

# Missouri Pacific 1942 ACF Boxcar Build

Prototype history



MO. PAC. 5-42 ST. L.  
A. C. & F. CO. LOT 2419  
NEG. 180334-A-2

An ACF builder photo for the MP depicts the car type chosen for the kit. See the next slide for a summary of the ACF and Pullman builds for the MP and its subsidiaries during the early 1940s. If you look closely at the silhouette of the brake components under the car, you should see the “unique” attachment of the brake rod to the brake cylinder.

The Missouri Pacific had American Car & Foundry Co. build new steel box cars to common standards from 1942 through 1946. They were 40'-6", 10'-6" inside height, A.A.R. 50-ton box cars. The cars had 5-5 Dreadnaught Ends, Murphy panel roofs, 10-panel riveted sides, and 6' door openings with Youngstown Steel Doors and Union Duplex door fixtures.

MoPac box cars of this type were also built for M.P., I-GN, and StLB&M by ACF and Pullman-Standard from 1942 to 1946 as follows.

M.P. 32500-33299, 800 cars, built 3-42, ACF lot 2341

M.P. 34300-34599, 300 cars, built 9-45, ACF lot 2761

I-GN 17850-17999, 150 cars, built 10-45, ACF lot 2761

StLB&M 18000-18249, 250 cars, built 10-45, ACF lot 2761

StLB&M 18250-18449, 200 cars, built 3-46, Pullman lot 5823

I-GN 18800-18999, 200 cars, built 2-46, Pullman lot 5823

Still others had the same features **except with longer side sills that extended from bolster to bolster.**

StLB&M 17501-17600, 100 cars, built 5-42, ACF lot 2419

I-GN 17751-17825, 75 cars, built 4-42, ACF lot 2420

M.P. 34113-34262, 150 cars, built 5-42, ACF lot 2419

M.P. 34263-34287, 25 cars, built 4-42, ACF 2420

The MoPac general arrangement drawings for these 10'-6" AAR box cars built from 1942 to 1946 show side and end ladders 18" wide, measured from the center lines of the bolts fastening the rungs/hand holds to the ladder stiles. The rung spacing is 16" except for the bottom two end ladder rungs that were 15 1/8" apart.

The ladder stiles are 1 3/4" x 1 3/4" x 3/16" angles. So the actual width is 19 3/4".

The top 6 rungs of the side and end ladders were lined up at the same height.

**Specifically, the kit model we have is for those cars above with the longer side sills. (ACF lots 2419 and 2420 only.)**



I. G. N. 4-42 ST. L.  
A. C. & F. CO. LOT 2420  
NEG. NO. 180330-13

Another of the ACF builder photos shows one of the subsidiary roads, the Illinois – Great Northern, with a nice view of the B end. Note that the prototype cars have 8-rung ladders, whereas the kit provided ladders are only 7-rung. Also, note the placement and shape of the sill step.



G. C. L. 5-42 ST. L.  
A. C. & F. CO. LOT 2419  
NEG. NO. 180333-A-2

Another builder photo gives an example of the other subsidiary to get these particular cars. Saint Louis, Brownsville and Mexico 17600 was the last of the allocated 100 cars to this subsidiary. Again, the car sports the bolster-to-bolster side sill unique to the cars upon which the kit is based.

## Chart of Cars in Service

ORER Date	MP 34113-34287	I-GN 17751-17855	StLB&M 17501-17600
Built 1942	175	75	100
Oct 1946	174/1 <sup>1</sup>	74	100
Oct 1950	174/1 <sup>1</sup>	74	100
Oct 1955	170/4 <sup>2</sup>	74	100
July 1961	170/3 <sup>3</sup>	70*	97*
July 1965 $\pi$	117	47*	61*
Oct 1969 $\pi$	27	6*	9*

<sup>1</sup> 175 total cars in service. One car – 34247 – has been equipped with racks to haul motors and designated XAP

<sup>2</sup> 174 total cars in service. Four cars – 34124, 34135, 34144, 34210 – have been equipped with racks to haul motors and designated XAP

<sup>3</sup> 173 total cars in service. Three cars – 34144, 34210, 34279 – have been equipped with racks to haul motors and designated XAP

\* Beginning in 1956, all subsidiary roads were subsumed into the Missouri Pacific numbering system. Thus, the I-GN and StLB&M cars were lettered for MP. They did retain their original numbers.

$\pi$  Beginning in the mid-1960s, the MP began to rebuild some of these cars and place them into the 123539-123605 series. As of July 1965 ORER, there were 18 such cars, and per the October 1969 ORER, there were 44 such cars.