

## SECTION F

ENCODECOMMUNICATIONS EQUIPMENT AND CIRCUITS  
ADJUSTING AND TESTING

KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
ACCURACY	What is the printing accuracy of my signals (or those of ...)?	The printing accuracy of your signals (or those of...) is... (1. Totally corrupt; 2. Very corrupt; 3. Partly corrupt rendering traffic unacceptable; 4. Occasionally corrupt but traffic acceptable; 5. Perfect - no corruption).	ZBZ
AERIAL		I am about to wind in my aerial.	QBE
		I am working on trailing aerial. or Work on trailing aerial.	QCY
		I am working (or am going to work) on a fixed aerial. or Work on a fixed aerial.	QFX
AUTOMATIC	How do you receive my automatic transmissions?	Your automatic transmissions are...(1. Good; 2. Fair; 3. Unreadable.).	ZHN
	What is your speed of automatic transmission in...(1. Revolutions per minute; 2. Words per minute; 3. Bauds.)	My speed of automatic transmission in...(1. Revolutions per minute; 2. Words per minute; 3. Bauds.) is...	ZHO
	What is preventing automatic reception?	Automatic reception is prevented by...	ZHP
	Is my speed of automatic transmission correct?	Your speed of automatic transmission is...(1. Fast; 2. Slow; 3. Erratic; 4. Correct).	ZHR
	Are you ready for automatic operation?	I am ready for automatic operation. Send at... words per minute.	QRR

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KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
BIAS	What is my bias distortion?	Your bias distortion is... (1. Excessive; 2. ...per- cent (marking); 3. ...per- cent (spacing); 4. ...per- cent (total distortion).	ZTN
CALL	Shall I repeat the call on the calling frequency?	Repeat your call on the calling frequency; did not hear you (or have inter- ference).	QSR
CARRIER		Your carrier is... (1. Over-suppressed; 2. Under-suppressed).	ZRS
CASE	Am I transmitting... 1) in letters? 2) in figures?	You are transmitting... 1) in letters. 2) in figures.	QJD
		You are transmitting in upper case.	ZBG
CHANNEL	Shall I revert to single channel working?	Revert to single channel working.	ZRK
	Can you read me on... (1. Channel A...; 2. Channel B...; 3. Channel (s)...; 4. All channels)?	I can read you on...(1. Channel A; 2. Channel B; 3. Channel(s); 4. All channels; 5. No channels).	ZRO
		Transfer signal on channel ...to channel... (Should only be used when order originates from a third working channel. See ZRV for use between directly connected working channels).	ZRP
CHARACTER	Is my character forma- tion correct?	Transfer signal to channel..	ZRV
		Your character formation is... (1. Correct; 2. De- fective in the start ele- ment; 3. Defective in the 1st unit; 4. Defective in the 2nd unit; 5. Defective in the third unit; 6. De- fective in the 4th unit; 7. Defective in the 5th unit; 8. Defective in the stop element).	ZTO

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KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
CHECK	Will you check your... 1) transmitter distributor? 2) auto-head? 3) perforator? 4) reperforator? 5) printer? 6) printer motor? 7) keyboard? 8) antenna system?	I will check my... 1) transmitter distributor. 2) auto-head. 3) perforator. 4) reperforator. 5) printer. 6) printer motor. 7) keyboard. 8) antenna system.	QJC
	Will you check your...?	I will check my...	ZRJ
CODE	Are you working on the correct code? Note: This meaning applies only to frequency shift diplex.	I am working on the correct code. Note: This meaning applies only to frequency shift diplex.	ZRL
CONNECT	Are you (or is...) connected to...?	I am (or...is) connected to...	ZTK
DISCONNECT	Are you (or is...) about to disconnect?	I am (or...is) about to disconnect.	ZTL
EQUIPMENT		Broadcast transmitter indicated is about to be taken off for...minutes (or until...).	ZJT
		...(1. Radio; 2. Visual; 3. Landline; 4. Teletypewriter (teleprinter); 5. Telephone; 6. Automatic; 7. Facsimile; 8. Shore telephone; 9. Shore teleprinter; 10. Radio teletypewriter).	ZTA

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KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
EQUIPMENT (Cont'd)		...(1. Transmitter-distributor; 2. Auto-head; 3. Perforator; 4. Reperforator; 5. Printer; 6. Undulator; 7. Keyboard; 8. Frequency shift keyer; 9. Multiplexing carrier base; 10. On line crypto device.	ZTB
		...(class of emission/type of transmission as indicated in Chapter 6).	ZTG
		...(1. Receiver; 2. Transmitter; 3. Power supply; 4. Antenna system; 5. Radio direction finder).	ZTI
FACILITIES	Is the...radio facility at... (place) in operation?	The...radio facility at... (place) is in operation (or will be in operation in...hours). or Please have the...radio facility at...(place) put in operation.	QFS
	Is the...radio facility still required?	The...radio facility is still required.	QLV
		Facility indicated cannot be operated at present.	ZLN
	Is (are) facility (ies)...operative at your station (or at...)?	The following...facility (ies) is (are) operative at this station (or at ...). (1. Homing beacon; 2. Radar beacon; 3. Revolving and/or Flashing beacon; 4. Radio beacon; 5. Instrument landing system; 6. Ground control approach; 7. Approach control; 8. Tower transmitter (state which type LF, MF, VHF, or UHF); 9. MF Direction finder; 10. VHF Direction finder; 11. UHF Direction finder; 12. Runway lights; 13. Sandra lights; 14. Radio track guide; 15. Radio range).	ZLO

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KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
FACSIMILE		I have pictures of the following types to transmit...(1. Photographs; 2. Weather maps; 3. Blueprints; 4. Printed matter; 5. Test).	ZLA
	What drum rotation speed shall I use?	Transmit at...revolutions per minute. (1. 30; 2. 45; 3. 50; 4. 60; 5. 90; 6. 100.)	ZLB
		Your transmission...(1. Shows objectional modulation; 2. Suitable for communication but not for picture; 3. Shows caption too close to edge of picture; 4. Shows buckled print; 5. Shows fork drift; 6. Picture shows too much contrast; 7. Picture shows insufficient contrast; 8. Picture shows cross-over),	ZLC
		I am unable to...(1. Synchronize with you; 2. Transmit pictures; 3. Copy pictures).	ZLD
		Send...(1. Fence; 2. White; 3. Black; 4. Picture; 5. Synchronize; 6. Fence swinging black until I stop you; 7. Fence swinging white until I stop you).	ZLE
		...(1. Inverter; 2. Converter; 3. 96-line 12 x 18 transceiver; 4. 100-line transceiver; 5. 300-line transceiver).	ZLF
	Shall I transmit... (1. Negative; 2. Positive)?	Transmit...(1. Negative; 2. Positive).	ZLG
	Will you transmit map(s)...(...area ...time...type).	I am going to transmit map(s)...(...area...time ....type).	ZLH
	Reverse material on drum and rerun until I break you.	ZLI	

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KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
FACSIMILE (Cont'd)	What size lettering shall I use?	Use...(1. Standard telegraphic typewriter; 2. Jumbo typewriter if available; 3. Hand lettering at least 3/16 of an inch high.)	ZLJ
FAULTY	...(1. Does my... appear to be faulty; 2. Is your...faulty).	...(1. Your...appears to be faulty; 2. My...is faulty).	ZTC
FREQUENCY		Shift to transmit and receive on...kHz (or MHz); if communication is not established within 5 minutes, revert to present frequency.	QMH
	Will you tell me my exact frequency (or that of...)?	Your exact frequency (or that of...) is... kHz (or MHz).	QRG
	Does my frequency vary?	Your frequency varies.	QRH
	What working frequency will you use?	I will use the working frequency...kHz (normally only the last three figures of the frequency need be given).	QSS
	Shall I change to transmission on another frequency?	Change to transmission on another frequency (or on...kHz (or MHz)).	QSY
	Will you send your call sign for tuning purposes or so that your frequency can be measured now (or at... hours) on...kHz (or MHz)?	I will send my call sign for tuning purposes or so that my frequency may be measured now (or at... hours) on...kHz (or MHz).	QTS
	Shall I decrease frequency very slightly (or...kHz) to clear interference?	Decrease frequency very slightly (or...kHz) to clear interference.	ZHA

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KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
FREQUENCY (Cont'd)	Shall I increase frequency very slightly (or...kHz) to clear interference?	Increase frequency very slightly (or...kHz) to clear interference.	ZHB
	How does my frequency check?	Your frequency is... (1. Correct; 2. Slightly (or...hertz (or kHz)) high; 3. Slightly (or ...hertz (or kHz)) low; 4. Stable on steady mark; 5. Stable on steady space; 6. Unstable; 7. Erratic).	ZRA
		Check your (or...'s) frequency on this circuit (or on...kHz (or MHz)).	ZRB
	What is the frequency of the...radio facility now in operation?	The frequency of the... radio facility now in operation is...	ZRD
	On what frequency do you hear me best?	I hear you best on...kHz (or MHz).	ZRE
	Will you send tuning signal on your present frequency (or on kHz (or MHz)) for 1 minute, or until AS is given?	Am about to send tuning signal on my present frequency (or on...kHz (or MHz)).	ZRF
	When will a change of frequency (to...kHz (or MHz)) be necessary?	A change in frequency (to...kHz (or MHz)) will be necessary at approximately...	ZRG
	Are my tone frequencies correct?	Your tone for...(1. Marking and spacing are high; 2. Marking and spacing are low; 3. Marking and spacing are correct).	ZRU
FREQUENCY SHIFT	Is my frequency shift... 1) too wide? 2) too narrow? 3) correct?	Your frequency shift is... 1) too wide. 2) too narrow (by...hertz). 3) correct.	QJE
	Is my frequency shift correct?	Your frequency shift is ... (1. Too wide; 2. Too narrow; 3. Not linear; 4. Correct) (by...hertz).	ZRH

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KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
LINE	Will you...(1. disconnect your equipment from line and carry out local test, reconnecting to line in...minutes; 2. connect your transmit line to your receive line to enable me to carry out a loop test for...minutes)?	I will...(1. disconnect (or I am disconnecting) my equipment from line and carry (or to carry) out local test reconnecting to line in...minutes; 2. connect my transmit line to my receive line to enable you to carry out a loop test for... minutes).	ZTR
	Is the line satisfactory?	The line is...(1. satisfactory; 2. unsatisfactory).	ZTS
LINES	What is (are) the magnetic line(s) of shoot of the... (facility)?	The magnetic line(s) of shoot of the...(facility) is (are)...degrees.	ZLP
LISTEN		Please listen for me on...kHz (or MHz) and transmit to me on... kHz (or MHz).	ZHQ
MARK/SPACE	Is my... 1) tape ) 2) mark and space ) reversed?	Your... 1) tape ) 2) mark and space ) reversed.	QJA
	Will you transmit a continuous... 1) mark? 2) space?	I am transmitting a continuous... 1) mark. 2) space.	QJI
	Are you receiving... 1) a continuous mark? 2) a continuous space? 3) a mark bias? 4) a space bias?	I am receiving... 1) a continuous mark. 2) a continuous space. 3) a mark bias. 4) a space bias.	QJK
		You are transmitting a continuous...(1. Mark; 2. Space).	ZBC



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KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
METHOD	<p>Will you use...</p> <ol style="list-style-type: none"> <li>1) radio?</li> <li>2) cable?</li> <li>3) telegraph?</li> <li>4) teletypewriter?</li> <li>5) telephone?</li> <li>6) receiver?</li> <li>7) transmitter?</li> <li>8) reperforator?</li> </ol>	<p>I will use...</p> <ol style="list-style-type: none"> <li>1) radio.</li> <li>2) cable.</li> <li>3) telegraph.</li> <li>4) teletypewriter.</li> <li>5) telephone.</li> <li>6) receiver.</li> <li>7) transmitter.</li> <li>8) reperforator.</li> </ol> <p>...(class of omission/ type of transmission as indicated in Chapter 6).</p>	<p>QJB</p> <p>ZTG</p>
MODULATION	<p>What is the duration of your modulation cycle?</p>	<p>The duration of my modulation cycle is...</p> <p><u>50 Baud Equipment</u></p> <ol style="list-style-type: none"> <li>1. 148 milliseconds (7.42 units) fast.</li> <li>2. 150 milliseconds (7.5 units) correct.</li> <li>3. 152 milliseconds (7.6 units) slow.</li> <li>4. ...erratic per character.</li> </ol> <p><u>45.5 Baud Equipment</u></p> <ol style="list-style-type: none"> <li>1. 161 milliseconds (7.35 units) fast.</li> <li>2. 163 milliseconds (7.42 units) correct.</li> <li>3. 165 milliseconds (7.5 units) slow.</li> <li>4. ...erratic per character.</li> </ol>	<p>ZTP</p>
MONITOR	<p>Will you monitor... station and report regarding range, quality, etc.?</p>	<p>My signal as checked by monitor...is satisfactory</p> <p>...</p> <ol style="list-style-type: none"> <li>1) locally.</li> <li>2) as radiated.</li> </ol> <p>I have monitored... station and report (briefly) as follows...</p>	<p>QJF</p> <p>QLB</p>
PATCH	<p>Will you patch me through to...(via you or...)?</p>	<p>I am about to patch you through to...(via)</p>	<p>ZAF</p>

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KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
POWER	Shall I increase transmitter power?	Increase transmitter power.	QRO
	Shall I decrease transmitter power?	Decrease transmitter power.	QRP
RADIATION		Maximum power is now being radiated.	ZPE
		Your transmitter has strong radiation while idling.	ZPB
		Radiate full unmodulated power for...minutes.	ZRT
REPAIRS	Are repairs completed?	Repairs completed.	ZTF
SATELLITE		Satellite(s) is/are pre-empted from .....Z to .....Z	ZCA
		Change to double-hop working using satellites..... West and .....East now (or at .....hours)	ZCB
		Establish.....on access... channel (A/B) 1. 300 db Emergency patch. 2. Phase-reverse-keying.	ZCC
		Weight your access to ..... (call sign) by .....db.	ZCD
		Access satellite .....now (or at..... hours) with.... 1. Spread Spectrum Modulation (normal allocation). 2. Spread Spectrum Modulator changed to access... 3. Spread Spectrum Demodulator changed to access ..... 4. Frequency modulation. 5. Phase Shift Keying Modulation.	ZCE
	Remove access...now (or at .... hours) 1. Spread Spectrum Modulation (1 - 40) 2. Frequency Modulation. 3. Phase-reverse-keying. 4. Phase Shift Keying Modulation.	ZCF	

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KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
SATELLITE (Cont'd)	What is your frequency modulation deviation?	My frequency modulation is .....	ZCG
	What is your tracking mode?	My tracking mode is..... 1. Autotrack. 2. Manual tracking. 3. Hand barring.	ZCH
	What is your .....? 1. Total output power. 2. Quality meter reading. 3. Number of accesses. 4. Frequency modulation access power.	My 1 is .....watts 2 is .....% 3 ..... accesses. 4 ..... watts.	ZCI
	Are you experiencing equipment trouble?	I am experiencing trouble with my ..... 1. Spread Spectrum Modulator. 2. Frequency division multiplex equipment. 3. Line modem. 4. Time division multiplex equipment. 5. Switching or patching. 6. Servo system. 7. Transmitter 8. Receiver. 9. Parametric amplifier. 10. Phase Shift Keying Modulator.	ZCJ
	Shall I loop my .....? 1. Spread Spectrum Modulator channel (A/B) 2. Line modem 3. Time division multiplex equipment. 4. Frequency division multiplex equipment.	Loop your ..... 1. Spread Spectrum Modulator channel..... 2. Line modem. 3. Time division multiplex equipment. 4. Frequency division multiplex equipment.	ZCK
	Have you checked speed setting of all equipment on.....(channel/circuit)	I have checked speed setting on.....(channel/circuit).	ZCL
	May I carry out.....on satellite.....? 1. Spread Spectrum Modulation back-to-back check. 2. Range measurement. 3. Power Balance.	Carry out.....on satellite... 1. Spread Spectrum Modulation back-to-back check. 2. Range measurement 3. Power Balance.	ZCM

## ENCODE

KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
SATELLITE (Cont'd)	Are you ready to synchronize Spread Spectrum Access?	I am ready to synchronize Spread Spectrum Access....	ZCN
		On your FM/FDM Access.....	ZCO
		1. Suppress telegraph channel ..... (1 - 9)	
		2. Open telegraph channel .....(1 - 9)	
		Change (total) radiated power.....	ZCP
		1. On narrow-band to ..... watts.	
		2. On Spread Spectrum..... watts. Note: This power excluded that for access D or E.	
		3. Of access....(1-40,N1-N5, D or E) to ..... (watts)	
		4. Of access....(1-40, RAE) to.....(0,3,6,9db) below full access at Combiner Unit.	
		Change FM/FDM mode to Mode .....(A/D) with deviation .....kHz	ZCQ
I am about to initiate....	ZCR		
1. Serial			
2. Parallel synchronization of accesses..... and ...			
Switch your Spread Spectrum Access...modulator to.....	ZCS		
1. Code off			
2. Search			
3. Sync. 1			
4. Sync. 2			
5. Traffic			
6. Channel A Normal On.			
7. Channel B Normal On.			
My Spread Spectrum Access demodulator is.....	ZCT		
1. CW tuned			
2. In short-code lock			
3. In long-code lock			
4. In long-code and data-lock on Channel A only			
5. In long-code and data-lock on both channels.			

ENCODE

KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
<p>SATELLITE (Cont'd)</p>		<p>Set Spread Spectrum Access.....to..... 1. Channel A only. 2. Channel A and B retain- ing original radiated power for this access.</p>	ZCU
		<p>Set speed of Spread Spectrum Access.....Channel....(A/B) to..... 1. 1300 bd.      4. 1200 bd 2. 2600 bd.      5. 2400 bd. 3. 600 bd.        6. 4800 bd.</p>	ZCV
		<p>1. Check your...and advise 2. I have lost ..... 3. Perform back to back through..... 4. Bypass 5. I have bypassed 6. Retune demodulator To be used in conjunction with ZCX.</p>	ZCW
		<p>1. Test loop 1 2. Test loop 2 3. Test loop 3 4. Test loop 4 5. Paramp 6. High Power Amplifier 7. Demodulator 8. Mux Channel A 9. Mux Channel B 10. Demux Channel A 11. Demux Channel B 12. Coder 13. Decoder 14. Tracking (including side lobe) 15. 5 MHz standard 16. Synthesizer 17. Power Supply 18. Modulator 19. Satellite 20. Crypto Equipment 21. Patching DC 22. Patching RF 23. Patching Clock</p>	ZCX

ENCODE

KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL	
SATELLITE (Cont'd)		Operate at.....(BPS)..... 1. 75 2. 84 3. 150 4. 168 5. 300 6. 336 7. 672 8. 1200 9. 2400 10. 4800 11. 9600 To be used in conjunction with ZCZ	ZCY	
		1. Coded 2. Uncoded 3. Satellite Access Chan- nel at.....DBW 4. Relinquish Satellite Access due to sole access..... 5. Relinquish Satellite Access due to violation of Power Restrictions 6. Increase Power to ..... DBW 7. Decrease Power to ..... DBW 8. NB ALPHA 9. NB BRAVO 10. Change Satellite Access Channel to....at DBW	ZCZ	
		11. Satellite	ZTA	
	SIDEBAND	Can you receive both sidebands of my Indepen- dent sideband transmis- sions?	I can receive...(1. The up- per sideband; 2. The lower sideband; 3. Both side- bands).	ZRM
		Do you intend to trans- mit on...(1. The upper sideband; 2. The lower sideband; 3. Both side- bands independently)?	I intend to transmit on... (1. The upper sideband; 2. The lower sideband; 3. Both sidebands independently).	ZRN
		Change to other sideband.	ZRQ	
	SIGNAL QUALITY	How is the tone of my transmission?	The tone of your trans- mission is... 1) good. 2) variable. 3) bad.	QRI

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KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
SIGNAL QUALITY (Cont'd)	What is the intelligibility of my signals (or those of...)?	The intelligibility of your signals (or those of...) is... 1) bad. 2) poor. 3) fair. 4) good. 5) excellent.	QRK
		Your signals are... (1. Fading badly; 2. Fading slightly; 3. Good for... words per minute; 4. Getting stronger; 5. Getting weaker).	ZPC
	Is your signal as checked by monitor ...satisfactory (1. Locally; 2. As radiated)?	My signal as check by monitor...is satisfactory (1. Locally; 2. as radiated).	ZPD
	What is the readability of the signals of the group (net) (or of...)?	The readability of the signals of the group (net) (or of...) is...(1 to 5)	ZPF
	What is (are) signal strength(s) of group (net) (or of...)?	Signal strength(s) of group (net) is (are) (or of...) is... (1 to 5)	ZPG
	This transmission is a transmitter pre-acceptance trial. Request expeditious strength and readability reply.	ZPT	
SIGNAL STRENGTH	What is the strength of my signals (or those of...)?	The strength of your signals (or those of...) is... 1) scarcely perceptible. 2) weak. 3) fairly good. 4) good. 5) very good.	QSA
	Are my signals fading?	Your signals are fading.	QSB
SPEED KEY		Your speed key is improperly adjusted.	ZAB
SPEECH		Your speech is distorted.	ZPA

ENCODE

KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
TAPE	Is my... 1) tape ) 2) mark and space) reversed?	Your... 1) tape ) 2) mark and space) is reversed.	QJA
	Shall I run... 1) my test tape? 2) a test sentence?	Run... 1) your test tape. 2) a test sentence	QJH
	Shall I transmit 12 inches of blank tape at short intervals at...words per minute?	Transmit 12 inches of blank tape at short in- tervals at...words per minute.	ZAW
		Your...is reversed. (1. Tape; 2. Mark and space).	ZBN
TECHNICIAN	Will you...(1. get the Circuit Engineer/Facil- ity Control Technician to speak on this cir- cuit (or circuit...); 2. hand the line over to the Circuit Engineer/ Facility Control Tech- nician for check)?	I will...(1. get the Circuit Engineer/Facil- ity Control Technician to speak on the circuit; 2. hand the line over to the Circuit Engineer/ Facility Control Tech- nician for check and call you when check has been completed).	ZTQ
TELETYPE RANGE	What is teletype range taken on my signal(s)?	Teletype range taken on your signal(s) is...to...	ZAU
TEST	Shall I run... 1) my test tape? 2) a test sentence?	Run... 1) your test tape. 2) a test sentence.	QJH
		Run... (1. Caller; 2. Test tape; 3. Synchronizing tape; 4. Traffic tape; 5. Marking signals; 6. Spacing signals; 7. Reversals; 8. Run tele- typewriter space bar signals). 9. Datel test at...bd	ZAI



ENCODE

KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
TRIAL		This transmission is a transmitter pre-acceptance trial. Request expeditious strength and readability reply.	ZPT
TRANSMITTER		One or more transmitters, simultaneously keying on this broadcast, are defective but transmission will continue on remaining transmitters. Traffic so transmitted will be repeated when full service is restored.	ZAZ
TUNE	Shall I tune my transmitter to...(1. Proper frequency; 2. Zero beat with your (or...) transmitter)?	Tune your transmitter to...(1. Proper frequency; 2. Zero beat with my (or...) transmitter).	ZRC
USE	Shall I use...?	Use...	ZTD
	Are you (or is...) able to use...?	I am (or...is) able to use...	ZTE
		Cease using...	ZTJ
		I am (or...is) unable to use...	ZTM

Note: Class of emission/type of transmission may be indicated using the signal ZTG and Chapter 6 (see para 104.m.).