

MC ELROY CHART OF CODES AND SIGNALS

- On the following 11 pages you will discover the details.

Mc ELROY CHART OF CODES AND SIGNALS

RESPECTFULLY DEDICATED
TO THE
RADISTES OF OUR ARMED FORCES AND MARITIME SERVICE

100 Anderson Street, Boston 4, Mass.
Boston, Massachusetts

INTERNATIONAL FLAG SIGNALS

INTERNATIONAL MORSE (CONTINENTAL CODE)

COMMERCIAL "Z" SIGNALS

AERONAUTICAL "O" SIGNALS

AMERICAN MORSE

THE McELROY METHOD FOR TRANSCRIPTION OF RADIO TELEGRAPH SIGNALS

ARABIC

TURKISH

W. S. GRAY AND V. S. HART PHONETIC ALPHABET

JAPANESE MORSE

GOVERNMENT PRESIDENTIAL

"U" SIGNALS

McELROY MANUFACTURING CORPORATION
82 BROOKLINE AVENUE, BOSTON, MASSACHUSETTS

INTERNATIONAL MORSE

(CONTINENTAL CODE)

LETTERS	OPTIONAL LETTERS	PUNCTUATIONS AND OTHER SIGNS
A --	ā ----	Period -----
B	á or ã -----	Comma -----
C	ch ----	Colon -----
D ---	é -----	Question mark -----
E .	ñ -----	
F	ö ----	Apostrophe -----
G ---	ü ----	Hyphen -----
H	FIGURES	
I --	1 -----	Fraction bar -----
J ----	2 -----	Brackets -----
K ---	3 -----	
L	4 -----	Double hyphen -----
M --	5 -----	
N --	6 -----	Underline -----
O ---	7 -----	Understood -----
P	8 -----	Error -----
Q ----	9 -----	End of message -----
R ---	0 -----	
S ...	FIGURES IN ROUTINE REPETITIONS	Invitation to transmit ---
T -	1 --	
U ---	2 ---	Wait -----
V	3 ----	End of work -----
W ---	4 -----	
X ----	5 -----	Starting signal -----
Y ----	6 -----	Separation signal -----
Z ----	7 ----	
	8 ---	*Semicolon -----
	9 --	
	0 -	*Quotation mark -----

Numerals and punctuation marks are the same in the codes for all languages.

*Not official but in general use.

AMERICAN MORSE

A	..	1	----	Parenthesis (	.....	--
B	----				)	.....
C	...	2	.....			...
D	---	3	.....	Quotation	----	--
E	.			End of		
F	---	4	.....	quotation	----	----
G	---					
H	....	5	---	Colon dash	---	----
I	..					
J	----	6	.....	Capitalized		
K	---	7	----	letter	..	----
L	—			Small letter	-----	
M	--	8	.....	Colon followed		
N	--	9	----	by quotation	---	----
O	..			Semicolon	...	..
P	.....	0	—	Paragraph	-----	
Q	----					
R	--			Period	-----	
S	...			Apostrophe	----	----
T	-			Comma	----	
U	---			Dollar	---	----
V	----			Hyphen	---	----
W	---			Cents	..	.
X	----			Question		
Y	...			mark	-----	
Z	...			Pound	—	----
				Sterling		
				Shilling	---	-
&	----			Exclamation		
				mark	----	
				Colon	---	..
				Percent	..	....

Punctuation composed by Walter P. Phillips in 1876. He also made a compilation of few letter abbreviations of about 2000 commonly used words. This "Phillips Code" is used by newspaper telegraphers.

THE McELROY METHOD FOR TRANSCRIPTION OF RADIO TELEGRAPH SIGNALS



Typists can learn to transcribe inked slip at high speed in 4 to 6 weeks.
Use G15FL set of practice tapes and associated equipment with this chart.



"Q" SIGNALS

(THE SIGNALS TAKE THE FORM OF ADVICES WHEN THE QUESTION MARK IS OMITTED)

Originally developed for ship radiotelegraph communications, they are now used in all radiotelegraph services.

QRA	What is the name of your station?	QRZ	Who is calling me?	QTF	Will you give me the position of my station according to the bearings taken by the direction-finding stations which you control?
QRB	How far approximately are you from my station?	QSA	What is the strength of my signals (1 to 5)?	QTG	Will you send your call sign for fifty seconds followed by a dash of ten seconds on kc/s (or m) in order that I may take your bearing?
QRC	What company (or State Administration) settles the accounts for your station?	QSB	Does the strength of my signals vary?	QTH	What is your position in latitude and longitude (or by any other way of showing it)?
QRD	Where are you bound and where are you from?	QSD	Is my keying correct; are my signals distinct?	QTI	What is your true course?
QRG	Will you tell me my exact frequency (wavelength) in kc/s (or m)?	QSG	Shall I send telegrams (or one telegram) at a time?	QTJ	What is your speed?
QRH	Does my frequency (wavelength) vary?	QSJ	What is the charge per word for including your internal telegraph charge?	QTM	Send radioelectric signals and submarine sound signals to enable me to fix my bearing and my distance.
QRI	Is my note good?	QSK	Shall I continue with the transmission of all my traffic, I can hear you through my signals?	QTO	Have you left dock (or port)?
QRJ	Do you receive me badly? Are my signals weak?	QSL	Can you give me acknowledgment of receipt?	QTP	Are you going to enter dock (or port)?
QRK	What is the readability of my signals (1 to 5)?	QSM	Shall I repeat the last telegram I sent you?	QTP	Are you going to enter dock (or port)?
QRL	Are you busy?	QSO	Can you communicate with direct (or through the medium of)?	QTR	What is the exact time?
QRM	Are you being interfered with?	QSP	Will you retransmit to free of charge?	QTU	What are the hours during which your station is open?
QRN	Are you troubled by atmospheric?	QSR	Has the distress call received from been cleared?	QUA	Have you news of (call sign of the mobile station)?
QRO	Shall I increase power?	QSU	Shall I send (or reply) on kc/s (or m) and/or on waves of type A1, A2, A3, or B?	QUB	Can you give me in this order, information concerning: visibility, height of clouds, ground wind for (place of observation)?
QRP	Shall I decrease power?	QSV	Shall I send a series of VVV?	QUC	What is the last message received by you from (call sign of the mobile station)?
QRQ	Shall I send faster?	QSW	Will you send on kc/s (or m) and/or on waves of type A1, A2, A3 or B?	QUD	Have you received the urgency signal sent by (call sign of the mobile station)?
QRS	Shall I send more slowly?	QSX	Will you listen for (call sign) on kc/s (or m)?	QUF	Have you received the distress signal sent by (call sign of the mobile station)?
QRT	Shall I stop sending?	QSY	Shall I change to transmission on kc/s (or m) without changing the type of wave? OR Shall I change to transmission on another wave?	QUG	Are you being forced to alight in the sea (or to land)?
QRU	Have you anything for me?	QSZ	Shall I send each word or group twice?	QUH	Will you indicate the present barometric pressure at sea level?
QRV	Are you ready?	QIA	Shall I cancel telegram No. as if it had not been sent?	QUJ*	Will you indicate the true course for me to follow, with no wind, to make for you?
QRW	Shall I tell that you are calling him on kc/s (or m)?	QTB	Do you agree with my number of words?	QUK	Can you tell me the condition of the sea observed at (place or co-ordinates)?
QRX	Shall I wait? When will you call me again?	QTC	How many telegrams have you to send?	QUL	Can you tell me the swell observed at (place or co-ordinates)?
QRY	What is my turn?	QTE*	What is my true bearing in relation to you? OR What is my true bearing in relation to (call sign)? OR What is the true bearing of (call sign) in relation to (call sign)?	QUM	Is the distress traffic ended?

*In certain aeronautical services "true course" and "true bearing" are called "geographic course" and "geographic bearing."

AERONAUTICAL "Q" SIGNALS

Used Especially in Airways Communications by Authority of the FCC.

QAA	At what time do you expect to arrive at	QBC	Can you transmit to me the meteorological observation at present made by you from the aircraft?
QAB	Are you making for	QBE	I am about to wind in my aerial.
QAC	Are you returning to	QBF	Are you flying in cloud?
QAD	At what time did you leave (place of departure)?	QBG	Are you flying above cloud?
QAE	Have you news of (call sign of the aircraft station)?	QBH	Are you flying below cloud?
QAF	At what time did you pass	QBI	The bad visibility regulations are in force.
QAG	Arrange your flight in order to arrive at (time) at (place). OR I am arranging my flight in order to arrive at (time) at (place).	QBJ	At what height is the upper limit of cloud?
QAH	What is your height?	QBM	Has sent any message for me?
QAI	Has any aircraft been signalled in my vicinity?	QBN	Are you flying between two layers of cloud?
QAJ	Shall I try to search for an aircraft in my vicinity (or by any other indication)? OR Shall I try to search for aircraft in my vicinity (or by any other indication)?	QBT	You are missing your dots.
QAK	Is another aircraft flying in my vicinity, involving a risk of collision? OR Is aircraft flying in my vicinity involving a risk of collision?	QBU	Are you sure of the accuracy of telegram
QAL	Are you going to land at	QBW	Did you receive the telegram sent at (time)?
QAM	Can you give me the latest meteorological weather report for (place of observation)?	QCA	You are causing delay by your slowness in answering.
QAN	Can you give me the latest meteorological report concerning surface wind for (place of observation)?	QCB	You are causing delay by answering out of your turn.
QAO	Can you give me the latest meteorological report concerning upper wind for (place of observation)?	QCG	Shall I stand guard for you on the frequency of kilocycles (wave length of metres)?
QAP	Shall I listen for you (or for) on kilocycles (or metres)?	QCM	There seems to be a defect in your transmission.
QAQ	Am I in the vicinity of a prohibited area or of prohibited area (name of the prohibited area)?	QCP	Your note is bad.
QAR	May I stop listening on the watch wave for minutes?	QCS	My reception on long waves has broken down.
QAS	You are flying over a prohibited area or over prohibited area (name of prohibited area).	QCT	My reception on short waves has broken down.
QAT	Shall I continue to send?	QCY	I am working on trailing aerial OR Work on trailing aerial.
QAX	Have you in your aircraft the following person for whom I have a waiting radiotelegram? (Here follows the designation of the person as it appears in the address of the radiotelegram: name and qualifications).	QDB	Have you sent telegram to?
QAZ	Are you flying in a thunderstorm?	QDC	Telegram has been sent by wire.
QBA	What is the visibility at (place)?	QDD	Telegram No. has been refused by as not in order. Please inform sender.
QBB	What is the height of the cloud base at (place)?	QDH	What is causing the present interference?
		QDK	Answer in the alphabetical order of the call signs.
		QDL	Do you intend to ask me for a series of bearings?
		QDM	What is the magnetic course to steer with no wind to make for you or for
		QDO	Can you have transmitted by station, on its working wave (or on the wave), its call sign followed by a prolonged dash for minutes, in order to permit me to use my aircraft D/F installation?
		QDR	What is my magnetic bearing in relation to you or to

(Complete code available on request)

COMMERCIAL "Z" SIGNALS

Signals take the form of advices when question mark is omitted. These signals are used on commercial radiotelegraph circuits throughout the world.

ZAL	Alter your wavelength.	ZTA	Transmit by auto.
ZHC	How are your receiving conditions?	ZBY	Break, go back yard. (Metre.)
ZAN	We can receive absolutely nothing.	ZBN	Break and go ahead with new slip.
ZSU	Your signals are unreadable.	ZPR	Rerun slip at present running.
ZWR	Your signals weak but readable.	ZRL	Rerun slip before one now running.
ZSR	Your signals strong readable.	ZPP	Punch plain only.
ZGF	.....signals good for.....w.p.m.	ZFB	Signals are fading badly.
ZGS	Your signals getting stronger.	ZFA	Failing auto.
ZGW	Your signals getting weaker.	ZRA	Reversed auto tape.
ZVS	Signals varying in intensity.	ZYS	What is your speed of transmission?
ZSH	Static heavy here.	ZSV	Your speed varying.
ZLS	We are suffering from a lightning storm.	ZBS	Your signals blurring.
ZWC	Wipers or clicks here.	ZDH	Your dots are too heavy (long), adjust lighter.
ZVP	Send V's please.	ZDL	Your dots are too light (short), adjust heavier.
ZWO	Send words once.	ZDM	Your dots missing.
ZWT	Send words twice.	ZDV	Your dots varying length, please remedy.
ZCT	Send code twice.	ZFS	Signals are fading slightly.
ZPO	Send plain once.	ZTH	Transmit by hand.
ZPT	Send plain twice.	ZHS	Send high speed auto.....w.p.m.
ZCD	Your collation is different.	ZSO	Transmit slips once.
ZCO	Your collation omitted.	ZST	Transmit slips twice.
ZSF	Send faster.	ZOR	Transmit revs continuously.
ZSS	Send slower.	ZLB	Give long breaks, please.
ZRO	Are you receiving ok?	ZUB	We have been unable to break you.
ZOK	We are receiving ok.	ZNB	We do not get your breaks, we send twice.
ZIR	Your transmitter has strong idle radiation.	ZLD	We are getting long dash from you.
ZRC	Can you receive code?	ZAP	Acknowledge, please.
ZNG	Receiving conditions no good for code.	ZMQ	Stand bi for
ZNN	All clear of traffic.	ZMO	Stand bi moment.
ZHY	We are holding your	ZKQ	Say when ready to resume.
ZCS	Cease sending.	ZOH	What traffic have you on hand?
ZMP	Mispunch or perforator failures.	ZVF	Signals varying in frequency.
ZCW	Are you in direct communication with	ZFF	Please observe and furnish frame code reports on (call-letters and frequency) kilocycles.
ZHA	How are your conditions for auto reception?	ZOA	We have checked (transmitter call-letters) Signals are radiating on air ok.
ZUA	Our conditions unsuitable for undulator or automatic recording.	ZCP	Local receiving conditions poor; please increase to maximum.



U. S. ARMY AND U. S. NAVY PHONETIC ALPHABET

Able (Affirm)*	How (Hypo)*	Oboe (Option)*	Victor
Baker	Item (Inter)*	Pater (Prop)*	William
Charlie (Cast)*	Jig	Queen	Xray
Dog	King	Roger	Yoke
Easy	Love	Sugar (Sail)*	Zebra (Zed)*
Fox	Mike	Tare	
George	Nan (Negat)*	Uncle (Unit)*	

* Used as equivalents in navy procedure.

Zero is always transcribed thus \emptyset to avoid confusion with letter O.

POSTAL TELEGRAPH — WESTERN UNION PHONETIC ALPHABET

Adam	Henry	Ocean	Union
Boston	Ida	Peter	Victor
Chicago	John	Queen	William
Denver	King	Robert	Xray
Edward	Lincoln	Sugar	Young
Frank	Mary	Thomas	Zero
George	New York		

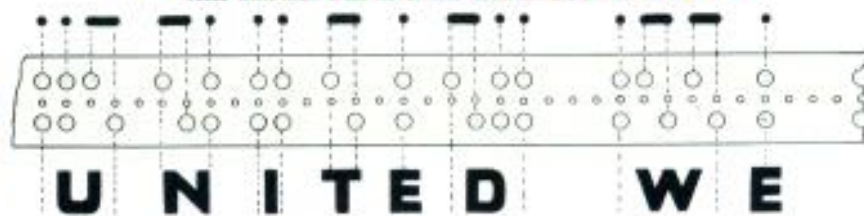
JAPANESE MORSE

(SOMETIMES REFERRED TO AS KATA KANA RADIO CODE)

A	KA	SA	TA	NA	HA	MA	YA	RA	WA
ア	カ	サ	タ	ナ	ハ	マ	ヤ	ラ	ワ
I	KI	SI	TI	NI	HI	MI	I	RI	(W)I
イ	キ	シ	チ	ニ	ヒ	ミ	イ	リ	ヰ
U	KU	SU	TU	NU	HU	MU	YU	RU	U
ウ	ク	ス	ツ	ヌ	フ	ム	ユ	ル	ウ
E	KE	SE	TE	NE	HE	ME	E	RE	(W)E
エ	ケ	セ	テ	ネ	ヘ	メ	エ	レ	ヱ
O	KO	SO	TO	NO	HO	MO	YO	RO	WO
オ	コ	ソ	ト	ノ	ホ	モ	ヨ	ロ	ヲ
N	NIGORI	HAN-NIGORI	HYPHEN	PERIOD	BRACKETS	QUOTES	PARAGRAPH	QUESTION MARK	
ン	"	。	—	.	()	"	¶	?	

WHEATSTONE PERFORATED TAPE

(USED WITH HIGH SPEED AUTOMATIC TRANSMITTERS OF XTR TYPE)



GREEK

GREEK LETTER	MORSE SYMBOL	
Α	--	Alpha
Β	----	Beta
Γ	---	Gamma
Δ	---	Delta
Ε	.	Epsilon
Ζ	----	Zeta
Η	----	Eta
Θ	----	Theta
Ι	--	Iota
Κ	---	Kappa
Λ	----	Lambda
Μ	--	Mu
Ν	--	Nu
Ξ	----	Xi
Ο	---	Omicron
Π	----	Pi
Ρ	---	Rho
Σ	---	Sigma
Τ	-	Tau
Υ	----	Ypsilon
Φ	----	Phi
Χ	----	Chi
Ψ	----	Psi
Ω	---	Omega
ΗΥ	----	Eta Ypsilon
ΥΙ	----	Ypsilon Iota
ΟΥ	---	Omicron Ypsilon
ΑΙ	----	Alpha Iota
ΑΥ	----	Alpha Ypsilon
ΕΥ	----	Epsilon Ypsilon
ΟΙ	----	Omicron Iota

RUSSIAN

RUSSIAN LETTER	MORSE SYMBOL	
А	--	А
Б	----	В
В	---	У
Г	---	Г
Д	---	Д
Е,Э	.	Е
Ж	----	Ж
З	----	З
И	--	И
Й	----	Й
К	---	К
Л	----	Л
М	--	М
Н	--	Н
О	---	О
П	----	Р
Р	---	Р
С	---	С
Т	-	Т
У	---	У
Ф	----	Ф
Х	----	Х
Ц	----	ТС
Ч	----	СН
Ш	----	Ш
Щ	----	ШСН
Ъ,ь	----	Mute
Ы	----	И
Ю	----	УУ
Я	----	УА

INTERNATIONAL FLAG SIGNALS

















A 	N 
Undergoing speed trial	No (Negative)
B 	O 
Taking on or discharging explosives	Man overboard
C 	P 
Yes (Affirmative)	About to sail AT SEA: Your lights are out
D 	Q 
Keep clear, I am maneuvering with difficulty	Vessel healthy, I request free pratique
E 	R 
Directing course to starboard	Way is off my ship; you may feel your way past
F 	S 
Disabled, communicate with me	Going full speed astern
G 	T 
I require a pilot	Do not pass ahead of me
H 	U 
I have a pilot on board	You are standing into danger
I 	V 
Directing course to port	I require assistance
J 	W 
Sending a message by semaphore	I require medical assistance
K 	X 
Stop your vessel instantly	Stop your intentions and watch for my signals
L 	Y 
Stop, something important to communicate	I am carrying mails
M 	Z 
I have a doctor on board	Used to address or call shore stations

Code Pennant

1st Repeat
2nd Repeat
3rd Repeat

1 
2 
3 
4 
5 
6 
7 
8 
9 
0 

SEMAPHORE CODE

(Also Alphabetical Sign)

ARABIC			TURKISH	
ARABIC LETTER	MORSE SYMBOL			
ا	--	Alif	A	--
ب	----	Ba	B	----
ت	-	Ta	C	----
ث	----	Tha	Ç	-----
ج	----	Jeem	D	---
ح	----	Ha	E	.
خ	---	Kha	F	----
د	---	Dal	G	---
ذ	----	Dhal	H	----
ر	---	Ra	I	--
ز	----	Zay	J	----
س	---	Seen	K	---
ش	----	Sheen	L	----
ص	----	Sad	M	--
ض	----	Dad	N	--
ط	---	Ta	O	---
ظ	----	Za	Ö	----
ع	----	Ain	P	----
غ	---	Ghain	R	---
ف	----	Fa	S	---
ق	----	Qaf	Ş	----
ك	---	Kaf	T	-
ل	----	Lam	U	---
م	--	Meem	Ü	----
ن	--	Noon	V	----
ه	-----	He	Y	----
و	---	Waw	Z	----
ي	-----	Lam-Alif		
يا	--	Ya		