

K2 MANUAL ERRATA

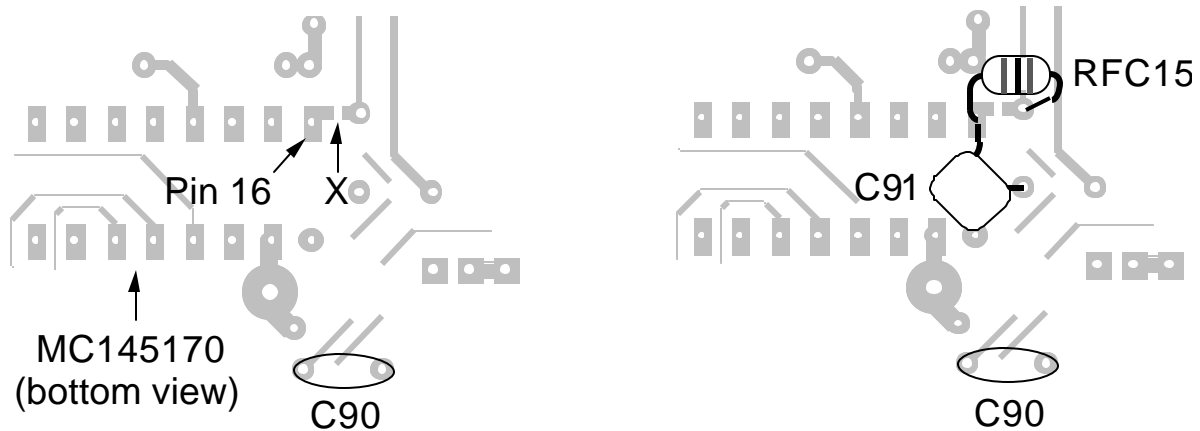
Rev. D-1, Oct. 27, 2002

READ THIS BEFORE YOU BEGIN ASSEMBLY

NOTE: The K2 has recently been upgraded, offering improved performance and easier assembly (see full list of changes below¹). When considering whether to make modifications to your K2, or when building option kits, follow instructions that pertain to **revision B K2 PC boards**, or **K2 serial number 3000** and up. Most modifications you might want to make have already been done, and option kit installation will be simplified in some cases.

- 1. Resistor Substitution:** The 1/4-watt resistors in your kit are supplied on *tape* in assembly order. Due to an error by the resistor supplier, the three 4.7 k resistors on the tape are 1% types rather than 5%. They have a BLUE body, with color code YELLOW-VIOLET-BLACK-BROWN (plus a final band not pertaining to the resistance). You can use the 1% resistors, but you should verify their value using an ohmmeter.
- 2. Page 49, right column, last step:** Installation of RFC15 and C91 on the RF board is not covered in the manual because a design change was in progress at press time. The manual refers to this errata item instead. Use these steps:

Looking at the *bottom* of the RF board, locate U4 (MC145170, near capacitor C90). As shown by the "X" in the drawing below (left), the short trace from pin 16 of U4 to C89 (on the top side) has been cut at the factory.



- Solder C91 (.001 μ F, "102") to the pads shown in the drawing at right. Use the shortest possible leads.
 - Solder RFC15 (100 μ H, brown-black-brown) to the indicated pads. Use the shortest possible leads.
 - Examine C91 and RFC15 closely to make sure that their leads are not contacting adjacent pads or traces.
- 3. Page 54, right column, first assembly step:** The outline for C6 is obscured by its pads on the revision B RF board. Of the three pads provided for C6, use the outer two. The one in the center is for use with J15 (K60XV option).

¹ **Changes include:** (1) smoother AF GAIN control; (2) improved sidetone; (3) sidetone source is U4-8 (KIO2 / KPA100); (4) RS232 Tx/D line added (KIO2 / KPA100); (5) blocking cap on AUX RF connector, P6 (KAT2, KBT2, KPA100); (6) VFO ALC changes (KPA100); (7) narrower filters for 17-10 meters (KPA100 and improved image rejection); (8) improved temperature stability (prewound T44-7 toroid for BFO, and a single wide-range crystal for the PLL reference); (9) "2nd XFIL" mod included, and 1st XFIL crystal grounding instructions improved; (10) low-drop (0.1V) reverse-polarity protection diode at D10 improves transmit efficiency and allows use of 13.8-14.2V supply rather than 14.0-14.4 for charging KBT2 battery; (11) speaker grille cloth supplied; (12) 12-pF caps in parallel with 20/30 m band-pass filter trimmers eliminate alignment difficulty on 20 m; (13) RFC11 in post-mixer amp is now a toroid to reduce unwanted S-meter activation on highest bands due to out-of-band signals; (14) voltage selector switch on control board (S1) replaced with jumper block P7 to prevent unexpected "0.0" volts reading in V/I display mode; (15) VCO instability in vicinity of 7185 kHz eliminated by improved decoupling of MC145170 IC; (16) increase in receiver audio output possible using new AGC threshold control on control board (R1); (17) complete RF probe kit now included (parts, alligator clip, coax, connectors). The "switch spacing tool" is used as the PC board for the RF probe after Front Panel assembly is complete.