



HO Structure Kit INTERMODAL YARD DETAILS 933-4124

Thanks for purchasing this Cornerstone kit. Please take a few minutes to read these instructions and study the drawings before starting. All parts are styrene plastic, so use compatible paint and glue to finish and assemble your model. You may find it easier to assemble and paint some larger parts as subassemblies, while smaller items can be painted on the sprue for ease of handling and touched up after final assembly.

As some of the most important traffic on today's railroads, the constant movement of trains, trucks, trailers and containers has led to continuous upgrades of intermodal terminals to speed operations and increase safety. While much of the area is paved with concrete to support heavy traffic, many railroads operate both lightweight all-terrain (ATV) and heavier utility terrain vehicles (UTV) for a wide range of chores. While these vehicles can access areas that are otherwise impractical or impossible for trucks, they still need to safely cross active tracks, using much smaller, purpose-built grade crossings. Solar-powered switch machines are another recent addition to many intermodal hubs. While "bending the iron" has been a part of railroading since the beginning, manually operated switch-stands may require a great deal of effort to move the points, as well as bending and lifting that can all result in injuries. While electrically powered switch machines are used, they require easy access to a power supply, which may not be readily available or difficult and expensive to install and maintain. Solar-powered switch machines offer an ideal alternative for many locations. These units include a motor drive and gear train to do the heavy work, with power supplied by a storage battery, which is constantly charged using a solar collector. Operation is also simplified by using electrical pushbutton switches mounted in a weather-proof control box. Your new model makes it easy to add these details to a large intermodal or classification yard, and similar switch machines are also being installed in remote locations along main and branch line tracks as well. For additional intermodal accessories, figures, vehicles, railroad equipment and more, see your participating dealer, check out the latest Model Railroad Reference Book or visit us online at walters.com.

Switch Machine Assembly

Parts are included to make eight nonworking switch stands, which assemble as follows:

- 1) PLEASE NOTE - for turnouts with short head ties, optional Long Head Ties (6) are provided for more side clearance and realism. If used, align and glue ends of head ties together. For turnouts with long head ties, begin at step 2.
- 2) Determine how much side clearance may be needed for your installation; glue Motor Drive (1) to end of head ties as shown.
- 3) Target Indicator (2) may be glued to show the through or diverging route; you may wish to paint this part (yellow and green are common, but your prototype may use other colors) and position it as a reminder to your crews of how the turnout should be aligned.
- 4) Note the correct position of Support Rod (3) with the raised ring at top. Glue Rod to opening at back of Motor Drive.
- 5) Solar collectors are aligned to face direct sunlight, so you may wish to position these parts to line up with your room lighting, a typical installation is shown. Glue Solar Array Bracket (4) directly above the raised ring on the Support Rod and allow to dry. Note the alignment pins on back of Solar Collector (5); position this part with the widely spaced pins at the bottom and narrowly spaced pins at top as shown. Glue lower pins to Bracket and upper pins to Support Rod as shown.

UTV/ATV Crossings

1) PLEASE NOTE - Parts are included for eight each 90-, or 30-degree Right and Left crossings. All parts are a scale 10' (3m) wide, however the Left and Right installations appear wider because of the angle. All three crossings are the same actual length of 1-5/8" (4.2cm) as measured at right angles to the track. As these parts fit between and alongside the rails, make sure cars and locos will pass safely over them, adjust if/as needed before the glue dries.

1A) 30-Degree Left Angle Crossing

NOTE: these parts appear to be standing upright as they angle away from you, but will be installed flat. Glue Center Section (11) between rails. Align Outside Sections (2x 11) with center sections and glue to outside edges of rails and ties.

1B) 90-Degree Straight Crossing

Glue Center Section (9) between rails. Align Outside Sections (2x 10) with center sections and glue to outside edges of rails and ties.

1C) 30-Degree Right Angle Crossing

NOTE: these parts appear to be standing upright as they angle away from you, but will be installed flat. Glue Center Section (7) between rails. Align Outside Sections (2x 8) with center sections and glue to outside edges of rails and ties.

