



# HO Milk Car

## KIT 43299 Undecorated HO Milk Car Kit

### GENERAL INSTRUCTIONS

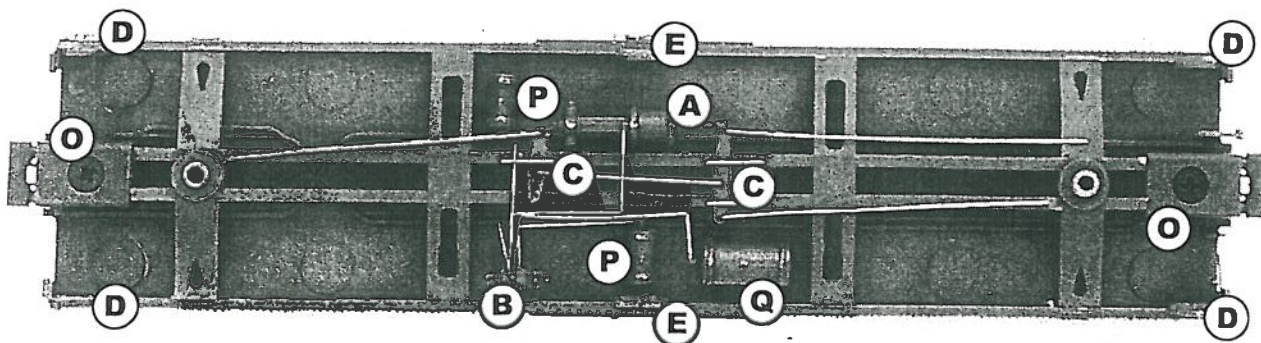
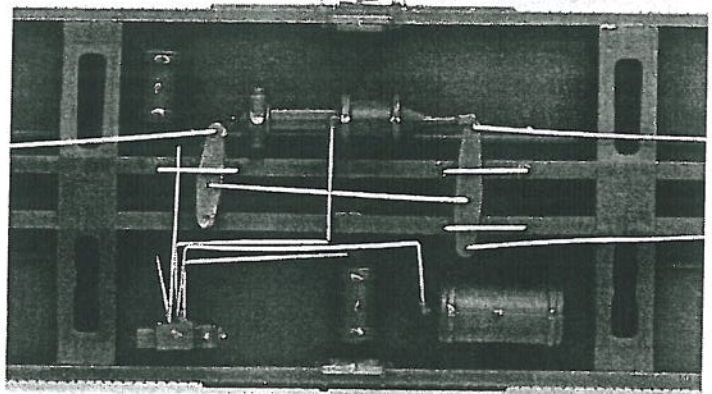
Please read the instructions carefully and study the drawings and parts before beginning assembly. Many of the small parts are very delicate in order to achieve a prototypical appearance on the finished model. Do not attempt to twist or break parts from the sprues. The most useful tool for removing small parts are a hobby knife with sharp blades, de-spruing nippers designed for removing small parts, or small diagonal cutters. Other tools that may be helpful are an assortment of small drills, sandpaper or files and some type of magnification.

### ASSEMBLY TIPS

Carefully clean any excessive flash from parts to assure a proper fit when assembling the model. Carefully trim the sprue gates from all of the small parts. The underbody parts of the Pfaudler Milk Car are molded in an engineering plastic for durability and cannot be glued with conventional solvent type cement. It is best to use a more viscous type of super glue or epoxy to attach these parts. Apply glue sparingly using a small wire dipped in a pool of cement on a suitable palette (glass, cardboard or plastic.) Test fit all parts before gluing in place. Use small drills to open up any holes that may need it.

### 1 - UNDERFRAME

Examine the center sill casting. On the underside of the truck bolster area you will notice a square recessed area around the truck mounting hole. Look at the body and you will see a square area around the truck mounting post. Matching these two areas up, fit the center sill over the post and test fit. Once it fits securely all along the floor bottom, glue in place. Proceed on installing the underbody details. Refer to the drawings and photographs for proper placement of these parts. The brake cylinder (A) rests on a square support on the floor. Be sure the pointed end of the cylinder faces the brake wheel end of the car. Each air tank (P)(Q) has a large and small pin molded on it which will fit into the corresponding holes in the floor. The triple valve (B) should have the five small holes facing the center of the car. Install the brake levers (C). If you are adding the brake piping, now is a good time to do it. Follow the drawing for proper placement. After the brake piping is installed, the brake rods can go in. Each segment of brake rod will have 90 degree bends on both ends of the wire. Glue all of these in place. Finish the underframe by adding the brake lever hangers and stirrup steps (D)(E). The stirrup steps mount behind the curved surface of the sill. The square steps go in the center of the car under the side doors and each corner step will have an angle facing the center of the car. When appropriate, install your favorite couplers and secure the coupler lids (O) with screws. Attach the trucks to the floor with the provided screws as well.





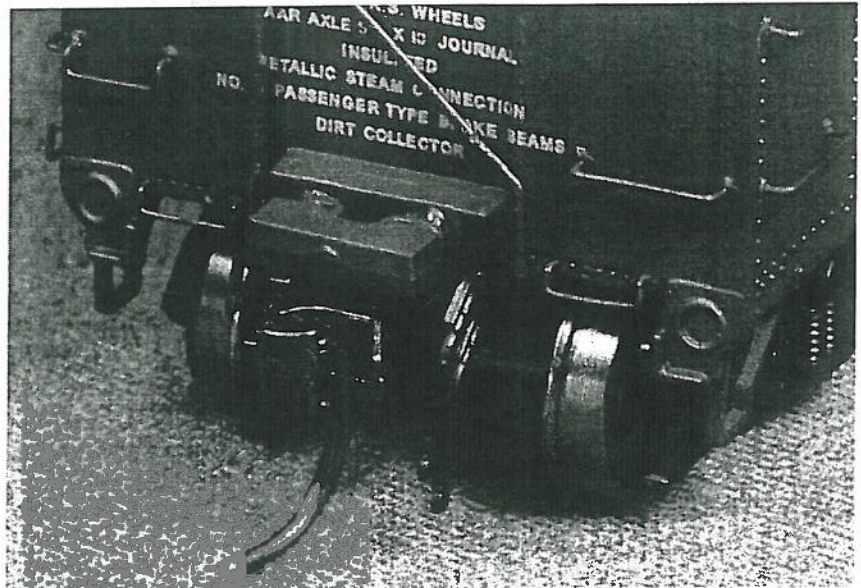
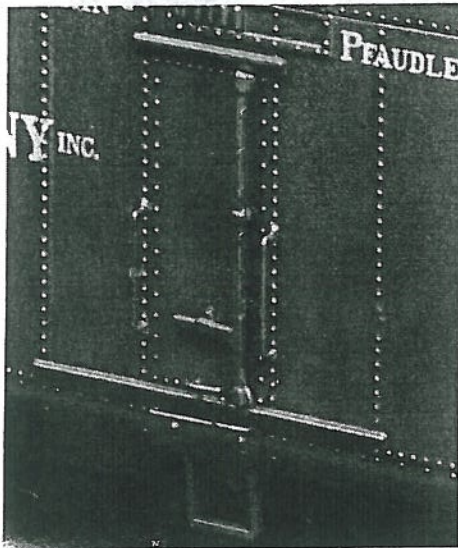
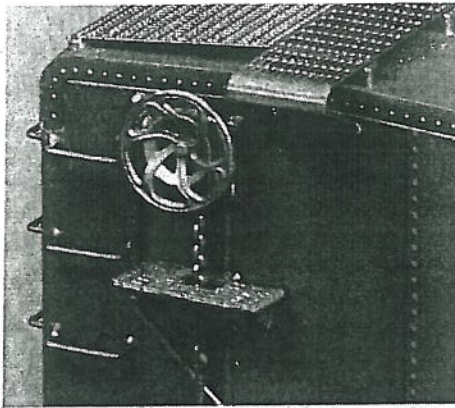
## 2 - BODY DETAILS

Now start adding details to the body. The plastic door latches (F) can be installed in the mounting holes in the side doors. The end buffer castings (G) are installed in the two holes on the end of the car over the coupler. The air line casting (H) will mount to the holes on the right of the coupler under the body. The steam line (I) will mount in the hole to the left of the coupler. The steam line is molded so that it will hang under the coupler when installed, you may want to add it after the car is built. Add the brake housing (J) to the brake end of the car and glue on the brakewheel (K). Add the two brake platform supports (L) on either side of the brake chain. Add the brake platform (M) (Note, you must thread the brake rod through the platform before the rod is attached to the clevis.) After the platform is glued in place, attach the clevis (N) to the bottom of the car and glue on the brake rod.



## 3 - WIRE DETAILS

Start with the brake piping on the brake end of the car. This part will mount in two holes. The first hole is to the left of the brake housing. The wire then runs down behind the brake rod, then at an angle across the end of the car, and mounts into a hole to the right of the coupler box. Next, add the door grab irons - three on each side of the car. Two go to the left and right of the door, and one on the bottom. Add the straight grabs to the left corner of the sides and right corner of the ends. Add the small straight grabs to the sill on each end of the car. Lastly, add the remaining straight grabs to the right corner of the sides and left corner of the ends. Note: the grab-iron on the right bottom corner of the sides as well as lowest grab-irons on the ends are offset grab-irons.



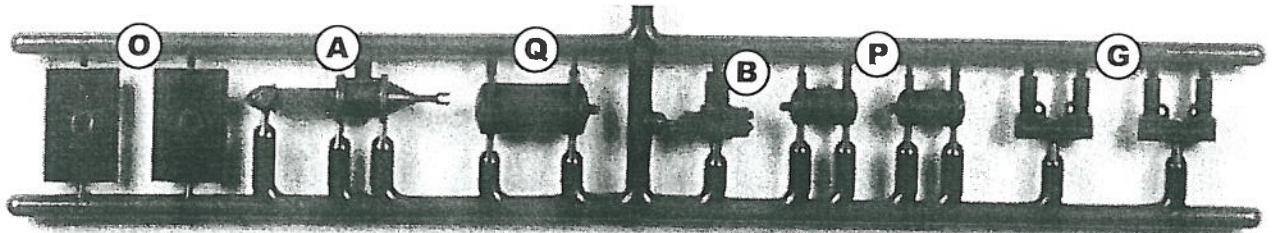
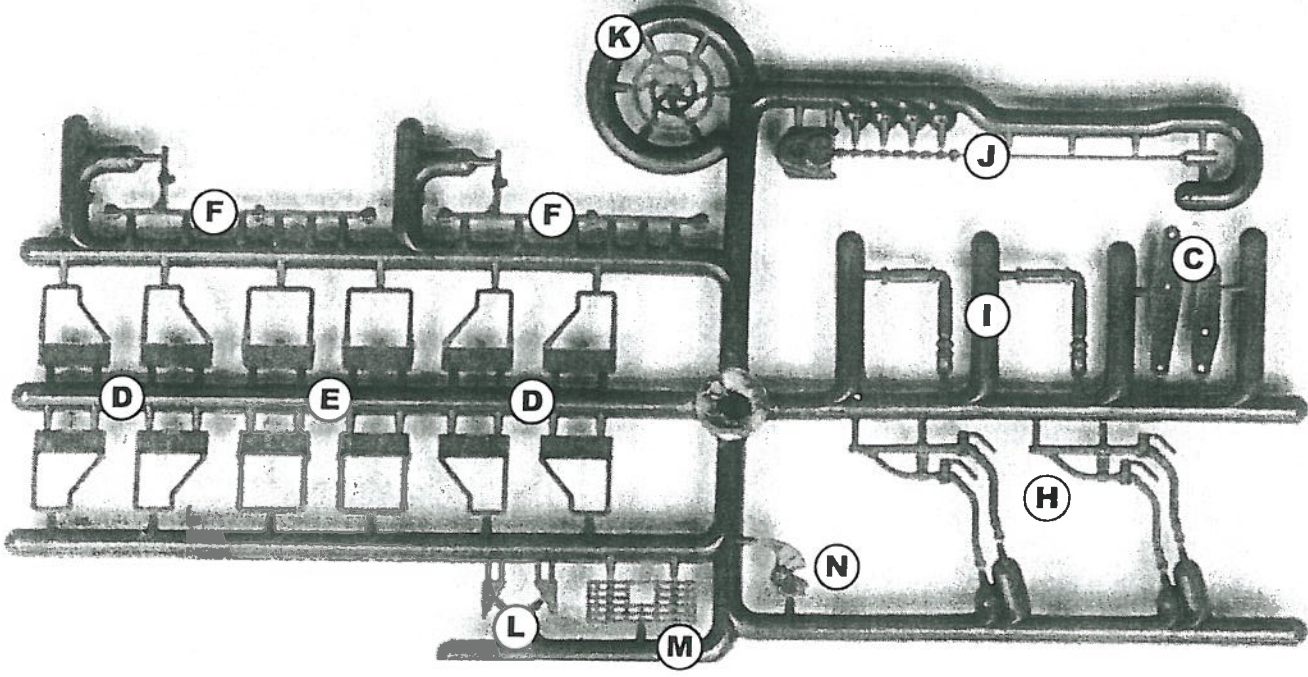
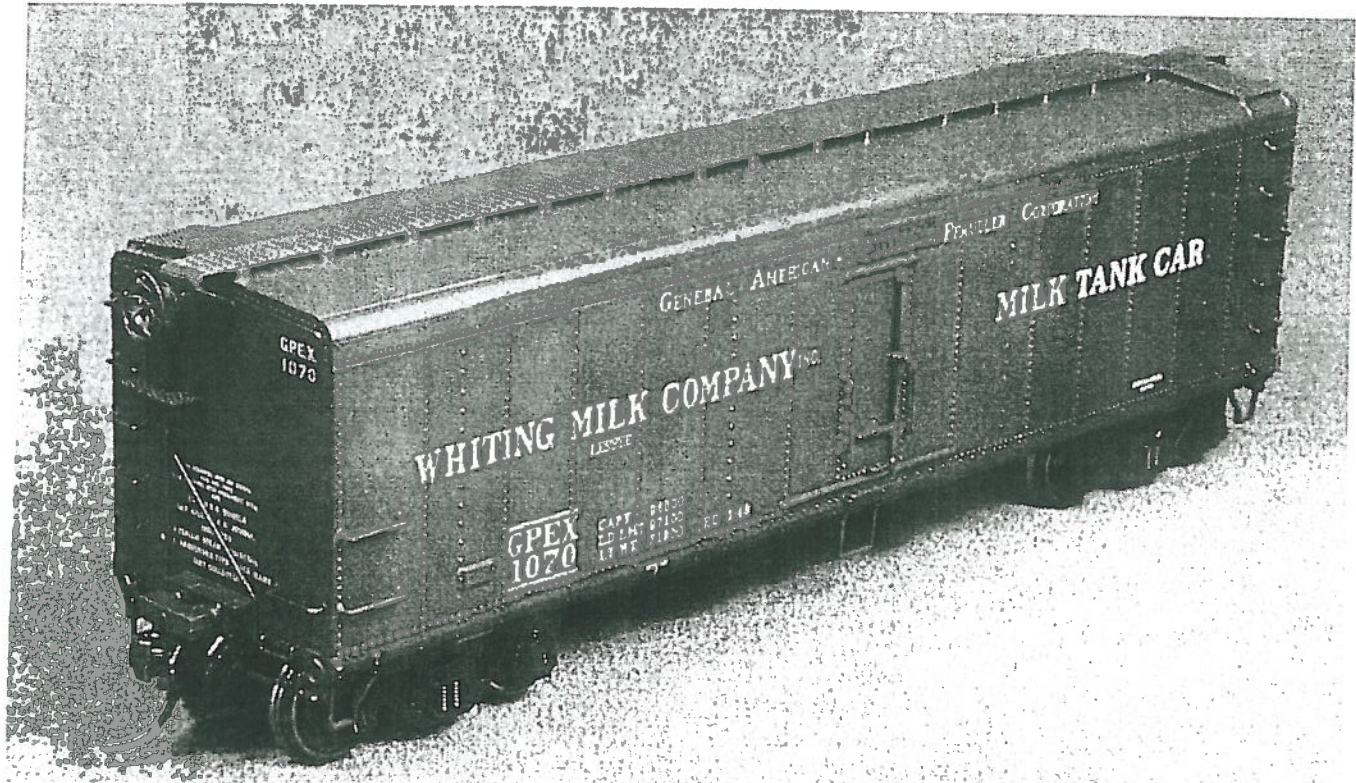
## 4 - ROOF

Test fit the roof on the body making sure it seats correctly. Before gluing the roof in place, make sure you have added any weights to the inside of the body and glued them securely. When ready, glue the roof in place. It may help to add rubber bands around the body and roof until the glue is set. Test fit the etched metal roofwalk. Bend down the corner walks to match the roof angle. Bend the end supports down and form them so they touch the car ends. (NOTE: Etched metal can be very sharp. Please handle with care when making these bends.) When you are happy with the form of the roof, glue in place using epoxy or super glue.

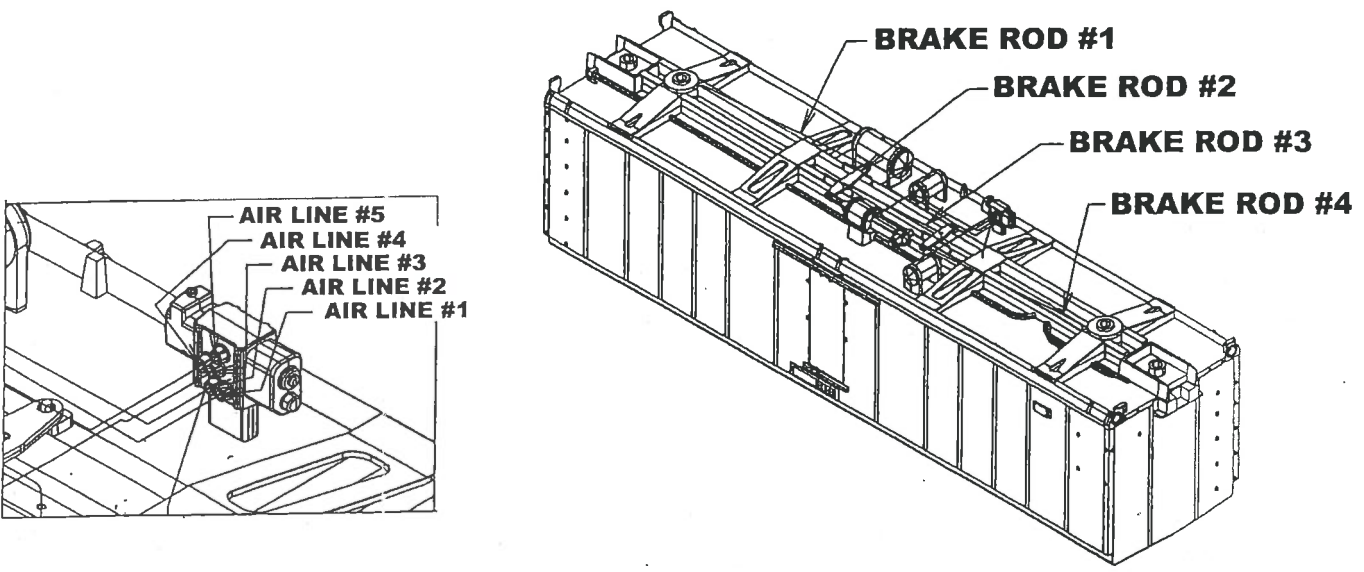
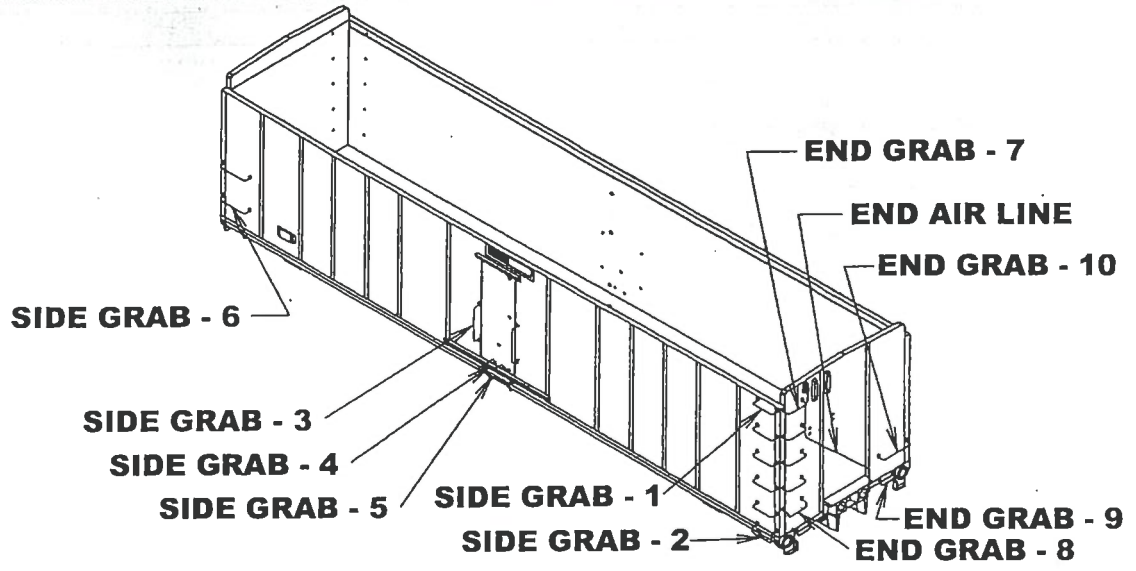
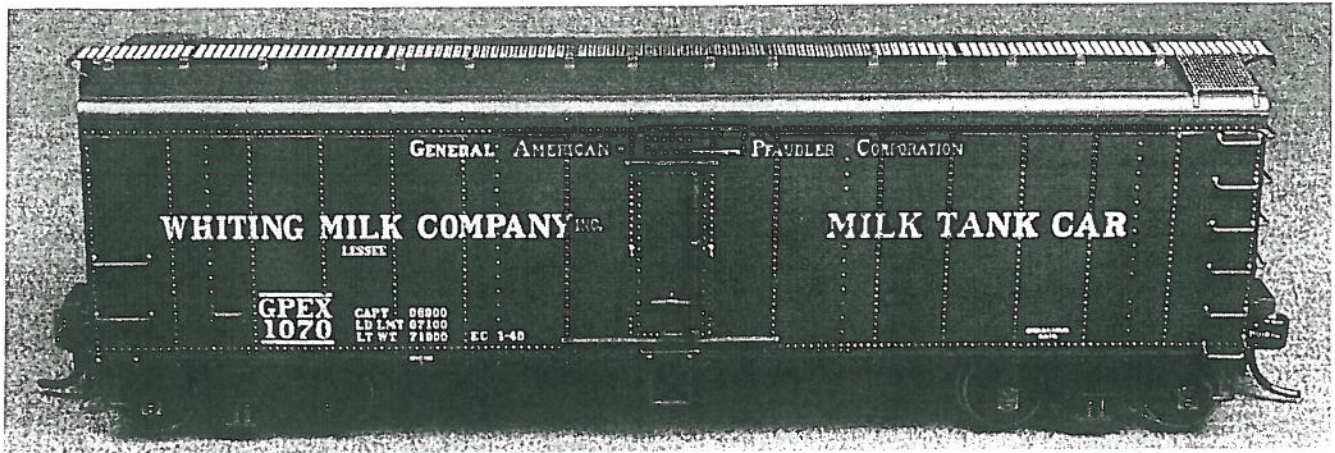
## 5 - FINISHING

Now that the car is built, paint and letter for your favorite road name. Attach the trucks and couplers and put it to work hauling your favorite liquid beverage on your layout. We hope you enjoy this kit.









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