

This Manual is provided by
CBTricks.com

Someone who wanted to help you repair your equipment
scanned this manual.

If you would like to help us put more manuals online support us.

Supporters of CBTricks.com paid for the hosting so you would have this file.

CBTricks.com is a non-commercial personal website was created to help promote the exchange of service, modification, technically oriented information, and historical information aimed at the Citizens Band, GMRS (CB "A" Band), MURS, Amateur Radios and RF Amps.

CBTricks.com is not sponsored by or connected to any Retailer, Radio, Antenna Manufacturer or Amp Manufacturer, or affiliated with any site links shown in the links database. The use of product or company names on my web site is not endorsement of that product or company.

If your company would like to provide technical information to be featured on this site I will put up on the site as long as I can do it in a non-commercial way.

The site is supported with donation from users, friends and selling of the Galaxy Service Manual CD to cover some of the costs of having this website on the Internet instead of relying on banner ads, pop-up ads, commercial links, etc. to pay my costs. Thus I do not accept advertising banners or pop-up/pop-under advertising or other marketing/sales links or gimmicks on my website.

ALL the money from donations is used for CBTricks.com I didn't do all the work to make money (I have a day job). This work was not done for someone else to make money also, for example the ebay CD sellers.

All Trademarks, Logos, and Brand Names are the property of their respective owners.
This information is not provided by, or affiliated in any way with any radio or antenna Manufacturers.
Thank you for any support you can give.



TECH-NIQUE

990 South Fair Oaks Avenue, Pasadena, California 91105 / Telephone: (213) 799-9164

A communication of vital interest to every Courier dealer

S-228

December 6, 1973

SUBJECT: MODIFICATIONS FOR COURIER TRAVELLER

Refer to Traveller schematic LI-39

- A - On certain model antennas, particularly base loaded styles, 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. Cure: add 1000 ohm 1/4 Watt resistor across the primary of A-10 coil (between Q-10 and Q-11). This size resistor can be added under the P.C. board. If 1/2 Watt resistor only is available, form the leads about 1" long, tin each lead and solder to coil primary on the coil itself on top of the PC board.

If this does not cure the problem, replace A-10 coil with CO-35A and add the 1000 ohm resistor as above.

The oscillation condition may be most apparent when the receiver is "squelled" with the squelch control adjusted just below the noise level.

- B - Oscillation on outgoing carrier during transmit mode (RF feedback)

RF feedback causes a "squeal" on transmitted carrier. Cure: Change R-36 (to Q-13) from 10 ohms to 47 ohms.

Also, be sure CE-29 capacitor (C-34 on schematic) 1000 mfd. @ 25V 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. Resolder the ground lugs (eight) which connect from the wraparound to the PC board. There are 2 of these riveted lugs on each of the four sides of the wraparound. If improperly soldered to the board, these lugs can (if unsoldered) contribute to RF feedback.

Tap the edge of the wraparound next to the audio output transistors Q-14 and Q-15. This is to prevent the speaker

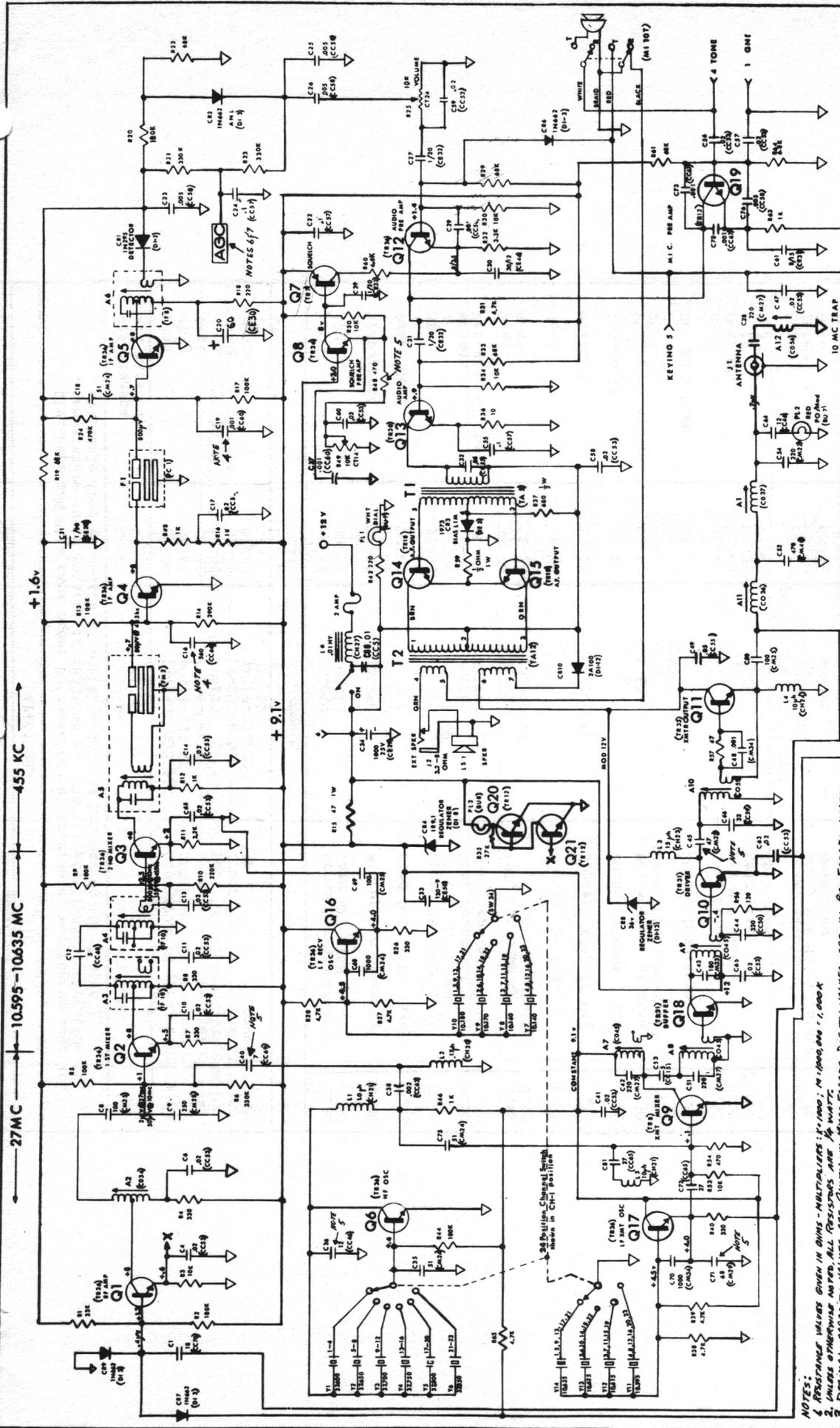
from touching the wraparound at that point. If grounded, feedback may result.

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

Ray Dashner

Ray Dashner
Customer Service Mgr.

RD:rt



SCHEMATIC of the TRAVELLER

Drawn by G. N. ROSSANO DATE 12 12 67

W. V. HARGREAVES

COURIER COMMUNICATIONS

A SUBSIDIARY OF WHITTAKER CORP.

439 FREELINGHUYSEN AVE NEWARK, N. J. 07114

Phone No. 241 3600

Q1 thru Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22
RCA	40245	40332	40081	40081	40083	40332	40315	40350	40350	40345	40345	40345	40345	40345	40345	40345
Fairchild	2N3638	2N3640	2N3643													
Mitsubi	2SC3558															
JEDEC	2N4124	2N4124	2N3643	2N3643	2N3643	2N3643	2N4124									
cc1 #	TR 36	TR 7	TR 56	TR 8	TR 31	TR 33	TR 36	TR 18								

NOTES:

- RESISTANCE VALUES GIVEN IN OHMS - MULTIPLES 10, 100, 1,000, 10,000, 100,000, 1,000,000.
- VALUES OTHERWISE NOTED, ALL RESISTORS ARE IN K OHMS.
- DECIMAL CAPACITANCE VALUES ARE GIVEN IN MICRO FARADS. DIGITAL VALUES ARE IN PICO FARADS UNLESS NOTED; ELECTROLYTIC CAPACITOR VALUES ARE GIVEN IN MICRO FARADS ALONG WITH APPROPRIATE M.U.C.
- NOT USED IN SOME UNITS.
- THE VALUE OF THIS COMPONENT(S) IS DETERMINED AT TIME OF TEST AND MAY DIFFER FROM THE NOMINAL VALUE SHOWN.
- IN AT MIC. Q1 BASE ARE FOR -1.0V AT A.C.C. T.A.
- IN AT Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31, Q32, Q33, Q34, Q35, Q36, Q37, Q38, Q39, Q40, Q41, Q42, Q43, Q44, Q45, Q46, Q47, Q48, Q49, Q50, Q51, Q52, Q53, Q54, Q55, Q56, Q57, Q58, Q59, Q60, Q61, Q62, Q63, Q64, Q65, Q66, Q67, Q68, Q69, Q70, Q71, Q72, Q73, Q74, Q75, Q76, Q77, Q78, Q79, Q80, Q81, Q82, Q83, Q84, Q85, Q86, Q87, Q88, Q89, Q90, Q91, Q92, Q93, Q94, Q95, Q96, Q97, Q98, Q99, Q100.
- TEMP. MEASUREMENT MODEL 80 SIG. GEN. WITH P.M.P.
- OF BLANKING CAP FOR Q1.
- RCA WV-77E VTYM.
- THIS SCHEMATIC CORRECTS TO PRINTED CIRCUIT BOARD ISSUE: 1.
- ITEMS IN PARENTHESES ARE C.C.I. PART NUMBERS.

PARTS LIST AND SERVICE

COURIER TRAVELLER

Trouble-shooting assistance may be obtained by writing to Courier Communications, Inc. 439 Frelinghuysen Avenue, Newark, New Jersey 07114. Address your inquiry to the attention of the Service Manager. Always state THE MODEL, SERIAL NUMBER AND ISSUE OF SCHEMATIC DIAGRAM TO WHICH THE UNIT WAS BUILT. The schematic issue letter may be obtained from the lower right hand corner of the schematic, from the pictorial, or from the legend on the printed circuit board.

When ordering replacement parts, order by Courier part number as well as description.

REPLACEMENT PARTS LIST				
SYMBOL	COURIER PART	JEDEC PART NUMBER	DESCRIPTION	PRICE
		TRANSISTORS AND DIODES		
Q7	TR7	2N3636	Transistor	\$ 1.50
Q9	TR8	2N3643	"	2.50
Q14, 15	TR16	40250	"	2.60
Q13	TR30	40315	"	1.50
Q16	TR31	2N2102	"	3.30
Q10	TR31	2N2102	"	3.30
Q11	TR33	TR33	Transistor W/MTG/HDW	10.00
Q1-6, 8, 12, 16, 17, 19	TR36	2SC355B	Transistor	.90
Q20, 21	TR12	40232	"	1.00
CR-1	DI-2	IN 295	Diode Detector	.60
CR2, 6, 7, 9	DI-3	IN 662	Diode A.N.L.	.50
CR-4	DI-8	IR 9.1A	Diode Zener 9.1V 10%	2.50
CR-10	DI-12S	2A 100S	Diode Rect. Silicon	1.25
CR-8	DI-13	F663	Diode Zener 36V 20%	1.80
CR-3	RE-2	1973	Rectifier, Bias HM	1.50
CRYSTALS				
Y7	CR140	10.140 MHZ	Crystal Fund.Type	6.50
Y8	CR160	10.160 "	" " "	6.50
Y9	CR170	10.170 "	" " "	6.50
Y10	CR180	10.180 "	" " "	6.50
Y11	CR595	10.595 "	" " "	6.50
Y12	CR615	10.615 "	" " "	6.50
Y13	CR625	10.625 "	" " "	6.50
Y14	CR635	10.635 "	" " "	6.50
Y1	CR3760	37.600 "	" 3rd OVERTONE	6.50
Y2	CR3765	37.650 "	"	6.50
Y3	CR3770	37.700 "	"	6.50
Y4	CR3775	37.750 "	"	6.50
Y5	CR3780	37.800 "	"	6.50
Y6	CR3785	37.850 "	"	6.50
COILS, IF'S, MECHANICAL FILTERS, CERAMIC FILTERS, CHOKES AND TRANSFORMERS				
A2	C034	Red	Coil Rec, RF OUT	.65
A10	C035	Blue	" XMTR OSC DRT	.65
A11	C036	Green	" XMTR INPUT	.50
A1	C037	Yellow	" REC	.50
A7, 8, 9	C045	Orange	" XMTR.MIX.BUFF	.65
A6	IF-8	Yellow	XFMR, IF, 455KHz DET	1.25
A3, 4	IF-10	Green	" " 10.7 MHz	1.00
A5	FM-2	Blue	Filter, Mech. 455 KHz	3.95
F1	FC-1	Blue	Filter, Ceramic 455 KHz	.90
L-2	CH-20		Choke HF OSC u7,uH	.25
L1, 5, 7	CH-21		Choke, OSC, Trap 1.0uH	.25
L-3	CH-23		Choke, XMT De-Coupling 15uH	.40
L-6	CH-27		Choke Filter .01 Hy	1.65
T1	TA-5		XFMR, Audio Driver	1.60
T2	TA-12		XFMR, Audio Output	2.00
CAPACITORS				

Disc caps and Mica caps order by capacitance, tolerance, working voltage and temperature compensation, if applicable. State type. (This information is available from schematic pictorial and/or is printed on the discap.)

All Discaps				.25
All Mica Caps				.45
C-34	CE-29	23-750-1000-20C	CAP LYTIC 1000uf 20WVDC	2.70
C-33	CE-50	8-500-120-9C	120uf 12WVDC	.70
C-61	CE-31	8-250-8-15T	8/10uf 15WVDC	.40
C-21, 27, 31, 39	CE-32	CT-105	1uf 35WVDC	.90
C-62	CE-45	12-250-2 50T	2.0uf 50WVDC	.50
C-30	CE-46	9-312-30 12T	30 50WVDC	.50
GENERAL				
J-1	CN-1	SO-239	Connector ANT	1.20
J-2	CN-19	#42-A	Jack EXT SPKR	.60
Microphone	MI-10T	360-ECI	Microphone Assembly	10.00
Power Cord	LC-8		Cord D.C. PWR. Assby	1.25
SP-1	SP-42		Spkr. 3x5, 3.2 ohm	3.10
Window	DL-15	White	Dial Separator	2.50
Background, Chs.	DL-11	White	Dial Separator Knob	.25
R-49	CT-14	Ser. 200	POT. 10K Squelch	1.25
R-25	CT-24/15	XNS-200-2	" " Vol w/switch	2.50
SW-1	SW-34		Switch, 24 Pos.	11.95
XTALS	SO-25	CS-109-A1	Socket, XTAL, RC, Mtg	.15
Q-9, 10, 11	SO-29		Socket, Trans 3 Pin	.25
PL-1, 2	BU-7	L-5A	Bulb (Grain of Rice)	.50
PL-3	BU-8		Bulf (Grain of Rice)	.50
Bet. PC & Case	IN-5		Shield Insulating	.15
Case	MS-41		Case Assembly	11.50
Bkt, Mtg.	MS-49-K		BKT MTG Handle	2.00
Q-11	MS-23	1101	Heat Sink	.70
Q-18	MS24/45		Heat Sink	.40
BEZEL	MS-31C		Bezel, Finished	6.50
Inlay	MS-32C		Inlay for MS-31C, Black	.70
Q-10	MS-55	6072FX	Heat Sink	.70
Channel SW	KNS-29	Channel	Knob Screened	3.50
Volume Cont.	KNS-2	Volume	Knob, Stamped "v"	1.00
Squelch Cont.	KNS-3	Squelch	Knob Stamped "S"	1.00
Wrench	HS-53		Wrench, Bristol #4	.10
P.A. Transistor	WA-5		Wafer, Mica	.05
RESISTORS				
			1/4 W-carbon-all values	.10
			1/2 W-carbon-all values	.10
			1 W-carbon-all values	.15