



**2E0UMR**

**Communication Reference Book**

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# Phonetic Alphabets

Alpha Bravo Charlie Delta Eco  
Foxtrot Golf Hotel India Juliet  
Kilo Lime Mike November Oscar  
Papa Quebec Romeo Seara Tango  
Uniform Victor Whiskey Xray  
Yanke Zulu

# Morse Code

A	B	C	D	E
. -	- . . .	- . - .	- . .	.
F	G	H	I	J
. . - .	- - .	. . . .	. .	. - - -
L	M	N	O	P
. - . .	- -	- .	- - -	. - - .
Q	R	S	T	U
- - . -	. - .	. . .	-	. . -
V	W	X	Y	Z
. . . -	. . -	- . . -	- . . -	- . . .
1	2	3	4	5
. - - - -	. . - - -	. . . - -	. . . . -	. . . . .
6	7	8	9	0
- . . . .	- - . . .	- - - . .	- - - . .	- - - - -

# Mobile Radio Operation Checklist

HF/UV Transceiver

Power source & cables

Related antenna and cables

Logbook

Safety signs

Tools

First aid kit

Additional radios

# Notes

# RST Report reference

## Readability

1. Unreadable
2. Barely readable, occasional words distinguishable
3. Readable with considerable effort
4. Readable with practically no effort
5. Perfectly readable

## Strength

1. Faint—signals barely perceptible
2. Very weak signals
3. Weak signals
4. Fair signals
5. Fairly good signals
6. Good signals
7. Moderately strong signals
8. Strong signals
9. Extremely strong signals

# Q Codes

**QRG** Your exact frequency (or that of \_\_\_\_\_) is \_\_\_\_\_kHz.

Will you tell me my exact frequency (or that of \_\_\_\_\_)?

**QRL** I am busy (or I am busy with \_\_\_\_\_). Are you busy?

Usually used to see if a frequency is busy.

**QRM** Your transmission is being interfered with \_\_\_\_\_

(1. Nil; 2. Slightly; 3. Moderately; 4. Severely; 5. Extremely.)

Is my transmission being interfered with?

**QRN** I am troubled by static \_\_\_\_\_. (1 to 5 as under QRM.)

Are you troubled by static?

**QRO** Increase power. Shall I increase power?

**QRP** Decrease power. Shall I decrease power?

**QRQ** Send faster (\_\_\_\_\_wpm). Shall I send faster?

QRS Send more slowly (\_\_\_\_\_wpm). Shall I send more slowly?

**QRT** Stop sending. Shall I stop sending?

**QRU** I have nothing for you. Have you anything for me?

**QRV** I am ready. Are you ready?

**QRX** I will call you again at \_\_\_\_\_hours (on \_\_\_\_\_kHz).

# Q Codes

When will you call me again? Minutes are usually implied rather than hours.

**QRZ** You are being called by \_\_\_\_\_ (on \_\_\_\_\_kHz).

Who is calling me?

**QSB** Your signals are fading. Are my signals fading?

**QSK** I can hear you between signals; break in on my transmission.

Can you hear me between your signals and if so can I break in on your transmission?

**QSL** I am acknowledging receipt.

Can you acknowledge receipt (of a message or transmission)?

**QSO** I can communicate with \_\_\_\_\_ direct (or relay through \_\_\_\_\_).

Can you communicate with \_\_\_\_\_ direct or by relay?

**QSP** I will relay to \_\_\_\_\_. Will you relay to \_\_\_\_\_?

**QST** General call preceding a message addressed to all amateurs.

**QSX** I am listening to \_\_\_\_\_ on \_\_\_\_\_kHz. Will you listen to \_\_\_\_\_ on \_\_\_\_\_kHz?

**QSY** Change to transmission on another frequency (or on \_\_\_\_\_kHz).

Shall I change to transmission on another frequency (or on \_\_\_\_\_kHz)?

**QTC** I have \_\_\_\_\_messages for you (or for \_\_\_\_\_).



# Q Codes

How many messages have you to send?

**QTH** My location is \_\_\_\_\_. What is your location?

**QTR** The time is \_\_\_\_\_. What is the correct time?

## Vertical $\frac{1}{4}$ Antenna Lengths

10M band- 2.547 Metre

6M Band- 1.426 Metre

2M Band- 49.2 CM

70CM Band- 16.51CM

## Halfwave Dipole/Inverted V (Total wire length)

12M Band- 5.728M / 5.496M

15M Band- 6.792M / 6.516M

17M Band- 7.924M / 7.603M

20M Band- 10.189M / 9.775M

30M Band- 14.264M / 13.685M

40M Band- 20.378M / 19.550M

Formula "468 / frequency (MHz) =  
length of wire in feet."

# Emergency Communication Abbreviations/Prowords

**ACKNOWLEDGE** Let me know that you have received and understood this message.

**AFFIRM** Yes.

**ALL AFTER/BEFORE** Indicates part of a message

**APPROVED** Permission is granted for the proposed action.

**BREAK** Indicates the separation between messages.

**CANCEL** Annul the previously transmitted instruction.

**CLOSE DOWN** Cease operation of the radio station.

**CONFIRM** Did you correctly receive this message?

**CORRECT** That is correct

**CORRECTION** An error has been made in MY transmission. The correct version is...

**DECIMAL** Decimal Point.

# Emergency Communication Abbreviations/Prowords

**DIRECT CONTACT** Contact without repeater.

**DISREGARD** Consider that transmission as not sent.

**EMERGENCY** I have a message of life and death urgency.

**I SAY AGAIN** I Repeat my message again.

**IMMEDIATE** I have a message of life and death urgency.

**MESSAGE** I have a message for you.

**MESSAGE ENDS** Entire text of the message have been sent.

**MISTAKE** Error in the transmission.

**NEGATIVE** No.

**OVER** My transmission is ended. Expecting response.

**OUT** My Transmission ended, not expecting response.

**PASS YOUR MESSAGE** Procced with your message.

# Emergency Communication Abbreviations/Prowords

**PRIORITY** I need to interrupt with a PRIORITY message.

**RADIO CHECK** Report the readability of my transmission.

**READ BACK** Repeat your message.

**RELEVANT** I have a message relevant to the current exchange of transmissions.

**REPORT** Pass requested information.

**REQUEST** I wish to take certain action.

**ROGER** I have received and understand your message.

**ROGER SO FAR** I have received the message so far.

**SAY AGAIN** Repeat all.

**SEND** Proceed with your message.

**SITREP** Situation Report.

**STAND BY** Wait I will call you.

**TALK-THROUGH** Contact via repeater.

# Emergency Communication Abbreviations/Prowords

**WAIT** Do not transmit until I call you.

**WAIT ONE** Do not transmit until I call you in one minute.

**WILCO** Will comply with the instructions.

**YES-YES** Yes.

## Emergency Message Category

**Routine-** Normal message

**Priority-** Urgent message

**Immediate-** Extremely urgent message

**Emergency-** Life at risk message

# Emergency Phone numbers

999 or 112 from non-UK number

Ambulance/Fire/Police/Coast guard/SAR

**101**

Non-Emergency Police.

**111**

Non-Emergency NHS

**0800 111 999**

National Gas Emergency

# Emergency Comms Frequencies

7.110 MHz LSB Global

14.300 MHz USB Global

18.160 MHz USB Global

21.360 MHz USB Global

50.210MHz NFM UK

121.500 MHz AM Aviation

144.260 MHz USB UK

144.625-144.775 MHz NFM UK

156.800 MHz FM Marine Ch 16

433.700-433.775 MHz FM 25K UK

432.7750 EMG 1.6MHz TTU

430.800 EMG 7.6Mhz TTU



## UK 70 cm Band

430.800 EMG 7.6Mhz TTUu

432.00-432.0250 Moonbounce

432.200 SSB

432.500 NB SSTV

432.700 FAX

432.7750 EMG 1.6MHz TTUu

432.400 Reg1 SSTV

433.400-433.5750 FM 25K spacing

433.500 calling

439.9875 POCSAG Pager

# 70CM Simplex Frequencies

433.400 MHz U272

433.4250 MHz U274

433.4500 MHz U276

433.4750 MHz U278

433.500 MHz U280 Calling

433.5250 MHz U282

433.550 MHz U284

433.575 MHz U288

# UK 2M Band

144.050 CW

144.110-144.150 PSK31

144.150-144.400 SSB 144.300 SSB  
calling

144.500 SSTV/FAX

144.775-144.794 EMG

144.600 RTTY

144.800 APRS

144.9250 TCP/IP

145.200-145.575 FM 25k spacing  
145.500 calling

145.5250 GB2RS News

145.800 ISS SSTV Downlink

## 2M Simplex Frequencies

145.200	MHz	S8
145.225	MHz	S9
145.255	MHz	S10
145.275	MHz	S11
145.300	MHz	S12
145.325	MHz	S13
145.355	MHz	S14
145.375	MHz	S15
145.400	MHz	S16
145.425	MHz	S17
145.455	MHz	S18
145.475	MHz	S19
145.500	MHz	S20 Calling
145.425	MHz	S21
145.455	MHz	S22
145.475	MHz	S23

# UK 6M Band

50.000-50.100 CW

50.090 CW COA

50.100-50.500 NB Mode

50.110 DX Call

50.150 International COA

50.200-50.400 SSB 2.7KHz

50.250 PSK31

50.255 JT44

50.260-50.280 PSK441

50.270 FSK441 Call

50.500-52.000 All Mode

50.510 SSTV (AFSK)

## **UK 10M Band**

28.00-28.070 CW

28.055 QRS (Slow CW) COA

28.060 QRP COA

28.300-29.000 QRP SSB 28.360  
COA

29.520-29.700 FM 10Khz

## **UK 12M Band**

24.890-24.915 CW

24.906 QRS COA

24.931-24.990 SSB

## **UK 15M Band**

21.000-21.070 CW

21.055 QRS

21.060 QRP

21.340 Image COA

21.151-21.450 SSB

21.360 Global EMG COA

## **UK 17M Band**

18.068-18.095 CW

18.095-18.105 NB

18.111-18.168 SSB

18.160 Global EMG COA

## UK 20M Band

14.060-14.070 CW

14.060 QRP

14.101-14.112 Data

14.112-14.125 All mode

14.125-14.300 SSB

14.230 Image COA

14.285 QRP COA

14.300-14.350 All mode

14.300 Global EMG



## **UK 30M Band QRP**

10.100-10.140 CW

10.140.150 NB

## **UK 40M Band**

7.000-7.035 CQ QRP

7.035-7.038 NB

7.040-7.040 Data

7.043 Image COA

7.043-7.200 All mode

7.110 Global EMG

# FT8 COA Frequencies

70CM Band- 432.065 MHz

2M Band- 144.174 MHz

6M Band- 50.323 MHz

10M Band- 28.074 MHz

15M Band- 21.074 MHz

17M Band- 18.100 MHz

20M Band- 14.071 MHz

30M Band- 10.132 MHz

40M Band- 7.074 MHz

# Appendix

**COA** Centre of activity.

**SSB** Single Side Band.

**LSB** Lower Side Band (used below 10MHz).

**USB** Upper Side Band (used above 10MHz).

**TTru** Talk Through (via repeater).

**EMG** Emergency.

**NB** Narrow Band.

**CW** continuous Wave/Morse Code.

# Sources

<https://www.raynet-uk.net/manual.asp>

<https://rsqb.org/main/operating/band-plans/>

<https://www.arrl.org/files/file/Get%20on%20the%20Air/Comm%20w%20Other%20Hams-Q%20Signals.pdf>