



HO Structure Kit
**TRACKSIDE
SIGNAL TOWER**
933-3556

Thanks for purchasing this Cornerstone kit. Please take a few minutes to read the instructions and study the drawings before starting construction - if you're not sure how parts go together, test fit before gluing! Most parts are styrene plastic so use compatible glue (such as Faller Expert liquid plastic cement with needlepoint applicator bottle #272-110492, sold separately) and paint to assemble and finish your model. You may find it easier to first assemble larger parts and paint them as subassemblies, while smaller parts can be painted on the sprues and touched up after installation. If you wish to paint your model, wash all parts in warm water and plain dish soap, rinse thoroughly and allow to dry before painting. Carefully scrape or sand paint from edges to be glued.

From the 1850s to the 1980s, two- and three-story interlocking towers were an important part of moving trains swiftly and safely through junctions, crossings with other railroads, across drawbridges, and through freight yards and passenger terminals. At the heart of each was a mechanical interlocking machine, custom-built for that location to operate switches, signals, locks and derails along specified routes. The machines consisted of a series of large levers (roughly shoulder-height) located on the top floor, which provided the operator a clear view of the tracks and approaching trains. Each lever would be pushed or pulled into position and the corresponding motion transmitted to the trackside device through a series of bell cranks and steel rods. Each lever was also connected to an internal grid of metal bars - each route had to be set in a correct sequence - which slid into place and automatically locked out any other levers to prevent unsafe movements. In later years, pneumatic and electrical controls were used in place of these more complex manual systems. With the widespread adoption of Centralized Traffic Control (CTC) and better communication systems, railroads often replaced and combined the functions of several towers inside one centrally located tower. Many were eventually torn down, while others were boarded up but left standing to house relays and other equipment. While some have been preserved by museums and railfans, a handful remain in operation in the United States and Canada in the 21st century. Your new model is typical of wood-framed towers found all across North America throughout much of the 20th century, along railroads large and small. For additional items such as track, railroad equipment, vehicles, figures and scenery supplies to complete your installation, stop by your local hobby shop, check out the current Walthers Model Railroad Reference Book, or visit us online at walthers.com.

Window Glass

1) Align inset areas on clear "glass" pieces over pins on backs of Walls as shown. We suggest using white glue (PVA), or canopy glue to secure these to avoid damage.

1A) Front Wall (2); Large Glass (6).

1B) Right Sidewall (3): lower level Transom Door Glass (17), Single Glass (7).

1C) Left Sidewall (4): upper level Double Glass (8), lower level Single Glass (7).

1D) Rear Wall (5): Single Glass (2x 7)

Main Assembly

2) Align locator pins on bottoms of Front (2), Right (3) Left (4) and Rear (5) Walls with raised ridges and openings in Base (1); align tabs and slots on backs of Walls and carefully glue where parts meet.

Stairway

3) Glue Support Brackets (2x 14) to inset areas on underside of Platform (9) and allow to dry. Align mounting pins on inside of Brackets with inset area below doorway on Right Sidewall (3), with top step of Platform on top of molded bracket as shown, and carefully glue where parts meet.

4) Align mounting pins on lower edge of Stairs (12) with opening in Base, and upper end below top step of Platform, and glue in place.

5) Align tabs on top inside edge of Large Handrail (13) as shown, even with and below top step on Platform; insert lower handrail post and support column into openings in Base. When satisfied with the alignment, glue in place.

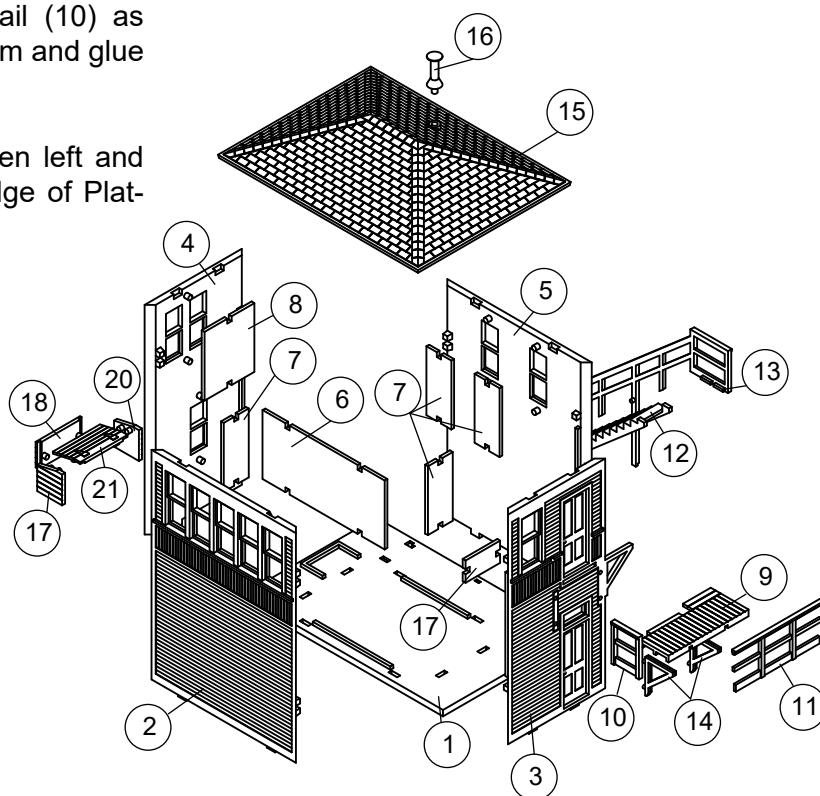
6) Align tabs on inside edge of Left Handrail (10) as shown, even with and below left side of Platform and glue in place.

7) Align inside edges of End Rail (11) between left and right Handrails as shown, even with lower edge of Platform. Glue in place where parts meet.

Final Assembly

8) Align inside edges of Coal Bin Right (17) and Left (20) Sidewalls with inset slots on inside edge of Coal Bin Front (18) as shown, and along raised ridges on left of Base. Glue at inside edges where parts meet. Align Coal Bin Lid (21) as shown and glue to top of Bin assembly.

9) Insert pin on bottom of Smokejack (16) to opening in Roof (15) and glue where parts meet. Completed Roof may be set in place to add interior details or lighting (sold separately), or glued in place as desired.



SIGNS

To mount signs, simply cut the desired name and, using a small drop of white glue on the back, glue it in place.

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