



HO Structure Kit

DIESEL FUELING FACILITY

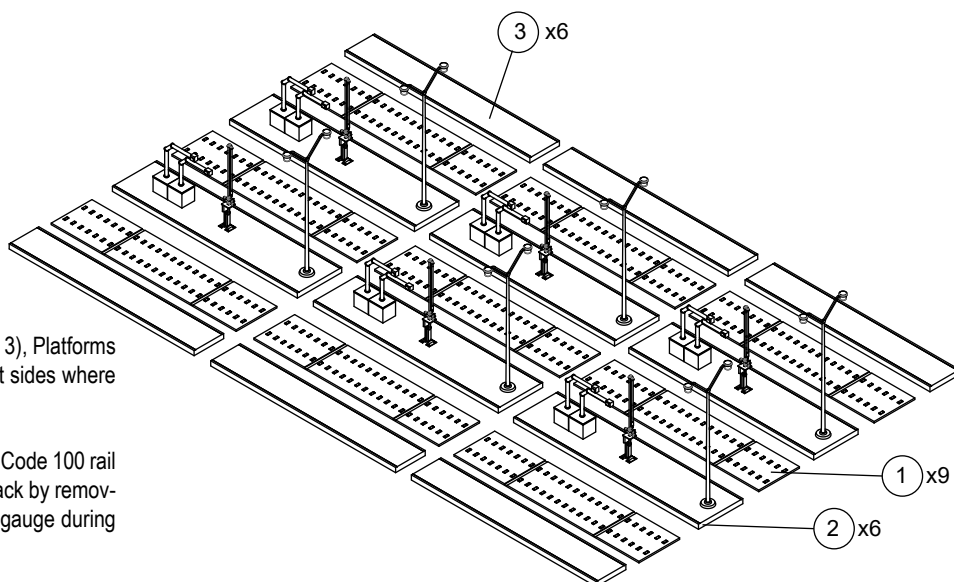
933-4161

Thanks for purchasing this Cornerstone kit. Please take a few minutes to read these instructions and study the drawings before starting construction - if you're not sure how parts go together, test fit before gluing! All parts are styrene plastic so use compatible glue and paint to assemble and finish your model. You may find it easier to 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. Your new model includes parts to build a typical three-track fueling pad, however the flexible design makes it easy to customize a smaller or narrower installation, and additional kits, each sold separately, can be combined for a larger facility. PLEASE NOTE: This kit includes some optional parts that will not be needed for construction: these may be kept for future projects or discarded if desired. Nonworking Lights (6x 18) are included, but optional Base Plugs (21) are provided for installation of SceneMaster™ Working Double-Arm Tear Drop Streetlights (#949-4313, sold separately) if desired. Grooves in the Collection Pans (9x 1) may be used with WaltherTrack® Code 83 (#948-83000) or Code 100 (#948-100000) Flex Track, or Code 83 (#948-83000) or Code 100 (#948-10000) Bulk Rail each sold separately. For ease of assembly and layout installation, you may wish to have these parts on hand before starting assembly.

While the basic needs for fuel, water and sand were similar, railroads quickly discovered they needed purpose-built facilities to service their then-new gas-electrics and diesels. Requiring far less maintenance and offering a much higher rate of availability, diesels also began to change how railroads operated. Engines were no longer changed at each division point, remaining on the train for the entire trip, and newer designs also had much larger fuel tanks extending their operating range. This also allowed crew changes and inspections to be done on the main line, and by the 1970s, separate fueling facilities for run-through trains were being installed on the main. As technology and operations have continued to evolve, railroads have also updated their fueling facilities, creating the modern fueling pad. Designed to expedite refueling, they're often located at the entrance and exit to major yards so the work can be completed without disrupting through trains or switching operations, but facilities can also be found on main lines. A typical installation features multiple tracks branching off the main running between and alongside service platforms, which allows through trains to pass. Each platform is equipped with multiple pivoting fuel cranes, and lube oil and cooling water cabinets, equipped with extended booms, or standard types with retractable hoses, as well as overhead lighting. These are positioned so that multiple engines can be serviced at once regardless of the direction of travel. These locations are also ideal for crew change points, and some minor maintenance, such as cleaning the windshield can also be done while refueling is in progress. While many of these facilities are open, some are partially enclosed to provide protection for workers from the weather. At terminals where trains originate and terminate, and assigned engines are serviced for yard and local work, many railroads have installed a dedicated fueling pad alongside an engine house; similar facilities are found at the main terminal of short line and industrial roads. These use the same types of cranes and cabinets, but as there's more time available, these facilities take care of additional chores, such as servicing toilets, filling sand boxes and more. An important but less visible part of any refueling facility, are nearby diesel fuel storage tanks. While capacity is determined by the typical number of engines serviced in a 24-hour period, with a reserve supply in case of emergencies, these can range from a single large tank to three or four smaller ones. Fuel may arrive by rail, road or pipeline, with underground piping supplying the fueling pads. These tanks are well maintained and marked to indicate the capacity and type of fuel; many also sport safety reminders, HAZMAT information and company logos. With its flexible design and detailed parts, your new model is perfect for modeling any type of fueling pad from the 1980s to the present day. As a freestanding operation, parts from the Intermodal Yard Details kit (#933-4124) can be used for additional realism. The kit is easily adapted to an engine terminal scene, and will look great alongside the Diesel House (#933-2916), or 130' 2-Store Diesel Engine House (#933-2923) at a larger terminal along with the Diesel Sanding Tower (#933-4160). It can also be used with either the Single- (#933-2985) or Double-Track (#933-2986) Modern Engine House kits for an outlying terminal or short line facility, all sold separately. Fuel storage tanks can be modeled with the Wide (#933-3167) or Tall (#933-3168) Oil Storage Tanks, or using parts from the Truck-Served Fuel Distributor (#933-4038) or Trackside Oil Dealer (#933-4059), each sold separately. For additional locomotives, figures, scenery materials and more to complete your scene, see your participating dealer, check out the current Walther's Model Railroad Reference Book or visit us online at walther's.com.

Before Starting Construction...

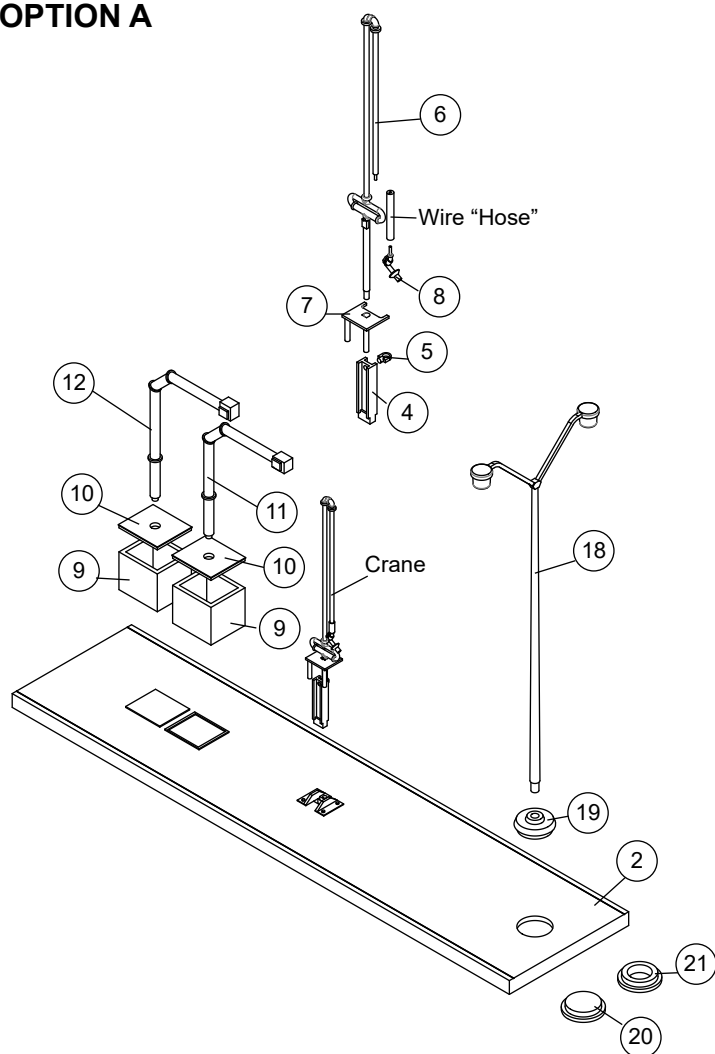
This kit can be assembled in multiple ways; the drawing and the box photo show a typical three-track facility, but parts can easily be arranged for longer or narrower installations. If you are planning to customize your model, we suggest laying out the platforms, walkways and collection pans to determine an assembly sequence that works best for you.



Refer to the overall sketch: align edges of Walkways (6x 3), Platforms (6x 2) and Collection Pans (6x 1) as shown, and glue at sides where parts meet.

Grooves in the Collection Pans (9x 1) accept Code 83 or Code 100 rail (sold separately). You can use bulk rail, or modify flex track by removing the ties from the middle; be sure to check the track gauge during installation.

OPTION A



1) Fuel Cranes

Insert pin on Pivot (5) to opening in Support (4) as shown and carefully glue in place. Align Platform (7) as shown, and glue to top of Support. Insert mounting pin on lower end of counterbalance on Crane (6) through opening in Platform; glue to Pivot. Wire is supplied for the hose connection; cut each piece approximately 7/16" (11mm) long. Carefully pull the wire out of the insulation; insert mounting pins on lower portion of Crane, and upper portion of Nozzle (8) at top and bottom of insulation as shown, and glue where parts meet. Repeat for remaining Fuel Crane assemblies. Glue completed Fuel Cranes to molded mounting points on Platforms (2) as shown.

2) Water and Oil Cabinets

PLEASE NOTE: Two styles of cabinets are included; choose one and follow the appropriate steps. On the prototype, the taller boom style is used where additional height and reach are required, while the lower cabinet type is equipped with retractable hoses. Both are color-coded to indicate what they're used for; boom style cabinets are painted a solid color overall, while the ends of the connectors are painted on the cabinet type. Typically red, yellow or orange is used for lube oil and blue for cooling water.

2A) Boom Style

Glue Cover (10) to Cabinet Base (9); insert and glue Long Boom (12) for Lube Oil, and Short Boom (11) for Cooling Water through cover and glue where parts meet. Glue Lube Oil Cabinets to raised pad and Cooling Water Booms to raised ridges on Platforms (2)

2B) Cabinet Style

Glue Left (13) and Right (14) Cabinet Halves together. Glue Water (2x 15) and Oil (2x 16) Connectors to left and right openings at front and back as shown. Glue cabinet assembly to Support (17). Repeat for remaining cabinets. Glue Support to inset area between raised ridges on left of Platforms (2).

3) Overhead Lights

PLEASE NOTE: While the box photo and the overall assembly drawing show six lights installed on the Service Platforms (2), lights on prototype installations are spaced farther apart; insert and glue Blank Plugs (20) to openings in Platforms to fill any locations where lights won't be installed.

3A) Nonworking Lights

Insert and glue Nonworking Light Mounts (6x 19) in Platforms where desired. Insert and glue lower pin on Nonworking Lights (6x 18) into opening.

3B) Optional Working Lights

Working platform lights can be modeled using SceneMaster™ Tear-Drop Street Lights (#949-4313, sold separately). To simplify wiring, position the Service Platforms on your layout and mark the location of each lamp. Follow the instructions included with the lamp for wiring and assembly. Insert and glue Working Light Mounts (6x 21) in Platforms where desired, and install lights.

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OPTION B

