



HO Structure Kit

MODERN COMMUNICATION TOWER

933-3345

Thanks for purchasing this Cornerstone kit. Please take a moment to read these instructions and study the drawings before starting - if you're not sure how parts go together, test-fit them before gluing! PLEASE NOTE: This kit is made of reinforced ABS plastic; use compatible glue to assemble your model. Most model paints can be used if desired.

While the telephone quickly moved from novelty to necessity, the arrival of cell phones in the late 20th century completely changed how people use them. As a form of two-way radio communication, the first practical application came in 1969 with construction of a trackside support network and installation of specialized pay phones aboard Penn Central's Metroliner trains. While the equipment has evolved since, the basic principals are the same as these low-power systems conserve bandwidth and re-use frequencies across a relatively small area. This requires a local antenna to receive and send signals, commonly known as a cell. Additional cells are created forming a network to expand service coverage over wider areas and allow for smooth transition as mobile users are automatically handed off to new cells. The towers themselves are placed near the edges of cells, and fitted with multiple directional antennas operating on various frequencies. These towers are essentially large steel poles, so the actual amount of space needed for a typical installation is quite small. The site usually includes some kind of electrical gear, and is fenced off. Because they can be quite prominent, some cities have placed restrictions on the towers, requiring they blend in with their surroundings. Some have actually been camouflaged to resemble native trees, painted in various colors or placed in such a way they appear to be part of a nearby structure. A must-have for contemporary layouts, your new model is designed for easy construction and installation in new or existing scenery. A complete site can be modeled with the Cornerstone Electrical Gear (#933-4075) and Chain Link Fence (#933-3125) kits, both sold separately. For additional figures, vehicles, scenery materials and more, see your participating dealer, check out the current Model Railroad Reference Book or visit us online at walthers.com.

Lower Standoff Array

Align mounting points on Small Antenna (3x 105) with pins on edges of Lower Bracket (104) and glue where parts meet.

Upper Platform

PLEASE NOTE: Each edge of Platform (100) has raised locator points to align antennas; while Antennas (101, 102, 103) look alike, they are different so do not remove parts from sprues until needed.

Center/Front Edge as shown: from left to right, align and glue Large Antenna (101), Medium Antenna (102) and Large Antenna (101) in place.

Left Edge: from right to left, glue Large Antenna (2x 101) to outer and middle points, glue Medium Antenna (102) to end point.

Right Edge: from left to right, glue Small Antenna (103) to outside point, Medium Antenna (102) to center point, and Small Antenna (103) to end point.

Carefully slide open center of Lower Bracket over top of Mast (51) until it rests on the Mast. Align the Lower Array with each antenna in a straight line and carefully glue assembly to Mast.

Align open area on underside of Upper Platform with top of Mast. Align each antenna in a straight line, and carefully glue assembly to mast.

Repeat these steps for the second tower.

Towers can be located at any convenient spot on your layout, however we suggest drilling a mounting point and insert - don't glue - the tower in place. This allows for easy removal for maintenance, and while the model is made of reinforced ABS to resist bending, a loose mount will further reduce the chance of accidental breakage if bumped.

