



# BRASS CAR SIDES

## *Passenger Car Parts for the Streamliners*



Milwaukee Road 1948 *Hiawatha* Coach [No. 173-502]  
Milwaukee Road 1948 *Hiawatha* "Valley" Parlor [No. 173-503]  
Milwaukee Road 1947 *Hiawatha* 60' Railway Post Office [No. 173-559]  
Milwaukee Road 1947 *Hiawatha* "Grove" Cafe-Parlor [No. 173-560]

The Milwaukee Road was unique among U.S. railroads in building most of its lightweight passenger cars in its own shops. (The Pullman-Standard sleeping cars and the Super Domes were among the exceptions.) Lightweight coaches for the 1947-48 *Twin Cities* and *Olympian Hiawathas* were originally numbered 480-497 and 535-551. When the Milwaukee began handling the UP "City" Streamliners on October 31, 1955, some of these cars were equipped with leg rests and renumbered in the 600-series. In later years, these coaches were operated on all passenger trains, and they continued in Amtrak service into the mid-1970's.

The "Valley" series parlor cars and 60' postal cars 2152-53 also ran regularly on the *Twin Cities Hiawathas*, and the "Grove" series cafe-parlors 180-185 operated on many of the other trains in the fleet, including the *Pioneer Ltd.*, for which two cars (182 "Union Grove" and 185 "Twin Grove") were converted into diner-lounges.

These scale-length N-scale sides are designed to be used with American Ltd. Models 8000-series Core Kits. The coach, parlor, and cafe-parlor are exact length matches for the ALM kits. The "Grove" sides were retooled in November, 2008 with minor changes in window dimensions and positions to reflect new information. The 60' postal car is scale length and requires that the floor and roof of the ALM kit be shortened by 1.584" in the middle of the floor and at either end for the roof. The ALM kits come with their own instructions, which this sheet supplements.

### REFERENCES

Passenger Cars Vol. 2 Streamline Cars, by Hal Carstens (Carstens). Coach (pp. 132-3); tap-lounge (p. 194-5); parlor (p. 145); baggage-dorm (p. 123)  
Streamliner Cars Vol. III P-S/Others by David Randall (RPC Pub.)  
Yahoo Group MILW. PDF file of Drawings by Rick De Karske of 1947-48 *Hiawathas*. Color side views in UP scheme, with underbody and roof detail.  
The Hiawatha Story by Jim Scribbins (Univ. of Minn. Press, 2007; Kalmbach, 1970)  
Pullman-Standard Library Vol. 15 MILW, MKT, FRISCO, MP, KCS, DRGW (RPC)  
Milwaukee Road Remembered by Jim Scribbins (Univ. of Minn. Press; 2008, Kalmbach, 1990)  
The Milwaukee Road in Color Vols. 1-4 by various authors (Morning Sun)  
The Union Pacific Streamliners by Ranks and Kratville (Kratville, 1974)  
Mainline Modeler "Coach No. 658 Circa 1965 (HO) by R. J. Zenk, March, '84.  
Passenger Cars Vol. 1, reprint of R.J. Zenk article from Mainline Modeler (Hundman Pub., o.p.)

### CONSTRUCTION NOTES

These parts are etched from .008" spring brass sheets and are coated with clear Krylon to retard oxidation. This coating may be left in place on the rear surface, but should be removed from at least the front side prior to construction and painting. The acrylic coating is most easily be removed with a paste-type paint remover such as Strypeeze, but acetone, MEK or similar solvent will work. Be sure to use good ventilation. The sides will begin to oxidize as soon as they are stripped, but this is not a problem if the brass is degreased well before priming and painting.

Microscope slide cover glass makes a fine window material, but clear styrene or acetate sheet stock is also good, and easier to work with. Of course, final attachment will have to wait the painting and finishing steps. Grabiron "dimples" or tiny holes have been etched into the rear of the brass sides to permit easy drilling for those wishing to add wire grabirons.

## DECALS AND PAINTS

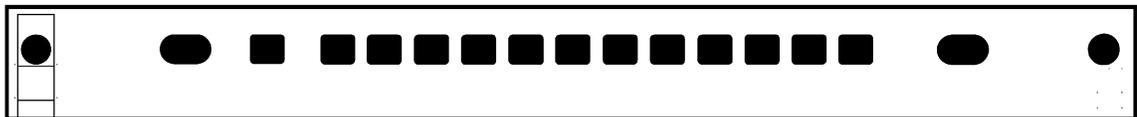
Milwaukee Orange: Floquil 162. Milwaukee Passenger Maroon: Accupaint 35; Black for roofs: Scalecoat 10, Accupaint 62; UP Armour Yellow: 166, Scalecoat 22, Tru-Color TCP- 026, Accupaint 67; UP Harbor Mist Gray: Scalecoat 32, Tru-Color TCP-025, Accupaint 68.

Decals: [www.petescustomdecals.com](http://www.petescustomdecals.com). Streamstyle Graphics is no longer in business.

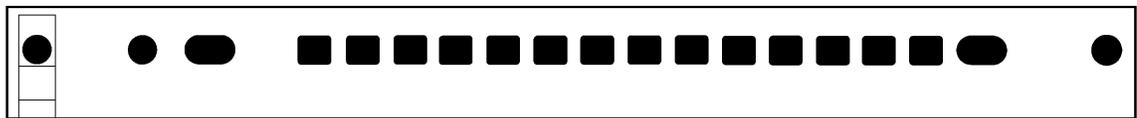
Other Brass Car Sides Milwaukee Road side sets in HO and N (500-series) are listed below.

- 1948 *Hiawatha* RPO-Express (1208-30) with separate doors, #173-52 and #173-552
- 1948 *Hiawatha* "Tap Lounge" (162-67, 172-3), #173-53 (discontinued) and #173-553
- 1948 *Hiawatha* 75' Express (1317-29) with separate doors, #173-54 (discon.) and #173-554
- 1948 *Hiawatha* 40-seat Diners (115-126), #173-55 (discontinued) and #173-555 (discontinued)
- 1948 *Hiawatha* 75' Baggage-Dorm (1309-1314), #173-57 and #173-557 (discontinued)
- 1948 *Hiawatha* "Touralux" 14-Section (5740-51), #173-58 and #173-558 (discontinued)
- 1948 *Hiawatha* "Coach-Touralux" (5770-75), #173-66 and #173-566

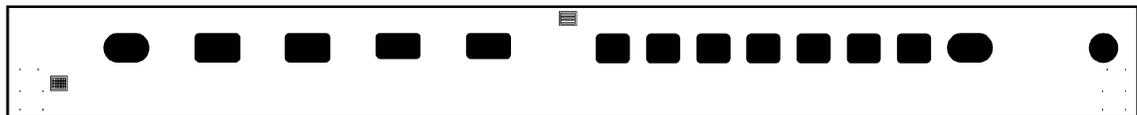
Please refer to our catalog sheets for illustrations of all current brass side sets, detail parts and railroad DVD's. We solicit your interest in potential new items since the production of future sides depends on customer reservations and commissions. All of our information sheets are available for downloading at [www.brasscarside.com](http://www.brasscarside.com), where many photos of cars built by our customers may also be viewed. To receive printed copies of our catalog, reservation form, and current bulletin, please send a two-stamp SSAE to: **BRASS CAR SIDES**, 715 S. 7th St., St. Peter, MN 56082. Send e-mail to [info@brasscarsides.com](mailto:info@brasscarsides.com). Revised printing April 12, 2017.



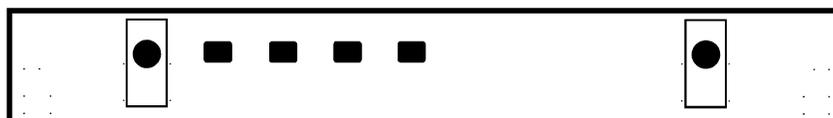
Milwaukee Road 1948 *Hiawatha* Coach [No. 173-502]



Milwaukee Road 1948 *Hiawatha* "Valley" Parlor [No. 173-503]



Milwaukee Road 1947 *Hiawatha* "Grove" Cafe-Parlor {No. 173-560}



Milwaukee Road 1947 *Hiawatha* 60' RPO [No. 173-559]