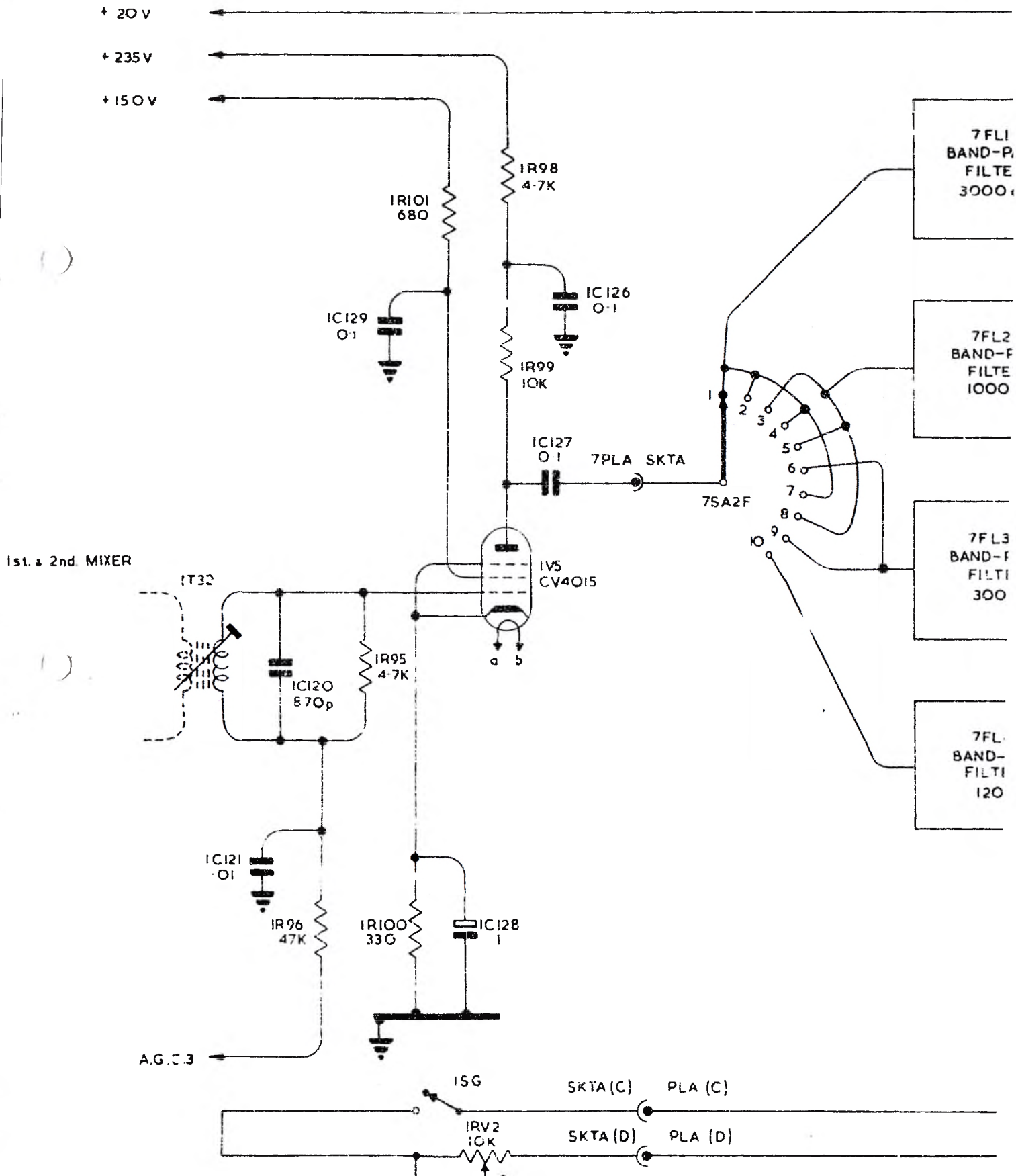
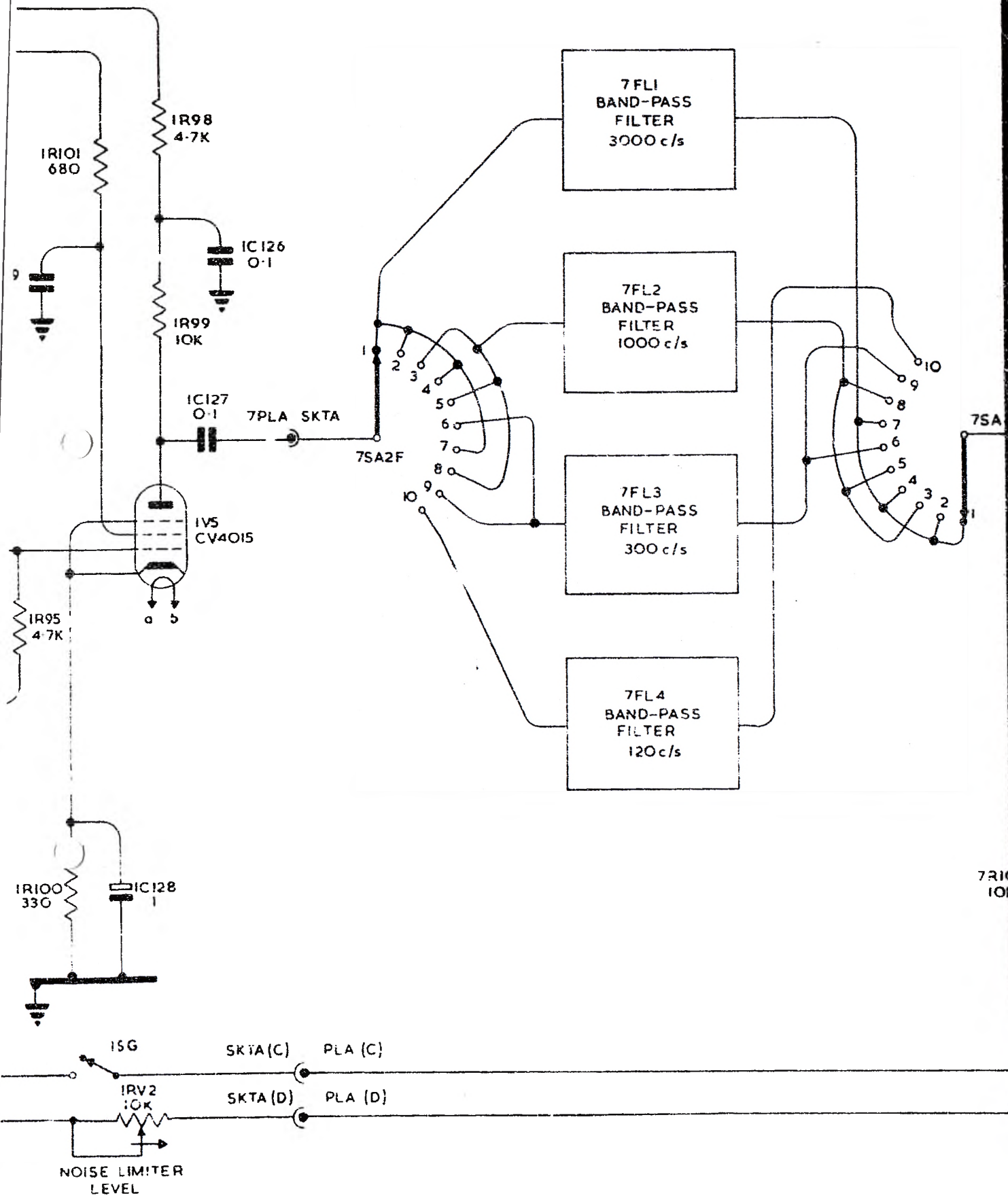


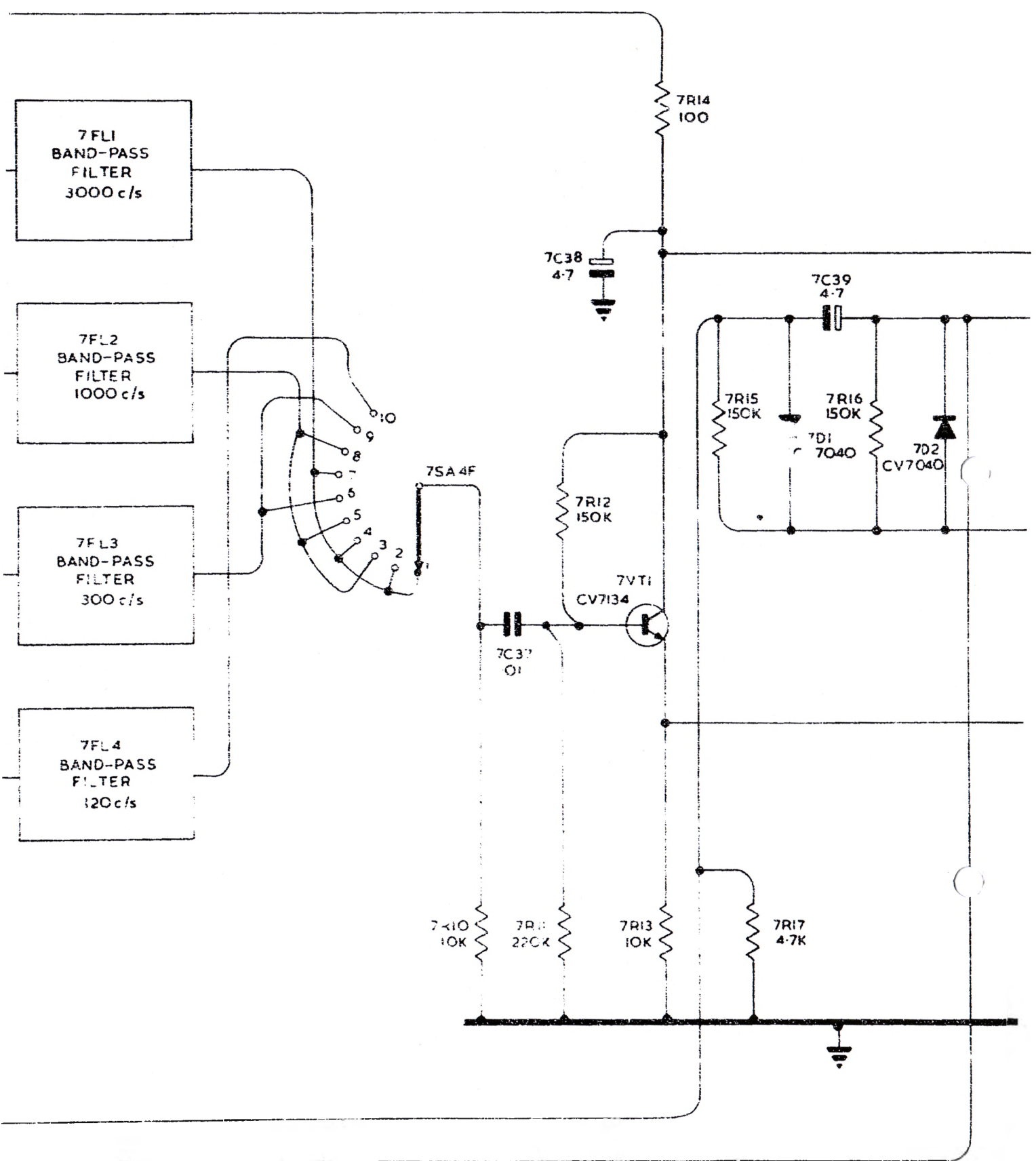
* CAPACITORS IC14, 29, 43, 58, 73 AND 130 ARE GANGED

1st. I.F. AMPLIFIER

PRE NOISE

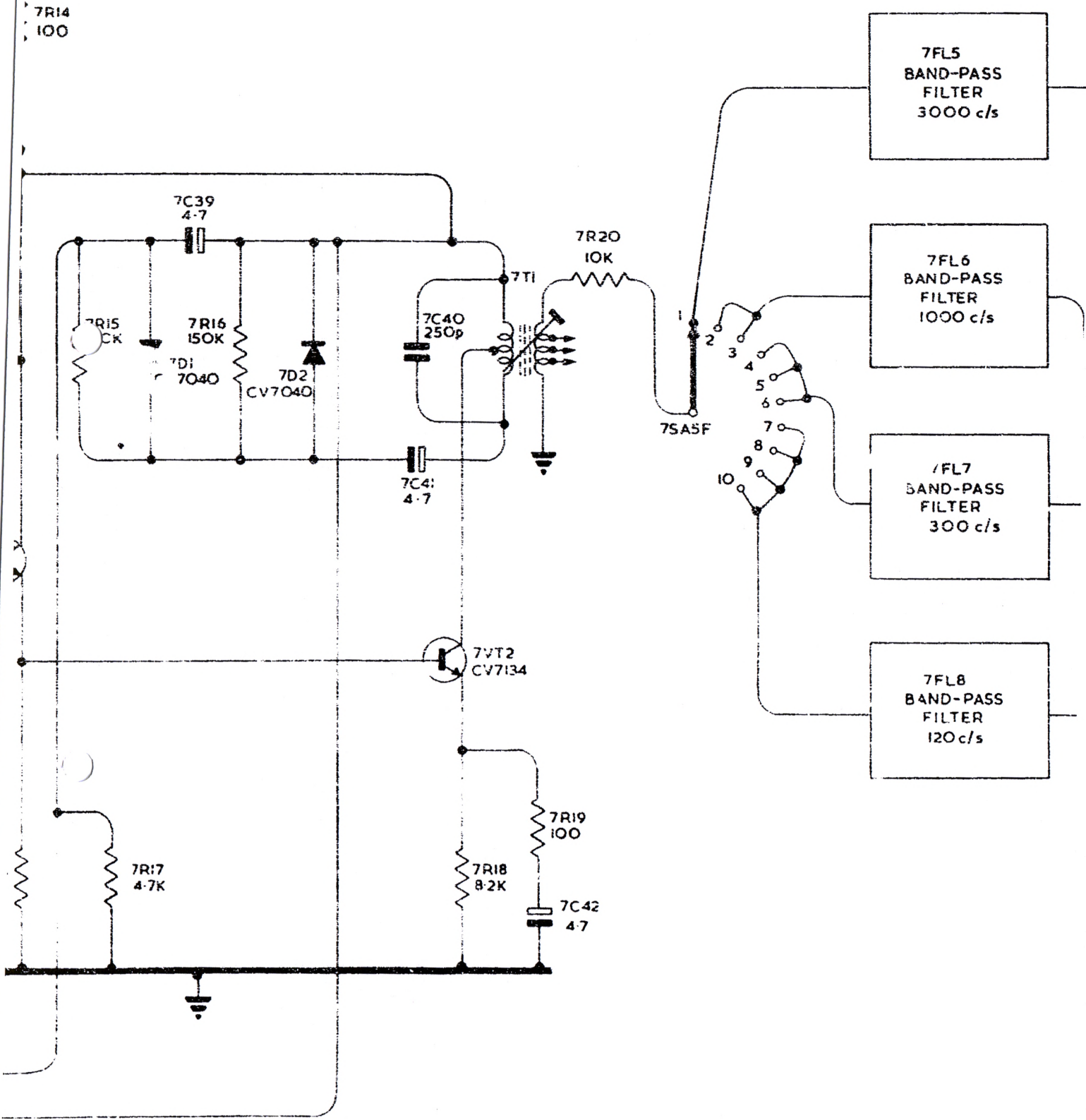


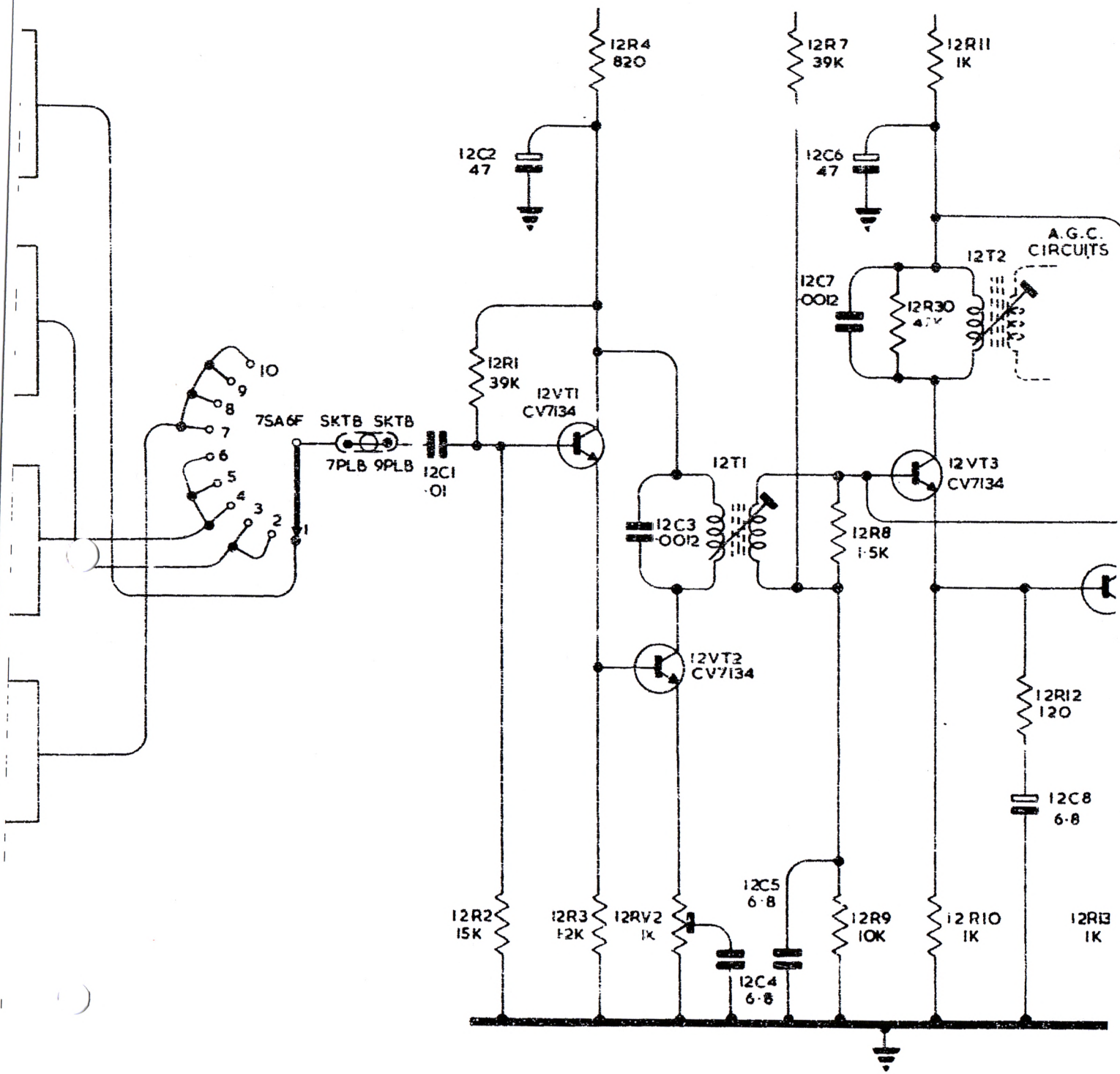




NOISE LIMITER

POST NOISE FILTERS





I.F. AMPLIFIER

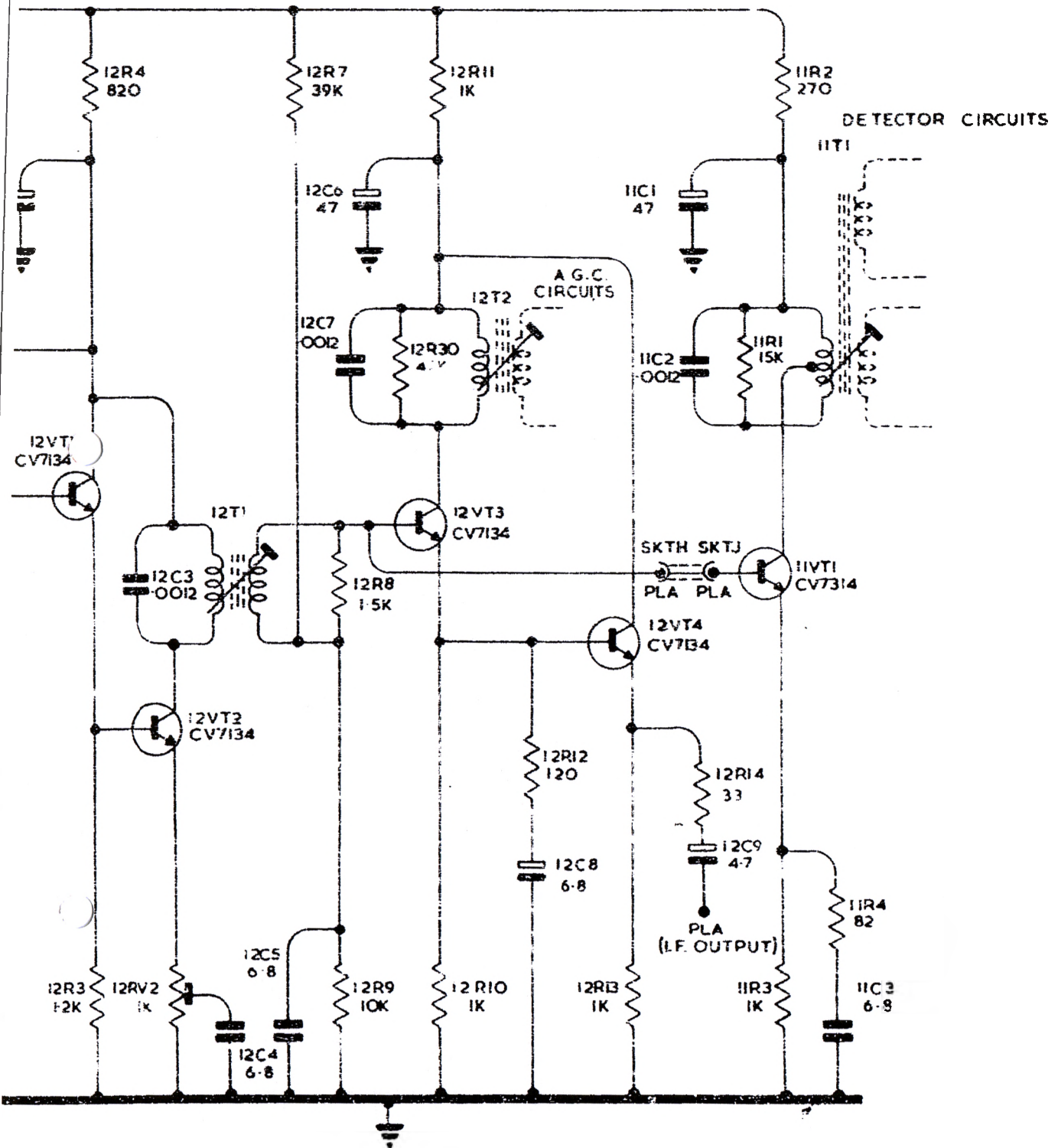
SIMPLIFIED FUNCTIONAL DIAG

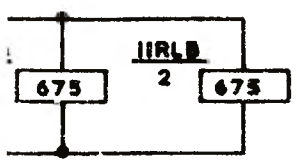
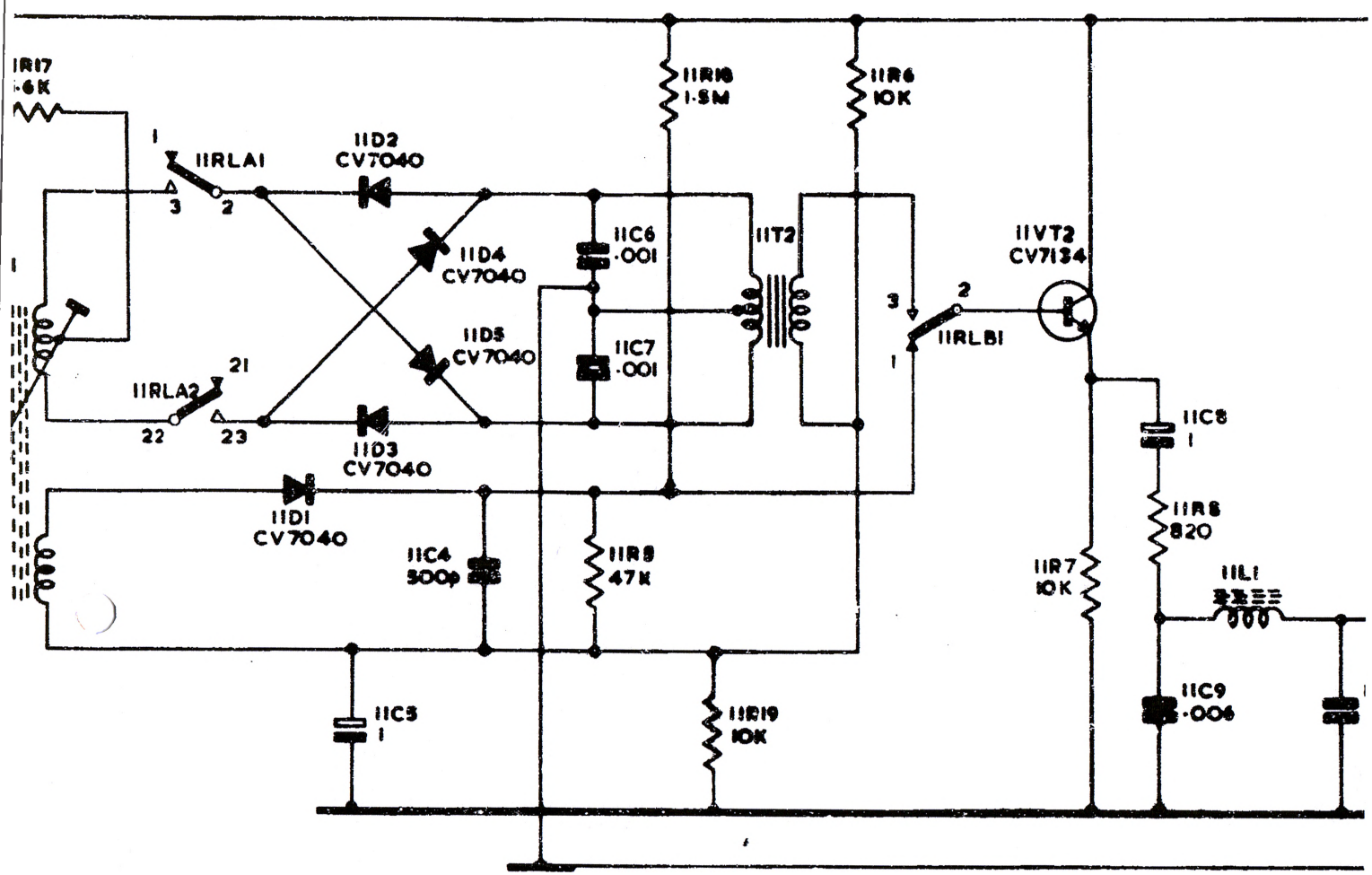
FOLLOWER

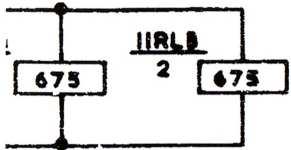
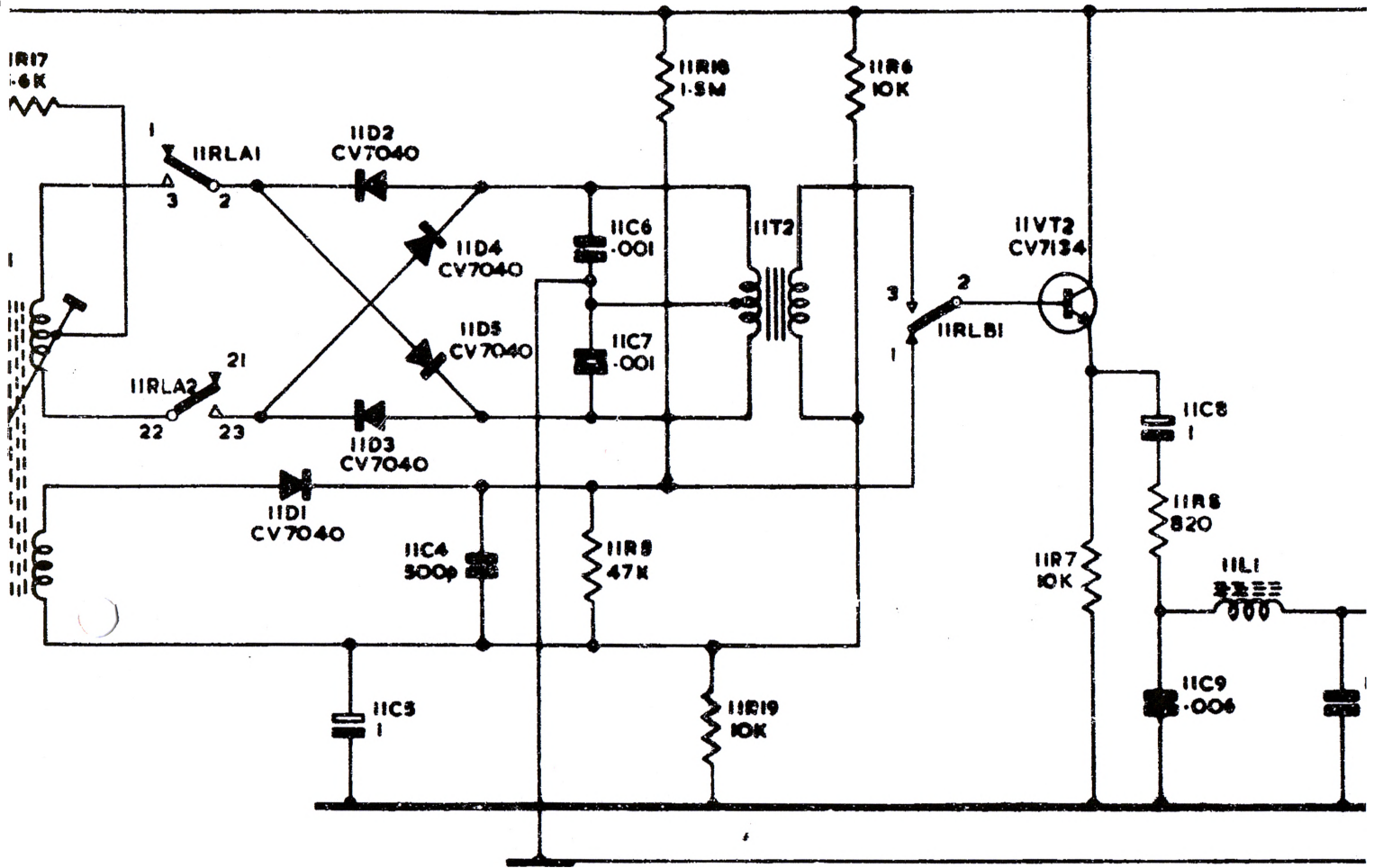
2nd I.F. AMPLIFIER

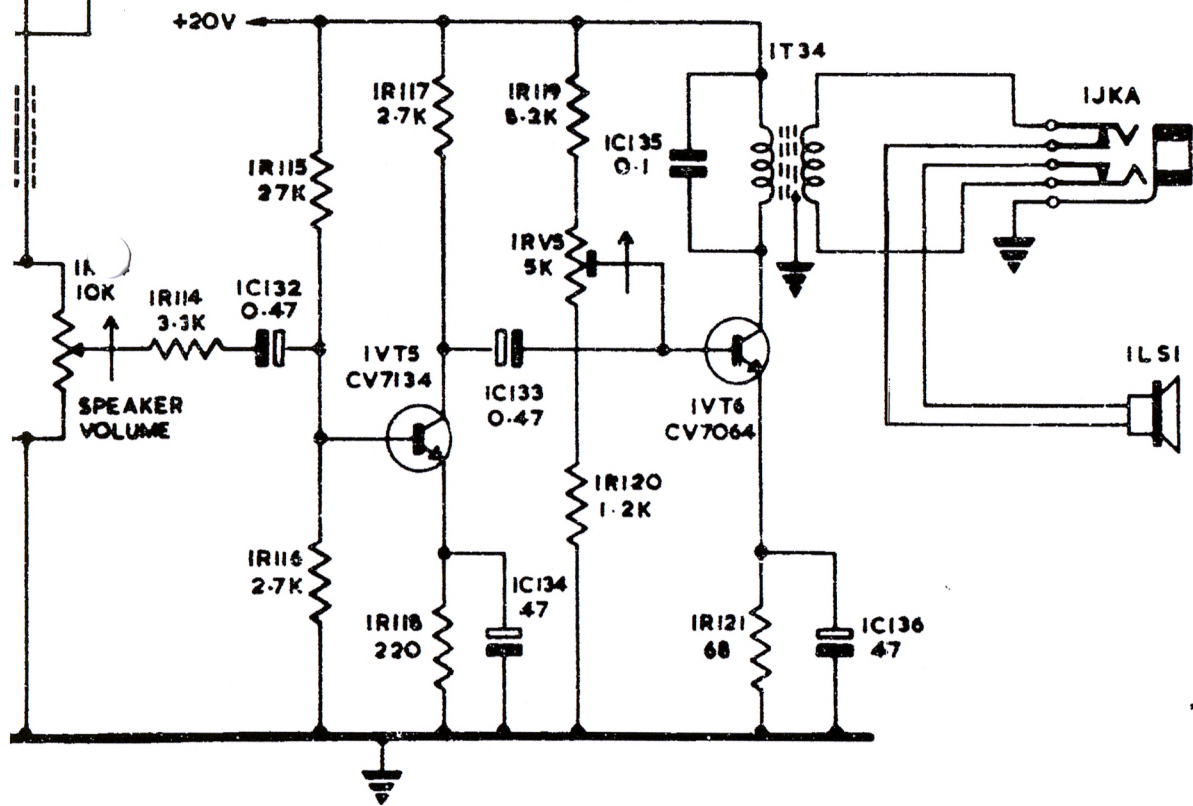
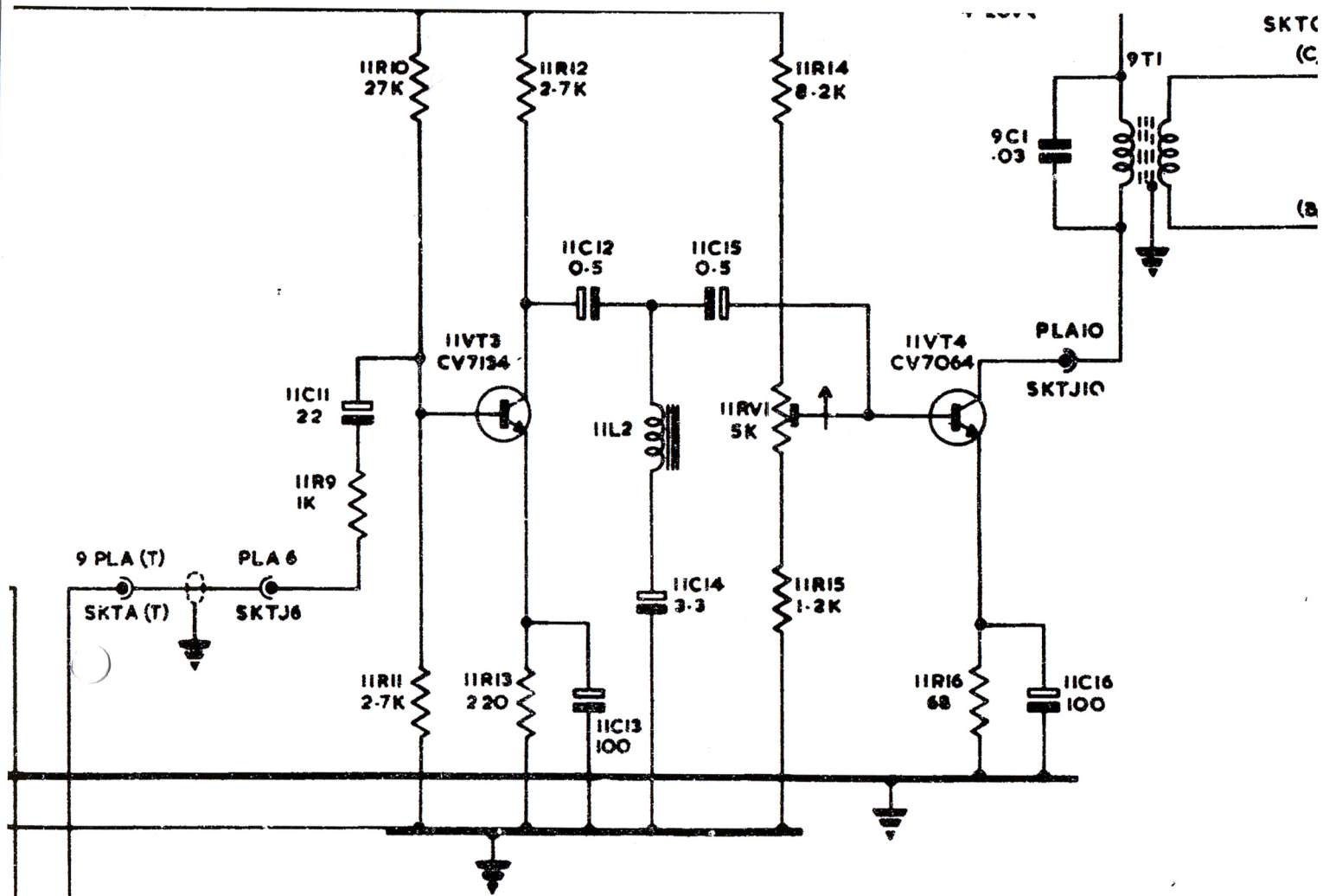
A.G.C./I.F. AMPLIFIER

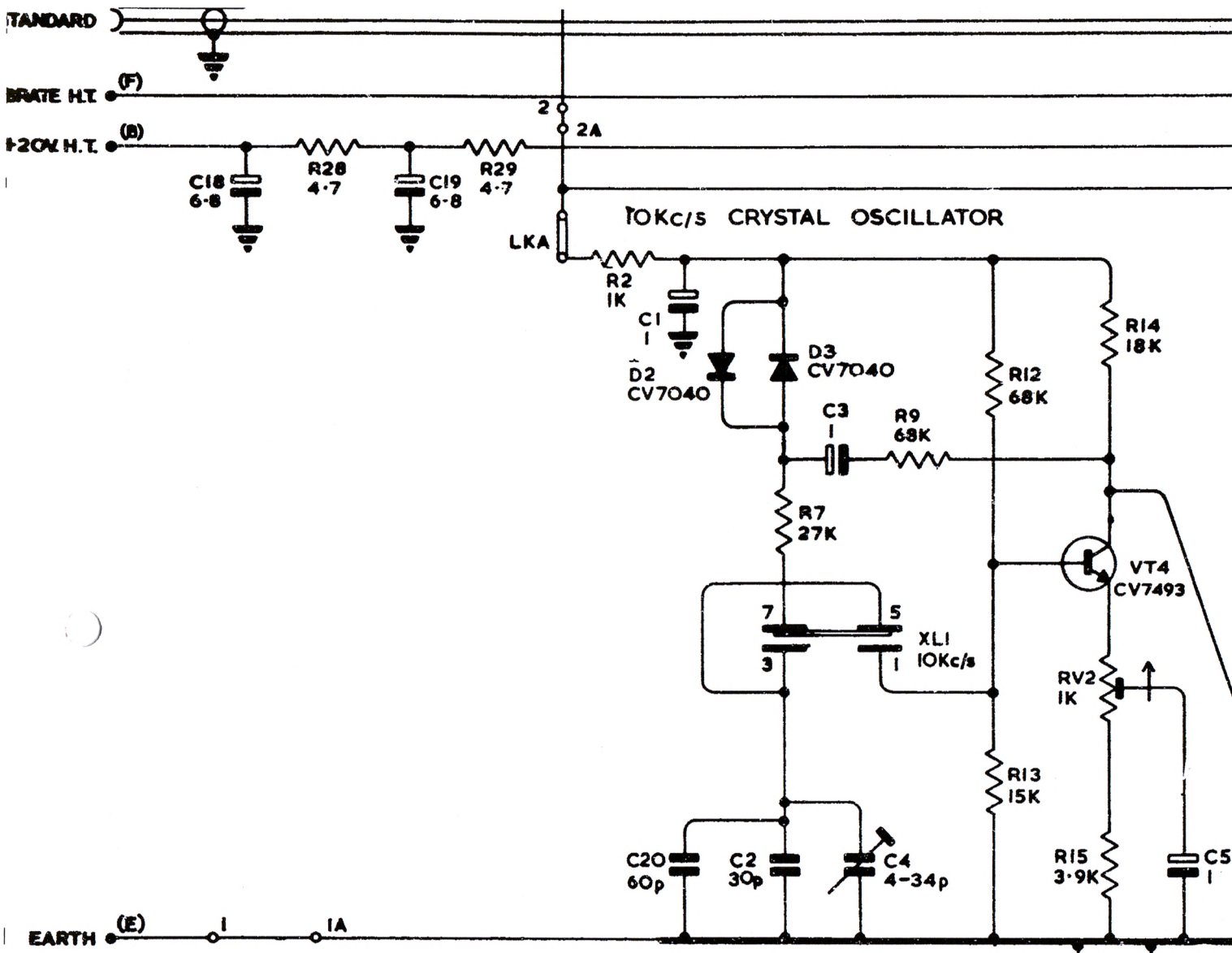
3rd I.F. AMPLIFIER



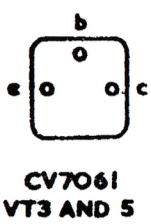
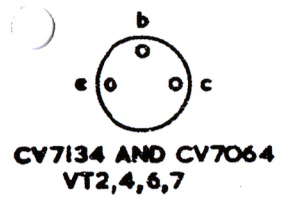
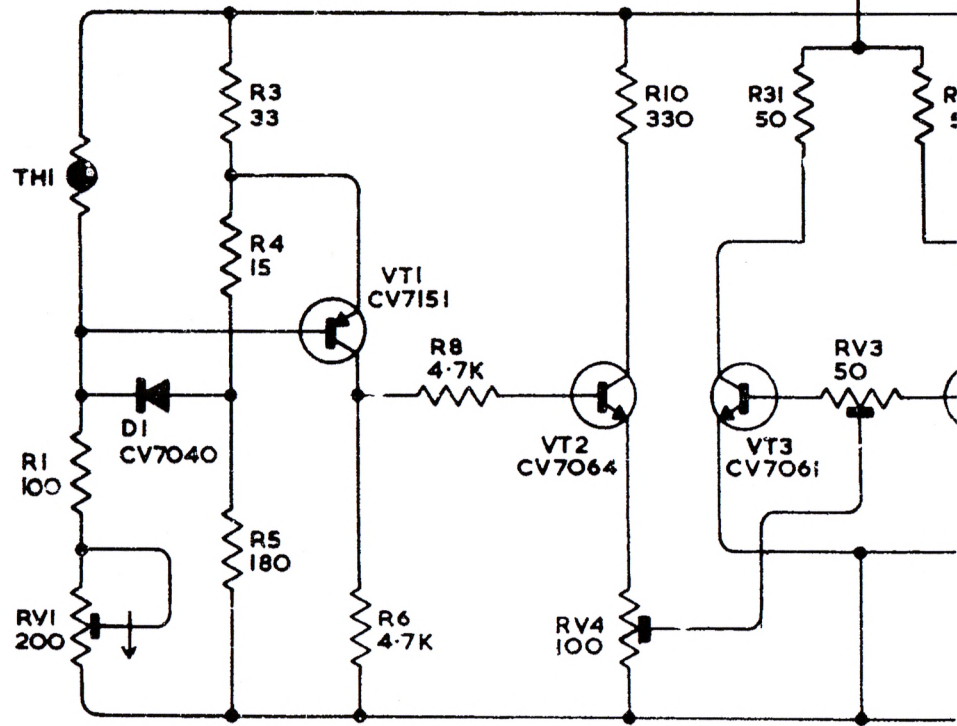








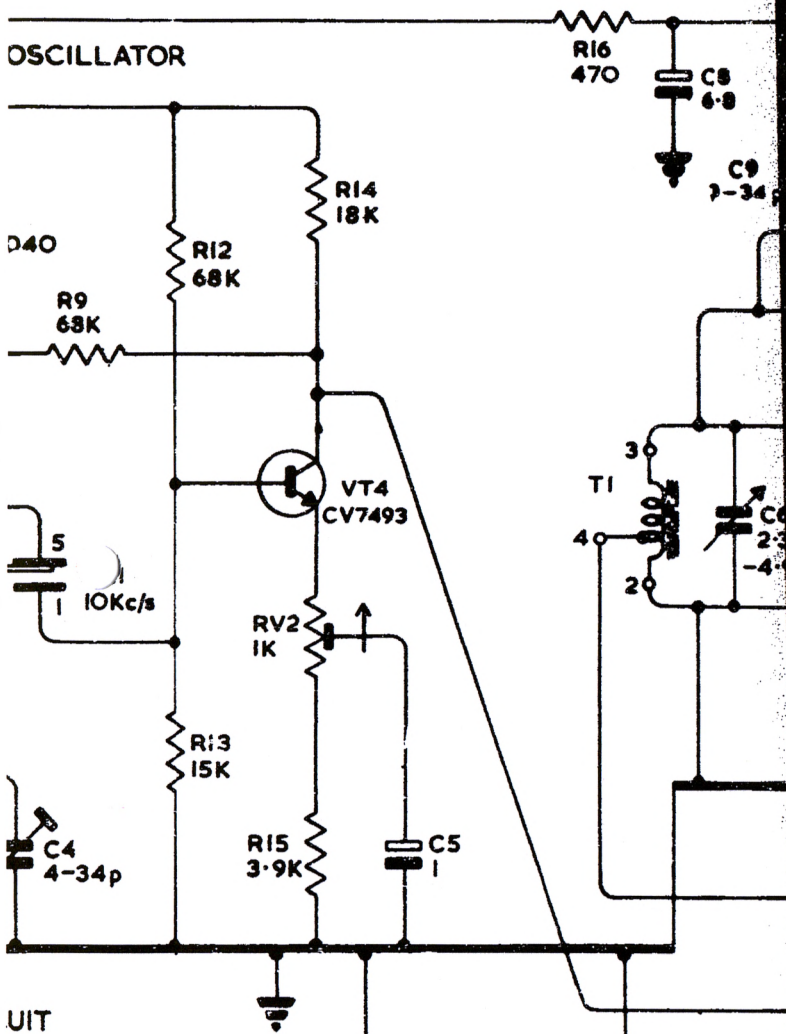
OVEN CONTROL CIRCUIT



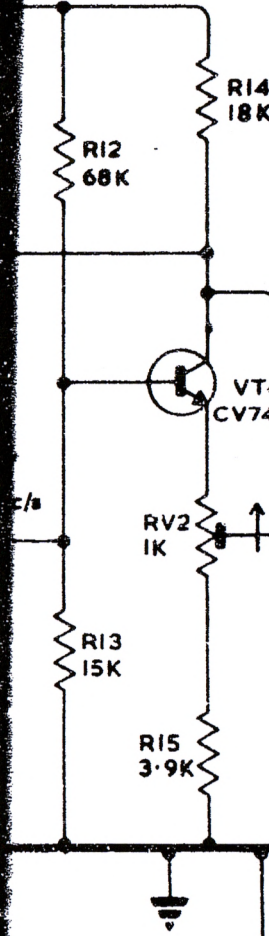
H VIA 9R6 (C)
 ASSEMBLY

- 55 V (D)

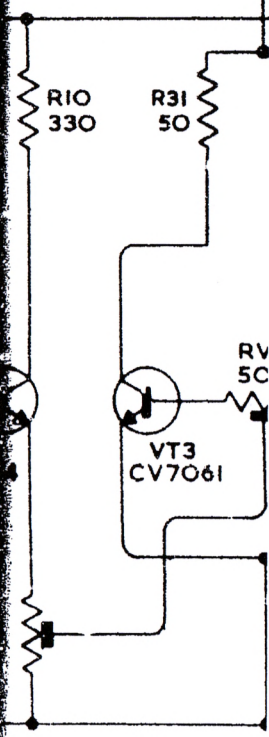
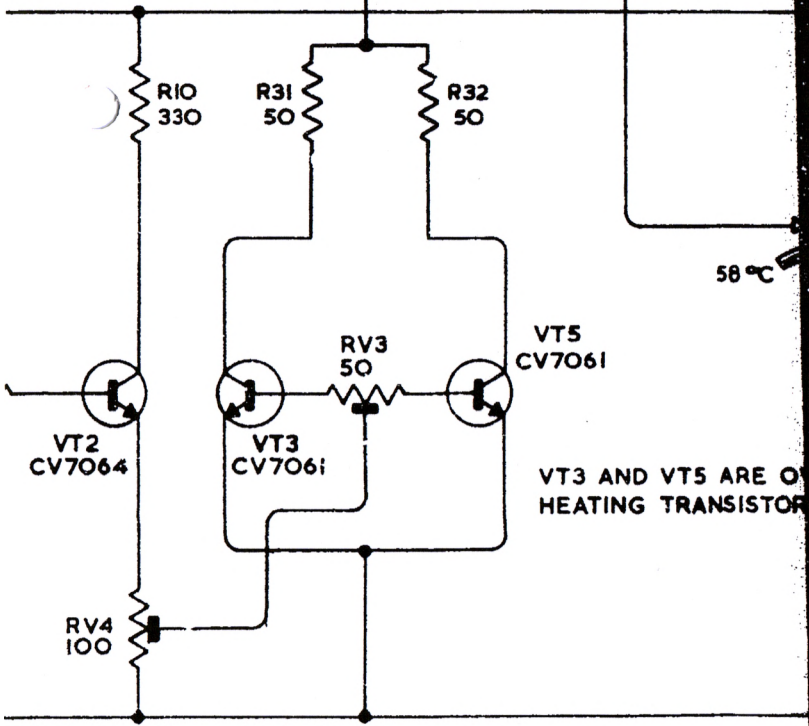
OSCILLATOR



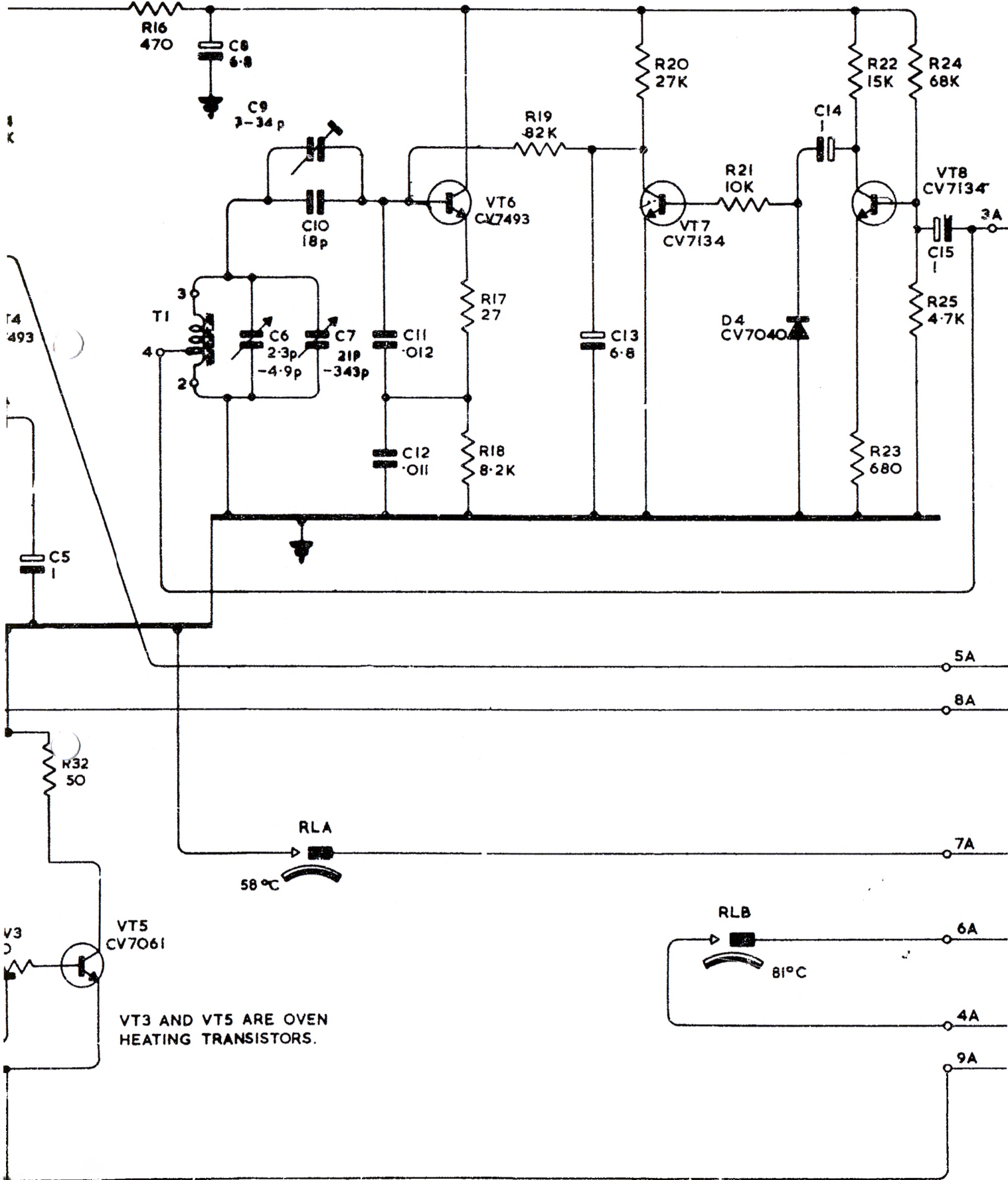
OSCILLATOR



UIT

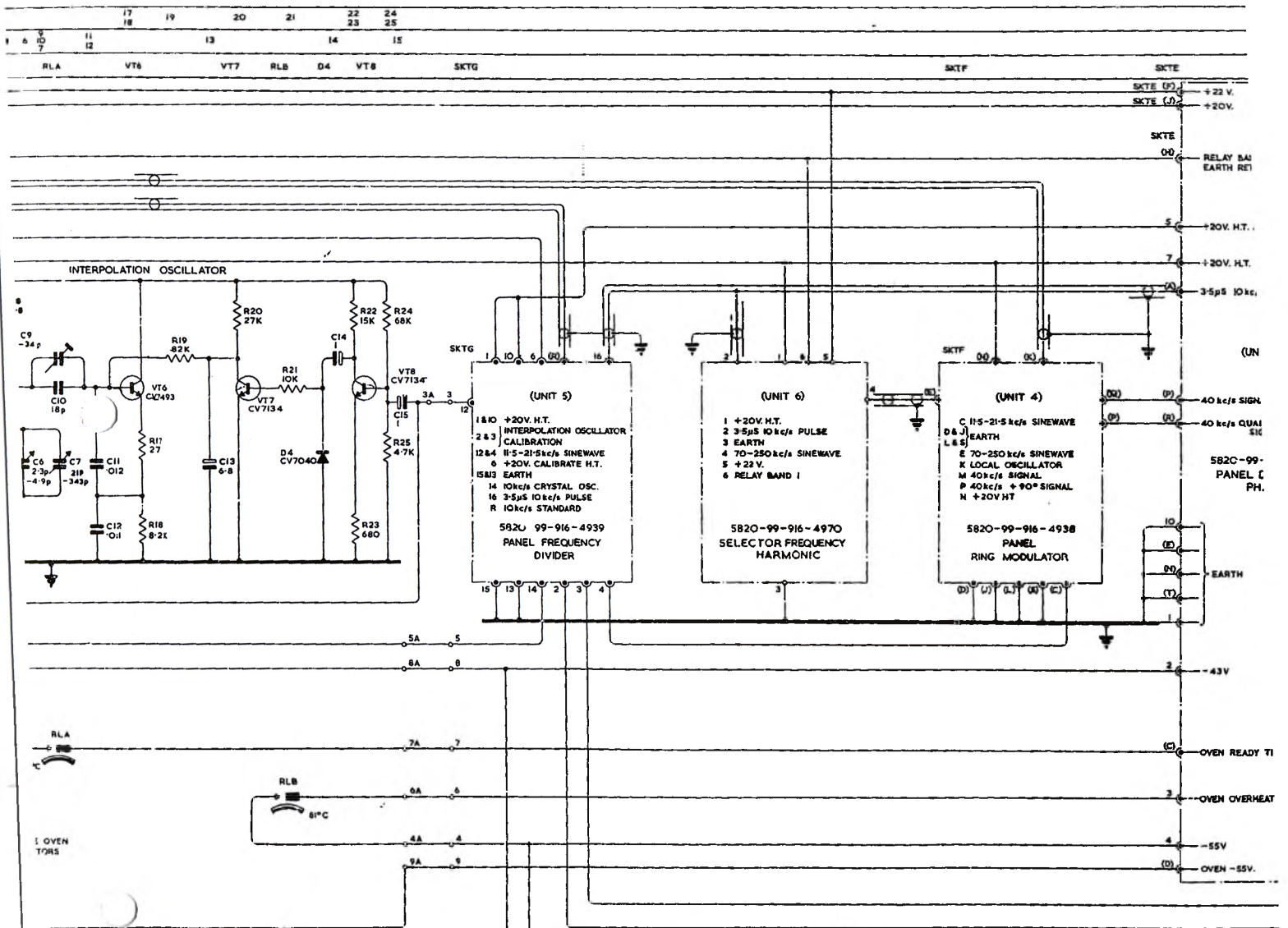


INTERPOLATION OSCILLATOR



VT3 AND VT5 ARE OVEN HEATING TRANSISTORS.

RESTRICTED



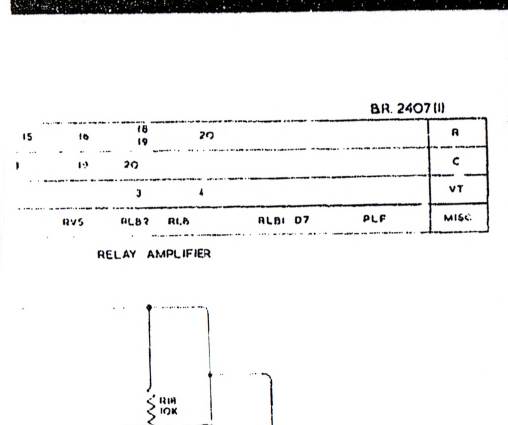
MOD	RECORD
1	2
3	4
5	6
7	8
9	10
11	12

SYNTHESISER SUB-ASSEMBLY FIG.1.2.1

5820-99-916-4911 CIRCUIT DIAGRAM (CJD3)

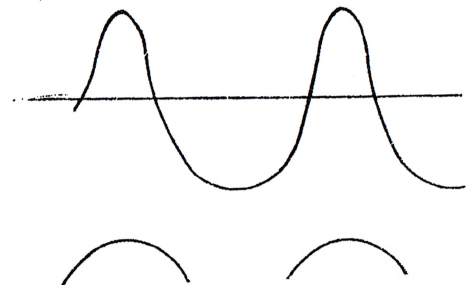
5134

RESTRICTED



Original Sept. 1954

RESTRICTED



Oscillator and the Interpolation Oscillator.

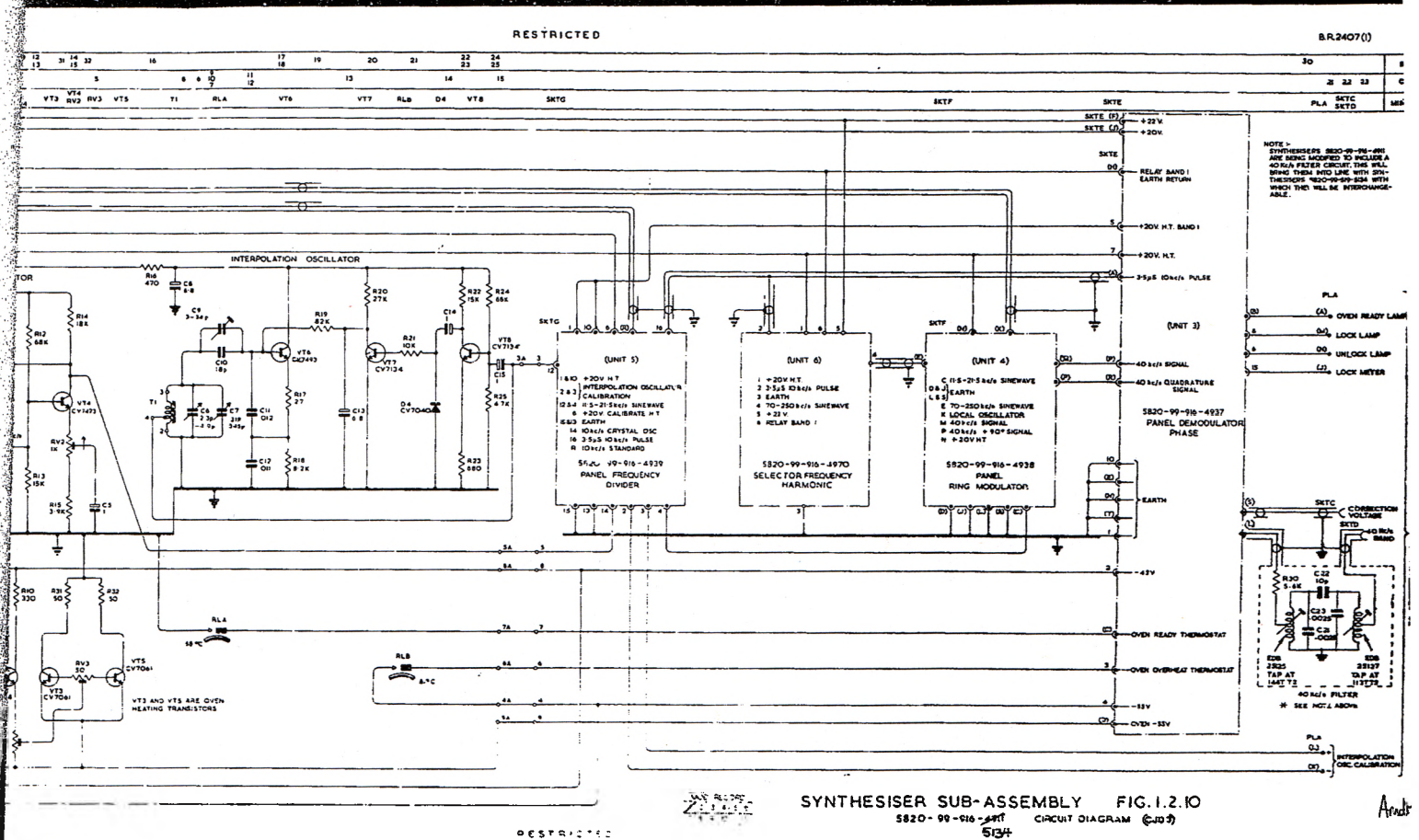
(b) From pin (B) of PLA to:-

RESTRICTED

A8

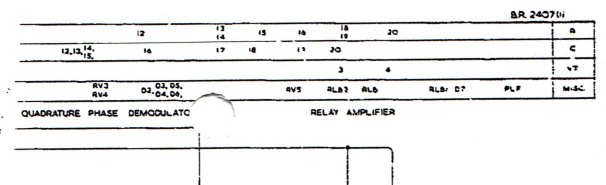
RESTRICTED

A9

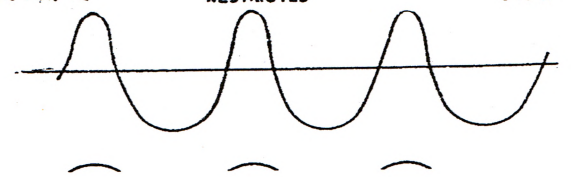


B8

B9



RESTRICTED

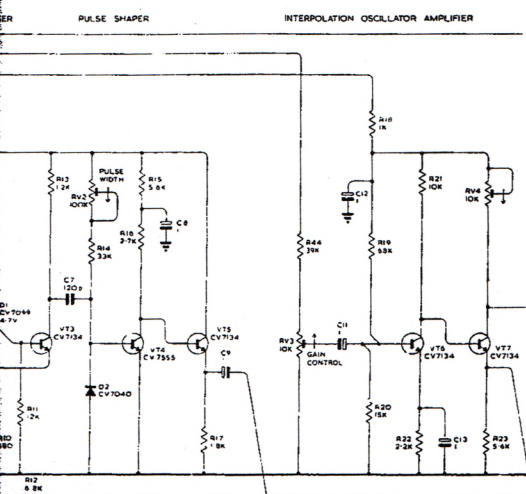
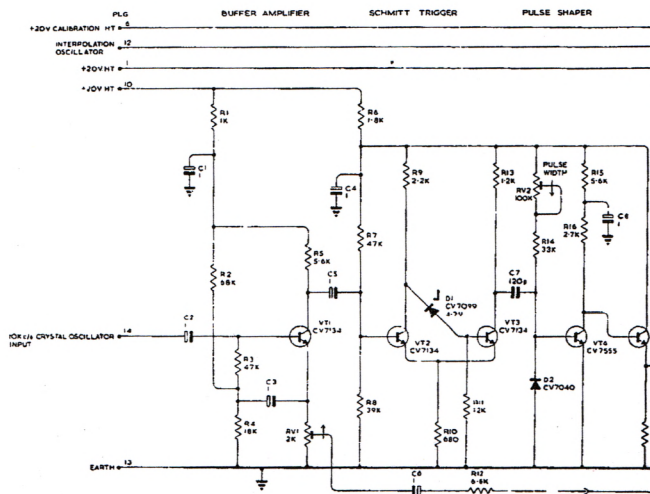


Original Sept 1964

RESTRICTED

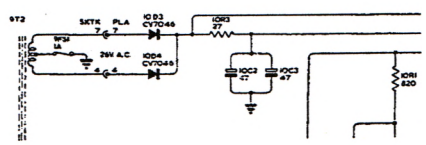
PLG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
VT																	
MISC	PLG																

	11	12	13	14	15	16	17	18	19	20	21	22	23



Change No. 4 October 1971

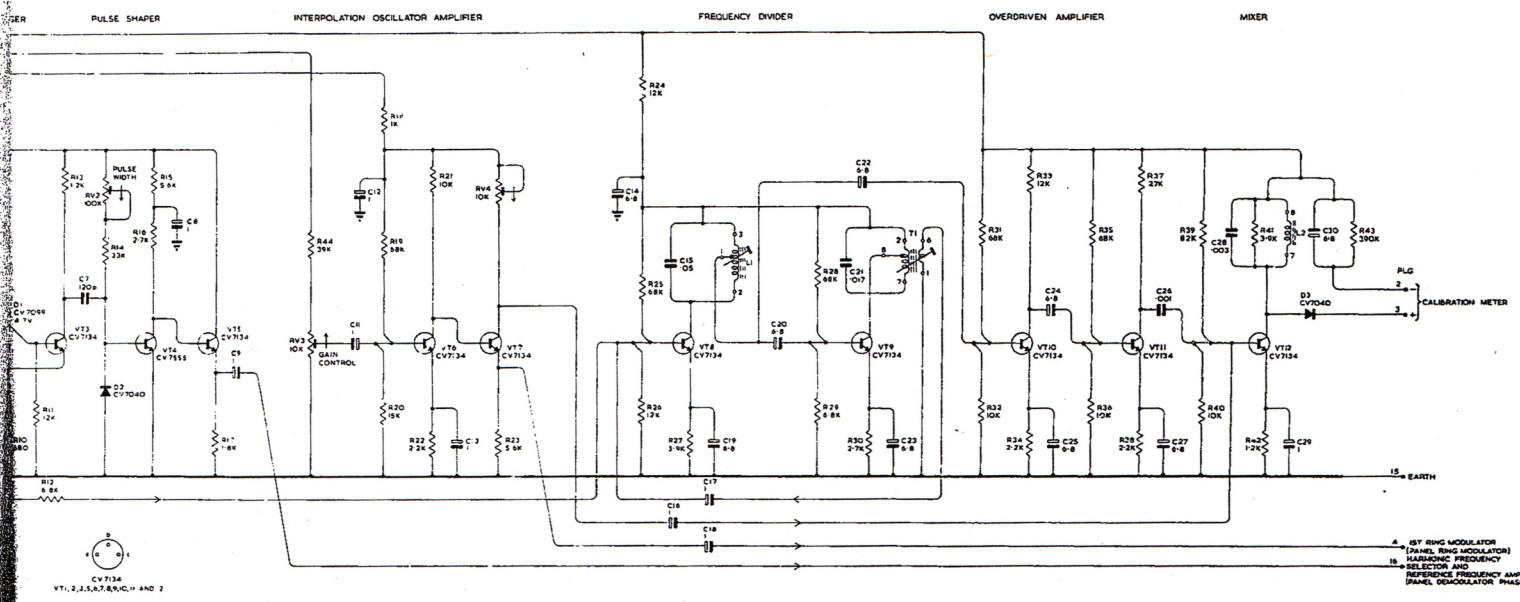
CABINET



RESTRICTED

BR.2407 II

11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	R	
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24,25	26,27	28	29	30													C
																																		VT
																																		PLG
																																		MISC



PANEL FREQUENCY DIVIDER FIG.12.II. CIRCUIT DIAGRAM 5820-99-916-4939

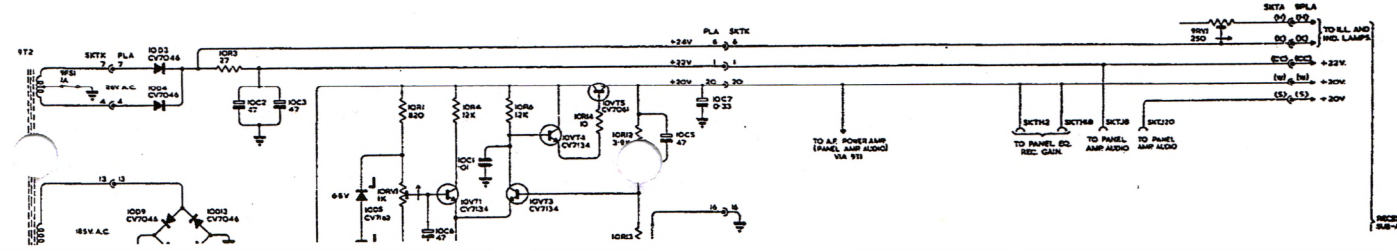
RESTRICTED

B11

B12

RESTRICTED

BR.2407 II

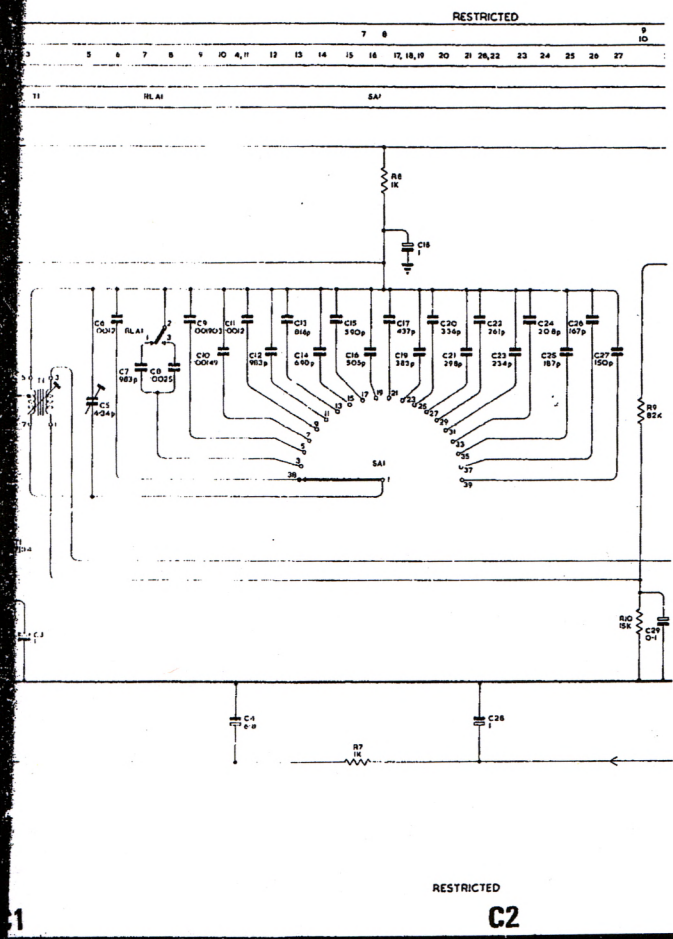
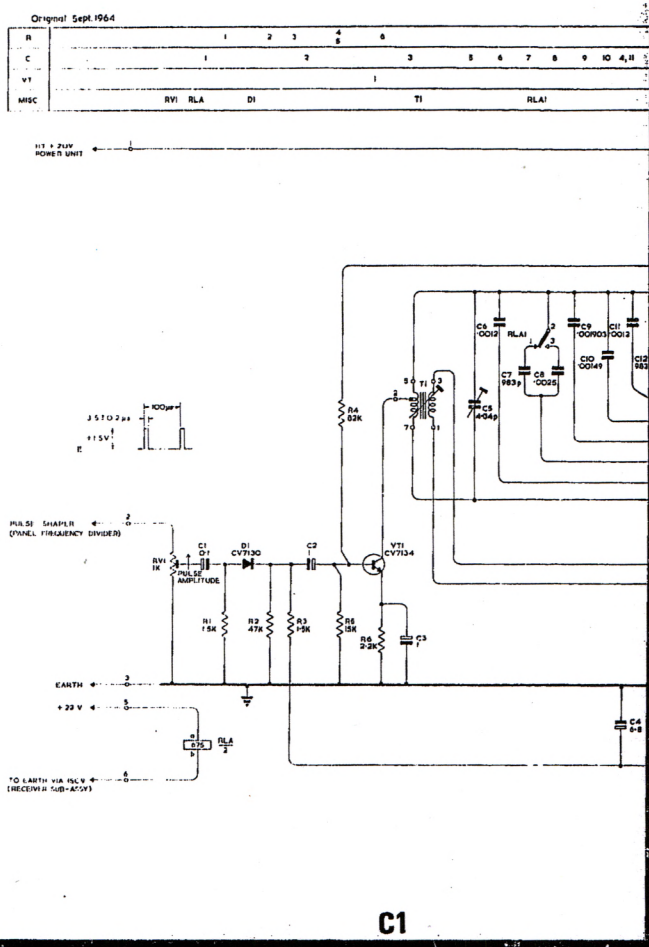


RECEIVER 916-4939

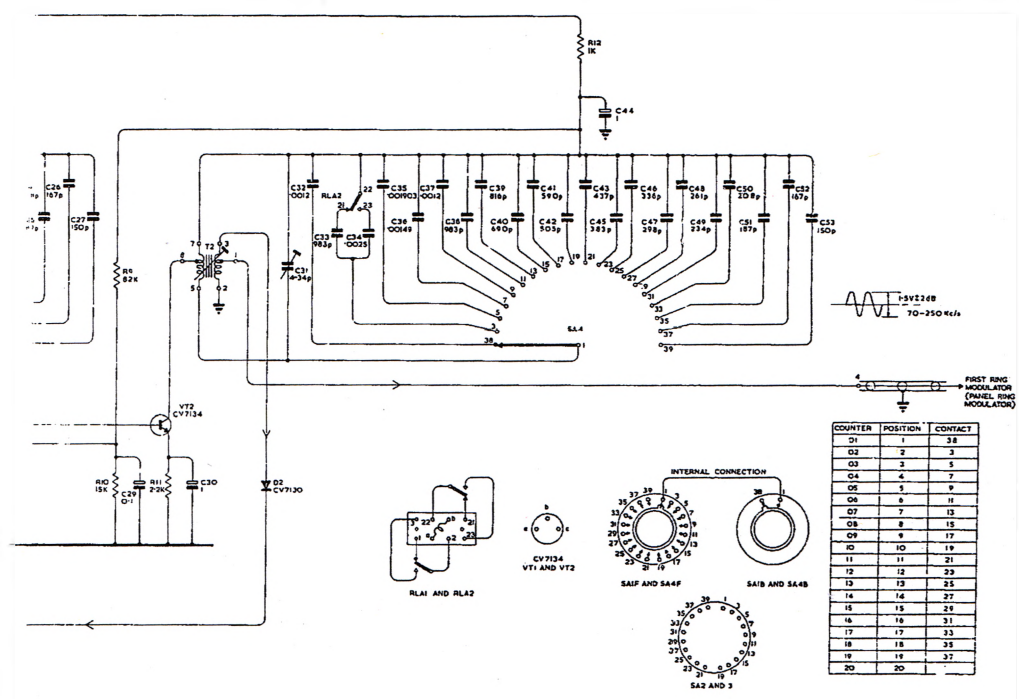
B1

RESTRICTED

B2



B										12										R									
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	C	
T												VT												MISC.					
T2					D2					RLA2					SA4														

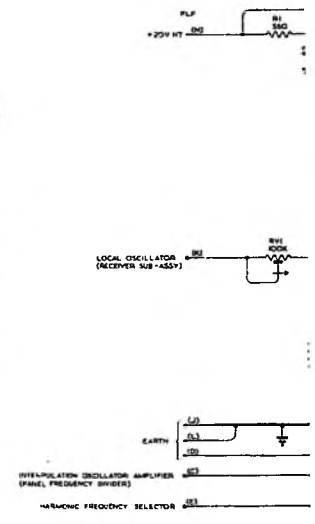


SELECTOR FREQUENCY HARMONIC FIG. 1.2.12.
CIRCUIT DIAGRAM 5820-99-916-4970

C3

Original Sept 1964

R	
C	
VT	
MISC	PLF



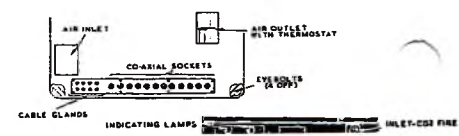
CBH 474

B.R. 2407(1)
Chapter 3

RESTRICTED

51 Original
Sept. 1964

MINET
MENT N.S.N. 5820-



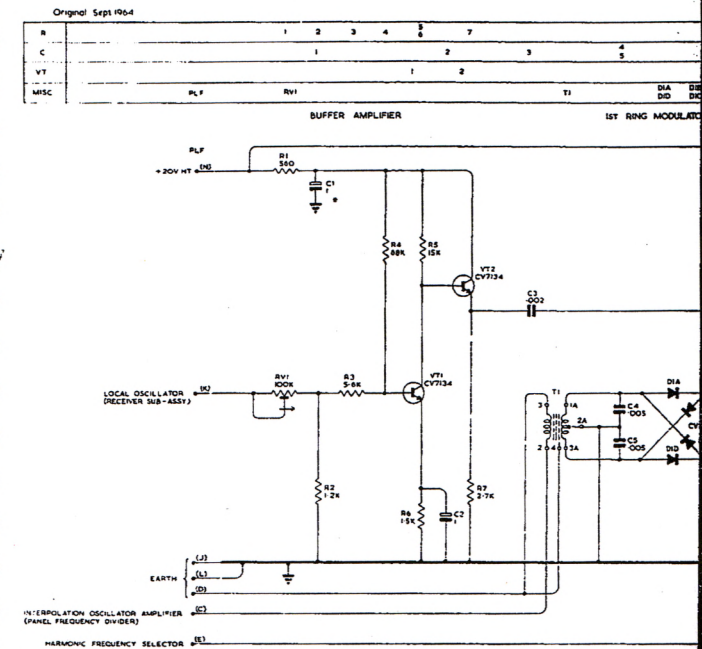
FIVE-
CABINET, ELECT

R
C
VT
MISC

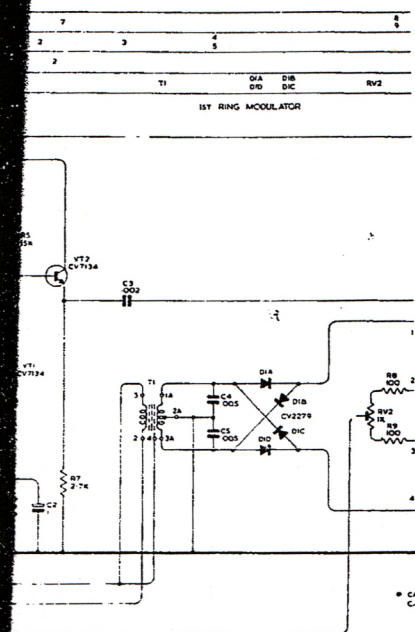
FIRST RING
 → MODULATOR
 (PANEL RING
 MODULATOR)

CONTACT
18
7
5
7
9
11
12
15
17
18
21
23
27
29
31
33
35
37

1.2.12.



C4



C4

51 Original Sept. 1964

RESTRICTED

B.R. 2407(1) Chapter 3

CHAPTER 3
 FIVE-RECEIVER CABINET

CABINET ELECTRICAL EQUIPMENT NSN 5820-

99-916-1905

General

RESTRICTED

Plates screwed to steel angle strip which is bolted provide baffle trays between adjacent receivers (P1)



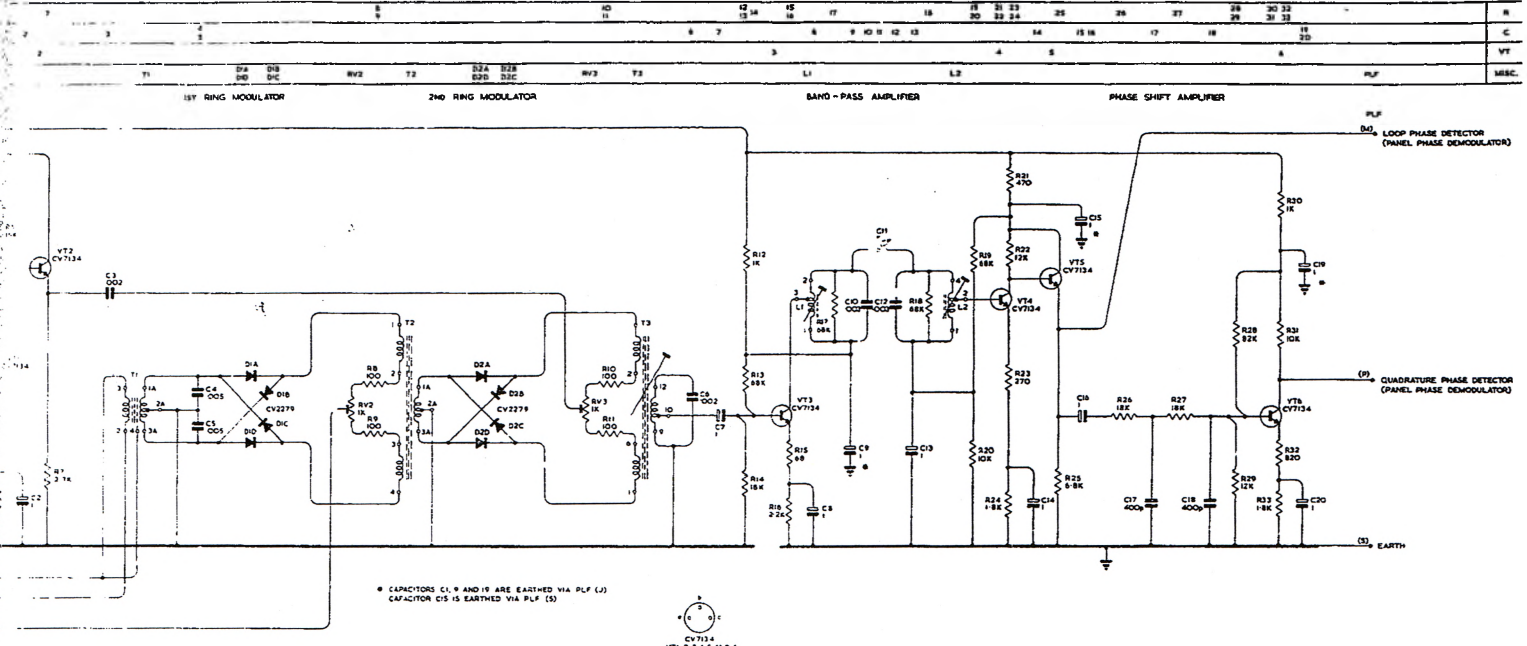
B5

RESTRICTED

B6

RESTRICTED

BR. 24C7 B



PANEL RING MODULATOR FIG. 1.2.13.
 SEJO-99-916-4936 CIRCUIT DIAGRAM

RESTRICTED

C4

C5

C6

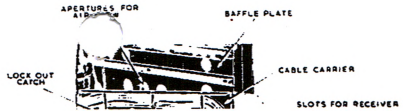
RESTRICTED

52 Original Sept. 1964

RESTRICTED

B.R. Chai

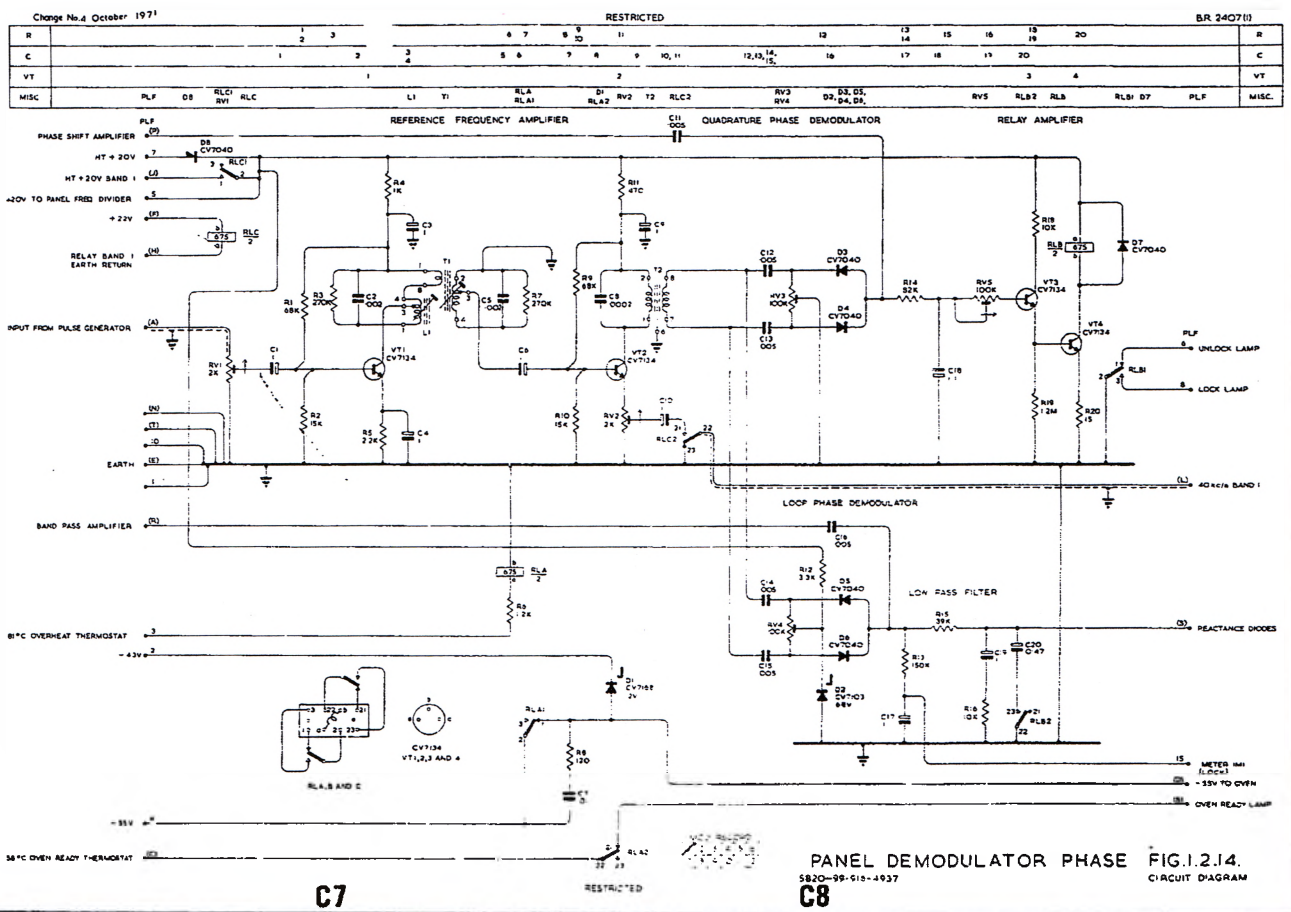
Plates screwed to steel 3/8" x 1/8" strip which is bolted to the sides of the cabinet provide baffle trays between adjacent receivers (Fig.1.3.2).



- (a) ILP1 - in series with the resistor R1 across the supply to the receivers.
- (b) ILP2 - in series with the resistor R2 across the supply to the anti-condensation heaters.

INTERLOCK ANTI-CONDENSATION PREPARATION

10



RESTRICTED

lock-in catches engage with spigots on the fixed members and the receiver is now locked into the cabinet. The lock-in catches also serve to secure the countings when the cabinet is in transit.

Interlock Switches

8. Each of the five receivers is provided with two three-position interlock switches, SA/SB, SP/SE, SQ/SR, SK/SI, and SW/SP for receivers A to E respectively. These switches are mounted on the left-hand side of the cabinet immediately adjacent to the telescopic mounting of the receiver with which they are associated (Fig. 1.2.3). One switch is connected in each line of the power supply to the receiver. They operate as follows:-

- (a) Position 1: Receiver in the closed position in the cabinet

55

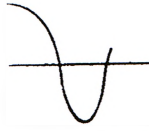
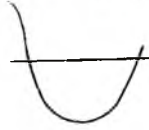
Original
Sept. 1964

RESTRICTED

- (e) I.F. output from each receiver:-
 - (i) Socket SKIM from Receiver A.
 - (ii) " SKI " " " B.
 - (iii) " SKTK " " " C.
 - (iv) " SKIL " " " D.
 - (v) " SKTM " " " E.

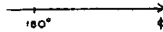
- 11. The seven cable glands are utilised as follows:-

E. R. 2.57(1)



(

OF LAG OF ERROR SIGNAL
REFERENCE SIGNAL

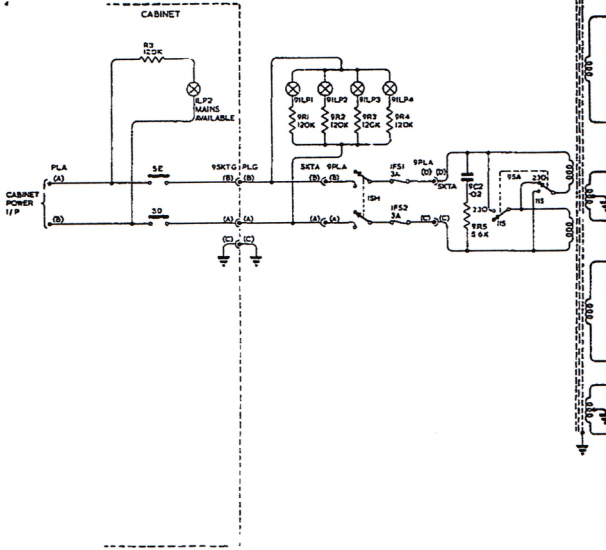


WAVEFORMS FIG. 1.2.15

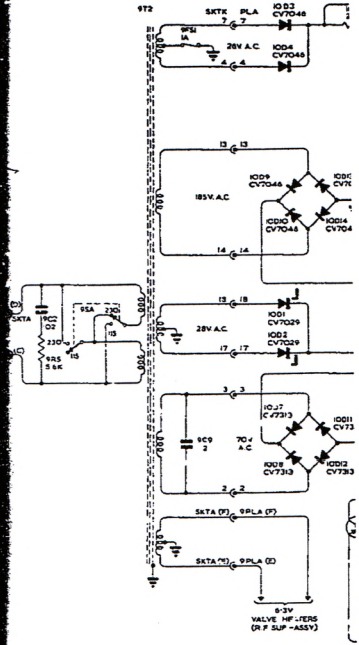
SKTS)

-)

not which enter and



C10



Original
Sept. 1964

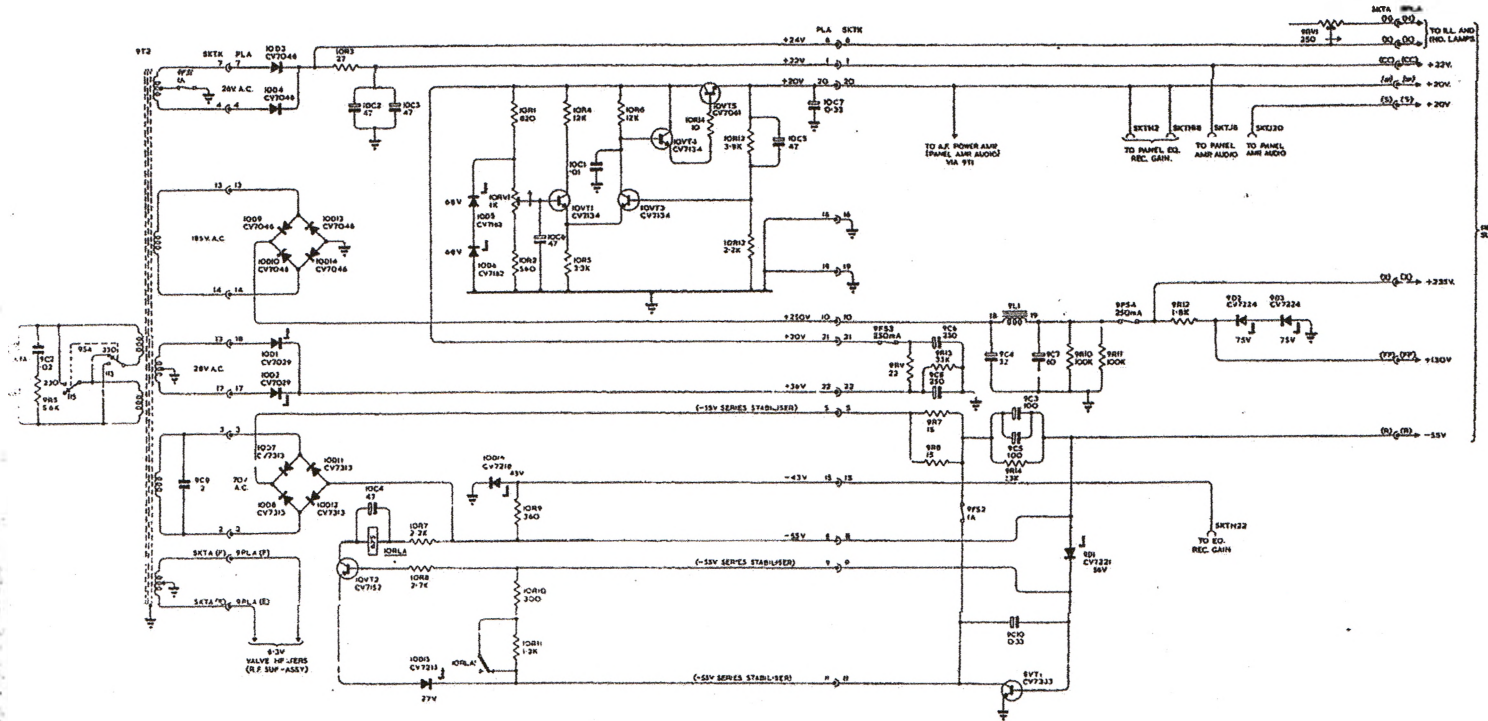
RESTRICTED

B.R.2607(1)
Chapter 3

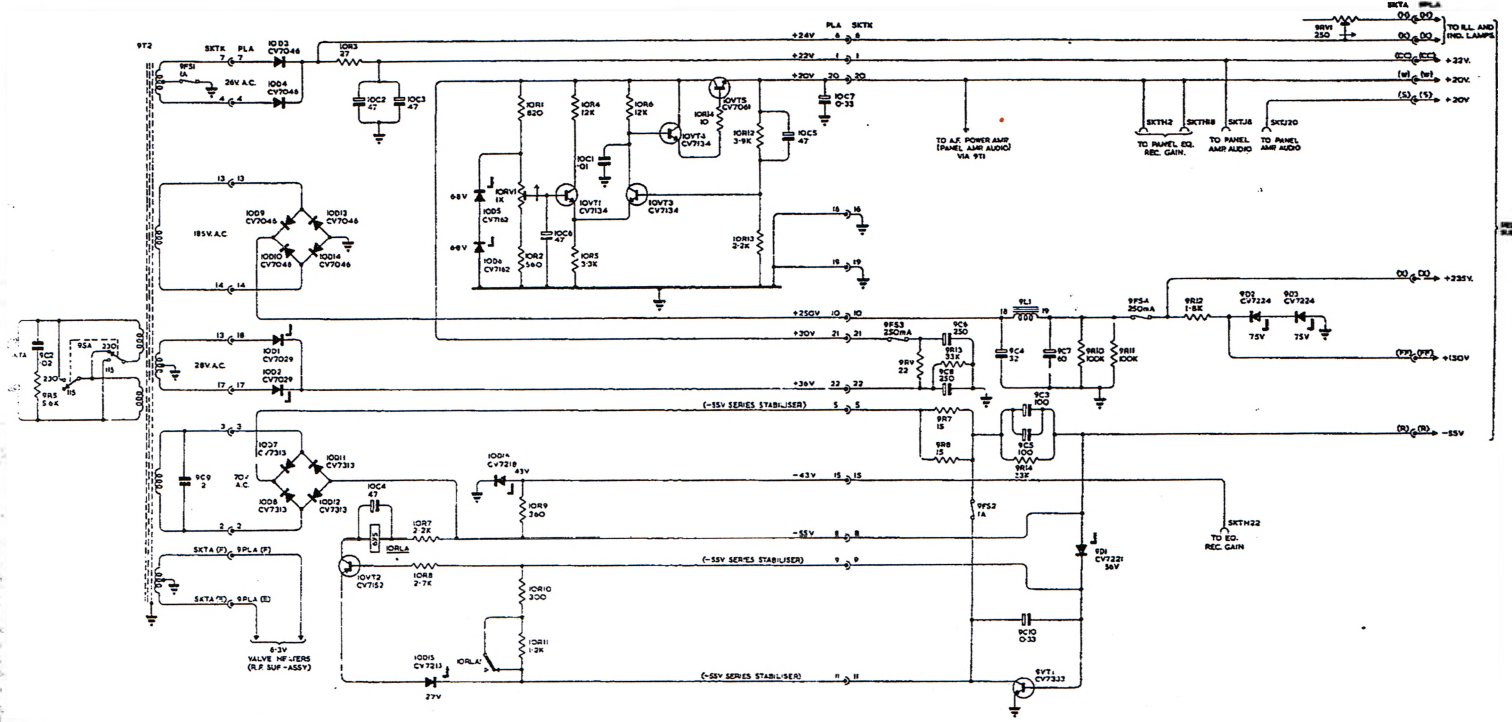
- (ii) Receiver B (Socket SKTC Power Supply) via plug B9PLC to T.S.4.
- (iii) " C (" " " ") " " C9PLC " T.S.5.
- (iv) " D (" " " ") " " D9PLC " T.S.6.
- (v) " E (" " " ") " " E9PLC " T.S.7.

14. The final output of the receivers from the cabinet via the cable glands are taken from two multiple D.E.E.terminal blocks T.S.8 (receivers C,D and E) and T.S.9 (receivers A,B and C) to which the terminal blocks T.S.2,4,5,6 and 7 are connected (Para.13(c)).

15. The connections to the anti-condensation heaters HPL1 and HR2 and the connections to the thermal relay R1A in the fire warning circuit both terminate in soldered ends.



POWER SUPPLY FIG. I.2.16.
SIMPLIFIED FUNCTIONAL DIAGRAM



POWER SUPPLY FIG.1.2.16.
SIMPLIFIED FUNCTIONAL DIAGRAM

RESTRICTED
C11

C12