



HO Structure Kit TRUCK & RAIL SCALE

933-4068

Thanks for purchasing this Cornerstone kit. All parts are styrene plastic, so use compatible glue and paint to assemble and finish your model. Please take a few minutes to read these instructions and study the drawings before starting.

Every day, billions of tons of freight move on the world's railroads and highways. Knowing the actual weight of their cargo is a key part of the job, as carriers bill customers for their services based on weight; shippers and receivers use the information to record how much material was purchased or sold, and it's essential information to prevent damage to equipment and ensure a safe routing. For railroads, accurate cargo weights are also critical in determining maximum train lengths and locomotive assignments, and reweighing cars is a regular part of maintenance. While scales big enough to do the job have been part of the transportation industry for decades, modern installations still resemble their earlier counterparts. The most visible portion is the weighbridge supporting the vehicle, but most of the machinery is actually below ground in an access pit. In operation, vehicles can be stopped or weighed in motion to determine how much weight is carried on each axle (axle weight) and the combined weight of all axles (gross weight) is then compared to the empty (tare) weight of the vehicle. Electrically powered scales began replacing more complex mechanical types in the 1950s, measuring changes in resistance to calculate weight, and updated versions are used in modern installations. Many still have a scale house nearby, housing recording equipment and providing a workspace for the operator. Built facing the scale, large windows provide a clear view along both sides and the front, with spotlights for nighttime operation, and speakers so the operator can communicate with drivers or train crews. Scales big and small are found at many producing and receiving industries today, while railroads typically locate their scales near classification yards and shops. Truck scales can also be found at many large truck stops, and are typically located near state borders along major highways to verify weight for taxes and safety purposes. As part of the Cornerstone Modern Industrial Park series, the various types of scales and accessories in your new model can be used together, or as freestanding details in a variety of settings. To bring your new model to life with figures, signs, vehicles and more, see your hobby shop, check out the latest Walthers Reference Book, or visit us online for information about the complete Walthers ModernIndustrial Park series at walthers.com/MIP.

PLEASE NOTE: Acetate is provided for windows, cut pieces slightly larger than openings in windows and doors, and glue from the inside with a small amount of white glue.

Large Scale House

1) Note the inset area on the Base (12); use raised ridge to align parts, and glue Entry (16) Left (14), Right (15) and Front (13) Walls to Base and at inside corners where edges meet.

2) Glue Gutter (18) to back edge of Roof (17). Glue Downspout (19) to Gutter and to mounting points on Right Wall (15). Roof may be set in place if you wish to add interior details or lighting (both sold separately), or glued in place.

3) Glue inset area on back of Speaker (26) to Bracket (27) as shown. Spotlights (25) and speaker assembly can be glued at any point along top edge of Front Wall.

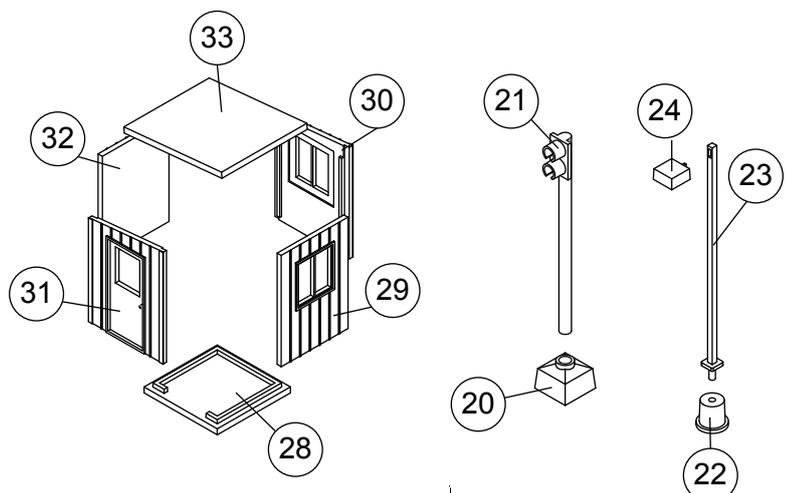
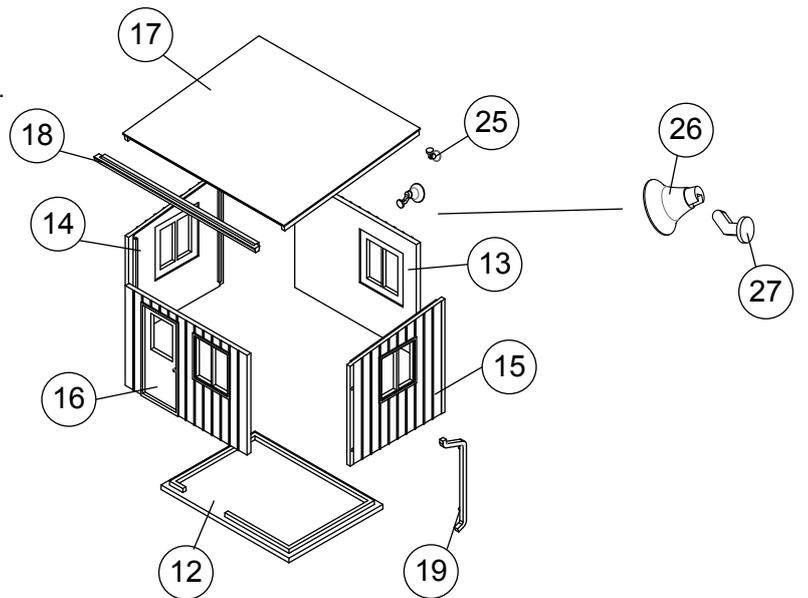
Small Scale House

4) Note the inset area on the Base (28); use raised ridge to align parts, and glue Front (29), Left (30), Right (31) and Rear (32) Walls to Base and at inside corners where edges meet.

Accessories

5) Traffic Signal: Glue Signal (21) to open area on top of Base (20).

6) Streetlight: Glue Pole (23) Base (23). Glue tab on back of Lamp (24) to inset area on pole.



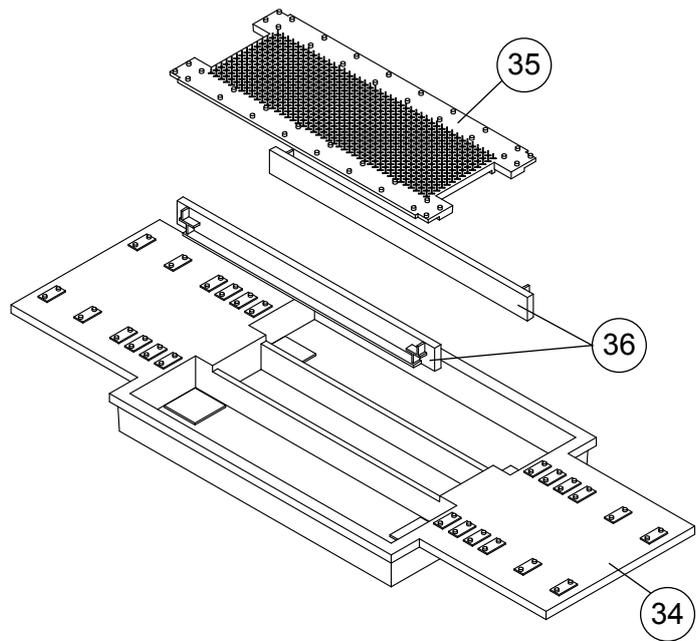
Track Scales - make two as follows:

7) PLEASE NOTE: Install Girders (2x 36) facing outward with details on lower edge as shown. On the underside of the Weighbridge (35), note the raised pads running the full length and alignment ridges at left and right of center. Align top edges of Girder on pads and alongside ridges and glue together.

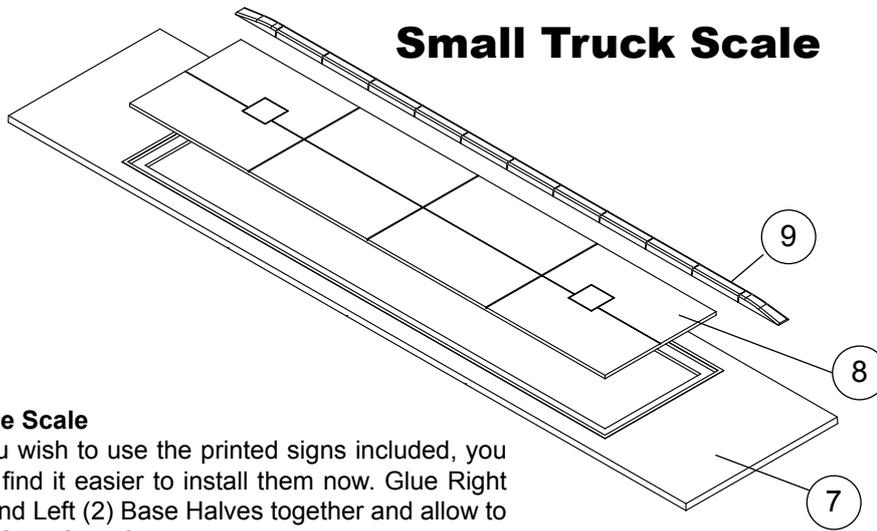
8) Glue completed weighbridge assemblies to raised middle supports of Pit (34).

9) The two sets of raised mounting points on the top of the Weighbridge and Pit assembly will accept rail or sectional track (both sold separately). To install sectional track, remove ties to fit, align rails and glue in place with a CA-type adhesive.

Rail Scale



Small Truck Scale



Truck Scales

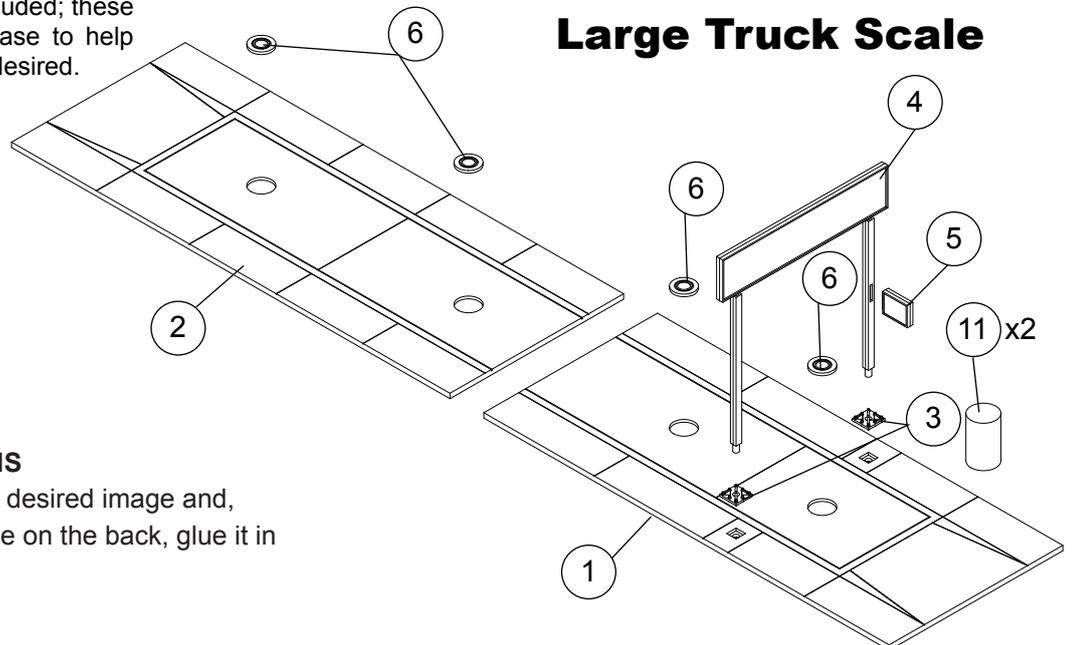
10) PLEASE NOTE: To customize either scale for a smaller space or for use with shorter wheelbase equipment molded cut lines are provided on the Curb and undersides of the Base and Weighbridge of the Small Scale, and the underside of the Base/Weighbridge for the larger version.

Small Scale

Make sure the raised detail on the Weighbridge (8) faces upward, and glue to inset area on Base (7). Carefully align one or both Curb/s (2x 9) along outside edge as desired, and glue in place.

Large Scale

If you wish to use the printed signs included, you may find it easier to install them now. Glue Right (1) and Left (2) Base Halves together and allow to dry. Glue Sign Supports (2x 3) to inset areas on Right Base (1) as shown. Glue Readout Panel (5) to Inset area on Sign (4) as shown, and glue completed Sign to Supports. Glue AccessCovers (4x 6) to insets on Base. As shown on the box photo, optional Buffers (2x 11) are included; these can be glued at either end of the base to help direct vehicles on and off the scale if desired.



Large Truck Scale

SIGNS

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