



HO Structure Kit **CHOCOLATE FACTORY**

933-4166

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 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. PLEASE NOTE: Some extra parts are included that won't be needed for construction; these can be kept for future projects or discarded as desired.

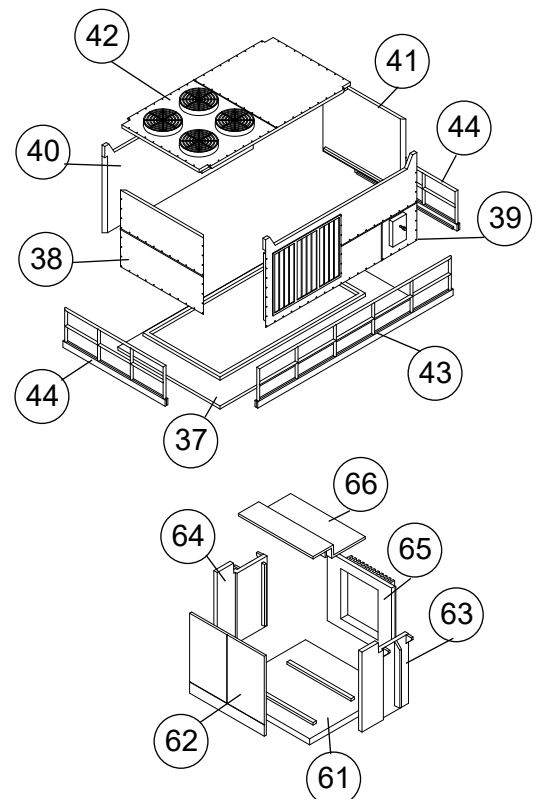
With a history that stretches back some 3,000 years, chocolate in all its many forms remains one of the most popular food products worldwide. Along with candy found in almost any checkout lane, chocolate is also a key raw material for many other businesses, produced by smaller regional chocolate makers. While demand is enormous, only a handful of countries along the equator have the conditions needed to grow the trees that produce cacao pods. The pods are then processed to remove the cocoa beans - roughly 20 to 50 per pod, with some 400 needed to make one pound of chocolate - harvested, dried and graded before shipping in bulk, in bags or in 20' containers. On arrival, the beans are cleaned and roasted to remove the "nibs" from the beans, which are ground into a paste that produces cocoa powder and cocoa butter under pressure. Blending with sugar, milk, and cocoa butter produces various types and flavors of chocolate. The next step involves heating, stirring, mixing and aerating the mixture to make it smooth. Finally, the chocolate is heated and "tempered" to stabilize the cocoa butter that gives the product its shiny surface and smooth texture. Molded and packaged (typically in large blocks), the finished product is ready to ship to the next user. Depending on what's being produced, these operations may also receive carloads of corn syrup or sugar, nuts including peanuts and almonds, coconut, raisins, rice (which is heated in vegetable oil and crisped like popcorn), and flavoring extracts, such as mint. Because chocolate doesn't like heat, the finished product is shipped in bulk aboard refrigerated rail cars, containers or trailers. Perfect as a stand-alone operation or as a newer part of a larger complex, your finished model can also be home to all kinds of industries. For additional railroad equipment, vehicles, scenery and more, see your participating dealer, check out the current Walther's Model Railroad Reference Book or visit us online at walthers.com.

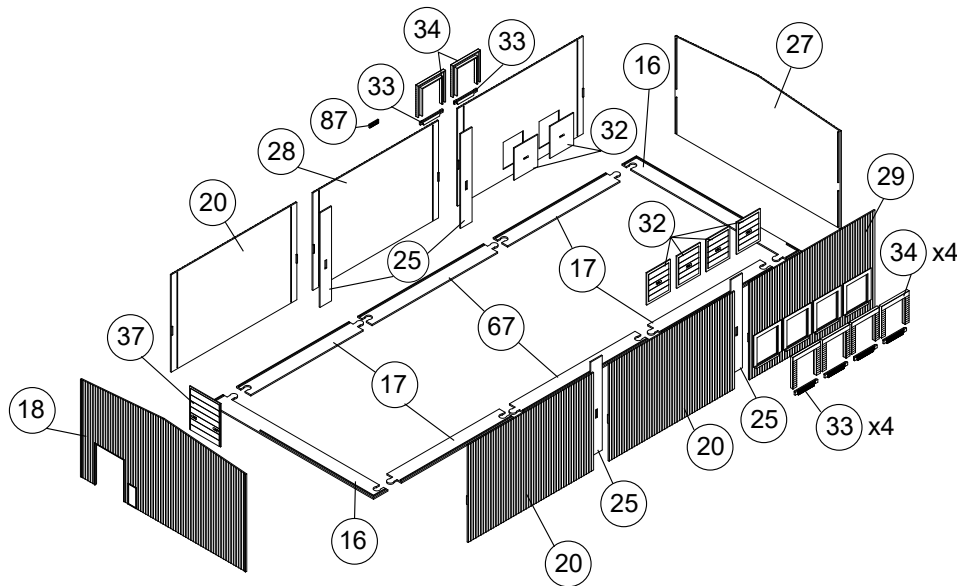
Large Roof Air Conditioners

1) Make 2: using raised ridges on Air Conditioner Base (37), align and glue angled edges on Front (39), Right Side (38), Left Side (41), and Rear (40) Walls where parts meet. Glue Air Conditioner Roof (42) to top of wall assembly. Align inset areas molded along lower inside edge of Long Front (43) and Short Side Handrails (2x 44) on edge of Base and glue together. Repeat for remaining unit.

Pad-Mounted Transformer

2) Using raised ridges on Transformer Base (61), and inside edges of Right (63) and Left (64) Side Walls to align parts, carefully glue Front (62), Sides and Rear (65) Walls to Base and at inside corners. Complete assembly by gluing Top Panel (66) to top of Wall Assemblies.





MAIN BUILDING

3) Note the tabs and slots on the End (2x 16) Center (2x 67) and Side (4x 17) Base Sections; make sure raised ridge faces up and to the outside as shown, align tabs and openings and glue where parts meet. Allow to dry on a flat surface. PLEASE NOTE: The Left Sidewall uses two sections numbered 28; the wall with two truck dock doors is on sprue #933-4140/A; the wall with personnel entry door is on sprue #933-4136/A. On a flat surface, place Left (20, 28 - Small w/Personnel Door; 28 - Truck Doors) and Right (2x 20, 25) Side Walls face down; insert tabs on back of each Wall into slots of Wall Joiners (4x 25 - two per each wall) and glue together. Allow to dry.

4) Truck Dock Doors (6x 32) may be glued in place on inside of Left (28 w/dock door openings) or Right (25) Walls, or left off to model open doors. If used, cut small pieces of acetate slightly larger than windows and glue in place from inside with white glue.

5) Glue a Dock Apron (6x 33) to Dock Seal (6x 34); glue finished assemblies to raised detail on Walls as shown.

6) Truck Entry Overhead Door (37) may be glued in place on End Wall (18) as shown, or left off to model an open door. If used, cut small pieces of acetate slightly larger than windows and glue in place from inside with white glue.

7) Align tabs on Side Wall Assemblies with slots on End Walls (18, 27) and lower edge of each wall along raised ridge on Base. Glue along lower edge and at inside corners where parts meet.

8) Each Roof section consists of a Left (21), Center (68) and Right (22) Panel; make two halves as shown. To join these sections, align assemblies at ends and centers, glue Short Roof Joiners (4x 24) to underside of each section as shown and allow to dry. Align both roof halves at center, glue a Long Roof Joiner (3x 23) underneath as shown and allow to dry. At centers where roof panels meet, glue a Roof Support (2x 90) to underside of Short Joiners as shown. When dry, align completed Roof on top of Wall Assemblies and glue where parts meet

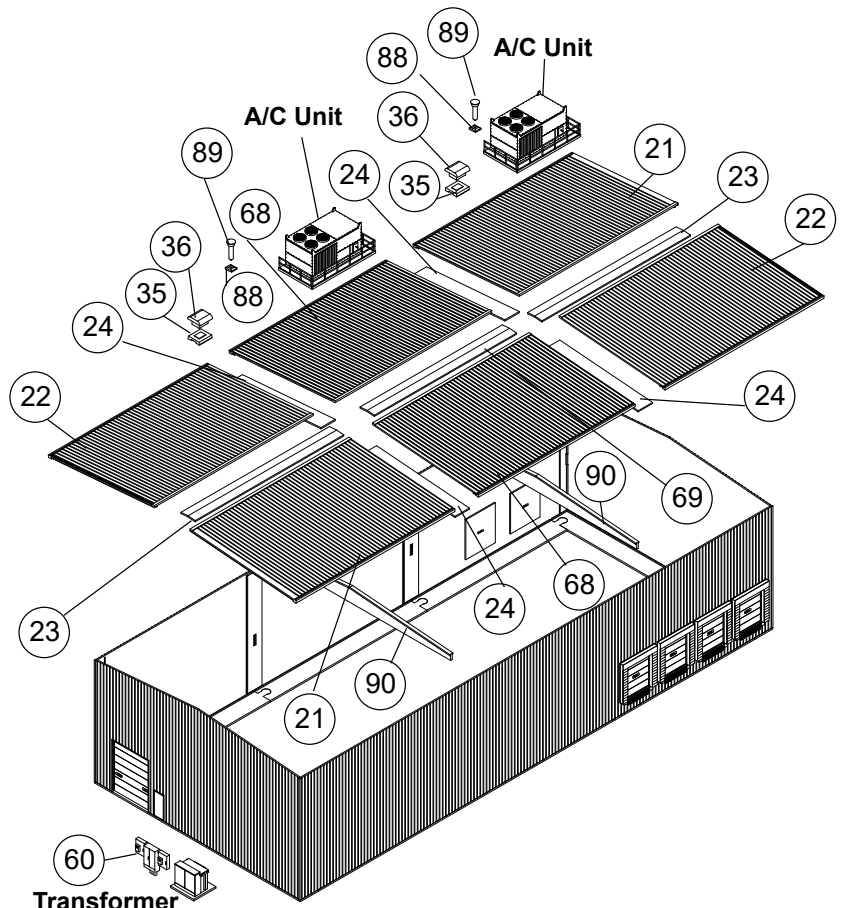
Roof Details

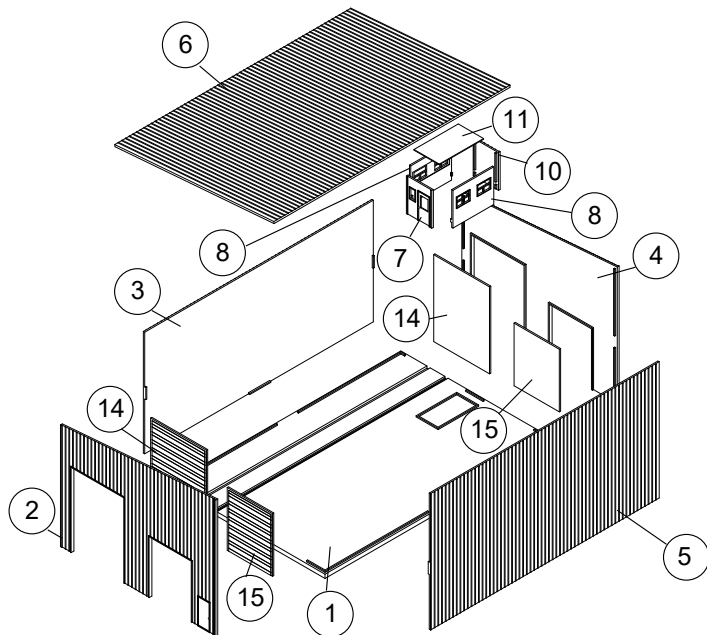
9) Finished parts can be installed on the roof at any point; illustration shows a typical arrangement.

9A) Roof Vents - make two: insert bottom of Vent (36) to inset area on Vent Base (35) and glue together.

9B) Stacks - make two: glue lower end of Stack (89) into Stack Base (88) and glue together.

10) Glue Electrical Panel (60) at any convenient location along End Wall (18).





UNLOADING BUILDING

Control House

11) Cut small pieces of acetate for glass in Front (7) and Side (2x 8) Walls slightly larger than windows. Glue in place on inside of Walls with white glue. Align tabs and slots on inside of Front (7), Side (2x 8) and Rear (10) Walls and along small raised ridge on Base (1); glue at inside edges where parts meet. Glue Roof (11) to top of Wall Assemblies.

Main Building

12) Grooves on Base (1) will accept Code 83 rail, sold separately; you can install bulk rail (such as WaltherTrack #948-83000) or remove ties from a length of flex track (such as WaltherTrack #948-83001). Secure rails to base with water-based contact cement or CA.

13) If desired Overhead Truck Doors (2x 15 - one per end) and Rail Car Overhead Doors (2x 14 - one per end) can be glued in place on inside openings of Left (2) and Right (4) End Walls or left off to model open doors. Align tabs and slots on inside edges of Left (5) and Right (3) Side Walls and End Walls, and with lower edges against raised ridges on Base, glue at inside where parts meet.

14) Align and glue Main Roof (6) to top of Wall Assemblies.

ELEVATED STORAGE TANKS - MAKE TWO:

15) With weld seams staggered as shown, glue inset areas on top and bottom of Tank Sections (103 - 4 per tank) together. Glue Cleanout (2x 104 - one for each tank) about 1/8" (0.3cm) from the bottom and centered on the lowest Tank Section panel as shown. Repeat for remaining tank.

16) PLEASE NOTE - align inset areas on edge of Roof (75) at left as shown before starting. Using raised circular ridges on Roof, align and glue Tanks in place as shown. Glue Top Section (76) to top of both tanks. Carefully align Large Ladder (80) with Large Safety Cage (81), glue where supports make contact and allow to dry. Note the alignment point on the Roof between the two tanks; glue lower end of Large ladder to this point, and upper end to center walkway on Top Section.

Tank Railings

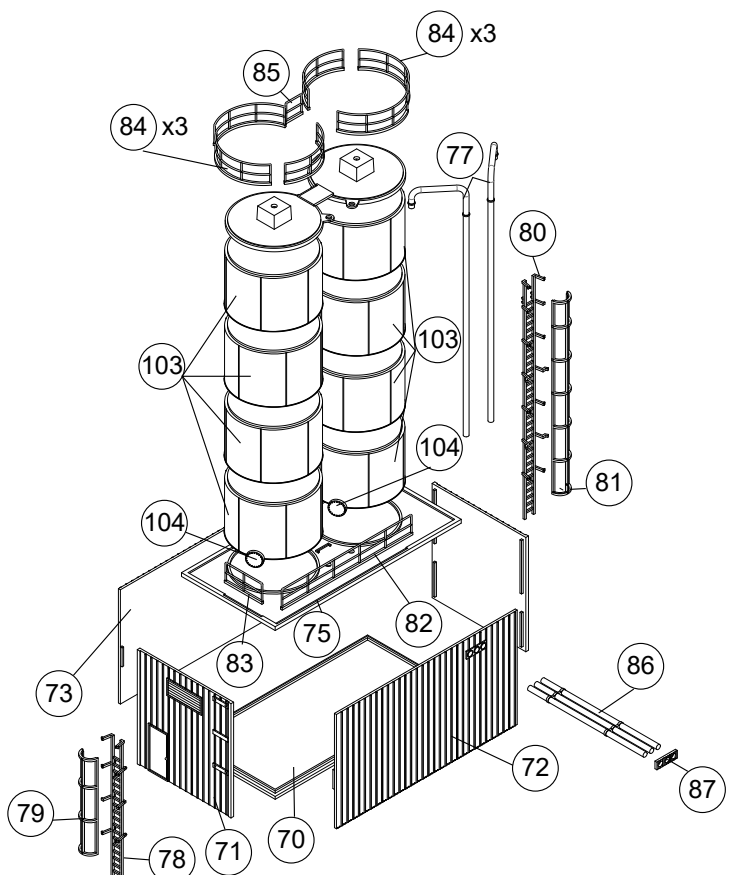
17) Starting at left rear, align and glue Round Handrails (3x 84) in place along ridge on Top Section. Glue Rear Center Handrail (85) between tanks as shown. Glue remaining Round Handrails (3x 84) to top of right tank.

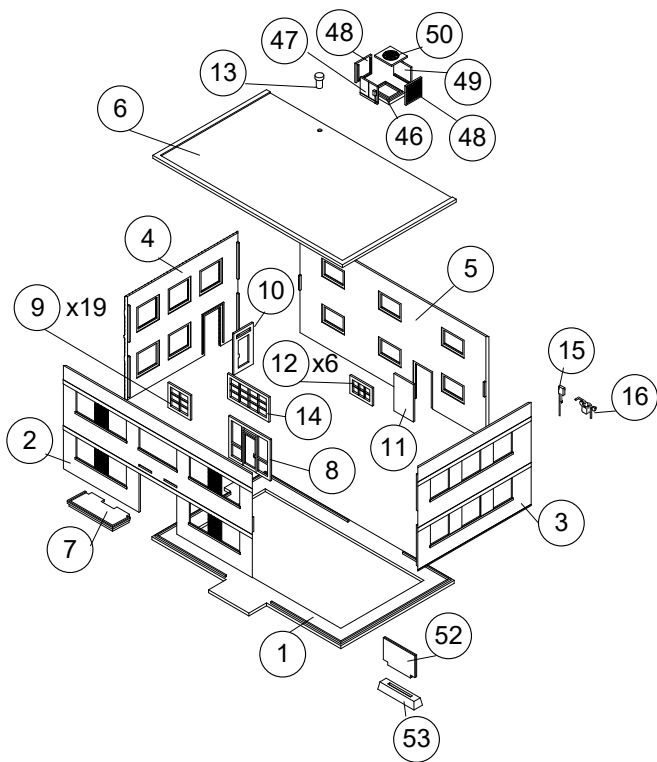
Tank House

18) Using raised ridges on Pump House Base (70) and tabs and slots on inside of Pump House Walls (71, 72, 73, 74) to align parts, carefully glue parts along inside edges where parts meet. Glue Right (long 82) and Left (short 83) Roof Handrails to inset area on edge of Roof (75). Glue Roof to top of wall assemblies. Insert long end of Discharge Pipe (2x 77 - one per tank) through alignment tabs on Top Section until they touch Roof, and short ends into openings in tops of each tank, and glue where parts meet.

19) Carefully align Small Ladder (78) with Small Safety Cage (79), glue where supports make contact and allow to dry. Align cross braces on back of Ladder with raised pads on Left Wall (71) and carefully glue where parts meet.

20) Glue Flange (87) to one end of Outlet Pipe (86) as shown - set aside for final assembly once you've decided where buildings will be placed on your layout.





OFFICE

21) Doors & Windows - Insert and glue windows and doors to inset areas on back of each wall. Acetate is provided for windows. Cut "glass" slightly larger than windows and glue in place on back with white glue.

Front Wall (2): 6-Light Vertical Windows (8x 9), Front Entrance (8).
 Right Side Wall (3): 6-Light Vertical Windows (6x 9).
 Left Side Wall (4): 6-Light Vertical Windows (5x 9), Side Entry Door (10).
 Rear Wall (5): 6-Light Horizontal Windows (6x 12), Rear Entrance Door (11).

22) Use raised ridges on Office Base (1), and tabs and slots on inside edges of all Walls to align parts as shown and carefully glue along inside edges where parts meet.

23) Insert tabs of Office Canopy (7) into slots on Front Wall above Front Door and glue in place.

Office Air Conditioner

24) Using raised ridges on Base (46) and tabs and slots on inside of Front (47), Side (2x 48) and Rear (49) Walls, align parts as shown and carefully glue from inside where parts meet. Align and glue Top (50) to this assembly. Finished air conditioner can be glued to Office Roof (6) at any desired location. Align pin on bottom of Office Chimney (13) with opening in Roof and glue where parts meet. Glue completed Roof to tops of wall assemblies.

25) PLEASE NOTE: The small round pieces molded on the piping of Gas Meter (16) simulate regulator valves - do not remove when cutting from sprues. Glue Electric Meter (15) and Gas Meter to any convenient spot along back wall.

Small Sign

26) Glue Small Sign (52) to Small Sign Base (53). To add signs, see decaling section below.

Layout Installation

27) Sketch and box photo show a typical arrangement of the completed buildings and accessories. Once you decide the placement of the Main Building and the Unloading Building, glue Pipes from step #24 to side walls of both structures.

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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