



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 TTru

430.800 EMG 7.6Mhz TTru

UK 70 cm Band

430.800 EMG 7.6Mhz TTru

432.00-432.0250 Moonbounce

432.200 SSB

432.500 NB SSTV

432.700 FAX

432.7750 EMG 1.6MHz TTru

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/.les/.le/Get%20on%20the%20Air/Comm%20w%20Other%20Hams-Q%20Signals.pdf>