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TECH-NIQUE

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A communication of vital interest to every Courier dealer

S-227

December 6, 1973

SUBJECT: MODIFICATIONS TO COURIER TR-5

Refer to Schematic LI-22

A - On certain mobile antennas, particularly base loaded style, the transmitter may go into self oscillation after the mike button is released. The result is heard as a "garbling" sound in the speaker during receive mode. The oscillation condition may be most apparent when the receiver is "squelched" with the squelch control adjusted just below the noise level.

Cure: Add a 1000 ohm, 1/4 Watt resistor across the primary of A-6 coil located (between Q-10 and Q-11). This size resistor can be added under the PC board. If 1/2 Watt resistor only is available, form the leads about 1" long, tin the coil itself on the top of the PC board.

If this does not cure the problem, replace A-6 coil with CO-35A and add the 1000 ohm resistor as above.

B - Oscillation on outgoing carrier during transmit mode (RF feedback). RF feedback causes a noticeable "squeal" on transmitted carrier.

Cure: Change R-36 (to Q-13) from 10 ohms to 47 ohms.

Also, be sure CE-29 (C-34 on schematic) is well grounded. Reheat ground connection on this capacitor with a soldering iron while pushing upward on the capacitor so that the lug can be resoldered to the PC board. Re-solder the eight ground lugs which connect from the wraparound to the PC board. If improperly soldered to the board, these lugs can (if unsoldered) contribute to RF feedback.

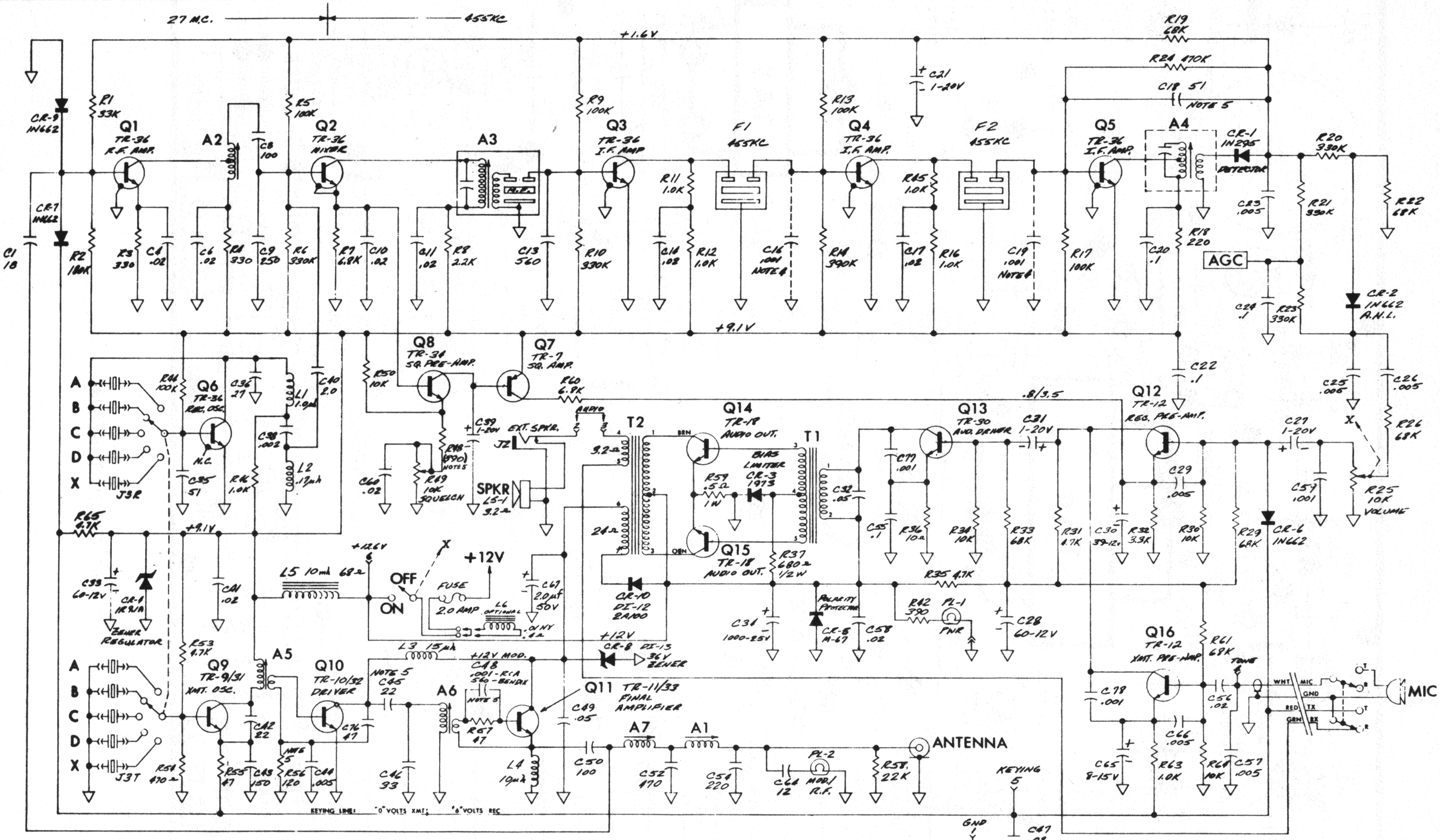
Delete the cabinet screw next to the screw which holds the Q-11 heat sink to the wraparound.

Tape the edge of the wraparound next to the audio output transistors Q-14 and Q-15. This will prevent the speaker frame from touching the wraparound, If grounded, feedback may result.

Ray Dashner

Ray Dashner
Customer Service Mgr.

RD:rt



NOTES:

1.) RESISTANCE VALUES GIVEN IN OHMS. MULTIPLIERS: K = 1,000 ; M = 1,000,000 = 1,000K.
2.) UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/4 WATT.
3.) DECIMAL CAPACITY VALUES ARE GIVEN IN MICROFARADS; DIGITAL VALUES IN PICOFARADS (MICRO-MICRO FARADS); ELECTROLYTIC VALUES IN MICROFARADS ALONG WITH RATED W.V.D.C.
4.) NOT USED IN SOME UNITS.
5.) THE VALUE OF THIS COMPONENT(S) IS DETERMINED AT THE TIME OF TEST & MAY DIFFER FROM THE NOMINAL VALUE SHOWN.
6.) #μv @ ANT. & Q1 BASE ARE FOR -1.0V @ A.G.C. T.P. } TEST EQUIP.: MEAS. MOD 80 SIG. GEN. } .05μf BLOCKING CAP. RCA WV-77E V.T.V.M.
7.) ALL OTHER μv's ARE FOR -2V @ A.G.C. T.P. " " " 92 "
8.) REC. XTAL. FREQS. 26.510 → 26.800 MC OR f₀ - 455KC. XMT XTAL FREQ. @ f₀.
9.) THIS SCHEMATIC REFERS TO PRINTED CIRCUIT BOARD ISSUE "A".

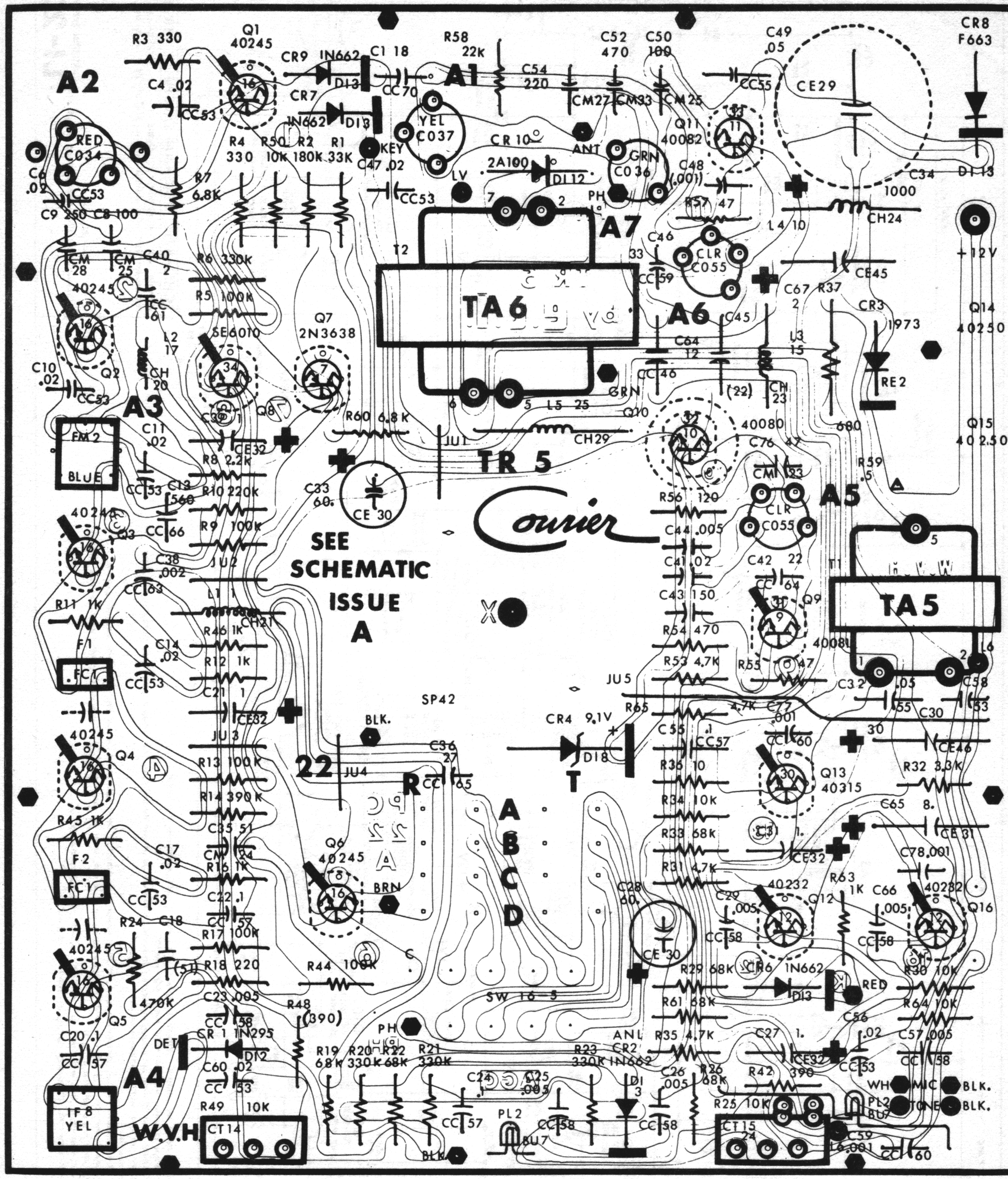
SCHEMATIC DIAGRAM OF THE TR-5

DRAWN BY: H.G. GRILK, ENGR. 8-31-66
DESIGNED BY: W.V. HARGREAVES, V.P. R&D. 8-31-66

914-761-8260

"A" ISSUE REL. FOR PROD: 12-29-66

DRAWING NUMBER LI-22 ISSUE A



PRINTED CIRCUIT BOARD