

# KENWOOD

ASB-1003

## Service Bulletin

**Amateur Radio Division**

**Subject:** TS-950SDX w/K1EA Ver.8 Program  
1992

**Date:** November 18,  
1992

We have received several reports of the transmitter unkeying when using the K1EA Contesting program. This symptom only occurs when the TS-950SDX is used with version 8 of the K1EA program. Apparently some of the more advanced control features of this new version of the program cause the radio to think the program has unkeyed. A new EPROM is available that corrects this transmitter drop out.

### **Procedure:**

1. Remove the top and bottom covers of the TS-950SDX.
2. Carefully unplug the two DSP unit cables from the rear of the transceiver.
3. The front panel of the radio is designed to allow it to be tilted forward for ease of service. To tilt the front panel forward remove the screw at the top of the brackets that secure the front panel to the chassis. (Please refer to the accompanying diagram.) There is one screw on each side of the front panel.
4. Next loosen the remaining screw at the bottom of each bracket.
5. Gently pull the bottom of the front panel forward until it reaches the end of the slot in the bracket and gently pull the top of the front panel down.
6. Now look at the circuit board mounted vertically on the main chassis. This is the Digital Unit (X46-3130-11). Near the center of this board you will find the lithium battery for memory backup and a large IC installed in a socket. This is the EPROM.
7. Carefully remove the IC from the socket. Use an IC puller or **very gently** pry it out by slipping a small flat tool between the IC and the socket. Do not use excessive pressure as you can damage the circuit board if you pry too hard!

Time required for this modification is 30 minutes or less. Copyright 11/18/92 Kenwood U.S.A. Corporation.

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Communications and Test Equipment Group

**Kenwood U.S.A. Corporation**

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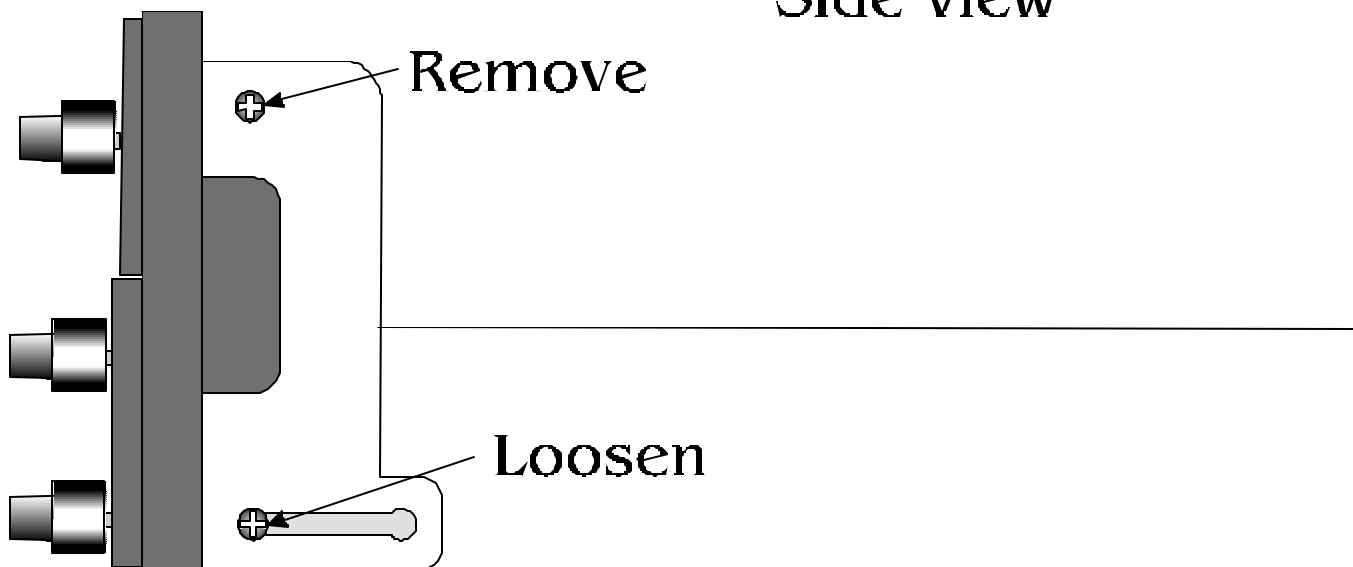
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8. Take the new EPROM and carefully install it in the now vacant socket. Note that the notch on the end of the EPROM should be down.
9. Reverse steps 1 through 5 to reassemble. Make certain you do not pinch any wires when you return the front panel to its vertical position.
10. You will need to reset the microprocessor after the radio is reassembled. This is done by pressing and holding the A=B key while the power is turned on, and then release the key.

## TS-950SDX Side view



*Caution: This modification requires soldering equipment rated for CMOS type circuits. It also requires familiarity with surface mount soldering techniques. If you do not have the proper equipment or knowledge do not attempt this modification yourself. Seek qualified assistance.*