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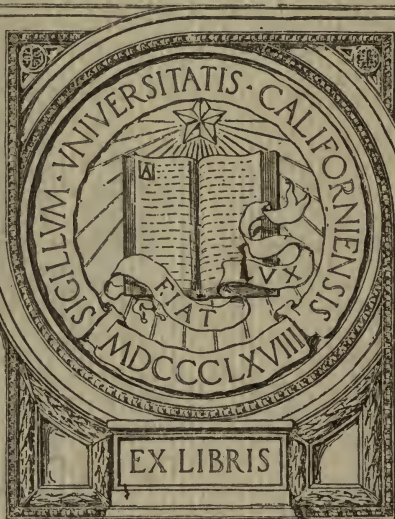


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# SIGNALLING REGULATIONS.

BEING A

COMPLETE COMPILATION OF ALL ORDERS, REGULATIONS  
AND WARRANTS RELATING TO SIGNALLING.

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COMPILED BY

SERGEANT-MAJOR F. W. SIBBALD,

*School of Signalling, Aldershot.*



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SIGNALLING REGULATIONS.



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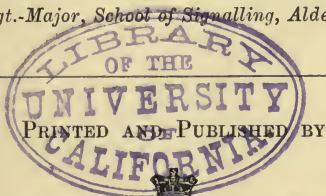
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COMPILED BY

F. W. SIBBALD,

*Sergt.-Major, School of Signalling, Aldershot.*

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## P R E F A C E .

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THESE Orders and Regulations have been collected and arranged by Sergeant-Major F. W. SIBBALD, to assist those Officers who instruct in Signalling in various parts of the World, and to whom access to all the different Army Forms, Circular Memoranda, Royal Warrants, Pay Regulations, &c., is not only difficult, but frequently unattainable.

As a book of reference to those so employed it must prove most useful.

The book has been carefully revised, and all extracts may be taken as absolutely correct.

FRED. C. KEYSER, *Colonel*,  
Inspector of Signalling.

*August, 1889.*

314017



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# SIGNALLING REGULATIONS.

## Queen's Regulations. (Sec. VII)—Army Signalling.

Instructors and  
Assistant In-  
structors.

192. One officer as instructor, and two non-commissioned officers as assistant instructors in Army Signalling, will be appointed to each regiment of cavalry and battalion of infantry, and one non-commissioned officer of artillery as assistant instructor for each lieutenant colonel's command, and one for each battery of garrison artillery stationed separately. They must have obtained certificates of qualification from the School of Army Signalling at Aldershot, and these certificates are to be considered as their appointments to the above positions.

Their Selection.

192a. Officers and non-commissioned officers are not to be selected to attend classes of instruction at the School of Signalling at Aldershot, unless they can read at the rate of six words a minute correctly off the small flag, and in cases when a corps may be called upon to send an officer or non-commissioned officer to the School, six weeks' notice will be given to the corps by the inspector of signalling, which will give sufficient time for the requisite training.

Their Employ-  
ment.

193. The holders of signalling appointments are to be struck off regimental duty when employed with a class of instruction or on brigade practice. All vacancies in these appointments are to be immediately reported through the general officer commanding to the Inspector of

Army Signalling at Aldershot, with a view to the training of other officers and non-commissioned officers as opportunities arise in the formation of classes by the Inspector of Army Signalling.

**System of Instruction.**

194. Instructors will be held responsible that the system laid down in the manual of instruction, and taught at the School of Army Signalling at Aldershot, is strictly adhered to; and as the signallers of one corps may at any time be called upon to communicate with those of another, identity of system is absolutely necessary.

**Classes.**

195. Classes are formed at the School of Army Signalling for the instruction of officers and non-commissioned officers, about the 15th March and the 5th June, and about the 1st September in each year. In corps provided with certificated instructors, care will be taken to form classes for regimental instruction. Requisitions for stationery required for these classes should be included in the annual demand made by commanding officers in accordance with Section XVIII of the Regulations relating to Allowances (Army Regulations, Vol. 1, Part III). Each class will consist of one officer, with three corporals and six privates to qualify as signallers, and these, when under instruction or subsequently employed on signalling, will be relieved from all duties which are likely to interfere with the course of instruction.

**Regimental Practice.**

196. Regimental practice will be carried on weekly, and where two or more regiments are quartered at the same station, brigade practice will also take place, under the superintendence of a regimental instructor, or other specially appointed officer. Practice should, if possible, extend to two or three days a week. Brigade

practice will in no way supersede regimental practice.

**Selection of Men.**

197. Army Signalling is a duty the proper discharge of which depends, in more than an ordinary degree, on the efficiency and conduct of each individual employed. Signallers are often placed in isolated positions, where every man has a responsibility resting on himself. They must, therefore, be specially selected for steadiness of conduct, and must also be quick and intelligent, able to read and write well and spell correctly, and have good eyesight. Officers commanding corps will see that no non-commissioned officer is selected to join a class under the Inspector of Army Signalling at Aldershot to be trained as an assistant instructor, who does not possess these qualifications. Commanding officers will also be particular that no man who is not similarly qualified is permitted to join the regimental classes. The greatest care and discrimination on the part of the instructor must be used to prevent any man being reported as a qualified signaller, unless he is perfectly fit to fulfil all the required duties.

**Numbers to be Selected.**

198. Twelve non-commissioned officers or privates from each regiment of cavalry, and six non-commissioned officers or privates from each battalion of infantry, are to be specially selected as signallers; and at least one supernumerary per troop or company is to be trained, in order to replace men becoming ineffective. In the Royal Artillery four non-commissioned officers or rank and file from each battery or garrison artillery are to be selected as signallers, but not more than two are to be non-commissioned officers.

**Inspection of Signallers.**

199. The signallers of each corps at home will be inspected annually during the Autumn by the Inspector of Army signalling, or by the

assistant inspector, who will report on such points as may be deserving of notice, respecting the proficiency or otherwise of the signalling classes inspected, and who will send in a return on Army Form B. 225, after each inspection, to the general officer commanding the district for transmission to the Quarter Master General. The annual inspection abroad will be conducted by a qualified officer specially selected each year by the general officer commanding.

Furlough.

200. Furloughs should not be granted to signallers until after the annual inspection, and as the introduction of lamp signalling involves extra work on the part of signallers, they should be excused from other duties as far as possible during the three months previous to the annual inspection. At the annual inspection the signallers of regiments will be tested with the larger flag, with which the rate of ten words a minute is not to be exceeded. They will also be tested in reading messages sent by the assistant instructor with the small flag and lamp, these messages may be sent at as fast a rate as the signallers can read accurately.

Testing with Large  
and Small Flag.

*N.B. The rates on Small Flag and Lamp are not to exceed the rate of 16 words a minute or in 1'15".*

*See Manual of Instruction, pages 80 and 81.*

Returns.

201. A monthly return, on Army Form B. 226 will be prepared by officers commanding corps, and forwarded quarterly, through the general officer commanding, to the Inspector of Army Signalling at Aldershot. Duplicate copies will also be prepared and be retained by the corps concerned.

202. All communications by signal between Her Majesty's land forces and the Royal Navy will be conducted by spelling the words accord-

ing to the "Morse" alphabet, as described in the Manual of Instruction in Army Signalling.

**Queen's Regulations. (Sec. XII.)—Equipment.**

**Transfer of Arms.** 59. Non-commissioned officers and men attending signalling and other classes will take with them their side-arms and waist-belts.

**Queen's Regulations. (Sec. XVIII.)—Regimental Districts, &c.**

**Selection of Men for the Service Companies.** 14 a. In furnishing a draft, the commanding officer can if he pleases, retain the six authorised trained signallers of his corps.

## EQUIPMENT.

### PART I, SECTION XII—ARMY SIGNALLING EQUIPMENT.

**Equipment Regulations, 1881.**

**Stores, Requisition for.** 379. On the appointment of an instructor in a regiment or corps, the commanding officer will forward to the local senior ordnance store officer, a requisition in duplicate, on Army Form G. 1041, (late War Office Form No. 469) for the stores that constitute the regimental signalling equipment.

**To what Corps to be Supplied.** 380. These supplies will be confined to regiments of infantry and cavalry, to lieutenant colonel's command, in Royal Artillery districts, (for the number of sets for each district see appendix XII (a) page 663), for garrison artillery, and to head quarter stations of commanding Royal Engineers, (for companies of Royal Engineers). They will not be supplied to regimental districts.

**Lamp Materials.** 381. Commanding officers, in making requisitions for materials for signalling lamps will state thereon the number of classes for which the supplies are demanded, but the classes are not to exceed three in each year.

**Number of Classes to be Stated.**

## Implements, Signalling and Field Glasses.

Table 17.	BATTALIONS.	
	WAR.	PEACE.
<b>IMPLEMENTS, SIGNALLING.</b>		
Belts, leather, waist ... ..	—	2
Books { Manual of Instruction ... ..	4	4
{ Message ... ..	4	4
Bottles, tin, oil, screw top, two quarts ... ..	1	1
Cans, tin, oil, feeding $\frac{1}{2}$ pint .. ..	2	2
Cases, leather { books message ... ..	2	2
Waist belt for { feeding cans ... ..	2	2
Chests, wood, with hasps ... ..	1	1
Flags Visual { 3 feet { dark blue ... ..	2	4
by { 3 feet { white, with blue stripe ... ..	2	4
Signalling { 2 feet { dark blue ... ..	2	4
by { 2 feet { white, with blue stripe ... ..	2	4
Horns, fog ... ..	2	2
Lamps, signalling, bull's eye ... ..	4	4
Locks, pad, small, with key for chest ... ..	1	1
Poles, flag, visual signalling { 5ft. 6in. ... ..	5	10
{ 3ft. 6in. ... ..	5	10
Scissors, lamp, with guard, pairs ... ..	2	2
Stands, telescope, tripod, in two parts ... ..	2	2
Telescopes, Army Signalling, with straps ... ..	2	2
Wheels, cypher ... ..	2	2
Cotton waste, lbs. ... ..	3	3
Oil, Colza,* pints ... ..	30	30
Wick,* cotton, round, $\frac{3}{4}$ -inch, yards ... ..	20	10
<b>FIELD GLASSES.</b>		
Cases, leather, binocular glasses. ... ..	2	—
Glasses, field, binocular ... ..	2	—

\* Supplied by the Commissariat Department.

† Sufficient for four lamps for thirty hours. Classes using a greater or less number of lamps, will draw in proportion.

## Implements Signalling and Field Glasses.

Table 13.	PER REGIMENT.		REMARKS
	WAR.	PEACE.	
<b>IMPLEMENTS, SIGNALLING.</b>			
Belts, leather, waist ... ..	—	2	
Belts, leather, pouch, Buff, R.A. Rank and File for telescopes ... ..	2	4	
Books {	4	4	
	4	4	
Bottles, tin, oil, with screw top, 2 quarts ...	1	1	
Buckets, Signalling flags ... ..	12	12	
Cans, tin, oil, feeding $\frac{1}{2}$ -pint ... ..	2	2	
Cases, leather {	2	2	} On pouch belt
	2	2	
Chests, wood, with hasps ... ..	1	1	
Flags Visual {	4	8	
	4	8	
Signalling Muslin {	4	8	
	4	8	
Horns, fog ... ..	2	2	
Lamps, signalling, bull's eye ... ..	4	4	
Lock, pad, small, with key ... ..	1	1	
Poles, flag, Visual Signalling {	10	20	
	10	20	
Scissors, lamp, with guard, pairs ... ..	2	2	
Stands, telescope, tripod, in 2 parts ... ..	2	2	
Telescopes, hand, draw, Army Signalling, with caps for belt ... ..	2	4	
Wheels, cypher ... ..	2	2	
Cotton waste, lbs. ... ..	3	3	
Oil, colza,* pints ... ..	30	30	} †
Wick, cotton, round, $\frac{3}{4}$ -inch,* yards ... ..	20	10	
<b>FIELD GLASSES.</b>			
Glasses, binocular, in leather cases ... ..	2	—	

\* Supplied by the Commissariat Department.

† Sufficient for 4 lamps for 30 hours work. A class using either a greater or less number of lamps than 4, will draw in this proportion.

## Royal Artillery.

### IMPLEMENTS, SIGNALLING.

#### Garrison Brigade Staff and Batteries.

These when supplied under paragraph 380, will consist of the same articles as for a battalion of infantry, but the numbers of flags and poles will be one half only of the peace proportions.

## ARMY ALLOWANCES.

### MISCELLANEOUS SERVICES.

#### Regulations relating to the Issue of Army Allowances, 1887.

##### Miscellaneous.

253. Coal, coke, wood for fuel, candles, oil for lighting, and wick, required for the following services, will be supplied as required on demands from the officers concerned. These officers will account for all supplies received by them on Expense Vouchers, Army Form F, 771, to be rendered monthly to the local commissariat officer, who will attach them to his supply accounts in support of the issues made by him:—

Royal Engineer machinery.

“ “ workshops.

“ “ vessels.

Submarine services.

Electric light apparatus.

War Department vessels (for lighting supplies only.)

Magazines and defences.

Signalling service (except wick for lanterns and lamps on active service).

Ordnance store workshops.



## Royal Warrant 1887. Pay and Non-effective Pay.

Extra Duty Pay.

691. Assistant instructor of signalling.

N.C.O's.

The non-commissioned officer appointed assistant instructor of signalling in each regiment of our cavalry, battalion of our infantry, and garrison battery of our artillery, for each day on which he is actually engaged in imparting instruction in signalling (to be limited to 130 days in each financial year for each regiment, battalion, or battery) 6d.

705. Telegraph clerk, telephone clerk, or signalman.

Special Rates.

The soldier acting as telegraph clerk; or as signalman at a fixed signal station; or actively employed as such with an army in the field; or under special circumstances, when extra duty pay has been specially authorised by our Secretary of State, or, in the case of our army in the field, under the authority of the general officer commanding.

From 1/- a week, to from 4d. to 1/- a day, according to his qualifications and to the nature and amount of the duties to be performed.

The soldier acting as telephone clerk, when actually employed (daily) 3d.

1021. Prizes for signalling.

## CAVALRY.

Cavalry.

1st Prize. To the } £2 each, and a  
24 signallers of the } badge of crossed flags  
two regiments highest } worked in worsted.  
in order of merit.

2nd Prize. To the } £1 15s. each, and a  
24 signallers of the two } badge of crossed flags  
regiments next highest } worked in worsted.  
in order of merit.

3rd Prize. To the 24 signallers of the two regiments next highest in order of merit } £1 10s. each, and a badge of crossed flags worked in worsted.

## GARRISON ARTILLERY.

Garrison Artillery.

1st Prize. To the 12 signallers of the three Batteries in highest order of merit } £2 each, and a badge of crossed flags worked in worsted.

2nd Prize. To the 12 signallers of the three Batteries next highest in order of merit } £1 15s. each, and a badge of crossed flags worked in worsted.

3rd Prize. To the 12 signallers of the three Batteries next highest in order of merit } £1 10s. each, and a badge of crossed flags worked in worsted.

To the 4 signallers of the Battery highest in order of merit at Malta and Gibraltar respectively } £1 15s. each, and a badge of crossed flags worked in worsted.

## INFANTRY.

Infantry.

1st Prize. To the 36 signallers of the six battalions highest in order of merit } £2 each, and a badge of crossed flags worked in worsted.

2nd Prize. To the 36 signallers of the six battalions next highest in order of merit } £1 15s. each, and a badge of crossed flags worked in worsted.

3rd Prize. To the 36 signallers of the six battalions next highest in order of merit } £1 10s. each, and a badge of crossed flags worked in worsted.

To the 6 signallers of the battalion highest in order of merit at Malta and Gibraltar respectively. } £1 15s. each, and a badge of crossed flags worked in worsted.

#### ROYAL MALTA ARTILLERY.

Malta Artillery.

To the 4 signallers of the battery of Royal Malta Artillery highest in order of merit. } £1 10s. each, and a badge of crossed flags worked in worsted.

#### GENERAL

General.

To each soldier within the recognised establishment of signallers, excluding supernumeraries, who may qualify in any year as an efficient signaller, and is not entitled to any other prize under this article. } 15/- each, and a badge of crossed flags worked in worsted.

When not issuable.

1022. Prizes for signalling shall not be issued to regiments which do not attain a satisfactory standard of efficiency.

Colonial Stations.

1023. Battalions and batteries stationed at other colonial stations than Malta and Gibraltar, shall not be allowed to compete for the first, second, or third prizes for signalling.

With reference to article 1021, of Royal Warrant for Pay, &c., 1887. No regiment of cavalry or infantry, whose figure of merit (A. F. B. 225) is below 319, and no battery of artillery whose figure of merit is below 309, will be considered to have attained a satisfactory standard of efficiency. All corps marked in the inspection returns as V.I. (very inaccurate), will be disqualified for any prize, irrespectively of their figure of merit.

## FINANCIAL INSTRUCTIONS.

### ISSUE OF PRIZES.

#### Financial Instructions, 1886.—Section XII.

Army Signalling.

520. The prizes for Army Signalling will be paid each year on the publication of the General Order showing the relative efficiency of the corps in signalling, and the charges will be supported by a reference to the General Order by a statement of the names of the men, and by proof of payment.

#### AUTHORITY FOR THE ISSUE OF GRATUITY OF 15/-

For a Cavalry Regiment	...	...	12 men	receive it.
„ Garrison Battery of Artillery	...	...	4	„
„ Battalion of Infantry	...	...	6	„

The Form of Authority for Regiments to draw this gratuity is as follows :—  
(no other authority is required)

#### GRATUITIES FOR SIGNALLERS.

*Officer Commanding*

*1st Gloucester Regiment.*

Names.

Battery,  
or Regiment,

The signallers of the <sup>Battery,</sup> Battalion under your command (names as per margin), who were present at the last Signalling Inspection (Annual) are entitled to receive the sum of 15s. each, amounting to £4 10s. under the provision of Army Circulars, Clause 86, May, 1887.

I am directed by Horse Guards' letter (44 Gen. No. 1177 dated 30th March, 1887) to inform you that this letter should be annexed as a voucher to the Pay List on which the gratuities are charged.

*Aldershot.*

*Inspector of Signalling.*

## CARBON PAPER.

### CARBON PAPER FOR ARMY SIGNALLING EQUIPMENT.

Cl. 139. July, 1884.

1. In order that the instructions contained in paragraph 4, page 42, of the Manual of Instruction in Army Signalling, 1883, may be carried out, two sheets of carbon paper will be supplied, in future, with each copy of Army Book 119A (Military Telegraph and Message Book).

2. Officers in possession of signalling equipment will put forward requisitions on local Ordnance Store Officers for the number of sheets they require.

3. At pages 116 and 136 of the Equipment Regulations, 1881 (Army Regulations, Vol. III.), *after* "Books, Message," in the Tables of Signalling Implements, *add* "119A, each with two sheets of carbon paper."

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## CLOTHING REGULATIONS.

### PART I.—BADGES.

Clothing Regulations, 1887.

Property of Winners. 118. The badges for good shooting and good signalling supplied for the tunics issued biennially, will not be transferred from the winners of one year to those of the succeeding year, but will be retained by the winners of them as their own property, although they will not be worn after the period fixed for the wear of such badges shall have expired.

## PART II.—DISTINGUISHING BADGES AND CHEVRONS.

## (e). BADGES FOR SIGNALLING.

Page 303.

The Assistant Instructor of Signalling: a badge of crossed flags above the chevron.

1. Badge of crossed flags, worked in gold, for the Household cavalry, and in worsted for the other branches of the service (for each qualified signaller, whether he receives a prize or not), to the extent of the numbers allowed by regulation. } Worn on the left arm, on tunics or dress jackets, and frocks,\* or undress jackets, below the elbow and above all other badges worn on that arm.

4. †Chevrans and Badges worn on Kharkee drill and white cotton clothing will be similar to those worn on the undress jackets or frocks, and dress and undress waistcoats of the various Regiments or Corps, with the following exceptions:—

They will all be made of worsted lace and embroidery.

No badges will be worn by Bandmasters, Band-Sergeants, Sergeant-Instructors of Musketry, Fencing, Gymnastics, or Signalling, or by Bandsmen.

**VOLUNTEER REGULATIONS.**

## ARMY SIGNALLING.

44 Gen. No. 1264.

The following alterations and additions will be made in the Regulations for the Volunteer Force, 1887:—

1. In Sub-Section V. of Section V., Part I., for the heading the following will be substituted:—

\* Not worn on cotton, drill, canvas, or duck, nor on recruits serge frocks.

† One set only will be supplied, although two or more suits may be issued.

## CLASSES FOR, AND EXAMINATION IN SIGNALLING.

2. The following will be inserted under the above-mentioned heading after paragraph 470:—

470a. Classes for the instruction of Volunteer Officers in Army signalling will be formed at each of the stations named below, (or any other stations which may be convenient) twice a-year if a sufficient number of candidates are forthcoming.

District.	Place of Assembly.	Date of Inspection.
North Eastern ...	York, Sheffield ...	{ 23rd March to 31st March. 17th August to 23rd August.
North Western...	Manchester, Preston	{ 8th March to 15th March. 6th August to 10th August.
Eastern ... ..	Colchester, Norwich	{ 1st April to 5th April. 25th Aug. to 29th Aug.
Western ... ..	Plymouth, Pembroke Dock	{ 1st March to 7th March. 1st August to 5th August.
Southern ... ..	Portsmouth... ..	{ 6th May to 10 May. 14th Dec. to 18th Dec.
Thames ... ..	Chatham ... ..	{ 1st June to 4th June. 5th Dec. to 8th Dec.
South Eastern ...	Dover ... ..	{ 1st May to 5th May. 9th Dec. to 13th Dec.
Home .. ... ..	London ... ..	{ 7th June to 11th June. 1st Dec to 4th Dec.
Woolwich ... ..	Woolwich ... ..	{ 6th April to 10th April. 19th Dec. to 22nd Dec.
Aldershot ... ..	Aldershot ... ..	{ 15th June to 27th July. 1st Sept. to 30th Nov.
North British ...	Edinburgh, Glasgow	{ 16th March to 22 March. 11th Aug. to 16th Aug.

470b. Each class will consist of not less than 8 or more than 20 Officers and non-commissioned officers, and will last for 91 days at least.

470c. The instruction will be carried out by the Assistant-Instructor of a Regular regiment or battalion at the station under the supervision of a District or Regimental Signalling Officer.

470d. The names of Volunteer Officers and non-com-

missioned officers desirous of attending a class will be sent in to the General Officer Commanding the District, who will assemble the classes, detailing the Signalling Officer to superintend and the regiment or battalion to furnish the Assistant-Instructor.

470e. Applicants to join the class must engage to attend not less than three times a week. The instruction will usually be carried out in the evening, or at such times as are most convenient to those attending.

470f. An Officer from the Signalling School at Aldershot will inspect the classes and grant certificates to those found qualified after examination.

3. The following will be added after paragraph 603 :—

603a. A fee of 1s. a day will be paid through the Signalling Officer to the Assistant-Instructor of Signalling appointed under paragraph 470c. Each Officer and non-commissioned officer in the signalling class will contribute an equal proportion of the sum required to make up the necessary amount.

4. The following will be added after paragraph 819 :—

819a. A certain number of flags, poles, and bull's-eye lamps will be issued to each of the named stations for the use of the classes under instruction.

Heliograph and lime-light lamps already issued to districts will, whenever they can be spared from the regular service, also be used.

5. General Officers Commanding Districts will forward to the Inspector of Signalling the names of Officers who may be ready to be examined with the view of earning the Capitation Grant for the current year terminating 31st October 1888; and, if possible, provision will be made for their being examined.

After the 31st October 1888, the dates laid down for the examinations in each district in paragraph 471a will, as far as possible, be adhered to.



“Officers and N.-C. Officers, other than those who have not attended the above classes who may desire to be examined for Certificates, should send in their names to the A. A. G. of the District, at least one month before the date fixed for examination in that district.”

## V. EXAMINATION IN SIGNALLING.

471.

The examination referred to in para. 678 will be as follows:—

- a. Correctly reading from, and sending with, the large flag at the rate of nine (9) words a minute.
- b. Correctly reading from, and sending with, the small flag at the rate of twelve (12) words a minute, and the bull's-eye lamp at the rate of ten (10) words a minute.
- c. Showing a fair knowledge of the Helio-graph and Lime-light.
- d. Thoroughly understanding the Manual of Instruction in Army Signalling.

These examinations will be held from time to time under the instruction of the Inspector of Army Signalling, Aldershot, who alone is empowered to issue (in person or by deputy) the certificates to the successful candidates.

678.

A Special Capitation Allowance of £1 10s. will be granted for each Officer or non-commissioned officer of Volunteers (not exceeding 2 Officers and 2 non-commissioned officers in each corps) who is in possession of the Signalling Certificate referred to in para. 471, for every year in which he earns the ordinary Capitation Allowance.

2. This Special Capitation Allowance will be granted for all Officers who have obtained

certificates prior to the 1st March 1889, irrespectively of the above limitation.

518.  
Badges for  
Signallers.

Badges of crossed flags for proficiency in Army Signalling, may be worn by Assistant Instructors and Signallers of Volunteer Corps under the following conditions.

- (1) A Corps having the regulation number of Signallers, wishing to wear badges, will apply to the General Officer Commanding the District, who will appoint an Officer holding an Instructor's Certificate from the School of Army Signalling at Aldershot, to examine the Signallers. The examining Officer will report the result to the Inspector of Signalling at Aldershot, direct, who will notify to the General Officer Commanding the District, if badges should be issued.

Badges will not be issued unless a satisfactory standard of efficiency is attained.

- (2) Badges will be provided at the cost and be the property of the Corps, and will be returned into stores at the end of the Volunteer year in which they are to be worn.
- (3) Signallers of corps examined between the 1st November and the 1st May, will wear badges up to the end of the Volunteer year (31st October), in which they are examined. Signallers examined between the 1st May and the 31st October, will wear badges for the succeeding volunteer year, commencing on the 1st November. A period of at least 6 months must elapse between each inspection, which should not be held oftener than once in each year.

- (4) The badges must be limited to the number allowed in the regular forces, viz. :—two Assistant Instructors and twelve Signallers per Regiment of Cavalry, two Assistant Instructors and six Signallers per battalion of Infantry, and one Assistant Instructor and four Signallers per Battery of Artillery.
- (5) The Badges will be worn by Assistant Instructors on the right arm above the chevron, and by Signallers on the left arm below the elbow, and above all other badges. They will be worked on cloth the color of the tunic, and in no case will they be worked in gold.
- (6) No expense whatever to the public is to be entailed, and it is to be clearly understood that if there be no qualified officer on the spot to conduct the necessary examinations, the Corps concerned must arrange for the Signallers to be sent to the Examining Officer for the purpose.
- (7) Commanding officers will be held responsible that the badges are not worn by any men of their Corps, unless proper authority has been obtained from the General Officer Commanding District.

#### SIGNALLING EQUIPMENT.

Volunteer Corps wishing to purchase Signalling Equipment, can do so on requisition and prepayment from Government Stores, V. / Gen. No. / 8176.

The standard for a Volunteer Corps to be allowed to wear the badge of cross flags, for the Volunteer year in which they qualify, is the minimum standard laid down in Manual of Instruction, page 32, viz :—

Large Flag, at the rate of 9 words a minute,  
or, 2' 13".

Small Flag, at the rate of 12 words a minute,  
or, 1' 40".

Lamp, at the rate of 10 words a minute, or,  
2' 0".

Heliograph, in countries where it can be  
freely used, 10 words a minute, or in  
2' 0".

In addition to the above qualifications a man must have a fair knowledge of the Manual of Instruction, and thoroughly understand the mode of signalling, or sending a service message.

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## YEOMANRY.

### III. ARMY SIGNALLING.

130—  
Yeomanry Regu-  
lations, 1889.

Officers and non-commissioned officers of Yeomanry Cavalry may attend classes for instruction in Army Signalling formed by general officers commanding districts under the Volunteer Regulations. They will join the classes under the conditions laid down for officers and non-commissioned officers of Volunteers.

#### 354. Badges for Signallers.

The following will be added after para. 156 of the "Regulations for the Yeomanry Cavalry, 1885," (Army Regulations, Vol. X.) :—

156a. Badges of crossed flags, for proficiency in Army Signalling, may be worn by signallers under the following conditions :—

1. A corps wishing to wear badges will apply to the general officer commanding the district, who will appoint an officer, holding a certificate from the School of Signalling at Aldershot, to examine the signallers with a

view to certifying that they are efficient. The result of the examination is to be reported to the Inspector of Army Signalling, who will from time to time issue the necessary instructions for the guidance of the officer holding the examination.

2. Badges will be provided at the cost of the corps and will be worn only till the end of each Yeomanry year, when they will be returned to store. No badge will be worn unless authority has been obtained from the general officer commanding the district.

3. The signallers will be re-examined each year, the examining officer reporting the result to the Inspector of Army Signalling, Aldershot; and badges will not be re-issued in cases where a satisfactory standard is not maintained.

4. The badges must be limited to the number allowed in the regular forces—viz., two assistant instructors and 12 signallers, per regiment.

5. The badges will be worn by assistant instructors, on the right arm (above the chevron) and by signallers, on the left arm below the elbow. They will be worked on cloth the color of the tunic, and in no case in gold.

6. No expense whatever to the public is to be entailed in connection with the qualifying examinations, or otherwise. If there be no officer on the spot competent to examine the signallers, all expenses in connection with one proceeding there will have to be borne by the Yeomanry corps concerned.

By command,

&c., &c.

# MANUAL OF SIGNALLING COMPANIES FOR THE FIELD.

## Appendix I. War Establishment, Army Signallers.

ESTABLISHMENT of one Mounted and one Dismounted Company of Army Signallers, each capable of being divided into Sections of seven men, and half Sections of three or four men.

TABLE 1.

	Personnel of each Company.				Horses.					
					Mounted Company.			Dismnted. Company.		
	Officers.	Staff-Sergeants and Sergeants.	Rank and File.	Total.	Private or provided under Allowance Regulations.	Public.		Private or provided under Allowance Regulations.	Draught.	
					Riding.	Draught.				
Captain or Lieutenant ...	1	...	...	1	3	...	...	1	...	
Company Sergeant-Major	...	1	...	1	...	} 30	} 8*	...	8	
Sergeant .....	...	1	...	1	...			...	...	...
Rank and File .....	...	...	28	28	...			...	...	...
Batman .....	...	...	1	1	...	...	...	...	...	
Drivers* .....	...	...	4	4	...	...	...	...	...	
Total .....	} 1	} 2	} 29	} 32	} 3	} 30	} ...	} 1	} 8	
										... ..

When pack transport is substituted for wheeled transport, 22 pack animals will be required for a mounted company, and 18 for a dismounted company.

\*Provided by Army Service Corps.

## STORES.

## Vocabulary of Stores, 1886. (Section IV.)

		Rate.	
Designation.	Detail.	Per.	Contract.
FLAGS, SIGNAL.			
Army.	Muslin, without poles.		
Blue 3 ft. square ... ..	„ „	each	£ s. d. 0 1 2
„ 2 „ „ ... ..	„ „	„	0 0 10½
White with stripe, 3 ft. square	Blue stripe „	„	0 1 2
„ „ „ 2 „ „	„ „ „	„	0 0 11
Poles {	5 ft. 6 inches ..	Fir, for 3 ft. flag	No. 1. B. S. 0 1 0 No. 2. B. S. 0 1 1
	3 „ 6 „ ...	„ „ 2 „ „	

Wheels, Cypher	... ..	each	s. d. 2 9
Books, 119 A Message	... ..	„	1 0
Manual of Instruction	... ..	„	1 0
Scribbling Book, 119 C.	... ..	...	

## Vocabulary of Stores. (Section IV.)—(continued.)

MISCELLANEOUS STORES.		RATE.		
DESIGNATION.	DETAIL.	PER	No. 1 BALANCE SHEET.	No. 2 BAL- ANCE SHEET OR CONTRACT
			£ s. d.	£ s. d.
Heliographs, 5-inch ...	with Stand (Sec. VII.) & articles shown below*	each	—	11 5 0
Balls, Mirror ... ..	German Silver for top of mirror ... ..	doz.	2 1 6	2 4 0
Bolts, Leg ... ..	for joint of legs ... ..	"	0 6 0	0 6 4
Bottles, Oil ... ..	(*1) Brass, Circular ... ..	"	1 6 0	1 7 7
Boxes, Mirror... ..	Circular, to hold 8... ..	"	1 4 0	1 5 5
Buckets ... ..	Leather, with Cap and Sling for Stand, Mounted Corps only ... ..	each	—	0 11 9
Caps, Oil Bottle ... ..		doz.	0 6 9	0 7 2
Cases ... ..	(*1) Leather to hold all except Tripod ... ..	each	—	0 9 0
Cock-pieces, Mirror ...	for top of Mirror ... ..	doz.	0 19 0	1 0 2
Collars, Screw Arm, ...	Unremovable, Brass, Jointed ... ..	"	0 2 8	0 2 10
Discs, Mirror ... ..	(* 12) Paper ... ..	"	0 0 8	0 0 8½
Discs, Rod, Sighting ...	Metal ... ..	"	0 18 9	0 19 10
Drivers, Screw ... ..	(* 2) ... ..	"	0 15 0	0 15 11
Do. Double Headed ...		"	1 5 6	1 7 0
Heads { Screw Tangent ...	Horn ... ..	"	0 13 6	0 14 4
{ Socket ... ..	" for Vertical Rod ... ..	"	0 13 6	0 14 4
Holdalls ... ..	Leather ... ..	"	15 17 0	16 16 0
Hooks, Anchoring ... ..		"	0 9 9	0 10 4
Mirrors, Unmounted ...	(* 8) ... ..	"	—	0 18 0
Nuts, Screw, Hook, ...		"		
Anchoring ... ..		"	0 2 6	0 2 8
Pins, Check, Screw, ...		"		
Clamping ... ..	Steel, of sizes... ..	"	0 0 9	0 0 9½
Rods { Sighting ... ..	with Metal Discs ... ..	"	7 1 0	7 9 5
{ Vertical ... ..	Steel ... ..	"	0 10 6	0 11 2
SCREWS—				
Bridge ... ..	Brass, Capstan-Headed, with Pin ... ..	"	0 11 9	0 12 5
Clamping { Jointed ... ..	Brass... ..	"	0 15 0	0 15 11
Arm { Sighting ... ..	" ... ..	"	0 10 0	0 10 7
{ Vertical ... ..	" ... ..	"	0 3 4	0 3 6
Cock-piece ... ..	" ... ..	"	0 1 8	0 1 9
Bolt, leg ... ..	" for Bolts, Joints of Legs ... ..	"	0 1 10	0 1 11
Head, screw, tangent ...	Steel ... ..	"	0 2 6	0 2 8
Heel, spring ... ..	Brass, for Tangent Screws ... ..	"	0 0 10	0 0 11
Holding {	Ball... ..	"	0 1 8	0 1 9
	Box... ..	"	0 1 4	0 1 5
	Bridge ... ..	"	0 0 11	0 1 0
	Strap ... ..	" with Washers, for Strap of Cap Screws on Legs ... ..	"	0 0 11
Leg ... ..	Brass, for Top of Legs... ..	"	0 0 10	0 0 11
Mirror ... ..	" " Back of Mirror ... ..	"	0 0 10	0 0 11
Partition ... ..	" ... ..	"	0 0 4	0 0 4½



## Vocabulary of Stores, 1886. (Section IV).—(Continued.)

MISCELLANEOUS STORES.		RATE.		
DESIGNATION.	DETAIL.	PRE.	No. 1 BALANCE SHEET.	No. 2 BALANCE SHEET OR CONTRACT
			£ s. d.	£ s. d.
Pivoting {	Arm, mirror	doz.	0 2 0	0 2 1
	Balls ... ..			
	„ for Balls, Top of Mirror... ..	„	0 2 4	0 2 6
Securing instrument ...	Brass, with Washer ...	„	0 5 0	0 5 4
Sockets {	Arm, lever ...	„	0 1 7	0 1 8
	Rod, vertical. „ ... ..	„	0 1 3	0 1 4
Tangent ... ..	„ ... ..	„	1 4 0	1 5 5
Unmoveable, Arm, Jointed ... ..	Brass ... ..	„	0 12 2	0 12 11
Sockets {	Arm, Lever ...	„	0 16 0	0 17 0
	Rod, Vertical. „ ... ..	„	1 1 6	1 3 5
	Arm, lever ...	„	0 7 0	0 7 5
Springs {	Heel, screw, tangent ... ..	„	0 7 0	0 7 5
Straps {	Shoulder ... .. (*1) Slinging Case	each	—	0 2 6
	Waist ... .. (*1) or Surcingle, Steadying Case	„	—	0 0 10
Tommies ... ..	(*1) Triangular ... ..	doz.	0 18 9	0 19 10
Stand... ..	Helio or Lime-light ... ..	each	—	2 11 2
LAMPS—				
Bull's Eye, Signal ...	Hand. Signalling ... ..	each	—	0 4 8
Wick ... ..	for Colza Lamp ... ..	doz. yards	—	0 0 3
Oil ... ..	Colza ... ..	gall.	—	0 2 6
Scissors ... ..	Lamp, with Guard ... ..	each.	—	0 1 0½

## (SECTION VII.)

## R.E. AND NAVAL SPECIAL STORES.

Apparatus, Lime, Light				
Bags {	Gas ... ..	Mackintosh ... ..	each	—
	Pressure ... ..	Canvas ... ..	„	—
Bottles, Cleansing Gas..		Copper, Brass Mouth-piece ... ..	„	—
	Brass ... ..	1 Quart Spirits of Wine	„	0 5 6
Cases {	Iron ... ..	2 Gallons Oil or Spirits, with Brass Tap & Key	„	0 5 10
	Tin ... ..	38-lbs. Oxygen Mixture	„	1 4 7
Flasks ... ..		Brass, with Cap forming ½-lb. measure, for 4-lbs. Oxygen Mixture... ..	„	0 9 8
Lamps ... ..		Copper, with Flashing Disc ... ..	„	0 13 1
Lenses ... ..		In Brass Frame ... ..	„	5 3 11
Pencils ... ..		12 in Sand in Glass Bottle	doz.	—
Retorts {	Copper ... ..	With Brass Mouth-	each	—
	Iron ... ..	piece ... ..	„	—
Tubing ... ..		3/8ths	yard	—
Stand... ..		Helio or Lime Light ... ..	„	—
Methylated Spirits			gallon	—
Manganese ... ..		Binoxide, Granulated...	lb.	—
Potash ... ..		Chlorate Oxygen Mixture ... ..	„	—
Horns, Fog ... ..		Brass ... ..	each	—

## HELIOGRAPHS AND LIMELIGHT APPARATUS.

---

### Equipment Regulations, 1881.

A.O. 293,  
June, 1889.

1. It having been decided that each Regiment of Cavalry and each Battalion of Infantry at home and abroad (India excepted), shall be supplied with two heliographs and two sets of lime-light apparatus, the undermentioned articles will be added to table 17, page 116, and to table 13, page 136, of the Equipment Regulations 1881.

DESCRIPTION.	Peace.	War.
SECTION IV.		
Heliographs, 5-inch, with stand ... ..	2	2
Methylated Spirits ... .. pints	12	12
Oxygen Mixture ... .. lbs.	24	24
Tubing, I. R., $\frac{3}{8}$ -inch ... .. yds.	10	10
Wick, cotton ... .. lbs.	2	2
SECTION VI.		
Scissors, Lamp ... .. prs.	2	2
SECTION VII.		
Apparatus, Limelight.		
Bags. { gas ... ..	4	4
{ pressure ... ..	2	2
Bottles, cleansing, gas ... ..	2	2
Cases. { brass ... ..	2	2
{ iron ... ..	2	2
{ tin ... ..	2	2
Cylinders, lime, pencil ... ..	2	2
Flasks ... ..	2	2
Lamps ... ..	2	2
Pencils ... .. doz.	2	2
Retorts, copper ... ..	4	4

2. The sets of heliographs and lime-light apparatus which have been supplied to districts, should be returned to the Ordnance Store Department, and re-issued to Regiments agreeably to the above scale.

## RIFLES TO BE CARRIED.

G. O. 122—Signallers.

July 1887.

Signallers of infantry battalions will, when at Field Days, always carry their rifles slung across their backs, in order that they may be able to use them when required. They will also wear the expense pouch.

When marching past, the signallers will carry their flags and have their rifles slung across their backs.

## POSITION OF SIGNALLERS MARCHING PAST.

Infantry Drill, 1889.

Page 440.

When Signallers are not in the ranks they will march past two deep, 2 paces behind the Pioneers.

Forms.

For all Forms used in Signalling, see "Manual of Instruction," page 84 and 85.

HORSE GUARDS,

WAR OFFICE,

*2nd July, 1887.*

## INSPECTOR OF SIGNALLING, ALDERSHOT.

"Dummy Keys."

44.

G. No. 1206.

In reply to your minute of 8th ultimo, it is notified that the Commissary General of ordnance will issue on demand the "keys, dummy, signallers' (Mark I)" which are required for instruction in Signalling.

The instruments will be supplied at the rate of two per corps.

Signed,

A. GOLDSMID,

D.A.Q. M.G.

## IMPROVED HAND LAMP AND STAND.

### 5612. Lamp, Bull's Eye, Signal Mark IV., with Tripod Stand.

2nd November,  
1888. 44.  
Aldershot, 104.

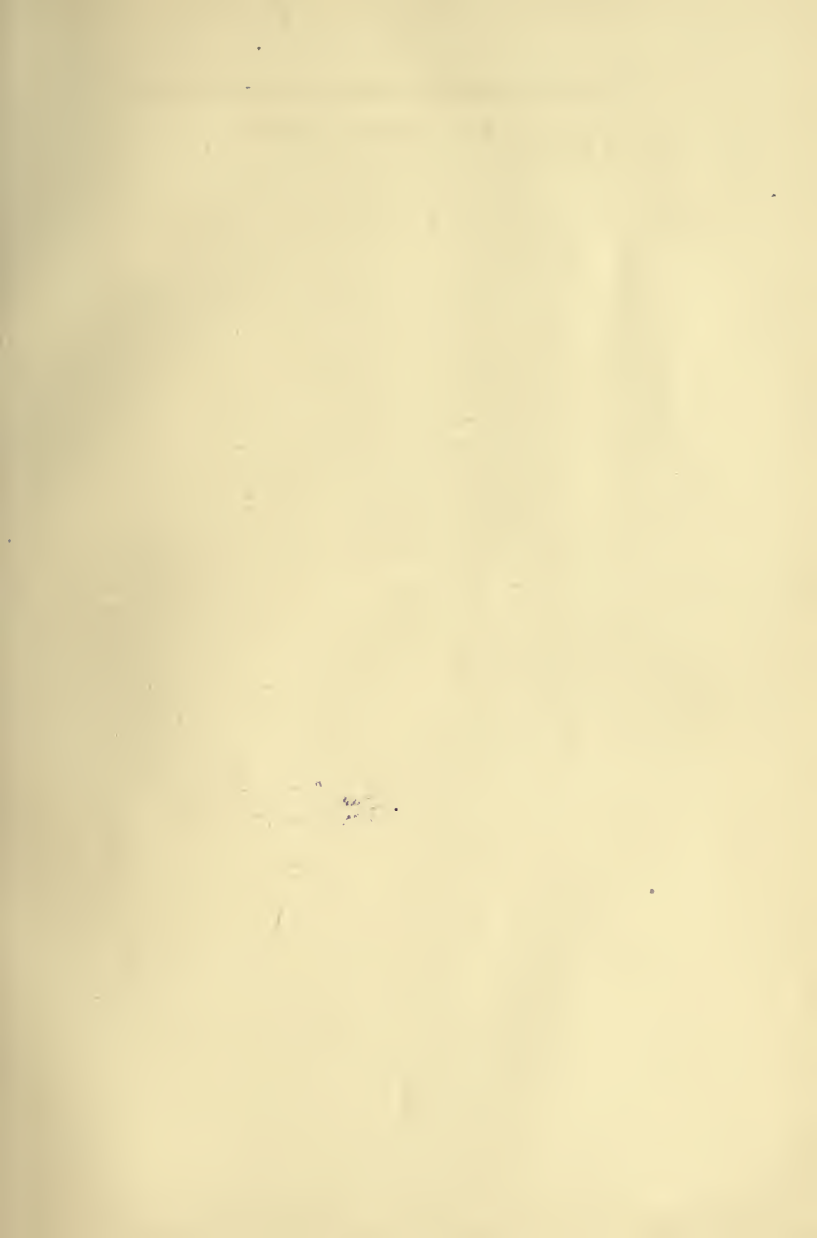
A pattern of this lamp has been sealed to govern future manufacture, and the alteration of existing lamps as specially ordered.

The lamp differs from Mark III (§ 5044), in the following particulars, viz., it is fitted with a socket at the base, to receive a pinned plug on the stand. The Asbestos slide rest, for keeping the disc in proper position, has been removed, and two leather stops substituted.

The reservoir is of larger size. The tripod stand has been introduced, as it was considered advantageous for working the lamp.

It is made of American birch, 2 feet  $9\frac{1}{2}$  inches in height, and is fitted with a leather strap, 14 inches in length, to secure the legs together when the stand is not in use. The strap is fixed to one leg of the stand by a brass plate, 8 inches from the bottom.



























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**“An officer or non-commissioned officer should qualify and instruct himself if he wishes to make his way; let him employ every available moment in learning his profession in its minutest details ; he ought to know how to do everything a private soldier has to do ; one cannot give orders on subjects of which one is ignorant.”—**

**DE BRACK.**

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




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

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