

ELECRAFT KPA100 UPGRADE INSTRUCTIONS ERRATA

Rev. A-6, November 9, 2007

THESE MANUAL CORRECTIONS MUST BE MADE BEFORE YOU BEGIN ASSEMBLY OR YOUR KPA100 MAY NOT FUNCTION CORRECTLY

1. **Page 2, Parts List:** Change the description of resistors R4 and R33 to 1/4 watt.
2. **Page 2, Parts List:** Change the part number of R19, R20, Resistor, 1.6 ohm 2W, to E500177.
3. **Page 2, Parts List:** Add the following parts to the table:

Reference Designator	Description	Qty	Part No.
C31	Cap., .22 μ F ("μ22J63") 63V	1	E530295
C71	Cap., .0018 μ F ("182"), 5%, 200V mono, 0.2" LS	1	E530104
C72	Cap., .01 μ F ("103"), 5%, 50V mono, 0.1" LS	1	E530019
C80, C81	Cap., .0047 μ F ("472"), 10%, 100V disc, 0.25" LS	2	E530102
X1	Crystal, 18.432 MHz, low profile ("S184ECSL")	1	E660019

4. **Page 4, Note at top of page:** Delete "Proceed directly to Part III if these changes have been made. Otherwise follow the procedure below to make the changes".
5. **Page 4, Figure 2:** Cut out the new figure 2 below and paste it over figure 2 in the manual.

NOTE: Replace R19 and R20 even if you already have the correct value resistors installed. The resistors supplied have low-inductance properties required for your KPA100 to operate correctly.

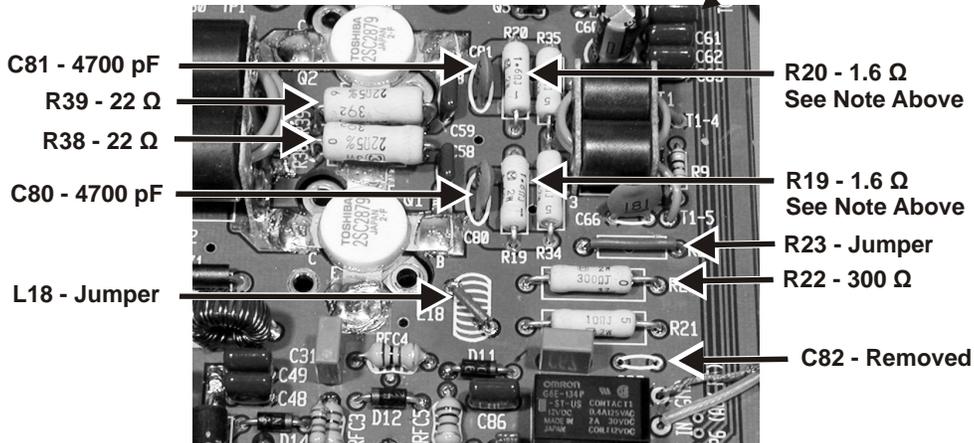
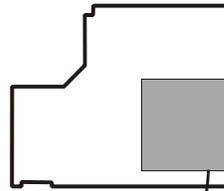


Figure 2. Input and Feedback Circuit Component Changes.

6. **Page 4:** Add the following step at the bottom of the page: (Do not cover up the existing steps on the page. Cut out this step and attach it by one edge so you can lift it to read the existing steps under it.)

Verify that C80 and C81 are 4700 pF. Normally the capacitor values will be shown as (472). If not or you can't see the values, replace them with the capacitors supplied.

7. **Page 6, Figure 5:** Cut out the new figure 5 below and paste it over figure 5 in the manual.

NOTE - If you have a Rev A PCB:
 1) L15 has no reference designator shown on the board.
 2) L16 is labeled RFC2.

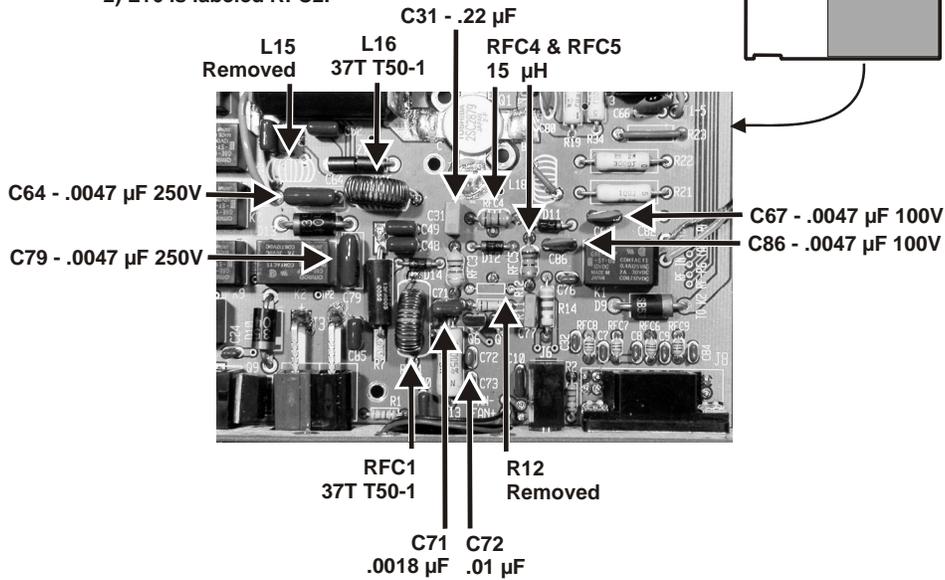


Figure 5. T/R Switch Components.

8. **Page 6, fourth step:** Change “C16” to “C64”.

9. **Page 6:** Insert the following steps after the seventh step: (Do not cover up any existing steps on the page.)

- Replace C31 with a 0.22 µF capacitor. Normally the capacitor value will be shown as (µ22J63). If the value is different or if you can't read the value, replace it with the capacitor supplied with the kit.
- Verify that C71 is a .0018 µF capacitor. Normally the capacitor value will be shown as (182). If the value is different or if you can't read the value, replace it with the capacitor supplied with the kit.
- Verify that C72 is a .01 µF capacitor. Normally the capacitor value will be shown as (103). If the value is different or if you can't read the value, replace it with the capacitor supplied with the kit.

10. **Page 8:** Add the following step as the second step under *Other Changes*:

- Check the frequency stamped on crystal X1. If it is not 18.432 MHz, replace the crystal with the one provided with the upgrade kit.

11. **Page 10:** Insert the following step after the resistance table: (Do not cover up any existing steps on the page.)

- Verify that the t-r menu is set to 8r hold. To check the setting, tap **MENU** and locate **t-r** by turning the VFO knob or pressing the **BAND+** or **BAND-** buttons. Hold **MENU** to enable the **t-r** function, then tap **DISPLAY** to toggle between **8r normal** and **8r hold**. Be sure **8r hold** is selected, then tap **MENU** twice to exit the menu function.

12. **Page 11, schematic diagram sheet 1:** Change the value of C31 to .22µF. C31 is near the top center between Q6 and Q7.