



# THE MILWAUKEE ROAD

Route of the Super Dome Hiawathas and  
The Western "Cities" Domeliners



## BRASS CAR SIDES

*Passenger Car Parts for the Streamliners*

1948 *Hiawatha* Coaches 480-497, 535-551, 600-series [No. 173-2, Discontinued]  
1848 *Hiawatha* "Valley" Parlors 190-197 [No. 173-3, Closeout]  
1948 *Pioneer Limited* 16-4 "Raymond" Pullman Sleepers 27-30 [No. 173-7]  
1948 *Pioneer Limited* 8-6-4 "River" Pullman Sleepers 19-26 [No. 173-8]

The Milwaukee Road was unique among U.S. railroads in building most its own lightweight passenger cars, with the P-S sleeping cars and Super Domes being the exceptions. In 1979, **BRASS CAR SIDES** began producing photoetched brass HO sides for the coaches and parlors for the 1948 *Twin Cities* and *Olympian Hiawathas*, and in 1981 we added the 16-4 "Raymond" and 8-6-4 "River" sleepers for the post-war *Pioneer Limited*. Since 2002 we have added numerous other side sets in both HO and N-scale for the *Olympian Hiawatha* and the entire Milwaukee post-war fleet. These are described in separate sheets and on our web pages.

### REFERENCES

Milwaukee Road Passenger Trains Vol. 1 by John F. Strauss, Jr. (Four Ways West)  
The Hiawatha Story by Jim Scribbins (University of Minnesota Press, 2007; Kalmbach 1970)  
Pullman-Standard Library Vol. 15 MILW, MKT, FRISCO, MP, KCS, DRGW (RPC)  
Passenger Cars Vol. 2 by Hal Carstens (Carstens). Plans & photos for #173-2, #173-3.  
Passenger Cars Vol. 3 by Hal Carstens (Carstens). Plans & photos for #173-7, #173-8.  
Milwaukee Road in Color Vols. 1-4 by several authors (Morning Sun)  
Milwaukee Road Color Guide to Freight & Passenger Equipment, Stauss (Morning Sun)  
Milwaukee Road Remembered by Jim Scribbins (Univ. of Minn. Press, 2008; Kalmbach, 1990)  
The Union Pacific Streamliners by Ranks and Kratville (Kratville, 1974)  
Streamliner Cars Vol. I & III P-S/Others by David Randall (RPC Pub., O.P.)  
Car Names, Numbers and Consists by Robert Wayner (Wayner, O.P.)  
Mainline Modeler "Coach No. 658 Circa 1965 by Robert J. Zenk, March, 1984  
Passenger Cars Vol. 1, reprint of R.J. Zenk article (Hundman Pub., O.P.)  
Pdf file of Drawings of 1947-48 Hiawathas by Rick De Karske in Yahoo Group MILW;  
wonderful color side illustrations in UP scheme, with underbody and roof detail.  
Walthers O-scale kit plans for the *Twin City* and *Olympian Hiawathas*. We can supply photocopies of plans for these cars in exchange for a large SSAE with postage for three ounces. Please specify the cars for which you would like copies. Send e-mail to [info@brasscarsides.com](mailto:info@brasscarsides.com) to confirm availability.

### RECOMMENDED CONSTRUCTION TECHNIQUES

These side sets are scale length and are therefore not good candidates for the overlay method on the excess-length Rivarossi "1930" plastic cars. However, we have recently discovered that the Walthers 932-6700 and -16700 series of smoothside Pullman-Standard 4-4-2 and 6-6-4 sleepers are an almost perfect length match to our "Raymond" and "River" sides. Specific models tested with excellent length matches were #932-6712 NYC 4-4-2, #932-16702 IC 4-4-2, #932-6707 PRR (Late scheme) 4-4-2, #932-6723 CNW (Late Scheme) 6-6-4, and #932-6731 UP 6-6-4. The unskirted IC, NYC and PRR cars were the best matches, running only a few thousands of an inch longer than the brass sides. The Walthers plastic cars are very consistent in size, with length variations between production runs and different paint schemes of the same prototype typically 1-2 scale inches. However, outliers can be

found, such as a #932-6711 UP 4-4-2 w/skirts that was about 3 scale inches longer than group listed above. Although all of these stock numbers have been discontinued, they were produced in considerable numbers and many ended up on Walthers and dealer closeout sales. The long-discontinued Eastern Car Works #1200 Core Kit is a good length match for the two sleepers but suffered from warped roofs. The Train Station Products No. 807 P-S/ACF Core Kit is about 6" too short for the sleeper sides and is no longer easily found.

For those wishing a "clean slate" approach we recommend our Basic Body Kit No. 173-101, which requires some shortening of the roof and floor. This kit consists of basswood roof and floor, pewter cast ends, and basswood centersill. The instructions enclosed with the body kit cover the basic steps for building the car body. The P-S ends in the kits make a nice body with the sides, but lack the unique ribs that were a feature of the Milwaukee Shops-built coach and parlor cars. Some modelers may wish to add this detail feature or substitute other roofs.

#### DECALS, PAINTS AND DETAIL PARTS HISTORIC LIST

<u>Paint Color</u>	<u>Floquil</u>	<u>Scalecoat</u>	<u>Accupaint</u>	<u>Modelflex</u>	<u>Polly Scale</u>
Milwaukee Orange	110162		15 (?)	1642	414152
Passenger Maroon			35	1643	414155
Black for roofs	110017	10	62	1604	414140
UP Armour Yellow	110166	22	67	1624	414170
UP Harbor Mist Gray	110167	32	68	1625	414176

Decals: [www.streamstylegraphics.com](http://www.streamstylegraphics.com), [www.petescustomdecals.com](http://www.petescustomdecals.com), [www.microscale.com](http://www.microscale.com) and Chartpak red 1/32" tape.

The availability of detail parts for lightweight passenger cars is always problematic and some distinctive Milwaukee Road details are especially hard to find. We refer the modeler to Detail Associates (DA), Eastern Car Works (ECW), Custom Finishing (CF), American Limited Models (ALM), Precision Scale (PS), Train Station Products (TSP), Great Western Passenger Car Details, and Bill's Narrow Gauge Shop (for nice roof castings). Unfortunately, several of these companies are no longer in business. The Walthers HO Reference Book, manufacturer web sites, Yahoo! Groups and your dealer are your best sources of information. We particularly call your attention to: TSP #460 underbody parts, DA #6601, -02 & -03 grabirons, CF Nos. 292 & 293 roof and underbody kits, ALM #9000 diaphragms, CS #353 genemotor, roof hatch (Styrene .015"x5.5"x4' HO), trucks (TSP #499, MDC #2935, Walthers 933-1072 GSC silver or 1072 black).

Please see [www.brasscarsides.com](http://www.brasscarsides.com) where all product support sheets, images and photos are available for downloading. To receive paper 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. Dealer terms are available. Address e-mail to [info@brasscarsides.com](mailto:info@brasscarsides.com).

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