

ELECRAFT KX3 OWNER'S MANUAL ERRATA

Rev. C5-3, Sept. 22, 2017

Firmware Features

ATU data sets for use at different locations: The KX3 stores two full sets of per-band data for the internal ATU (KXAT3). Use the *ATU DATA* menu entry to select which set to use. Typically **SET 1** is used at a home location, and **SET 2** for field operation. **Note:** This has no effect on KXAT100 ATU data, which is stored separately for each of the KXPA100 amplifier's two antenna jacks.

ATU LC network value display and CLR use: In either the *ATU.DATA* or *ATU MD* menu entry, tapping the **ATU** switch shows the present values of L (inductance), C (capacitance) and N (L-network configuration). This applies only to the internal ATU (KXAT3). The displayed data format is **LxxCxxNy**. <xx> is a 2-digit hexadecimal value that, when converted to binary, shows which ATU L or C relays are engaged. <y> shows which side of the L-network the capacitance is on: **Nt** = TX side, and **NA** = antenna side. **Using CLR:** Within the *ATU.DATA* or *ATU MD* menu entries, **CLR** (hold of the OFS/B knob) now clears KXAT3 ATU data only for the presently selected data set (**SET 1** or **SET 2**) on the present band. As before, **CLR** is recommended when using the internal ATU with a new antenna. Once the data is cleared, very few ATU tune operations will usually be needed to cover an entire band. **Note:** If a KXPA100 amplifier is connected, the **CLR** operation applies to the KXAT100 ATU's per-band/per-antenna data, not to the data for the internal KXAT3 ATU.

PSK63 mode: PSK63 is a faster version of PSK31. Select 31 or 63 baud using VFO A when doing **DATA** setup.

Up to 15 W: On 80-20 m, the PWR control can now be set as high as 15 W. Supply voltage must be over 12.8 V or higher on key-down. If a band other than 80-20 m is selected, power output will be cut back to 12 W max. It must then be manually set above 12 W after switching back to 80-20 m.

Extended Temperature Compensation: VFO temperature compensation improves stability for data modes and 2 m/4 m operation. See: <http://www.elecrafter.com/manual/KX3%20Custom%20VFO%20TC%20rev%20A9.pdf>

+5 VDC on 2 m/4 m antenna jack: Many high-band transverters and other gear can use a DC voltage of 3-12 V on the center conductor of the antenna coax to provide T/R switching of other functions. The KX3-2M/-4M module can place +5 VDC (+/- 0.3 V) on its SMA antenna jack if desired. To turn this feature on/off, locate the *2M/4M* menu entry and tap '2' (**ATTN**). The parameter will be either **TXant 5V-** (off) or **TXant 5V+** (on). ("ant" is actually displayed as a small antenna symbol.)

CW QSK mode selections: Taping '3' (**APF**) in the CW WGHT menu entry selects either **OLD QSK** (original) or **NEW QSK**. The latter reduces artifacts heard in the receiver during CW keying on a noisy band, at the expense of a slightly longer receive recovery time.

Fast Message Play: A long-hold of **MSG** (~3 seconds) puts the KX3 into **FAST PLAY** mode. In this mode, the **BAND+**, **BAND-**, and **FREQ_ENT** switches can be used to playrepeat messages 1, 2 and 3 immediately, without the need to first tap **MSG**. To turn off fast play, hold **MSG** for ~3 seconds again, or turn the KX3 off and back on.

CAUTION Regarding Low Supply Voltage

The KX3's maximum power output when running from a 10 V supply is 10 W. However, when a low supply voltage is used with modes that require high linearity (e.g., SSB, AM, PSK), power output should be reduced to 5 W to ensure low transmit IMD (intermodulation products). Use higher power at 10 V only when necessary to complete critical communications. Also, when driving an external ampflifier using 5 W or higher, always power the KX3 from 12-14 V.

Corrections

None.

Not implemented: S-meter absolute mode (*MENU:SMTR MD*); addressing of multiple transverters (*XVn ADR*).