

**DESCRIPTION AND RULES
FOR THE MANAGEMENT OF
THE U.S. MAGAZINE RIFLE
AND CARBINE: CALIBRE 30**

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Description and Rules for the Management of the U.S. Magazine Rifle and Carbine: Calibre 30
by Various

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Fig 1



Fig 2



U. S. Magazine Rifle and Carbine.

Since the adoption of this arm the following changes have been made by the authority of the Chief of Ordnance:

BARREL.—Muzzle rounded in Model 1896.

BAYONET BLADE.—Bluing stopped April 1, 1895.

BAYONET SCABBARD HOOK.—Oscillation limited to 100° , April 17, 1897.

BAYONET SCABBARD MOUTHPIECE.—Aperture for blade made rectangular, July 15, 1895.

BOLT.—About one-fourth of left side of guide rib removed, June 17, 1895.

Slot for securing stud omitted, June 29, 1895.

Length of flat surface on underside of handle increased in Model 1898.

BUTT PLATE.—Thickness increased $0''.04$, toe curved, cap hole and spring lug added in Model 1896.

BUTT PLATE CAP, CAP PIN, CAP SPRING, AND CAP SPRING SCREW.—Added in Model 1896.

BUTT PLATE SCREW, LARGE.—Head made flat in Model 1896.

CARRIER.—Magazine Spring lug shortened, March 4, 1895.

Arbor made perpendicular to top and shortened $0''.02$, and distance between lug and bottom side of body decreased $0''.02$ in Model 1898.

COCKING PIECE.—Made of high instead of low steel, August 1, 1895.

Rear part of lug beveled and locking notch added in Model 1896.

CUT-OFF.—Blued instead of spring tempered, July 15, 1895.

Thickness of thumb-piece increased $0''.015$ and slot for flat spring replaced by spring spindle hole, April 30, 1895.

Flattening of spindle reversed, length of spindle decreased $0''.5$, rear upper edge of thumb-piece beveled and fillet added at junction of spindle and thumb-piece in Model 1898.

CUT-OFF SPRING.—Flat replaced by spiral pattern, April 30, 1895.

CUT-OFF SPRING SPINDLE.—Added, April 30, 1895.

Length increased $0''.013$, August 6, 1895.

EJECTOR PIN.—Head rounded and length increased, January 28, 1895.

- EXTRACTOR.**—Depth of extractor spring pivot hole increased 0''.028, September 3, 1895.
Extractor pin lug added in Model 1896.
Fillet added at junction of underside of body and heel, January 25, 1896.
- EXTRACTOR SCREW.**—Replaced by Extractor Rivet in Model 1896.
- EXTRACTOR PIN.**—Added in Model 1896.
- FRONT SIGHT STUD.**—Width of slot reduced to 0''.05 in Model 1896.
- FRONT SIGHT.**—Height of top above axis of bore increased from 0''.82 to 0''.85, June 20, 1894. Thickness made 0''.05 throughout, and shape of top changed in Model 1896.
- FRONT SIGHT PIN.**—Length increased and taper changed in Model 1896.
- GATE.**—Length of lug reduced 0''.0065, April 1, 1895. Fillet added at junction of lug and hinge, October 8, 1895.
Shape of exterior and interior of front end changed, October 8, 1895.
Curvature of exterior and shape of interior at rear end changed, and the bevel on the front part of the interior of the top omitted in Model 1898.
- GUIDE LIP.**—Tenon to enter groove in receiver omitted, Sept. 8, 1894.
Thickness increased in Model 1896.
- HAND GUARD BODY.**—Extended rearward over tenon of receiver and heads of rivets countersunk deeper in Model 1896.
- HAND GUARD RIVETS, FRONT AND REAR.**—Shortened in Model 1896.
- HAND GUARD SPRINGS.**—Crimp omitted in Model 1896.
- HINGE BAR PIN.**—Blued instead of spring tempered, July 15, 1895.
- HINGE BAR HEAD.**—Rear right edge rounded, May 11, 1895.
Fillet added at junction of spring and head, June 4, 1895.
Width of lug on spring reduced 0''.03, Jan. 30, 1896.
- MAIN SPRING.**—Length increased from 30½ to 33½ coils, in Model 1896.
Weight reduced from 18 to 22 pounds to 16 to 18 pounds in Model 1898.
- RAMROD.**—Omitted in Model 1896.
- RAMROD STOP.**—Omitted in Model 1896.
- CLEANING ROD.**—Made jointed and inserted in butt of stock in Model 1896.
- REAR SIGHT.**—Model 1892 became obsolete and Model 1896 adopted Nov. 26, 1895.
Graduations corrected by experimental firing, June, 1898.
- REAR SIGHT BASE SCREW, FRONT.**—Body reduced in length 0''.01, end made flat and thread cut nearer head in Model 1896.
Made identical with the Carbine rear sight base screw, front, July 1, 1898.

- REAR SIGHT BASE SCREW, REAR.**—Body reduced in length 0''.01, end made flat and thread cut nearer head in Model 1896.
- REAR SIGHT JOINT SCREW.**—Tenon for thread increased in length in Model 1896.
- RECEIVER.**—Groove for guide lip tenon omitted, Sept. 8, 1894.
 Slot for ejector pin head omitted, Jan. 28, 1895.
 Walls of trigger heel slot omitted, May 27, 1895.
 Depth of cut-off spring spindle recesses increased, Oct. 15, '95.
 Extractor pin notch added in Model 1896.
 The following changes were embodied in the Model 1898, viz:
 Cut-off hole reduced 0''.5 in depth and position slightly changed.
 Width of mortise for side plate tenon increased 0''.02.
 That part of the bolt handle seat projecting beyond tang omitted.
 Outside of right wall over gate beveled.
 Bearing for top side of carrier, in carrier arbor cavity, lowered 0''.02.
 That part of the left wall of the magazine spring channel projecting beyond the bottom wall omitted.
 Mark on side of tenon for position of barrel omitted.
 Top of carrier arbor ear lowered to project only slightly above top of gate.
 Bottom of magazine spring channel made parallel to bottom of magazine.
- SAFETY LOCK.**—Thickness of thumb-piece increased; thumb-piece and spindle made separate, and spring and spring spindle added in Model 1896.
- SAFETY LOCK SPINDLE.**—Depth of safety lock pin groove in Model 1892 reduced: (see sleeve). The spindle with deep groove is known as Model 1892, 2nd pattern; and with the shallow groove, as Model 1892, 3rd pattern.
- SAFETY LOCK PIN.**—Omitted in Model 1896.
- SEAR.**—Made of low instead of high steel, Oct. 25, 1895.
 Nose shortened 0''.005, Nov. 26, 1895.
- SIDE PLATE.**—Hole for ejector pin head added, Jan. 28, 1895.
 Thickness of upper half increased and cartridge rib lengthened, in Model 1896.
 Thickness of tenon increased 0''.02 in Model 1898.
- SIDE PLATE SCREW.**—Shortened in length one thread, June 1, 1894.

- SLEEVE.**—Safety lock pin hole raised 0".03, Oct. 22, 1894.
The sleeve with low safety lock pin hole is known as Model 1892, 1st pattern, and with high hole as Model 1892, 2nd pattern.
Securing stud and rivet omitted, June 29, 1895.
Knurling omitted, June 15, 1895.
The following changes were embodied in the Model 1896:—
Safety lock pin hole omitted.
Front end of barrel shortened 0".0345.
Thickness of extractor arm reduced 0".035.
Countersink for screw head omitted, and lower part of rivet hole countersunk for rivet head.
Groove with a recess at each end added for safety lock spring spindle.
- STOCK.**—Changes embodied in Model 1896:—
Small enlarged.
Toe rounded.
Two holes, 1" in diameter, to decrease the weight, and three small holes for cleaning rod drilled in butt.
Oiler seat cut between large holes.
Channels cut under barrel to decrease the weight.
Ramrod groove and stop slot omitted.
Bolt handle seat changed in Model 1898.
- STRIKER.**—Point rounded, Dec. 2, 1895.
- TRIGGER.**—Case-hardened in water instead of in oil, April 2, 1894.
- TRIGGER PIN.**—Length reduced 0".045, Nov. 15, 1895.
- UPPER BAND.**—Middle portion over barrel removed, Aug. 16, 1894.
Bushing for ramrod omitted in Model 1896.

COMPONENT PARTS OF RIFLE.

99 IN NUMBER.

Barrel:	Front Sight.
Barrel.	Front Sight Pin.
Front Sight Stud.	Gate.
Bolt.	Guard.
Butt Plate.	Guard Screw, front.
Butt Plate Cap.	Guard Screw, rear.
Butt Plate Cap Pin.	Hand Guard:
Butt Plate Cap Spring.	Hand Guard Body.
Butt Plate Cap Spring Screw.	Hand Guard Rivets, front (2).
Butt Plate Screw, large.	Hand Guard Rivets, rear (2).
Butt Plate Screw, small.	Hand Guard Spring, front.
Butt Swivel.	Hand Guard Spring, rear.
Butt Swivel Pin.	Hinge Bar:
Butt Swivel Plate.	Hinge Bar Head.
Butt Swivel Plate Screws (2).	Hinge Bar Pin.
Carrier.	Lower Band.
Cleaning Rod, 1st section.	Lower Band Pin.
Cleaning Rod, 2nd and 3rd sections.	Lower Band Swivel.
Cut-Off.	Lower Band Swivel Screw.
Cut-Off Spring.	Magazine Spring.
Cut-Off Spring Spindle.	Main Spring.
Ejector.	Rear Sight Base.
Ejector Pin.	Rear Sight Base Screw, front.
Extractor.	Rear Sight Base Screw, rear.
Extractor Pin.	Rear Sight Base Spring.
Extractor Rivet.	Rear Sight Joint Screw.
Extractor Spring.	Rear Sight Leaf.
Firing Pin:	Rear Sight Slide.
Cocking Piece.	Rear Sight Slide Cap.
Firing Pin Rod.	Rear Sight Slide Cap Screw.
Follower.	Rear Sight Slide Pin.
Follower Pin.	Rear Sight Slide Screw.

Rear Sight Slide Spring.	Stock.
Receiver :	Striker.
Receiver.	Trigger.
Guide Lip.	Trigger Pin.
Guide Lip Rivet.	Upper Band.
Safety Lock :	Upper Band Screw.
Safety Lock Spindle.	Bayonet :
Safety Lock Spring.	Bayonet Blade.
Safety Lock Spring Spindle.	Bayonet Catch.
Safety Lock Thumb Piece.	Bayonet Catch Nut.
Sear.	Bayonet Catch Spring.
Sear Spring.	Bayonet Grip, Body, right.
Side Plate.	Bayonet Grip, Body, left.
Side Plate Screw.	Bayonet Grip, Rivets (2).
Sleeve.	Bayonet Grip, Washers (4).
Stacking Swivel.	Bayonet Guard.
Stacking Swivel Screw.	Bayonet Pommel.



**DESCRIPTION
AND NOMENCLATURE OF RIFLE.**

The **BARREL**, Fig. 3, has the *muzzle*, A, rounded to protect the rifling; *front sight stud* and *front sight pin hole*, B; *rear sight screw holes*, C; *tenon*, D, on which is a thread for securing the receiver to the barrel; and the *face*, E, which supports the rim of the cartridge case. The *chamber*, Fig. 4, is made slightly conical to facilitate the withdrawal of the cartridge case and has two contractions, the rear one, A, called the *shoulder*, and the front one, B, the *throat*; immediately in front of the throat the bore is enlarged to form the *bullet seat*, C. The rifling begins in the throat. A *slot*, D, is cut in the rear end of the barrel to receive the extractor hook. The *muzzle* and the *front sight stud* are shown in Fig. 5. The stud is brazed to the barrel in manufacture; the slot, E, is the *front sight seat*.

Fig. 5.



Fig. 4.

