



HO Structure Kit **SINGLE TRACK TRUSS BRIDGE** 933-3185

Thanks for purchasing this Cornerstone Series® kit. Please read these instructions and study the drawings before starting construction. All parts are made of styrene, so use compatible paint and glue to assemble and finish your model.

Since their introduction in the 1820s, truss bridges have been an important part of the railroad right-of-way. Bridges of this type feature a pair of frames arranged like a ladder, with roadway beams between, on top or beneath the bottom horizontal member. Diagonal members are added to the framed structure to create the truss and increase the overall strength of the structure.

While the earliest examples were built of wood, increasingly heavier cars and locos required a stronger structure. At first, key parts of cast iron were used, but bridges built entirely of iron soon appeared, followed by all-steel structures.

Truss bridges are typically built in locations that require a longer span than a deck or girder type bridge. In many places, the right-of-way has to clear an obstacle below, such as a navigable waterway, highway or another railroad. In these situations, the track is laid on the lower chord to create a through truss bridge.

Rugged and reliable, many bridges of this type built in the days of steam are still in use today.

ON YOUR LAYOUT

Your new bridge is typical of steel bridges constructed during the steam era, but has sufficient clearance for models of today's equipment. Structures of this type are always carefully inspected and maintained each year, so weathering should be kept to a minimum.

Perfect as a stand-alone model, Walthers Bridge Abutments (#933-1040) can be used to support your new model. Like the prototype, you can also combine two or more kits to build a multi-span bridge to cross rivers and similar large waterways. A Bridge Pier (#933-1041) will be needed to support the spans where they meet. Long crossings often required fixed approach bridges and a moveable span, so larger vessels could pass safely below. This can be modeled by combining your new kit with the Motorized Bascule Bridge #933-3070.

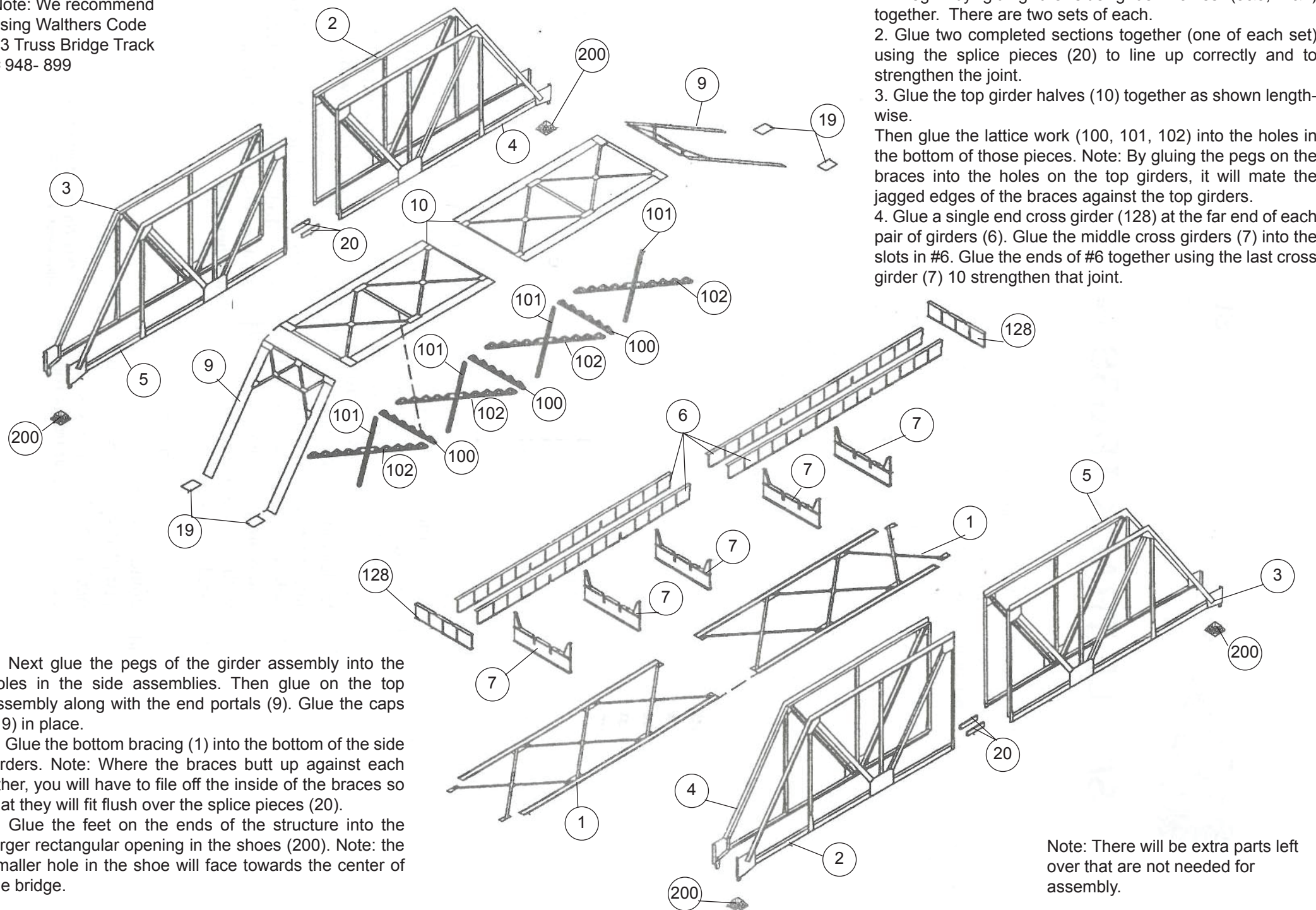
A derailment on a bridge could be a disaster, so railroads installed special tracks on the decks. In addition to the standard size rail that trains rode on,

slightly smaller guard rails were laid inside that forced cars to keep moving forward if a derailment did occur. This realistic detail can easily be added with Walthers Code 83 Bridge Track #948-886 with separate "V" approaches, or the single-piece #948-899: both are fully assembled with code 70 inside guard rails.

Railroads with double-track mainlines often used single-track bridges to reduce construction costs. In these locations, turnouts at each end funneled trains onto the single route. All switches, as well as signals regulating train movements, were controlled from an Interlocking Tower such as the Cornerstone Series #933-3071 kit, or the tower from the Built-ups Trackside Structure sets - (#933-2800, 2803 or 2810).

For additional products and ideas to detail your new bridge, visit our Web-site waltherscornerstone.com or see the latest Walthers HO Scale Model Railroad Reference Book.

Note: We recommend
using Walthers Code
83 Truss Bridge Track
948- 899



Note: There will be extra parts left over that are not needed for assembly.