



HO Structure Kit MODERN FURNITURE FACTORY 933-4108

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. 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. 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. Carefully scrape or sand paint from edges to be glued.

Your favorite chair had quite a journey before it occupied that spot in the living room. Prior to the 1800s, you'd have had to work with the local furniture maker who would design and build each piece by hand from whatever materials could be sourced locally. That began to change by the mid-1800s, as the industrial revolution brought new woodworking tools, making it possible to quickly produce large numbers of identical parts for the first time. In turn, this lowered production costs and the savings could be passed on to consumers greatly expanding sales. Railroads also played a roll, hauling in raw materials and shipping finished goods over longer distances. This also led to specialized retailers who sold but no longer made furniture. The 20th century would see the adoption of assembly line techniques, where employees focused on a specific job, speeding production and further reducing costs. In later years, new materials such as plywood, aluminum, foam rubber and plastics would also have a major impact on the industry. Modern furniture making continues to evolve. Modern pieces are designed on computer. Parts are fabricated to precise tolerances by computer-controlled saws, lathes, laser cutters and 3-D printers. New generations of materials, including sustainable products, engineered wood products and new textiles, are also being used in response to consumer demand. This has greatly expanded the supply chain, and railroads are still called on to move raw materials and shipping finished products, often loaded in shipping containers. Your new model is typical of modern facilities that house most of their operations under one roof, specializing in one type of product or manufacturing sub-assemblies. On your layout, it can operate as a freestanding satellite facility or as part of a larger manufacturing complex. For additional vehicles, railroad equipment, figures, scenery materials and more to finish your scene, see your local hobby shop, check out the current Walther's Model Railroad Reference Book, or visit us online at walthers.com.

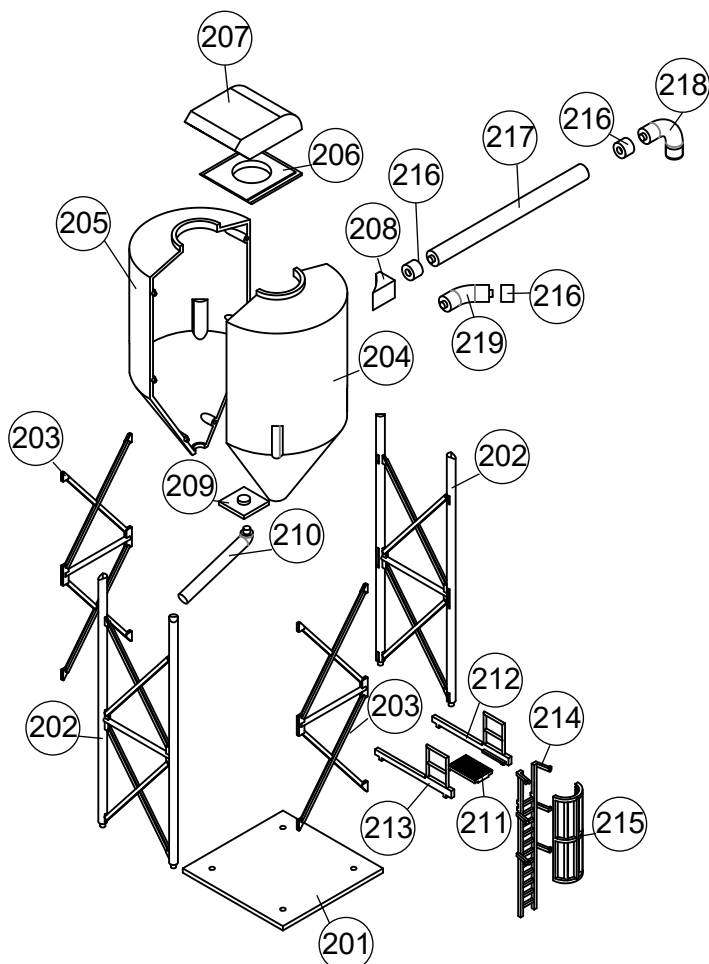
Cyclone Dust Collector

PLEASE NOTE: While this sketch shows a typical assembly, there are no set mounting points for the Access Ladder, Discharge Pipe and Inlet Pipe, which can be installed at any location; for easier assembly, install these parts after determining the final location and orientation of the main building on your layout - see steps 18 to 21 for final assembly. If you wish to model more of the inlet system, additional piping can be added using appropriate sizes of plastic or brass tubing (not included) available separately at many hobby shops.

1) Be sure inset areas on back of Supports (2x 202) face inward and glue pins on lower ends of posts to openings in Base (201).

2) Align tabs on Cross Braces (2x 203) and glue to inset areas on back of Supports.

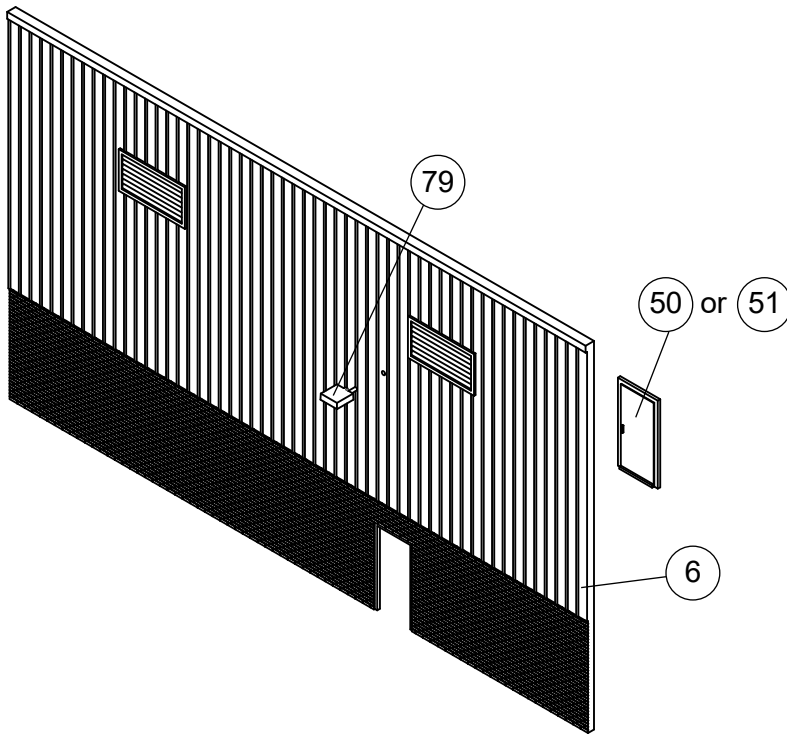
3) Align pins and mounting points on back of Right (204) and Left (205) Cyclone Halves and glue together. Glue mounting pin on top of Discharge Flange (209) to opening on bottom of Cyclone. PLEASE NOTE: As the various details can be aligned as desired, you may find it easier to set - do not glue - the Cyclone in place on the supports so you can make adjustments as needed during final assembly.



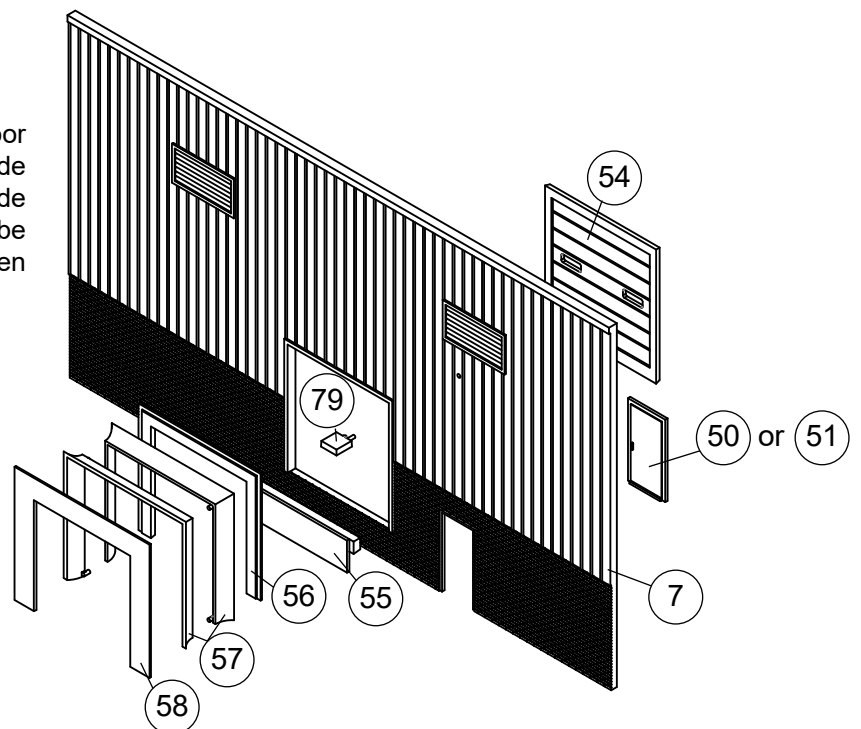
Doors & Windows

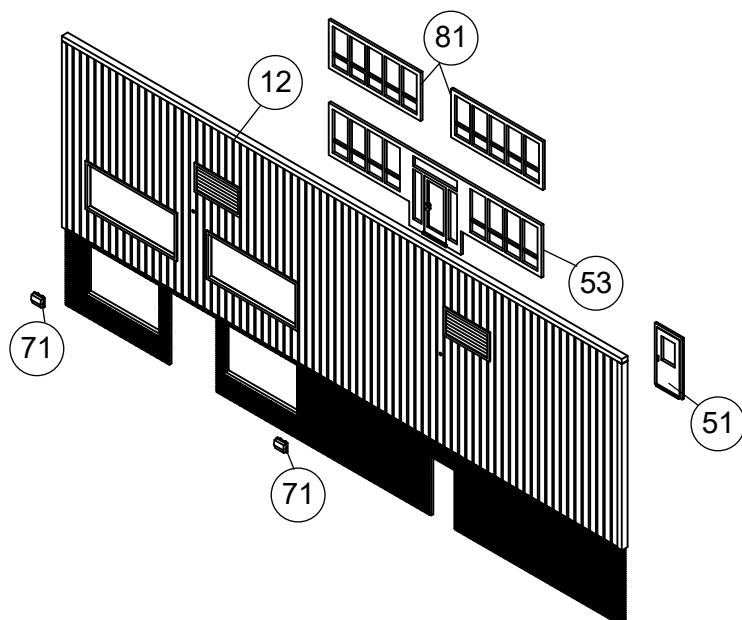
4) Glue windows and doors to inset areas on backs of walls where noted. Acetate is provided for "glass;" cut pieces slightly larger and glue to backs of windows and doors; we suggest using white glue (PVA) or canopy glue to prevent damaging the "glass."

Plain Right Sidewall (6) - make two: Entry/Exit Door (50 or 51), Exterior Light (79); repeat for remaining wall.

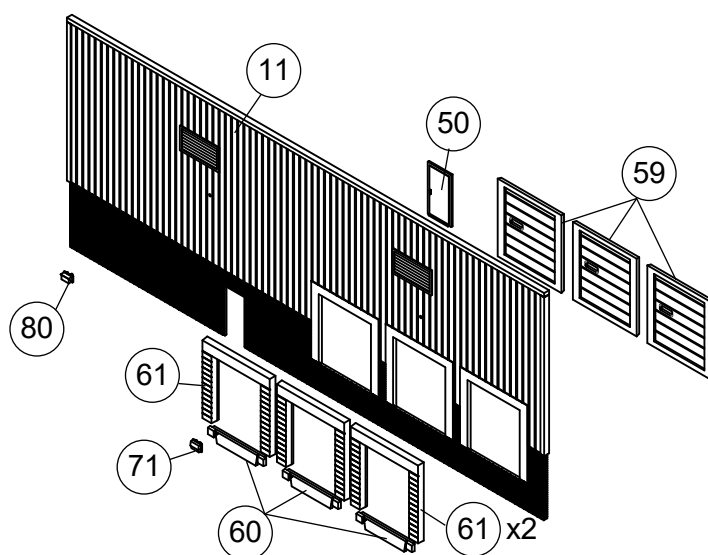


Railcar Dock Wall (7) - make two: Entry/Exit Door (50 or 51), Exterior Light (79), Bumper (55), Inside Dock Door Frame (56), Bellows (2x 57), Outside Dock Door Frame (58); Overhead Door (54) may be glued in place from inside, left off to model an open door. Repeat for remaining wall.

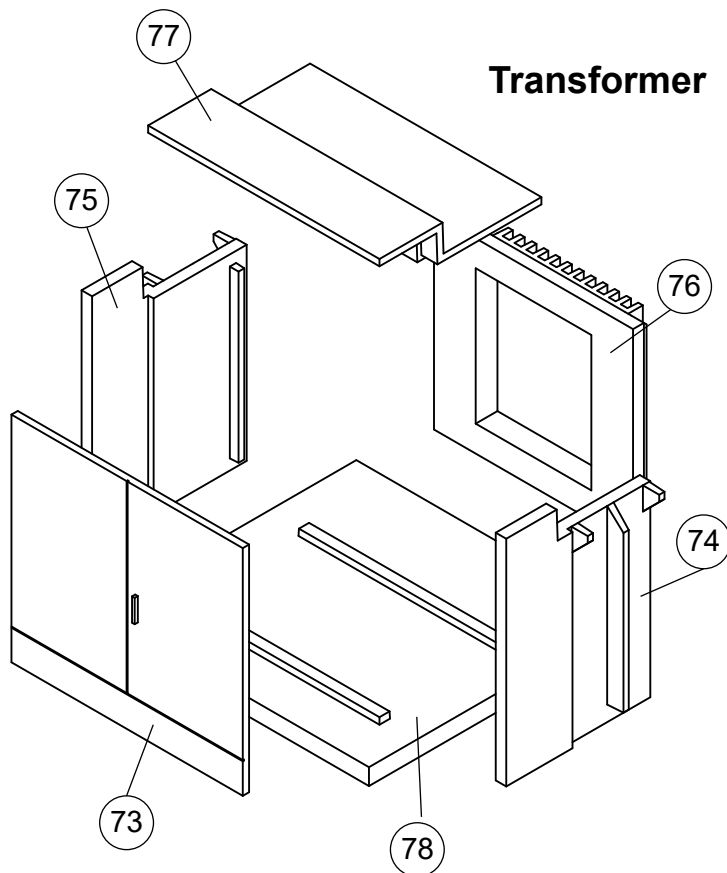




Front Wall (12) - Upper Office Windows (2x 81), Lower Office Window & Doors (53), Entry/Exit Door w/Window (51), Small Exterior Lights (2x 71).



Truck Dock / Rear Wall (11) - Entry/Exit Door (50), Dock Bumper (3x 60); Weather Seals (3x 61), Small Exterior Lights (2x 71); Overhead Doors (3x 59) may be glued in place or left off to model an open door.



Transformer

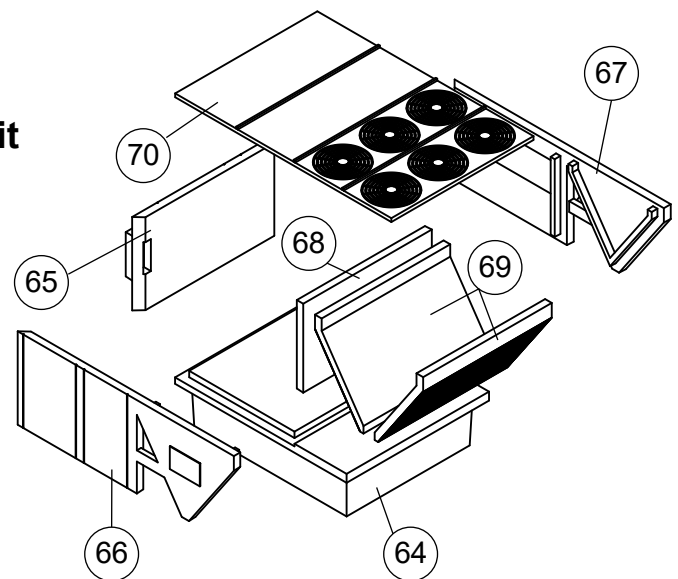
Pad-Mounted Transformer

5) Using raised ridges on Transformer Base (78), and inside edges of Right (74) and Left (75) Side Walls to align parts, carefully glue Front (73), Sides and Rear (76) Walls to Base and at inside corners. Complete assembly by gluing Top Panel (77) to top of Wall Assemblies.

A/C Unit

Air Conditioners *(make four)*

6) Glue Interior Wall (68) to raised ridge at right side of Base (64) as shown. Align V-shaped edges of Air Inlet (69) with matching raised ridges on inside of Front (66) and Rear (67) Sidewalls and glue together. Align lower left edges of Sidewalls along raised ridges on Base and glue where parts meet. Align slots on Rear Wall (65) with tabs on Sidewalls, and lower edge with raised ridge on base and glue parts at inside edges. Glue Top Panel (70), to top of walls to complete assembly. Repeat for remaining air conditioners.

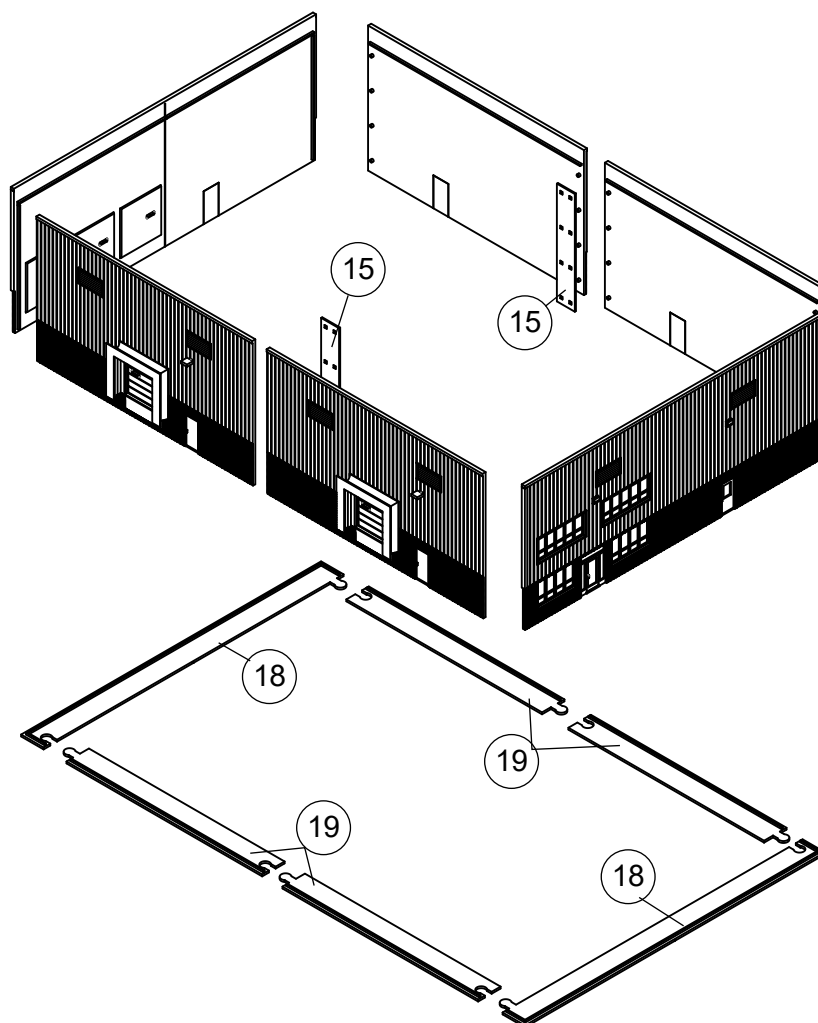


Main Building Assembly

7) Note the tabs and slots on the End (2x 18) and Side (4x 19) Base Sections; make sure raised ridges face upward and to the outside as shown. Align tabs in slots and glue where parts meet, allow to dry on a flat surface.

8) On a flat, level surface, place Right (2x 6) and Left (2x 7) Sidewall assemblies side-by-side as shown. Align openings on Wall Joiner (2x 15; one per each sidewall) with pins at center on backs of walls; glue where parts meet and allow to dry.

9) Using raised ridges on Base and on backs of Front (12), Plain Right (6) and Left Rail Car (7) Side Walls, and Truck Dock / Rear Wall (11), align corners and lower edge of each wall and carefully glue along inside edges where parts meet.



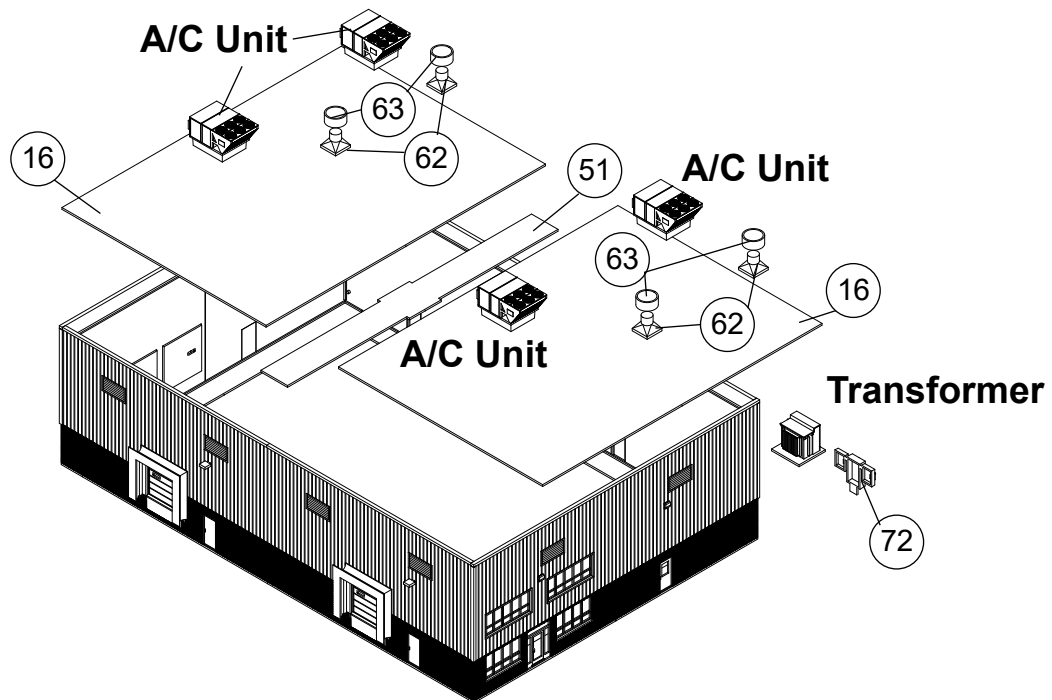
Roof Assembly

10) Align center of each Roof Half (2x 16) side-by-side, and face down on a flat surface. Align Roof Connector (51) along raised ridges on underside of each half; glue where parts meet and allow to dry.

11) Vents (*make four*):

Glue top of each Vent Base (4x 62) to underside of each Vent (63).

12) Roof may be set in place atop raised ridges on walls, or glued in place as desired. Air Conditioners (4x) and Vents (4x) may be glued to Roof at any desired location; a typical assembly is shown.



Lumber Storage Shed

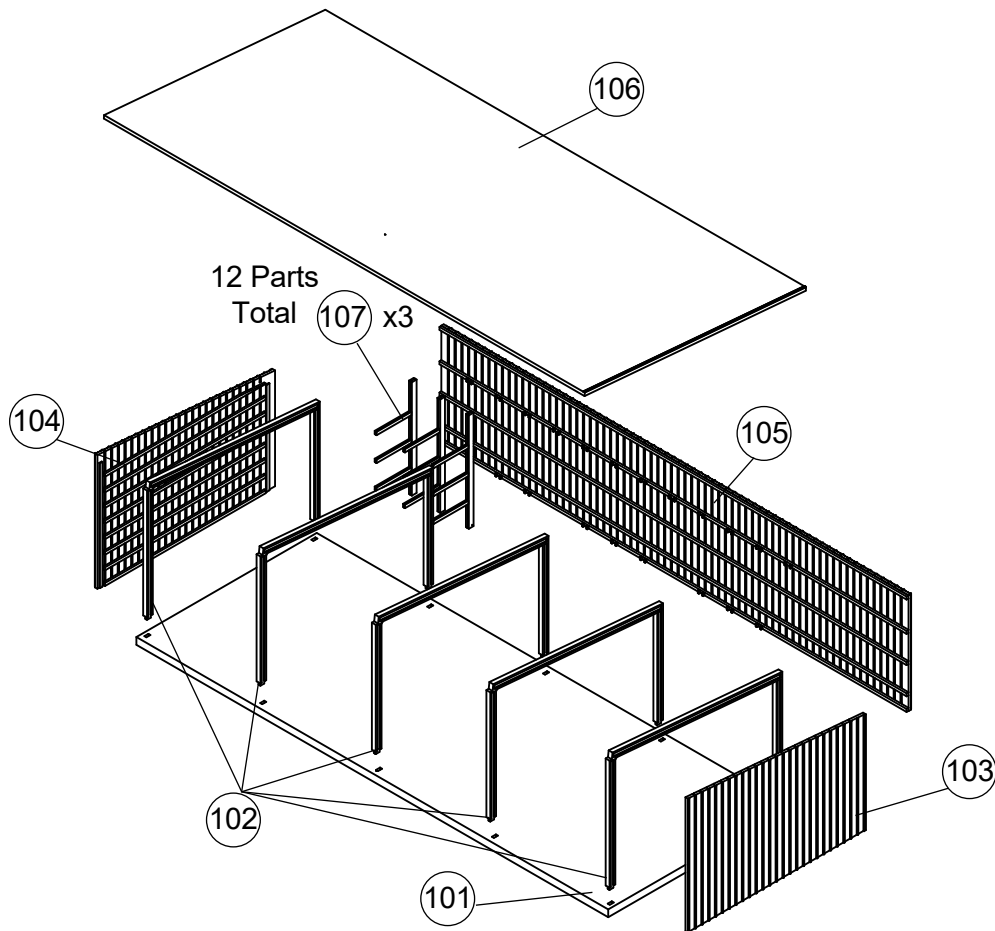
13) Insert tabs on bottom of Support Trusses (5x 102) into slots on Base (101) and glue where parts meet.

14) Note U-shaped brackets molded on inside of Rear Wall (105), which will align inside three of the four bays. Glue three Lumber Racks (107) to brackets in bay/s as desired.

15) Align inset areas on Right (103) and Left (104) Side Walls with end Trusses and glue as shown. Align Rear Wall (105) with back corners of Side Walls and Base, and glue at inside corners where parts meet.

16) Roof (106) can be set in place on top of wall assemblies to add details or lights (all sold separately), or glued in place as desired.

17) Repeat these steps for the remaining Shed.



Final Assembly

If you haven't already, determine the location of the various buildings on your layout, and follow these steps to complete assembly of the Cyclone.

Top Inlet

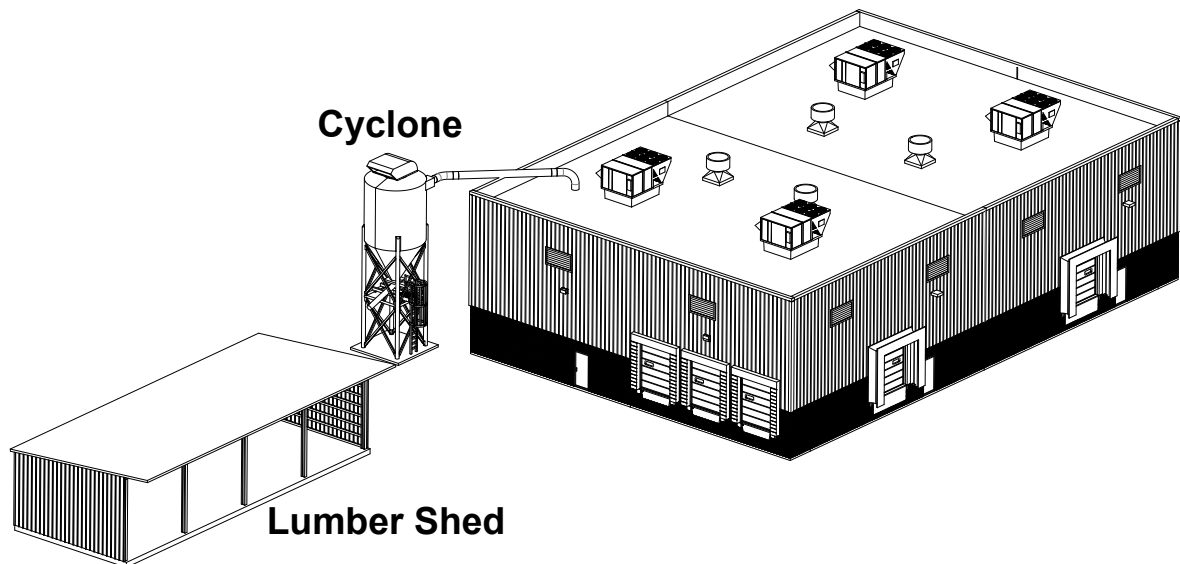
18) With the round ring of the Inlet Base (206) on the bottom and the raised square facing up, align the Base in the desired direction and glue to top of Cyclone. Complete assembly by gluing Inlet Shroud (207) to Base as shown.

Bottom Discharge

19) Align Discharge Pipe (210) at 90° between Supports or Cross Braces as shown and glue pin on bottom to opening in Discharge Flange.

Access Ladder

20) With safety tread detail facing upwards, align ridges on underside of Ladder Walkway (211) with ridges on underside of Right (212) and Left (213) Handrail Supports and glue where parts meet. Use the four mounting pins on the completed Supports to align this assembly inside the vertical beam of a Cross Brace or Support as desired – the ends of the Supports will rest on top of the vertical beam – and glue where parts meet. Carefully remove Ladder (214) from the sprue to avoid damaging mounts. With plain end (no rungs) facing upward as shown, glue Ladder inside end of Walkway Support and to Base where parts meet. Carefully remove Ladder Cage (215) from sprue to avoid damage. Align edge of Cage with mounts on Ladder and glue where part meet.



Inlet Pipe

21) PLEASE NOTE: While this sketch shows a typical assembly with a single inlet, four Inlet Flanges (#208) are provided so multiple inlets can be modeled, facing left or right (right-hand shown) by simply turning them over. Determine the location of the Flange/s and glue in place towards the top of the Cyclone. Glue Connectors (2x 216) to pins on each end of Inlet Pipe (217) as shown. Glue one end to pin on Flange as shown, and to 90° Elbow (218) at the other end. Glue a Connector to the remaining end of the 90° Elbow. If you haven't already, glue completed Cyclone to Supports.

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.

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