



340 Snyder Avenue, Berkeley Heights, NJ 07922  
Tech Support: 908-464-1094, 1 pm – 5 pm ET  
MMTechService@micromark.com

## #83765 CABOOSE INDUSTRIES N / HO GROUND THROWS

Mounting Instructions for #83765  
Caboose Industries N / HO Ground Throws

Select the correct connector for your turnout(s) from those included. Insert the connector's 'T' shaped end into the mating end of the ground throw until seated and the small dimple on the top has appeared in the slidebar opening. (Note: the Atlas hook should be seated with a small tool or drill at the base of the hook.) The flat plate is a shim to raise the ground throw to tie level if needed.

This sprung stand requires a connection to the throwbar. The pin requires a .055 inch hole (#54 drill) and depth clearance so the end does not rub. Center the handle and the switch points. Fasten the ground throw with spikes, track nails, or screws. The internal springs will take up the overtravel and maintain tension on the turnout points. The Peco spring will act as normal.

For the 117R rigid stand, no connector is required. Use a formed spring between the turnout throwbar and the stand slidebar. The hole is for .025 inch wire. One loop of spring brass wire formed around a 1/8 inch drill makes a useful spring.