

GENERAL NOTES:

Use 5-minute Epoxy to assemble the TRAILS and AXLE 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 riffler 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.

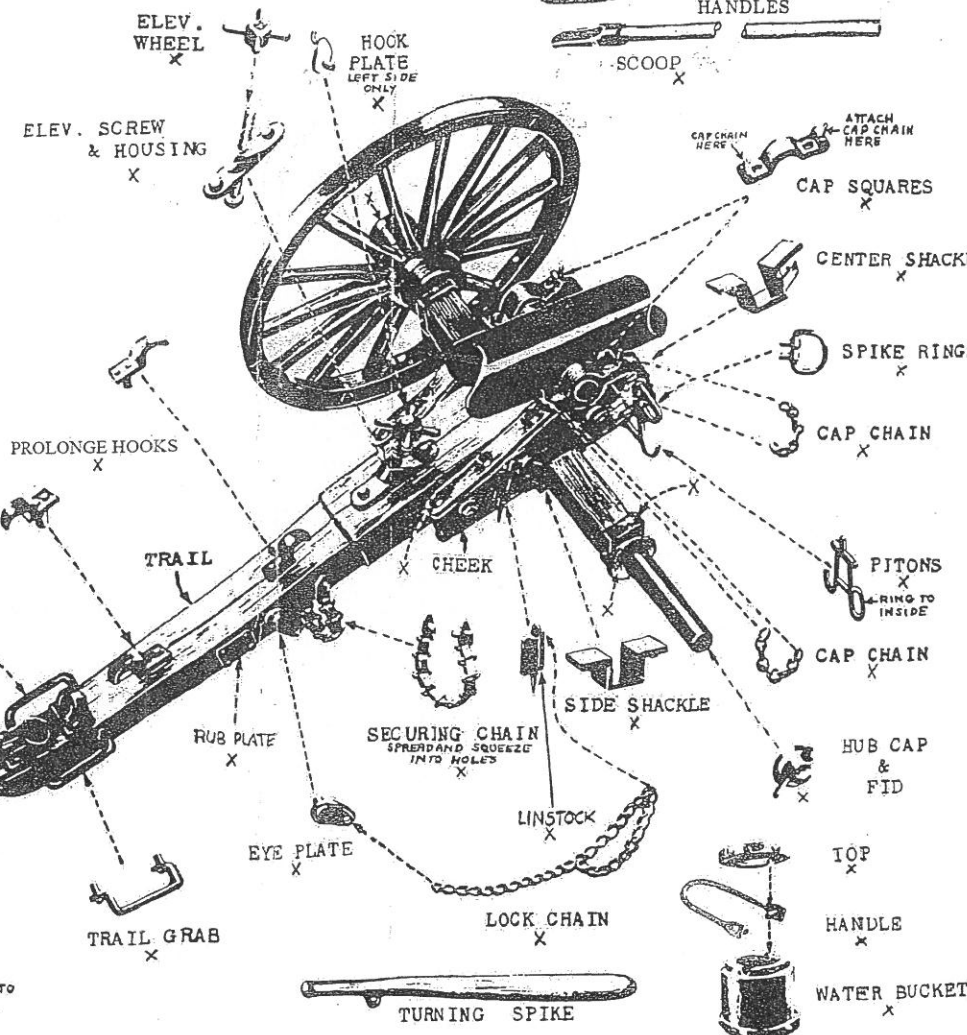
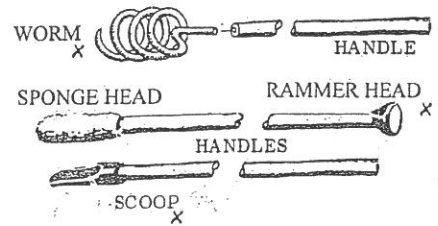
ASSEMBLY:

(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

### 3" WROUGHT IRON ORDNANCE RIFLE



(2) Dry fit CHEEKS to TRAIL using GUN BARREL to check alignment. Adjust as needed, then apply glue to SHIMS (discs) on CHEEKS and attach to TRAIL sides.

(3) Install AXLE 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 AXLE 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 olive drab or light gray with bands on hubs, tires and tire bolts black. Slide on WHEELS (narrower hubs out), trim AXLE ends if needed and attach HUB CAPS.

(7) Emplace CANNON on CHEEKS and cement CAP SQUARES to CHEEKS over TRUNION BARS.

(8) Take 3.5" of chain, spread end link and attach on itself 15 links from that end. Likewise attach the other end to the EYE PLATE. Hook the looped end over the LINSTOCK. Cut remaining chain into four 1" lengths and attach ends to small pins on CHEEKS and CAP SQUARES as shown.

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

(10) Paint TURNING SPIKE black or dark brown, slip through LEFT SPIKE RING and hang its ring onto HOOK PLATE on LEFT CHEEK.

(11) 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 PITON hook.

(12) Fit the SPONGE HEAD and RAMMER HEAD to opposite ends of one 1/8" x 4" dowel, the SCOOP to another 1/8" x 4" dowel. Use the provided wire to fashion the WORM (1/8" ID) and insert this into the third dowel. Paint the SPONGE dirty tan; paint the dowels black or stain them dark wood. The RAMMER/SPONGE hangs on the right PITON hook with the ram end through the SECURING CHAIN. The WORM and SCOOP handles go through the PITON rings, then through the hanging water bucket handle to the SECURING CHAIN.

(13) To make the PROLONGE seize an eye in the ends of the provided cordage using the provided thread. Catch an eye on one PROLONGE HOOK and loop the cord around both, figure-eight fashion. Catch the second eye on the other HOOK.

COLORS:

The complete Union carriage was painted olive drab. CSA captures and copies would have been either that or light gray. Exact colors varied from gun to gun. Most batteries painted all metal parts black. These are marked with an "X" in the illustration. The wrought iron gun tube also was black.

This model is derived from the original Marine Model Company artillery carriage and has been adapted by Model Shipways, Inc. and Ken Goldman.

