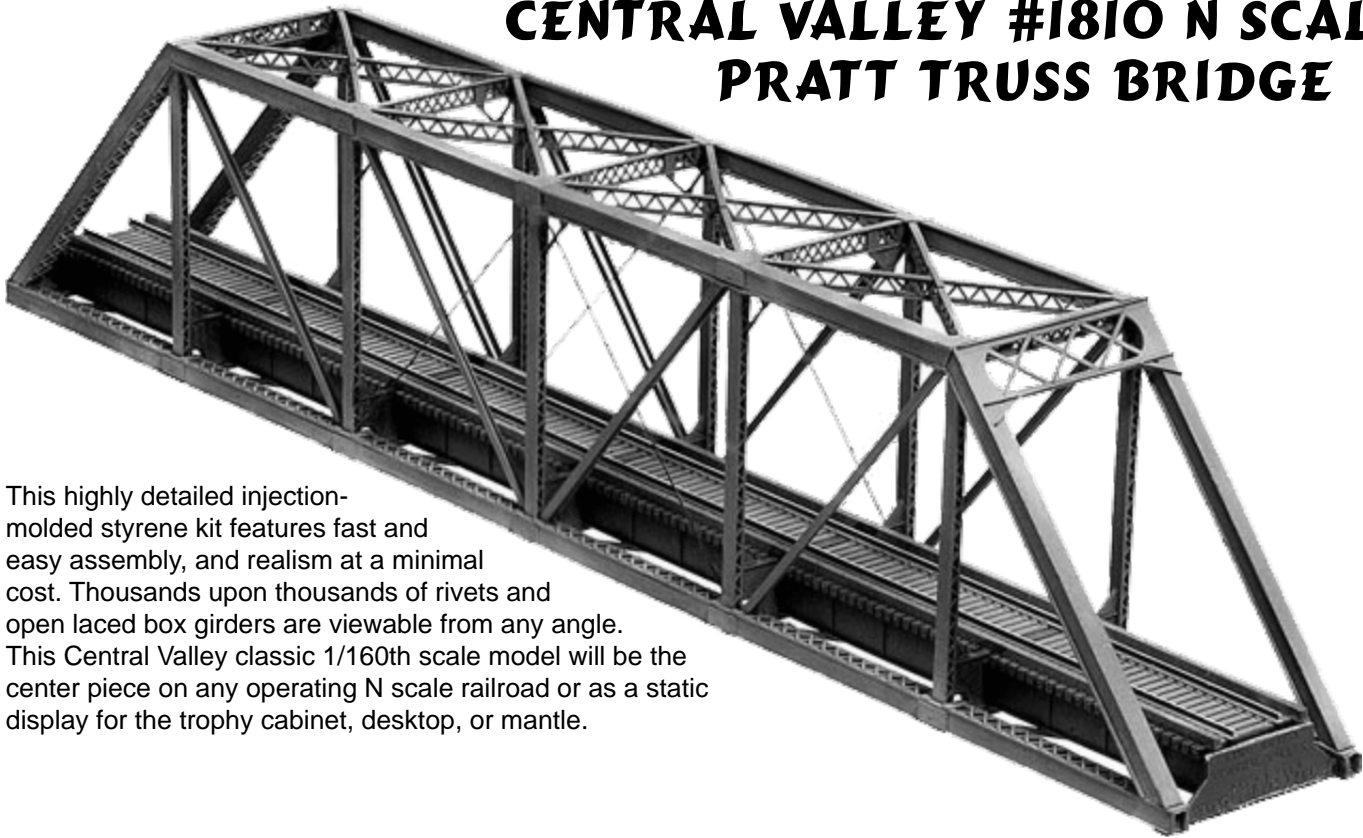


# CENTRAL VALLEY #1810 N SCALE 150' PRATT TRUSS BRIDGE



This highly detailed injection-molded styrene kit features fast and easy assembly, and realism at a minimal cost. Thousands upon thousands of rivets and open laced box girders are viewable from any angle. This Central Valley classic 1/160th scale model will be the center piece on any operating N scale railroad or as a static display for the trophy cabinet, desktop, or mantle.

## GENERAL NOTES

Read through all instructions before beginning project. Clean flash from parts before removing parts from sprues if possible. Cut, **DO NOT BREAK**, parts from sprues. Final de-gating and de-burring after assembly may be preferred. This bridge should be painted after assembly.

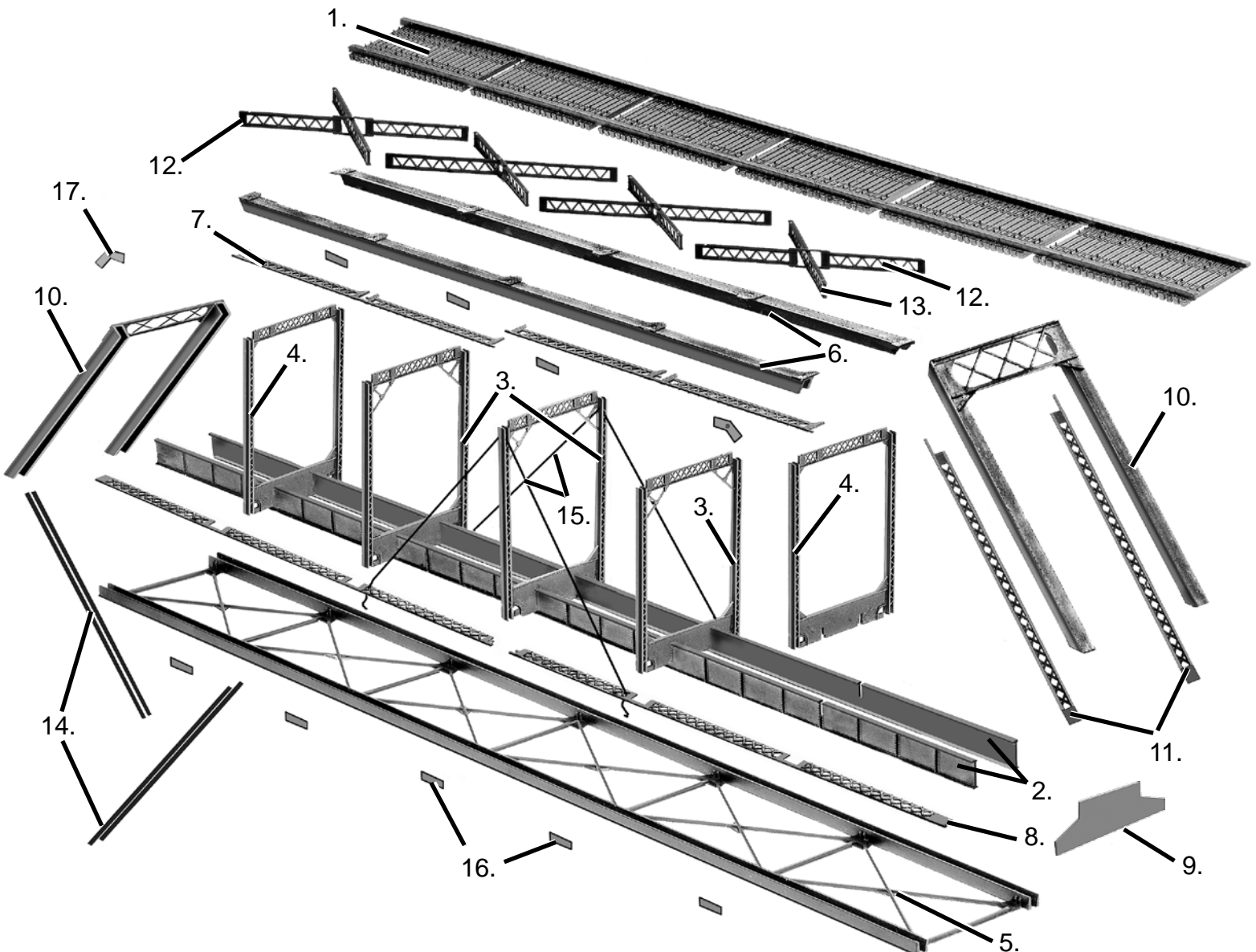
The prototype bridge, today is a dull, weathered, black beast with considerable rust staining in. The choice of color and aging is up to you, but is recommended that the model be painted with spray equipment or spray cans. Brushing techniques for rust spots and weathering would be used. The final result of your effort should stand out as a new "high" point in accessory structures. Until this kit was produced, only a tiny handful of "masterpiece" steel bridge models existed that would compare to the model you have just completed. It should be a showpiece on any layout - now think how easily you can build the second span!

### LEGEND (in order of assembly)

- |  |                                   |
|--|-----------------------------------|
| 1. Tie Section (1 pcs.)                    | 10. Portal (2 pcs.)               |
| 2. Stringer Sections (2 pcs.)              | 11. Portal Lace Detail (4 pcs.)   |
| 3. Inner Cross Bearer Frames (3 of 5 pcs.) | 12. Top Cross Lace (outer 4 pcs.) |
| 4. Outer Cross Bearer Frames (2 of 5 pcs.) | 13. Top Cross Lace (inner 4 pcs.) |
| 5. Bottom Section (1 pcs.)                 | 14. Diagonal Braces (16 pcs.)     |
| 6. Top Girder Channels (2 pcs.)            | 15. Black Thread                  |
| 7. Top Lace Detail (4 pcs.)                | 16. Rectangle Gussets (16 pcs.)   |
| 8. Bottom Lace Detail (4 pcs.)             | 17. Corner Gussets (4 pcs.)       |
| 9. End Plate / Logo. (2 pcs.)              |                                   |

### TOOLS AND MATERIALS REQUIRED

1. Modelers Knife (sharp #11)
2. Flush cutting nippers (de-gating tool)
3. Tweezers
4. Small flat ended punch (about 3/32" dia.)
5. Fine sand paper (240 - 320)
6. Styrene cement & brush (professional grade)
7. Fine steelwool
8. Painting apparatus & Paint
9. N scale rail (24 inches)



Read through all instructions before beginning project. Clean flash from parts before removing parts from sprues if possible. Cut, DO NOT BREAK, parts from sprues. Some small thin detail parts may break, in most cases these parts glue into place with no complications. Final de-gating and de-burring after assembly may be preferred. This bridge should be painted after assembly.

## ASSEMBLY INSTRUCTIONS ---- TEST FIT ALL PARTS BEFORE APPLYING ANY GLUE

# 1. ON A HARD SURFACE APPLY RAIL TO THE TIES (1) USING A SMEARING MOTION WITH A SMALL DIAMETER (about 3/32" diameter) FLAT PUNCH. (With a smearing motion push spikes over, work from the center-out alternating outside - to - inside of the rail foot)

# 2. FIT STRINGERS (2) INTO CROSS BEARER FRAMES (3) & (4).

(Press all 5 Cross Bearer Frames downward to insure they are completely seated into the stringer sections.)

(Do not glue & make sure all mating surfaces are even & smooth. Some light sanding may be required.)

# 3. ON A SMOOTH FLAT SURFACE FIT FRAME AND STRINGER PRE-ASSEMBLY INTO LOCATING NOTCHES ON THE BOTTOM SECTION (5).

FIT VERTICAL CROSS BEARER FRAME MEMBERS INTO GIRDER CHANNELS ON A SMOOTH FLAT SURFACE.

(Make sure all 5 frames are completely seated into the bottom section.)

APPLY GLUE INTO LOCATING NOTCHES AT BOTTOM CORNERS OF CROSS BEARER FRAMES.

# 4. ON A SMOOTH FLAT SURFACE WITH THE BRIDGE UP-SIDE-DOWN, FIT (ASSEMBLY #3) INTO TOP GIRDER CHANNELS (6).

(Make sure all center frames (3) are completely seated into the top girder channels (6).)

APPLY GLUE INTO LOCATING NOTCHES AT TOP CORNERS ONLY ON THE THREE CENTER CROSS BEARER FRAMES (3).

(Do not glue the outside frames (4).)

# 5. INSTALL THE TOP AND BOTTOM LACE DETAILS (7 & 8) GLUE WHILE VISUALLY ALIGNING MATING SURFACE STRAIGHT WITH GIRDER CHANNEL LEAVING THE OUTSIDE EDGE WITH AN OVERHANG / LIP. THE TOP LACE DETAIL (7) SHOULD BE ALIGNED WITH THE "E" SHAPED SLOT TOWARD THE ENDS OF THE BRIDGE.

(Remove and smooth out any excess plastic / gates on edges that face toward the inside of (8) and test fit all top and bottom lace details before applying glue. These parts are delicate and require special care.)

# 6. INSTALL END PLATE (9) IN LOCATING SLOTS IN BOTTOM SECTION (5) AND SECURE STRINGERS (2) WITH RIBS ON THE BACK OF THE END PLATE (9).

(Let the glue cure before continuing. The end plates create strength needed while locating the Portals.)

WITH A MODELERS KNIFE, NOW IS A GOOD TIME TO SMOOTH OUT ALL EXCESS PLASTIC AND IMPERFECTIONS ALONG ALL THE EDGES OVER THE ENTIRE ASSEMBLY.) USE A SMALL WAD OF FINE STEEL-WOOL GRASPED WITH TWEEZERS, RUB ALL REACHABLE SURFACES TO CLEAN AND REMOVE IMPERFECTIONS, GLUE SPOTS, AND LOOSE PLASTIC.

# 7. TRIM OFF ANY INTERFERING MATERIAL OF TOP LACE (8), THEN FIT AND ALIGN THE PORTALS (10) ONE AT A TIME. GLUE TOP CORNER WITH A PINCHING MOTION TO ALLOW SPACE FOR THE PORTAL LACE DETAIL (11).

(Make sure Portals (10) are clean and free of any obstructions along the angled surfaces)

# 8. FIT AND INSTALL PORTAL LACE DETAIL (11) TO THE INSIDE SURFACE OF THE PORTALS.

# 9. TRIM / TAPER THE ENDS OF BOTH TOP AND BOTTOM CROSS LACE'S (12 & 13). THEY WILL NEED TO BE FLEXED / BENT DURING INSTALLATION.

(Remove / taper about 1/64th" from the top and bottom edge. Start taper about 1/8th" off the ends.)

# 10. FIT AND INSTALL THE TOP CROSS LACE (outer) (12). APPLY GLUE AT THE ENDS.

(Install flat to reduce bend and then rotate between locating gussets to an up-right position.)

# 11. FIT AND INSTALL THE TOP CROSS LACE (inner) (13). APPLY GLUE AT ENDS.

(Install flat to reduce bending, thread through the outer lace (12) and then bend & rotate to final Position between locating gussets.)

# 12. FIT AND GLUE (optionally glue) DIAGONAL BRACES (14) INTO THE "E" SHAPED DETAIL OF (7 & 8) LACE DETAILS.

(You may prefer not to glue these in place. I found temperature changes caused these braces to pull on the structure)  
(Do inside braces first, slide them up and down before applying glue insure straightness.)

# 13. INSTALL BLACK THREAD (15) FEEDING THROUGH AND OVER CENTER CROSS BEARER FRAME (3) DOWN BETWEEN DIAGONAL BRACES (14) THROUGH BOTTOM SECTION (5) GLUE ONE END PULL STRAIGHT THEN GLUE TO HOLD.

#14. FIT AND INSTALL GUSSETS (16 & 17) ON OUTSIDE AT EACH CROSS BEARER SEGMENT.

#15. FIT THE TIES WITH RAIL INSTALLED THROUGH THE STRUCTURE AND LOCATE OVER CROSS BEARERS. APPLY GLUE FROM BOTTOM TO SECURE.

#16. TAKE A SMALL PEANUT SIZED WAD OF FINE STEEL-WOOL GRASPED WITH TWEEZERS, RUB ALL REACHABLE SURFACES TO CLEAN AND REMOVE IMPERFECTIONS, GLUE SPOTS, AND LOOSE PLASTIC. THE BRIDGE IS NOW READY TO PAINT AND WEATHER.

