

# Using TuneMatic AMP option with Elecraft KXPA100 amp

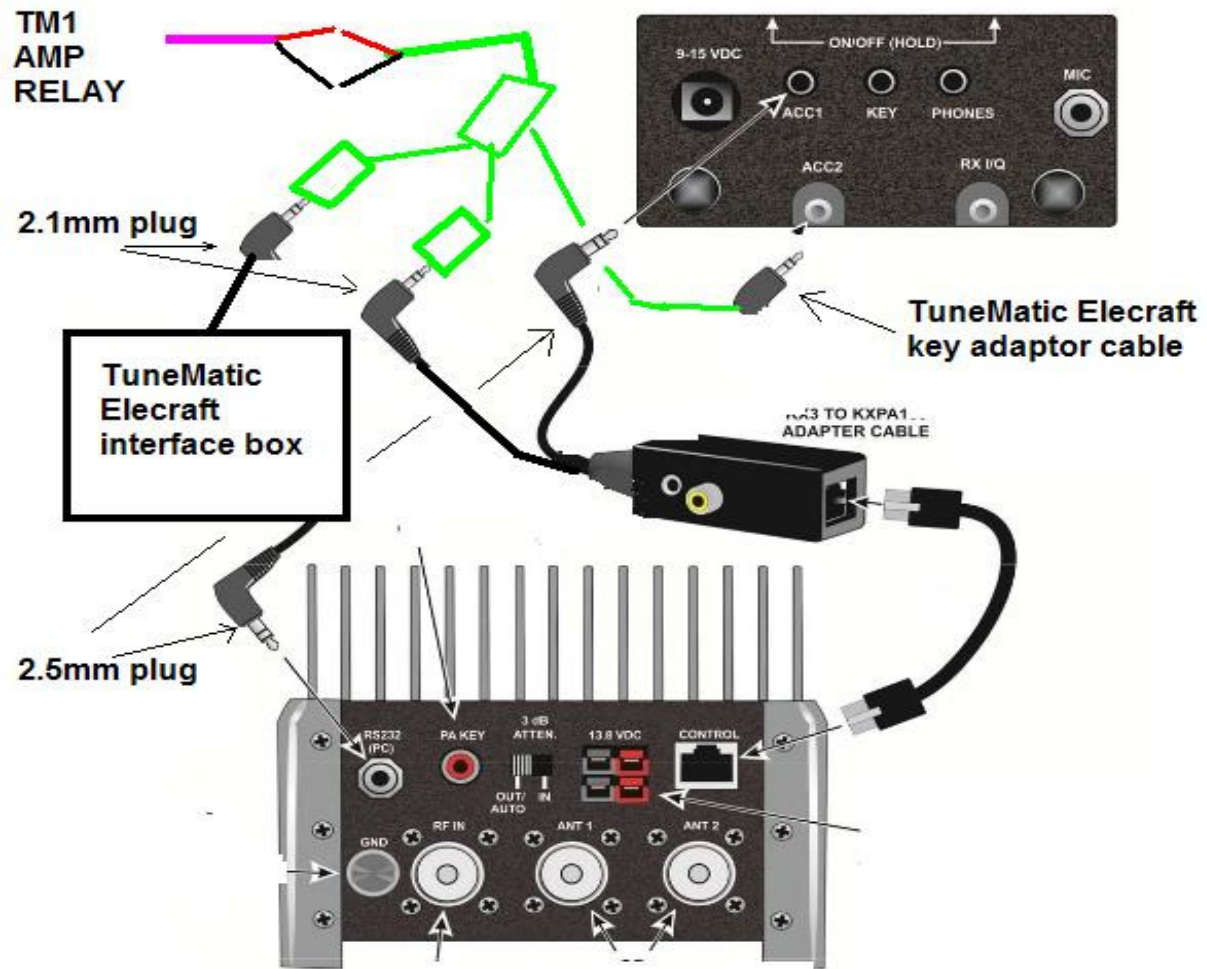
The Elecraft KXPA100 communicates data to the KX2/3 for band data through the ACC1 port of the KX3. When powered on, the KXPA100 acts as a pass-through of the data that is connected to its PC port. If the KXPA100 is turned off, the PC port has a relay that connects it directly to the KX3. When the KXPA100 is turned on, the KXPA100's CPU becomes involved to pass external data.

The keying of the KXPA100 is handled through the ACC2 port. Since the TuneMatic AMP option contains a normally closed relay that opens during tune and store cycles, the ring connection of the ACC2 from the KX2/3 to the KXPA100 must be interrupted so that the KXPA100 does not key during TuneMatic operation. The **TuneMatic Elecraft key adaptor cable** provides the proper connections for this to occur.

The KXPA100 is able to pass data through to the KX3 even though the TuneMatic is connected to the KXPA100. Since both TuneMatic and the KXPA100 share these data, some minor configurations must be made:

(refer to drawing below)

- 1) To operate the TuneMatic with Elecraft KXPA100, you will first have to set the KXPA100 baud rate to 9600 from the Elecraft software. Follow the instructions supplied with the Elecraft amp to configure this.
- 2) Connect the TuneMatic interface box 2.5mm plug into the KXPA100 "RS232" PC socket.
- 3) Connect the 2.5mm plug from the Elecraft **KX3 to KXPA100 Adapter Cable** to the Elecraft ACC1 socket, per the Elecraft manual.
- 4) Connect the CAT5 data connections from the **KX3 to KXPA100 Adapter Cable** to the KXPA100 per the Elecraft manual.
- 5) Connect the **TuneMatic Elecraft key adaptor cable** red and black leads to the TuneMatic amp keyline relay (red and black leads) cable.
- 6) connect the male 2.1mm male plug from the **TuneMatic Elecraft interface box** to the KX2/3 ACC2 socket.
- 7) Connect one of the female 2.1mm sockets of the **TuneMatic Elecraft key adaptor cable** to the 2.1mm male plug of the **TuneMatic Elecraft Interface box**.
- 8) Connect the remaining female 2.1mm socket of the **TuneMatic Elecraft key adaptor** cable to the male plug of the **KX3 to KXPA100 Adapter Cable**.
- 9) Connect remaining cables to **TuneMatic Elecraft Interface box**:
  - a) red/black to 12v power
  - b) molex cable from interface box to TuneMatic.
  - c) in KX2/3 menu; set RS232 to 9600b, and ACC2 IO to ON.



JT Communications  
 579 NE 44<sup>th</sup> Ave.  
 Ocala, FL 34470  
 352-236-0744  
[www.tunematic.us](http://www.tunematic.us)