

SERVICE BULLETIN

from: TRIO-KENWOOD COMMUNICATIONS, INC.

TR-8400

#843

SUBJECT: TR-8400 Sub-audible Encoder Installation

DATE 02/18/81

When installing a sub-audible encoder in a first-lot radio, change the Tone switch power source from the 8C (common) to the 9T (transmit) line. This will prevent the encoder from distorting the receiver when the Tone switch is ON.

Procedure

Remove the bottom cover (2 long screws, rear, 3 short 1. screws, front) and unplug the speaker.

Cut the GRAY lead to the Tone switch wiper one inch from the switch. Tape-insulate the long lead to the harness.

Connect the switch wiper to the Mic connector, pin 5. 3. (See Fig. 1)

Install the encoder, connect the speaker, and replace the 4. bottom cover.

For complaints of distorted sub-audible tone in a first-lot unit, replacing components and readjusting the PLL will reduce or eliminate distortion.

Procedure

Remove the top cover (4 screws). ٦.

Remove the rubber conductive shield. 2.

Remove the aluminum cover from the PLL unit X50-1670-xx (17 scews).

Unplug connectors J2-J6. 4.

Remove 11 screws and 2 threaded studs securing the PLL printed circuit board. Shift the board to the rear, then swing up and to the right.

Use Wikit or a desoldering tool to remove and replace; 6.

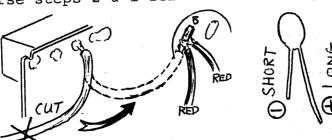
WIKIL OF G	accerace many		/ of 07\
Component	was	replace with	(vicinity of Q7)
R30	$12 \mathrm{k}\Omega$	18kΩ ¼W `	
KJO		0000 117	
R31	820Ω	390Ω ¼W	
17.5 (- · · · · · · · · · · · · · · · · · · ·	45.7 Mantalin	m (observe polarity)
C47	6.8µF	15hr Tancaru	m (ODSCIVE POIGEIS)
C41	•	4 E TO 11	
C48	6.8µF	15μF "	

Note: Don't create solder-bridges or lift the foil.

Reverse steps 5, 4, 3 to partially reassemble.

7. Perform the PLL adjustment listed in the Service Manual, Page 24, item 2.

Reverse steps 2 & 1 for final assembly. 9.



PLL unit (X50-1670-51, 61) 000000000

TRIO-KENWOOD COMMUNICATIONS, INC.

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