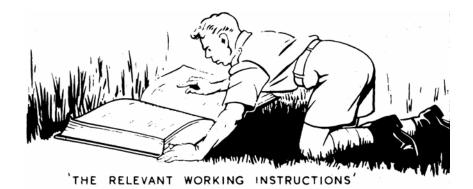
WIRELESS for the WARRIOR

Pamphlet Series

No. 4 'Tech Manual Art'





Cover, typesetting and layout: Louis Meulstee. Cover illustration: Working Instructions Wireless Set No. 88 Types A & B.

The cover artwork and layout of this WftW Pamphlet was prepared in Serif Pageplus X8 using Times New Roman, Arial, AvantGarde Md Bt and Poppl-Laudatio fonts. The scanned illustrations and photos were enhanced and prepared with the use of Adobe Photoshop (Elements). The finished publication was directly converted into PDF format.

Inspired by Ludwell Sibley's article 'Tec Manual Art', published in the AWA '*The Old Timer's Bulletin*' Vol. 33, No. 4, Nov. 1992. Reworked, amended and much enlarged edition publication in the WftW Pamphlet series No. 4. Version 1.00. February 2022.

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ISBN/EAN 978-90-829965-6-2

The Pamphlet Series.

This new series of publications replaced the 'Goldstone' and 'Overview' papers. The Pamphlet Series was created to accommodate a future range of reprints and articles of historical importance, hitherto not published documents, and reports on Army signalling. These can be downloaded from www.wftw.nl, freely copied and distributed, but only in the current form.

Note that the page layout of the Pamphlet Series was setup with mirrored pages, primarily intended for double sided (colour) printing, preferably on good quality class A paper.

For previously issued free to download WftW Pamphlets see page 67.



February 2022.

-WftW Pamphlet No. 4 Tech Manual Art

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About this publication

The title of this publication was originally devised by *Ludwell Sibley*, KB2EVN *), for an article with the title 'Tech Manual Art', (Art in military technical manuals) published by the Antique Wireless Association Inc. in its Journal '*The Old timer's Bulletin'*, November 1992.

As a follow up on this article Chris Bisaillion published a similar article '*Tech Manual Art - A Canadian view-*' in 1993, and I published a selection of similar illustrations of a more international character in the February 1994 issue of the Old Timer's Bulletin.

When recently requested to provide a few high resolution scans of two drawings from this article, I remembered that the original photocopies used for this article were stored 28

years back in a folder along with a large number of additional cartoons and line drawings photocopies, and later made scans over the years, mostly at the Royal Signals Museum Archives.

At that stage it was thought to be a good idea to share the pages of the original '*The Old Timer's Bulletin*' articles in a WftW Pamphlet, together with at the time due to space limitations not accepted cartoons, a collection of later found cartoons and other line art drawings printed in various technical manuals and other publications, directly or indirectly related to military signalling.

Although many of the illustrations in this WftW Pamphlet No. 4 came from technical manuals, user handbooks and training pamphlets related to signal communication in the Army, some were taken from general Army, RAF and Navy manuals.

Added at a much later stage during the preparation was a selection of cartoons found in 'Greetings from the Signal Service', 'Jimmy', 'The Buzzer', Australian 'Signals', and ATC Gazette RAF 'Q' codes.

Selecting, scanning and cleaning up over 460 illustrations was a time consuming job. Afterwards the classification (rejection in some cases) in a digestible order, divided in specific topics, took again much time when preparing the manuscript for publication.

*) Author of the standard book on valves entitled 'Tube Lore', isbn 0-9654683-0-5.

Acknowledgements

Special thanks to Ludwell Sibley, the originator of the first Tech Manual Art publication, an inspiration for two follow ups and this WftW Pamphlet No. 4.

My gratitude goes to the Royal Signals Museum in Blandford Forum, U.K., for granting permission of publishing line drawings from the original manuals, handbooks and publications held in the museum archives.

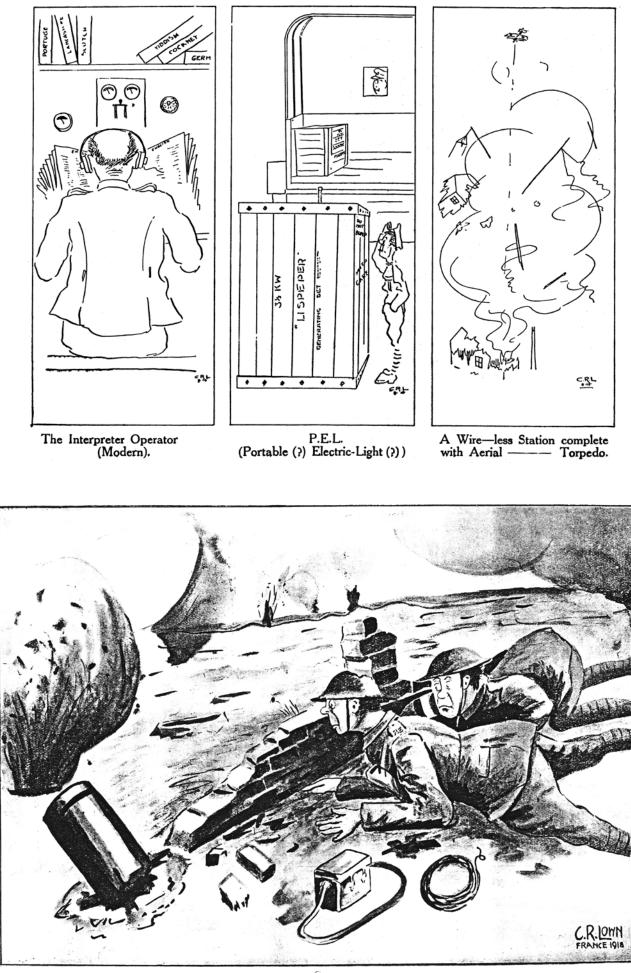
Chris Bisaillion, who published a first follow-up article in the Old Timers's Bulletin, gave kind permission to add his material, including a biography of 'Ting', the artist who draw the cartoons in several Canadian technical manuals, and provided scans taken from the cartoon pages of 'The Buzzer'.

With thanks to Pete McCollum and Chris Bisaillion for proof reading the draft document.

UK Australia Canada

GREETINGS FROM THE SIGNAL SERVICE ROYAL ENGINEERS was a small souvenir booklet with drawings by Royal Engineers Corporal C.R. Lown in 1918. An original is held in the Royal Signals Museum Archive. Most of the drawings were reduced in size. In those days Army communication was mainly based on lines (telephone, telegraph) and dispatch rider (D.R). *(Ref. No. 92).*





"Wish I'd stopped at the Depôt, Alf."



"Blime, Alf! Oo's pinched our blinking test box?"



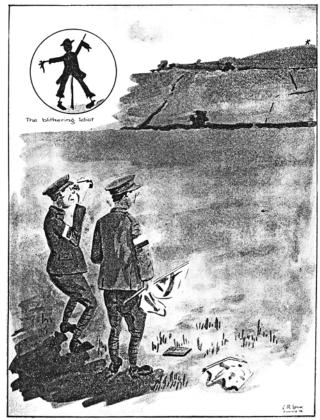
Buzz or Bust : Sapper Fone applies for Superior Rating.



"Where's 'eadquarters, mate?" "Well, they were in that there shatoo before dinner."



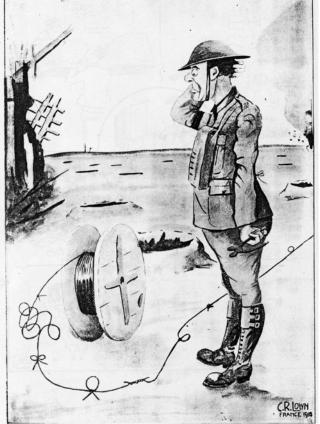
"Bring them pliers, Jock !" " В— — the pliers ! ! ! "



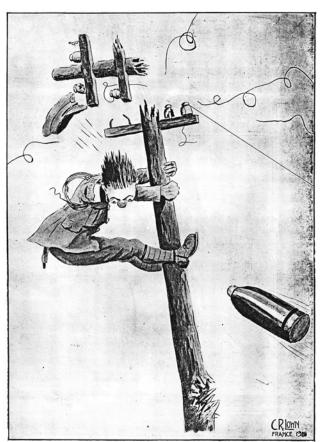
"What's that blithering idiot trying to send now, Alf.?"



" Don't shout so ----- loud there Mac. You'll give our position away."



Pioneer Diss recognizes the drum he worked overtime on at the Base Depôt.



" It's an 'earth-return,' Bill."

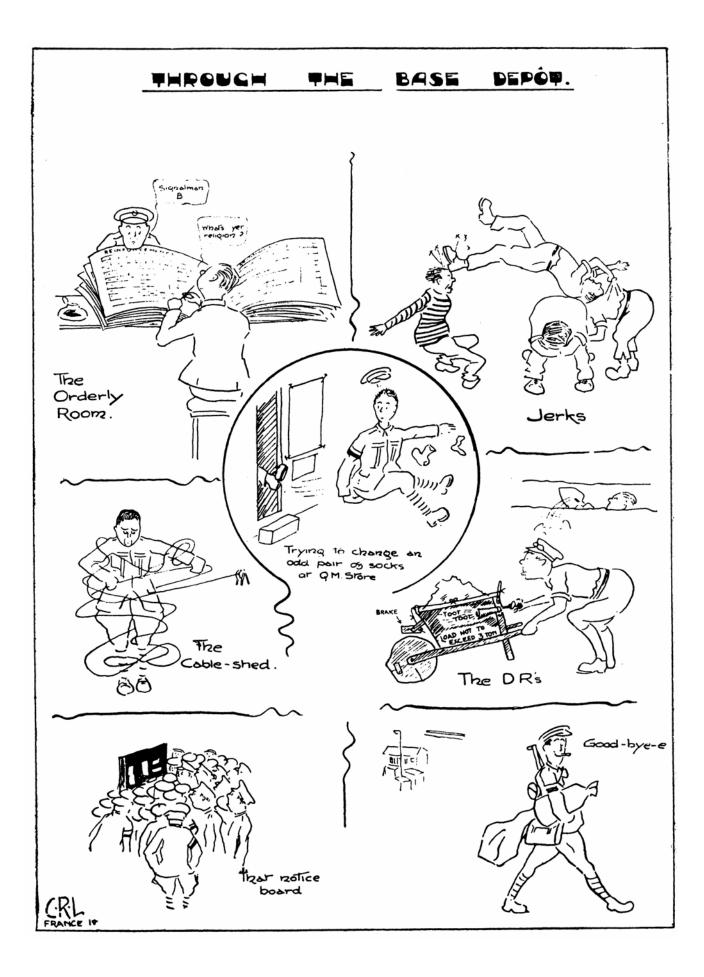


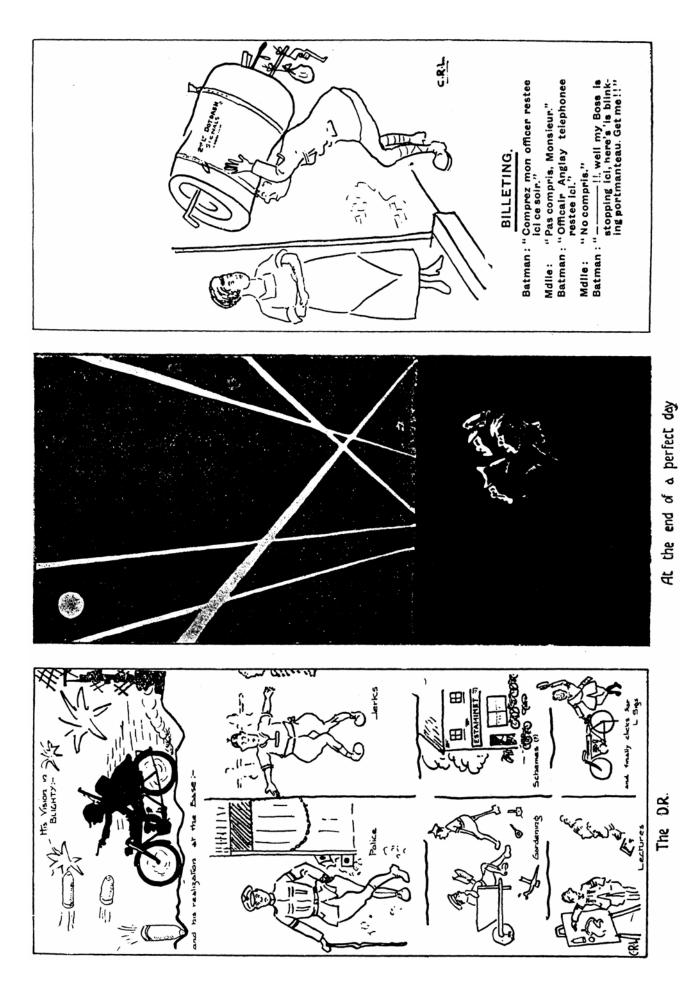
At the end of the wireless course-"What are the wild waves saying?"



The Power of the Buzzer :one who didn't know.







'All informed'

'ALL INFORMED' or *'A Staff Officer's Guide to Signals'* was a small printed booklet issued to staff officers explaining and guide lining the job of the Royal Corps of Signals providing maintenance and operation of army communications for most formations down as far as battalions. The publication gave hints on the efficient use of a telephone, wireless message writing, and foremost working together as a team.

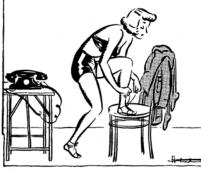
'...don't expect your lineman how to hold a pigeon...don't be surprised if your operator cannot join a 7-pr. cable or ask your instrument mechanic to climb telegraph poles...if you want the telephone in your office moved, don't grip the first signalman you see -he will probably be a driver anyway- but talk to an officer...'. (**Ref. No. 45**).



... how to hold a pigeon



... grip the first signalman



RESTRICTED

All Informed

A Staff Officer's Guide to Signals

Reprinted with Amendments (No. 1)

The War Office October, 1943 pared under the direction of of the Imperial General Staj

... subscribers change frequently



. . out of bounds



... plain shouting



... soft voiced by nature



... very wild indeed



. . . from the signalman



... a penny a word

AREE TOPS

... range of temptations



... sew on buttons

Provisional Signal Training Pamphlet No. 3



MAKE SURE THAT

One of the richest sources of line drawings was (provisional) *Signal Training Pamphlet No. 3*, Maintenance of signal equipment in the field. *Part 1: General principles of maintenance for operators.* (170 pages).

It was written for the School of Signals in Catterick in 1947, jointly by the School of Signals (Publications department) and the publications section of the Signals Research and Development Establishment (SRDE) in Christchurch. It covered all aspects of maintenance and preservation of signal equipment using a large amount of relevant and up to date data e.g. on experiences gained during WW2, particularly storage and use in tropical environments, richly illustrated by a large number of cartoons. This publication was only provisional, with the ultimate intention of the War Office being to revise and re-issue the final version at a later date. The probably only known copy of this pamphlet that survived is held in the Royal Signals Museum Archives in Blandford Forum.

It was eventually published in its definite form as Signal Training Volume III, Maintenance of Signal Equipment in the field, Pamphlet No. 1 General Principles of Maintenance, WO Code No. 8505, 1950. (Ref. No. 46).

Excerpt from the introduction: 'Need for maintenance'

...the success of a modern army depends directly on the efficiency of communications, and this in turn is dependent on the signal equipment being always in perfect working order. It is therefore particularly important that all signal equipment should always be kept in perfect condition, otherwise it may break down and interrupt communications, thereby completely upsetting the commander's plan and perhaps turning a victory into a defeat...



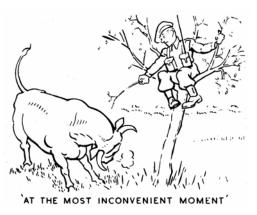
UPSETTING THE COMMANDER'S PLAN



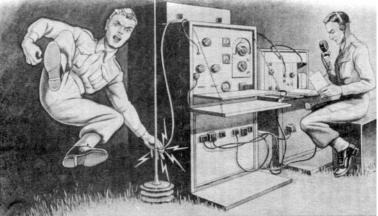




HEAVY OBJECTS ON IT







NEVER TOUCH THE AERIAL WHILE SET IS ON -"SEND"



MAY BE KICKED OR TRODDEN ON



DONT OPEN BOXES AT RANDOM



'PRODUCE DISTORTED SPEECH





LEAD A COMFORTABLE EXISTENCE



DESPERATE EMERGENCIES



LOW TEMPERATURES HAVE A DELETERIOUS EFFECT ON CERTAIN ITEMS OF EQUIPMENT



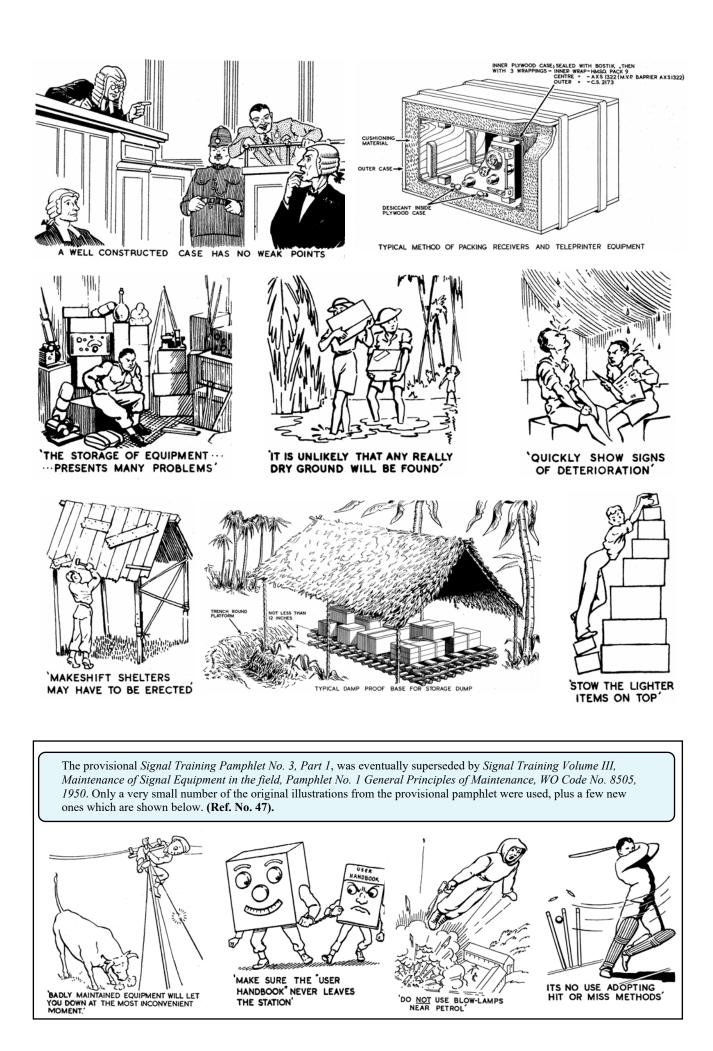


THE FREEZING OF BREATH MOISTURE



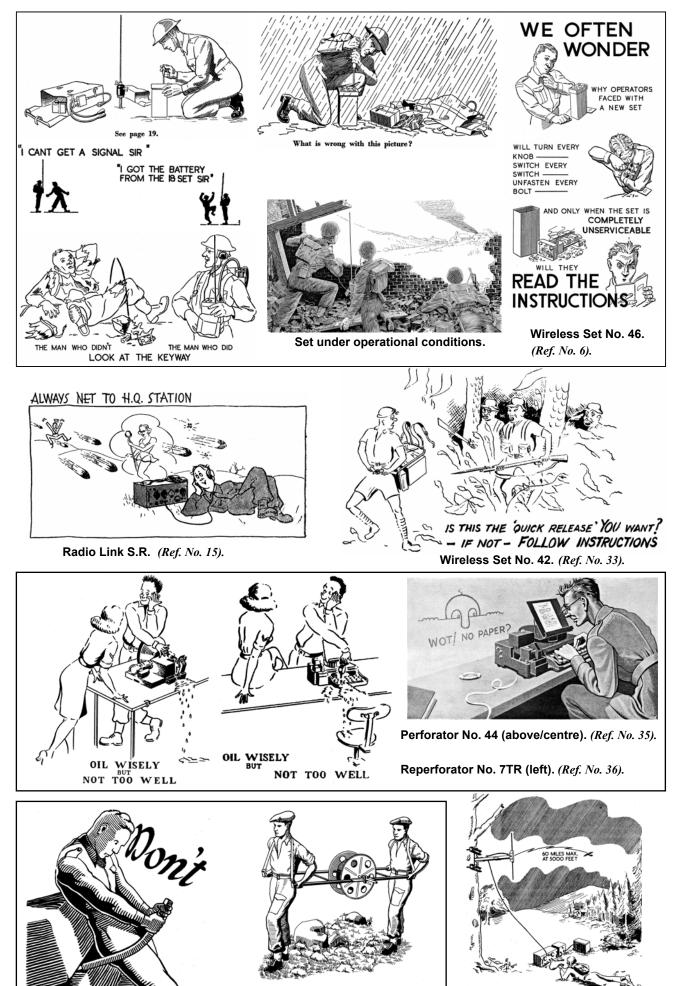


DRY OUT EQUIPMENT AS OFTEN



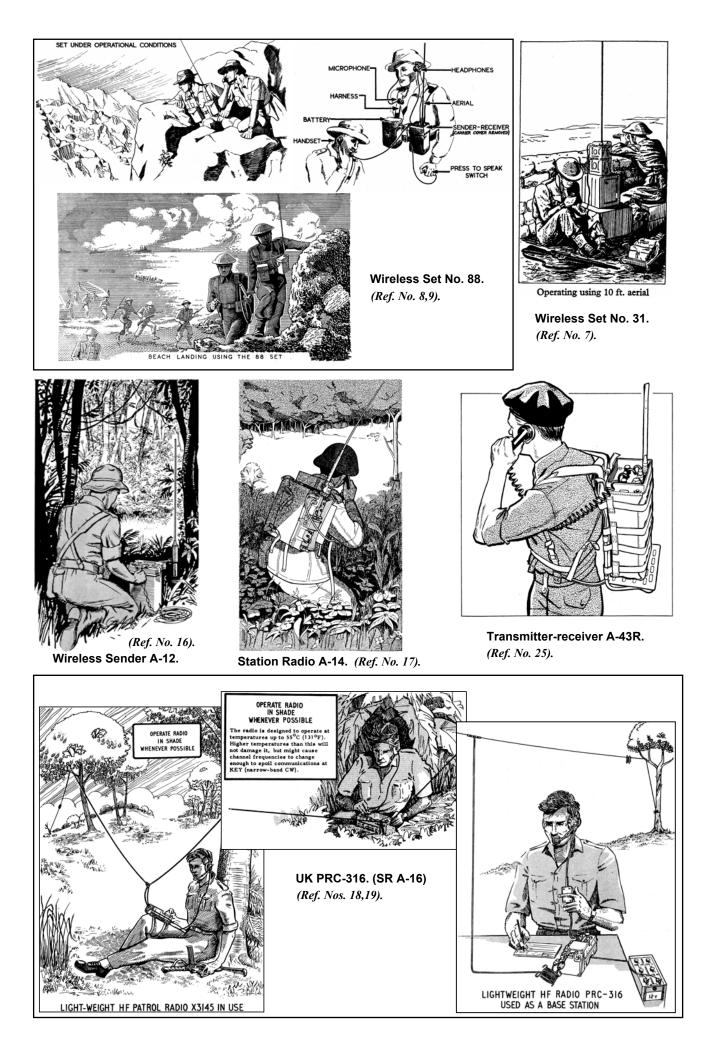
- British WW2 and post war manuals/working Instructions —

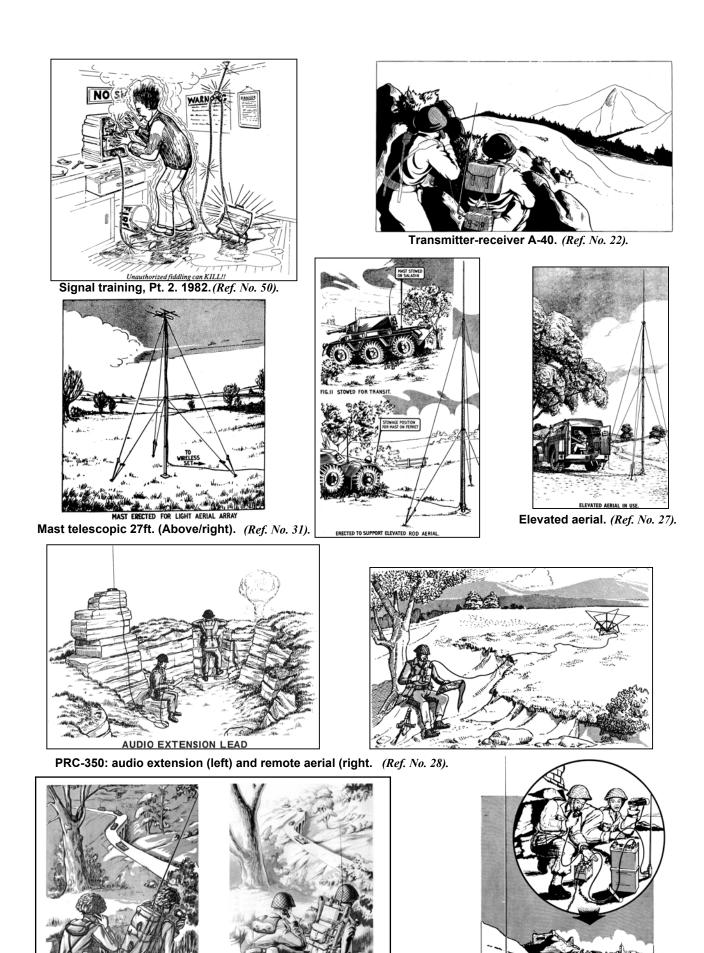




Apparatus cable laying No. 11. (Ref. No. 37).

WS C.N. 348. (Ref. No. 34).







Rebroadcast T/R A-41/A-42. (Ref. No. 26).

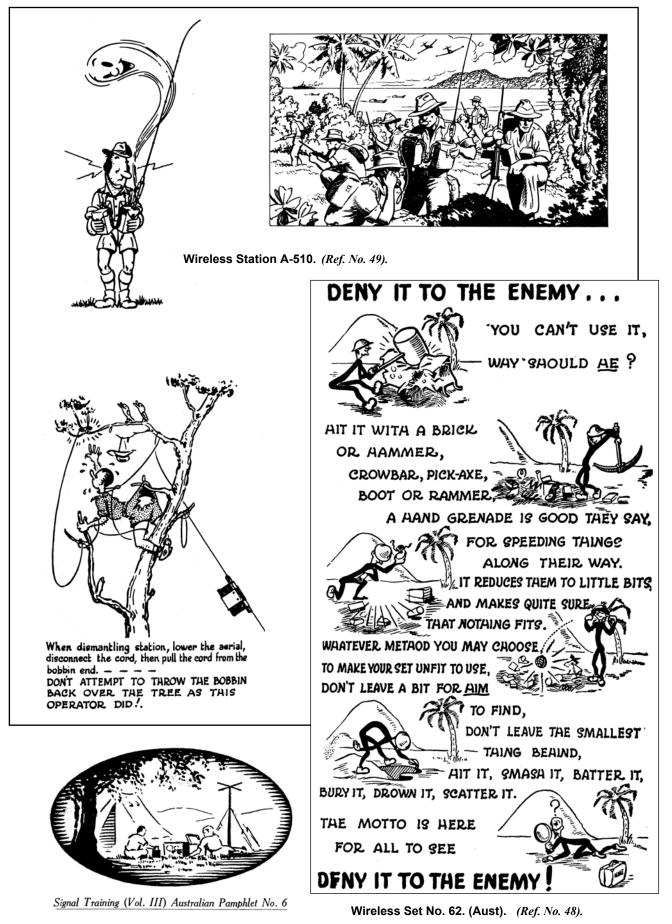
OPERATIONAL USE

(Ref. Nos. 23/24).

T/R A-41/A-42. Work of two artists.

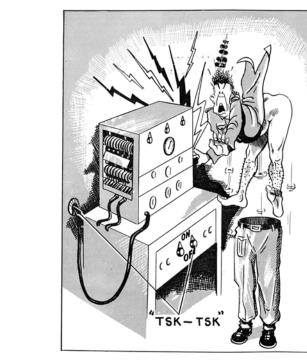


Australia

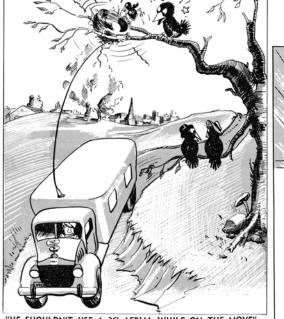


Wireless Set No. 11 (Aust). (Ref. No. 41).

Canada

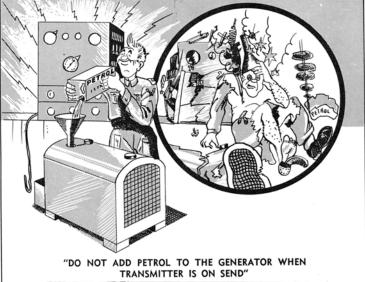


All illustrations on this page: Transmitter Canadian No. 43 Mk.II. (*Ref. No. 10*).



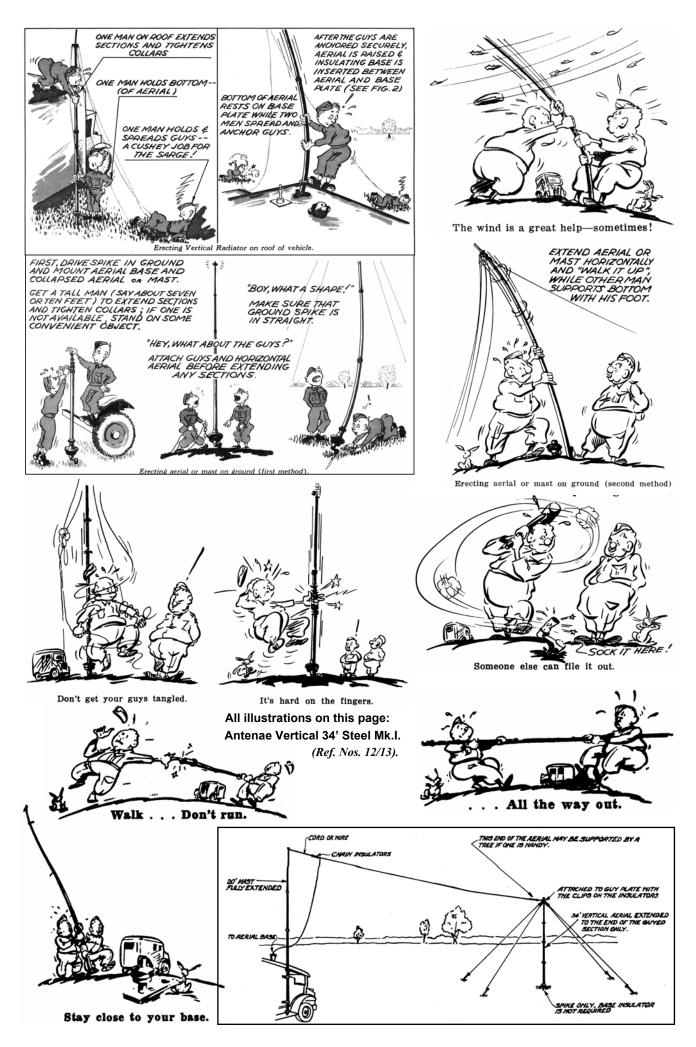
"DO NOT SWITCH CHANNELS WITH THE CATHODE METER READING GREATER THAN TEN"

"HE SHOULDN'T USE A 36' AERIAL WHILE ON THE MOVE"





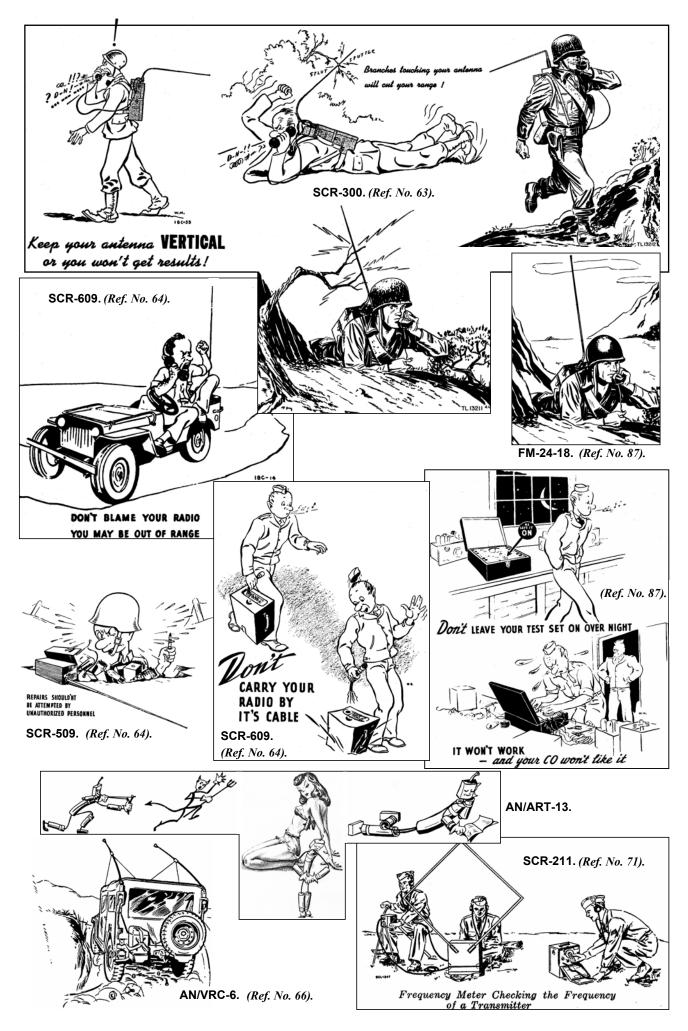




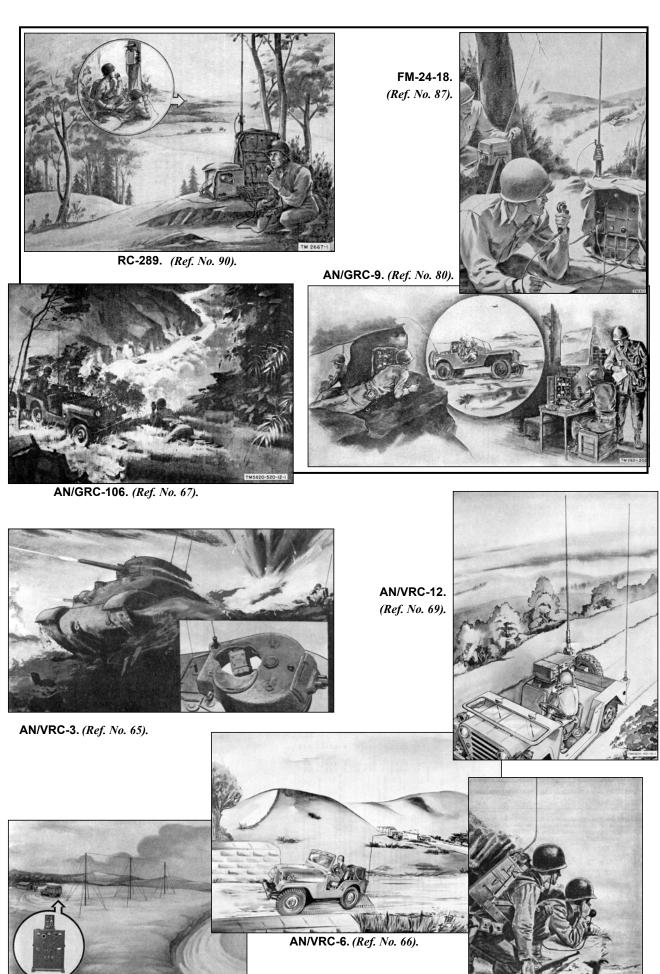
USA

USA WW2 manuals and working instructions —









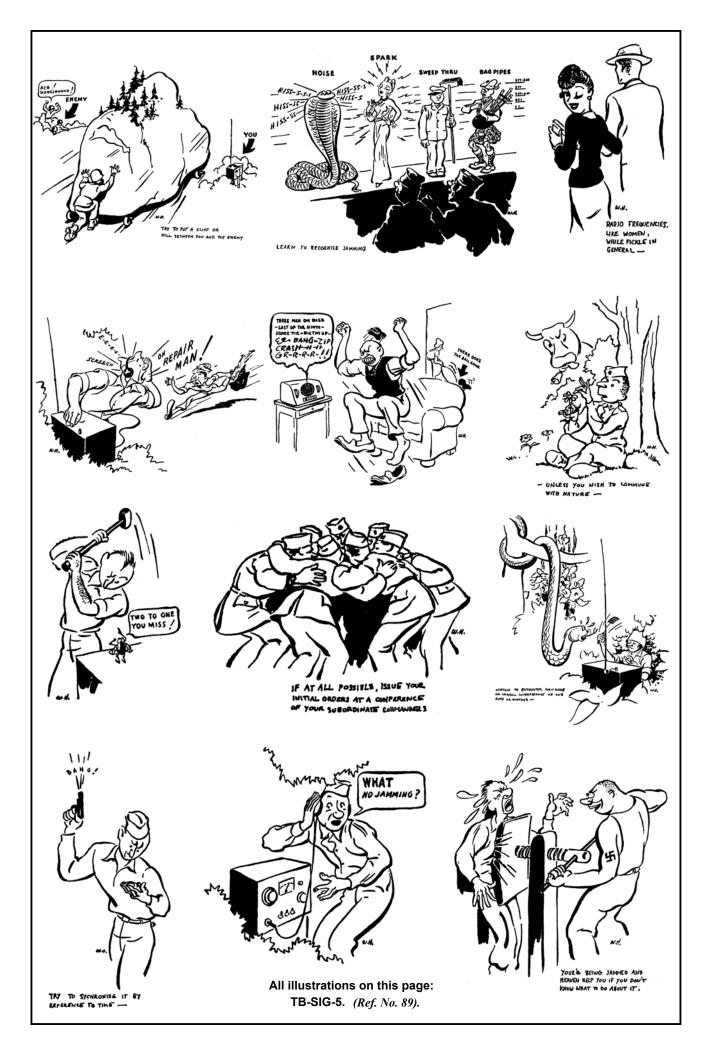
BC-610. (Ref. No. 70).

SCR-300. (Ref. No. 63).

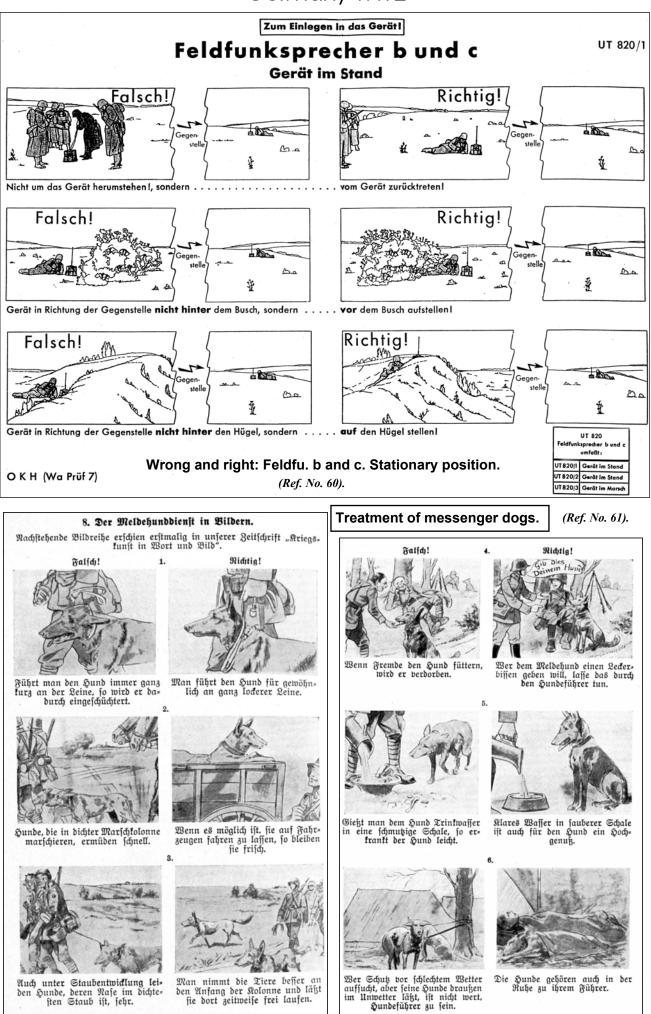


DON'T FIDDLE WITH ANTTHING YOU DON'T UNDERSTAND -

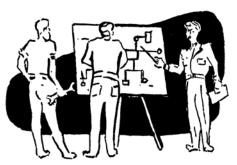
BECOME FAMILIAR WITH THE INSTRUCTION BOOK



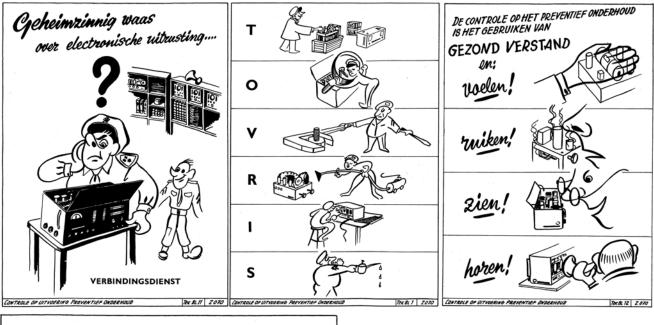
Germany WW2

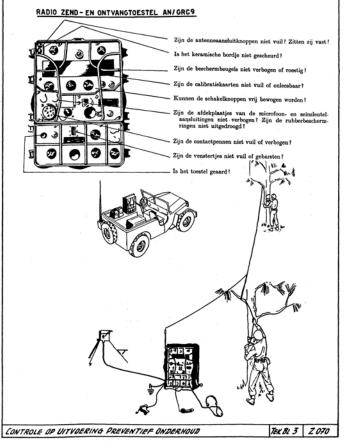


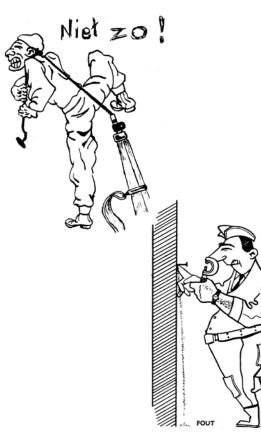


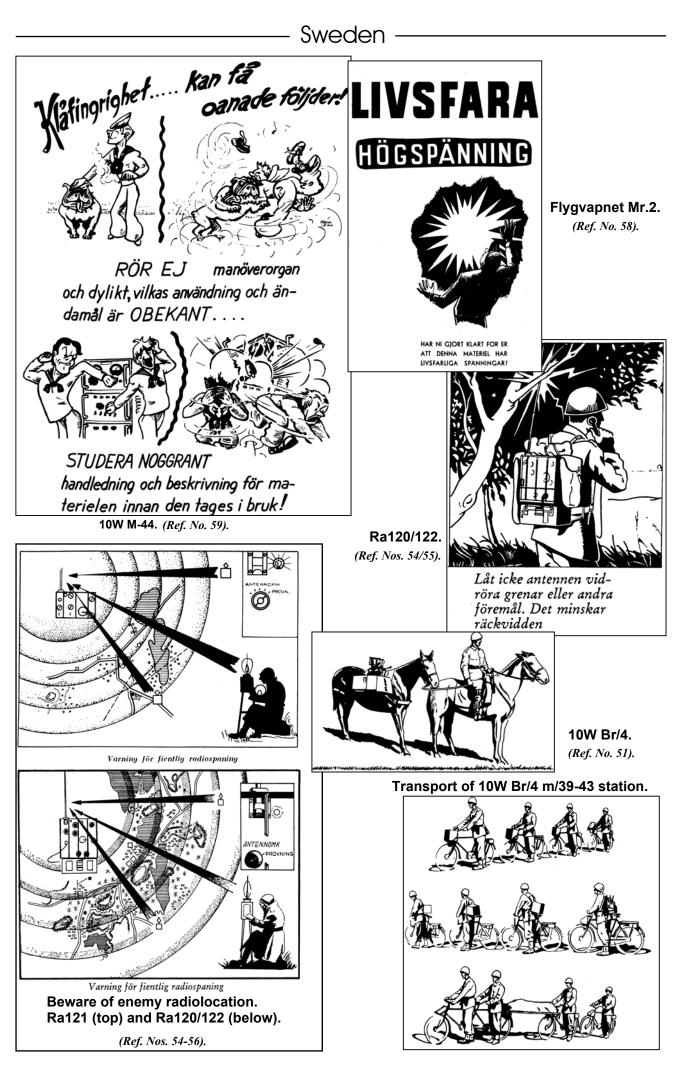


All illustrations on this page are from: Preventief Onderhoud (Preventive Maintenance), Voorschrift Nr. 1325, M.v.O., Feb. 1954. (*Ref. No. 29*).

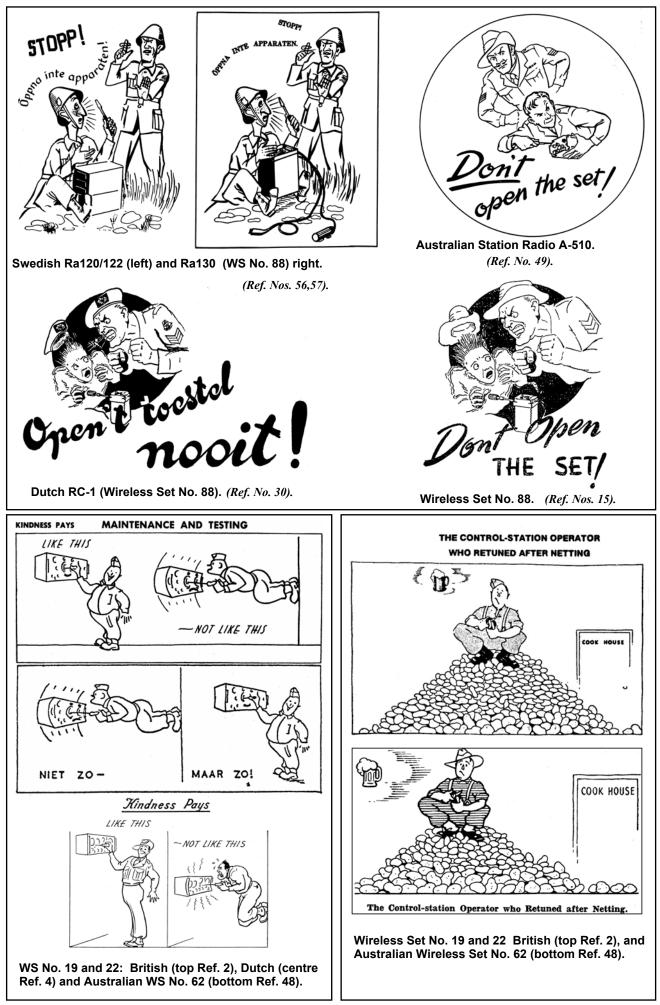




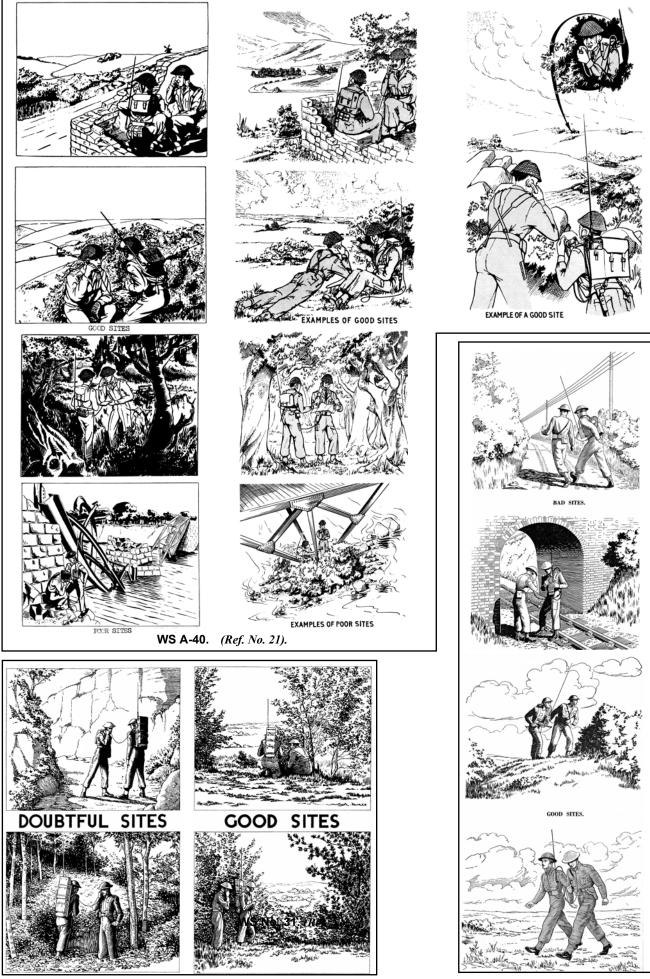




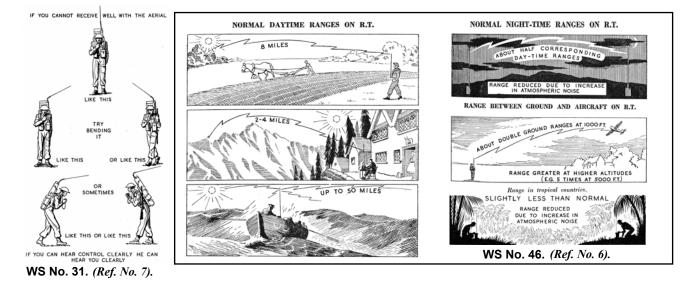
-Variations on a theme



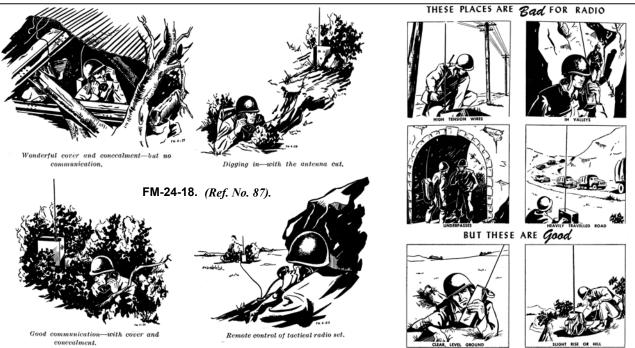
Good and bad sites...UK



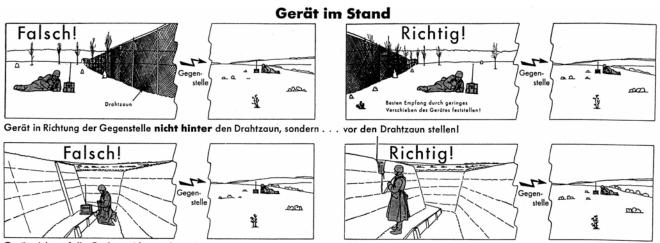
WS No. 31. (Ref. No. 7).



Good and bad sites... USA 1D FOR RAI Siting THESE PLACES ARE BAD FOR RADIO Ser. Call BAD BAD Steel bridge UND THESE ARE GOOD BUT-THESE ARE GOOD BETTE SLIGHT RISE BIG HILL ON LEVEL GRO See Add GOOD SCR-509. (Ref. No. 64). SCR-300. (Ref. No. 63). SCR-193. (Ref. No. 62). THESE PLACES ARE Bad FOR RADIO



Good and bad sites... WW2 Germany.-



Feldfunksprecher b and c. (Ref. No. 60).

Good and bad sites... Sweden.

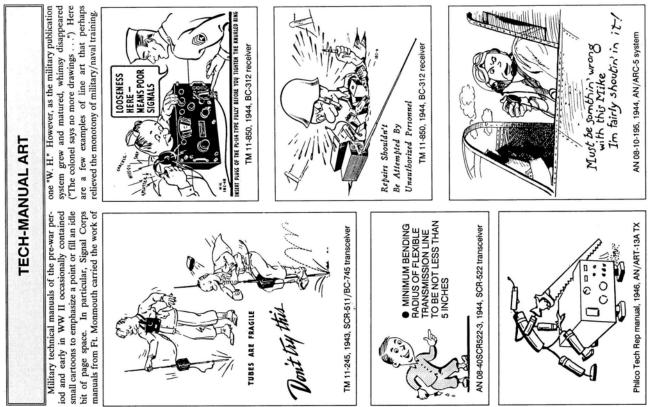


ian Forces were looking for a cartoonist to en-hance the army magazine Khaki. Ting got the job. Later he transferred overseas to serve on the ing graduated from Montreal High School, but his editor says he can spell anything but words. That's why he draws pictures for a living - and has to become a draughtsman. That career was shortlived when he doodled a worm into a building Apparently engineers don't like worms in (Today, With Hitler on the warpath, Tingley joined the uch fun with of the road on e visited newspapers The would-be bucher at The Two months later he gley has entertained our peace-keeping forces in : Congo, Cyprus and Europe. Added to this are two missions to the Pacific Merle Randolph Tingley has one wife, Genie, two sons, two cats, and a dog, and of course, Luke Randolph Tingley was born in Montreal. Hardly anyone calls him Merle Randolph: he's "Luke Worm" appears hidden in all of Ting's cartoons and readers of all ages enjoy the daily chalarmy in 1942. Shortly after, His Majesty's Canad-The art department of an advertising agency but the cartoon bug ies with the troops, Tining, two children's books and nine volumes of his ... from the Community Relations Department, Lon-don (Ont.) Free Press He did take an art course, but left after one year first Free Press cartoon idicated to a number and the Far East sponsored by the Americar Among his laurels are 15 national and internafive for humorous writ-As a designer for London's fantasy park, Story book Gardens, Ting has been on the advisory lenge of unearthing the little critter with the corn across Canada. foundations of their solid structures. committee since its inception in 1958. TING BIOGRAPHY picked him up after the war. affectionately known as "Ting. Source material from Chris Bisaillion, VE3CBK 1324 Old Carp Rd., R. R. No. 1, Kanata, Ontario K2K 1X7, Canada forces daily The Maple Leaf **TECH-MANUAL ART - A CANADIAN VIEW** had bitten and you can' become pretty good at it. cartoonist took a job as a tional awards, including lost his London Free Press in Korea, the Mideast, t beans, soap and deog wormed himself int from coast to coast, Free Press cartoons. a second-hand mo of daily and we de ist's job. He's sti Never having Ting carts government. pipe. Merle Worm. plan. cop Ting showed some examples of cartoons in U. S. mili-tary technical manuals from early in WW II. The **.**... (OTB, Nov. 1992, p. 47) VE3CBK, with some background focused on story drew comment from Chris Bisaillion. Set No. 52 and about half the artwork in the 1944 explained that military cartoonists were not alsubstituted animals for signatures. He didn't do this until later, when he introduced a character Chris interviewed Ting at "Humour Under In particular, the syndicated newspaper cartime drawing the figures in the manual for Wireless Some of the smaller figures from the antenna lowed to sign their names to their work, so they Fire," a special open house of war cartoons at the This is a small museum in downtown Ottawa, part of the Na-tional Archives of Canada [136 St. Patrick St., (613) 995-5138, open every day, 10 AM - 6 PM book for "Antennae Vertical 34' Steel Mk manual show a bunny-rabbit, semi-hidden. toonist, "Ting," did military work at the VEHICLE & GROUND called "Luke Worm," a signature to this day. WIRELESS SET, CANADIAN Canadian Centre for Caricature. STATION No 52 They are reprinted herewith. and until 8 PM on W-Th-F "Tech-Manual Art" Canadian manuals.

Appendix 1

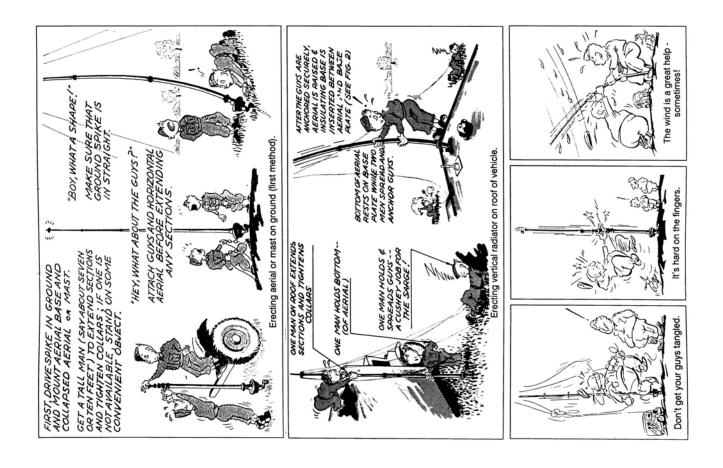
This is the original article by Ludwell Sibley, published in the AWA 'The Old Timer's Bulletin' Vol. 33, No. 4, Nov. 1992.

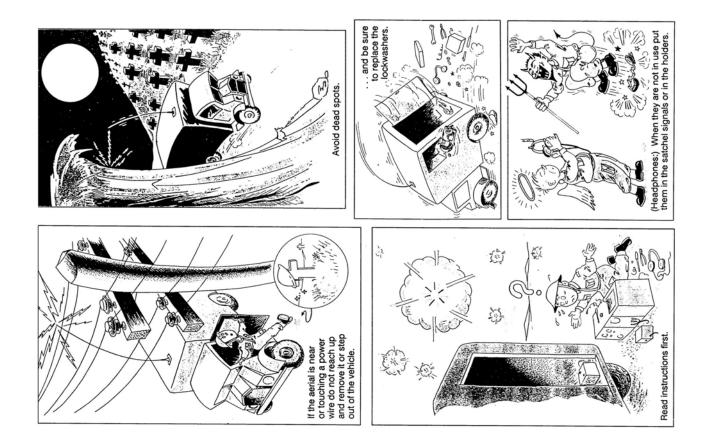
(Ref. No. 93).



The first of the two the follow-up article (4 pages) published in AWA 'The Old Timer's Bulletin' Vol. 34, No. 2, May. 1993. (Ref. No. 93).

Appendix 2



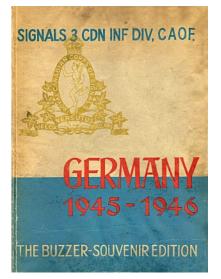








Appendix No. 4 'The Buzzer" —



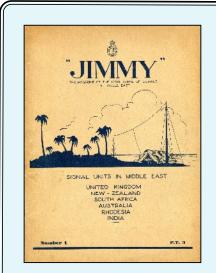
(Ref. No. 97).

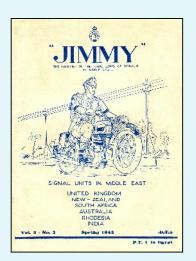
'The Buzzer' was the magazine of the Royal Canadian Corps of Signals in the 3rd Canadian Inf. Division. A souvenir book, issued by 'The Buzzer', covering the period 1945-46, contained many photographs and two cartoon pages.



Appendix 5 'Jimmy'.

(Ref. No. 94).





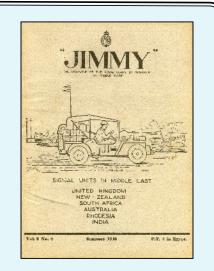
80 years ago the Royal Corps of Signals issued their first issue of 'Jimmy', the magazine of the Royal Corps of Signals in Middle East. It was printed in spring 1941 by E. & R. Schindler, a civil printer located in Cairo; later printers were C.E. Albertini in Cairo, and the Jerusalem Press Ltd in Jerusalem. After 10 issues, the magazine ceased to exist at Volume 3, No. 10 (Winter 1944-45). Original copies of the magazine are rare; a complete set of 10 issues is held in the Royal Signals Museum in Blandford Forum, and possibly in the Imperial War Museum.

It is difficult to trace the editors of the magazine, just the name of D.M. Naylor, Major, Royal Signals, can be attributed. Fortunately the names of the individual contributors of stories, photographs, poems and cartoons were stated. In that respect the name of G. Boyington ('Gboy') should be mentioned as top contributor of quality drawn cartoons.

(Part of editorial and introduction in Vol. 1 No. 1 by Maj. Gen. R.E. Barker, S.O.I.C., and editorial in Vol. 3 No. 2, the final issue).

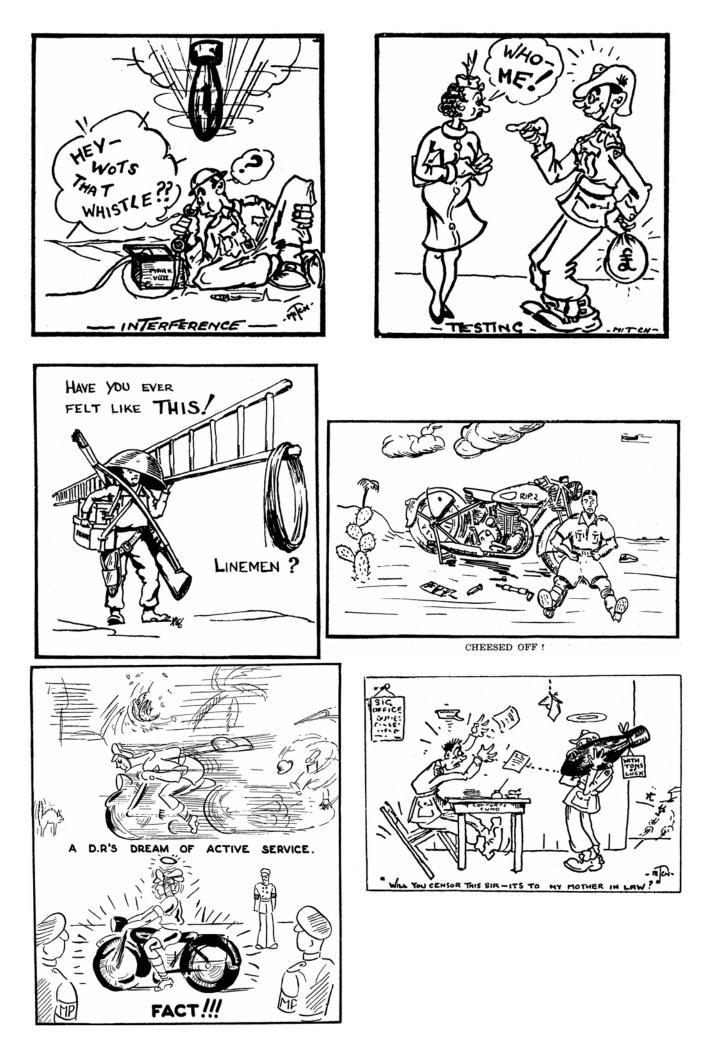
...the idea of producing a Signals Magazine for the Middle East has been thought by certain enterprising Officers, who have spent much time and labour in organising and producing it. The idea has been theirs, their labours have been purely voluntary, and we owe them an extreme debt of gratitude for first at all of the Bright Idea, and secondly the work they have put in...

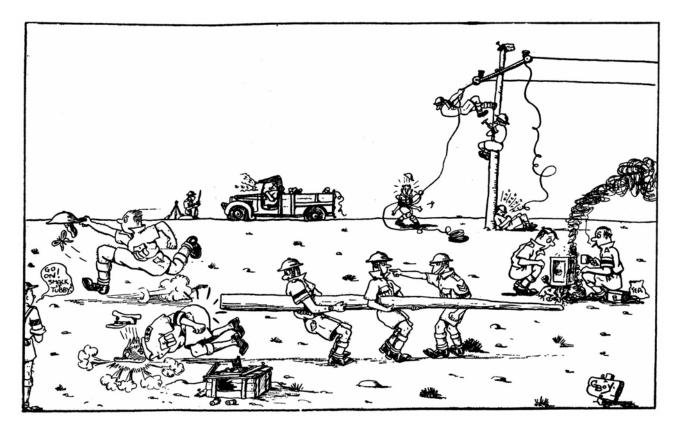
...the main goal was to give men interest in idle moments. To try and let all know how different Units are progressing through this is made difficult owing to the restrictions of censorship, and to provide some record of our doings amongst Signals in the Middle East, in account of events which are passed, and which will be allowed past, the aforementioned censor...

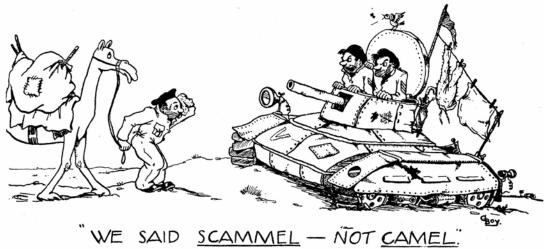


... 'Jimmy' has not always been an easy child to handle. We freely confess that issues have been late in appearing, Spring Numbers have appeared in the height of the Summer, and Christmas Numbers as well into the Spring. At times, complete issues have been missed altogether. But Jimmy was brought up in the limited spare time of a regrettably small number of individuals who had an idea and did all they could to develop it. And we think that they succeeded...

These scans were taken a number of years ago in the museum archive with kind permission of the Royal Signals Museum. One of the main characters in the comics published in Jimmy over the years, drawn by Gboy, is printed above at each side of the cover. *I intend to publish most of the Jimmy cartoons as a supplement in the Pamphlet series No.* 4 'Technical Manual Art'.

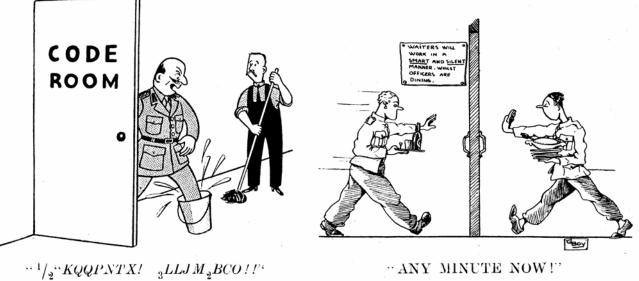


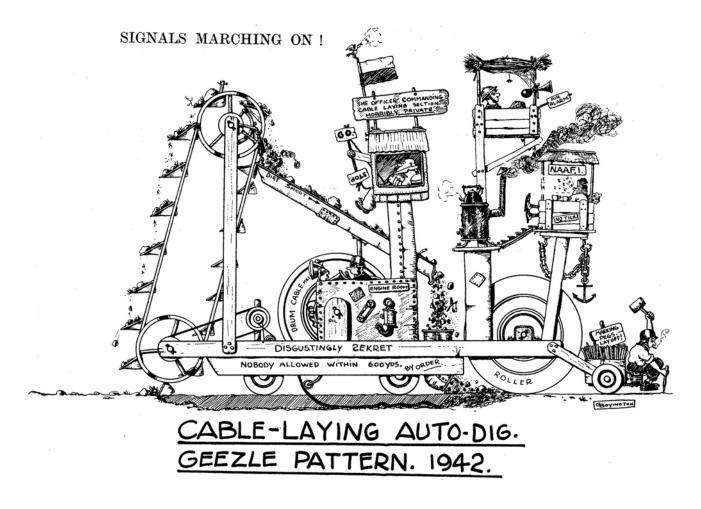




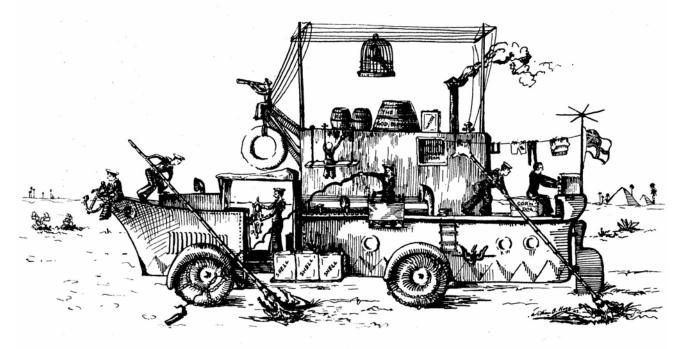
(For those who are unaware: meant was a Scammel tank transporter)

ARMY TERMS ILLUSTRATED

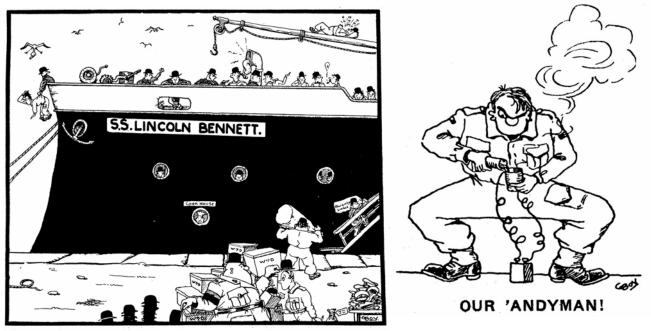




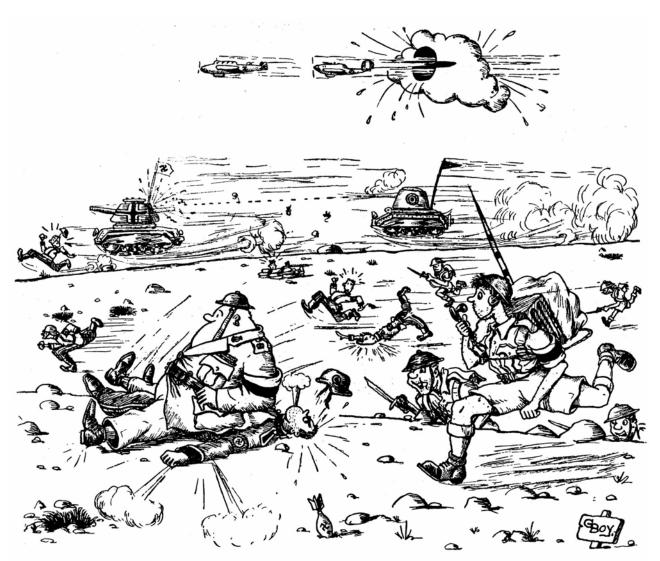
WITH THE COMPLIMENTS OF THE FLEET WIRELESS OFFICER



THE MATELOT'S IDEA OF AN ARMOURED DIVISION

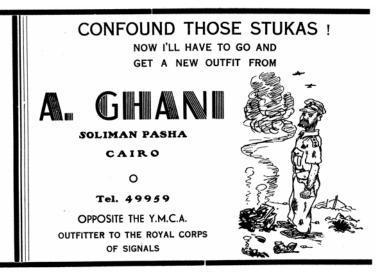


Homeward bound !



"THE MAJOR IS BUSY RIGHT NOW, SIR: SHALL I ASK HIM TO CALL YOU BACK ?"





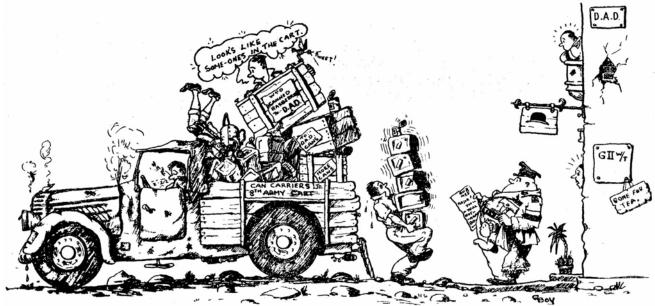
"But surely, Major, that's not in Signal Training !"





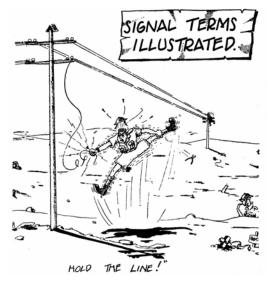
My Quartering monger, the Noble Sir Allsop

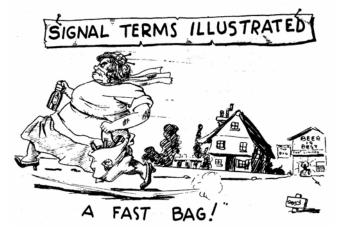


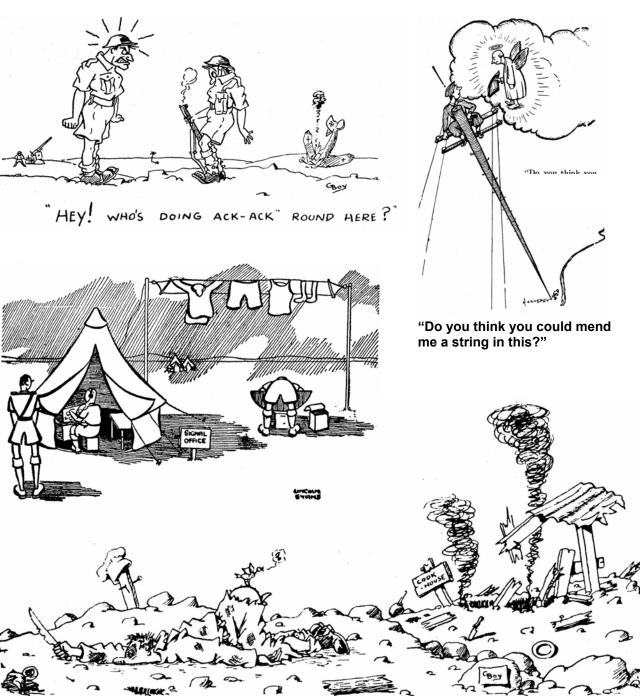


THE MIDDLE EAST CAN CARRIERS ASSOCIATION Ltd. (Advert)









56

"I should have known that was'nt a melon" !



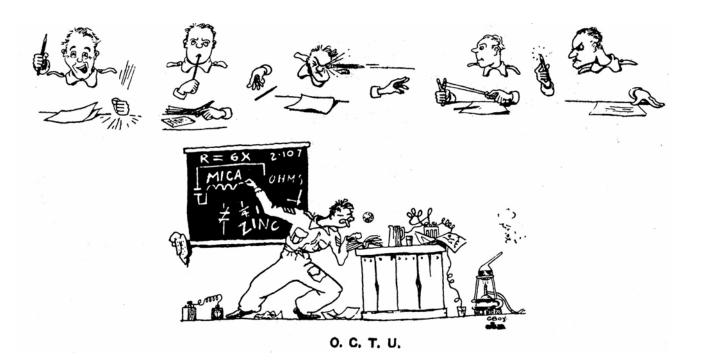
I often think of the woods and fields at home.



"-- and in future we require all messages in duplicate!"



"..D.R. Desert style.. priority delivery"



WAR ESTABLISHMENT OF A THOUGHT READING SECTION, R. SIGNALS

Goo

EXPLAINATORY NOTE: The many and urgent demands made by Stalls on Signals have rendered necessary a high standard of thought reading among Signal Sections. The above W.E. has been designed to standardise thought reading throughout the Corps.

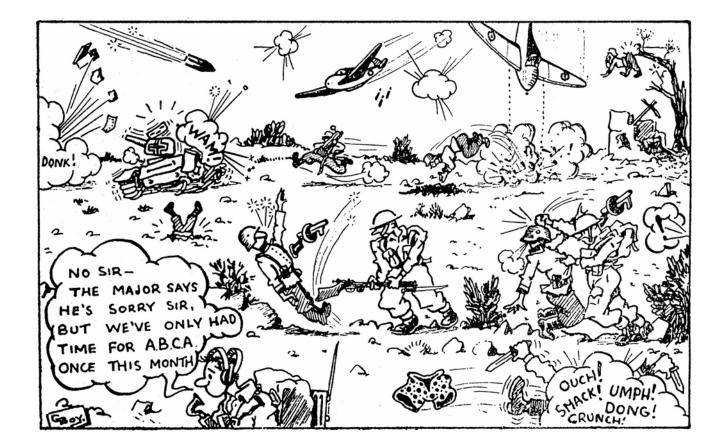
DETAIL	
Officers (Magicians)	1
Total Officers	1
Operators Telepathic	6
Instrument Mechanics (Necromantic)	2
Broom Riders	2 .
Cipher Operators (Planchette)	3
Oracle Workers	2
Icial Other Ranks	15
Total All Ranks	16
G 1098 STORES	
Capi, Magicians, Spangled Mk II	,
Palls. Crystal Gazing	4
ards, fortune telling	52 (a)
Nands, waving, left to right Cloaks, invisible, (Sheoheard's Type)	2
Brooms, stratospheric	2
a) East of Daba 53.	•

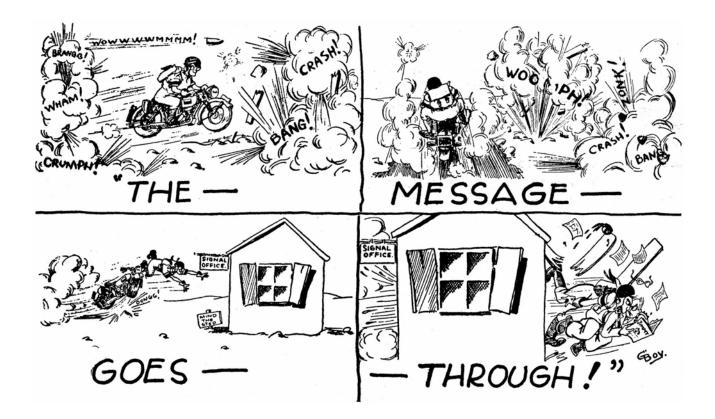
Nº VI BAT LOF

CONFERENCE



"NOT "HOW DID WE" DENNIS. "HOW SHALL WE ?"







Appendix 7 'SIGNALS'

(Ref. No. 96).

'Signals', story of the Australian Corps of Signals, written and prepared by members of the Australian Corps of Signals in early 1945, was an outline of the achievements of the Australian Corps of Signals over the years from the campaigns in the Middle East to the 1944 victories in New Guinea. It payed tribute to the arm of the service which was on duty every hour of the day providing and maintaining vital communication channels for passing of Signals traffic to the far-flung headquarters and units of the Australian Military Forces.

A selection of cartoons for WftW Pamphlet No. 4 was taken from this book which is very recommendable reading, illustrated with numerous photos of signalling in actual use ranging from pidgeons, Fullerphone and other line equipment, to wireless.



That's the new O.C. Pidgeons.



"Oh boy! Dinah Shore!"



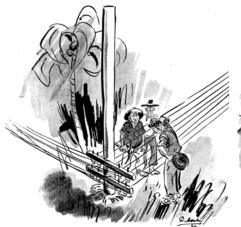
Dedicated to a temperamental Jeep.

"She's coming through a good strength 5, mate"



"Line out, jeep in!"



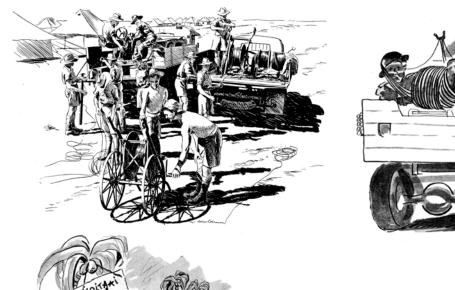


"Just can't put my finger on it – but we've done something wrong, boys!" "Just about another inch, Joe!"

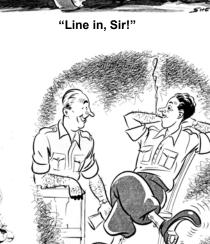




"What seems to be the main trouble?"







"Well, he SAID-'Send with the other foot'!"

"How many times must I tell you — More wrist movement with those dits!"

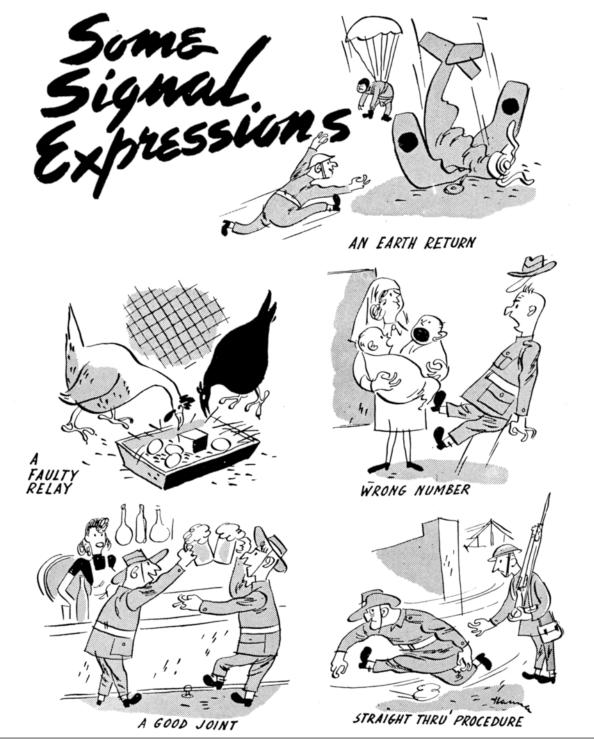


"Top button, Dig, you are regimentally undressed!"





"Cough up that flamin' despatch, yer cow!"



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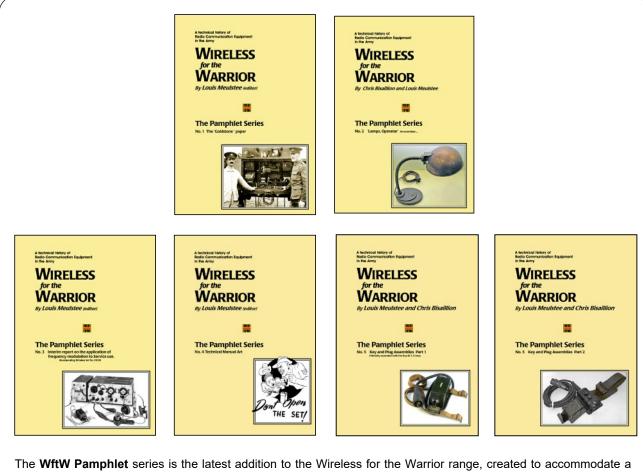
NOTES _____

WIRELESS

WARRIOR

A loose leaf folder for the WftW Pamphlet Series.

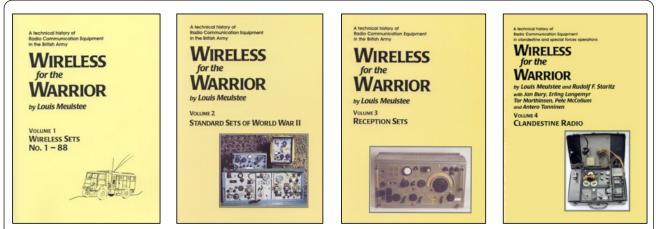
Shown right is a suggestion for a simple and inexpensive method to keep the printed pages together in a plastic clear view A4 document folder. Printable front and rear cover sheets, provided with the downloads, will give the folder an attractive appearance.



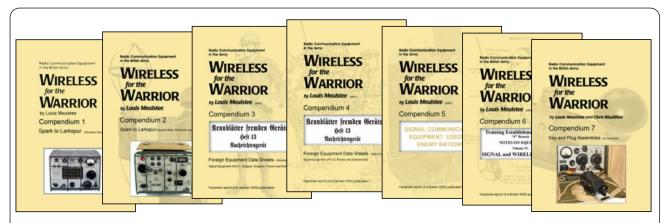
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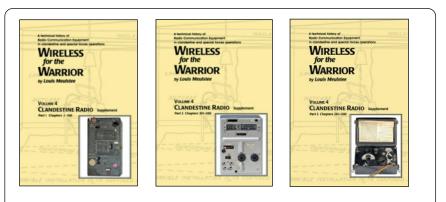
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