

## Industrial Cage Ladder Z-Scale, N-Scale & HO-Scale

**GLUING BRASS** Instant super glues, Cyanoacrylate, CA for short, are very prominent in model building today. They will work perfectly with brass, and they are instant. We recommend a thick CA glue such as “**Zap-A-Gap**” from Pacer Technology. Besides being almost instant, thick CA glues will help create a small fillet and fill small gaps when applied to the inside of joints. Using a toothpick to apply the CA glue works really well for getting the glue into the interior areas and controlling the amount of glue used.

Cut the ladder the correct length **PLUS** one the length to the next set of eyelets. This is to allow the ladder to extend beyond the tank edge. Remove the ladder rungs from the last eyelets to the next to last set of eyelets. Put the ladder aside. Cut the safety cage to the same length as the ladder **MINUS** one vertical set of bars. Your workers will need to get into the ladder cage to use it! Z = 1/4” dowel, N = 3/16” dowel, HO = 3/8”dowel. Use the appropriate dowel, tubing or rod to form the safety cage. Go a little at a time as not to distort the cage. Once the cage is formed around the dowel, remove the dowel. Begin at the next to last eyelets at the bottom of the ladder. Insert the cage pins on the sides into the eyelets of the ladder. Be sure the top of the cage extends to the top of the ladder. Secure the bottom pin, then insert the pin on the opposite side securing it. Continue the insert & secure process one set of pins at a time up the ladder.

Wash your completed assembly in warm soapy water. If it is really messed up with solder flux etc. you can clean it with a lacquer thinner first. *Do NOT bake the model if you used CA glue for construction.* One nice thing about painting on brass, if you don't like the paint job you can use paint remover to get rid of it and start again without hurting the brass. Air dry all parts. Paint the tank the desired color. Silver or White are the most often used colors. Paint the safety cage ladder and the railing International Orange. Allow to thoroughly dry.