

GENERAL NOTES:

Use 5-minute Epoxy or cyanoacrylate (Super Glue) for assembly

Lay out all parts and familiarize yourself with their location before assembly and dry fit all parts before gluing and painting.

Clean mold marks from castings using a #11 or #12 hobby knife, small files and sandpaper. Be careful not to make scratches across the wheel tires. If you intend to leave this area unpainted, polish the tires with steel wool and coat with clear lacquer.

In cleaning the castings, be careful not to destroy or damage the wood grain effect. If you inadvertently do so, you can re-establish the effect by drawing the edge of a file or riffler across the casting in the same direction as the existing wood grain.

Clear all holes with a sharp instrument or drill.

ASSEMBLY:

(1) Assemble FRONT and BACK of the AMMUNITION CHEST to the ENDS, noting tops and bottoms from illustration. Check for squareness and attach BOTTOM so that its end straps fit the recesses in the bottoms of the ENDS. Attach the HANDLES on the ENDS.

(2) Assemble PINTLE HOOK (Trail Hitch) to the recess in the AXEL HOUSING.

(3) Begin the CARRIAGE assembly by gluing the SPLINTER BAR (TREE) to the HOUND and FORK casting.

(4) Attach the FRONT FOOT BOARD. Note that it slants to the rear.

(5) Glue on the FORK STRAP.

(6) Attach the AXEL HOUSING to the HOUND AND FORK casting, PINTLE HOOK to the rear.

(7) Fit UNDER STRAPS over the AXEL HOUSING directly in line with the HOUNDS. CHAIN STUD on RIGHT STRAP goes to the rear, on LEFT STRAP to the front.

(8) Install MID BANDS into recess in FORKS, with flat under SPLINTER BAR.

(9) Install END BANDS to SPLINTER BAR ends with loop facing forward.

(10) Slide POLE between FORKS until it butts against the back stop. Mark location of the BUCKET HOOK, remove POLE and cut a notch for the BUCKET HOOK strap end.

(11) Cut the POLE to 8" long, then sand it round from the front end for a distance of 5". Note that it must fit the MUFF & COLLAR at 1 1/8" from the front end and the PAD on the end.

GUNS OF HISTORY

AMERICAN CIVIL WAR LIMBER

(12) Slide the POLE back between FORKS and lock in place with the BUCKET HOOK.

(13) Slip YOKE BRANCHES onto pivots on MUFF & COLLAR and squeeze the pivots to lock the BRANCHES so they are movable.

(14) Glue step 13 assembly onto POLE, 1 1/8" from the end with BRANCHES level and curved forward.

(15) Attach SLIDING RINGS to BRANCHES by crimping hooks.

(16) Glue POLE PAD to front end of POLE.

(17) Insert POLE STRAP (IRON) EYELET RINGS through slot in POLE STRAPS and glue these in place, right and left, immediately behind the PAD. Attach the split-ring EYELETS to RINGS as shown.

(18) The TRACE HOOKS (s-hooks) must be twisted so the loops are at right angles instead of flat. Cut two 1 1/2" lengths of chain and attach each end to a TRACE HOOK. For each chain, attach one TRACE HOOK to an END BAND and the other to a MID BAND.

(19) Cut a 3" length of chain for the LOCK CHAIN. Spread one link, double it back on itself as shown and close the link. Glue the free end to the stud under the left HOUND and the other "end" to the stud on the LEFT UNDER STRAP.

(20) Cut two 1" lengths of chain and glue one end of each to the stud on the outside rear of the HOUNDS and the other to the bottom of

the rear CHEST STRAPS. You may want to drill into the cast bolt head and insert a pin to facilitate this.

(21) Attach 1 1/4" of chain to the PINTLE KEY and the other end to the stud on the right UNDER STRAP.

(22) By spreading then crimping the ends, attach 1" of chain to the POLE PROP and one of the TRACE HOOKS on the FORK.

(23) Assemble the BUCKET as shown and hang from the BUCKET HOOK.

(24) To display the model with the POLE PROP in use, glue it into the hole under the SPLINTER BAR. To display with the PROP stowed, hang it between the left chain under the SPLINTER BAR and the LOCK CHAIN.

(25) Paint WHEELS to match carriage, with HUB BANDS and tire BOLTS black. Slide WHEELS (narrower hubs facing out) over AXELS. Secure with HUB CAPS & FIDS.

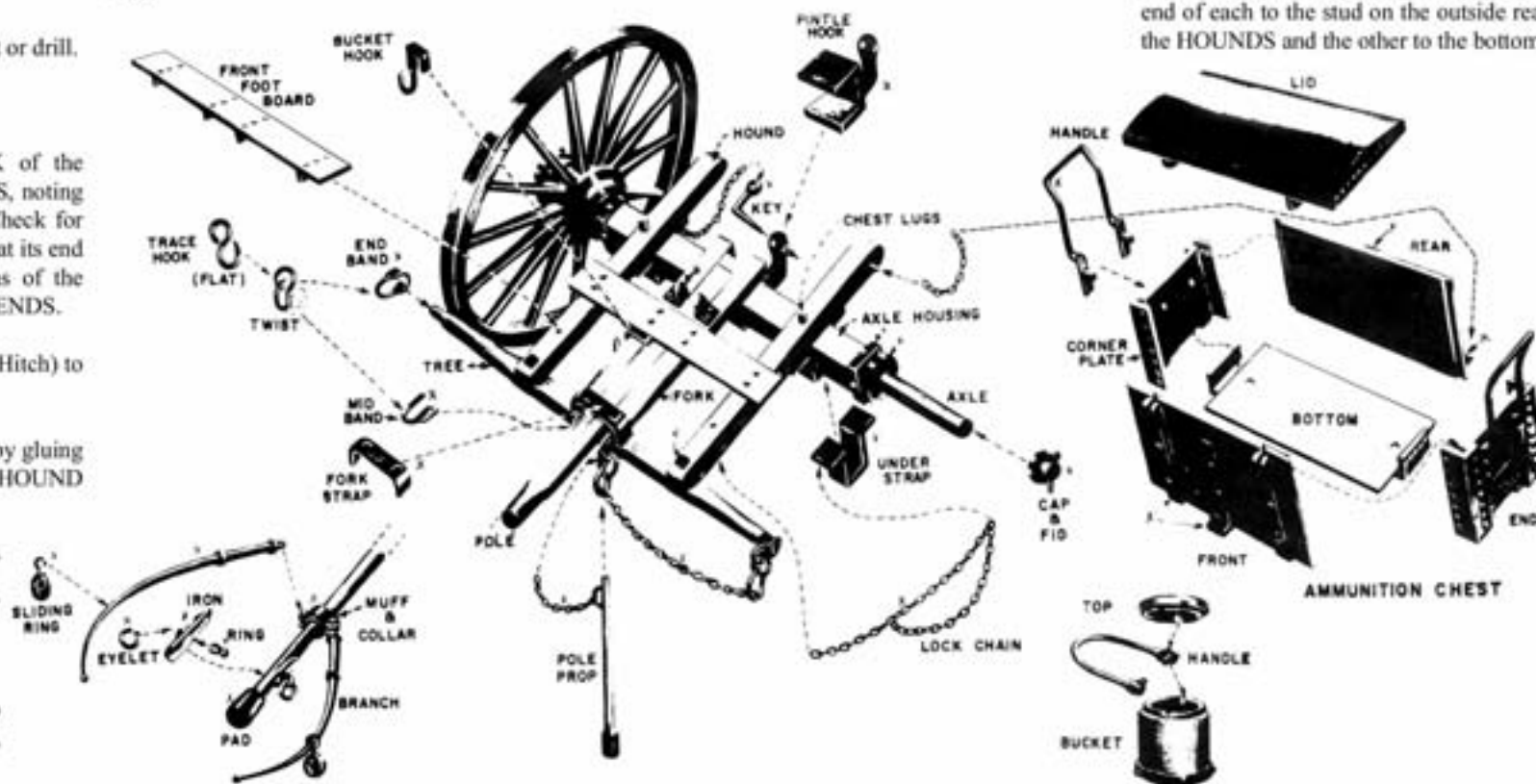
COLORS:

Paint the LIMBER light gray or olive drab, but, if displayed with one of our Civil War gun kits, use the same scheme for both. The exact shade would vary according to circumstances. Most batteries painted metal parts, marked with an "X" on the drawing, black.

This model is derived from the original Marine Model Company kit and has been updated by Model Shipways Inc. and Ken Goldman.



Manufactured by Model Shipways, Inc.
Sold & distributed by Model Expo
Hollywood, Florida USA
www.modelexpo-online.com



GENERAL NOTES:

Use 5-minute Epoxy to assemble the TRAILS and AXEL HOUSING. For the rest use either the Epoxy or cyanoacrylate (Super Glue).

Clean all mold marks from castings using a #11 or #12 hobby knife, small files and sandpaper.

Be careful not to make scratches across the wheel tires. If you intend to leave this area unpainted, polish the tires with steel wool and coat with clear lacquer.

In cleaning the castings, be careful not to destroy or damage the wood grain effect. If you inadvertently do so, you can re-establish the effect by drawing the edge of a file or rifler across the casting in the same direction as the existing wood grain.

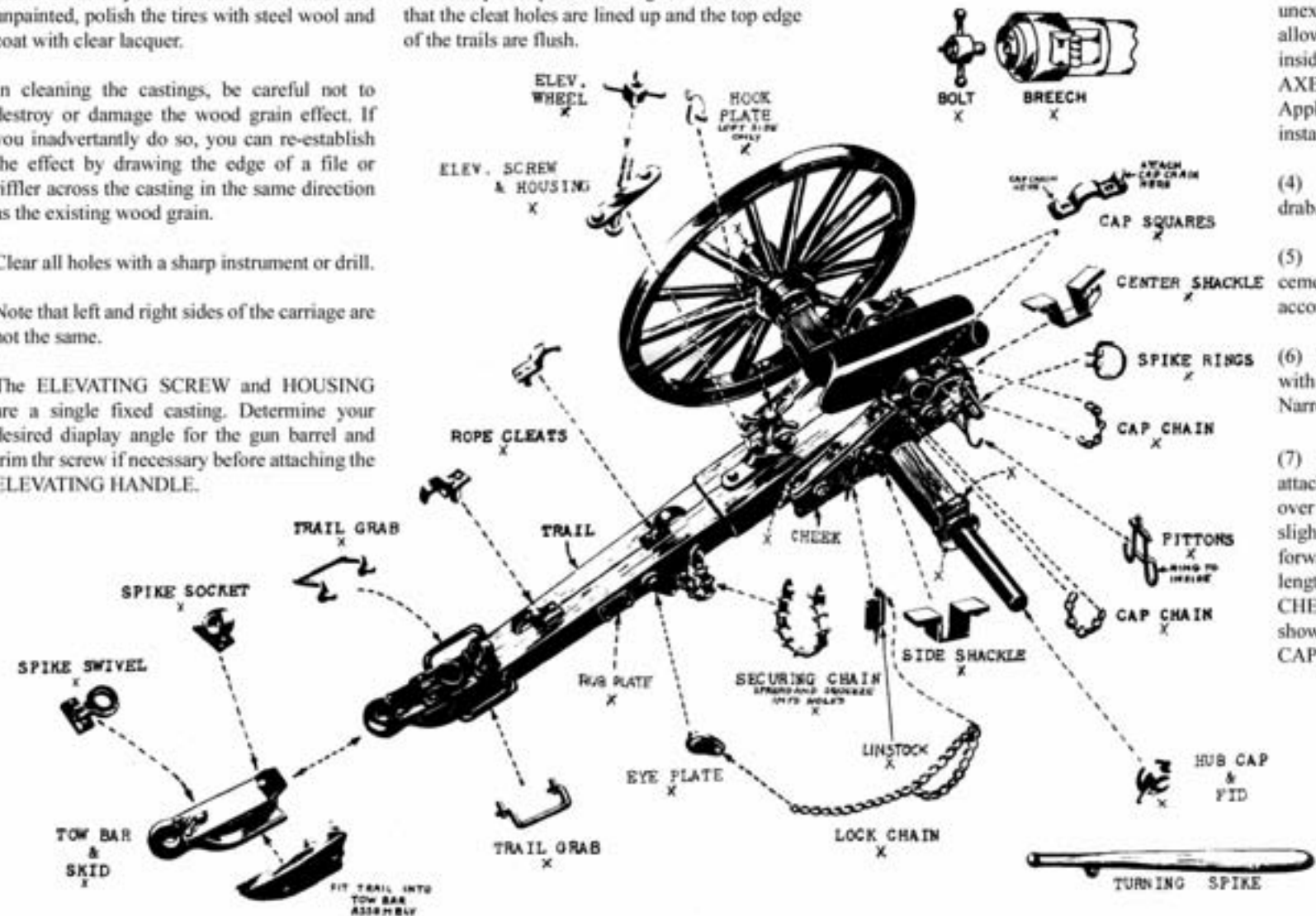
Clear all holes with a sharp instrument or drill.

Note that left and right sides of the carriage are not the same.

The ELEVATING SCREW and HOUSING are a single fixed casting. Determine your desired display angle for the gun barrel and trim the screw if necessary before attaching the ELEVATING HANDLE.

ASSEMBLY:

(1) Drop LEFT TRAIL into space on TOW BAR and SKID. (Do not try to force TOW BAR and SKID on from end.) Run a ribbon of cement along gluing edge and drop right trail in place. Install ELEVATING SCREW HOUSING in holes provided, apply cement to locating tips, and clamp complete unit together. Make sure that the cleat holes are lined up and the top edge of the trails are flush.



GUNS of HISTORY

AMERICAN CIVIL WAR

WHITWORTH BREECH-LOADING RIFLED CANNON

(2) Apply cement to SHIMS (discs) on inside of CHEEKS and in holes in TRAIL. Push CHEEKS into TRAIL holes. Make sure that CHEEKS are in line, level and square.

(3) Install AXEL HOUSING to CHEEK and TRAIL CUT-OUTS. Apply cement in unexposed areas. Align with TRAILS and allow to dry thoroughly. Apply cement to inside of CENTER SHACKLE and drop over AXEL HOUSING with HOOK forward. Apply cement to SIDE SHACKLES and install directly under each CHEEK.

(4) Paint this assembly light gray or olive drab. Paint SCREW HOUSING black.

(5) Paint all remaining parts black, apply cement to inside surfaces and pins and install according to the illustration.

(6) Paint WHEELS light gray or olive drab, with bands on hubs and tire bolts black. Narrower wheel hubs face out.

(7) Take 4" of chain, spread end link and attach one end to EYE PLATE, loop one ring over LINSTOCK as shown. There should be a slight droop. EYE PLATE bottom should slant forward. Cut remaining chain into four 1" lengths and attach ends to small pins on CHEEKS and TRUNION CAP SQUARES as shown. DO NOT YET GLUE TRUNION CAPS IN PLACE.

(9) Cement CAP SQUARES to CHEEKS, over TRUNION BARS.

(10) Spread cast SECURING CHAIN and squeeze into holes in TRAIL. Do not cement, allow to swing freely.

(11) Paint TURNING SPIKE black or dark brown, slip through LEFT SPIKE RING and hang its ring onto HOOK PLATE on LEFT CHEEK. This may be left loose or cemented in place.

(12) Assemble the BUCKETS. WATER BUCKET (tall one) is illustrated. GREASE BUCKET is similar. Hook WATER BUCKET on CENTER SHACKLE HOOK. GREASE BUCKET hangs from LEFT PITTON.

COLORS:

The complete carriage and wheels were painted a light gray or olive drab. The exact color would have varied from gun to gun. Most batteries painted all metal parts black. These parts are marked with an "X" on the illustration. The cast gun barrel was painted black.

If you want to show a coil of rope on the cleats, get a short length of mason's cord or similar and wrap in a figure-eight fashion around the cleats. Tying an eye splice in each end will complete the effect.

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