



HO Structure Kit CONVEYORS WITH TRANSFER HOUSE

933-4171

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.

Cheap and plentiful, coal was the life-blood of electric power companies large and small well into the 20th century, and thanks to the fast-growing railroad network, it was relatively easy to ship virtually anywhere in large quantities. Handling coal at these facilities also required a variety of specialized machinery and conveyor systems. As hoppers arrived and were unloaded by gravity into below-ground pits, conveyors directed coal into stockpiles; typically several days or weeks worth of fuel was stored on-site in the event of a disruption. Much of this was cheaper "run of mine coal" shipped just as it came from the ground. Conveyors once again were used to feed coal from the stockpiles to a crusher, where it was broken into smaller pieces, washed to removed debris and screened to a uniform size for better burning. Conveyors then transferred cleaned and processed coal into bunkers, which used a combination of gravity and mechanical stokers to feed the fires nonstop. By the 1970s, increasing concerns about air quality saw many coal-fired plants make the switch to cleaner western coal, shipped cross-country by rail in solid "unit trains" that stayed together for the entire round trip. As western coal weighed less, more could be carried ushering in a new generation of purpose-built coal hoppers and gondolas, designed for faster unloading using rotary dumpers. Although much of the on-site coal handling machinery was still used, crushers were replaced by machinery that ground the coal into an ultra-fine powder and mixed it with air, resulting in cleaner burning with fewer emissions. Typical of coal handling equipment from the 1930s to the present, your new model will be right at home alongside the Lakefront Energy Plant (#933-4172), the Metro Power and Light Generating Plant (#933-4052), Power Plant Rotary Dumper (#933-4170), Small Substation (933-4175), Modern High Voltage Transmission Towers (#933-3343) and High-Voltage Transmission Towers (#933-3121). A variety of SceneMaster Utility Vehicles are also available separately in both yellow and white. For additional railroad equipment, structures, figures, vehicles and other details to bring your new power plant to life, see your local hobby dealer, check out the latest Walthers Model Railroad Reference Book or visit us online at walthers.com.

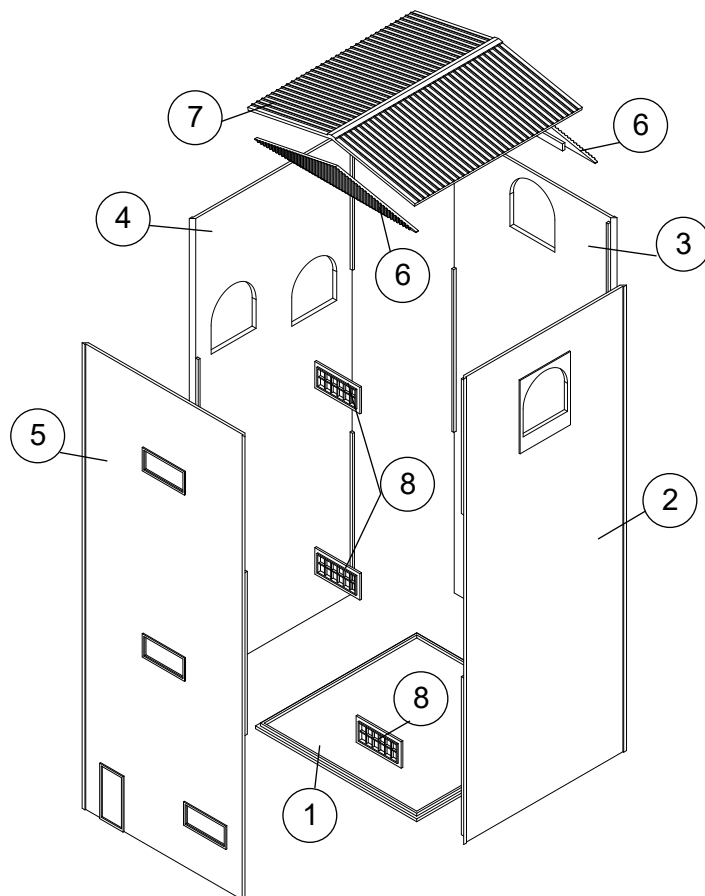
Transfer House

Transfer House

1) Glue Windows (3x 8) to inset openings in back of Wall (5). Acetate is provided for windows; cut pieces slightly larger than Windows and glue in place with white glue.

2) Using raised ridges on Base (1) and tabs and slots molded on inside of Walls (2, 3, 4, 5), align parts as shown and glue at inside edges where parts meet.

3) Glue Roof End Panels (2x 6) to underside of Roof (7). Glue completed Roof to top of wall assembly.

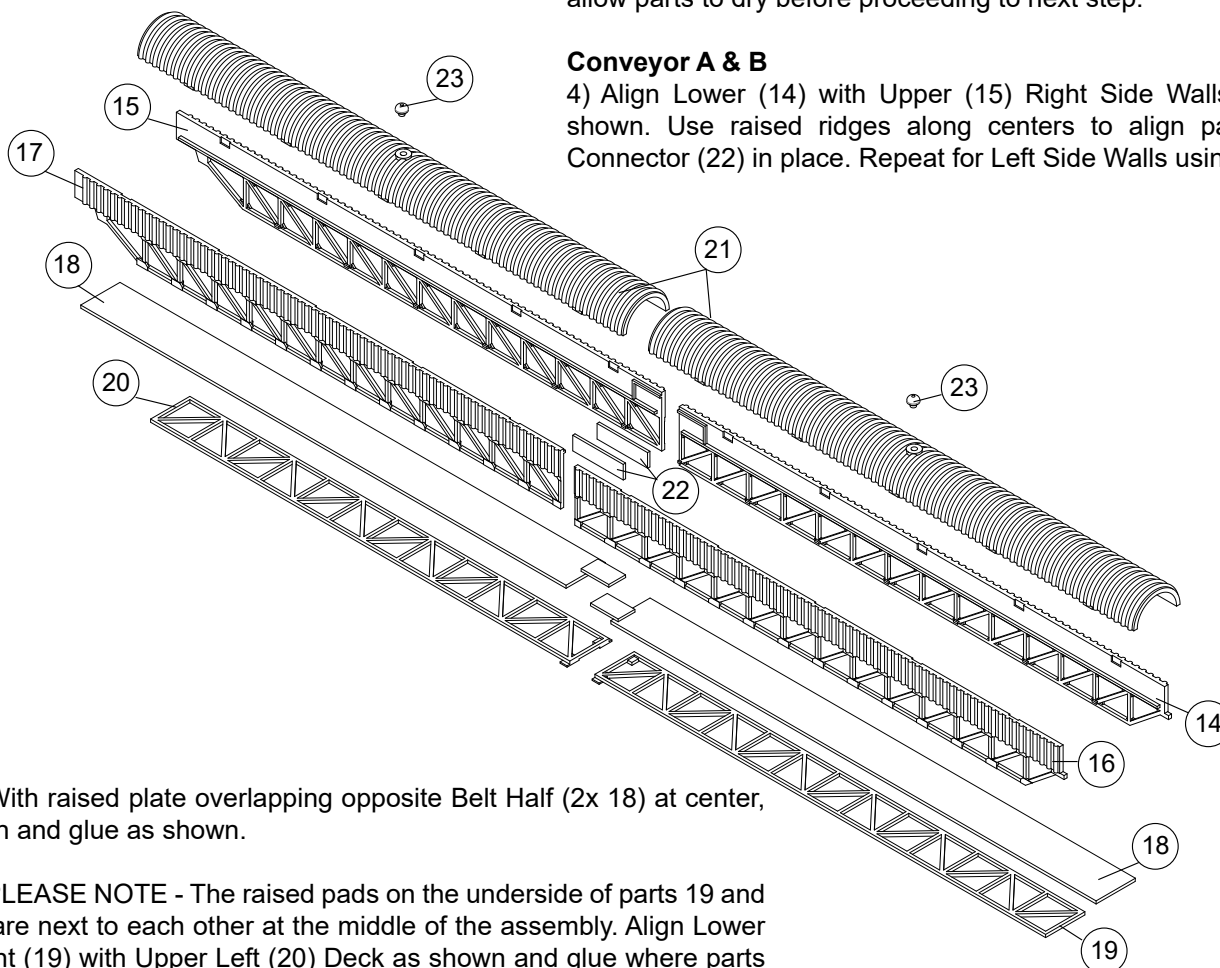


Conveyor A & B

Conveyor Assembly - For best results, work on a flat surface and allow parts to dry before proceeding to next step.

Conveyor A & B

4) Align Lower (14) with Upper (15) Right Side Walls at center as shown. Use raised ridges along centers to align parts, and glue Connector (22) in place. Repeat for Left Side Walls using parts 16, 17.



5) With raised plate overlapping opposite Belt Half (2x 18) at center, align and glue as shown.

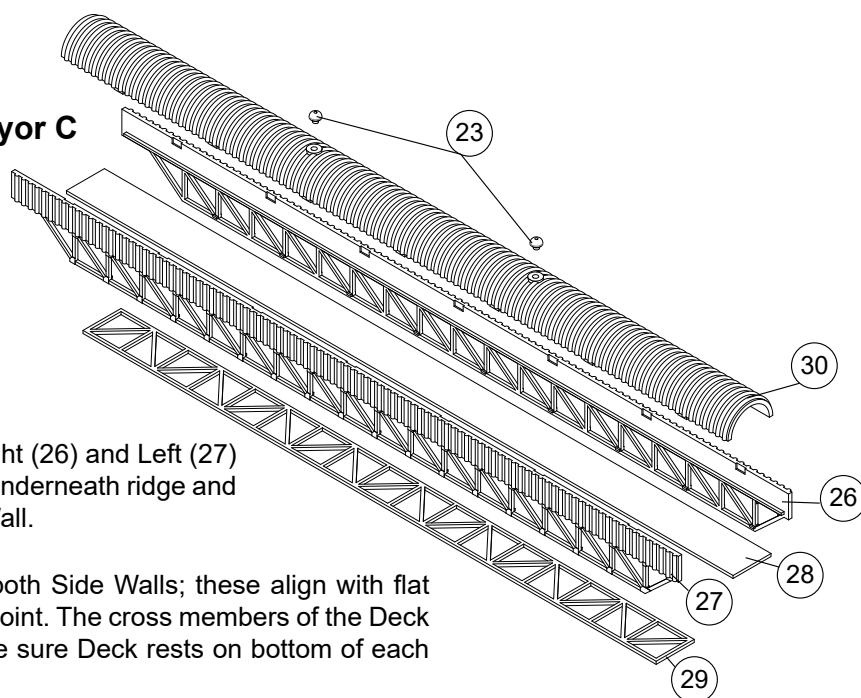
6) PLEASE NOTE - The raised pads on the underside of parts 19 and 20 are next to each other at the middle of the assembly. Align Lower Right (19) with Upper Left (20) Deck as shown and glue where parts meet at center.

7) Note raised ridges above braces on inside of both Side Walls: make sure upper edge of Belt rests under ridge and glue where parts meet. Repeat for remaining Side Wall.

8) Note tabs molded along lower inside edges of both Side Walls; these align with the top surface of the Deck where braces come to a V-point; the cross members of the Deck align with the vertical braces of the Side Walls. Starting with left or right wall, make sure Deck rests on bottom of each tab, and carefully glue where parts meet.

9) Glue Vents (2x 23, one per section) to openings in Roofs (2x 21). Align tabs on inside of Roofs with openings in Side Walls and glue together.

Conveyor C



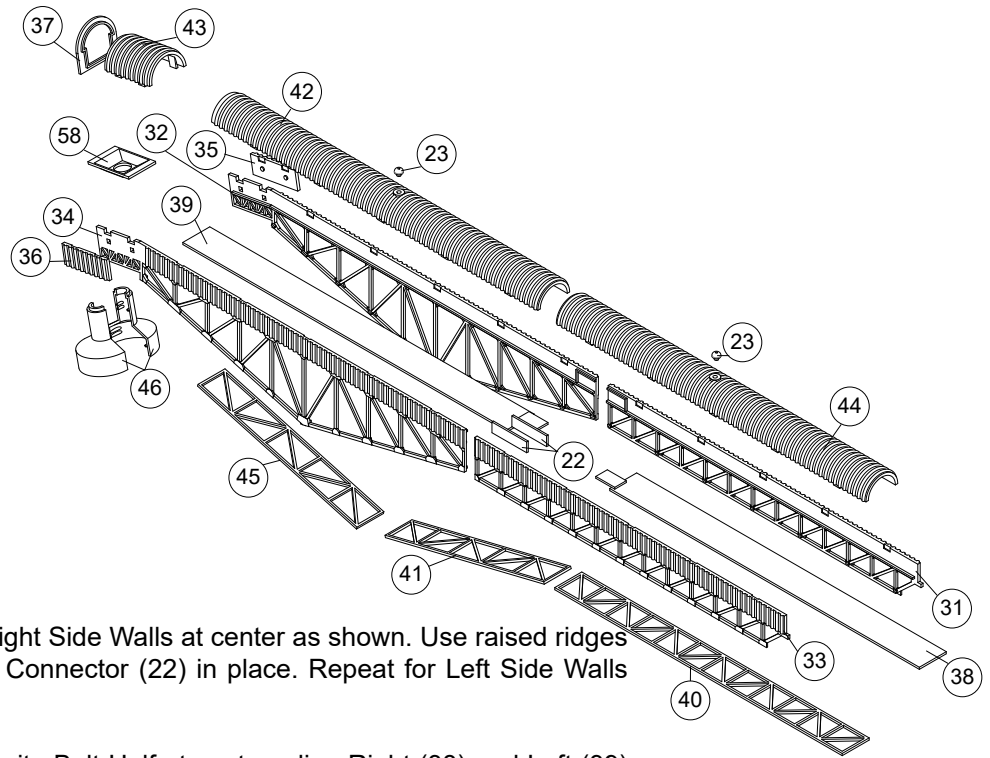
Conveyor C

10) Note raised ridges above braces on inside of Right (26) and Left (27) Side Walls: make sure upper edge of Belt (28) rests underneath ridge and glue where parts meet. Repeat for remaining Side Wall.

11) Note tabs molded along lower inside edges of both Side Walls; these align with flat areas of top of Deck (29) where braces come to a V-point. The cross members of the Deck align with the vertical braces of the Side Walls. Make sure Deck rests on bottom of each tab, and carefully glue where parts meet.

12) Glue Vents (2x 23) to openings in Roof (30). Align tabs on inside of Roofs with slots in Side Walls and glue together.

Conveyor D



Conveyor D

13) Align Lower (31) with Upper (32) Right Side Walls at center as shown. Use raised ridges along centers to align parts, and glue Connector (22) in place. Repeat for Left Side Walls using parts 33, 34.

14) With raised plate overlapping opposite Belt Half at center, align Right (38) and Left (39) halves and glue together.

15) Note raised ridges above braces on inside of Side Walls: make sure upper edge of Belt rests underneath ridge and glue where parts meet. Repeat for remaining Side Wall.

16) Note tabs molded along lower inside edges of both Side Walls; these align with flat areas of top of Right (40), Center (41) and Left (45) Decks where braces come to a V-point. Make sure Decks rest on bottom of each tab, and carefully glue where parts meet.

17) Align round tabs on inside of Right (35) and Left (36) Corrugated Panels with square openings at top Left Sidewalls and glue where parts meet.

18) Glue Hopper (58) to underside of raised ridges at ends of Side Walls as shown.

19) Glue Left and Right Funnel Halves (2x 46) as shown. Insert raised ridge on top of Funnel to underside of Hopper and glue where parts meet.

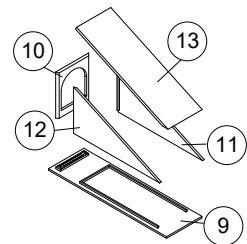
20) Use raised ridge on inside of End Plate (37) to align with Hopper and Side Wall, and glue at inside edges where parts meet.

21) Glue Vents (2x 23) to openings in Large Right (44) and Left (42) Roof. Align tabs on Small (43) and Large Roofs with openings at tops of Side Walls and glue together.

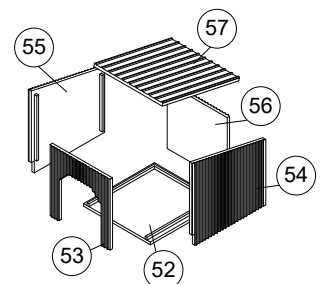
Conveyor Base

22) Use raised ridges on inside of Walls (10, 11, 12) and Base (9) to align parts and glue along inside edges. Complete assembly gluing Roof (13) to top of Wall assemblies.

Conveyor Base



Head House



Head House

PLEASE NOTE - the Head House is designed for use with the Lakeshore Energy Power Plant (#933-4172, sold separately), but can be adapted to other buildings.

23) Use raised ridges on inside of Walls (53, 54, 55 & 56) and Base (52) to align parts and glue along inside edges. Complete assembly gluing Roof (57) to top of Walls.

24) A Support - Short: Align pins on bottom of Small Support (25) with openings in Small Base (24) and glue together

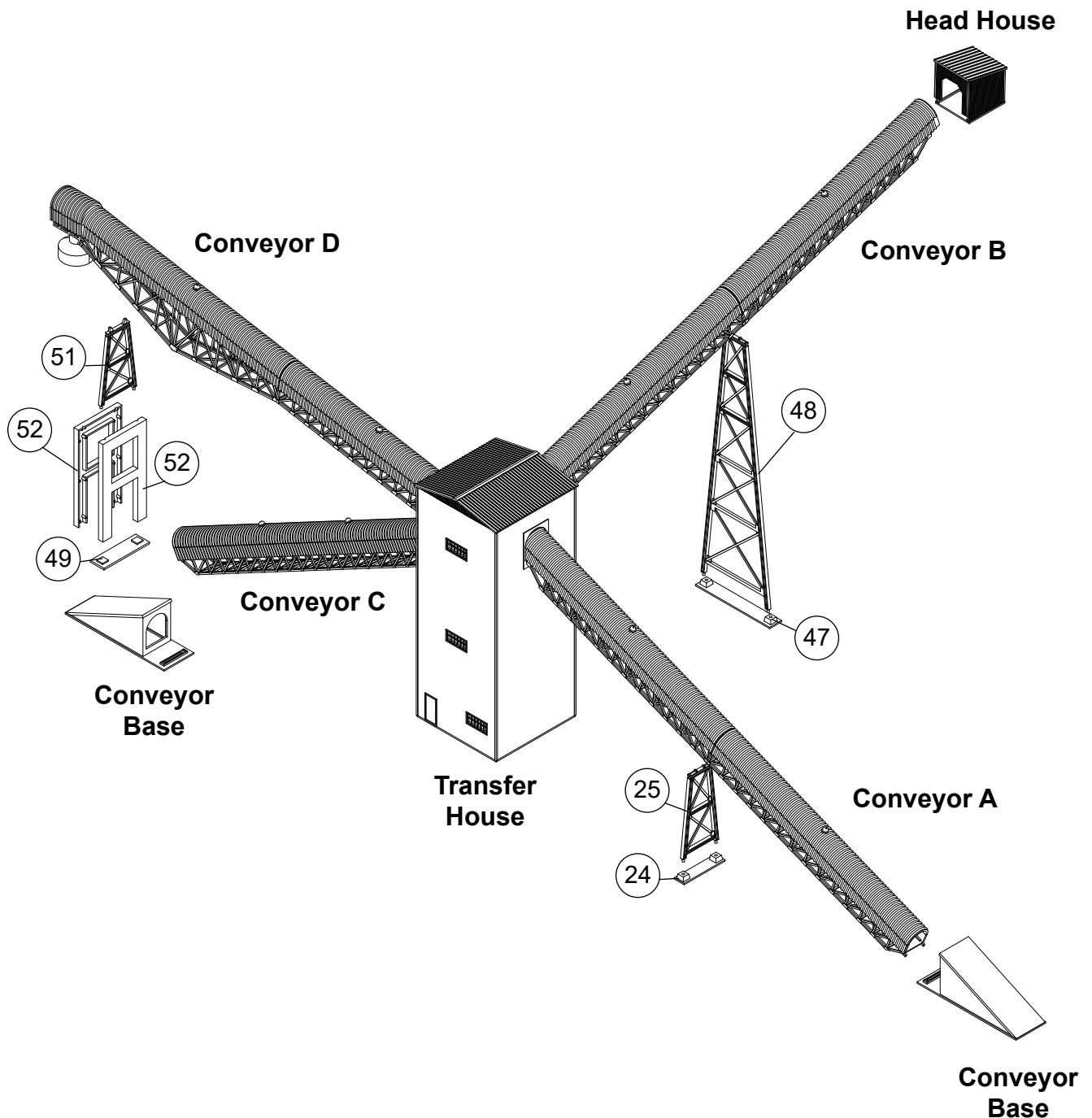
25) B Support - Large: Align pins on bottom of Large Support (48) with openings in Large Base (47) and glue together.

26) D Support: Glue Right and Left (52) Legs together. Align square openings with raised squares on Base (49) and glue. Complete assembly by gluing pins on lower edge of Medium Support (51) to openings on top of Legs.

A Support - Short: Align pins on bottom of Small Support (25) with openings in Small Base (24) and glue together

B Support - Large: Align pins on bottom of Large Support (48) with openings in Large Base (47) and glue together.

D Support: Glue Right and Left (52) Legs together. Align square openings with raised squares on Base (49) and glue. Complete assembly by gluing pins on lower edge of Medium Support (51) to openings on top of Legs.



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