



# SERVICE BULLETIN

from: TRIO-KENWOOD COMMUNICATIONS, INC.

28

SUBJECT: REPAIRING DG-5

DATE 2-3-78

1. SYMPTOMS: TWO DOTS ON L.E.D. DISPLAY  
CHECK: HET INPUT AND VFO INPUT CONNECTIONS (DIRTY, INTERMITTANT, MISSING).
2. DISPLAY READING WRONG FREQUENCY  
CHECK: IF DISPLAY FREQUENCY IS READING OFF BY 2MHZ AND LAST FOUR DIGITS ON DISPLAY READING (894.9) CHECK CARRIER INPUT WIRE (DIRTY, INTERMITTANT, MISSING).
3. NO DISPLAY OR DIM DISPLAY, DIGITS MISSING  
CHECK: 5V REG (IC POWER) NOT WORKING OR PLATED THRU HOLES NOT PLATED THRU.

ABOVE ARE COMMON MECHANICAL FAILURES THAT OCCUR WITH DG-5. WE SUGGEST THE FOLLOWING TROUBLESHOOTING PROCEDURE:

CHECK:

- A. POWER ALL POWER SUPPLY LEVELS.
- B. REFERENCE OSCILLATOR (Q21) AND DIVIDER CHAIN IC5~IC11 (RF, WAVEFORMS, D.C.).
- C. CARRIER, VFO AND HET, ALSO COUNTER (WHEN APPLICABLE) FOR RF, WAVEFORMS AND D.C. LEVELS; SEE SERVICE MANUAL FOR PROPER LEVELS.

NOTE: OPERATION OF THE CIRCUITS ARE ESSENTIAL BEFORE PROCEEDING.

IT'S BEEN KENWOOD'S EXPERIENCE THAT WHEN PROBLEMS DO OCCUR WITH THE DG-5 THAT APPROXIMATELY 90% OF THE PROBLEM WILL BE CAUSED BY INSUFFICIENT SOLDER CONNECTIONS AND NOT THE ACTUAL COMPONENTS THEMSELVES.

NOTE: WE SUGGEST THE FOLLOWING PROCEDURE IF BUFFERS, MIXERS AND OSCILLATORS ARE WORKING PROPERLY: SEE SERVICE MANUAL FOR PROPER LEVELS.

CHECK:

- A. ALL SOLDER CONNECTIONS (LOOSE OR COLD).
- B. SOLDER ALL PLATED THRU HOLES; 32 GAUGE WIRE INSERTED IN PLATE HOLES TAKES APPROXIMATELY 30 MINUTES TO DO AND IS VERY, VERY, EFFECTIVE.

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SERVICE SUGGESTION:

A HEAT GUN AND FREEZE SPRAY OFTEN ARE VERY EFFECTIVE IN LOCATING COLD OR NON-PLATED THRU HOLES.

- A. HEAT BOARD WITH HEAT GUN (EXPANDS BOARD). THIS OFTEN CAUSED DORMANT OR LOOSE CONNECTION TO APPEAR.

SB:AR