

Instructions for adding Plano Model Products-Trinity Style Roofwalk-Kit #082 to InterMountains PS 4750 Cu. Ft. Covered Hopper

Plano Model Products Trinity Style Roofwalk is designed to replace the standard plastic roofwalks on the InterMountain 4750 Cu.Ft. P.S. Covered Hopper model giving you a variation of roofwalks for your model and the capability to match your favorite prototype. Before starting, read through these instructions carefully and familiarize yourself with them.

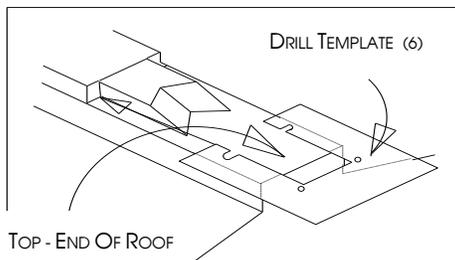
For prototype information showing these roofwalks and bolsters, see the February 1994 issue of Mainline.

A couple notes before starting. On the parts to be bent, look closely at both sides. On one side you will see small score lines. At these score lines, bend the part carefully using a pair of tweezers. *Note: these score lines are to be on the inside of the bend.* All parts are shipped held together with a framework to protect them from loss and damage. Carefully trim brass parts to match diagram and trim stainless parts as close to roofwalk as possible. **WARNING: ALL MATERIAL IN THIS KIT CAN BE VERY SHARP AND CLIPPED PIECES CAN FLY. PLEASE WEAR EYE PROTECTION!**

Preparing roof

Using a #66 drill bit, enlarge the molded in roofwalk mounting holes. **** *Please Note: We have made this kit so you can use either the molded in holes of the crossover platform or drill new ones using a brass drill template.* Either will work but drilling new holes allows for cleaner prototype fit of new parts (see optional section below). Using the supplied .035" styrene rod, plug all the enlarged holes in the roof. (Careful not to accidentally plug the holes used to add hatch hardware.) Smooth all plugged locations and allow to dry thoroughly.

(Optional) To mark where to drill holes for crossover platform frames (#4), remove the 'U' shaped drill template (#6) from brass parts and place on one end of roof straddling angled section of roof. You will see two small holes and two cutouts on the inside edges of the template. Using a #78 drill bit, drill new holes on both ends.

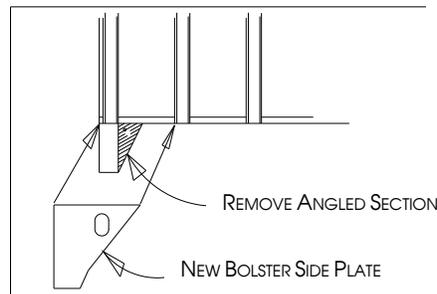


Perform Steps 1 & 2 of the InterMountain instructions (without the roofwalks) and allow to dry. Cut out paper drill template on small dashed lines and fold on the long dashed line. Tape template to the roof of the car so the ends are even and the folded edge of the template is against the raised hatch rib running down the center of the car. Using the supplied "T" pin,

press a pilot point in the center of each "+" tic mark on the template. The top tic marks may be a little tough to get. As long as you get the top mark in line with the lower mark and in the center of the curve where the rib curves down, the risers should line up. Remove the template and using a #78 drill bit, drill a hole in each of the pilot points. Repeat on the other side of the roof. (*tip: to make template more rigid, attach template to a piece of .010" thick styrene and use the styrene as a template.*)

Building new bolsters

Carefully remove the angled section of plastic bolster side plates and remove paint from remaining bolster side plate area. Position a new brass bolster side plate (#5) on old plate, edges even, and liquid cement in place. Next cut the .080" X .125" styrene to four lengths of .375"

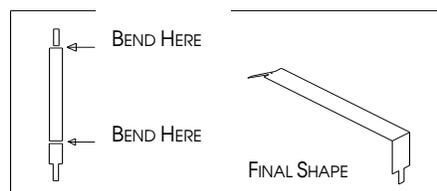


and cement between bolster (part f) and the brass bolster side plate (#5). Cut the .015" X .156" styrene to four lengths of .400", center one on each of the .080" x .125" styrene pieces and cement in place. These pieces should be against part f and extend slightly past bottom edge of bolster side plate.

Building car

Assemble the rest of the car per InterMountains instructions EXCEPT: when adding the end coupler platforms. Our coupler platforms lock in behind ladder sections using the little hooks on the platforms. Angle platforms in to get hooks behind appropriate ladder frame, set down in place and cement in place.

Addition of the new parts for the roofwalk will begin by adding new risers. There are three different risers used in this conversion. Risers (#1) and (#2) are the same length but different widths and riser (#3) is slightly longer. Remove risers from their framework and look closely at both sides. On one side you will see a score line dividing the riser into two sections. At this score line, bend the short leg down 90 degrees leaving you an "L" shaped riser. On the paper template you should have noticed



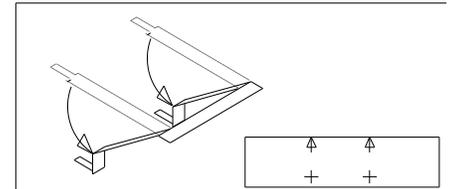
lines between the tic marks and numbers next to the lines. The line designate the direction of the risers on the roof and the numbers specify which riser to use. With these directions and numbers in mind, position the mounting pin on the long leg of the riser in the top hole and bend the riser down placing the short leg mounting pin in the lower hole and ACC in place. Add the risers to all holes on both sides of the roof. Also at this time, add the crossover supports (#4) to the holes on the center/ends of the roof and cement in place.

At this time you may want to paint your car if undecorated or touch up paint if car is already decorated. The roofwalks on these prototypes are usually an unpainted galvanized metal so you may not want to paint this roofwalk.

Before you add the new roofwalk to your model, first you will need to bend the ends of the roofwalk to slope up and over the center rib of the roof. At the top of View B you will see arrows showing where to make the bends. After bending you should be left with an end view of the roofwalk resembling the one above the arrows in View B.

To add roofwalk to car, center roofwalk on risers and square up to your satisfaction. When satisfied with placement ACC to risers.

After roofwalk is firmly attached to car, the end supports (#10) can be bent and installed. At the middle score lines, bend the end supports down about 45 degrees. At the end score lines, bend the short sections down another 45 degrees. The mounting pins are to be bent in 90 degrees and you should be left with a part resembling the diagram below. Using the small paper template



found next to diagram, line the arrows up with supports #4, mark a drill point in each '+' tic mark and drill #78 holes. Insert supports #10 under roofwalk and mounting pins in holes, align and ACC in place. Touch up paint and finish model to your satisfaction.

This should complete the roofwalk and bolster detail replacement. We hope you enjoyed adding our Trinity conversion kit to your InterMountain PS 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 send a #10 SSAE for a copy of our newsletter. Thank you and happy modeling from *Plano Model Products!*

VIEW B

