



# SERVICE BULLETIN

from: TRIO-KENWOOD COMMUNICATIONS, INC.

18

SUBJECT: SERVICE NOTES ON TR-7400A

DATE 10/06/77

## PLL AND LED DISPLAY

1. No transmit or PLL unlock light on: R-27 shorted to shield at D-1 on VCO Unit (X50-1370-10).
2. LED display changes when pushing on LED boards: Remove LED display boards on display mother board. Trim all wires as close to the circuit board as possible. Insulate the foil side of the board with thin plastic and reinstall.
3. PLL unlock light on: Check for 9 volts at 9V terminal on VCO Unit (X50-1370-10). Check Q-10 (2SC496) and zener D-5 (WZ-061) on this board.
4. PLL unlock light on and no signal at PI terminal on PD Unit (X50-1380-10): Check for open ferri-inductor L-1 in emitter lead of Q-1 on VCO Unit (X50-1370-10).
5. PLL unlock light on and no signal at pin 3 of IC-4 on PD Unit (X50-1380-10): Check for proper divide down signals on IC-10, 5, 6, 7, 8.
6. Digits in display are intermittent or some segments are not properly lit: Reseat the connectors on the Display Unit (X54-1210-10). (Push them with a small screw driver.)
7. PLL unlock light stays on when unit is first turned on or cold: Change R-4 on the PD Unit (X50-1380-10) from 470 ohms to 47 ohms.
8. PLL unlock light is on for about 2 minutes when the unit is first turned on and the inputs to IC-4 on the PD Unit (X50-1380-10) ok, but there is no output: Defective IC-4.
9. LED display changes when slightly turning or pressing down on channel select knobs: Check for loose solder connections on the circuit board under the BCD switches. (On bottom of unit.)
10. One segment of one LED is dim: LED may be defective or the resistor network may not be properly soldered.
11. Speaker howl at high volume levels: Reseal the VCO coil (inside small shield box) on VCO Unit (X50-1370-10). Use Q dope or a small amount of Epoxy glue. The VCO must be retuned after the glue dries.



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PLL AND LED DISPLAY (Cont.)

12. -600 KHz offset does not work: Check for open ferri-inductor L-1 on PD Unit (X50-1380-10).
13. LR frequency cannot be adjusted to meet specifications: Check for proper frequency at TP-1 on the PD Unit (X50-1370-10). It should be 2.56000MHz. (Must use a 33pf capacitor when counting this frequency.)