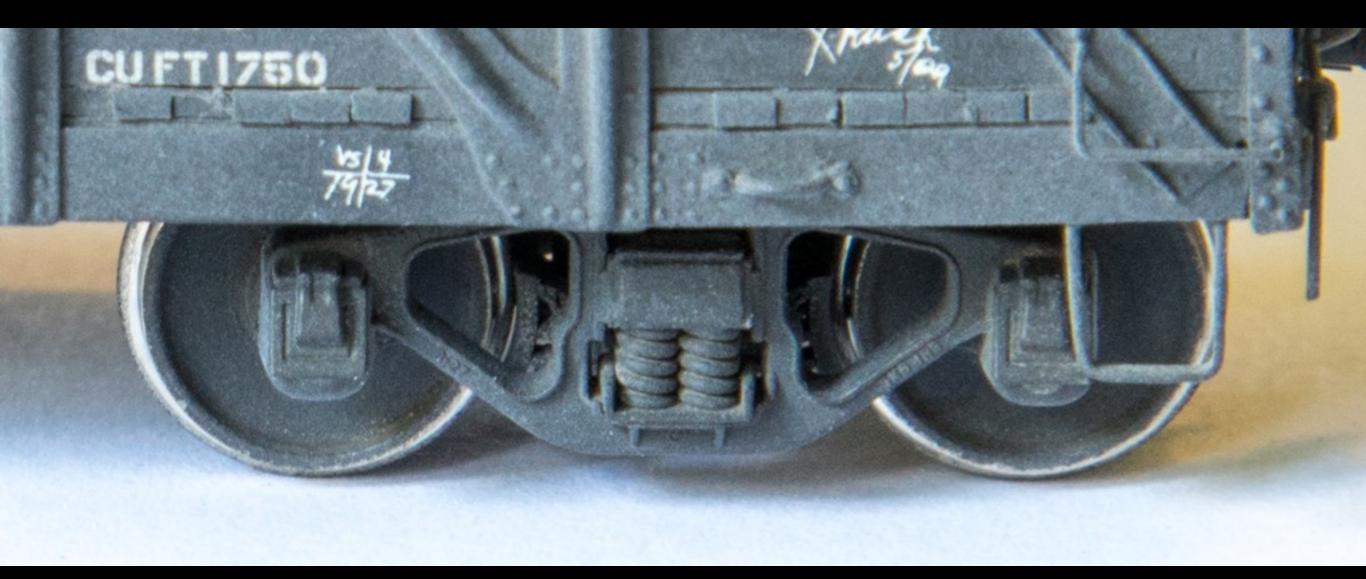




0.040" x 0.125" styrene

Bolster section above where styrene was inserted has a wedge shape

Insert wedge-shaped piece of 0.010" x 0.125" styrene to fill wedge area in bolster. Then add 0.005" strip that is 0.125" wide as a "cap". Finish with piece of 0.010" styrene rod 0.040" x 0.125" styrene after trimming flush with end of bolster



This year's project



AAR-inspired Steel Box & Auto Cars with U-section structural members



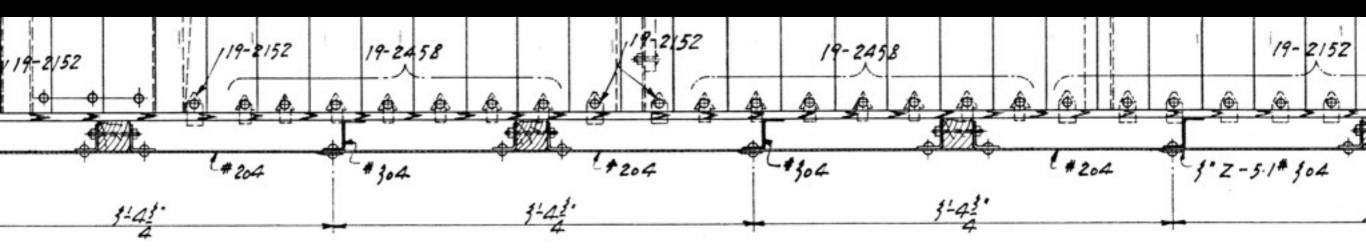
The use of U-section structural members in steel cars is as old as steel car designs, as on this PRR X25

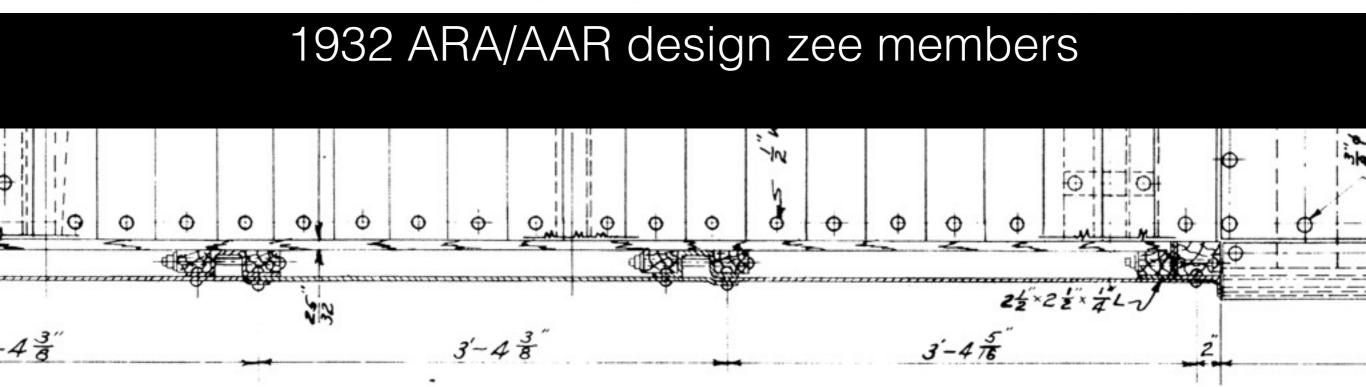


It continued in the USRA all-steel designs, such as those of the NYC System box & auto cars...

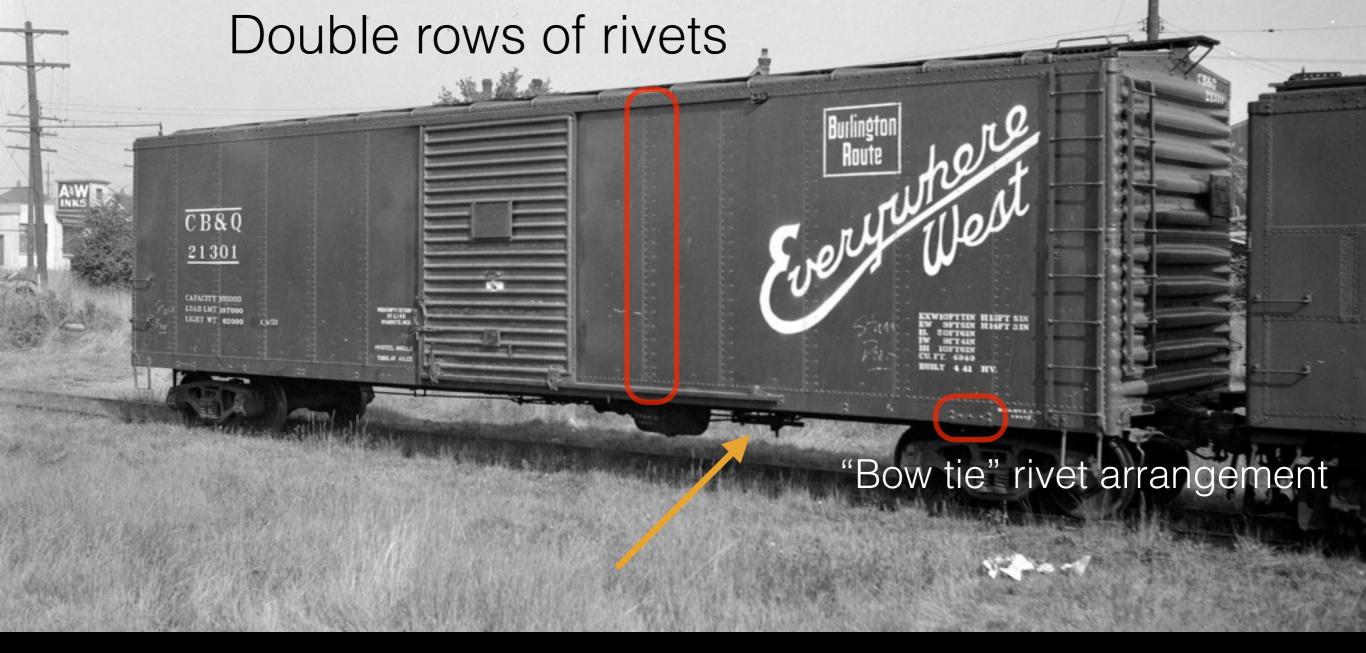


...and the ARA/X29 designs of the 1920s





Flanged, U-shaped members



Burlington 50' AAR box car

- Proto 2000 car
- "Clean" side and add Archer rivets (AR88110)
- Royal Type F Brake regulator (Link to part on Shapeways)
- "Bow-tie" riveting at body bolsters
- Decals from Speedwitch



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

- Proto 2000 car
- "Clean" side and add Archer rivets
- Side sill support under door
- Decals from Speedwitch

Other Prototypes



Missouri-Kansas-Texas 45000-series auto car

- C&BT body
- Proto 2000 doors
- Modified sills
- or Sunshine kit



Missouri-Kansas-Texas 46000-series auto car and to the right...

- Proto 2000 car
- Modified to right of door and side sills
- 4/4 Improved Dreadnaught ends



Southern Pacific A-50-15 auto car

- Proto 2000 car
- 4/4 Improved Dreadnaught ends
- Speedwitch doors
- Modified side sills



CB&Q XA-16 Auto Car

- C&BT body
- Proto 2000 doors (note different widths)
- Modified sills



Southern Pacific A-50-16 Auto Car

- C&BT body
- Branchline (or C&BT) doors
- Modified sills
- or Sunshine kit



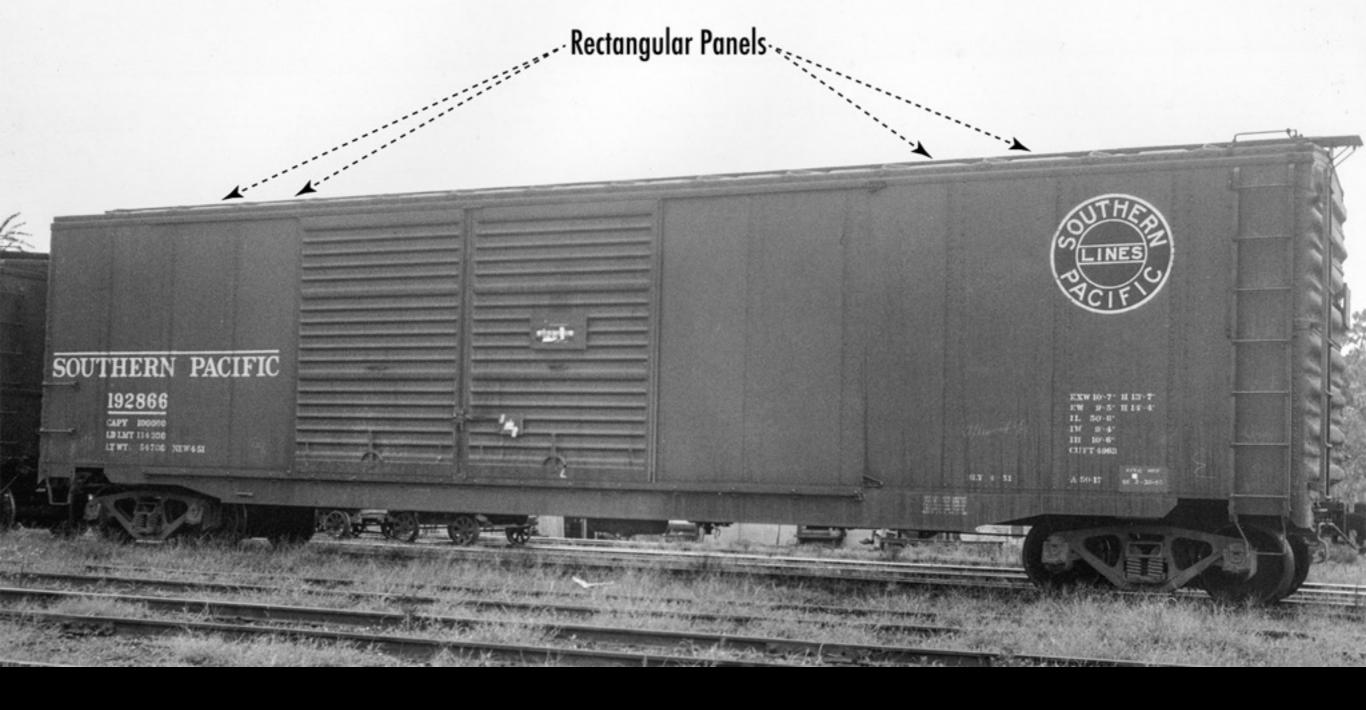
St. Louis Southwestern auto car

- Branchline auto car with modified sills
- Speedwitch doors
- 4/4 Improved Dreadnaught ends
- Tom Madden Murphy roof



Union Pacific

Many classes including A-50-14, -15, -17, -19 (alternate center rivets too), -23



Southern Pacific A-50-17 auto car

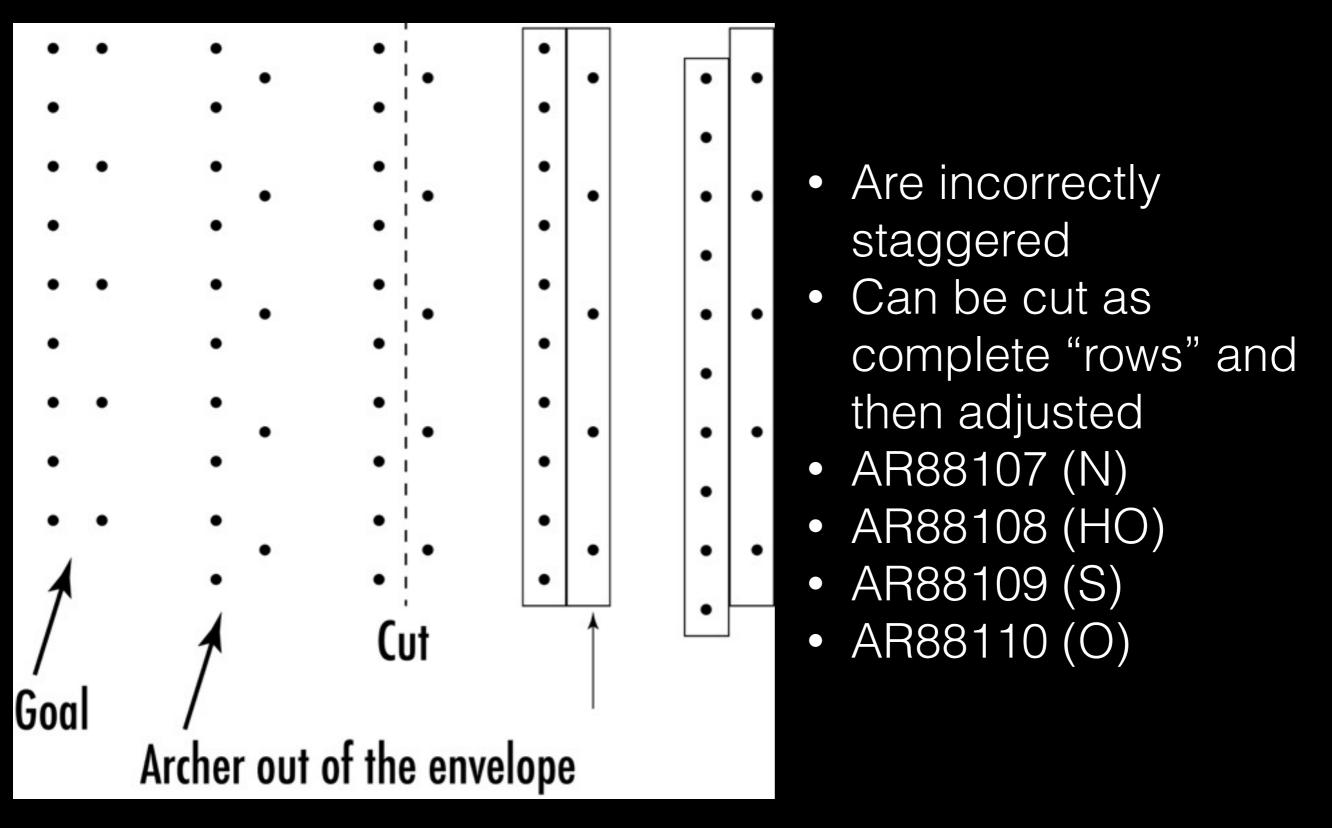
- Branchline auto car with modified sills
- Speedwitch roof

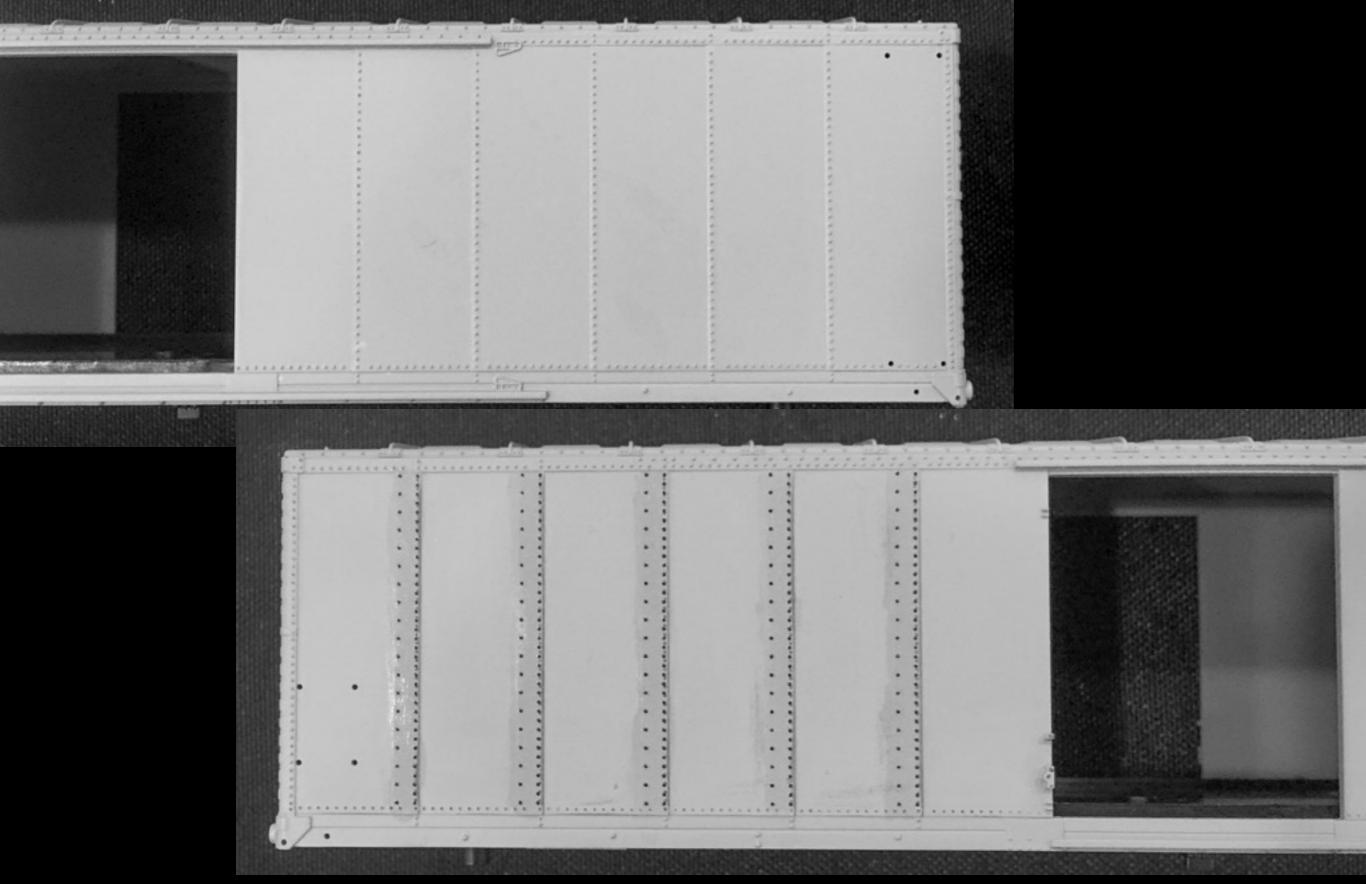


Chicago and North Western riveted PS-1 Auto Car
Speedwitch kit for Chicagoland RPM

Modeling Considerations

Using Archer Rivets





- Remove existing rivets
- Add Archer rivet decals



- Scratchbuilding sides with U-section side structural members
- Scribe panel lines and add Archer rivet decals

(Chicago and North Western riveted PS-1 Auto Car shown here)

Tools & Supplies

- Calipers
- True Sander (Northwest ShortLine)
- The Chopper (Northwest ShortLine)
- A GOOD mitre box and saw
- RP Toolz punch and die (Go to UMM-USA, RP Toolz (<u>http://www.rptoolz.com/?page_id=170</u>) and look around)
- "Chiseling" blades
- Saw handle and blades as well as etched scribing tools from UMM-USA (not for the mitre box)

Resources for parts, decals, etc.

- Archer <u>http://www.archertransfers.com</u>
- Yarmouth Model Works <u>http://</u> <u>www.yarmouthmodelworks.com/index.php/</u> <u>Home/Index</u>
- Speedwitch <u>http://speedwitchmedia.com</u>

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