



HO Structure Kit

VINTAGE COAL DEALER

933-4094

Thanks for purchasing this Cornerstone kit. All parts are styrene 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 construction.

Coal and fuel dealers served communities across the country for decades before other means of heating replaced the coal furnace. Railroads supplied the materials in bulk and dealers such as this delivered coal by the sack or oil by the gallon in trucks to homes and businesses.

This kit has been designed with great flexibility in mind for how you may choose to arrange the components. You'll need to provide your own track or rail for the coal trestle.

OFFICE

(Sprue 933-4094A, B & C)

This kit has been engineered with precise beveled corners to produce a seamless brick effect. Carefully dry-fit each joint before applying glue. If there's a gap on a beveled edge you likely need to file some material away to get a tight joint. However, do not file the beveled edges unless absolutely necessary – look for other places that might interfere with the fit, such as points where the part came off the sprue. The same is true for any joint where alignment pins aid in locating the part. Dry fit and test the joint and only add glue when you're satisfied with the fit.

Begin by familiarizing yourself with the kit components. Compare the part numbers on the sprues with the diagrams.

Base Assembly

Glue the front entry steps (2) onto the base (1) using the alignment pins as a guide.

Windows

Clear acetate has been provided for window glass. Cut the acetate to size for each window and adhere it to the window frames using a plastic-safe adhesive of your choice. Set the windows aside to dry while you proceed with the main structure.

Front Wall

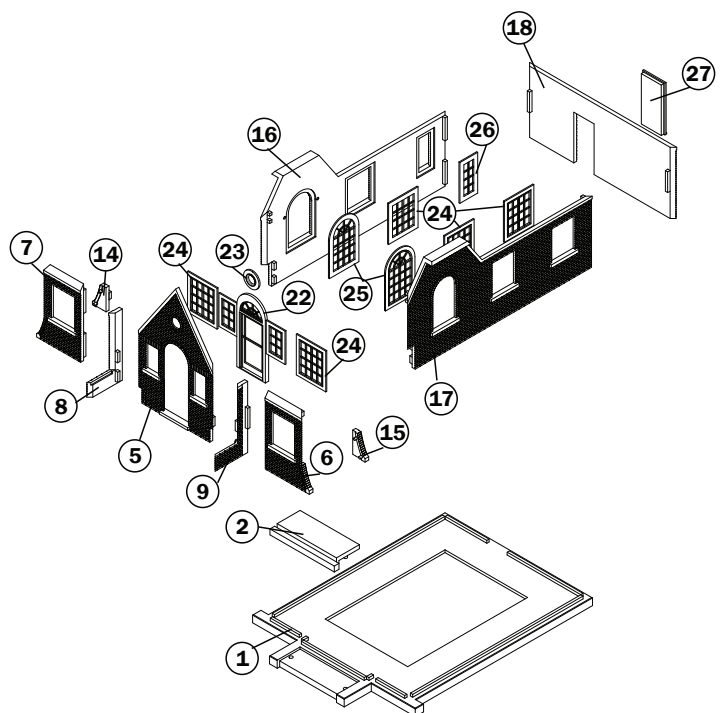
1. After test fitting, glue the narrow front walls (8, 9) to the front entry wall (5), taking care to align them vertically and horizontally. The alignment tabs on the back help you do this. Take your time to get this right before you proceed.
2. Glue the small pedestal details (14, 15) to the front windows walls (7, 6) respectively. Once these sub-assemblies and the front entrance sub-assembly have fully dried and only then, proceed to step three.
3. Check the fit again and glue the front window wall (7) to narrow front wall (8), and front window wall (6) to narrow front wall (9). Tip: use the base (1), to check the alignment as the glue dries. It is important that the front wall assembly is plumb and square to ensure a good fit with the rest of the structure and a neat appearance overall. Set this aside to dry.

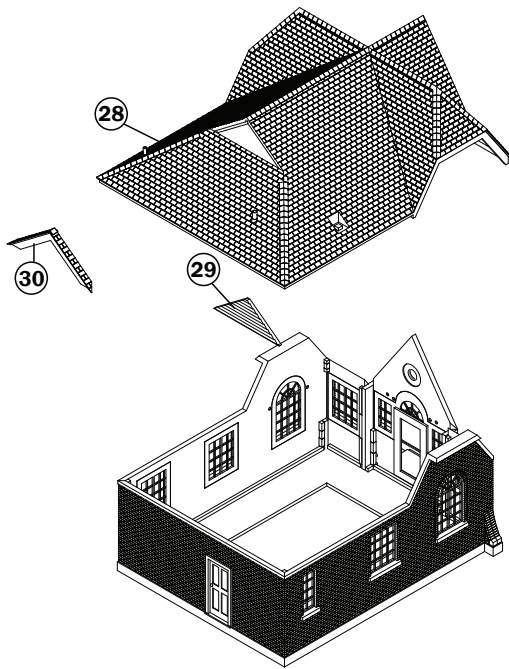
Rear and Side Walls

4. Test fit the windows (3x 24, 2x 25, 26) into their respective openings on the side walls (16,17). If necessary, carefully sand the windows to fit into the recesses. Glue them in place.
5. Fit the rear door (27) into the opening in the rear wall (18) – from the outside. Sand as needed to ensure a snug fit. Glue into place from the inside for a neat joint.

Front Windows and Main Structure

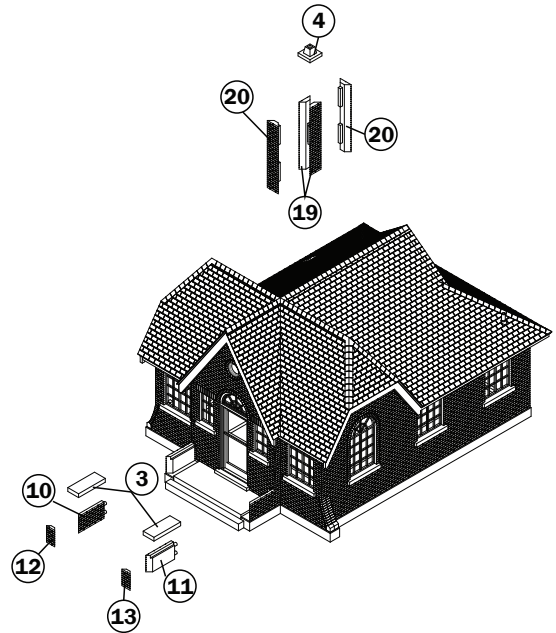
6. Once the front wall assembly has had time to fully dry, check the window and door fit using (22, 23, 2x 24). Sand or file as necessary for a good fit then glue into place.
7. Test fit the four main walls onto the base. Beginning with the front wall and one of the sides, glue them to the base and to each other. Apply only enough glue to tack the parts together and take care where you put your fingers while the glue sets. Pay close attention to the beveled corner. Once dry, proceed to step three.
8. Glue the remaining side wall and the back wall to the base, each other, and the front and side wall already glued to the base. Similarly, only apply enough glue to tack it all together. Once this has set you can apply additional glue from inside the structure, wicking it into the joints to strengthen the bond. Set this aside to dry.





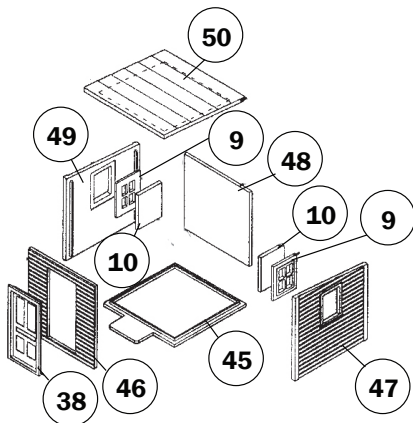
Roof

9. Check the fit of the gable vent (29) and gable trim (30) against the roof (28). The gable vent (29) fits inside the roof aligned in a gap against the gable opening. The ridge detail (30) is attached to the outside of the roof and is aligned with a small pin that fits into the roof peak. Once satisfied with the fit glue these parts in place.
10. Carefully cut the chimney parts (2x 19, 2x 20, 4) from the sprue. Glue two halves together, (19) to (20), using the tabs as an alignment guide. Set aside to dry. When dry, glue the chimney halves together, followed by the chimney cap (4).
11. The opening on the roof for the chimney may be a bit tight. Carefully enlarge the opening as needed with a hobby knife, testing the fit. Likewise, the base of the chimney may need to be enlarged to fit over the tab in the roof. Once you're happy with the fit glue the chimney in place.



Final Details

12. Test the fit of short walls, (10) and (11), against the porch and small porch walls. Be sure the indent on each piece is on the top, matching the indent on the small porch walls. This is where the cap stone (3) will fit on each short wall. Once you're happy with the fit of parts (10) and (11) glue them in place.
13. When these parts are dry, glue the short wall ends, (12) and (13), in place using just enough glue to get the job done. When these parts are dry glue the cap stones (2x 3) in place on each small porch wall.
14. Apply any interior window treatments.
15. If you aren't planning on lighting the structure or adding interior detail, glue the roof in place.



OIL PUMP HOUSE

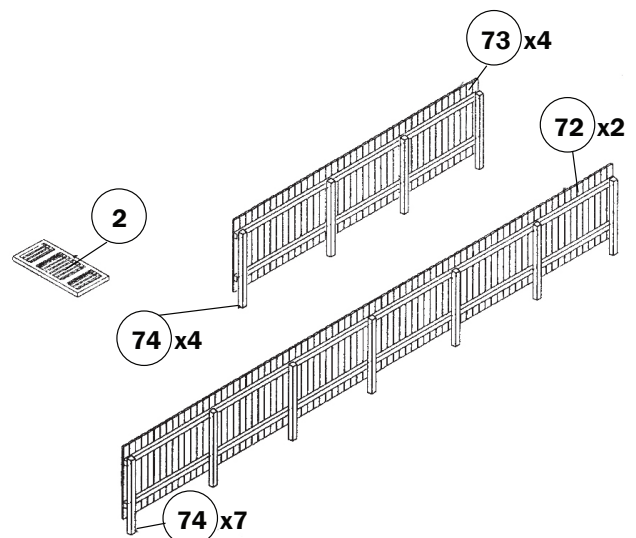
(Sprue 7003087D, 7003087F, 7003087A)

1. Glue the windows (2x 9) to the left (49) and right side walls (47). Glue the glass (2x 10) to the windows.
2. Glue the door (38) to the front wall (46).
3. Using the raised ridges on the oil pump house base (45) as a guide, glue the walls (46, 47, 48, 49) together and to the base.

FENCES & TRACK GRATE

(Sprue 7003087C, 7003166Y)

1. Glue the fence posts (4x 74) on the horizontal braces on the backs of the fences (2x 72, 4x 73), using the raised ribs on the fence posts as a guide to position them on the braces.
2. Glue the posts onto both ends of the fences and space them equally in between. Note: If you glue two fence pieces at right angles to each other, you will need only one post in that corner.
3. Determine the location of the grate (2); remove the appropriate number of ties from the track (not included) and slip in place; you may also wish to open up the area under the roadbed or bench work to model the actual pit.



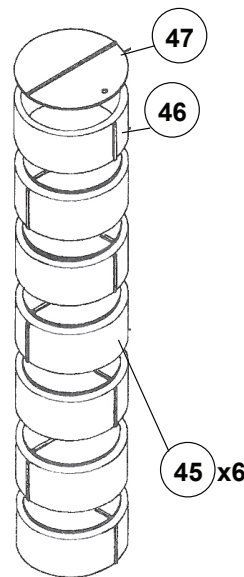
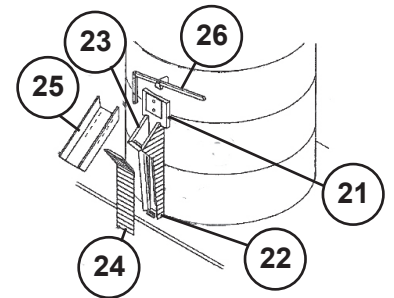
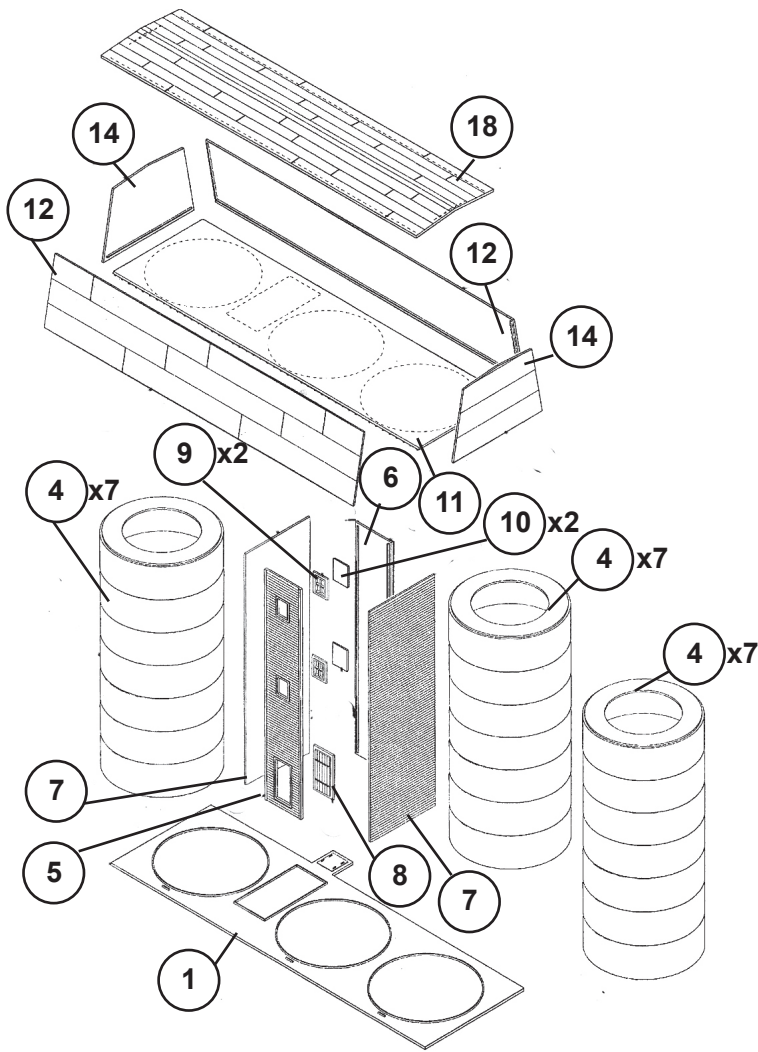
COAL BUNKER

(Sprue 7003087A, 7003087B, 7003087C, 7003087D, 7003087E)

1. Glue the windows (2x 9), glass (2x 10) and door (8) to the front elevator wall (5).
2. Be sure the siding on all walls faces downward. Using raised ridges on the base (1) as a guide, glue the elevator walls (5, 6, 2x 7) together and to the base.
3. Glue seven silo rings (4) together: repeat for each of three silos. Glue the completed silos to the base.
4. Using the raised ridges on top of the head house base (11) as a guide, glue the head house walls (2x 12, 2x 14) together and to the head house base. Glue the head house roof (18) to the completed head house. Align the ridges on the underside of the head house base with the elevator and silos and glue in place.

Follow and repeat these steps to build three discharge chutes:

5. Glue the chute sides (22, 23) to the chute back (21). Using the molded groove, carefully bend the front chute wall (24) as shown to match the angle of the chute walls and glue in place.
6. Glue the chute (25) to the chute walls.
7. Glue the release handle (26) to the mounting holes on the chute back.
8. Using the small raised ridge on the base (1) as a guide, glue the completed discharge chute to the base and to the silo; note the peg on the back of the discharge handle rests on the silo.



OIL TANKS

(Sprue 7003087G)

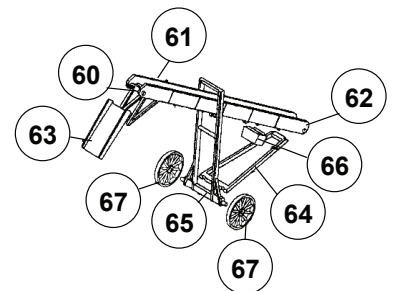
NOTE: Parts are included for two complete oil tanks, with one extra Tank Section (46) and Tank Top (47) left over.

1. Locate the weld seams molded into the tank sections. With the welds 90 degrees apart, stack and glue the tank sections (6x 46) together. Make sure the welds on the tank top (46) are at 90 degrees and glue to the last tank section.
2. Glue the tank end (47) to the tank top (46).
3. Repeat for the second oil tank.

LARGE CONVEYOR

(Sprue 7003166X)

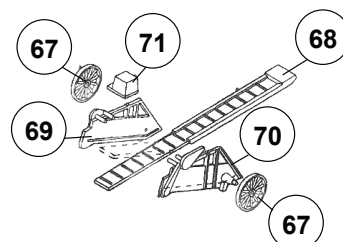
1. Glue the large conveyor sides (61, 62) to the large belt (60).
2. Glue the large conveyor motor box (66) under the large belt between knobs on the bottoms of the large conveyor sides.
3. Glue the large chute (63) to the conveyor assembly.
4. Slide the conveyor assembly through the large conveyor upright (65) and glue to the horizontal bar.
5. Glue the bottom brace (64) to the upright and to the bottom of the conveyor.
6. Glue the conveyor wheels (67) to the upright.



SMALL CONVEYOR

(Sprue 7003166X)

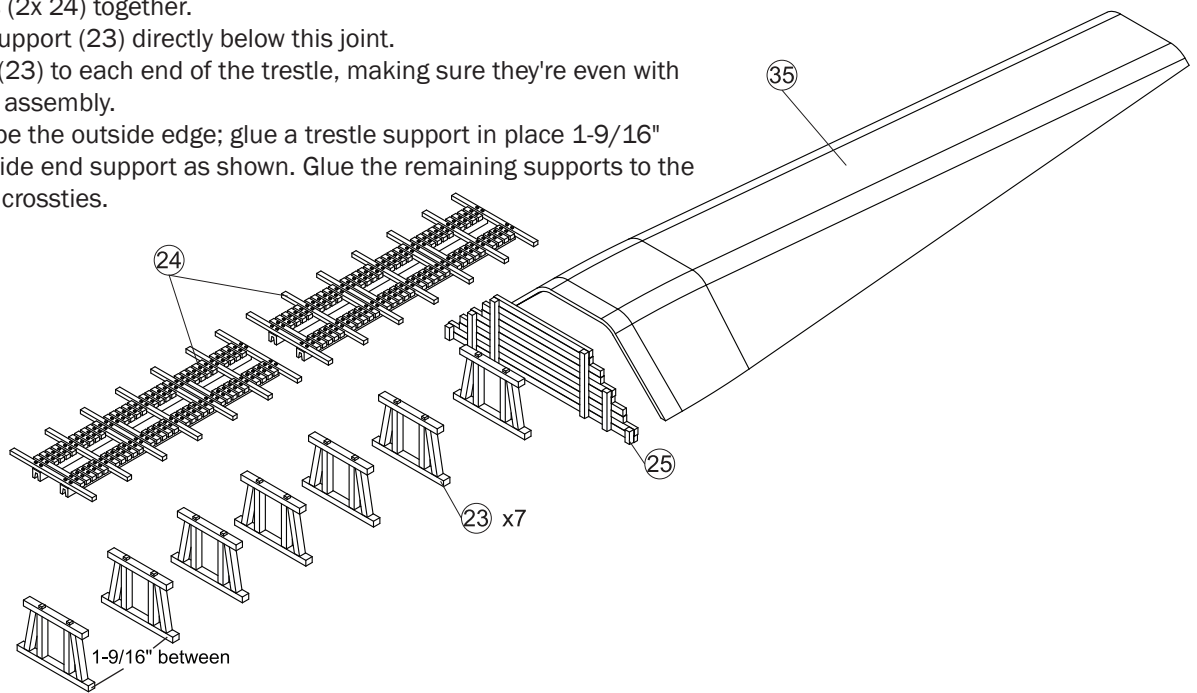
1. Using the molded groove, carefully bend the bottom end of the unloader belt (68) upward. Glue to ridges on the inside of the small conveyor sides (69, 70).
2. Glue the small conveyor motor box (71) in front of the small knobs on top of the small conveyor sides.
3. Glue the conveyor wheels (67) to the upright.



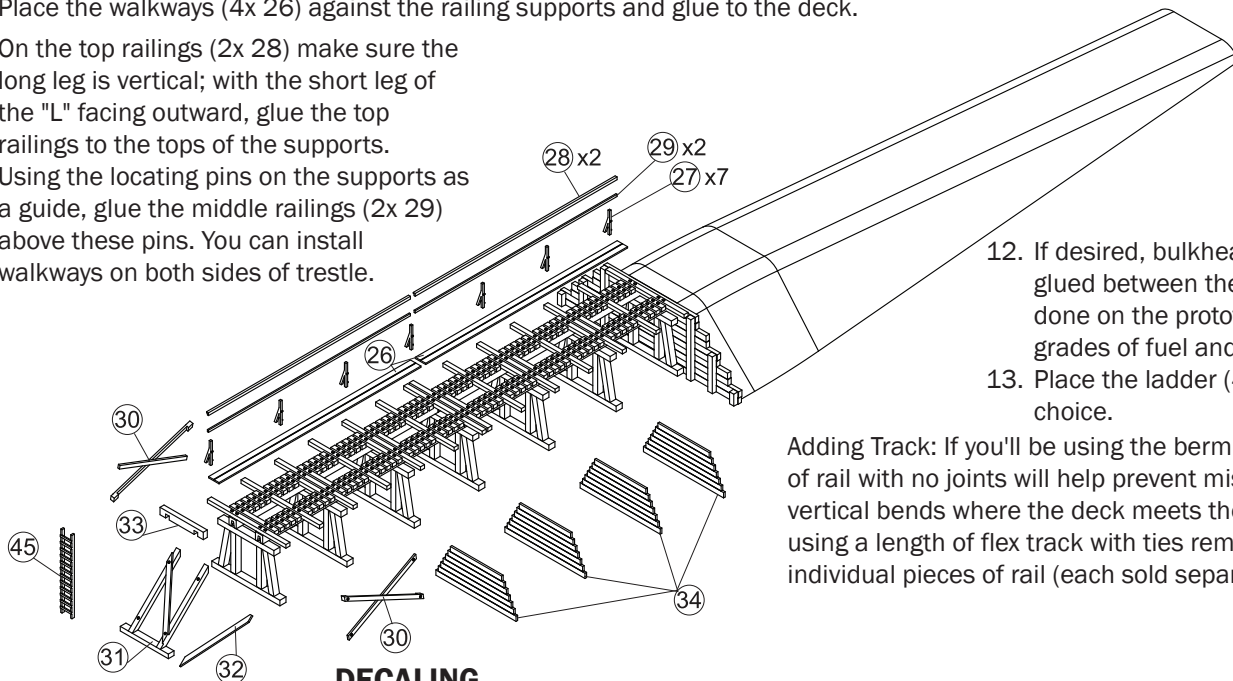
TRESTLE

(Sprue 933-4045-D, Berm #35)

1. Glue the trestle decks (2x 24) together.
2. Glue the first trestle support (23) directly below this joint.
3. Glue trestle supports (23) to each end of the trestle, making sure they're even with the edges of the deck assembly.
4. Determine which will be the outside edge; glue a trestle support in place 1-9/16" (3.9cm) from the outside end support as shown. Glue the remaining supports to the deck, under the triple cross ties.



5. Glue the abutment (25) to the inner end support and trestle deck assembly. If using a ground-level siding, use the berm (35) to raise the tracks. (Track sold separately).
6. Glue the braces (30) between the outside end supports as shown.
7. The end brace can be left off until your trestle is placed on your layout; assemble it by gluing the lower brace (32) to the end brace (31) and to the trestle. Glue the track bumper (33) to the end of the deck.
8. Note: the small locating pins on the faces of the railing supports (27) should face inward (toward the deck). With the end of the diagonal brace even with the end of the long tie, glue the supports in place.
9. Place the walkways (4x 26) against the railing supports and glue to the deck.
10. On the top railings (2x 28) make sure the long leg is vertical; with the short leg of the "L" facing outward, glue the top railings to the tops of the supports.
11. Using the locating pins on the supports as a guide, glue the middle railings (2x 29) above these pins. You can install walkways on both sides of trestle.



12. If desired, bulkheads (4x 34) can be glued between the supports; this was done on the prototype to separate various grades of fuel and/or building materials.
13. Place the ladder (45) in a location of your choice.

Adding Track: If you'll be using the berm, a continuous section of rail with no joints will help prevent misalignments or abrupt vertical bends where the deck meets the berm. We suggest using a length of flex track with ties removed from one end or individual pieces of rail (each sold separately) for this step.

DECALING

1. After cutting out the decal, dip in water for 10 seconds, remove, and let it stand for 1 minute on a hard surface such as a plate or cutting mat. Slide the decal onto the model, removing the backing paper. Position gently with tweezers or a soft paintbrush and then blot away any excess water.
2. Lightly brush Micro Sol® or similar decal solvent on top. This will soften the decal allowing it to conform to irregular surfaces. Allow the decal to dry without touching it.
3. When the decal is thoroughly dry, check for any trapped air bubbles. Prick them with the point of a small pin or hobby knife blade and apply more Micro Sol®. Allow to dry.
4. Once dry, seal your decals with a matte varnish to protect them.

Your Vintage Coal Dealer structures and accessories are now ready to install on your railroad or diorama. Be sure to visit Walthers.com for more great products to meet all your modeling needs!

To register your Walthers product, please visit:
www.walthers.com/register-your-warranty

For warranty information on your Walthers product, please visit:
www.walthers.com/warranty

For assistance with missing or damaged parts, please visit trains.walthers.com/parts-warranty, call 1-800-4-TRAINS M-F from 8:00 AM to 4:30 PM CT, or write to us at Wm. K. Walthers, Inc. 5601 W. Florist Ave, Milwaukee, WI 53218. Please be aware all inquiries are handled in the order received.