SYM	DESCRIPTION	DATE	APPROVED
B	[illegible]		
C	A48177G1-36 ECN# 61947 CHANGED PER MARKED-UP PRINT. R58	11/2/71	

REVISIONS - ORIGINAL ISSUE SYMBOL A

+18V 8 — L4 100 uH — R14 100 — C38 .01 — C14 .01 — T1 — R13 3.9K — Q5 2N2219 — R12 1K — R15 82 — C15 .1

+18V 1

7 → R16 47 → TO PRODUCT DETECTOR → 6

9 → TO FSK DETECTOR → J

11 → SWITCHED 18 V (FOR AGC DISABLE)

R56 100 — L2 100uH — R52 100 — L1 100uH

R3 47 — C5 .01 — R7 100 — C10 .01 — R8 15K — R11 56 — C12 .01 — FL1 8 KHZ — C16 .01 — R17 68

C4 .01 — C9 .01 — +3.3V — Q4 2N2222 — R9 3.3K — R10 150 — C11 .1 — +2.5V

AGC IN 5 — L10 100 uH — C1 .01 — C3 .01 — Q2 2N2222 — Q3 2N2222 — L11 100 uH — C6 .01 — C8 .01 — R4 120 — R2 15K — +7.4V to

C13 .01 — C17 .01 — L5 100uH — C23 .01 — R28 3.9K — T2 — +9V — Q8 2N2222 — R33 39 — C33 .1

WITH 30 uV INTO T3 SHOULD BE ABLE TO OBTAIN THRESHOLD WITHIN RANGE OF R30

R34 5K ATTACK TIME ADJ — C40 .01 — C31 .01 — C34 50 /15V

5 MHZ INPUT — 2 — 1 — 3 — T3 — 3 — 6 — C2 .01 — +2.8V — R55 47 — R25 2.7K — Q1 2N2222 — +7V — R5 150 — C7 .1

Q7 2N2222 — +3.7V — +2.9V — L9 100uH — C24 .1 — AGC ATTACK THRESHOLD — R30 1K

C22 .01 — R27 1K — R29 150

C18 .01 — R18 100 — R19 3.9K — C20 .01 — L8 4.6uH — C21 220pF — Q6 2N2222 — +3.7V — +2.9V — R20 1K — R21 150 — C19 .1

AGC IN REF 4 — +8.2V

+18V 8 — L3 100 uH — C26 .01 — L6 100 uH

AGC DECAY TIME: FAST 13 — R50 4.7K; MED N — R35 1K; SLOW 12 — R36 27K; P (T.C. RETURN)

C25 .01 — T4 — 3 — 4 — 1 — 2 — CR7 IN60 — +3.7V — R22 3.9K — Q9 2N2219 — +2.9V — R23 1K — R26 82 — C27 .1 — R51 56

C29 .01 — R32 390 — R31 150

C30 10 → AM OUT TO MODE SWITCH

.05 VP-P MIN FOR .01 VRMS MODULATED 30% INTO T3 WITH AGC OFF

OPTIONAL SQUELCH CIRCUIT — Q13 2N2222 — R39 4.7K — Q11 2N2907 — Q12 — R40 6.8K — R38 22K

INCREASE TO AT LEAST +13V WITH 10 db INCREASE IN INPUT SIGNAL ABOVE THRESHOLD WITH NO CONNECTION TO PIN 5.

R54 18K — R53 1K — +.2V NO MUTE — Q14 2N2222 — CR1 IN3064

P/O TB1 — V — V — XA5 — LISTEN THRU — 10K — 8.2K — 16 — 16

17 → MUTE (GND TO MUTE)

CR2 IN3064 — T → TO RF GAIN CONTROL

18 → +18V

R43 220 — Q15 2N2222 — C39 .01 — CR3 — R44 10K

R → TO AF GAIN CONTROLS

U → TO SQUELCH CONTROL

18 → +18V

R48 390 — +8.2V — S → AGC REF

CR5 IN959B — C37 .1

[redacted]

E45[illegible] SHEET

NOTES:
1. A [ ] DC VALUES MEASURED WITH 11 MEG Ω INPUT DMM REFERENCED TO GROUND.
2. ( ) AC VALUES OR RESPONSE TO SPECIFIED INPUT.
3. ALL VALUES ARE APPROXIMATE.
4. UNLESS OTHERWISE SPECIFIED: ALL RESISTANCE IN OHMS ±5% CAPACITANCE IN MFD ±10%

SOURCE CODE	UNLESS OTHERWISE STATED	CONTRACT NO.	NATIONAL RADIO COMPANY, INC. MELROSE, MASSACHUSETTS
1 - MFG BY N.R.C.I.	DIMENSIONS ARE IN INCHES	DRAWN R. [illegible] 11/1/71	DRAWING TITLE: SCHEMATIC 2ND IF/AGC A5
SC - VENDOR ITEM - SEE SOURCE OR SPEC CONTROL DWG	INCLUDING PLATING IF REQ'D	DATE	
SD - N.R.C.I. STD DWG	TOLERANCES ON FRACTIONS / DECIMALS / ANGLES	CHECKED	
	DO NOT SCALE THIS DWG.	MECH. ENG.	
DASH / NEXT ASSY / USED ON	MATERIAL	ELEC. ENG.	SIZE E / CODE IDENT. NO. 42498 / DRAWING NUMBER E48340 / REV C
APPLICATION	FINISH	APPROVED - N.R.C.I.	SCALE / SOURCE / SHEET
		APPROVED - CUSTOMER	

WORKMANSHIP TO BE IN ACCORDANCE WITH N.R.C.I. SPECIFICATION A34170
N.R.C.I. FORM 39107 - C