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may remain in it a long time without fatigue.

125. Finally, the instructor will take great care that the piece, at a shoulder, be not carried too high nor too low : if too high, the right elbow would spread out, the soldier would occupy too much space in his rank, and the piece be made to waver ; if too low, the files would be too much closed, the soldier would not have the necessary space to handle his piece with facility, the right arm would become too much fatigued, and would draw down the shoulder.

126. The instructor, before passing to the second lesson, will cause to be repeated the movements of *eyes right*, *left* and *front*, and the *facings*.

Lesson II : *Manual of Arms*

127. The manual of arms will be taught to four men, laced, at first, in one rank, elbow to elbow, and afterwards in two ranks.

128. Each command will be executed in one *time* (or pause), but this time will be divided into motions, the better to make known the mechanism.

129. The rate (or swiftness) of each motion, in the manual of arms, with the exceptions herein indicated, is fixed at the ninetieth part of a minute ; but, in order not to fatigue the attention, the instructor will, at first, look more particularly to the execution of the motions, without requiring a nice observance of the cadence, to which he will bring the recruits progressively, and after they shall have become a little familiarized with the handling of the piece.

130. As the motions relative to the cartridge, to the rammer, and to the fixing and unfixing of the bayonet, cannot be executed at the rate prescribed, nor even with a uniform swiftness, they will not be subjected to that cadence.

regulations," (Philadelphia : J.B. Lippincott & Co., 1864)

Kelton, Lt. John Cunningham, "*A new manual of the bayonet for the army and militia of the United States*," (New York : D. Van Nostrand, 1862)

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War Department, United States, "*U.S. Infantry Tactics : For the Instruction, Exercise, and Manœuvres of the United States Infantry*," (Philadelphia : J.B. Lippincott & Co., 1861)

Upton, Bvt. Maj. Gen. Emory, "*Infantry Tactics, Double and Single Rank, Adapted to American Topography and Improved Fire-arms*," (New York : D. Appleton and Co., 1868, 1875)



135. (*Third motion.*) Drop the right hand by the side.

136. When the instructor may wish to give repose in this position, he will command :

REST.

137. At this command, the recruits will bring up smartly the right hand to the handle of the piece (small of the stock), when they will not be required to preserve silence, or steadiness of position.

138. When the instructor may wish the recruits to pass from this position to that of silence and steadiness, he will command :

1. *Attention.* 2. SQUAD.

139. At the second word, the recruits will resume the position of the third motion of *support arms*, No. 135, by dropping the right hand by the side.

Shoulder — ARMS.

One time and three motions.

140. (*First motion.*) Grasp the piece with the right hand under and against the left fore-arm ; seize it with the left hand at the lower band, the thumb extended ; detach the piece slightly from the shoulder, the left fore-arm along the stock.

141. (*Second motion.*) Carry the piece vertically to the right shoulder with both hands, the rammer to the front, change the position of the right hand so as to embrace the guard with the thumb and fore-finger, slip the left hand to

successively to form files, two deep, to the right of those already formed.

When the company is in good discipline, the men will take their places in ranks without any preliminary formation.

The instructor will then cause the files to be numbered, and for this purpose will command :

In each rank — Count TWOS.

Hardee, SoC 5. At this command, the men count in each rank, from right to left, pronouncing in a loud and distinct voice, in the same tone, without hurry and without turning the head, *one, two*, according to the place which each one occupies. He will also cause the company divided into platoons and sections, taking care that the first platoon is always composed of an even number of files.

Root. The Orderly will now command :

Corporals to the Front.

At this order, every *Corporal*, who finds himself in the rear rank, will slightly touch the back of the man in front of him, and the two will exchange places, quietly.

Assured that the *First* and *Fourth Corporals* are in their proper posts, the Orderly will pass to the left of the first section, and call out,

Corporal on the left of the first section.

Corporal on the right of the second.

These two *Corporals* will promptly present themselves to be posted.

It may be necessary, for the front rank to take a side-step to the left or right, leaving space for the *Corporal* on the Left of the First Section. The Orderly will command to the front rank,

"Take to the right (or left),"

as he sees need. By taking ground to the left or right, the vacancy made by the *Corporal's* stepping out will be filled



Order — ARMS
One time and two motions.

147. (*First motion.*) Seize the piece briskly with the left hand near the upper band, and detach it slightly from the shoulder with the right hand : loosen the grasp of the right hand, lower the piece with the left, reseize the piece with the right hand above the lower band, the little finger in the rear of the barrel, the butt about four inches from the ground, the right hand supported against the hip, drop the left hand by the side.

148. (*Second motion.*) Let the piece slip through the right hand to the ground by opening slightly the fingers, and take the position about to be described.

Position of Order Arms.

149. The hand low, the barrel between the thumb and fore-finger extended along the stock ; the other fingers extended and joined ; the muzzle about two inches from the right shoulder ; the rammer in front ; the toe (or beak) of the butt, against, and in a line with, the toe of the right foot, the barrel perpendicular.

150. When the instructor may wish to give repose in this position, he will command :

REST.

151. At this command, the recruits will not be required to preserve silence, steadiness or [Hardee SoS 73] remain in place.

of the battalion.

24. The *corporals* will be posted in the front rank, as prescribed in No. 8.

25. Absent officers and sergeants will be replaced — officers by sergeants, and sergeants by corporals. The colonel may detach a first lieutenant from one company to command another, of which both the captain and first lieutenant are absent ; but this authority will give no right to a lieutenant to demand to be so detached.

TITLE THIRD.

SCHOOL OF THE COMPANY.

Manner of Forming the Company.

Kautz NCO 428. The company is formed in the interval between the *musicians' call* and the last note of the *assembly*, when every man should be in ranks ; and those who fall in afterwards should be punished for being late.

If the company is forming without arms, the men fall in and take the position of *parade rest*, and the first sergeant takes the same position. With arms, they fall in at *shoulder arms* instead of *parade rest*.

Gilham, 216. THE whole company being assembled on its parade ground, or in the rendezvous, the first, or orderly sergeant, will command :

Fall in — COMPANY.

At this command, the corporals and privates will form in one rank, faced to the right, and in the order of height from right to left, the tallest man on the right (now head of the company), the next tallest man immediately covering the first, and so on to the left or rear of the rank, in which position will be placed the shortest man.

Baxter. The height of shoulders will be the point to

and fore-finger embracing the guard ; press the piece against the shoulder with the left hand) the right arm nearly straight.

155. (*Second motion.*) Drop the left hand quickly by the side.

Load in nine times.

1. LOAD.*

One time and three motions.

156. (*First motion.*) Same as the first position of present arms, No. 143, which is : with the right hand, bring the piece erect before the centre of the body, the rammer to the front ; at the same time seize the piece with the left hand half-way between the guide sight and lower band, the thumb extended along the barrel and against the stock, the fore-arm horizontal and resting against the body, the hand as high as the elbow.



(*Second motion.*) Carry the piece to the left side with the left hand—butt upon the ground—barrel to the front—piece inclined to the right and front resting along the left thigh, muzzle six inches in front of the centre of the body—right hand grasping the piece just below the upper band, and the left hand extending upon the piece.

(*Third motion.*) Seize the piece with the left hand at the muzzle and carry the right hand to the cartridge box.

*Whenever the loadings and firings are to be executed the instructor will cause the cartridge boxes to be brought to the front.

vertical, forearm horizontal ; grasp the piece at the lower band with the left hand, back to the left, the thumb pointing downward ; bring the right foot by the side of the left.

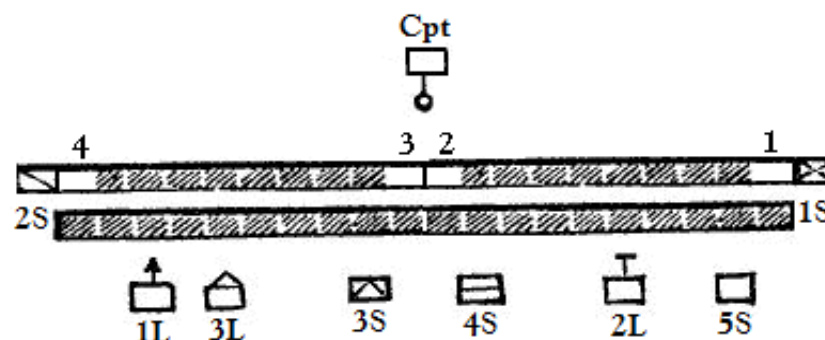
(*Second motion.*) Reverse the piece with both hands, the butt passing between the breast and right forearm ; resume the carry with the right hand.

(*Third motion.*) Drop the left hand by the side.

TITLE FIRST.

ARTICLE FIRST.

Formation of a Regiment in order of battle, or in line.



Addressing a company in two ranks.

8. The formation of a regiment is in two ranks ; and each company will be formed into two ranks, in the following manner : the *corporals* will be posted in the front rank, and on the right and left of platoons, according to height ; the tallest corporal and the tallest man will form the first file, the next two tallest men will form the second file, and so on to the last file, which will be composed of the shortest corporal and the shortest man.

9. The odd and even files, numbered as one, two, in the company, from right to left, will form groups of four men, who will be designated *comrades in battle*.



**Seize
rammer.**

extending the right arm ; steady it in this position with the left thumb ; seize the rammer between the thumb and forefinger of the right hand, the thumb under and finger over the rammer ; fingers extended, palm of the hand to the front.

161. (*Second motion.*) Clear the rammer from the pipes by again extending the arm ; the rammer in the prolongation of the pipes, palm of the hand to the front.

162. (*Third motion.*) Turn the rammer by closing the fingers, the little end passing near the left shoulder, turning the back of the hand to the front ; steady it by extending the forefinger of the right hand ; place the head of the rammer on the ball, the rammer in prolongation of the barrel.



**Clear
rammer.**

6. *Ram – CARTRIDGE.*
One time and one motion.

163. Insert the rammer as far as the right, and steady it in this position with the thumb of the left hand ; seize the rammer at the small end with the thumb and fore-finger of the right hand, the back of the band to the front ; press the ball home, the elbows near the body.

7. *Return – RAMMER.*
One time and three motions.

164. (*First motion.*) Draw the rammer half-way out, and steady it in this position with the left thumb ; grasp it



Reverse Arms.

and right forearm ; the right hand grasping the small of the stock at the height of the shoulder, the barrel to the front and vertical ; the fingers of the left hand extended, and joined in front of the barrel, the little finger at the lower band.

(*Third motion.*) Press the muzzle to the rear with the left hand, the piece inclined at an angle of forty-five degrees ; steady it in this position by pressure of the right elbow against the body ; carry the left hand behind the back and grasp the piece between the bands.

1. *Carry.* 2. **ARMS.**

(*First motion.*) Let go the piece with the left hand, and regasp it in front at the lower band, back of the hand to the left, the thumb pointing downward, the right forearm horizontal, the barrel vertical.

(*Second motion.*) Reverse the piece with both hands, the butt passing between the breast and right forearm ; resume the carry with the right hand.

(*Third motion.*) Drop the left hand by the side.

90. When necessary to march long distances with arms reversed, the piece may be changed to a corresponding position under the left arm by the commands :

1. *Left Reverse.* 2. **ARMS.**

The piece is placed under the left arm with the right hand, the left hand carried to the small of the stock, the right hand behind the back.

with the eye.

168. (*Second motion.*) Half cock with the thumb of the right hand, the fingers supported against the guard and the small of the stock—remove the old cap with one of the fingers of the right hand, and with the thumb and fore-finger of the same hand take a cap from the pouch, place it on the nipple, and press it down with the thumb ; seize the small of the stock with the right hand.

9. *Shoulder* – ARMS.
One time and two motions.

169. (*First motion.*) Bring the piece to the right shoulder and support it there with the left hand, face to the front ; bring the right heel to the side of and on a line with the left ; grasp the piece with the right hand as indicated in the position of *shoulder arms*.

170. (*Second motion.*) Drop the left hand quickly by the side.

READY.
One time and three motions.

171. (*First motion.*) Raise the piece slightly with the right hand, making a half face to the right on the left heel ; carry the right foot to the rear, and place it at right angles to the left, the hollow of it opposite to, and against the left heel; grasp the piece with the left hand at the lower band and detach it slightly from the shoulder.

172. (*Second motion.*) Bring down the piece with both hands, the barrel upwards, the left thumb extended along the stock, the butt below the right fore-arm, the small of the stock against the body and two inches below the right breast, the

When the right hand is at liberty.

Ellsworth 293. Salute by touching the back of the hand to the visor of the cap, throwing it easily and gracefully to the front, until the arm is nearly extended, and drop the hand to the side.

294. To deliver a package, paper, or anything of a like nature, when the piece is carried. Halt one pace from the person to be saluted, bring the piece to the position of *arms port* holding it in this position with the left hand ; salute with the right, deliver the package, *shoulder arms*, salute with the left hand, and return.

295. If a message is simply to be delivered, if at *support arms*, salute with the right hand ; if at *shoulder*, salute with the left.

Compliments by sentinels.

C.S. Regulations, 407. Sentinels will *present arms* to general and field officers, to the officer of the day, and to the commanding officer of the post. To all other officers they will *carry arms*.

408. When a sentinel in his sentry-box sees an officer approaching, he will stand at *attention*, and as the officer passes will salute him, by bringing the left hand briskly to the musket, as high as the right shoulder.

409. The sentinel at any post of the guard, when he sees any body of troops, or an officer entitled to compliment, approach, must call : "*Turn out the guard !*" and announce who approaches.

410. Guards do not turn out as a matter of compliment after sunset ; but, sentinels will, when officers in uniform approach, pay them proper attention, by facing to

FIRE.

One time and one motion.

177. Press the fore-finger against the trigger, fire, without lowering or turning the head, and remain in this position.

178. Instructors will be careful to observe when the men fire, that they aim at some distinct object, and that the barrel be so directed that the line of fire and the line of sight be in the same vertical plane. They will often cause the firing to be executed on ground of different inclinations, in order to accustom the men to fire at objects either above or below them.

LOAD.

One time and one motion.

179. Bring down the piece with both hands, at the same time face to the front and take the position of *load* as indicated, No. 156, by :

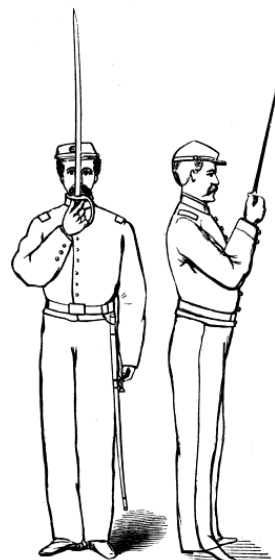
– Bringing the piece erect before the centre of the body, the rammer to the front ; seizing the piece with the left hand half-way between the guide sight and lower band, the thumb extended along the barrel and against the stock, the fore-arm horizontal and resting against the body, the hand as high as the elbow ;

– Carrying the piece to the left side with the left hand—butt upon the ground—barrel to the front—piece inclined to the right and front resting along the left thigh, muzzle six inches in front of the centre of the body—right hand



Both ranks loading.

hand, which will be supported against the right hip, the back of the blade against the shoulder.



*To Salute with the Sword or Sabre.
Three times (or pauses).*

One. At the distance of six paces from the person to be saluted, raise the sword or sabre perpendicularly, the point up, the flat of the blade opposite to the right eye, the guard at the height of the shoulder, the elbow supported on the body.

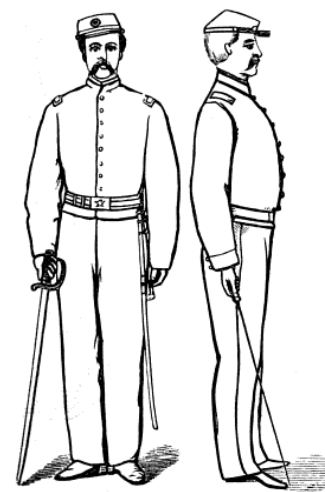
The Recover.

Drop the point of the sword or sabre by extending the arm, so that the right hand may be brought to the side of the right thigh, and remain in that position until the person to whom the salute is rendered shall be passed, or shall have passed, six paces.

Three. Raise the sword or sabre smartly, and place the back of the blade against the right shoulder.

Upton, 1868. In saluting with troops, the first time will be executed at the command, *present* ; the second, at the command, *arms* ; the third motion will be executed as the arms are brought to the carry.

When arms are ordered, the officers will drop the points of their swords, the back of the hand up. At parade rest, they will clasp the hands in front of the centre of the body, the left



The Salute.

butt.

185. The recruits being in the position of the third motion of *ready*, No. 173, if the instructor should wish to bring them to a shoulder, he will command :

*Shoulder – ARMS.
One time and one motion.*

186. At the command, *shoulder*, place the thumb upon the cock, the fore-finger on the trigger, half-cock, and seize the small of the stock with the right hand. At the command, *arms*, bring up the piece briskly to the right shoulder, and retake the position of shoulder arms.

187. The recruits being at shoulder arms, when the instructor shall wish to fix bayonets, he will command :

*Fix – BAYONET.
One time and four motions.*

188. (*First motion.*) Same as the first motion in the first time of loading, No. 156, which is : with the right hand, bring the piece erect before the centre of the body, the rammer to the front ; at the same time seize the piece with the left hand half-way between the guide sight and lower band, the thumb extended along the barrel and against the stock, the fore-arm horizontal and resting against the body, the hand as high as the elbow.

(*Second motion.*) Same as the second motion in the first time of loading, No. 156, which is : carry the piece to the left side with the left hand—butt upon the ground—barrel to the front—piece inclined to the right and front resting



lock square to the front, and pass it to his front rank man, who will seize it with his right hand about the middle band and incline it forward, resting the neck of the bayonet on that of his own bayonet and close to the blade. Number one of the front rank will turn the barrel of his piece square to the front, slope it across the body, place the neck of his bayonet, above the necks, and between the blades of the other two bayonets, holding the piece with the right hand at the middle band, the butt three inches from the ground at his right toe.

412. Number two of the front rank will throw the butt of the rear rank man's piece about thirty inches to the front, at the same time resting the butt of his own piece on the ground on the left, and a little in rear of his left toe. At the same instant, number one of the front rank will rest the butt of his piece on the ground, a little in front of his right toe. Number one of the rear rank will incline his piece on the stack thus formed.

413. The men of both ranks having taken the position of the soldier without arms, the instructor will command :

1. *Break ranks.* 2. MARCH.

TO RESUME ARMS.

414. Both ranks being re-formed in rear of their stacks, the instructor will command :

Take – ARMS.

415. At this command, number one of the rear rank will retake his piece. Number two of the front rank will seize his own piece with the left hand at the middle band, and his rear rank man's piece in like manner with his right hand ;

upon the piece.

(*Second motion.*) The bayonets will be fixed as in No. 189 : draw the bayonet from the scabbard, fix it, seize the piece with the right hand at the muzzle, the left hand resting on the barrel, arm extended.

(*Third motion.*) Immediately resume the position of *ordered arms*.

Charge — BAYONET.

One time and two motions.

193. (*First motion.*) Raise the piece slightly with the right hand and make a half face to the right on the left heel ; place the hollow of the right foot opposite to, and three inches from the left heel, the feet square ; seize the piece at the same time with the left hand a little above the lower band.



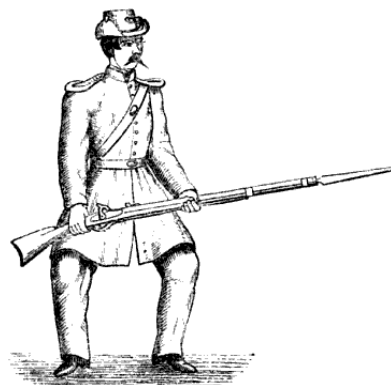
CHARGE BAYONET

194. (*Second motion.*) Bring down the piece with both hands, the barrel uppermost, the left elbow against the body ; seize the small of the stock, at the same time, with the right hand, which will be supported against the hip ; the point of the bayonet as high as the eye.

Shoulder — ARMS

One time and two motions.

195. (*First motion.*) Throw up the piece briskly with the left hand in facing to the front, place it against the right shoulder, the rammer to the front ; turn the right hand so as



Guard against Infantry.—No. 814.

1. *Guard against Infantry.*

2. GUARD.

One time and two motions.

305. (*First motion.*) Make a half face to the right, turning on both heels, the feet square to each other ; at the same time raise the piece slightly, and seize it with the left hand above and near the lower band.

306. (*Second motion.*) Carry the right foot twenty inches perpendicularly to the rear, the right heel on the prolongation of the left, the knees slightly bent, the weight of the body resting equally on both legs ; lower the piece with both hands, the barrel uppermost, the left elbow against the body ; seize the piece at the same time with the right hand at the small of the stock, the arms falling naturally, the point of the bayonet slightly elevated.

Shoulder — ARMS.

One time and one motion.

307. Throw up the piece with the left hand, and place it against the right shoulder, at the same time bring the right heel by the side of the left and face to the front.

1. *Guard against Cavalry.* 2.

GUARD.

One time and two motions.



Guard against Cavalry.—No. 817.

shoulder, the elbow close to the body ; seizing the piece with the left hand below the right, and dropping quickly the right hand to grasp the piece at the swell of the stock, the thumb and fore-finger embracing the guard ; pressing the piece against the shoulder with the left hand the right arm nearly straight ; and

(*Second motion.*) Dropping the left hand quickly by the side.

Unfix — BAYONET.

One time and three motions.

200. First and second motions are the same as in *fix bayonet*, No's 188-89 :

(*First motion.*) Grasp the piece with the left hand at the height of the shoulder, and detach it slightly from the shoulder with the right hand.

(*Second motion.*) Quit the piece with the right hand, lower it with the left hand, opposite the middle of the body, and place the butt between the feet without shock ; the rammer to the rear, the barrel inclined forward, the muzzle eight inches from the body ; seize the piece with the right hand at the upper band, and carry the left hand, thumb up, to the bayonet ; turn the clasp by pressing against it with the thumb of the left hand, and then grasp the socket of the bayonet with the left hand, the shank resting between the thumb and fore-finger, the thumb pointed up.

201. (*Third motion.*) Same as the third motion in *fix bayonet*, No.188, except : turn the bayonet clasp with the right thumb, grasp the shank of the bayonet with the right hand, palm under thumb and fingers extended well at the blade



Unfix bayonet.

Shoulder — ARMS.

One time and two motions.

(*First motion.*) Bring the piece smartly to the right shoulder, placing the right hand as in the position of shoulder arms, slip the left hand to the height of the shoulder, the fingers extended.

(*Second motion.*) Drop the left hand smartly by the side.

The Charge.

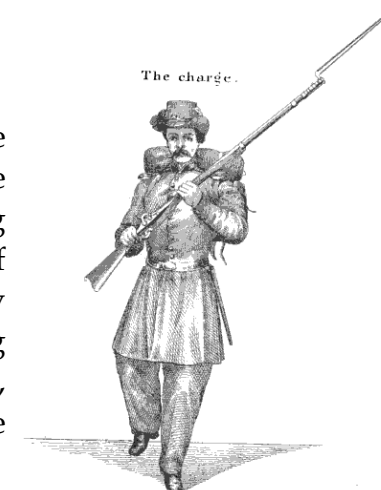
Kelton 103. The squad (platoon, or company) being in two ranks and at "*carry arms*," and supposed to be about forty or fifty yards from the enemy, the instructor will command:

1. *Prepare to charge.*
2. *Double quick — MARCH!*

At the first command, seize the piece with the left hand at the height of the right breast, and bring it diagonally across the middle of the body, the bayonet slightly advanced, the right hand holding the handle at the height of the hips, the left hand in front and at the height of the left breast.

At the second command, the squad (or company) will move off at the "*double quick*," carrying the piece as described.

104. After moving to the front forty or fifty paces, the command,



detached from the shoulder, the left fore-arm against the piece.

206. (*Third motion.*) Reverse the piece, pass it under the left arm, the left hand remaining at the lower band, the thumb on the rammer to prevent it from sliding out, the little finger resting against the hip, the right hand falling at the same time by the side.

*Shoulder — ARMS.
One time and three motions.*

207. (*First motion.*) Raise the piece with the left hand, and seize it with the right hand at the small of the stock. The piece erect and detached from the shoulder, the butt against the hip, the left fore-arm along the piece.

208. (*Second motion.*) The same as the second motion of *shoulder arms from a support*, No. 141 : carry the piece vertically to the right shoulder with both hands, the rammer to the front, change the position of the right hand so as to embrace the guard with the thumb and fore-finger, slip the left hand to the height of the shoulder, the fingers extended and joined, the right arm nearly straight.

209. (*Third motion.*) The same as the third motion of *shoulder arms from a support*, No. 142 : drop the left hand quickly by the side.

*Right shoulder shift — ARMS.
One time and two motions.*

210. (*First motion.*) Detach the piece perpendicularly from the shoulder with the right hand, and seize it with the left between the lower band and guide-sight, raise the piece, the left hand at the height of the shoulder and four inches

To Fire and Load Lying.

298. In this exercise the squad will be in one rank and loaded ; the instruction will be given individually and without times or motions.

299. The instructor will command :

FIRE AND LOAD LYING.

300. At this command, the man on the right of the squad will move forward three paces and halt ; he will then bring his piece to an order, drop on both knees, and place himself on the ground flat on his belly. In this position he will support the piece nearly horizontal with the left hand, holding it near the lower band, the butt end of the piece and the left elbow resting on the ground, the barrel uppermost ; cock the piece with the right hand, and carry this hand to the small of the stock ; raise the piece with both hands, press the butt against the shoulder, and resting on both elbows, *aim and fire*.

301. As soon as he has fired, bring the piece down and turn upon his left side, still resting on his left elbow ; bring back the piece until the cock is opposite his breast, the butt end resting on the ground ; take out a cartridge with the right hand ; seize the small of the stock with this hand, holding the cartridge with the thumb and two first fingers ; he will then throw himself on his back, still holding the piece with both hands ; carry the piece to the rear, place the butt between the heels, the barrel up, the muzzle elevated. In this position, charge cartridge, draw rammer, ram cartridge, and return rammer.

302. When finished loading, the man will turn again upon his left side, remove the old cap and prime, then raise

with the right hand, below and near the left fore-arm, place the left hand under the butt, the heel of the butt between the first two fingers.

216. (*Second motion.*) Turn the piece with the left hand, the lock plate upwards, carry it to the right shoulder, the left hand still holding the butt, the muzzle elevated ; hold the piece in this position and place the right hand upon the butt, as is prescribed, No. 210 : the beak between the first two fingers, the other two fingers under the butt plate ; and let fall the left hand by the side.

*Support — ARMS.
One time and two motions.*

217. (*First motion.*) The same as the first motion of *shoulder arms*, No. 212 : raise the piece perpendicularly by extending the right arm to its full length, the rammer to the front, at the same time seize the piece with the left hand between the lower band and guide-sight.

218. (*Second motion.*) Turn the piece with both hands, the barrel to the front, carry it opposite the left shoulder, slip the right hand to the small of the stock, place the left fore-arm extended on the breast, as is prescribed, No. 134, by passing the fore-arm extended on the breast between the right hand and the cock ; supporting the cock against the left fore-arm, the left hand resting on the right breast ; and let fall the right hand by the side.

Hardee SoB Remarks. When it may be desired to give the men relief, arms may be *supported*, if at a halt, or marching by the flank.

In marching by the front, arms may be



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execute that which has been prescribed in the direct fire, and afterwards take the position of *ready*, No's 171-73.

287. As soon as the instructor sees several men of the rear rank in the position of *ready*, he will command :

1. *Front rank.* 2. AIM. 3. FIRE. 4. LOAD.

288. At these commands, the men in the front rank will execute what has been prescribed for the rear rank, but they will not step off with the right foot.

289. The instructor will recommence the firing by the rear rank, and will thus continue to alternate from rank to rank, until he shall wish the firing to cease, when he will command, *cease firing*, which will be executed as heretofore prescribed, No's 281-2.

To Fire and Load Kneeling.

290. In this exercise the squad will be supposed loaded and drawn up in one rank. The instruction will be given to each man individually, without times or motions, and in the following manner.

291. The instructor will command :

FIRE AND LOAD KNEELING.

292. At this command, the man on the right of the squad will move forward three paces and halt ; then carry the right foot to the rear and to the right of the left heel, and in a position convenient for placing the right knee upon the ground in bending the left leg ; place the right knee upon the ground ; lower the piece, the left fore-arm supported upon the thigh on the same side, the right hand on the small of the

piece perpendicularly to the front and between the eyes, the barrel to the rear ; seize the piece with the left hand at the lower band, the thumb extended, the left fore-arm along the stock ; seize the piece at the same time with the right hand, at the small of the stock.

21. (*Second motion.*) Carry the piece vertically to the right shoulder with both hands, the rammer to the front ; change the position of the right hand so as to embrace the guard with the thumb and fore-finger ; slip the left hand to the height of the shoulder, the fingers extended and joined, the right arm nearly straight.

22. (*Third motion.*) Drop the left hand quickly by the side.

*Arms — AT WILL.
One time and one motion.*

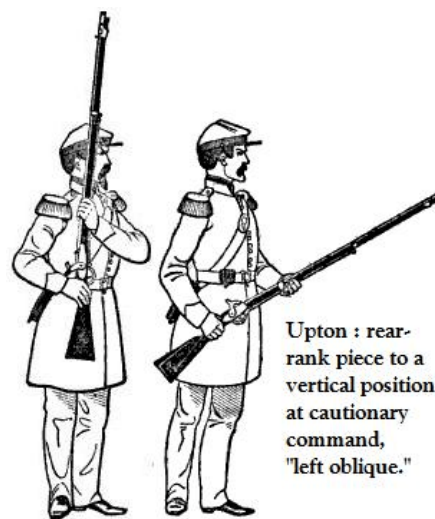
Hardee SoS 219. At this command, carry the piece at pleasure on either shoulder, with one or both hands, the muzzle elevated.

*Shoulder — ARMS.
One time and one motion.*

220. At this command, retake quickly the position of shoulder arms.

221. The recruits being at ordered arms, when the instructor shall wish to cause the pieces to be placed on the ground, he will command :

*Ground — ARMS.
One time and two motions.*



wait for both movements to be completed before ordering the command of *aim*.

At the command, *aim*, five things occur : (1) the front rank will take aim to the left without deranging the feet ; (2) each man in the rear will advance the right foot about eight inches toward the right heel of the man next on the right of his file leader ; (3) "aim through the interval to the left of his file leader" ; (4) inclining the upper body forward and (5) bending a little the right knee.

To Fire by File.

273. The fire by file will be executed by the two ranks, the files of which will fire successively, and without regulating on each other, except for the first fire.

274. The instructor will command :

1. *Fire by file.* 2. *Squad.*
3. *READY.* 4. *COMMENCE FIRING.*

275. At the third command, the two ranks will take the position of *ready* as prescribed in the direct fire, No. 260.

276. At the fourth command, the file on the right will aim and fire ; rear rank man in aiming will take the position indicated No. 176, by carrying the right foot about eight inches to the right, and towards the left heel of the man next on the right, inclining the upper part of the body forward.

(*First motion.*) The pieces will be brought to the left side at one motion, and held as prescribed in No's 188 and 192 : butt upon the ground—barrel to the front—piece inclined to the right and front resting along the left thigh, muzzle six inches in front of the centre of the body—right hand grasping the piece just below the upper band, and the left hand extending upon the piece.

(*Second motion.*) With two exceptions, bayonets will be fixed as in No's 189 and 192 : draw the bayonet from the scabbard, fix it, seize the piece with the right hand at the muzzle, the left hand resting on the barrel, arm extended. The exceptions are : the left hand remains at the muzzle, and the rammer head is seized between the thumb and fore-finger of the right hand, the other fingers closed, the elbows near the body as in *charge cartridge*, No. 159.

227. (*Third motion.*) Spring rammer as prescribed in *loading*, No's 160-62, by :

- half drawing the rammer by extending the right arm; steadying it in this position with the left thumb; seizing the rammer between the thumb and forefinger of the right hand, the thumb under and finger over the rammer; fingers extended, palm of the hand to the front;

- clearing the rammer from the pipes by again extending the arm; the rammer in the prolongation of the pipes, palm of the hand to the front; and

- turning the rammer by closing the fingers, the little end passing near the left shoulder, turning the back of the hand to the front; steadying it by extending the forefinger of the right hand; placing the head of the rammer on the ball, the rammer in prolongation of the barrel.

Lower the left hand along the piece to full extent of arm, grasping the piece at the muzzle-band with the right

to a shoulder.

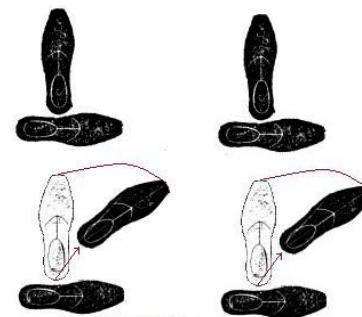
Oblique Firings.

266. The oblique firings will be executed to the right and left, and by the same commands as the direct fire, with this single difference—the command, *aim*, will always be preceded by the caution, *right* or *left oblique*.

Position of the Two Ranks in the Oblique Fire to the Right.

267. At the command, *ready*, the two ranks will execute what has been prescribed for the direct fire, No's 260-262.

268. At the cautionary command, *right oblique*, the two ranks will throw back the right shoulder and look steadily at the object to be hit.



**Right Oblique :
move LEFT foot**

269. At the command, *aim*, each front rank man will aim to the right without deranging the feet; each rear rank man will advance the left foot about eight inches towards the right heel of the man next on the right of his file leader and aim to the right, inclining the upper part of the body forward and bending a little the left knee.

Position of the Two Ranks in the Oblique Fire to the Left.

270. At the cautionary command, *left oblique*, the two ranks will throw back the left shoulder and look steadily at the object to be hit.

Spring – RAMMERS.

234. Put the rammer in the barrel, as has been explained above, No. 227, and immediately retake the position of *ordered arms*.

235. The instructor, for the purpose stated, can take the rammer by the small end, and spring it in the barrel, or cause each recruit to make it ring in the barrel.

236. Each recruit, after the instructor passes him, will return rammer, and resume the position of *ordered arms*.

Remarks on the Manual of Arms.

237. The manual of arms frequently distorts the persons of recruits before they acquire ease and confidence in the several positions. The instructor will therefore frequently recur to elementary principles in the course of the lessons.

238. Recruits are also extremely liable to curve the sides and back, and to derange the shoulders, especially in loading. Consequently, the instructor will not cause them to dwell too long, at a time, in one position.

Lesson III : *To Load in Four Times.*

250. The object of this lesson is to prepare the recruits to load at will, and to cause them to distinguish the times which require the greatest regularity and attention, such as *charge cartridge*, *ram cartridge*, and *prime*. It will be divided as follows :

251. The first time will be executed at the end of the command ; the three others at the commands, *two*, *three* and *four*.

The instructor will command :

1. *Load in four times*. 2. LOAD.

252. Execute the times to include charge cartridge.
TWO.

253. Execute the times to include ram cartridge.
THREE.

254. Execute the times to include prime.
FOUR.

255. Execute the time of *shoulder arms*.

To Load at Will.

256. The instructor will next teach loading at will, which will be executed as loading in four times, but continued, and without resting on either of the times. He will command :

1. *Load at will*. 2. LOAD.

257. The instructor will habituate the recruits, by degrees, to load with it greatest possible promptitude, each without regulating himself by his neighbor, and above all without waiting for him.

258. The cadence prescribed, No. 129, is not applicable to loading in four times, or at will.

FIRINGS.

259. The firings are direct or oblique, and will be executed as follows :