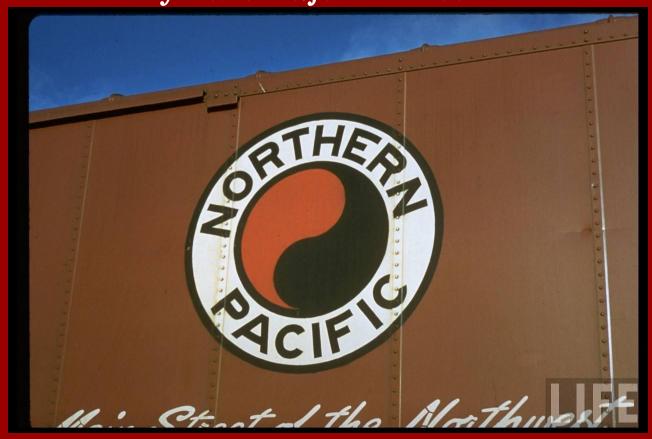
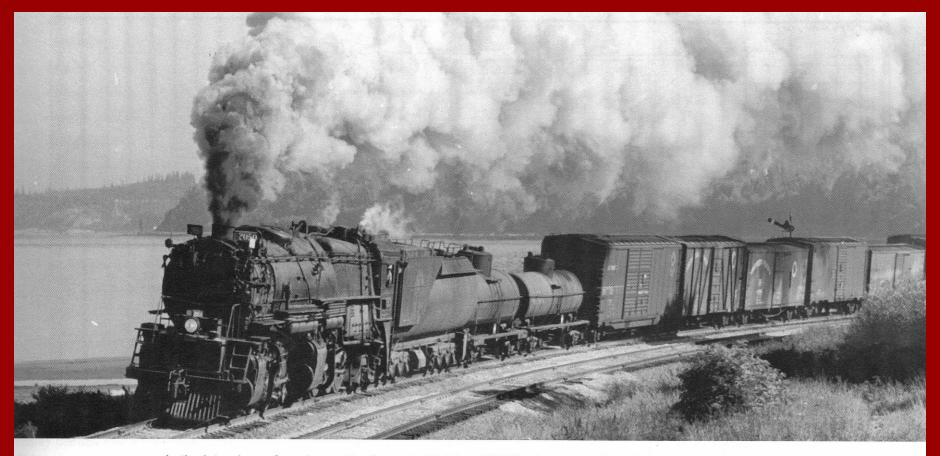
Northern Pacific 40' Steam Era Box Cars. 1912-1953 By Aaron Gjermundson



Hindsight 20/20 Virtual RPM 5:45 Eastern Start Time

"Every train contains at least one NP box car."
-Mike Brock



In the later days of service on the Cascade Division, 2050 is shown westbound along Puget Sound on July 8, 1949. James A. Turner photograph from the Warren Wing collection, courtesy of Walter Ainsworth.

Steam Locomotives of the GN Railway, page 239 Kenneth R. Middleton & Norman F Priebe



Bob's Photo, 1953.



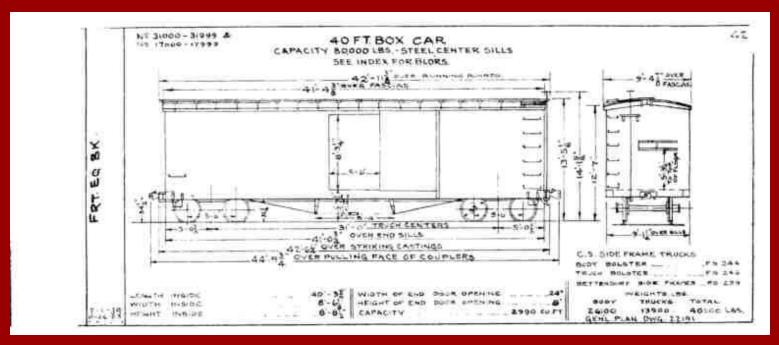
LBC1595 NYC 7107 About to enter the CPR at Hurdman, Ontario.

Double sheathed

- Truss rod, steel center sill
- 8' interior height
- 8'8" interior height
- Half still in revenue service in 1940.
 - All gone by early 50's
- Many used in MOW service.
- Many used as storage by elevators and on farms.

Early 40' Single Door Box Cars

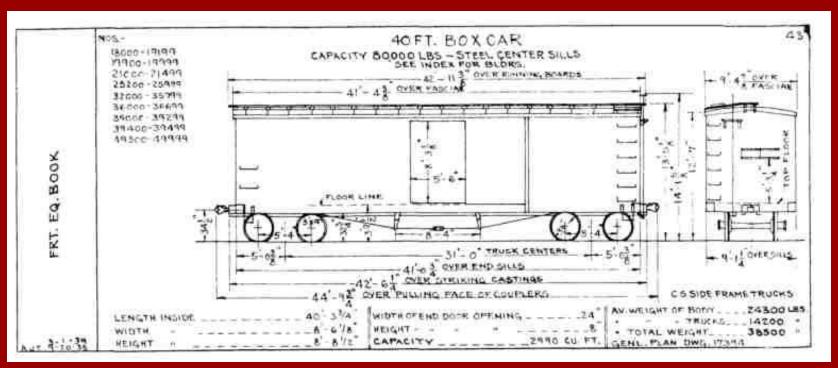
Double sheathed truss rod, steel center sill 8' interior Height



- Built by NPRY in 1916-1917
 - In pictures, queen posts mounted vertically.

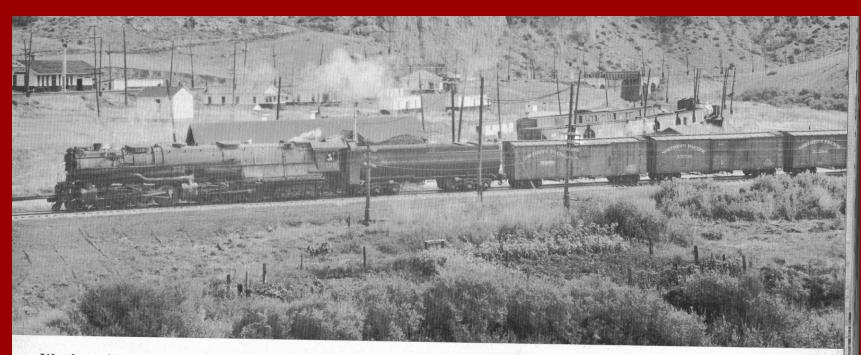
Early 40' Single Door Box Cars

Double sheathed truss rod, steel center sill 8'8" interior Height



- Built beginning in 1918.
 - Queen posts mounted at slight angle.

Early 40' Single Door Box Cars 8' and 8' 8" interior height



West bound Extra 5120 at the NP-Milwaukee Road interchange point in front of the NP's Lombard, Montana depot on 9-3-41. The GE Motors and the depot in the background, as well as the bridge over the Missouri River from which this photo was taken, belong to the Milwaukee Road. There have been no buildings of any kind here since 1968. W.R. McGee

Early 40' Single Door Box Cars 8' interior height Models



Funaro and Camerlengo kit 1007

Early 40' Single Door Box Cars

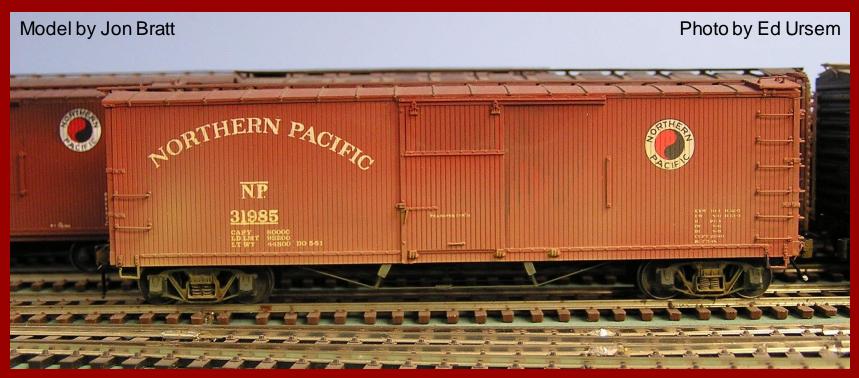
8' 8" interior height Models



Funaro and Camerlengo kit 1008

Early 40' Single Door Box Cars

8' 8" interior height Models



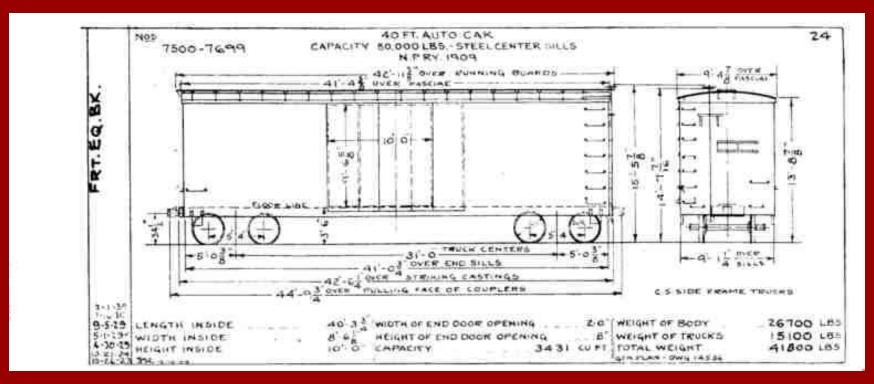
Funaro and Camerlengo kit 1008

Automobile box cars

- Double sheathed
 - Truss rod, steel center sill

- Single sheathed
 - Steel under frame

Double sheathed truss rod, steel center sill



- Three groups of cars built 1909, 1912, 1918
 - 10' interior height
 - 10' doors

Double sheathed truss rod, steel center sill

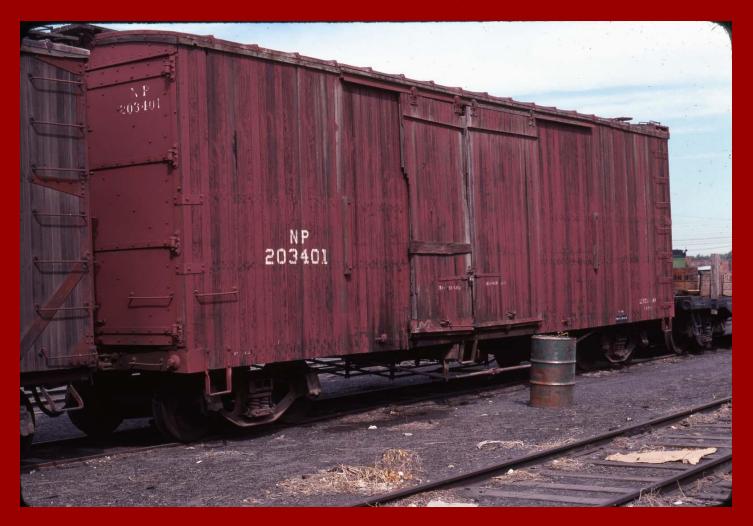


Double sheathed truss rod, steel center sill



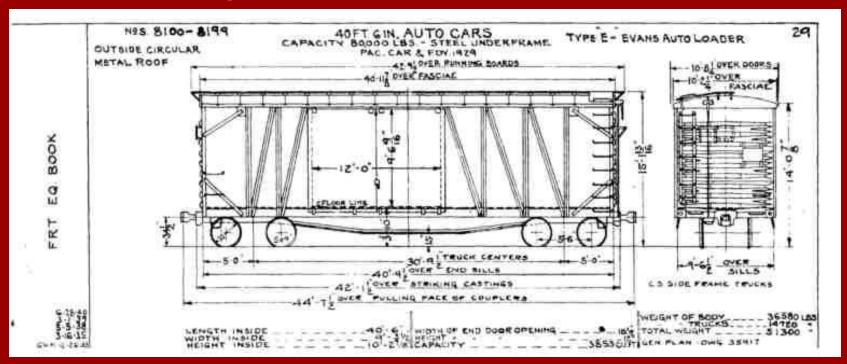
26 cars on roster in 1950.

Double sheathed truss rod, steel center sill



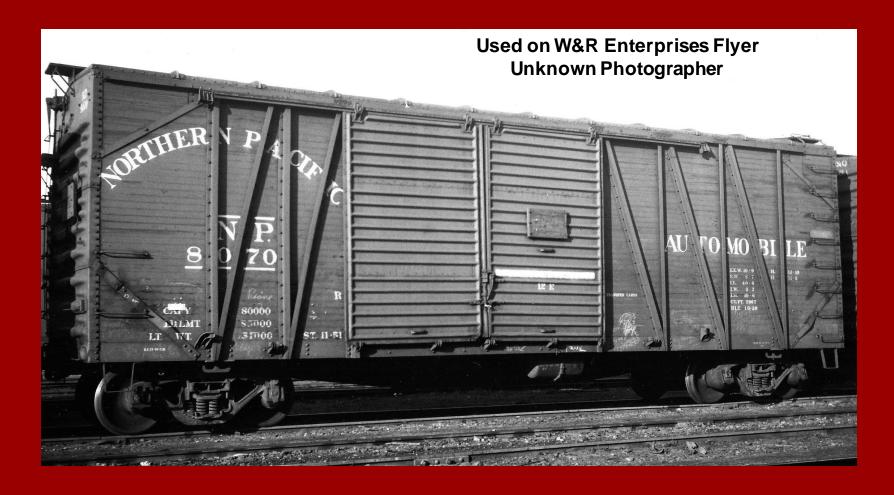
Rick Leach photo, Pasco, Wa 1977

Single sheathed, steel under frame



- Built 1929
 - 10' 2" interior height
 - 12' doors
 - Radial Roof. Some cars rebuilt in 1940 with Murphy SQ panel roofs. Renumbered 8100-8199.

Single sheathed, steel under frame





W&R Enterprises Brass Model

Single sheathed, steel under frame



• Rebuilt in the late 1950's

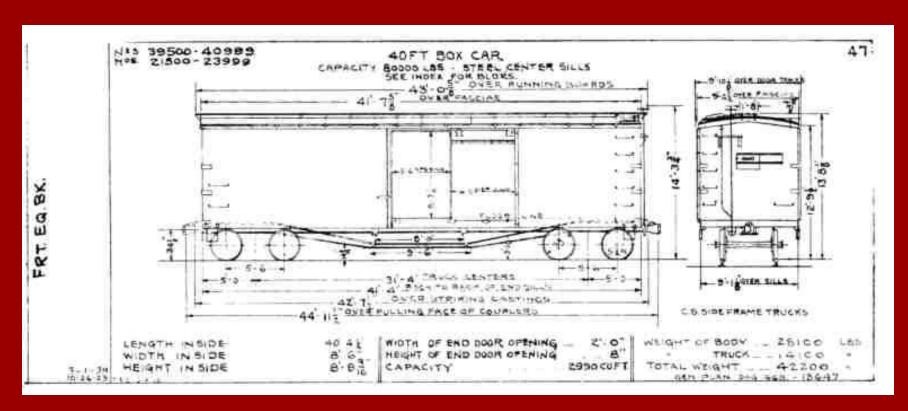
Double sheathed

- Truss rod, fish belly under frame
 - Single truss on each side of under frame.
- Drawing show many received AB brakes.

• 8'8" interior height

• Lasted in revenue service into the 1950's.

Truss rod, fish belly under frame



- Built 1913
- Series 21500-23999, 39500-40999, 4000 cars.
- 1017 still in service as late as 1953.

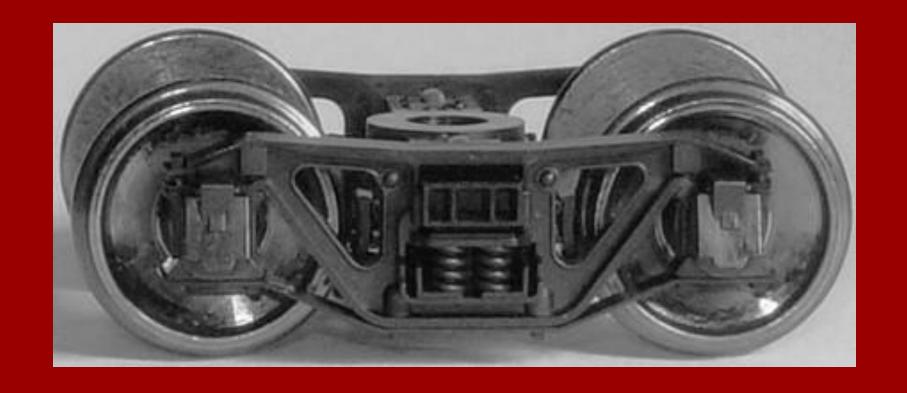
Truss rod, fish belly under frame



- Notice the Andrews style trucks.
- Yarmouth Model Works resin kit

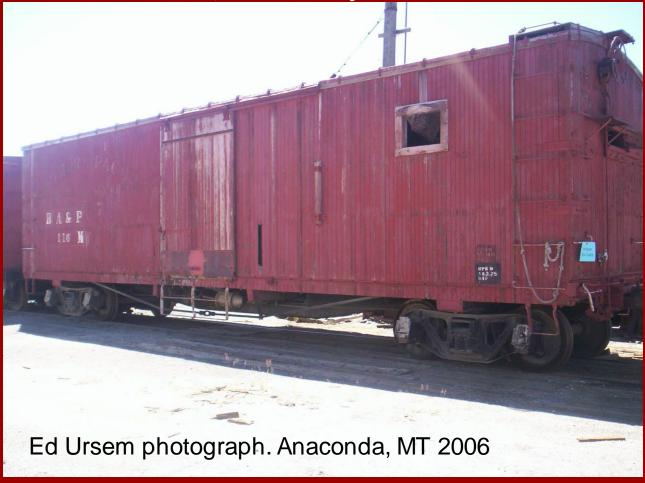
Truss rod, fish belly under frame





Tahoe makes an excellent NP style Andrews truck.

Truss rod, fish belly under frame



• Many saw MOW service.

Truss rod, fish belly under frame

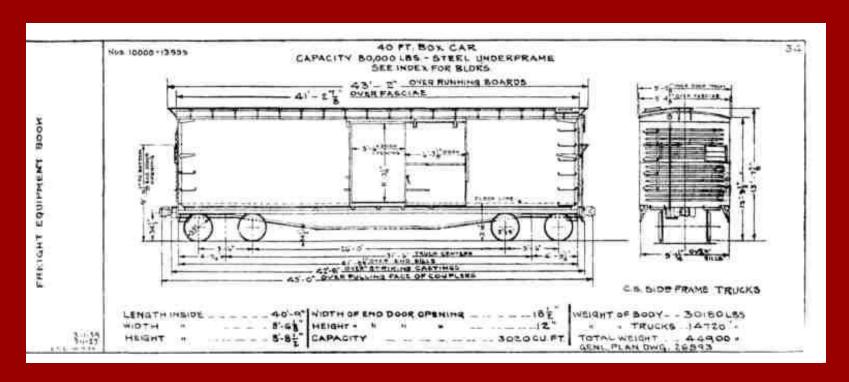


• Yarmouth resin kit.

- Modern wooden designs
- Single or Double sheathed
 - All steel under frame
 - Steel ends
- At first glance, similar to USRA designs.

Cars lasting to the merger in revenue service.

10000 series



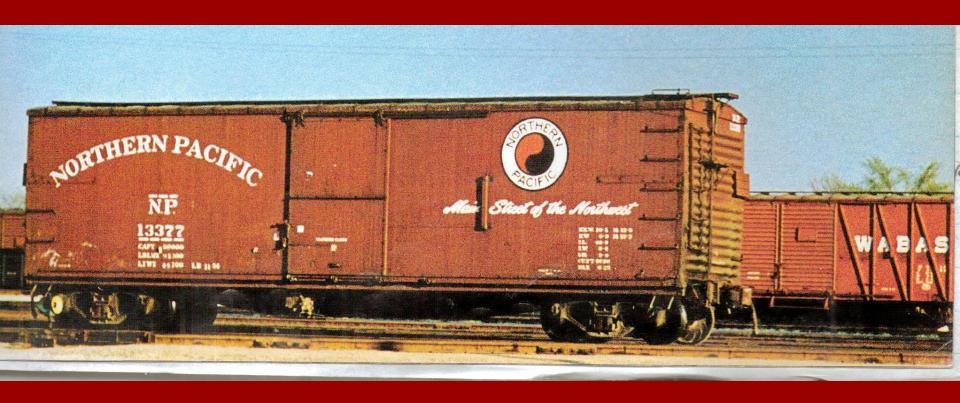
- Built 1923-25.
- 4000 cars built.
- Backbone of box car fleet until WWII.
- 341 survived into 1966.

10000 series



- · Miner Ideal hand brake.
- Built with cast side frame trucks.
 - Barber Lateral Motion truck.

10000 series



In 1952, some cars started to receive a metal strap at the corners.

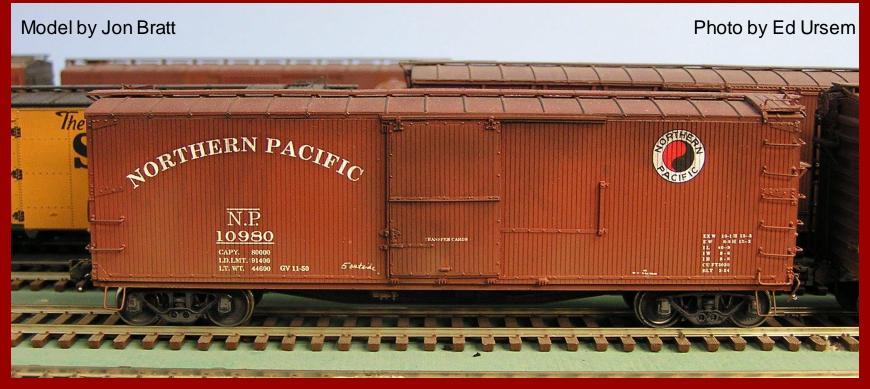
Modeling 10000 series



Sunshine Models 52.1-3

- Into the 1950's, this series of box car made up over 10% of the total NP freight car roster.
- Accounted for 22% of 40' box cars in 1953.

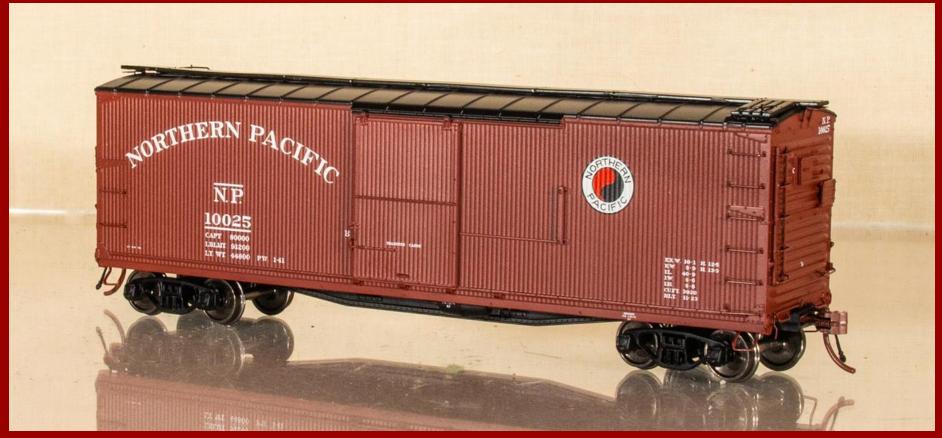
Modeling 10000 series



Sunshine Models 52.1-3

- An absolute must on any NP roster.
- One of the 45 Essential freight cars of the steam era, as discussed in Ted Cullota's, series of RMC articles.

Modeling 10000 series



- Rapido Trains RTR model
- One of the 45 Essential freight cars of the steam era, as discussed in Ted Cullota's, series of RMC articles.

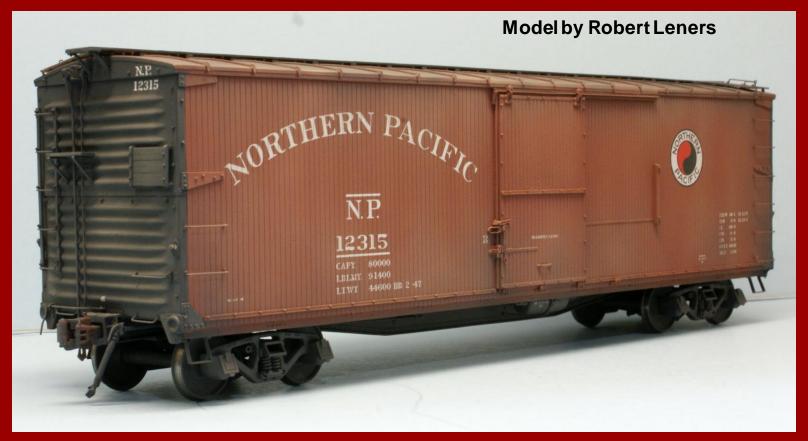
Modeling 10000 series



Proto:48

- Proto:48 model from Chooch Enterprises kit.
- Reworked to have metal straps.

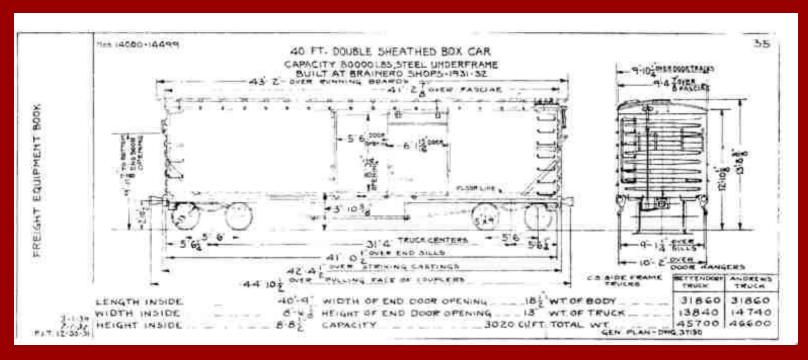
Modeling 10000 series



Proto:48

• Proto:48 model from Chooch Enterprises kit.

14000 series



- Built 1931-32 at Brainerd, MN.
- 500 cars built.
- Dreadnaught ends and NP Andrew truck.
- 94 survived into 1966.

14000 series



- Design is a step back in time.
- Built at same time as 1932 ARA all steel cars.
- NP Andrews truck

14000 series



- One more grab iron on side and end than 10000 series.
- · Has unusual triple lever brake arrangement.

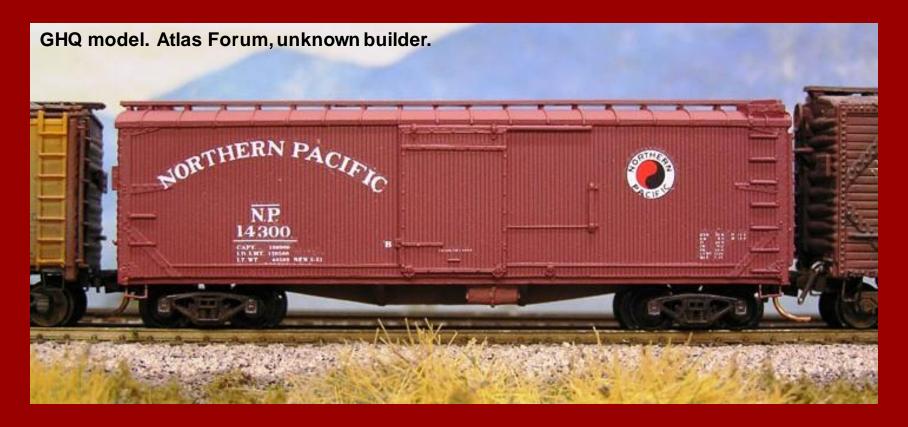
14000 series



· Survivor at RR museum in Mandan, ND

Modeling 14000 series

N scale



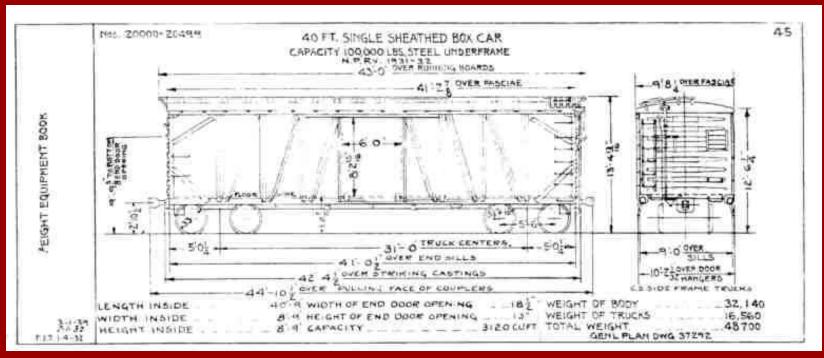
Modeling 14000 series HO scale



HO, Sunshine Models 52.4-6

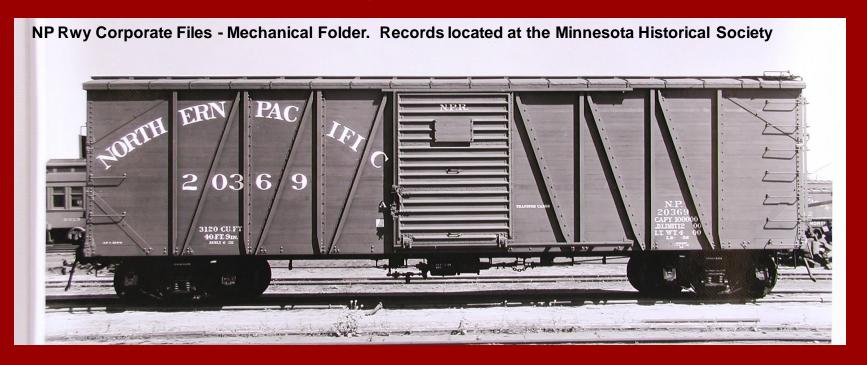
· Kit has eight grab irons.

14500-14999, 20000-204999 series



- Built 1931-32 at Brainerd, MN.
- 1000 cars built.
- Single sheathed design with Dreadnaught ends.
- -14500-14999, 40 ton cars.
- -20000-20499, 50 ton cars.

14500-14999, 20000-204999 series



- 14500-14999, Bettendorf T section trucks
- 20000-20499, NP Andrews truck

Modeling 14500-14999, 20000-204999 series

HO scale

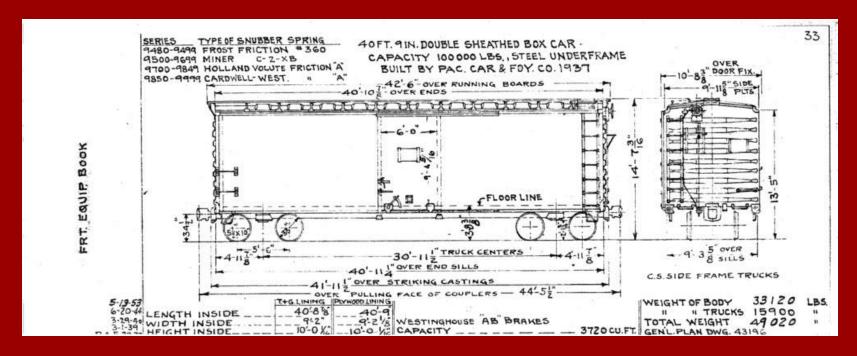


Model by Jim Hayes

HO, Sunshine Models 65.1

– O and N, unsure if models.

9480-9999 series



- Built 1937 by Pacific Car & Foundry.
- -520 cars built.
- Double sheathed AAR design.

9480-9999 series



- -10' IH.
- Dreadnaught 5/4 ends with square corners

Modeling 9480-9999 series HO scale



HO, Sunshine Models 77.5

Modeling 9480-9999 series HO scale



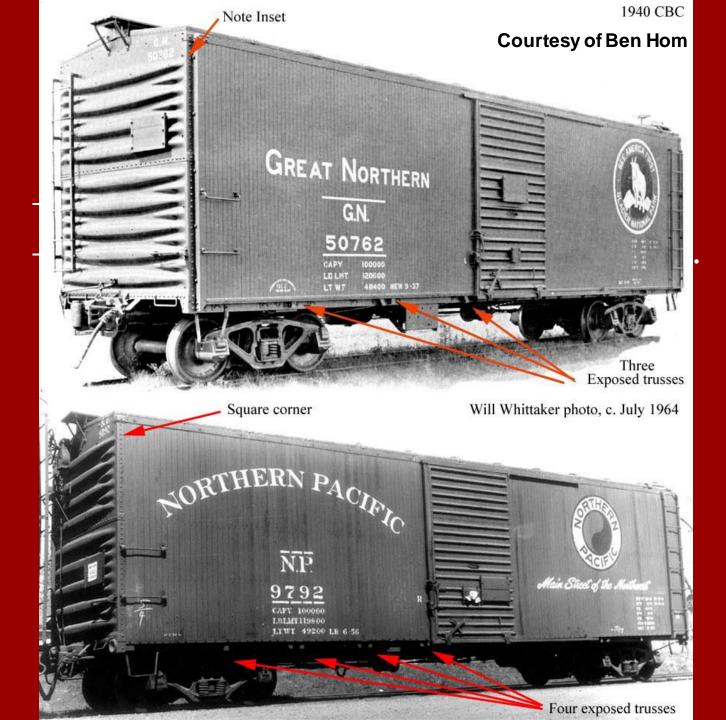
"40514 is a RC 10' AAR square corner post car w/ scratch-built sides from Evergreen, correct NP low track door and 7 rung ladders (I had a Sunshine kit of this car and was unhappy with it, so I scratch-built my own sides with Evergreen wood freight car siding and Archer rivet decals)"

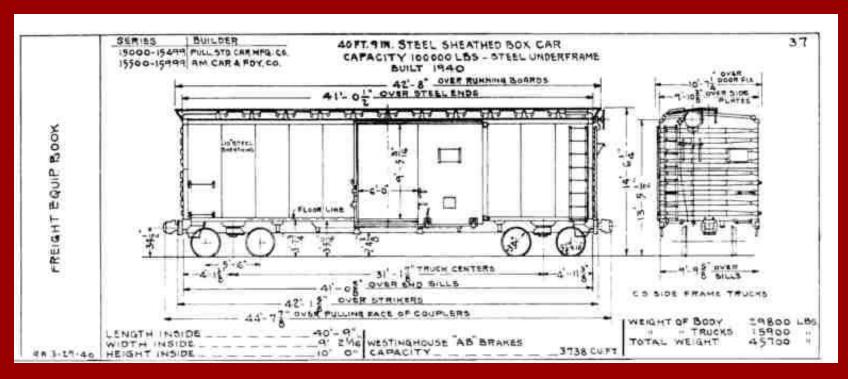
Modeling 9480-9999 series HO scale



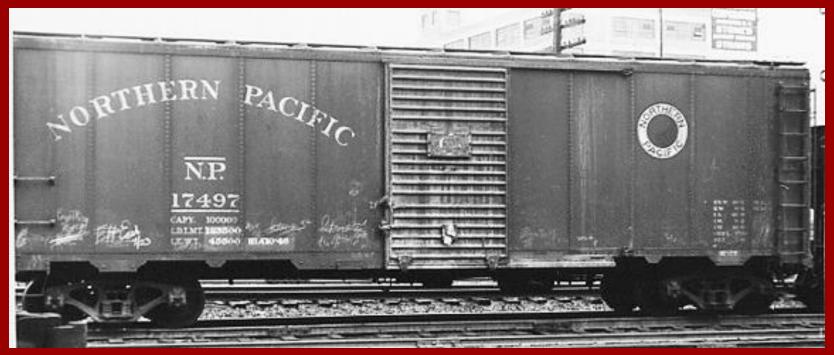
Athearn Blue Box kit

- More accurate for GN
- Clumsy door hardware.





- Built 1940-1941 in 5 groups.
- First cars delivered with Monad, 36".
- Some had cast wheels.



Charles Wales Photo, William Hopkins Collection, early 1948, Washington, DC

- 10' IH, Dreadnaught 4/5 ends, W corners.
- —Some groups delivered with black roofs.
- Original paint scheme.



- Along with the 10000 series DS cars, these were the work horses of the box car fleet.
- "Mainstreet" slogan, appeared October 1947.

15000-17999 series



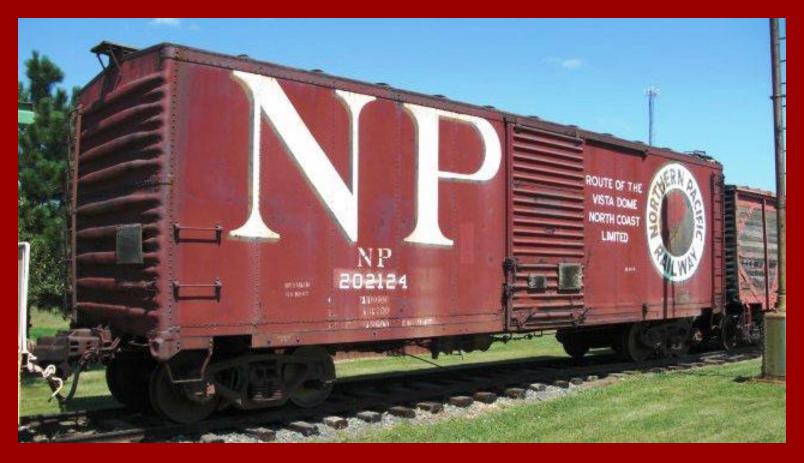
• 60' Herald introduced by May, 1951.



06/79 - Bill Doyle Collection, www.rr-fallenflags.org

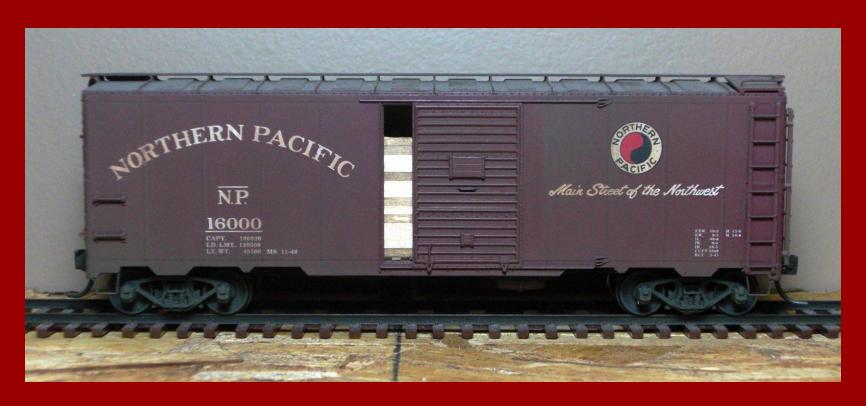
- —Starting in the late 1950's some cars would get their sills reinforced.
 - Note ladders and running boards intact.

15000-17999 series



 $\overline{-NP}$ ex-15672 on display in Mandan, ND.

Modeling 15000-17999 series HO scale



Red Caboose kit

Modeling 15000-17999 series HO scale



Yarmouth Resin kits



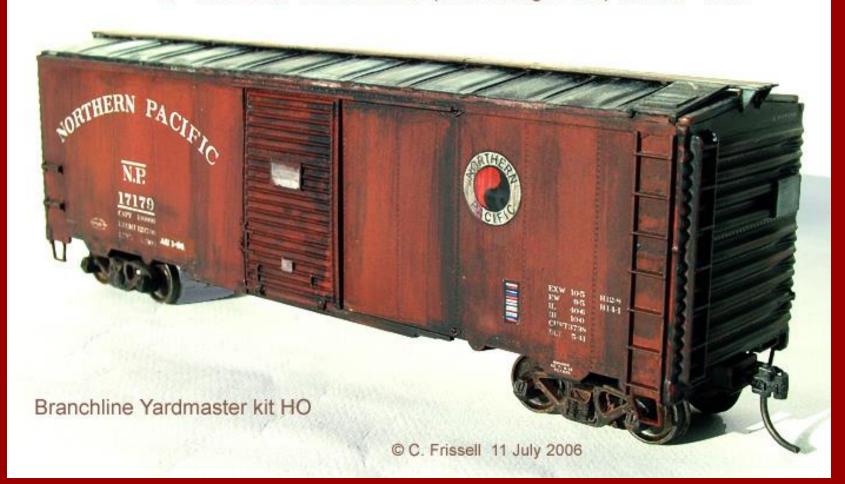
Modeling 15000-17999 series HO scale



- · Top; Branchline Yardmaster kit, MicroScale "Mainstreet" slogan.
- Bottom; Red Caboose kit, MicroScale decals.

Modeling 15000-17999 series HO scale

NP 17170 XM 10ft IH boxcar (1937-design AAR) blt ACF 1941

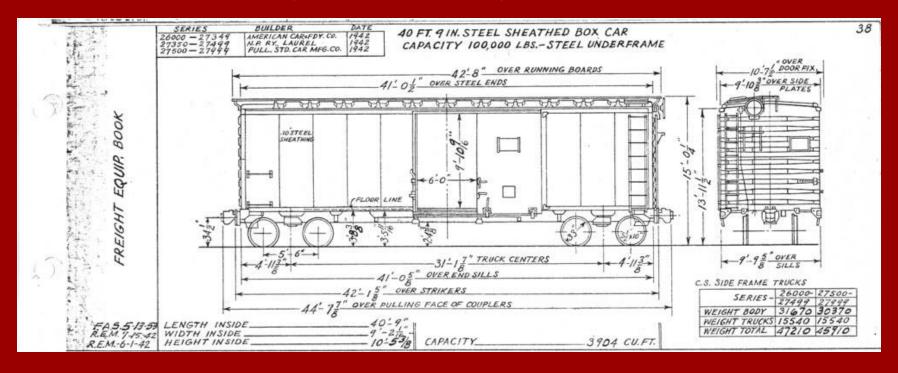


Modeling 15000-17999 series HO scale



"16704 is a IMWX 10' AAR w/ tabbed sill, correct NP low mounted bottom track door and 8 rung ladders."

26000-27349, 27350-27499, 27500-27999 series



- Dreadnaught 5/5 ends.
- Built 1941-42.
- Some had National B-1 trucks.

26000-27349, 27350-27499, 27500-27999 series



1/76 Karl Geffchen Photo www.rr-fallenflags.org

- Reinforced side sill.
- Shortened ladders.
- Youngstown and Superior doors.

Modeling 26000-27349, 27350-27499, 27500-27999 series HO



Discontinued Sunshine kit

Modeling 26000-27349, 27350-27499, 27500-27999 series HO



"27382 is IM 10'6" AAR w/ straight sill, Westerfield 6-7-6 Y-town door and 8 rung ladders"

Modeling 26000-27349, 27350-27499, 27500-27999 series HO

NP 27116 XM, AAR 10ft 6in inside height boxcar, 5/5 ends, as rebuilt 50 ton capacity with National B-1 trucks



Intermountain decorated and built kit, retrofitted with correct 8-rung ladders, door guides, coupler lift bars, Kadee brake wheel, and Proto2000 trucks

Modeling 26000-27349, 27350-27499, 27500-27999 series HO

NP 44083 XM 40ft AAR 10ft6in interior height boxcar with rebuilt side sills, ca. 1969

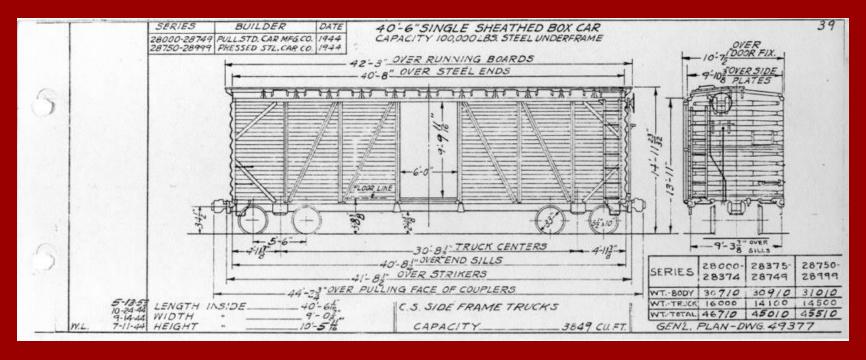


InterMountain undecorated model with rebuilt side sills, Westerfield door, Plano running boards, ModelFlex custom paint and lettered with Microscale decals. © C. Frissell

Model by Chris Frissell

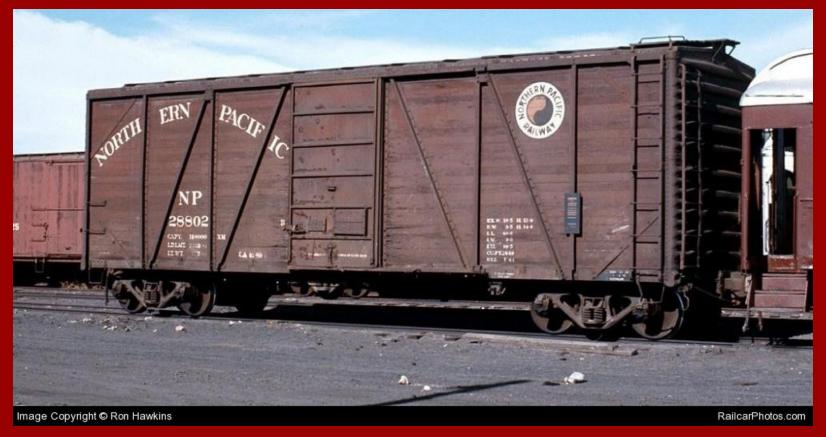
- Renumbered in 1964-65.

28000-28999 series "War Emergency"



- Dreadnaught 5/5 ends.
- Built 1944.
- Last Wooden box cars.

28000-28999 series "War Emergency"



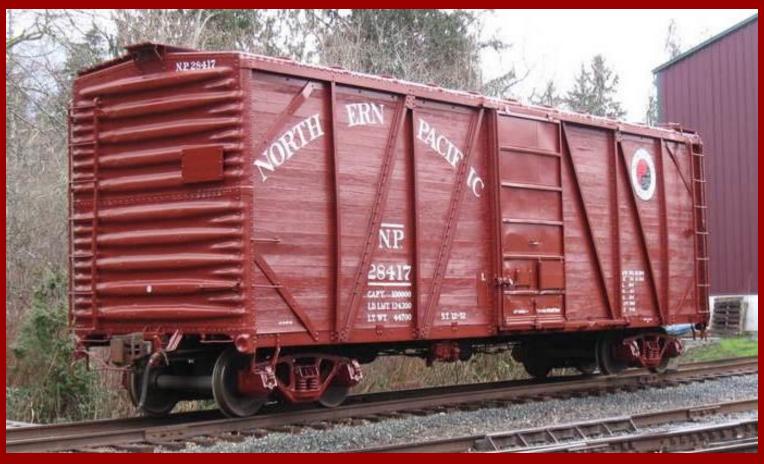
- Seven panel Superior door when delivered.
- Some would get six and five panel doors when rebuilt.

28000-28999 series "War Emergency" HO



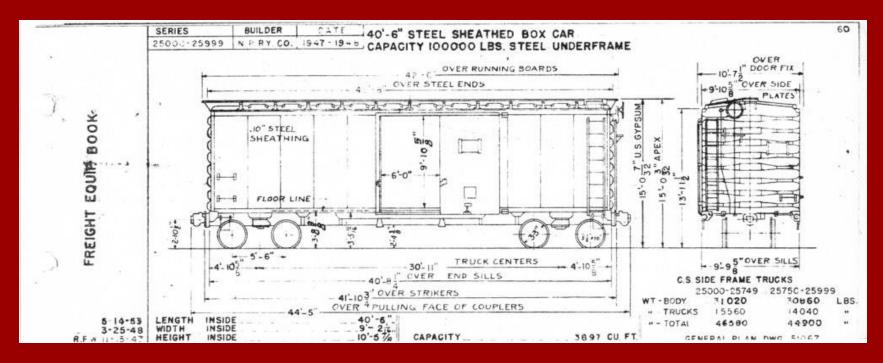
HO, Sunshine Models 29.16

28000-28999 series "War Emergency" 1:1 scale



Richard Wilkens photo, Northwest Railway Museum in Snoqualmie, WA

29000-29999, 25000-25999 series



- Dreadnaught 4/4 ends.
- Built 1945-1947.
- Metal running boards.

40' 10'6" IH AAR Box Cars 25000-

25999 series



Brian Leppert collection. Warren Wing Photo

40' 10'6" IH AAR Box

Cars 25000-25999 series



Modeling 29000-29999, 25000-25999 series HO



Branchline Blue Print kit

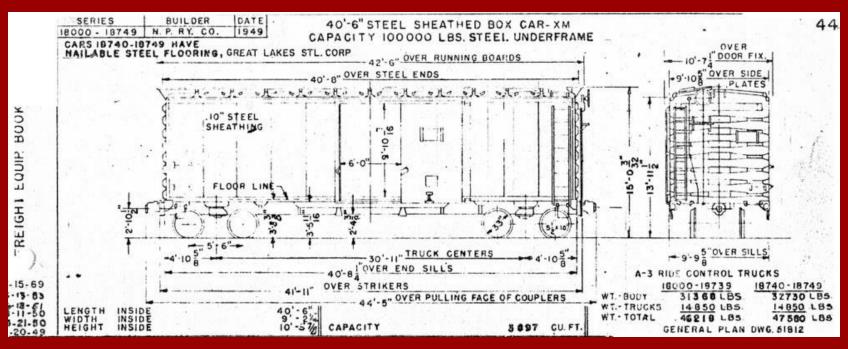
• Could use Intermountain kit with 4/4 ends.

Modeling 29000-29999, 25000-25999 series HO



Unknown kit

18000-18749, 24500-24999 series



- Dreadnaught R-3/4 ends.
- 24500-24999 built 1948, rectangular panel roof.
- 18000-18749, built in 1949, introduction of diagonal panel roof.

24500-24999 series

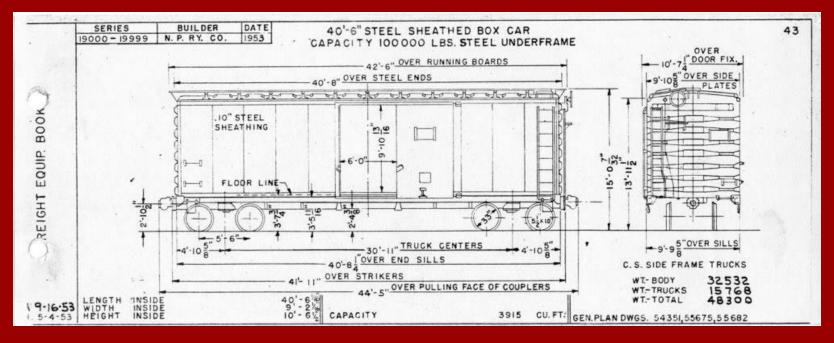


- Built 8-48
- Black roof and ends.
- Rectangular panel roof with R-3/4 ends.
 - Very unusual.

18000-18749, 24500-24999 series HO



"18689 is a BL 10'6"AAR w/ straight sill and 8 rung ladders."



- Dreadnaught R-3/4 ends.
- Built 1951, 1953.



- Straight sill length of car.
- Delivered with 60" Herald.





- Some of the first cars to get "DF", damage free scheme in 1954.
- Wider 8' door.



- Delivered Prior to 1940
 - Large car number and dimensional data in pyramid arrangement.

Wooden Box Car Paint Schemes

Single sheathed cars



Richard Wilkens photo, Northwest Railway Museum in Snoqualmie, WA

- 1940, data same as steel cars
 - 36" Monad.



- 1955-Merger
 - Small Herald with "Railway" added.



As delivered

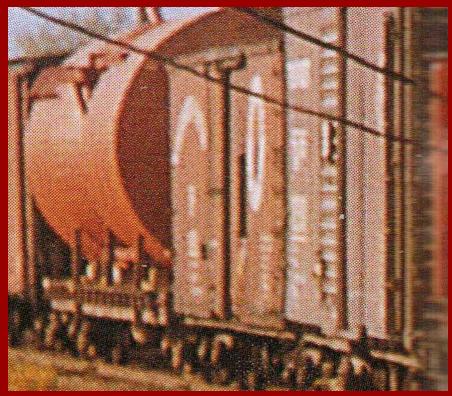
- Large car number and dimensional data in pyramid arrangement.
- Survive as late as 1952.



- About 1940
 - 36" Monad.



- 1951-Merger
 - 48" Monad and "Mainstreet" slogan
 - After Mid 50's, at least some 1937 DS cars received "Railway" herald.



NP in Color V1, Oct 13, 1956, J.J. Buckley photo

60" Herald without "Mainstreet" stogan.

Oddballs

48" Herald with "Yellowstone Park Line".



Black ends

Steel cars

NP 27116 XM, AAR 10ft 6in inside height boxcar, 5/5 ends, as rebuilt 50 ton capacity with National B-1 trucks



Intermountain decorated and built kit, retrofitted with correct 8-rung ladders, door guides, coupler lift bars, Kadee brake wheel, and Proto2000 trucks

Steel cars

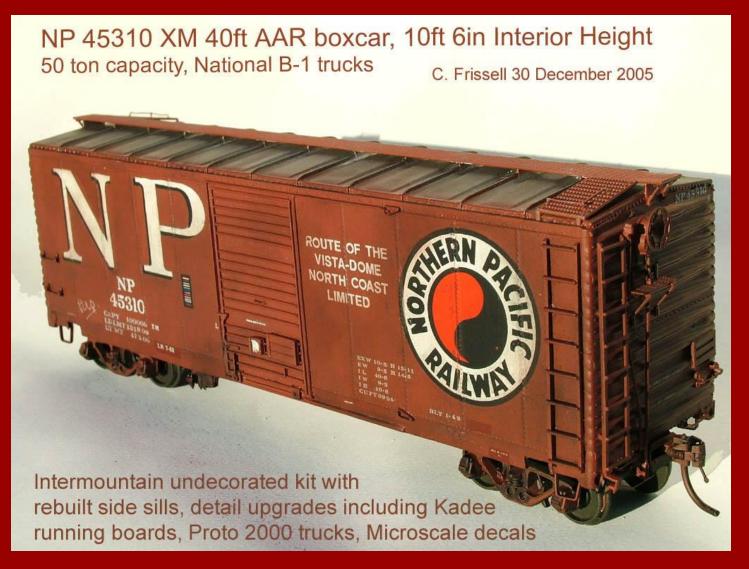
NP 39000 series ex-DT&I boxcar ca. late 1969

© C. Frissell



Bowser X-31a kit, reworked underframe, ladders, grabs and brake detail, Microscale decals

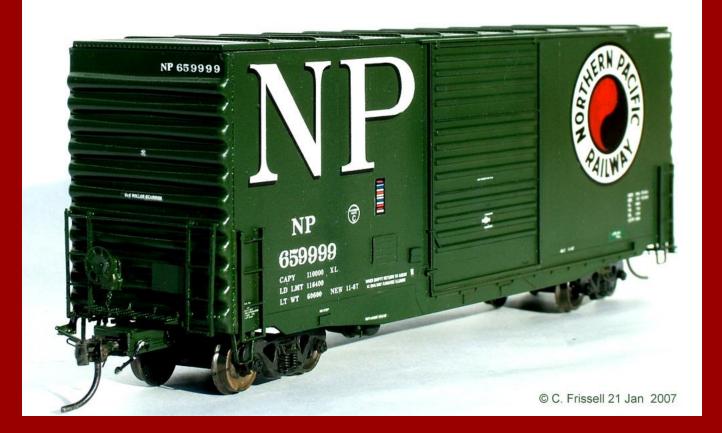
Steel cars



Steel cars

NP 659999 XL Appliance Boxcar, Pullman-Standard "Baby Hy-cube"

Hi-Tech Details kit w additional details, Modelflex custom mix paint, Microscale and Modelers choice decals



Steel cars

NP 1052 XML 40ft DF boxcar ca. 1969

Branchline kit with 8ft door, modified side sill and details, Modelflex custom mix paint, Decals from Microscale, Modelers Choice, and Champion



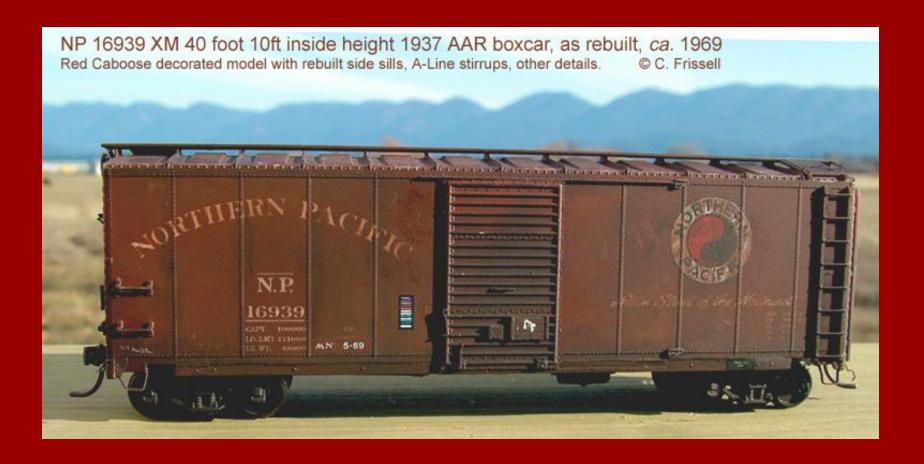
Steel cars

NP 1052 XML 40ft DF Brainerd-built boxcar ca. 1969

Branchline kit with 8ft door, modified side sill and details, Modelflex custom mix paint, Decals from Microscale, Modelers Choice, and Champion



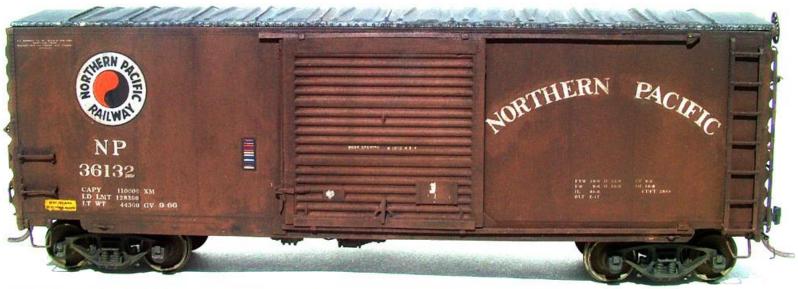
Steel cars



Steel cars

NP 36000-36298 series 40-ft, 10ft3in-door boxcar, ca 1969.

© C. Frissell 7 September 2005



Prototype rebuilt from Lehigh Valley series 62000-62433, leased from A.A. Morrison in 1967. HO Model from Intermountain P-S boxcar shell with modified Accurail door, Intermountain Stanray diagonal panel roof, rebuilt side sills, additional details, and Microscale decals.

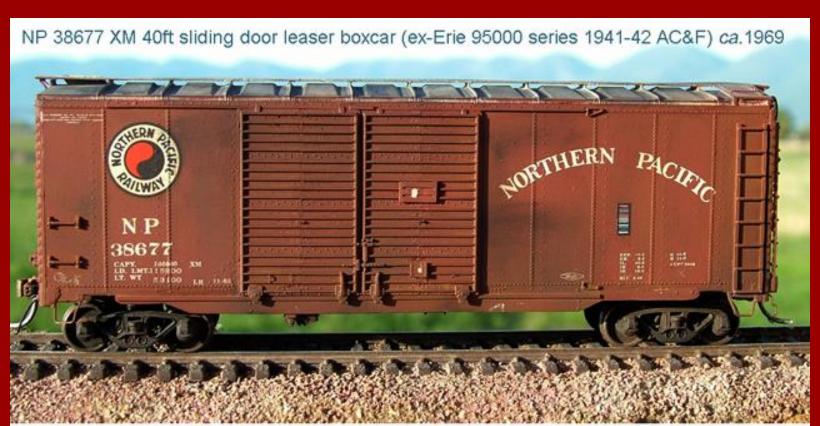
Steel cars



Steel cars



Steel cars



Intermountain AAR kit with 4/4 dreadnaught ends, cut down Proto2000 doors, rebuilt side sills, Archer lap seam and siide siil rivet details, Plano running boards, other details; Microscale and Champ decals.

© C. Frissell May 2009

Steel cars

NP 44083 XM 40ft AAR 10ft6in interior height boxcar with rebuilt side sills, ca. 1969



InterMountain undecorated model with rebuilt side sills, Westerfield door, Plano running boards, ModelFlex custom paint and lettered with Microscale decals. © C. Frissell

NP Box Car Lecture Naperville, Ill. 2012



The End