

Instructions for adding Plano Model Products Walkway Kit #087 to Proto 2000 or Wm. K. Walthers 4427 PS-2CD Covered Hopper

Plano Model Products PS-2CD walkway conversion kits are designed to replace the standard walkway and brake platforms on either Proto 2000s or Wm. W. Walthers 4427 PS-2CD covered hopper models. Before starting, read through these instructions carefully and familiarize yourself with them.

A couple notes before starting. All brass parts are attached to a framework to protect them from loss and damage. Carefully trim parts from framework as close to framework as possible. Stainless parts should be trimmed to match drawings of parts on back of these instructions. Some illustrations may be simplified for clarity.

WARNING: ALL MATERIAL IN THIS KIT CAN BE VERY SHARP AND CLIPPED PIECES CAN FLY, WEAR EYE PROTECTION!

Preparing car roof for new walkway

Carefully fill and smooth all the holes in the roof. *If you are detailing a Walthers car, remove the cast-on end roofwalk supports on the ends of the car.* Cut out drill template on outline. *The small end tabs are for the Walthers car and help locate where to drill for the new end walkway supports.* There are two different inner cutouts on this template. The center most rectangle is to fit the Walthers car and the next inner rectangle must be cut out to fit over hatch and brackets of Proto 2000 roof. For Proto 2000 car, roof should be installed for the template to properly line-up. Tape template to roof of car. All corners should be even. Using the supplied "T" pin, press a drill pilot point in each "+" tic mark on the template. Remove the template and using a #78 drill bit, drill a hole in each of the pilot points.

Preparing Walthers car for brake platform

Carefully remove the plastic brake platform from the end of car leaving only a small "lip" of the old platform on the car. This remaining "lip" can be used to glue the new brake platform to. Trim small stainless platform apart to match diagram on back of instructions. Position mounting pads of platform on top surface of "lip" (where old platform was located) and cement in place.

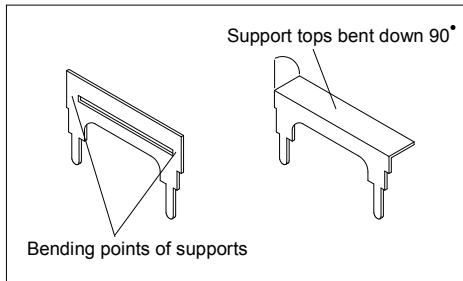
Car Assembly

With the roof drilled and ready for assembly, it is best to assemble the car first per manufactures instructions and add any other details you feel are needed. On Proto 2000 car, add stainless steel coupler platforms when instructed to. These install in the same manner as the plastic ones, just trim from walkway to match diagram on back, insert mounting pins into holes and CA in place.

Adding of new walkway supports

The new walkway addition will start with new brass walkways supports. There are two sizes of supports. Four of them (#B2) are slightly longer than the others and the legs are the same length. These four support the end portion of the main walkway (see diagram). Trim supports from framework as close to outer framework as possible. The longer the mounting pins on the supports the better. It may be hard to see but on the 30 smaller supports (#B1), **THE LEGS ARE A DIFFERENT LENGTH.** You will need to keep this leg length in mind as you begin to form the supports. The

top portion of these supports will need to be bent 90 degrees. Half (15) of the supports will be bent to the left and half (15) to the right. Separate supports into two groups, one left bent



and one right bent. Starting at one end, position a riser #B1 mounting pins in the previously drill holes, longer leg to outside and its support top pointing to opposite end of roof. Continue adding all #B1 supports pointing to the same end of roof. The last #B1 support on each side will need to point in the opposite direction of all the other #B1 supports. Add supports #B2 to the ends of roof with tops pointing in toward center of roof (see diagram below). Straighten all supports and CA to roof.

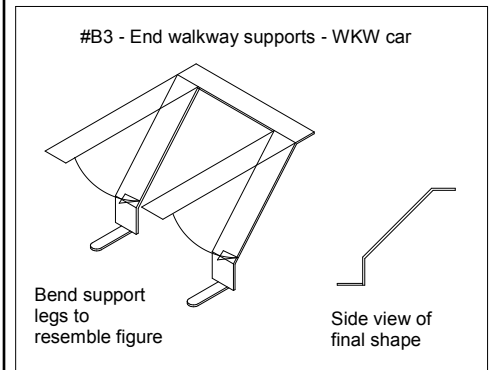
At this time, you may want to paint the car or touch up the paint on added details if you are working with a car that is already painted.

Adding new walkway to roof

Finally it is time to add the new stainless steel walkway. First there are a couple things you will need to do to it. The corner laterals (note the etched 'lips' on the edges of the walkways are the top side) need to be bent down very slightly to match the angle of the plastic walkways. Using an imaginary line that continues from the main walkway across end walkway (see drawing on back), use a couple pair of needle nose pliers and slowly bend down lateral to match angle. Next, on these laterals you should see very small legs sticking out at the corners. Carefully use a pair of tweezers to bend these legs down 90 degrees. If you have bent the side lateral down far enough, these legs will rest against the roof and hold it at the correct angle.

If you have bent it to much, carefully correct the angle or you may have trouble getting the walkway to rest on the supports. You may need to adjust slightly. Set walkway on the supports and center it so it sits equally on all supports. When satisfied with the placement, CA in place with small amounts of CA between walkway and support tops.

WKW Car - When walkway is securely attached, bend brass end walkway support (#B3) to match that of the diagram below. Place mounting pins in holes (drilled with the aid of that little tab



sticking out from template) and top of support against walkway. Adjust to your satisfaction and CA in place. Repeat on the other end of the car.

This should complete the walkway details. The prototype walkways are often an unpainted galvanized metal so an overspray of a flat clear paint should give a prototype look to the model. Finish car to your satisfaction.

We hope you enjoyed adding our product to your Walthers or Proto 2000 4427 PS-2CD covered hopper. If you would like to know what other products we have to offer, please see your local dealer about our growing line of photo-etched products or visit www.planomodelproducts.com. Thank you and happy modeling from **Plano Model Products!**

