901

KENWOOD

SERVICE BULLETIN

AMATEUR RADIO

SUBJECT			DATE
	TR-2600A PLL UNLOCK	(TROUBLESHOOTING)	10-18-85

The owners manual for the TR-2600A lists the lithium battery as a possible cause of the display showing "UL". You may wish to check the battery, but realistically on a new radio this is probably not the reason for the unlock condition.

- I. If the radio shows "UL" when first turned ON you should perform the following test. This will help you to isolate the symptom:
 - 1. With the radio turned OFF, press and hold the [5] key, and then turn on the radio. Release the [5] key. If the display shows a frequency indication you may have a bad X2, on the TX Unit (X56-1470-10).
 - 2. If there is no frequency display other than "UL" then proceed with step II.
 - 3. You may also wish to check crystal X1 the Reference Oscillator (10.240 Mhz at pin 16 or 17 of IC1).

II. There are several other points to check:

- Check trimmer capacitors TC4, TC5 and TC6. If you press on the trimmer and the "UL" dissappears replace the trimmer.
- 2. Check pin number 18 of IC1, it should be 5.4-6 vdc.
 - a. If the voltage is over 6.5 vdc: Replace Q17, Q18, and IC1.
 - b. If the voltage is less than 5 vdc: Replace Q17, and Q18.
- 3. Check the CLK signal at the flex pc board connector, and pin 10 of IC 1.
 - a. The CLK signal should be aprox. 4-4.4 vdc. Pin 10 should be aprox. 0-.2 vdc.
 - b. If pin 10 is high check Q16, and for cold soldering on the flexible pc board between the keyboard and the RX unit.
- 4. Check the alignment of the PLL section, as given in the Service Manual.
- 5. Press the RESET pushbutton on the back of the radio.