

<p>ELECRAFT KX3 ©</p> <p>Button Conventions Each button has a TAP function and a press and HOLD second function.</p> <p>Knob Conventions AF/RF-SQL MON, Primary function is AF gain, TAP for RF gain or SQL in FM. Hold 1/2 sec for MON function.</p> <p>Operating Bands .5-54 rcv</p> <table border="1"> <thead> <tr> <th>Band</th> <th>Freq Range MHz</th> <th>Mode</th> </tr> </thead> <tbody> <tr><td>160 m</td><td>0.5 – 2.0</td><td>ALL</td></tr> <tr><td>80 m</td><td>3.5 – 4.0</td><td>ALL</td></tr> <tr><td>60 m</td><td>5.3 – 5.4</td><td>ALL</td></tr> <tr><td>40 m</td><td>7.0 – 7.3</td><td>ALL</td></tr> <tr><td>30 m</td><td>10.0-10.15</td><td>ALL</td></tr> <tr><td>20 m</td><td>14.0-14.35</td><td>ALL</td></tr> <tr><td>17m</td><td>18.068 - .168</td><td>ALL</td></tr> <tr><td>15 m</td><td>21.0 -21.45</td><td>ALL</td></tr> <tr><td>12 m</td><td>24.89- .99</td><td>ALL</td></tr> <tr><td>10 m</td><td>28.0-29.7</td><td>ALL</td></tr> <tr><td>6 m</td><td>50 -54</td><td>ALL</td></tr> <tr><td>(with KX144 installed)</td><td></td><td></td></tr> <tr><td>2 m</td><td>144 -148</td><td>ALL</td></tr> </tbody> </table>	Band	Freq Range MHz	Mode	160 m	0.5 – 2.0	ALL	80 m	3.5 – 4.0	ALL	60 m	5.3 – 5.4	ALL	40 m	7.0 – 7.3	ALL	30 m	10.0-10.15	ALL	20 m	14.0-14.35	ALL	17m	18.068 - .168	ALL	15 m	21.0 -21.45	ALL	12 m	24.89- .99	ALL	10 m	28.0-29.7	ALL	6 m	50 -54	ALL	(with KX144 installed)			2 m	144 -148	ALL	<p>Mode Change</p> <ul style="list-style-type: none"> ● Tapping MODE selects LSB, USB, CW, DATA, AM or FM. ● ALT modes, CW REV, DATA REV, AM-S or FM+/- are selected by holding ALT. USB and LSB are alternates of each other. ● In SSB the + icon indicates ESSB mode. <p>Indicator LEDs</p> <ul style="list-style-type: none"> ● TX = transmitting when lit ● OFS = Off set on ● VFO B = VFO B is active ● Δf = Rx and Tx not the same <p>Supply Voltage & Current</p> <p>Power connector: 2.1 mm x 5mm Internal battery: 12.0 vdc (8 alk) External. Operating bat: 9- 15 vdc Rx: (mono) 150mA normal Tx: (mono) 2.5A max</p>	<p>More display icons</p> <ul style="list-style-type: none"> ● I/II = pass band tuning function, see page 12. ● This symbol is shown on all menus that must be first unlocked before changing value. UNLOCK by pressing KHZ for 3 secs. Lock symbol will turn off, adjust item. <p>No Transmit CW Practice</p> <ul style="list-style-type: none"> ● If PTT-CW is selected by holding VOX it will only generate sidetone unless you tap XMIT <p>Monitor level</p> <ul style="list-style-type: none"> ● Press MON to set transmit monitor level in voice, cw sidetone <p>Compression level</p> <ul style="list-style-type: none"> ● Tap CMP adjust knob above <p>CW, PSK, RTTY Decode</p> <ul style="list-style-type: none"> ● Select MODE, Set VFO B to not show specials. Press and hold Text. 	<p>GPIO / Keyline Port 2</p> <ul style="list-style-type: none"> ● ACC2 2.5 mm stereo jack, tip is keyline, ring is 3v logic signal. <p>Quadrature RX I/Q output</p> <ul style="list-style-type: none"> ● RX I/Q, 2.5 mm stereo jack Provides quadrature outputs for SDR software <p>Computer Control port 1</p> <ul style="list-style-type: none"> ● ACC1 3.5 mm stereo jack connects to computer via KXUSB or KXSER cable for firmware updates, control and configuration using KX3 utility or KX3 Memory pgm. Tip = RX, Ring = TX <p>Mic Connector 3.5 mm</p> <p>Four conductor mic plug Sleeve - ground Ring 2 – Logic Ring 1 – PTT/UP/DWN Tip – mic audio, see page 5</p>	<p>Channel Hopping (SCAN)</p> <ul style="list-style-type: none"> ● Most useful on channelized bands. Store frequencies in sequential channels. Add a text label, the first character must be *. <p>RCL one of these memories. Live scan can be started by using SCAN. Radio hops these * channels. To disable tap RATE or change bands.</p> <p>Passband Tuning</p> <ul style="list-style-type: none"> ● In voice mode PBT I/II function I is low cut, function II is high cut. In CW or DATA I is width and II is shift. Hold PBT I/II NORM to reset. <p>XIT - RIT</p> <ul style="list-style-type: none"> ● Tap XIT or RIT OFS LED turns on, use OFS/VFO B to adjust the offset. To exit hold CLR
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<p>Power ON/OFF BAND- & ATU/TUNE 2 sec.</p> <p>TX PWR Level 0.0 to 10W on 80m thru 15m 0.0 to 8w on 12 m thru 6m. Press and hold KEYER/MIC PWR then adjust power level with KEYER/MIC knob.</p> <p>Band Change Tap BAND- BAND+ To change Bands may be locked out of list.</p> <p>Access and change Menus Press and hold MENU until a menu entry appears in VFO B area. Item value appears in VFO A. To change value rotate VFO A. To change menu item rotate VFO B. Hold MENU to exit. While in menu, hold MENU for 3 seconds to display more info about current menu entry. Tap any button to exit.</p>	<p>Other Display Icons</p> <ul style="list-style-type: none"> ● AGC S F = AGC Slow, Fast ALC= auto level control on, pg 25 AM-S = AM mode, ___ ANT 1 2 = antenna 1(HF), 2 (2M) ATT = Attenuator on, pg13 ATU = tuner enabled, pg 14 CMP= Compressor, page 8 CWT= Automatic CW tune, 13 NB = noise blanker, pg 13 ◀▶ = manual notch, pg 13 NR = Noise reduction on. Pg 13 NTCH = man or auto notch on, 16 PRE = Preamp on, 13, QSK = Full break-in CW on, pg16 RL = manual notch on, pg 13 RX = Auto Rec attenuation on, 13 RIT= rec incremental tuning, 11 SPLT = Split mode on, pg19 SUB = dual watch enabled, pg 20 TX = points to active TX VFO see split VOX = vox enabled, pg 15, 16 	<p>Storing memory channels</p> <ul style="list-style-type: none"> ● Select freq to store, hold STORE, rotate VFO A to mem #, Hold STORE again to store, or tap any other switch to cancel. <p>Recall Memories</p> <ul style="list-style-type: none"> ● Hold RCL then select mem 00-99 using VFO A. <p>Direct Frequency Entry</p> <ul style="list-style-type: none"> ● Tap FREQ ENT, enter up to 3 MHz digits, then decimal point, (ATU) then up to 3 khz digits then ← (MSG) switch <p>Add label to Memory</p> <ul style="list-style-type: none"> ● Hold RCL then select memory # with VFO A, turn VFO B to select text position at flashing cursor, use VFO A to change label character, after editing hold STORE to store and finish. 	<p>Menu summary-1 (locked items -)</p> <ol style="list-style-type: none"> 2 TONE - OFF- enables 2 tone generator ACC2 IO -OFF-determines function of GPIO sig AF LIM - 30- LIMITERWHEN AGC IS OFF AFX MD-DELAY- STEREO EFFECTS AGC MD-ON - AGC MODE ON/OFF AGC SPD - SLO - FAST/SLOW AGC THR - 005 - SEE DETAILS PAGE 36 ALARM - OFF- AUTO POWER ON AM MODE-ON-AM MODE ON/OFF ATU MD-TUNER MODE BYPASS OR AUTO AUTO INF- BAND DATA TO ACC1 JACK AUTO OFF - INFINITE - SETS OFF TIME BAT CHG - SET TO NOR IF CHGR INSTALED BAT MIN - 10 - SETS WARNING THRESHOLD BKLIGHT- ON - BACKLIGHT ON/OFF BND MAP- IN - SETS BANDS DISPLAYED COR LVL- 1- PROTECTS RCV FRONT END CW IAMB -A- IAMBIC MODE A OR B CW KEY1- TIP-SELECTS KEYSER TYPE, SIDE CW KEY2 - L-DOT-SELECTS PADDLE TYPE CW WGHT-1.25- ADJUSTS TIMING RATIO DUAL RX-OFF- SEE MANUAL PG 20 FM DEV - 3.5 - FM VOICE DEV IN KC FM MODE - ON - ON/OFF FW REVS - SOFTWARE REVISION #S LCD TEST- ROTATE VFO A TO TEST ALL MIC BIAS - ON- BIAS FOR MIC ELEMENT MIC BTN - FOR PTT UP/DWN OR OFF MSG RPT- MSG REPEAT INTERVAL PREAMP - 20DB- 10, 20 OR 30 DB REF CAL - REFER TO MANUAL PAGE 31 	<p>Menu summary-2</p> <ol style="list-style-type: none"> RPT OFS - TX OFFSET PER BAND & MEM RS232 -4800- FIRMWARE TRANSFER 38400 RX EQ-EQ FOR CW AND VOICE MODES RX IQ - OFF -SET TO ON FOR SDR RX ISO - OFF - VFO ISOLATION AMP RXSBNUL-OPPOSITE SB NULL PG 32 RX SHFT- NOR- SHIFT IF UP TO 8KC RX XFIL - NOT INSTAL- SET TO NOR IF INST SER NUM- N/A -YOUR S/N SET AT FACTORY SMTR MD-NOR-SMETER - OR TO ABS SW TEST- OFF- SET ON TO READ ADC SW TONE- ON- PRESS GENERATES TONES TECH MD-OFF- SET TO ON TO READ PARAM TIME -N/A- REAL TIME CLOCK VIEW/SET TUN PWR- NOR- FOLLOWS TUNE PWR, ADJ TX BIAS- PG.32 MANUAL, TRANSMIT BIAS TXCRNUL- CARRIER NULL PG. 34 TX EQ-+DB-TRANSMIT EQUALIZER AS RXEQ TX ESSB- OFF3.0-EXTENDS TX BNDWDTH TX GAIN- TRANSMIT GAIN SEE PG. 33 TX GATE - OFF-TX NOISE GATE BACKGRND TXSBNUL- nnn- FACTORY SIDEBAND NULL VFO CRS-PERMODE-COURSE TUNING RATE VFO CTS-256-VFO COUNTS PER TURN VFO NR- ON-ON/OFF- VFO TUNING NOISE VFO OFS-ON - XIT/RIT OFFSET - VARIES VOXGN- 030- VOX SENSITIVITY VOX INH- ANTIVOX WATTMTR -1.00- FOR FINE CALIBRATING INTERNAL WATTMETER 61-66 ARE FOR TRANSVERTER BAND SETUP - SEE MANUAL FOR DETAILS 																																										