



SERVICE BULLETIN

from: TRIO-KENWOOD COMMUNICATIONS, INC.

TS-830S

#840R

SUBJECT: TS-830S Frequency Shift

DATE 04/14/82

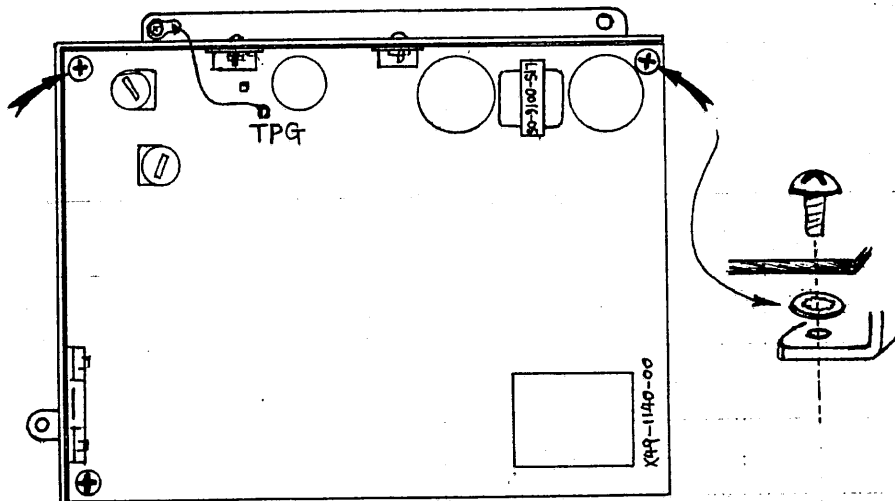
Some users may report an intermittent shift in display and operating frequency. This may typically be a 1 to 4 KHz random shift. Cause will be a loose grounding screw on the AF-AVR unit heat sink.

On the AF-AVR unit X49-1140-00, there are three self-tapping screws holding the aluminum heat sink to the PCB. These also supply the ground connection to that section of the board. Between the heat sink and PCB foil, add a tooth-lock washer N17-1030-41 at the two self-tapping screws shown. (The remaining screw already has a tooth-lock washer.)

When replacing the board to the chassis, add a solder lug E23-0420-05 to the heat sink mounting screw as shown, and tighten all screws for this board. Solder an insulated lead between the TPG (Test Point Ground) wrap post adjacent to C81, and the added solder lug.

Procedure:

1. Remove the top cover (8 screws) and unplug the speaker.
2. Remove the bottom cover (8 screws).
3. Remove 5 screws holding the AF-AVR unit and swing the board over. Leads do not have to be unplugged.
4. Add two tooth-lock washers as shown.
5. Replace the circuit board and heat sink to the chassis, adding the solder lug as shown.
6. Solder a jumper between the TPG wrap post and the added solder lug.
7. Replace the top and bottom covers.



Installation time for this procedure is $\frac{1}{2}$ hour or less.
JEB/sh