

Pennsylvania Railroad

Early Welded Box & Auto Cars

St. Louis RPM

14-16 July 2026, Collinsville, IL

Thank you

Joe Acri

Barbara Hall

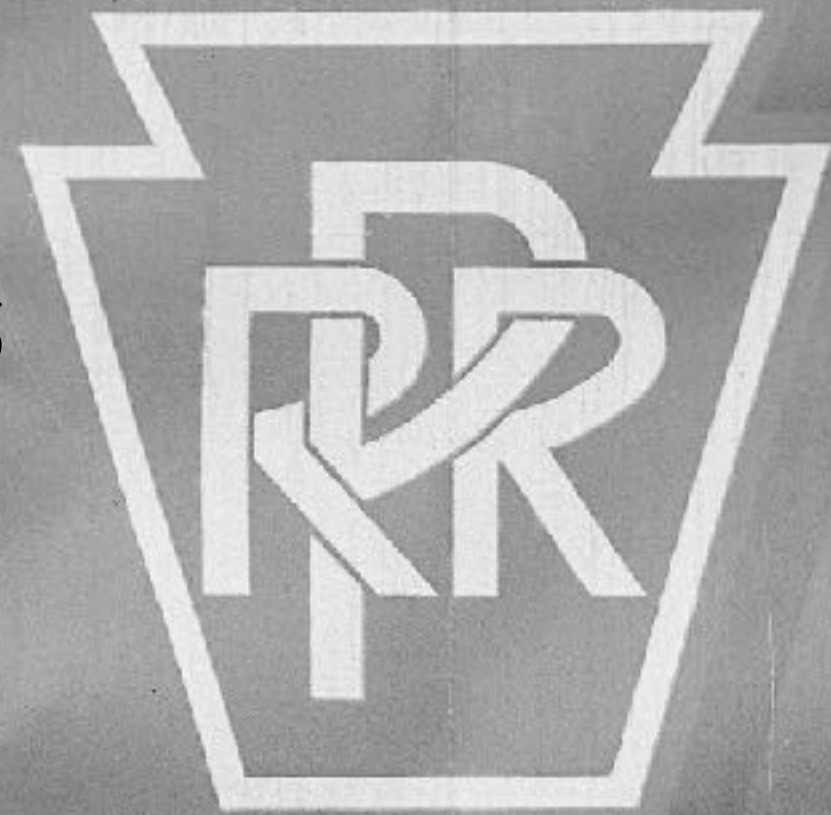
Jim Homoki

Aaron McWilliams

Gerry Schaefer

Adam Chilcote

PRR Railfan site



This will be posted to prototopics.blogspot.com

EX.W. 10-5 H.13-0 E.W. 8-11 H. 14-6

IL.50-6 LW. 9-21.H. 10-6 CU. FT. 4862

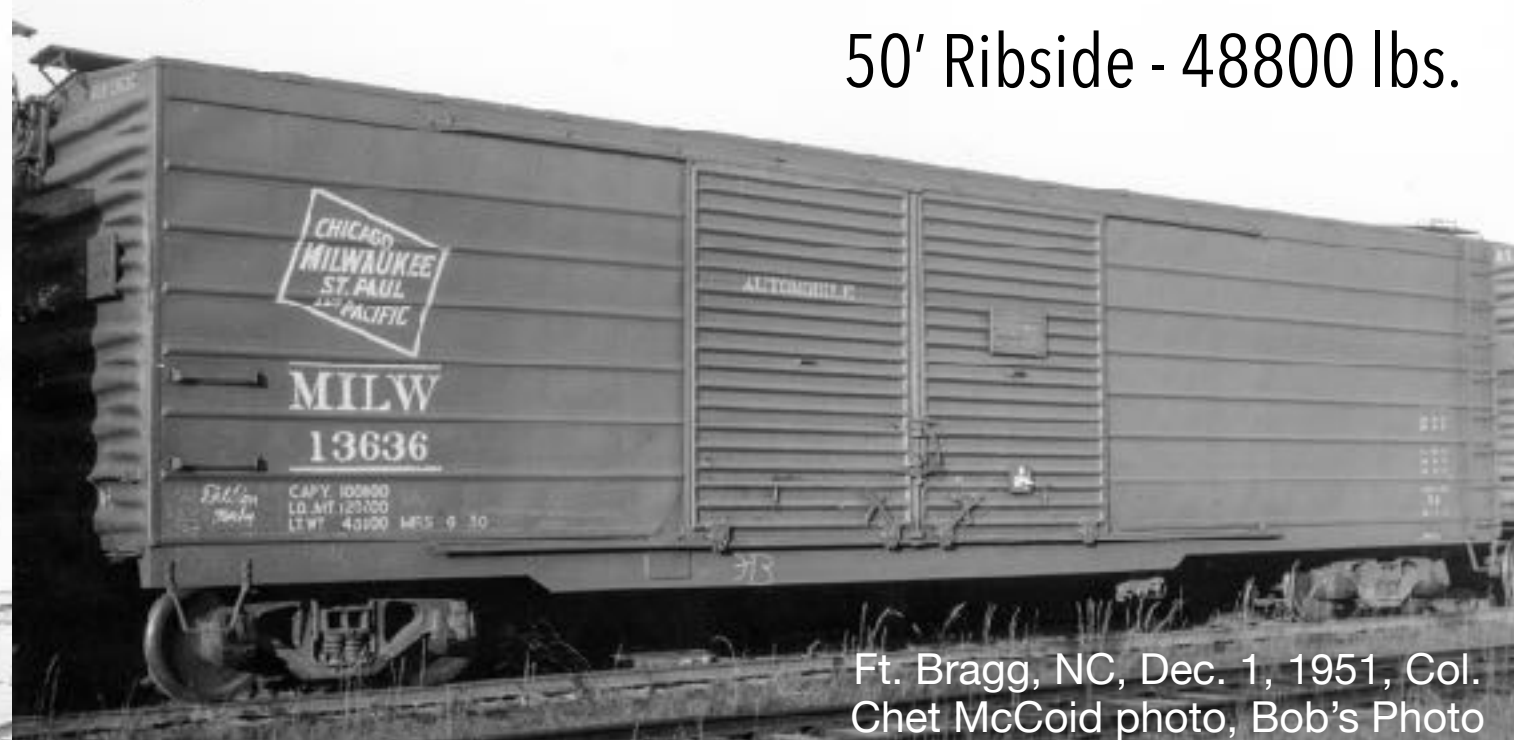
BLT. 11 51

X45

Weight Comparison



X38 - 55000 lbs.



50' Ribside - 48800 lbs.

Ft. Bragg, NC, Dec. 1, 1951, Col. Chet McCoid photo, Bob's Photo



AAR - 56500 lbs.

San Francisco, Will Whittaker



A-50-14 - 55600 lbs.

Cedar Rapids, IA, June, 1941, John C. LaRue, Jr. Collection

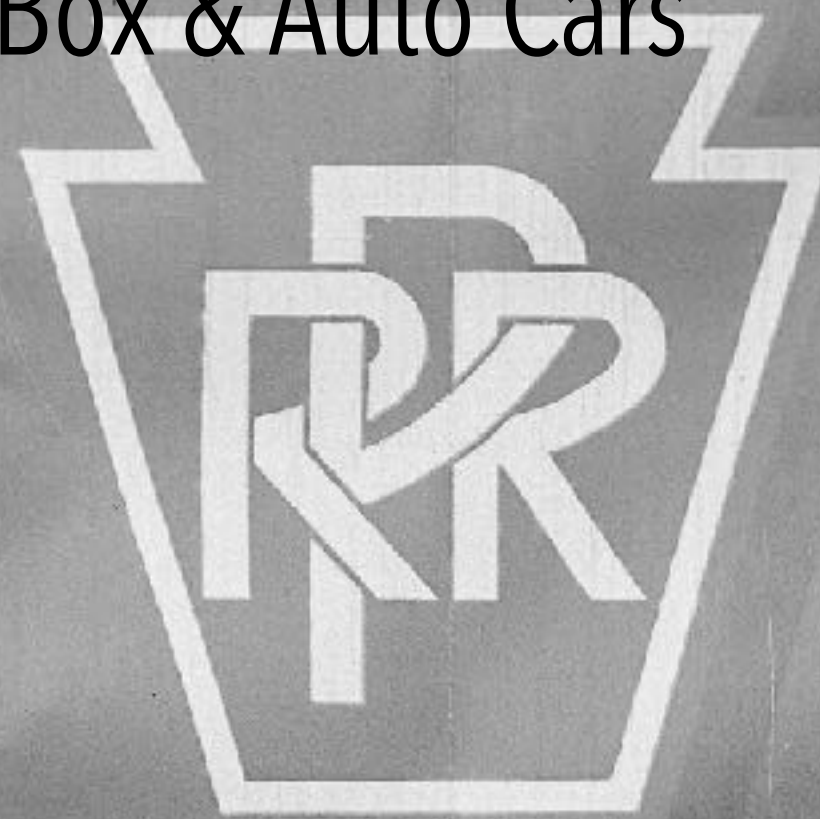


X40 - 49200 lbs.
for a 60' car!

Top left and bottom right - Hagley Museum and Library

PRR Early Welded Box & Auto Cars

Class	Series Start	Series End	Quantity	Notes
X36	103500	103500	1	
X40	36987	36996	10	
X40A	36987	36995	4	from X40
X40C	36996	36996	1	from X40
X40B	36997	37096	100	
X41	84536	84825	290	
X41A	81890	82089	200	
X41B	118491	119990	1500	
X41C	84826	85325	500	
X42	2540	2549	10	Express (Mail Storage) car
X43A	602000	603499	1500	American Car & Foundry
X45	73000	73499	500	
X48	47000	47019	20	Pullman-Standard



EX.W. 10-5 H.13-0 E.W. 8-11 H. 14-6

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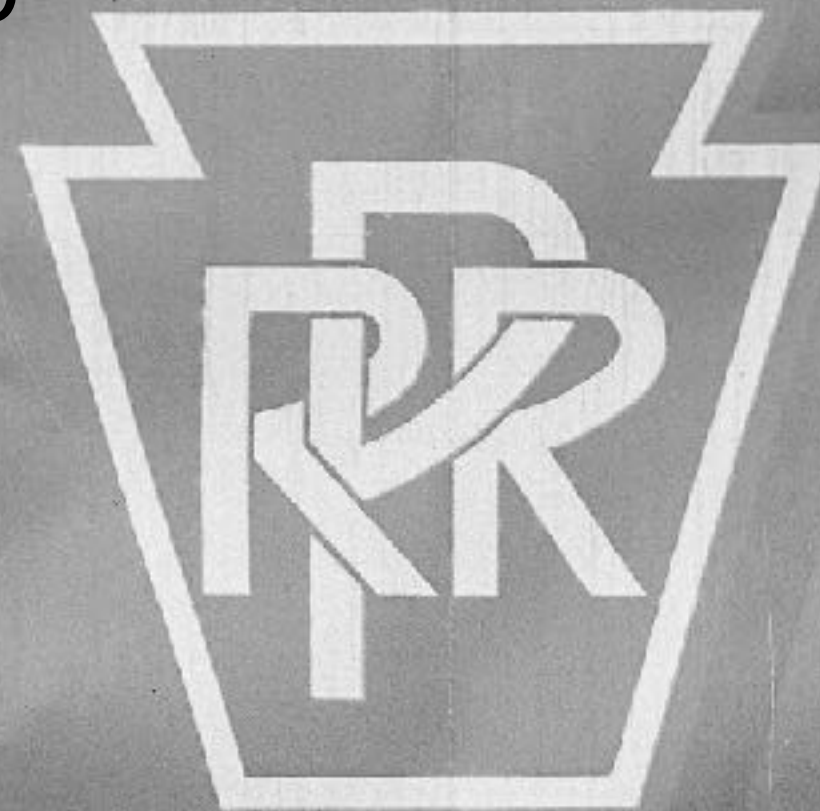
BLT. 11 51

X45

RED

X36

- Built 1936, Altoona
- X36 (1 car)
 - 103500
 - 40'6" IL – 7'0" door opening
- Proprietary design



EX.W. 10-5 H.13-0 E.W. 8-11 H.14-6
IL.50-6 LW. 9-2LH. 10-6 CU.FT. 4862
BLT. 11 51 X45

RED

X36



BLT. 11 51

X 45

X36



BLT. 11 51

X 45

X36



Hagley Museum and Library



X36



11.50-6 LW. 9-21H. 10-6 CU. FT. 4862

BLT. 11 51

X45

J.M.P., Trenton, New Jersey, Sept. 18, 1951



48200 lbs.
vs. 44900 lbs.
vs. 41600 lbs.



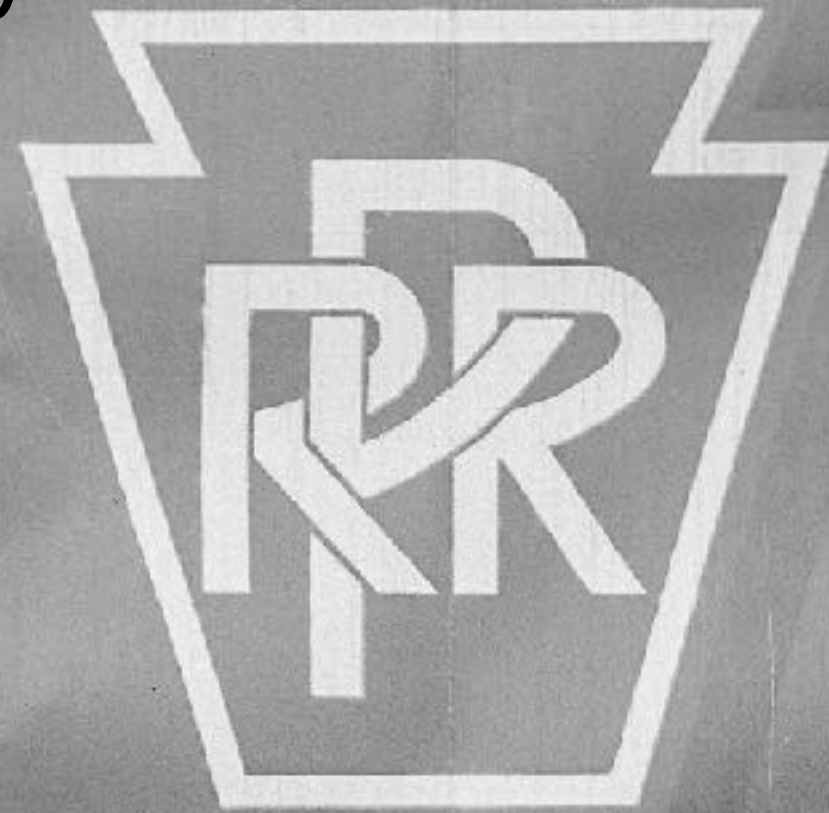
R. Guthlein photo, John
C. LaRue, Jr. Collection



Top and bottom - Hagley
Museum and Library

X40

- Built 1946-1947, Altoona
- X40 (10 cars)
 - 36987-36996
 - 60'6" IL – 18'0" door opening
- X40A (4 cars from X40)
 - 36987-36996
 - 60'6" IL – 7'0" door opening
- X40B (100 cars)
 - 36997-37096
 - 60'6" IL – 7'0" door opening
- X40C (1 car from X40)
 - 36996
 - 50'6" IL – 18'0" door opening
- Proprietary design



EX.W. 10-5 H.13-0 E.W. 8-11 H. 14-6
IL.50-6 LW. 9-2L.H. 10-6 CU. FT. 4862
BLT. 11 51 X45

X40B



X40B



Hagley Museum and Library

Not the Pennsy's first venture in large automobile cars...



-22-31

59273

X40B



E.16501-10-29-47

L.A.W. 10-6 H. 15-0 E.W. 0-11 H. 15-0

LL 50-6 LW 9-2 LH 10-6 CU. FT. 4862

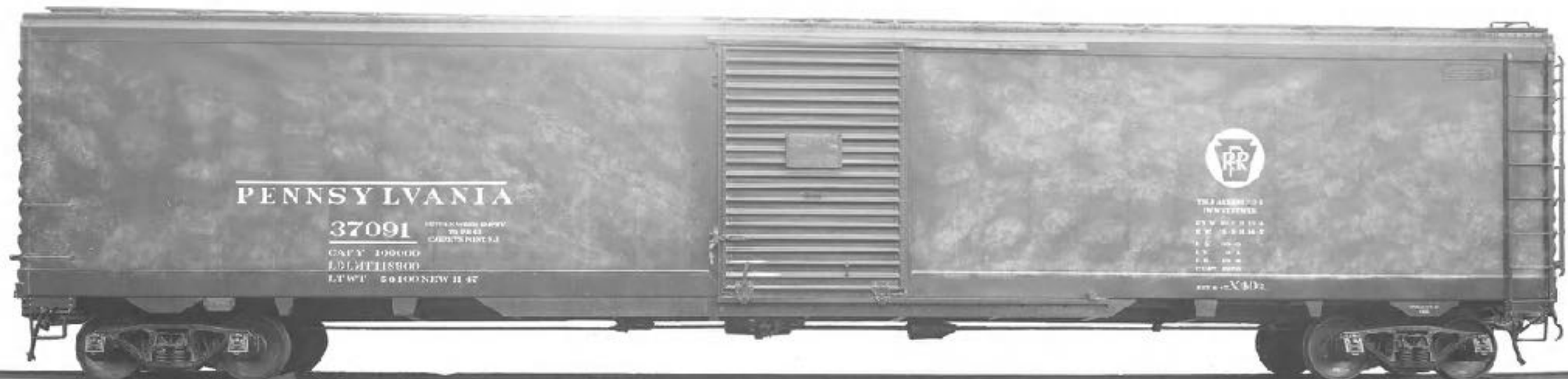
BLT. 11 51

X45

X40B



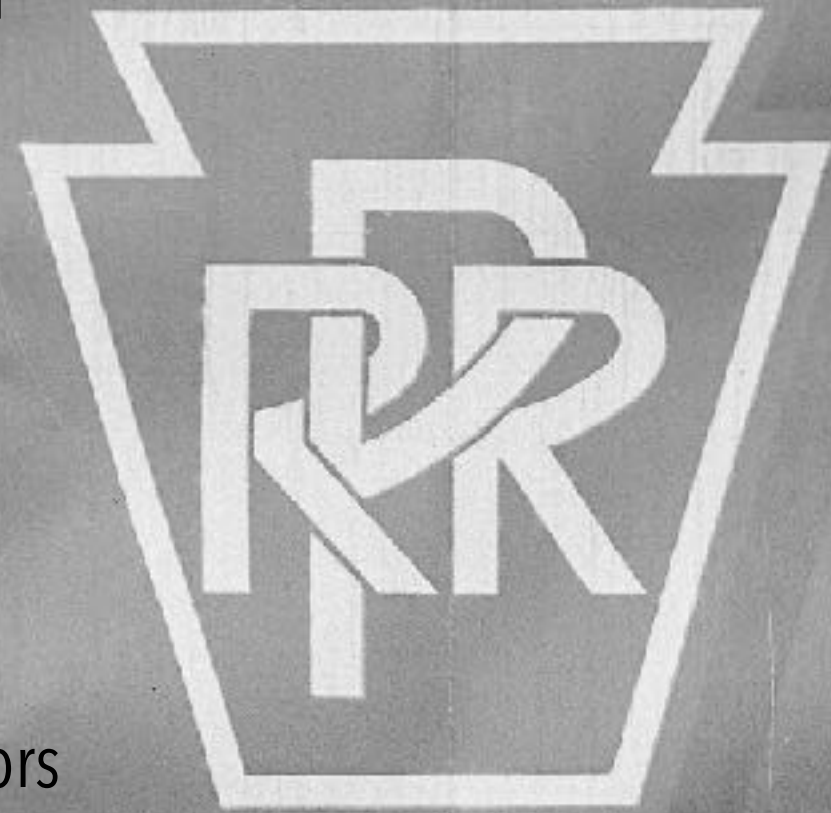
X40B





X41

- Built 1947-1948, Altoona
- X41 (290 cars)
 - 84536-84825
 - 50'6" IL – 14'6" door opening
- X41A (200 cars)
 - 81890-82089
 - 50'6" IL – 14'6" door opening; end doors
- X41B (1500 cars)
 - 118491-119990
 - 50'6" IL – 7'0" door opening
- X41C (500 cars)
 - 84826-85325
 - 50'6" IL – 14'6" door opening
- Proprietary design



EX.W. 10-5 H.13-0 E.W. 8-11 H. 14-6
IL.50-6 LW. 9-2L.H. 10-6 CU. FT. 4862
BLT. 11 51 X45

X41B



Presenter's collection

X41B



Fayetteville, NC, Dec. 24, 1951, Col. Chet McCoid photo, Bob's Photo, Collection of J. P. Barger

BLT. 11 51

X45

X41B



San Diego, Nov. 23, 1954, Col. Chet McCoid photo, Bob's Photo

X41B



Hagley Museum and Library

BLT. 11 51

X 45

RED

X41B



11.50-6 LW. 9-21H. 10-6 CU. FT. 4862

BLT. 11 51

X45

RED

X41K (X41B)



Hagley Museum and Library

ILL. 50-6 I.W. 9-21 H. 10-6 CU. FT. 4862

BLT. 11 51

X45

RED

X41c



Hagley Museum and Library

X41c



X41c



11,500 LB. 9' 2 1/2" H. 10' 6" C.O. P.T. 4' 0 1/2"

BLT. 11 51

X45

Denver, Sept. 2, 1955, Otto Perry photo, Denver Public Library

RED

X41c

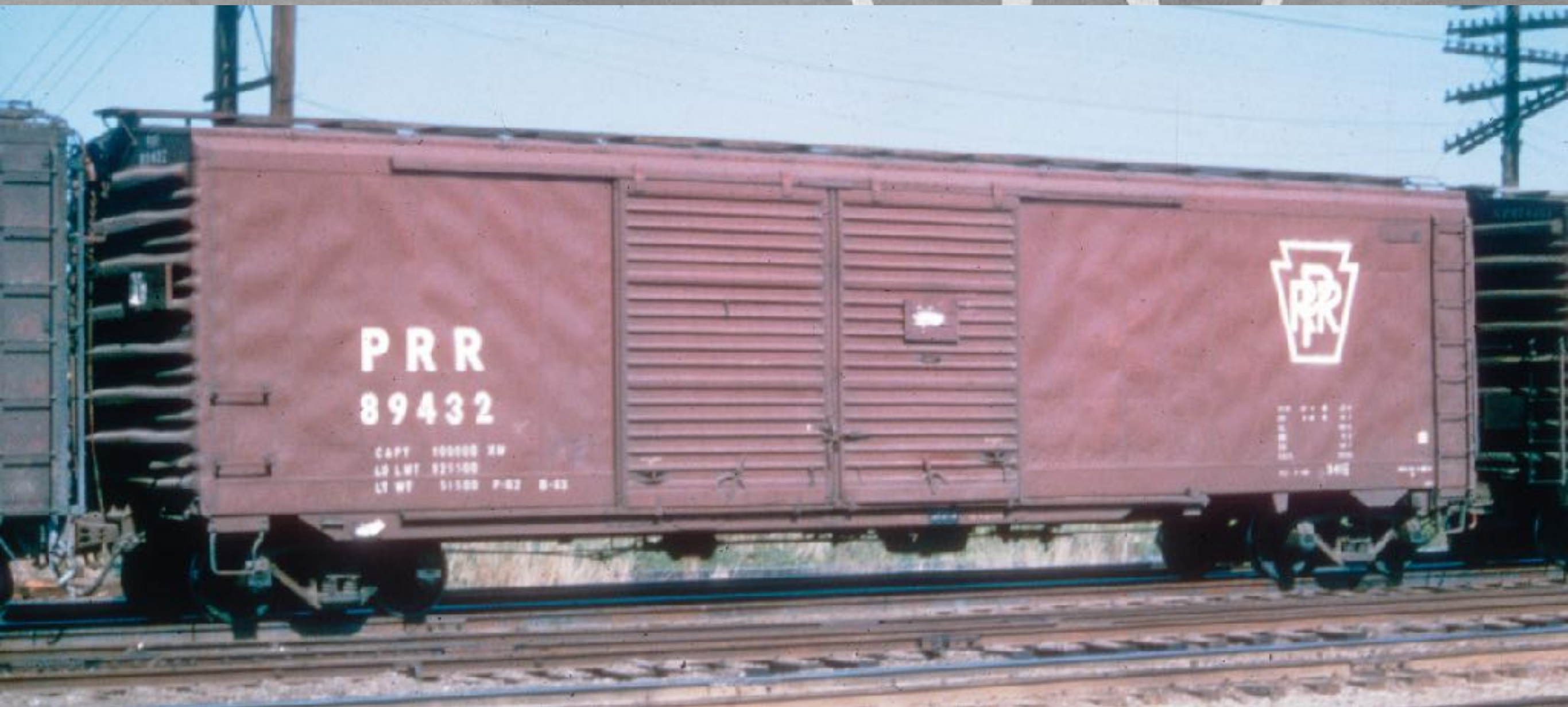


R. R. Wallin Collection

X41c



X41E (X41C)



BLT. 11 51

X45

RED

X41F (X41A)

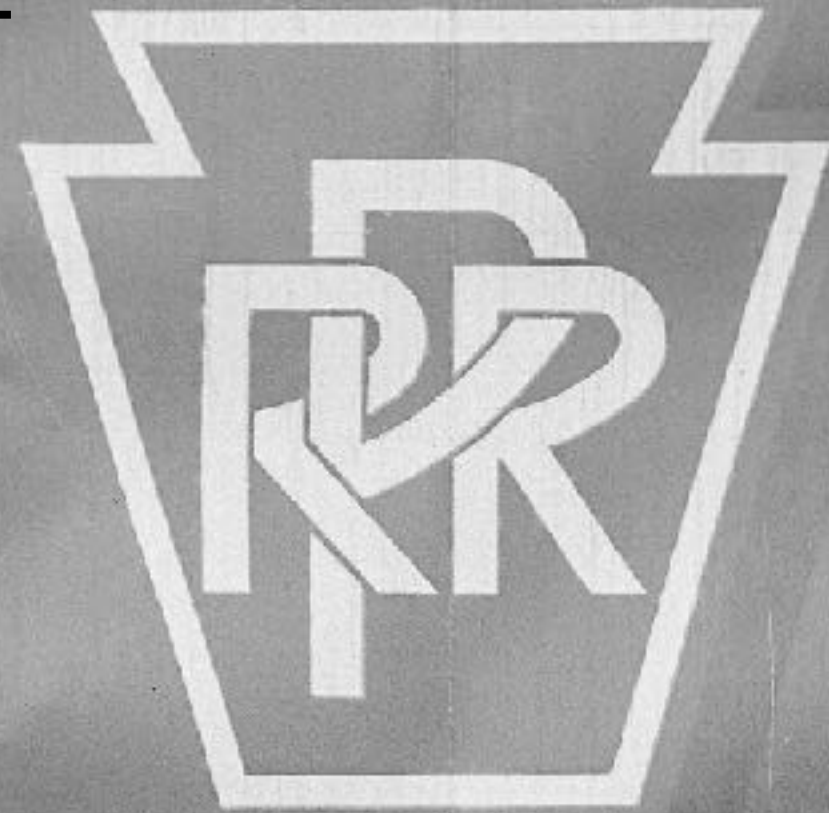


X41F
(X41A)



X42

- Built 1950, Altoona
- 2540-2549 (10 cars)
- 60'0" IL – 7'0" door opening (two)
- Article by Chuck Yungkurth, including drawings, appeared in October, 1999, *Railroad Model Craftsman*



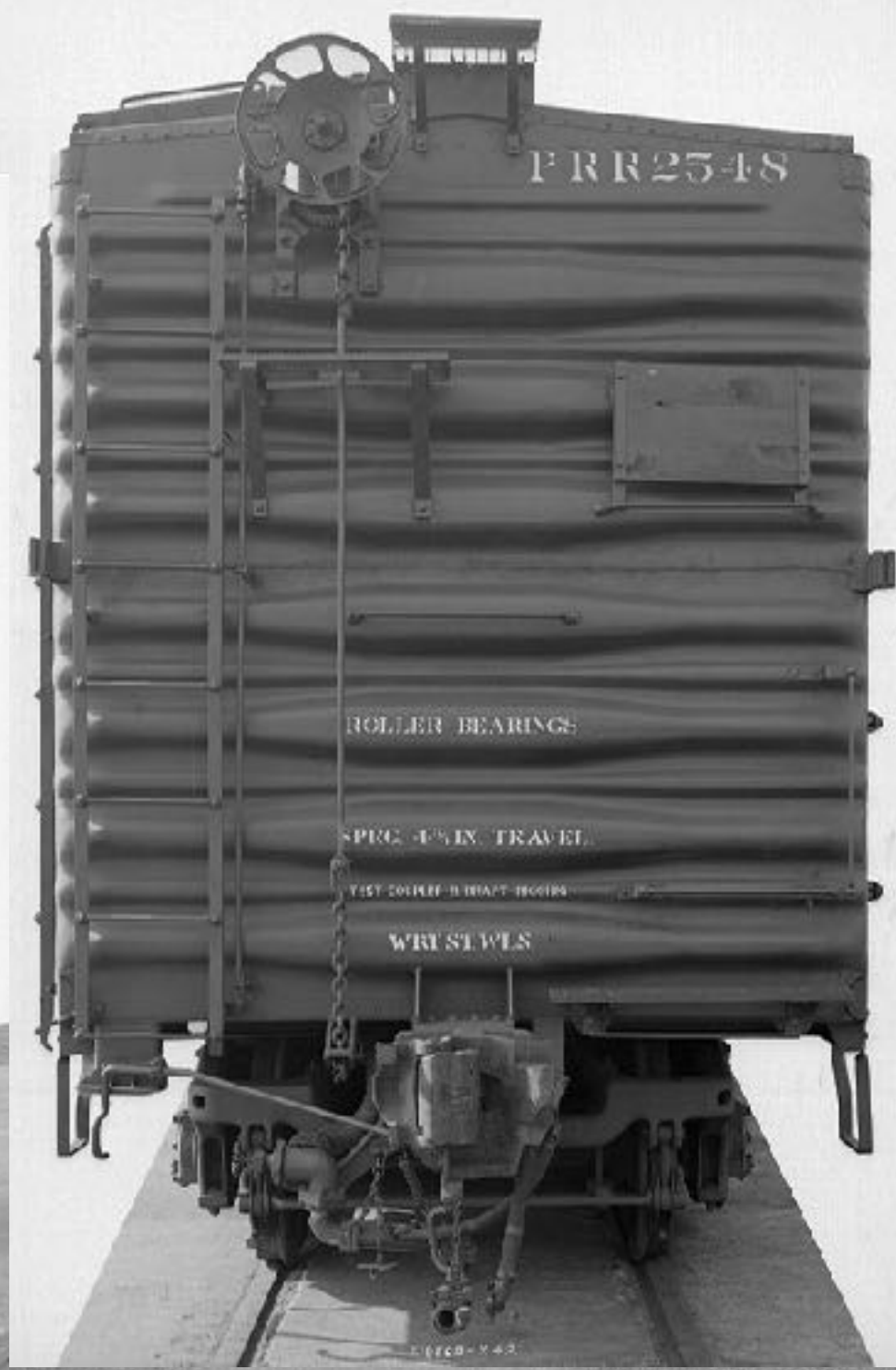
EX.W. 10-5 H.13-0 E.W. 8-11 H. 14-6
IL.50-6 LW. 9-2L.H. 10-6 CU. FT. 4862
BLT. 11 51 X45

RED

X42



Hagley Museum and Library



862

RED

X42



X43A

- Built 1950-1951, American Car & Foundry, Berwick
- 602000-603499
- 40'6" IL – 7'0" door opening
- AAR-design; welded construction



EX.W. 10-5 H.13-0 E.W. 8-11 H.14-6

IL.50-6 LW. 9-2LH. 10-6 CU.FT. 4862

BLT. 11 51

X45

RED

X43A



BLT. 11 51

X45

X43A



Ft. Bragg, NC, Oct. 11, 1951, Col. Chet McCoid photo, Bob's Photo

X43A



Brooklyn, NY, Sept. 18, 1955

BLT. 11 51

X 45

X43A



BLT. 11 51

X45

RED

X43A



X43A



BLT. 11 51

X45

Potomac Yard, June, 1968, Bob's Photo, Collection of J. P Barger

X43A



For context, an X43B

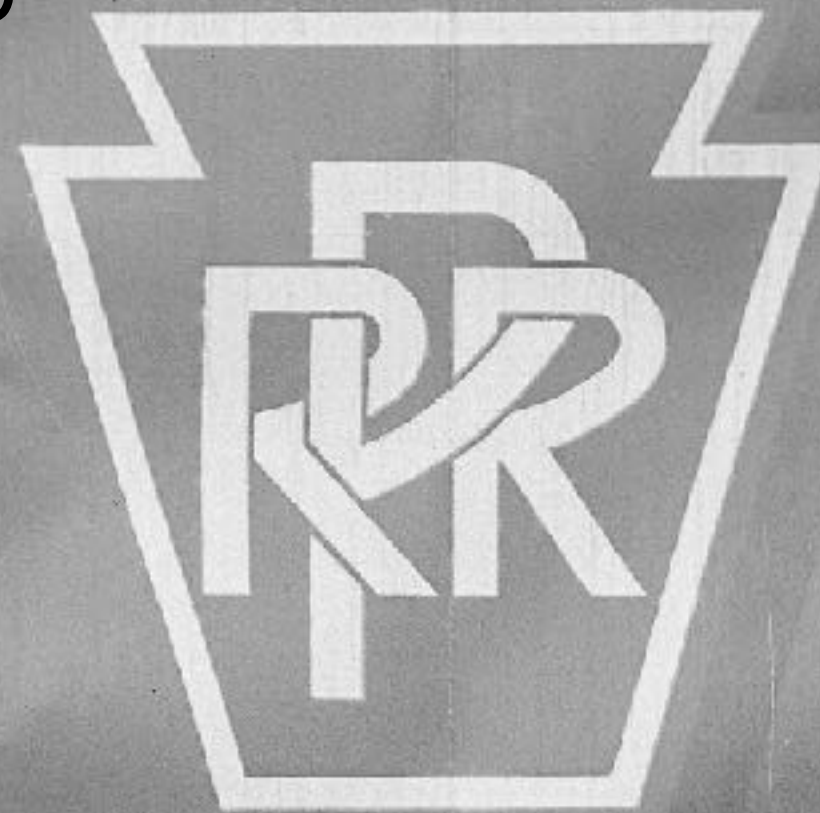


BLT. 11 51 X45

Vancouver, BC, Walter E. Frost, Vancouver Public Library

X45

- Built 1951, Altoona
- 73000-73499
- 50'6" IL – 8'0" door opening
- Proprietary design



EX.W. 10-5 H.13-0 E.W. 8-11 H.14-6

IL.50-6 LW. 9-2LH. 10-6 CU.FT. 4862

BLT. 11 51

X45

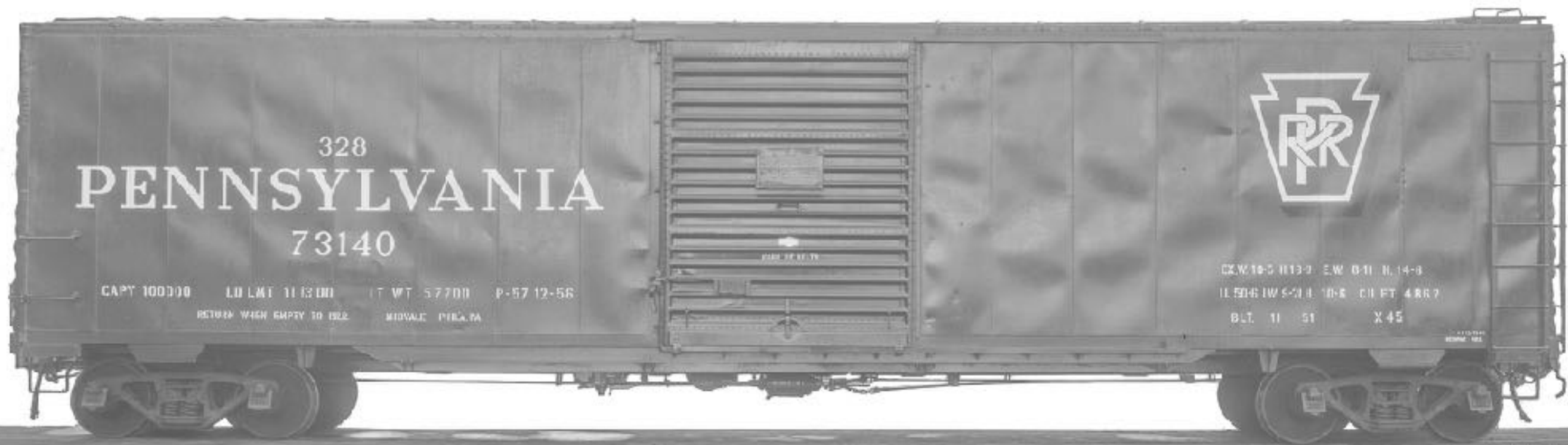
RED



X45



X45



E 21232

IL 50-6 LW 9-2 H 10-6 CU. FT. 4862

BLT. 11 51

X45

X45



E-22214

ILL. 50-6 LW. 9-21 H. 10-6 CU. FT. 4862

BLT. 11 51

X45

X45



11.50-6 LW. 9-21H. 10-6 CU. FT. 4862

BLT. 11 51

X45

Los Angeles, Mar. 7, 1976, Steve Vincent
photo, courtesy of Matthew Herson

X45



X45



X45



Conrail Photo Archive

BLT, 11 51

X45

RED

X48

- Built 1954
- 47000-47019
- PS-1 design
- Cushion underframe
- *Mainline Modeler*,
January 2002



Hagley Museum and Library

H0 Scale Modeling

- X40 series – Rail Classics (brass)
- X41 series – Sunshine Models
- X42 – Funaro & Camerlengo
- X43A – Speedwitch (pattern work in process)
- X45 – Speedwitch (pattern work in process)
- X48 – Kadee kitbash



EX.W. 10-5 H.13-0 E.W. 8-11 H.14-6

IL.50-6 LW. 9-2LH. 10-6 CU.FT. 4862

BLT. 11 51

X45

RED

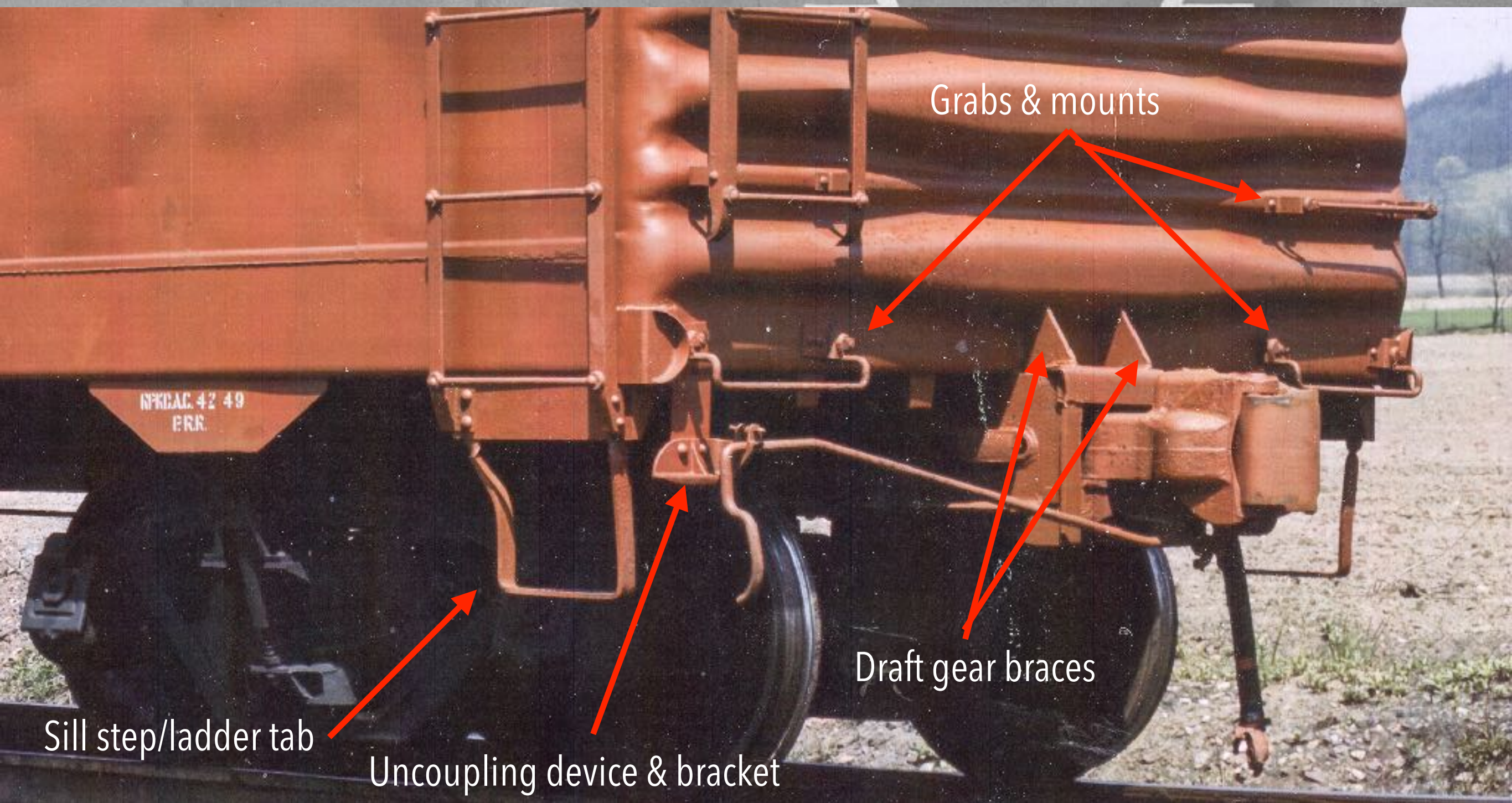
Sunshine Models X41B:

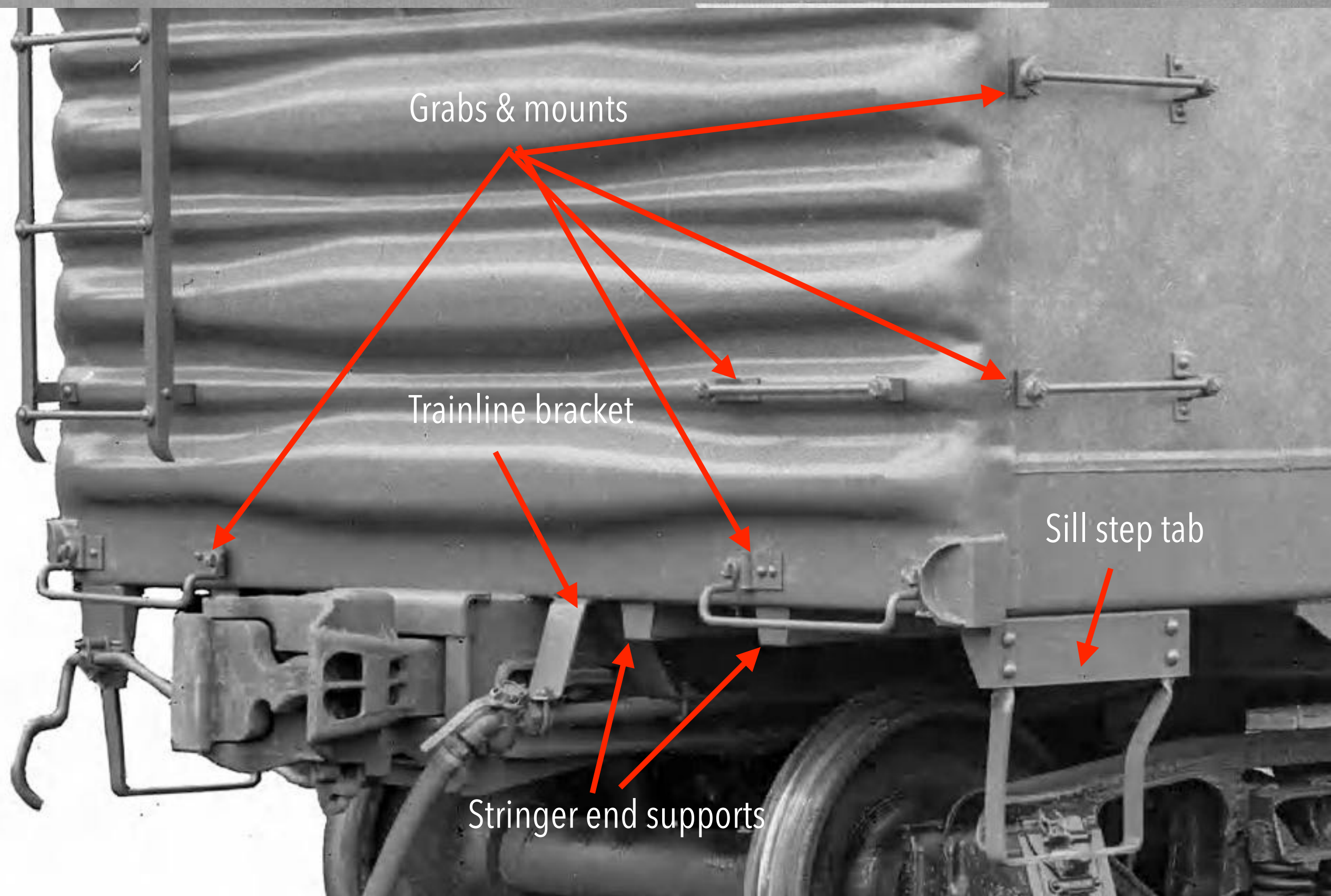
Modeling Considerations

- Underframe – entirely wrong
- Grabs
- Ladders
- Lower side/sill steps
- Side sill tab supports
- Door frame brace
- Additional details
 - Draft gear braces
 - Brake levers
 - Royal brake adjuster
 - Trust plates

EX.W. 10-5 H.13-0 E.W. 8-11 H.14-6
LL.50-6 LW. 9-2 LH. 10-6 CU. FT. 4862
BLT. 11 51 X45

Sunshine Models X41B:



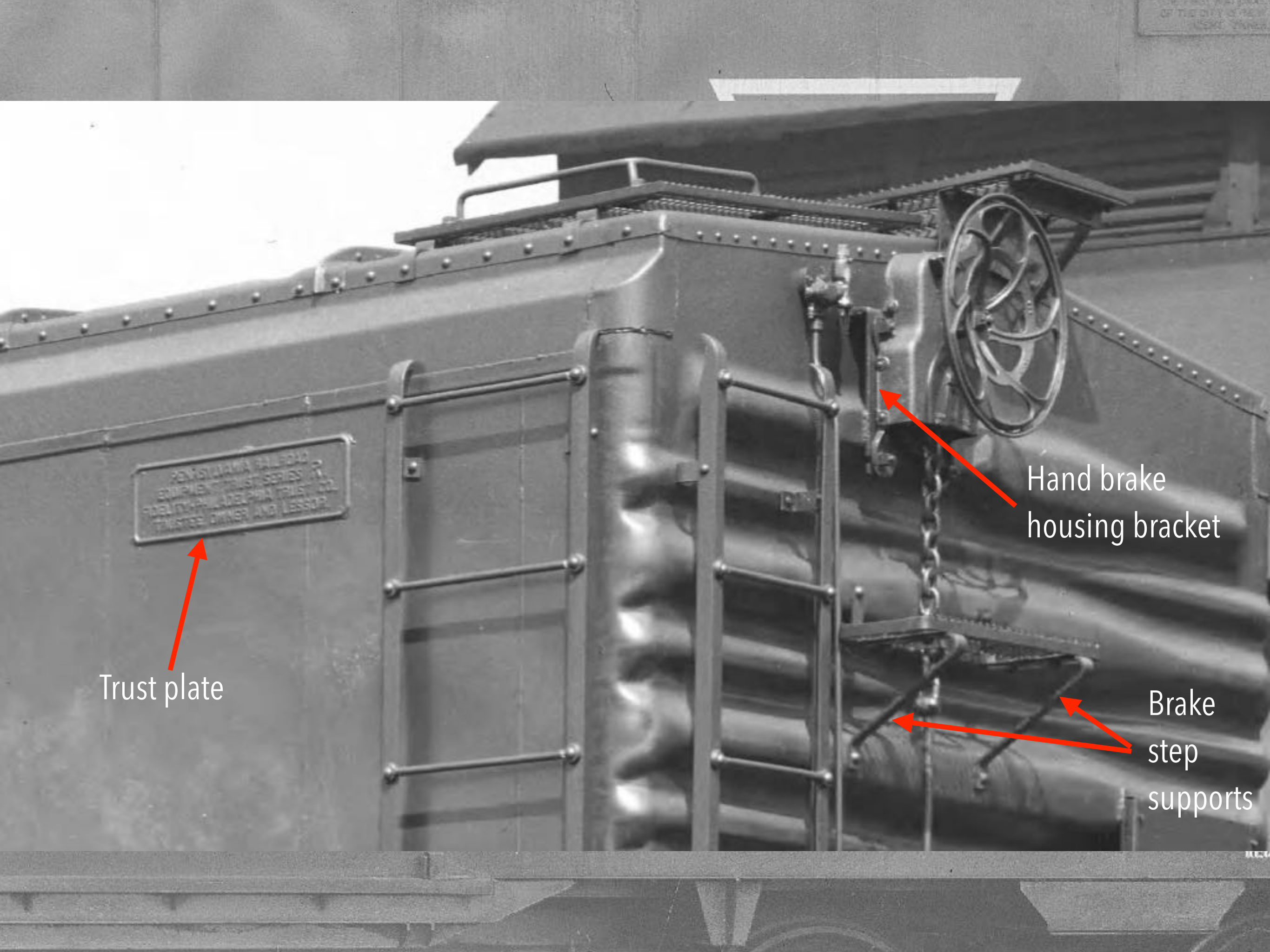


Grabs & mounts

Trainline bracket

Sill step tab

Stringer end supports



PENNSYLVANIA RAILROAD
EQUIPMENT TRUST SERIES 11
"IDENTITY" PHILADELPHIA TRUST CO.
TRUSTEE, OWNER AND LESSOR

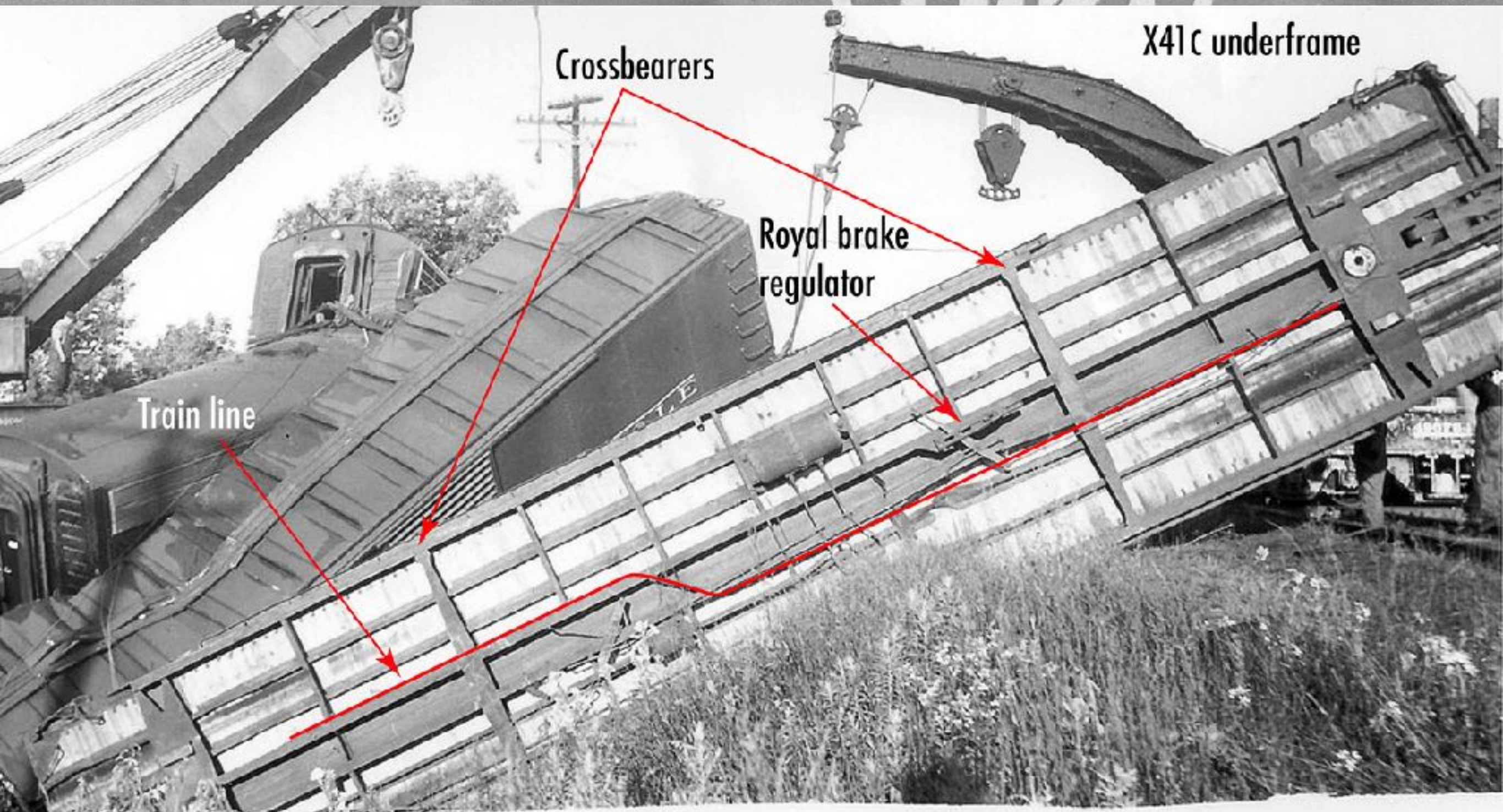
Trust plate

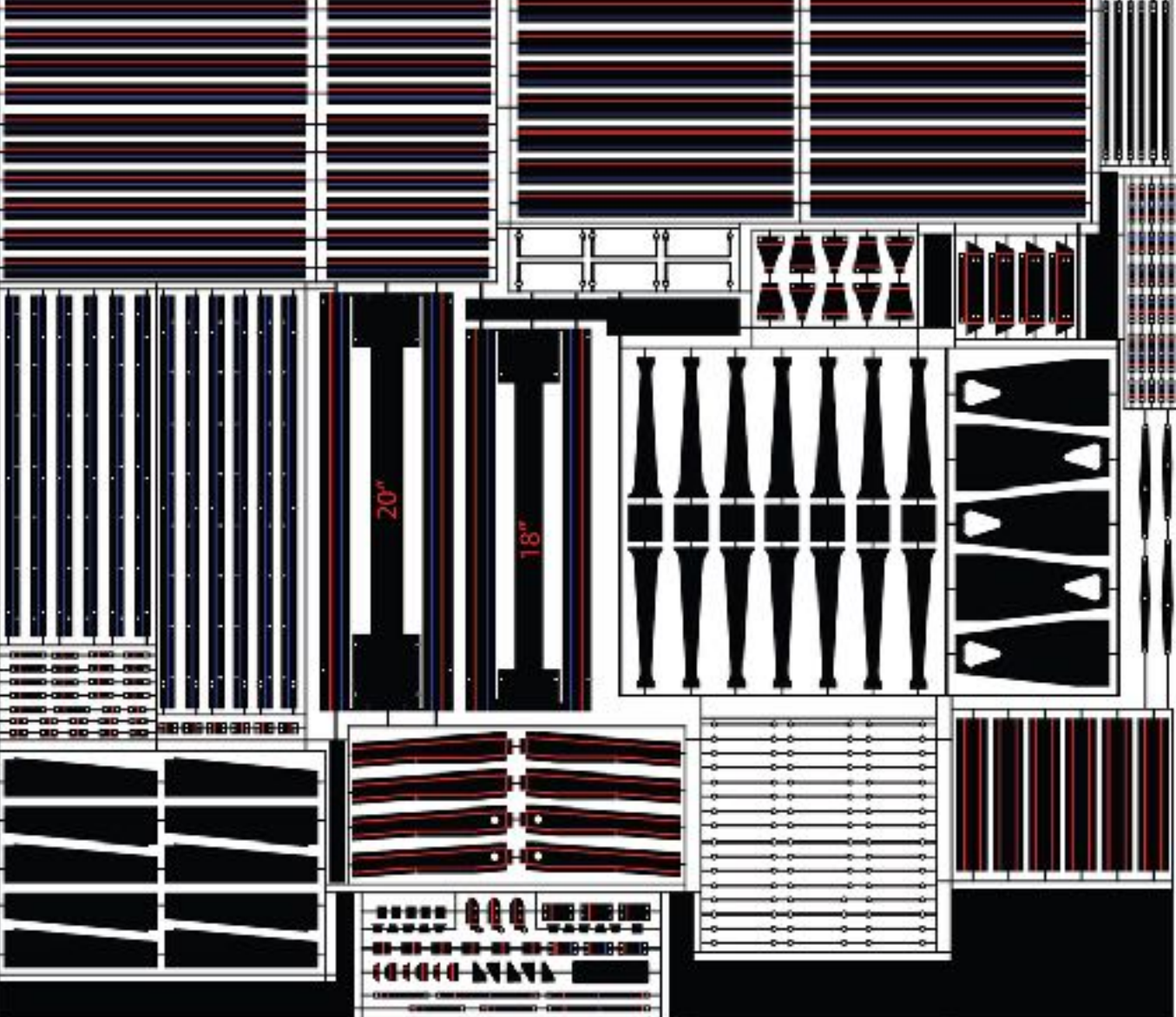
Hand brake
housing bracket

Brake
step
supports

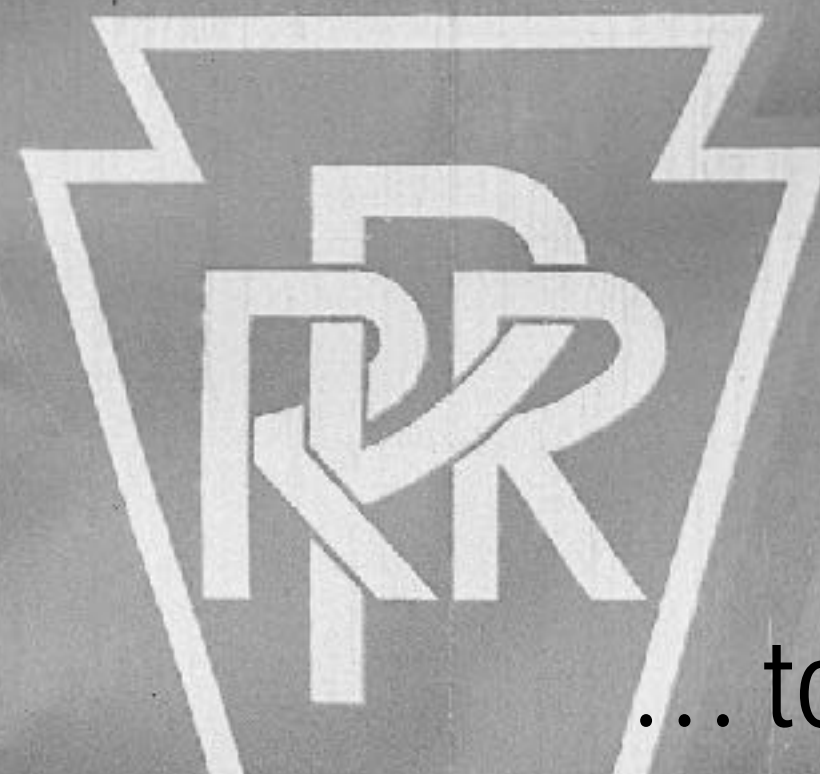


The underframe X41C





From artwork...



... to etchings



... to etchings

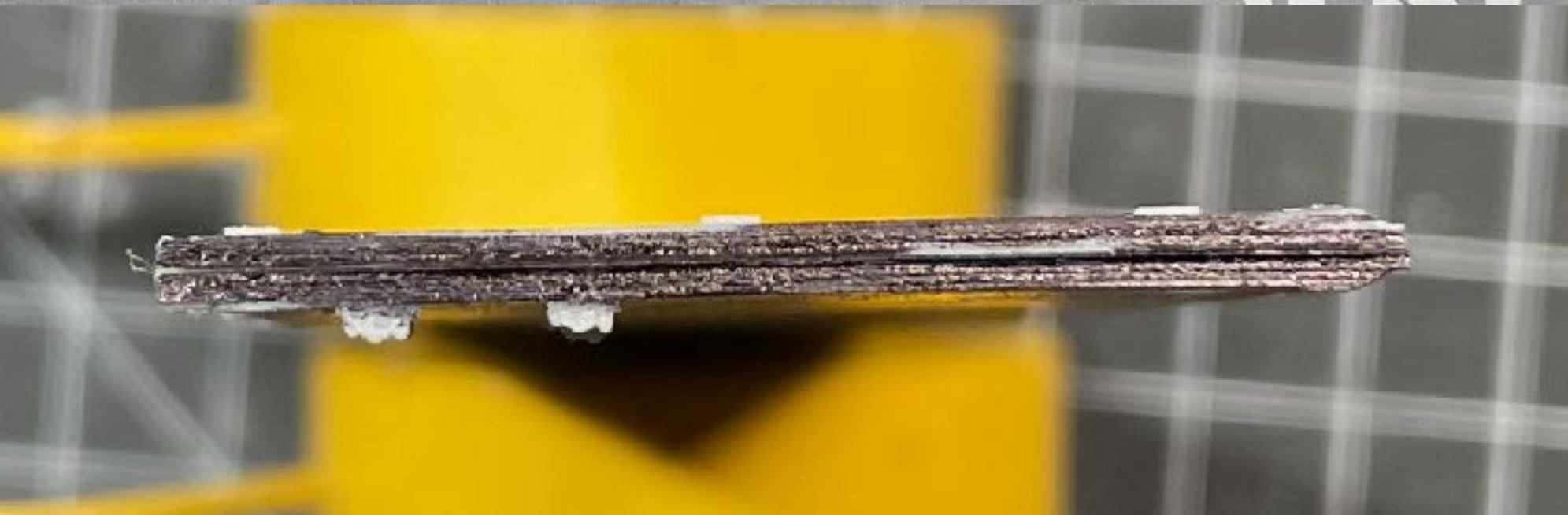


6

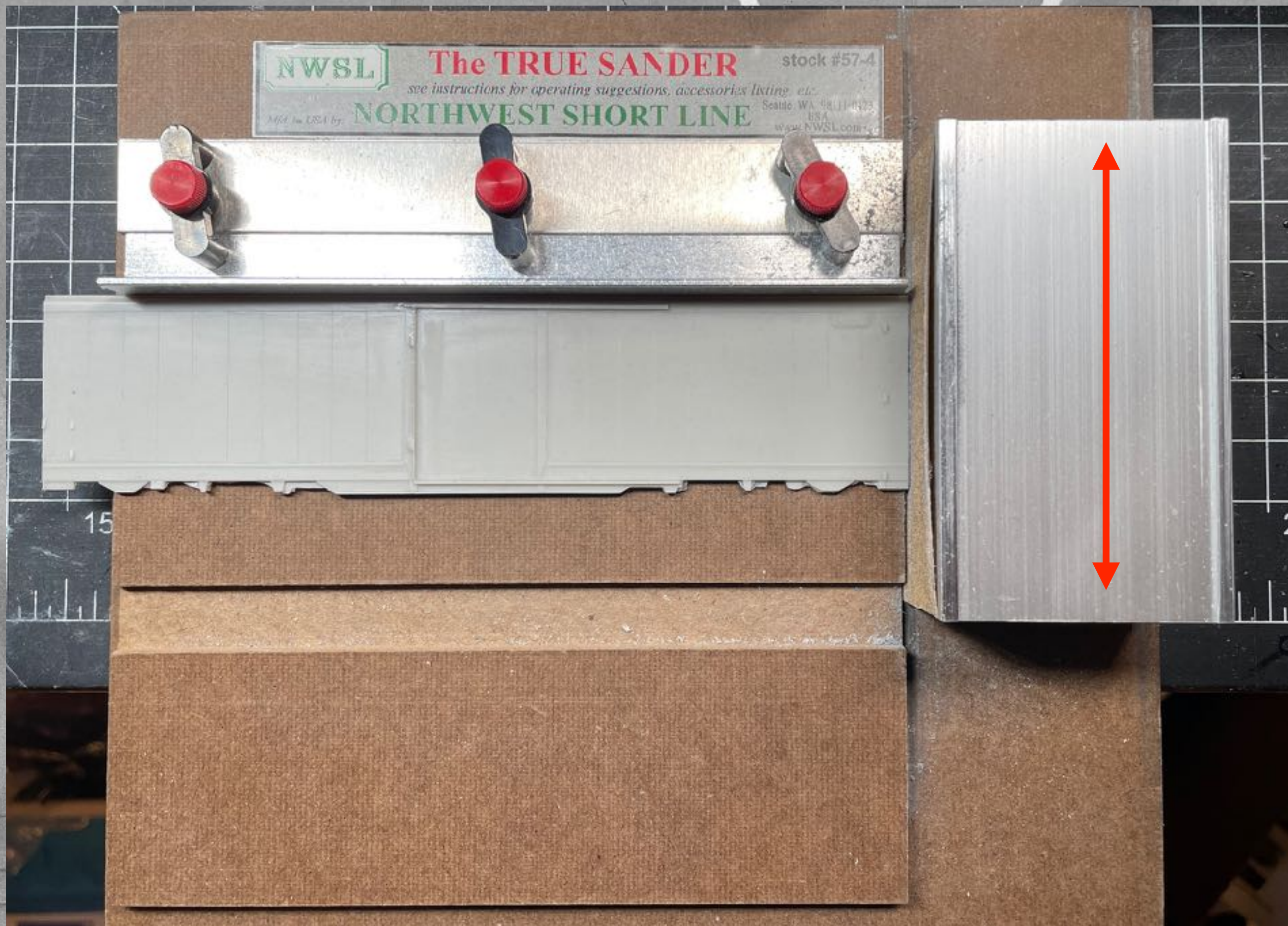
862

RED

Sunshine Models X41B: Building "the box"



Sunshine Models X41B: Building "the box"

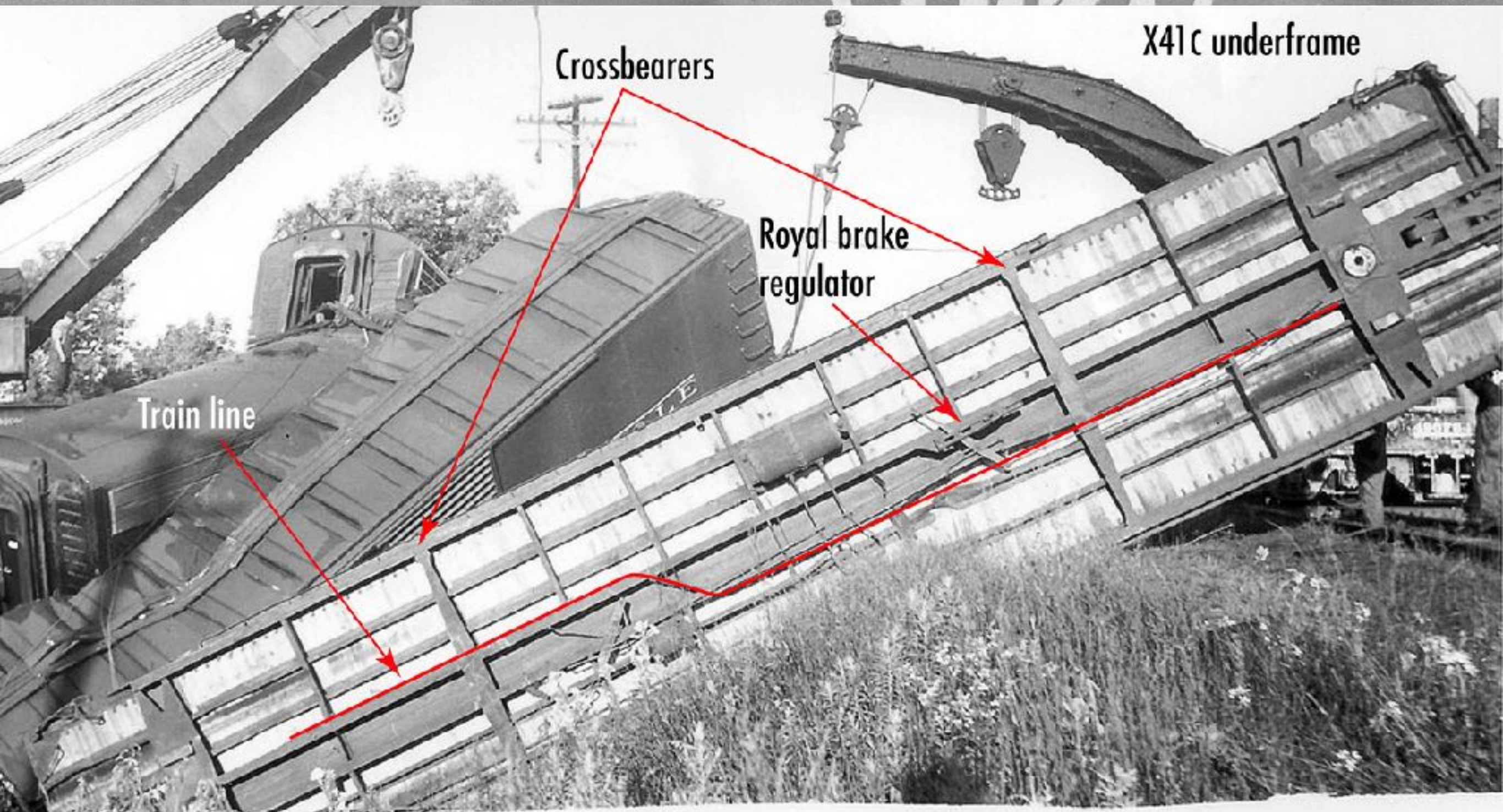


Sunshine Models X41B: Building "the box"



EX. W. 10-5 H. 15-0 E. W. 8-11 H. 14-0
LL. 50-6 LW. 9-2 LH. 10-6 CU. FT. 4862
BLT. 11 51 X45

The underframe X41C



Sunshine Models X41B: the underframe



Sunshine Models X41B: the underframe



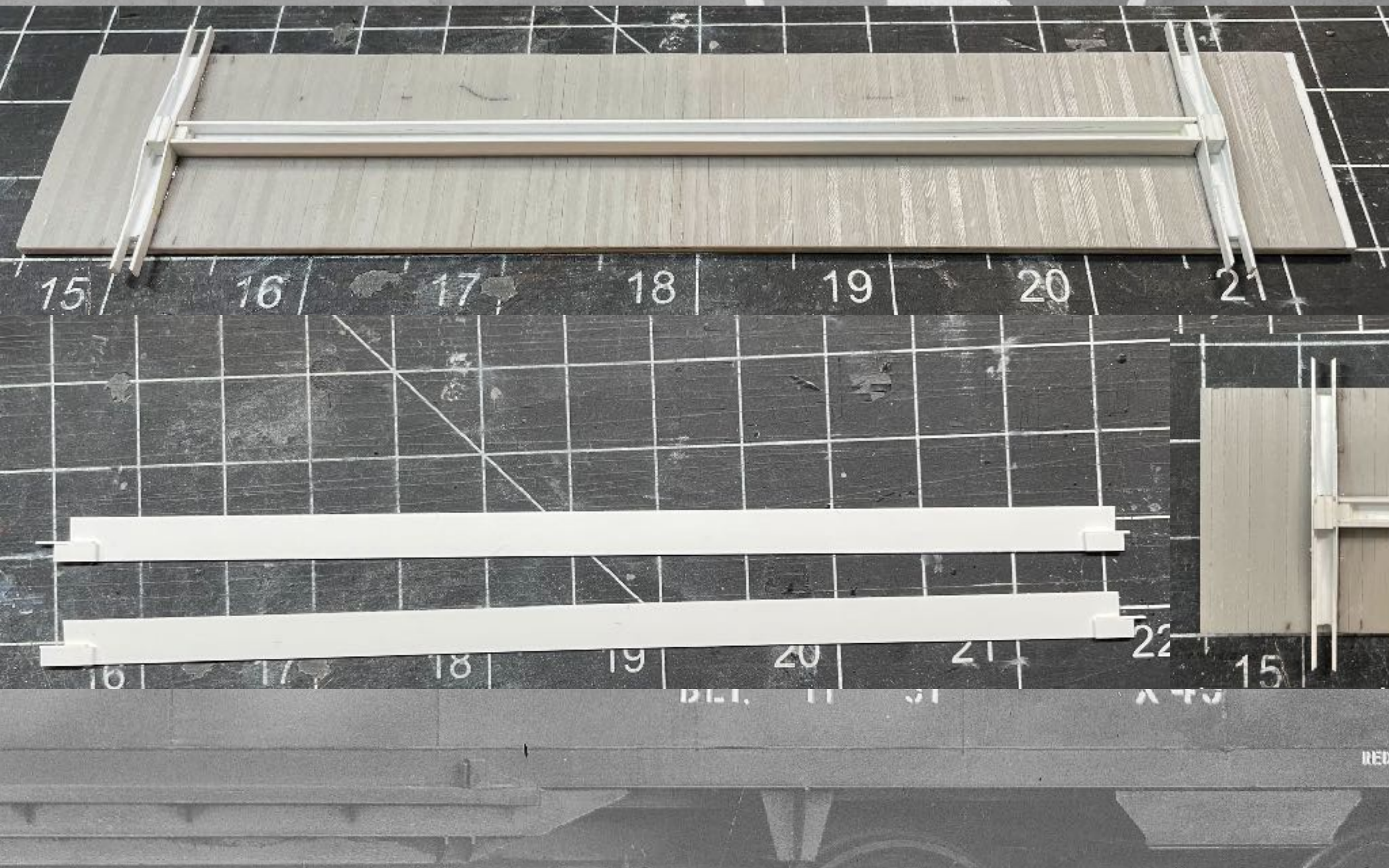
LL 50-6 LW 9-2 LH 10-6 CU. FT. 4862

BLT. 11 51

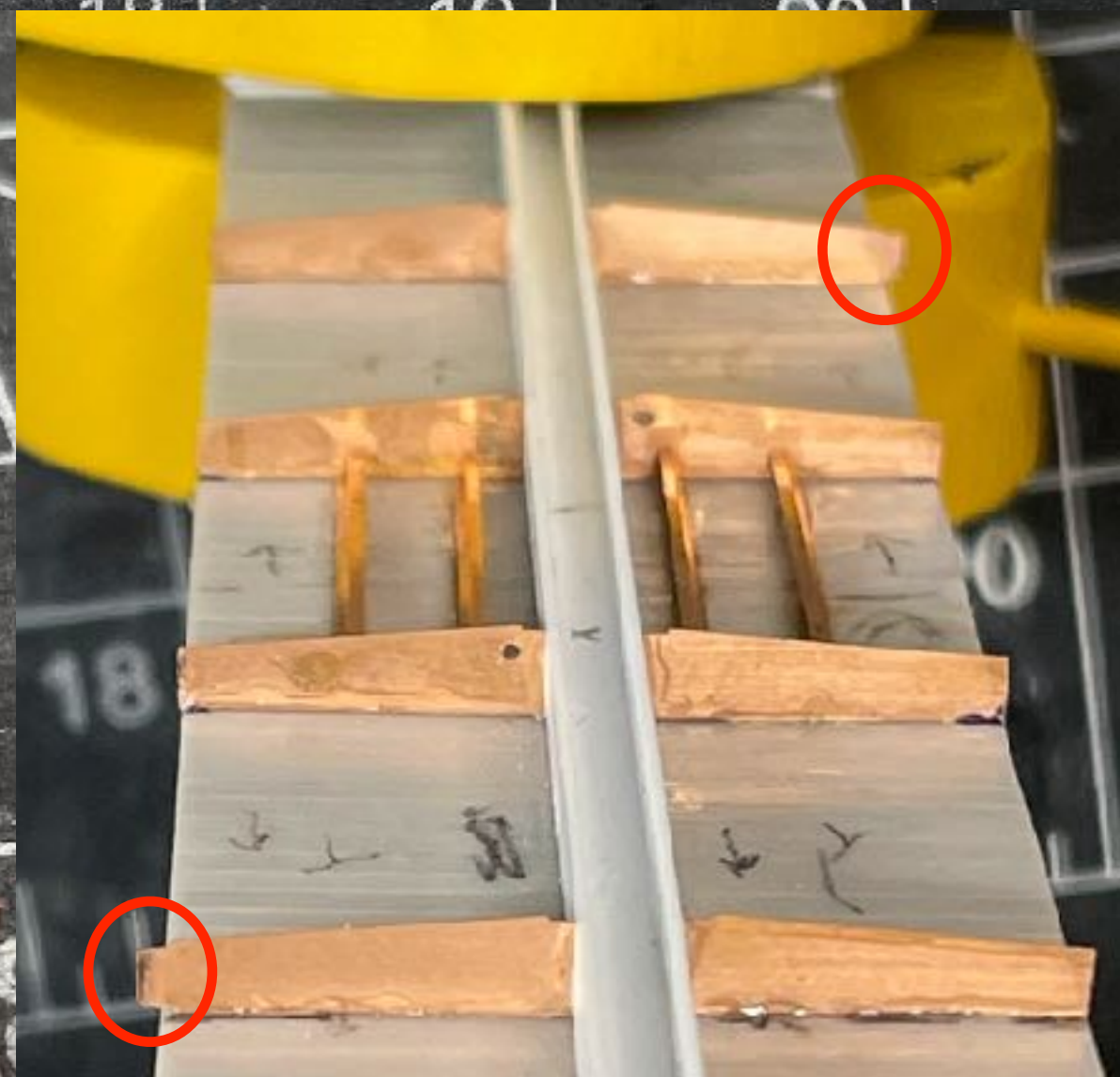
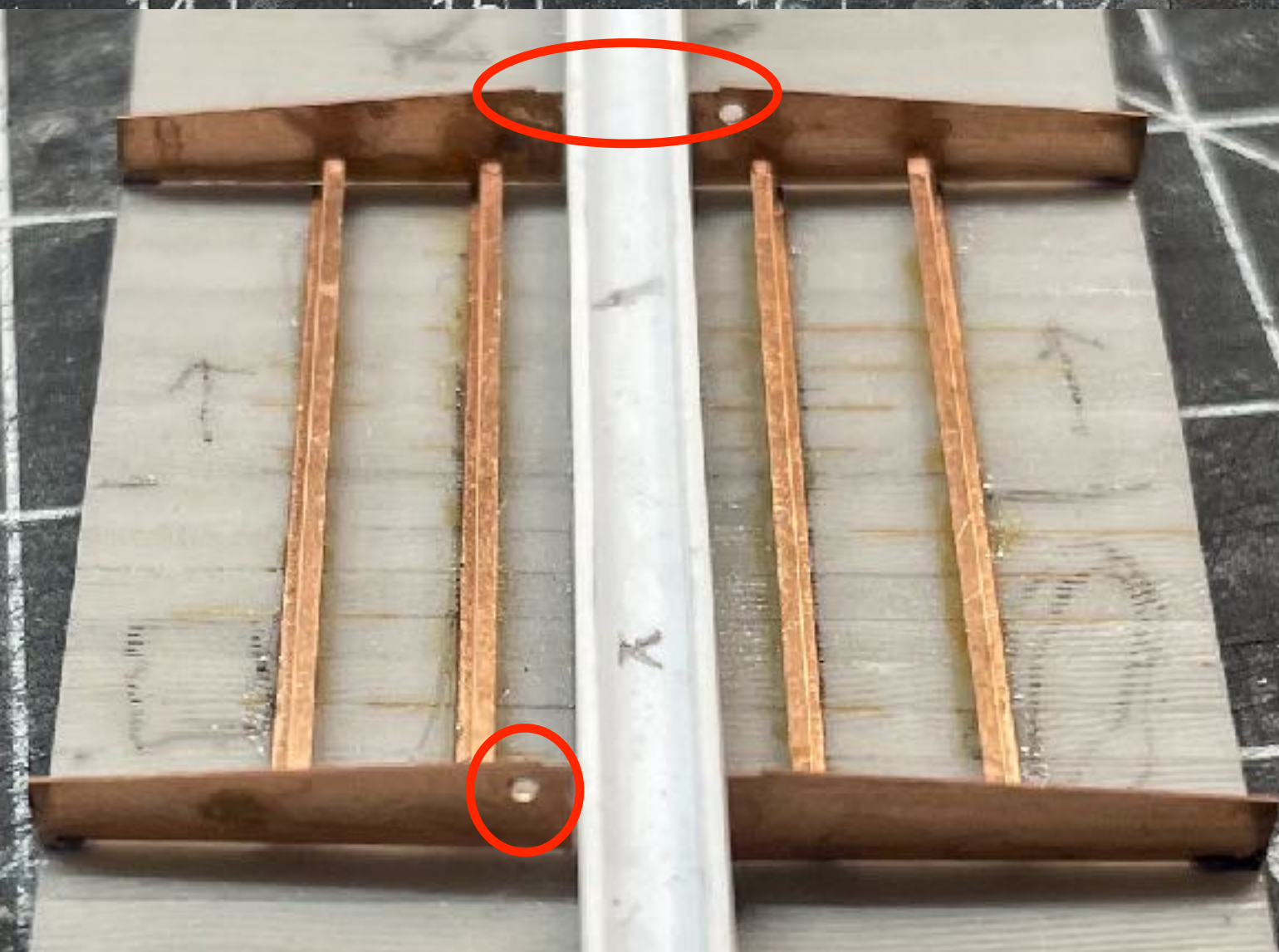
X45

RED

Sunshine Models X41B: the underframe

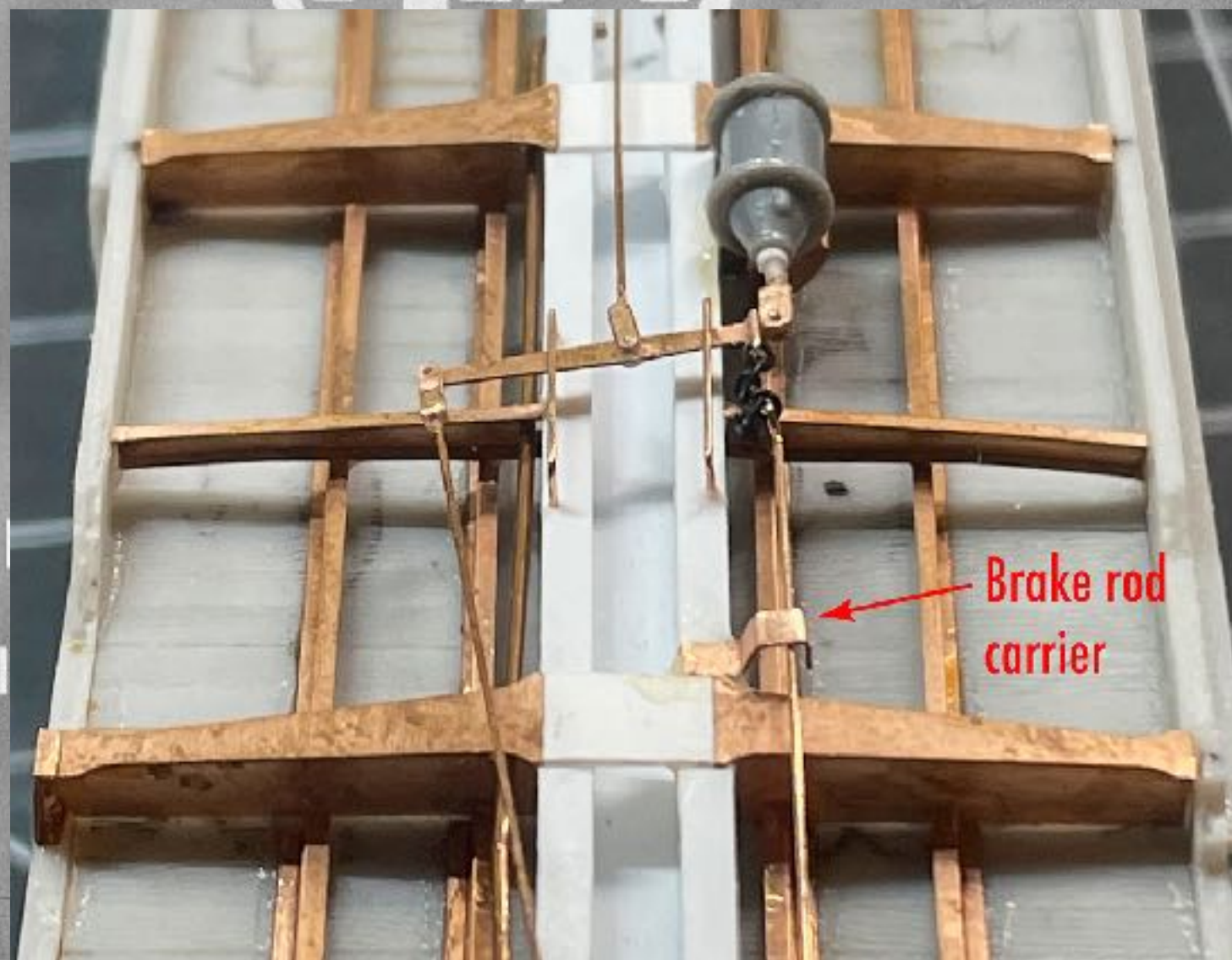
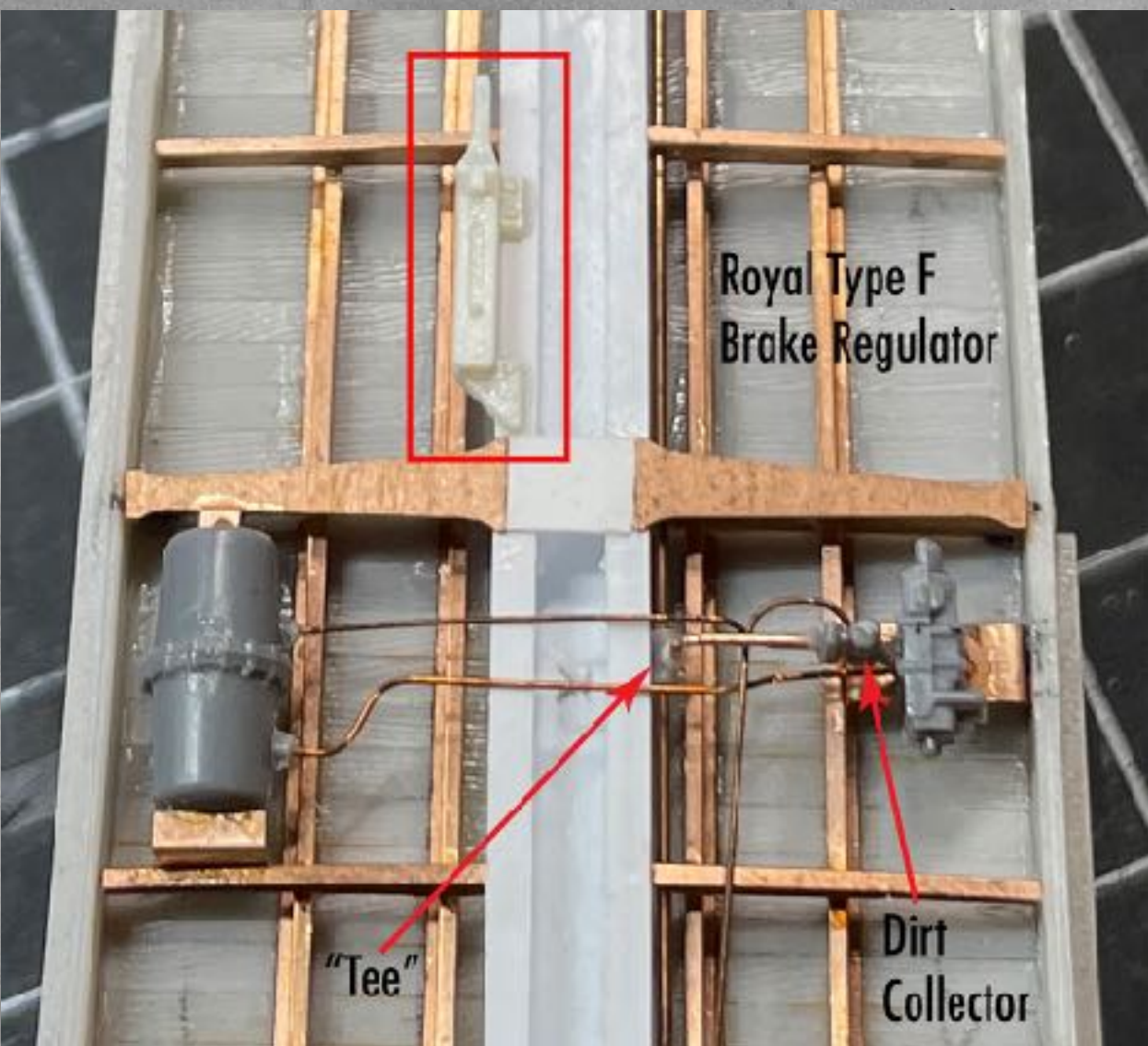
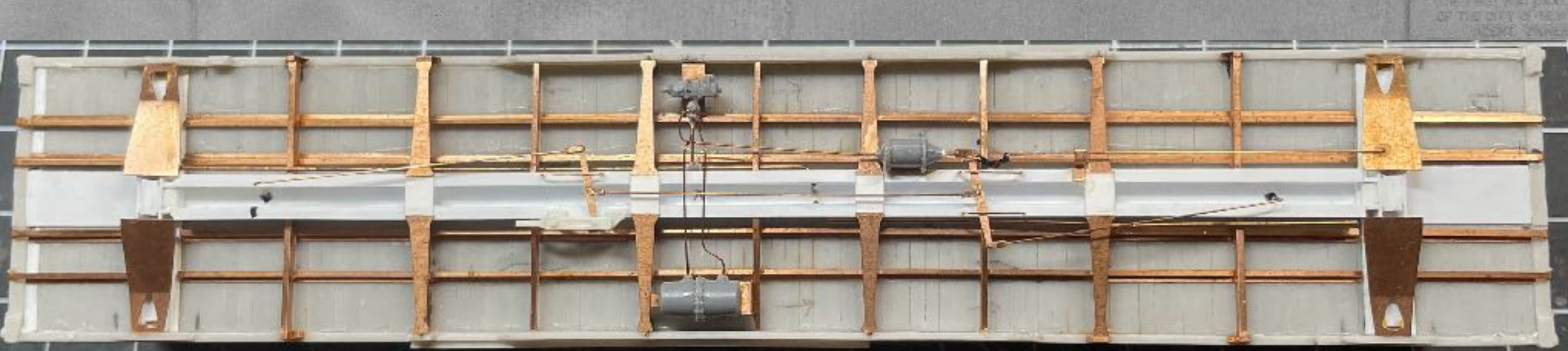


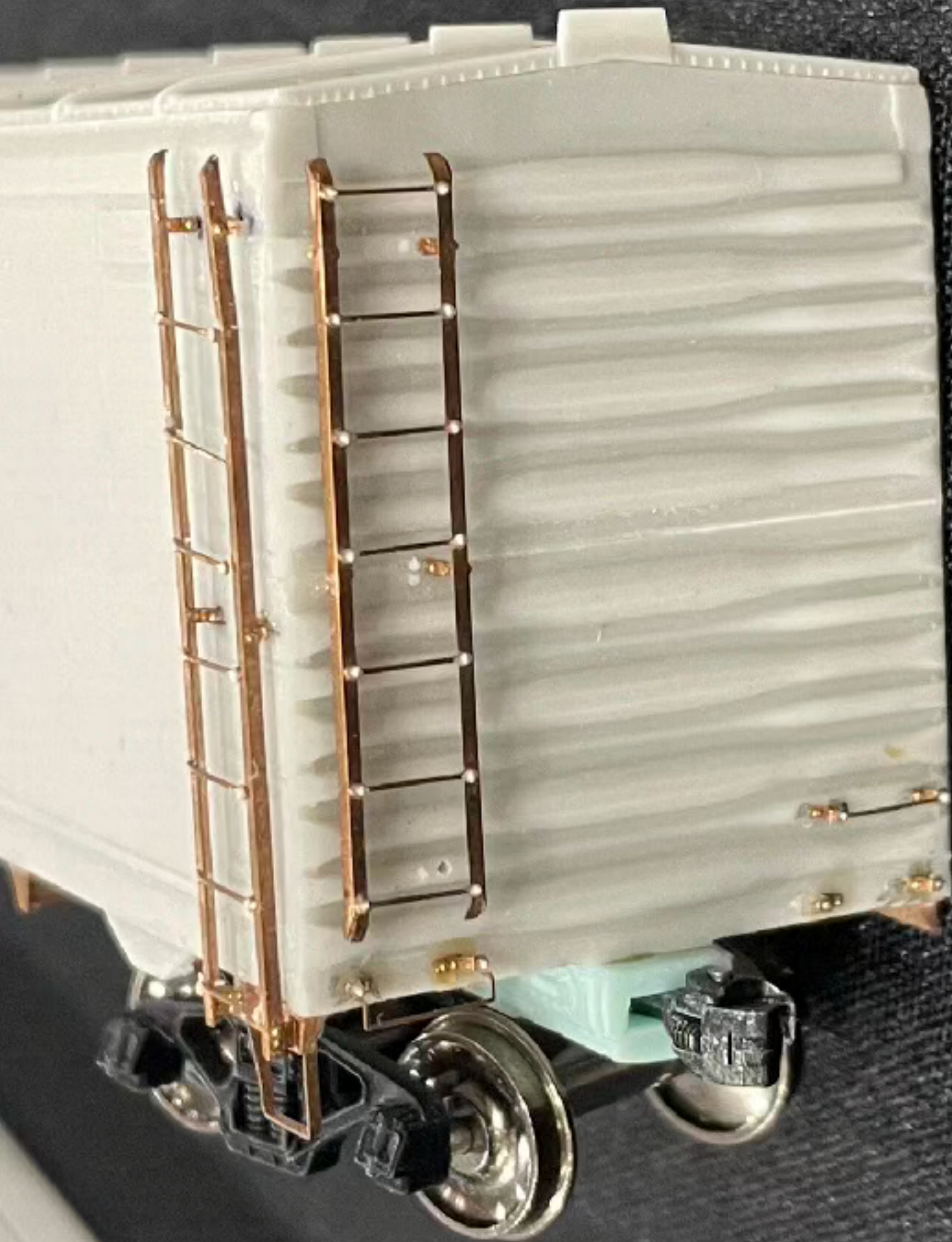
Sunshine Models X41B: the underframe



Sunshine Models X41B: the underframe







Sunshine
Models
X41B

5 H.13-0 E.W. 8-11 H.14-6
E.W. 9-21 H. 10-6 CU. FT. 4862
11 51 X45

RED

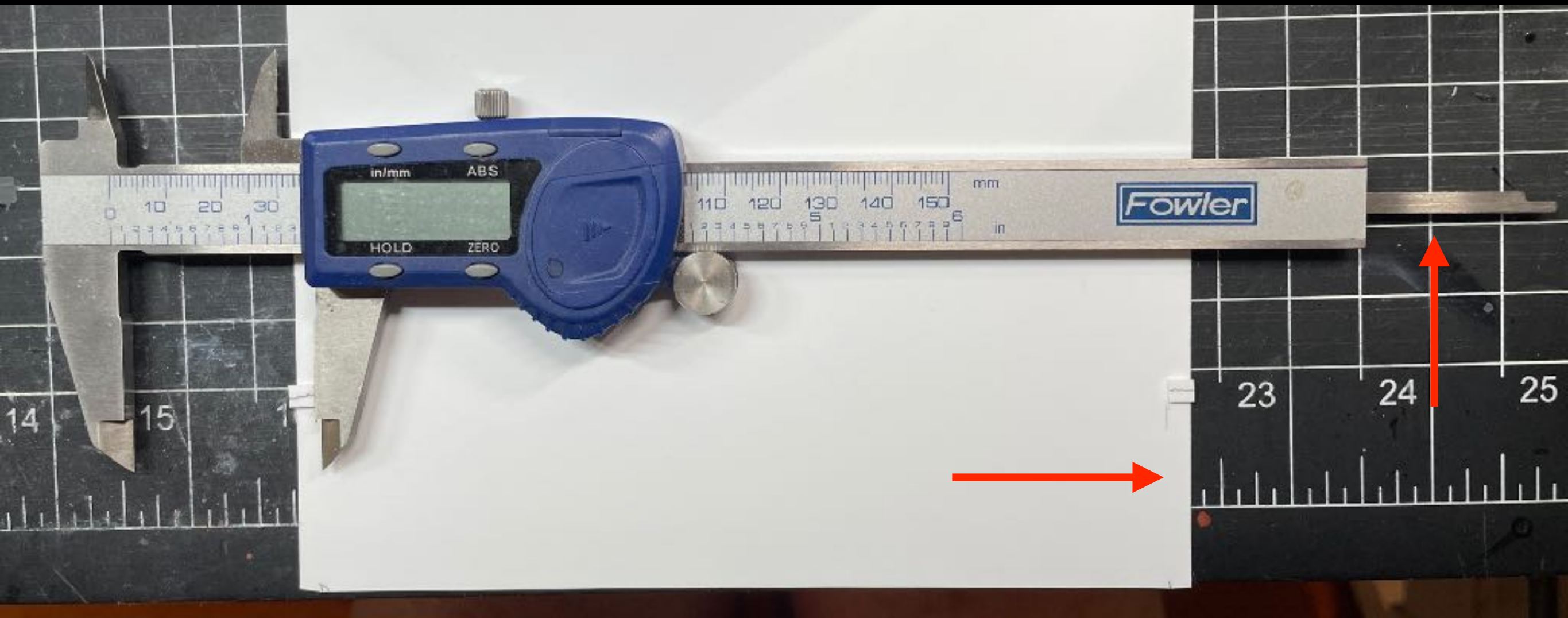
Welded Car Sides



- Welded car sides frequently exhibit wrinkled side panels
- It's an extremely subtle effect, but convincing when well-executed

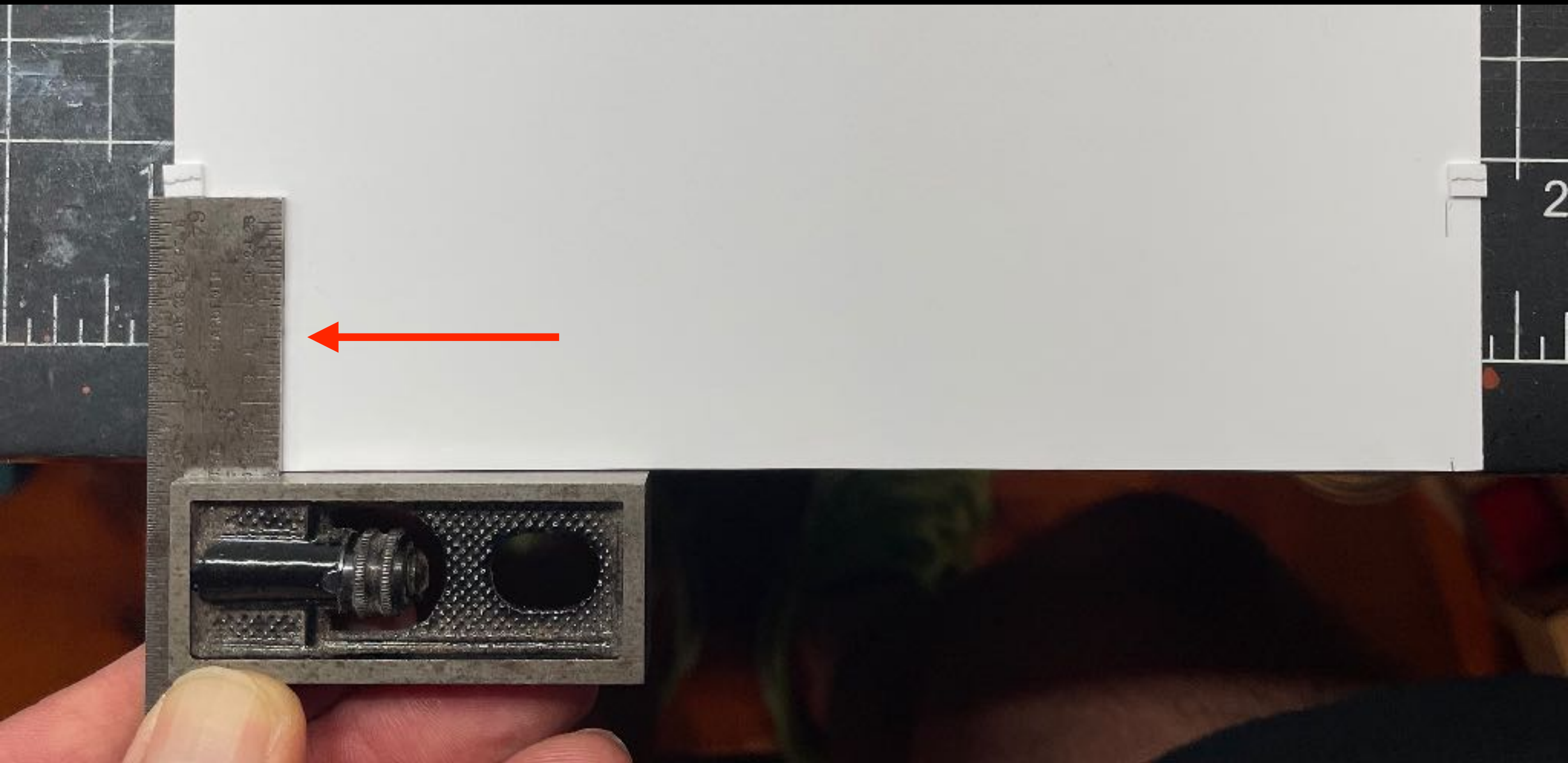
Sept 18, 1955, Brooklyn, NY

Welded Car Sides



- Making a side with consistent height across its length

Welded Car Sides



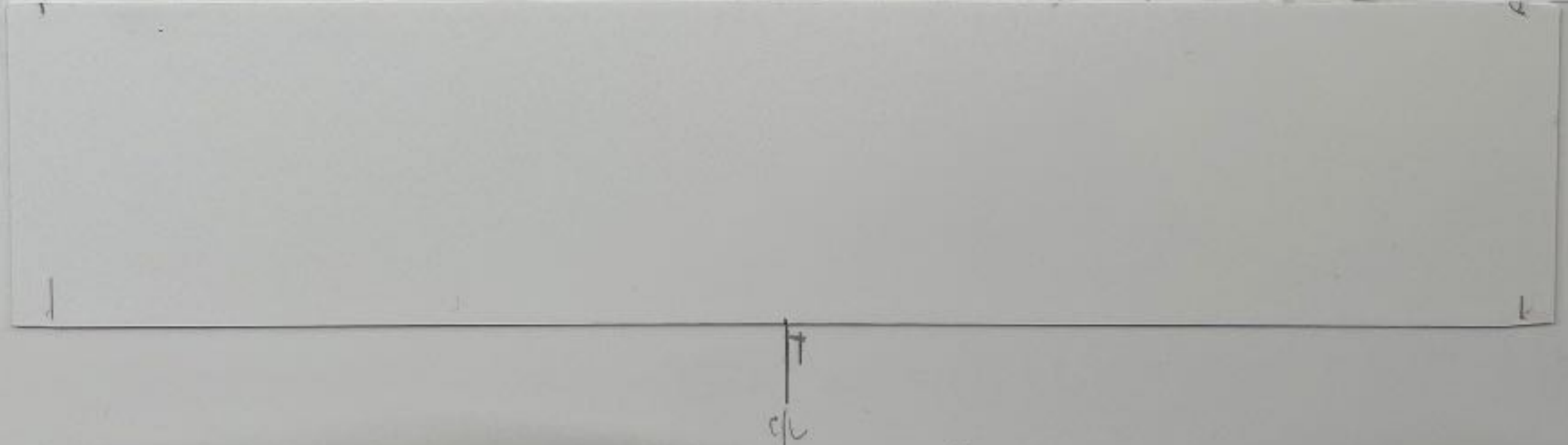
- Transfer the dim to the sheet and glue strips to be used as “stops”

Welded Car Sides



- Cut along the steel edge
- The length is adjusted on the cast parts and is not a concern at this moment

Welded Car Sides



- Glue to styrene “plate” (top)
- Mark panel line locations (bottom)

12-panel

Welded Car Sides



- Add ACC “bulges” (top)
- “Knock down” the peaks using sandpaper (bottom)

Welded Car Sides



- Add top sheet (0.010") secured with styrene-compatible contact cement
- Finish with panel lines, details, etc. (not shown)

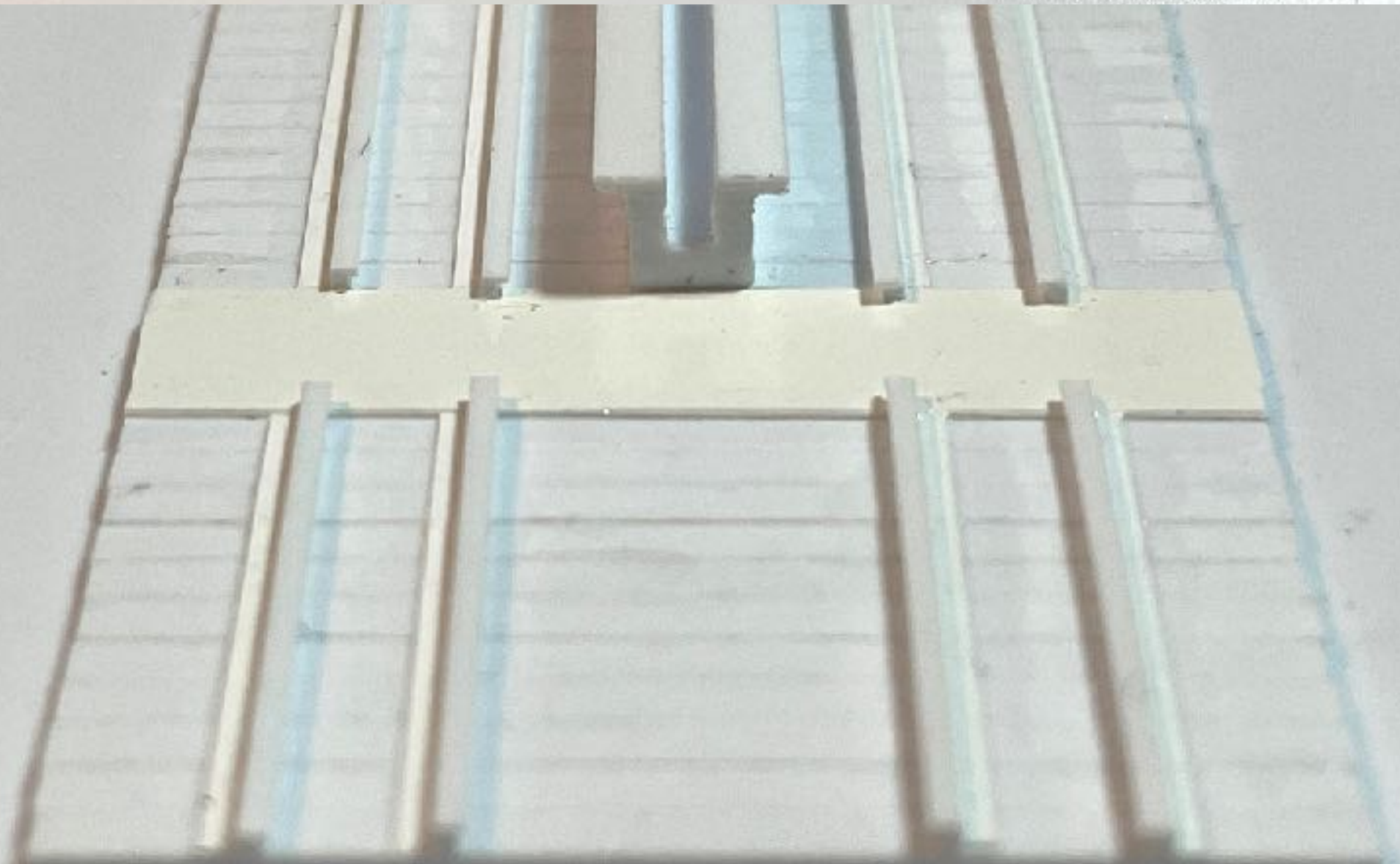
X43A pattern: the underframe



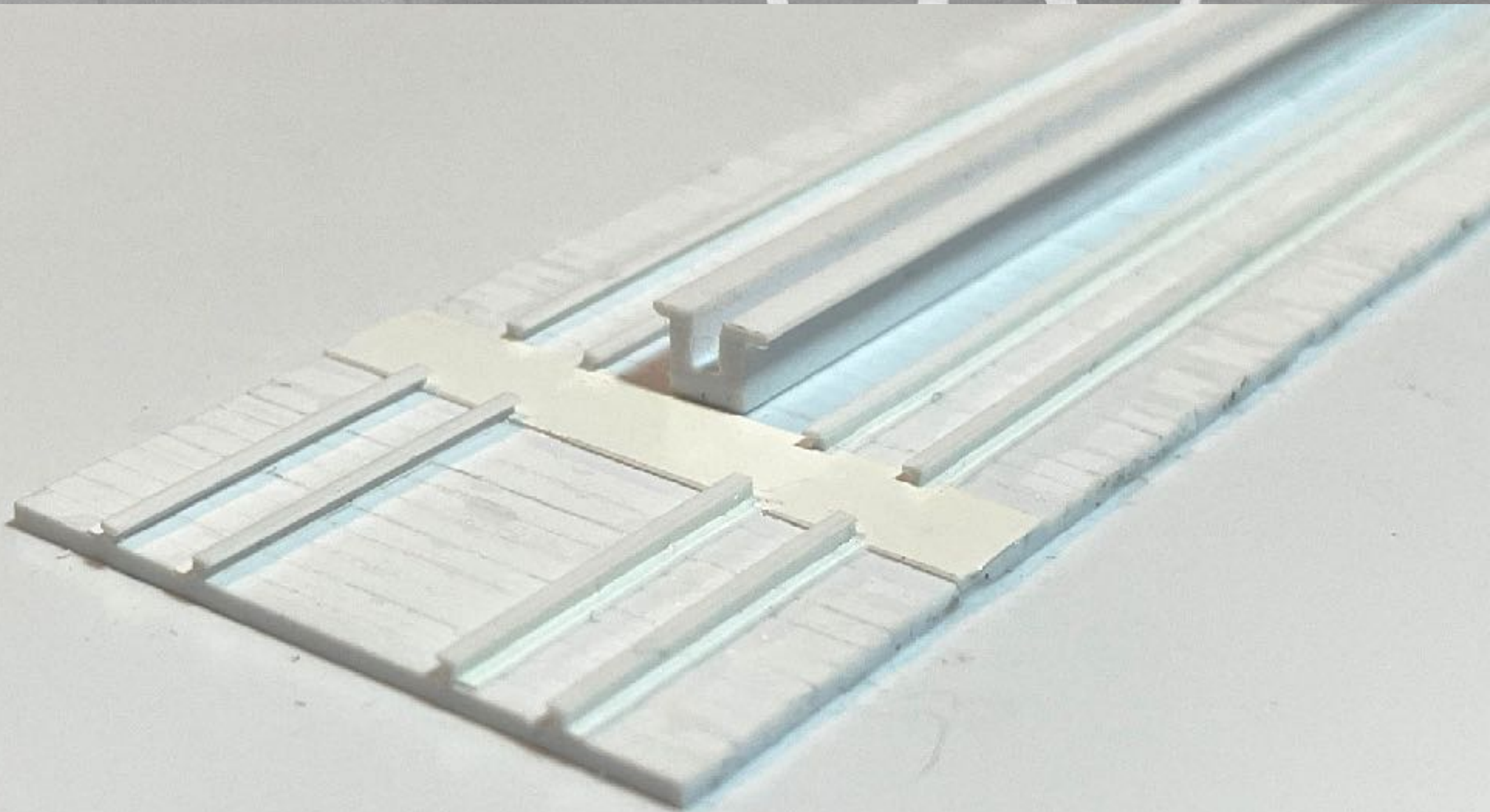
X43A pattern: the underframe



X43A pattern: the underframe



X43A pattern: the underframe



X43A pattern: the underframe



X43A
model

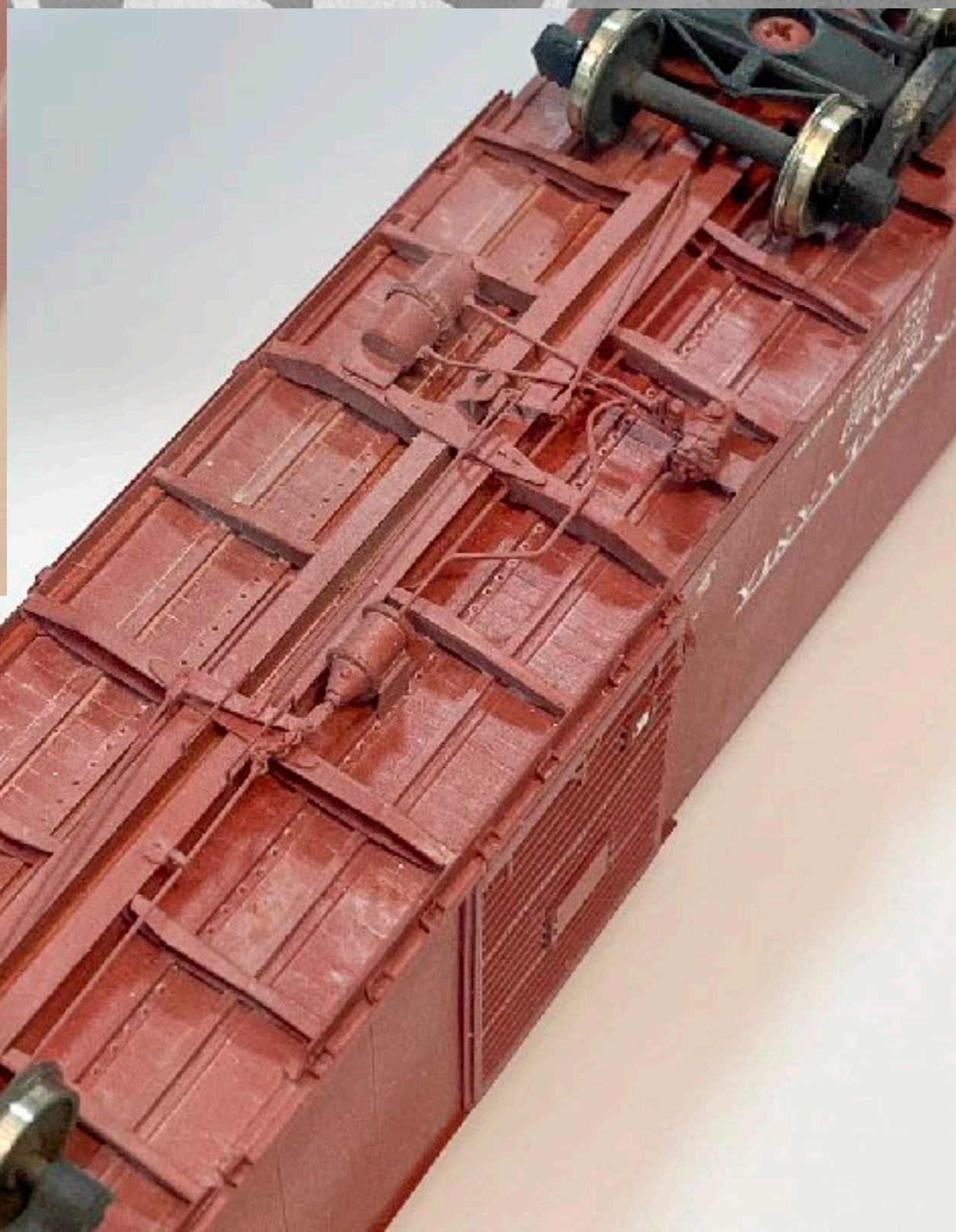


8-11 H. 14-6
CU. FT. 4862
X45

X43A model



X43A model



X43A model



Thank you

Joe Acri

Barbara Hall

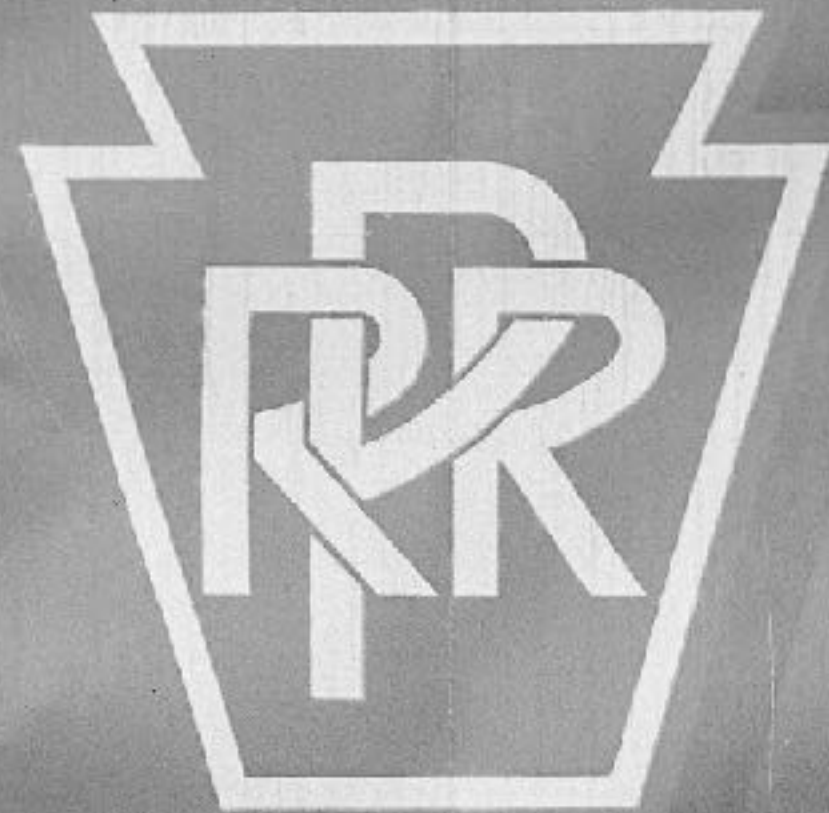
Jim Homoki

Aaron McWilliams

Gerry Schaefer

Adam Chilcote

PRR Railfan site



This file along with updates to the X41B project
will be posted to prototopics.blogspot.com

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IL.50-6 LW. 9-2LH. 10-6 CU. FT. 4862

BLT. 11 51

X45

RED