

4RK GRACEMERE. (ROCKHAMPTON.)  
CIRCUITS OF A TRANSMITTER AND PHOTOS.

TX. NOT KNOWN. LOCATION. NOT KNOWN. 4RK.

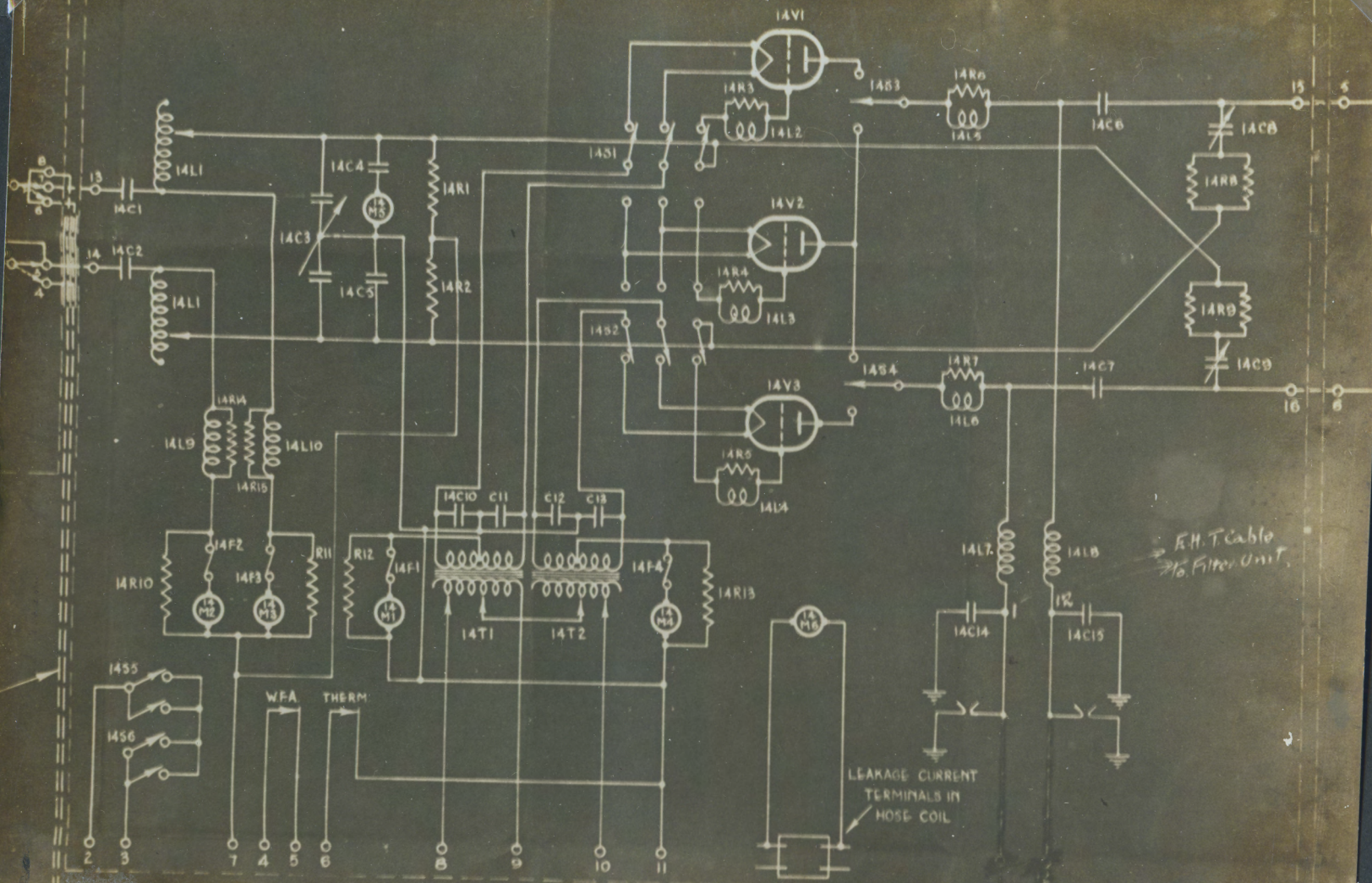
DATE. NOT KNOWN, BUT VERY EARLY. THE FIRST.

\* COULD BE 4RK ROCKHAMPTON AT GRACEMERE.

BOOK SUPPLIED BY MR. KEV. CONWAY. YES.

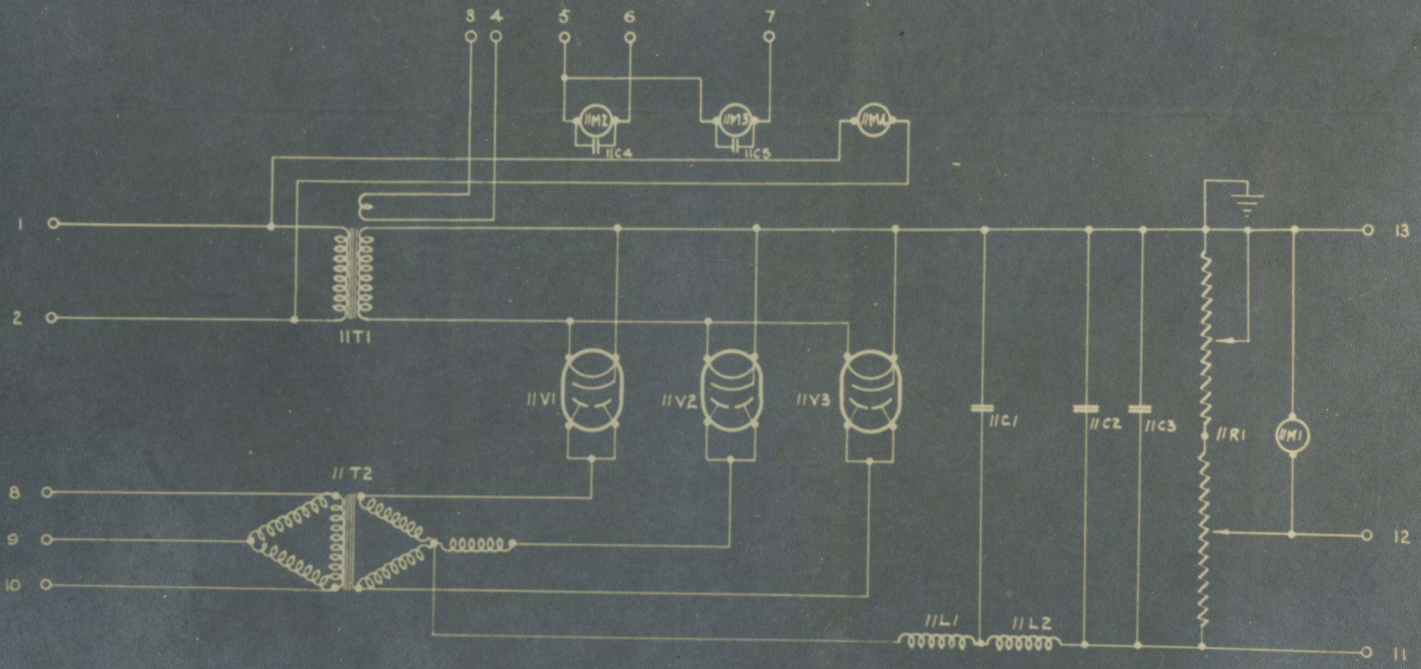
13TH. OCTOBER 2005.

Photographs



AMPLIFIER VALVE UNIT

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.  
 DIMENSIONS NOT TO BE SCALED. WORK TO DRAWING. REPORT ERRORS.  
 FIRST ANGLE PROJECTION

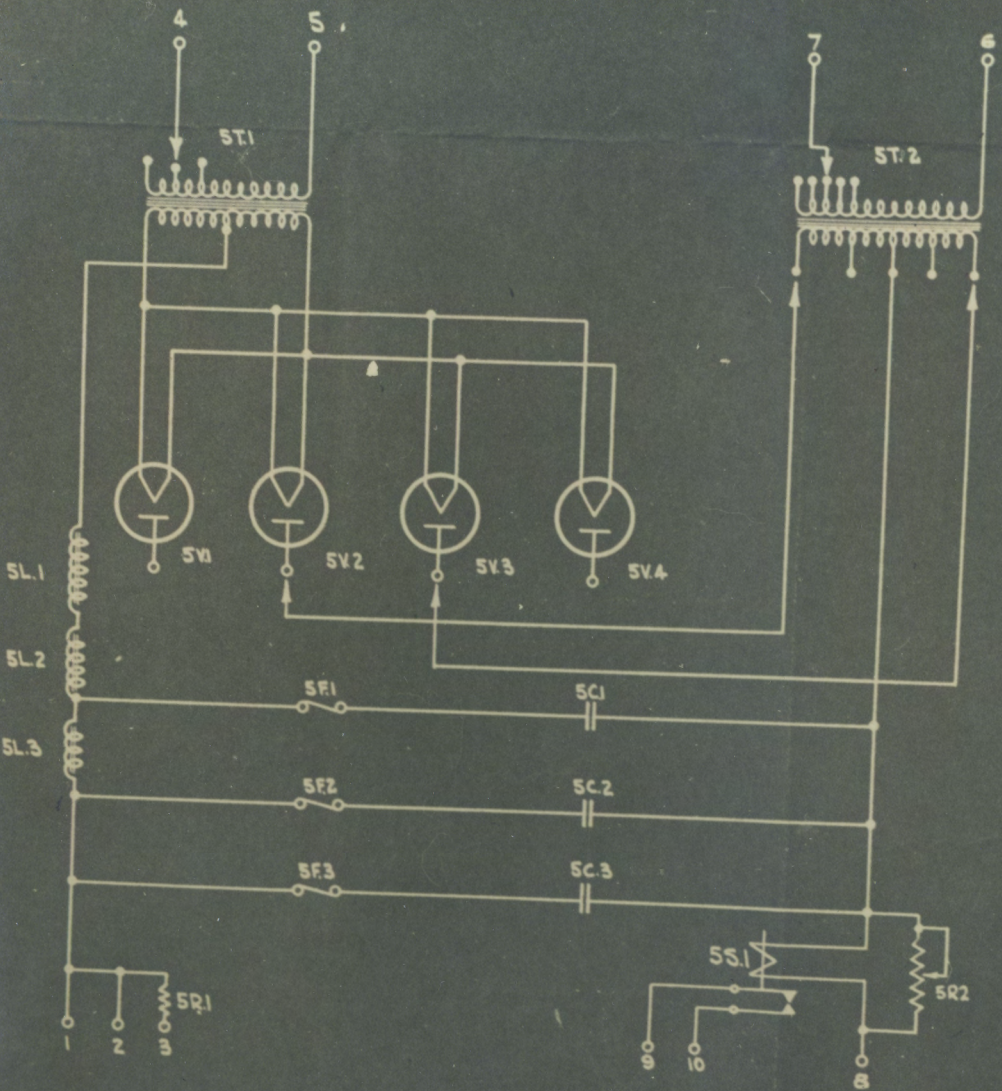


COMPONENT
II C
II L
II R
II T
II M
II V
II C

E

GR

SAME AS G



COMPONENT	DESCR
5L1	CHOKE 6H.
2	"
3	"
SR2	RESISTANCE 50Ω

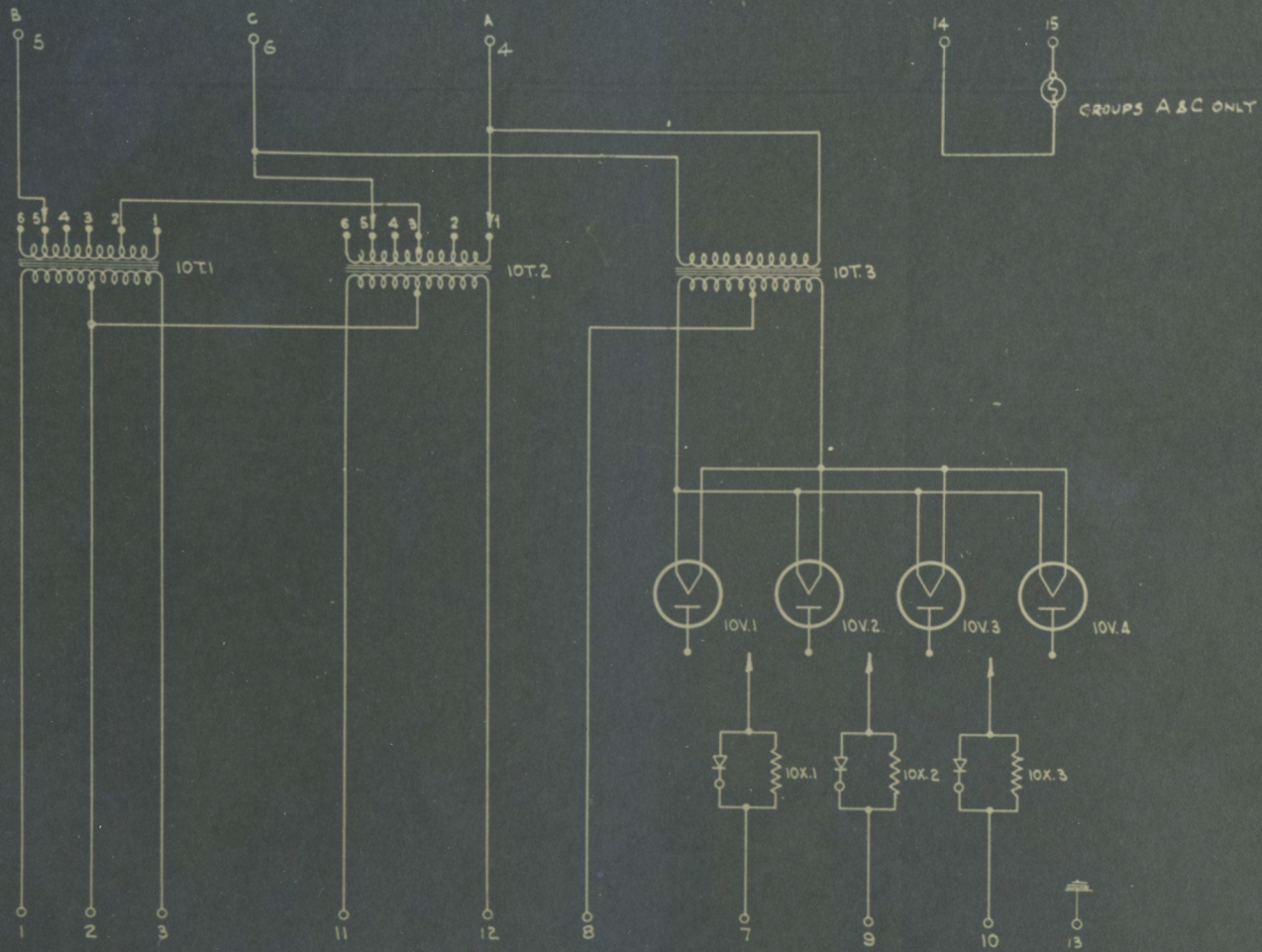
GR

COMPONENT	DESCR
5C.1	CONDENSER 4 MFD. 15
2	"
3	"
5F.1	FUSE 2 AMR FUSE
2	"
3	"
5L.1	CHOKE 6H
2	"
3	"
ST.1	TRANSFORMER RECTIF
ST.2	" HIGH
5V.1	VALVE 866 (4 PIN A)
2	"
3	"
4	"
TERMINALS	1-10 15 AMP.
5S.1	OVERLOAD RELAY 5 AM
5R.1	VOLTMETER RESISTANCE
5R.2	"

ST1	TRANSFORMER	RECTIF
2	"	HIGH T
(ALL OTHER COMPONENTS)		

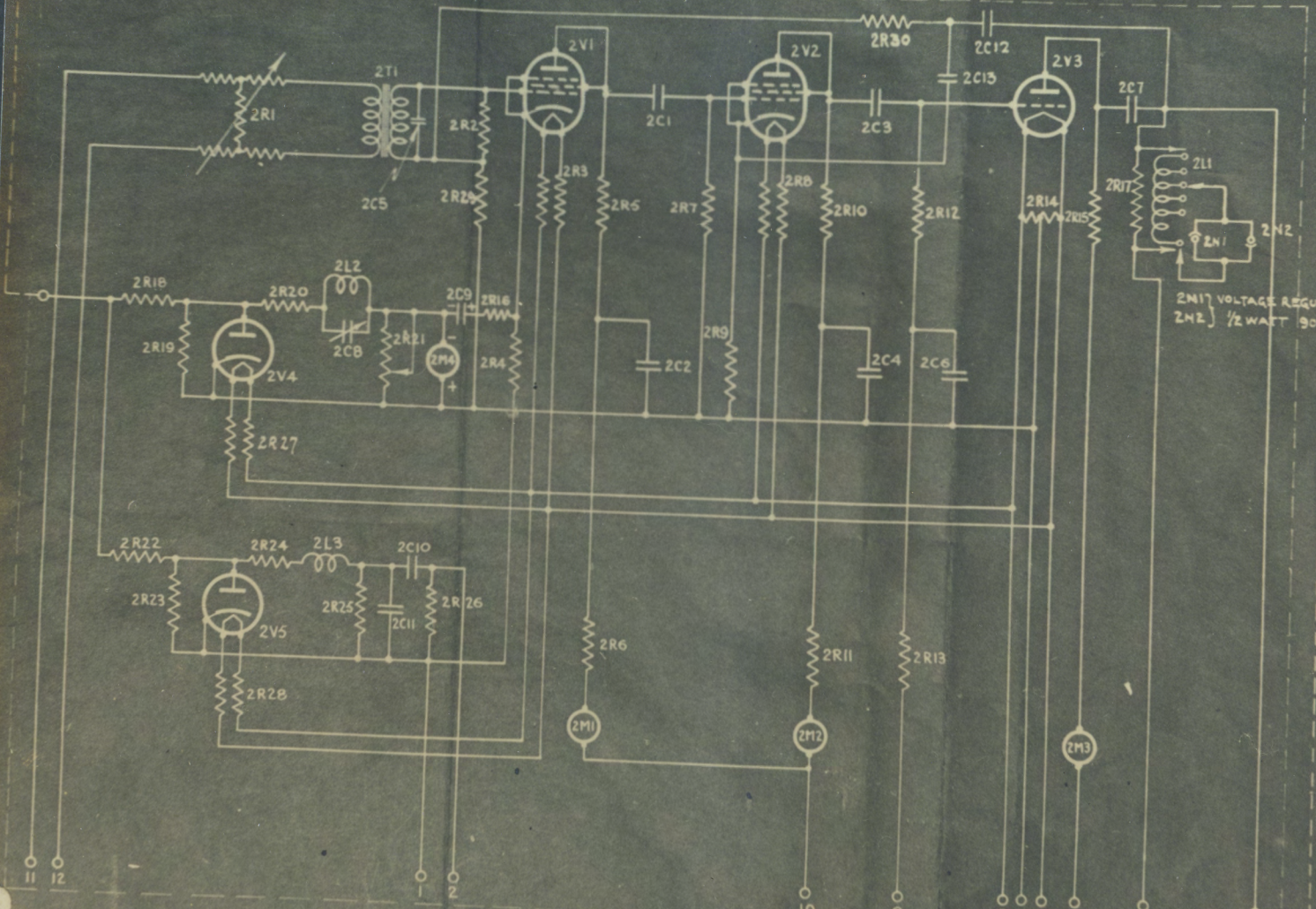
GR

K



# RE-EXCITER UNIT

B



2M1 VOLTAGE REGULATING TUBE  
2M2 1/2 WATT 90 VOLT - NEON

# MODULATOR UNIT

11 12

1 2

10

9

5

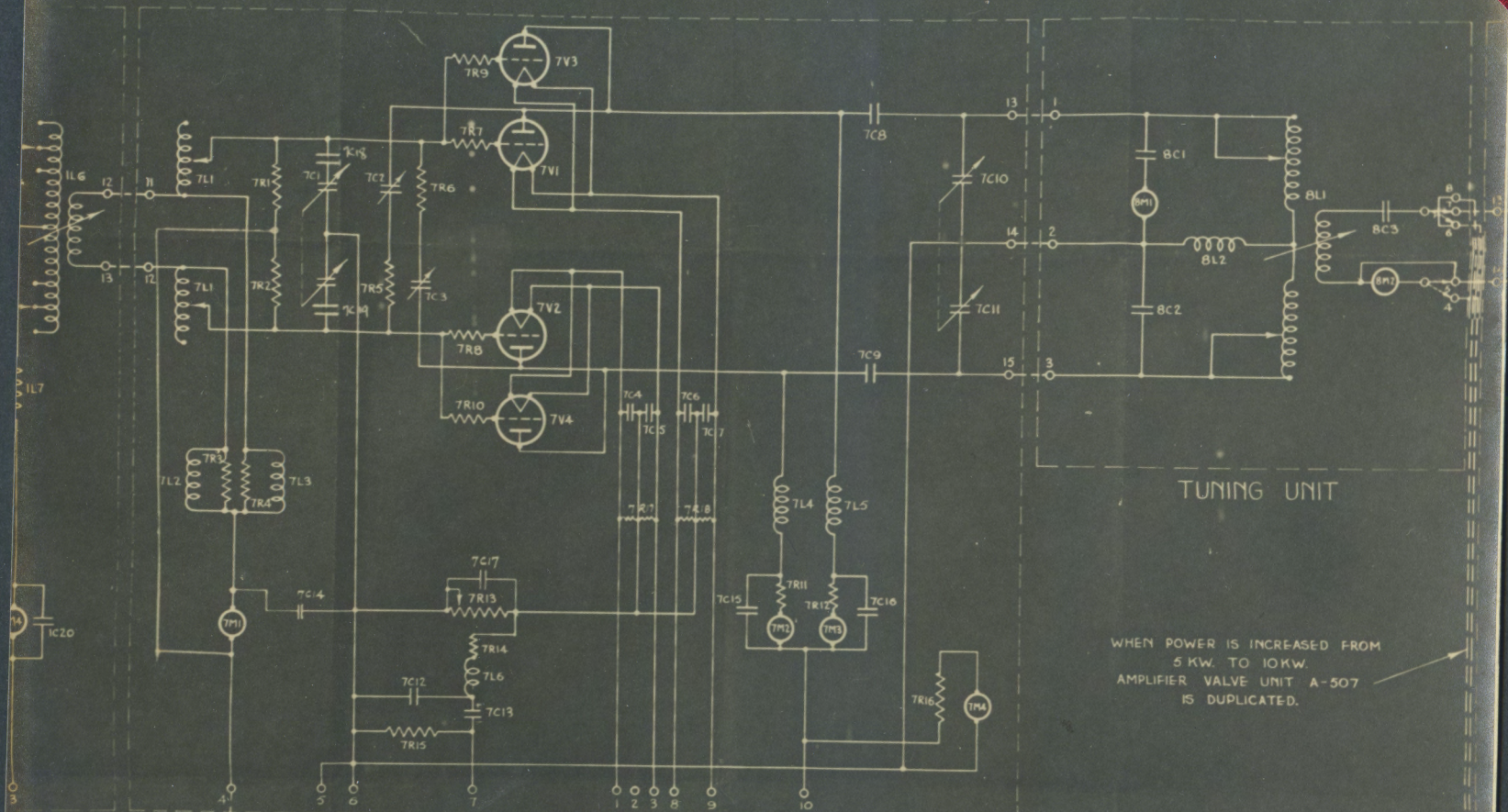
7

6

4

8

3



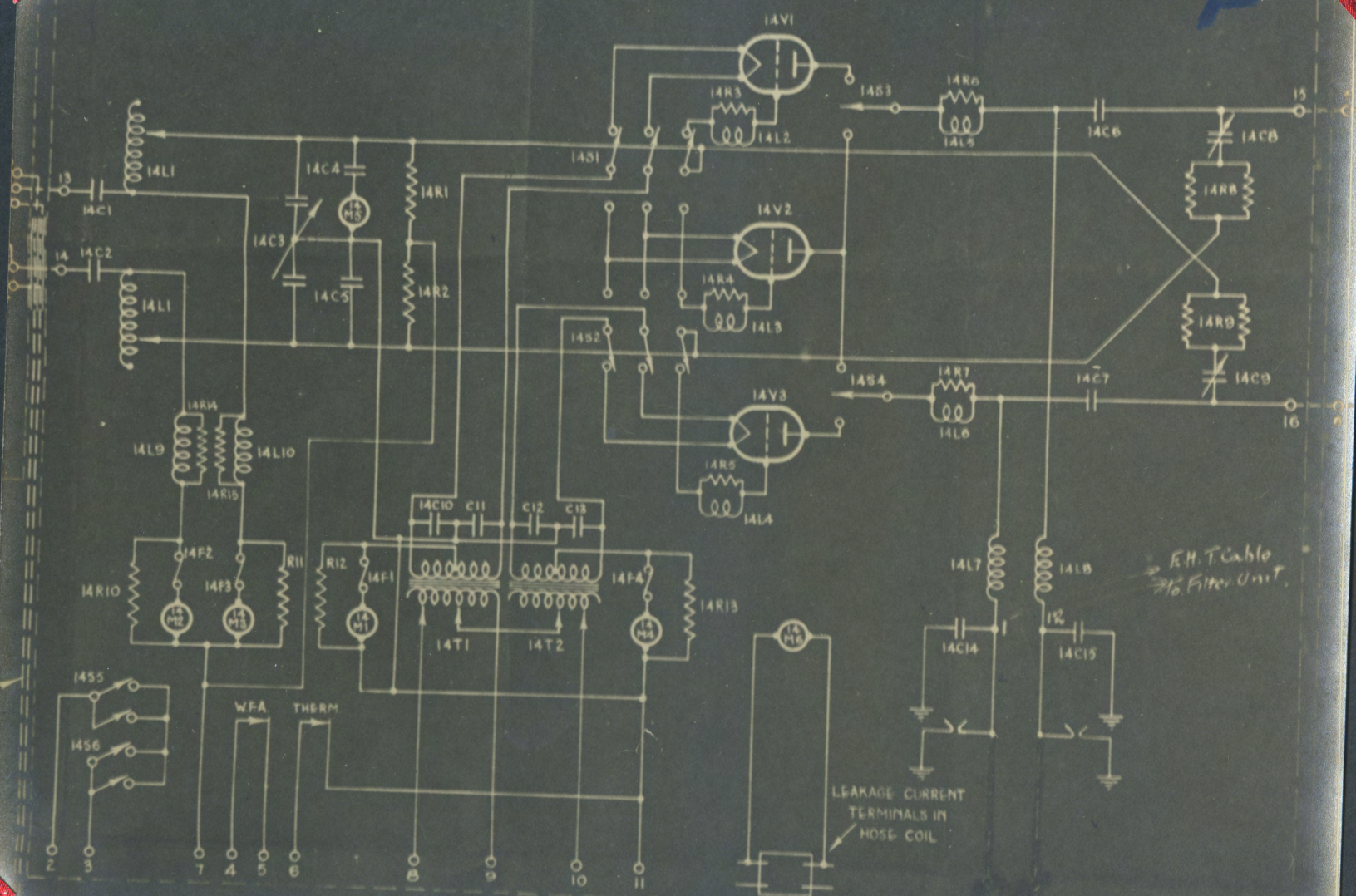
MODULATED AMPLIFIER UNIT

TUNING UNIT

WHEN POWER IS INCREASED FROM 5 KW. TO 10KW. AMPLIFIER VALVE UNIT A-507 IS DUPLICATED.

PART	DESCRIPTION	MAKE	DRG. N°	PART	DESCRIPTION	MAKE	DRG. N°
1C1	CONDENSER. MICRET SPLATE 2 GANG. ISOLANTITE	BARBIERES		2C1	CONDENSER 0.5 mfd RS 502.49		
2	"	"		3	" 2.0 " " 47		
3	" 0.01 mfd 1500V A.C. TEST	S.M.	SIMPLEX	4	" 0.5 " " 49		
4	"	"		5	" 2.0 " " 47		
5	"	"		6	" 0.005 mfd		
6	" 0.0005 mfd	"		7	" 2.0 RS 502.4		
7	" 0.1	"		8	" 1.0 " " 40		
8	"	"		9	" VARIABLE	STC	SP 2770
9	"	"		10	" 100 mfd RS 502.39		
10	VARIABLE	STC	SP 2770	11	" 0.001 mfd	S.M.	SIMPLEX
11	" 0.01 mfd 1500V A.C. TEST	S.M.	SIMPLEX				

P



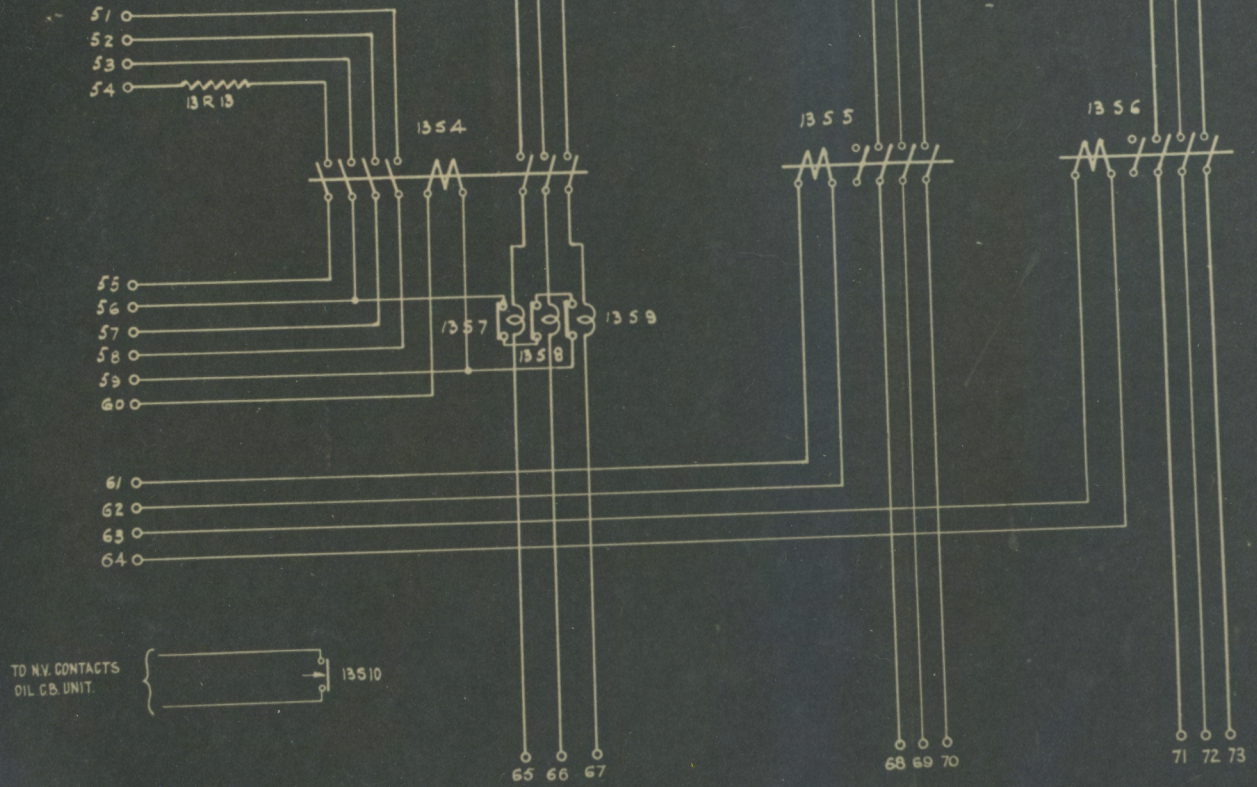
E.H.T. Cable  
to Filter Unit.

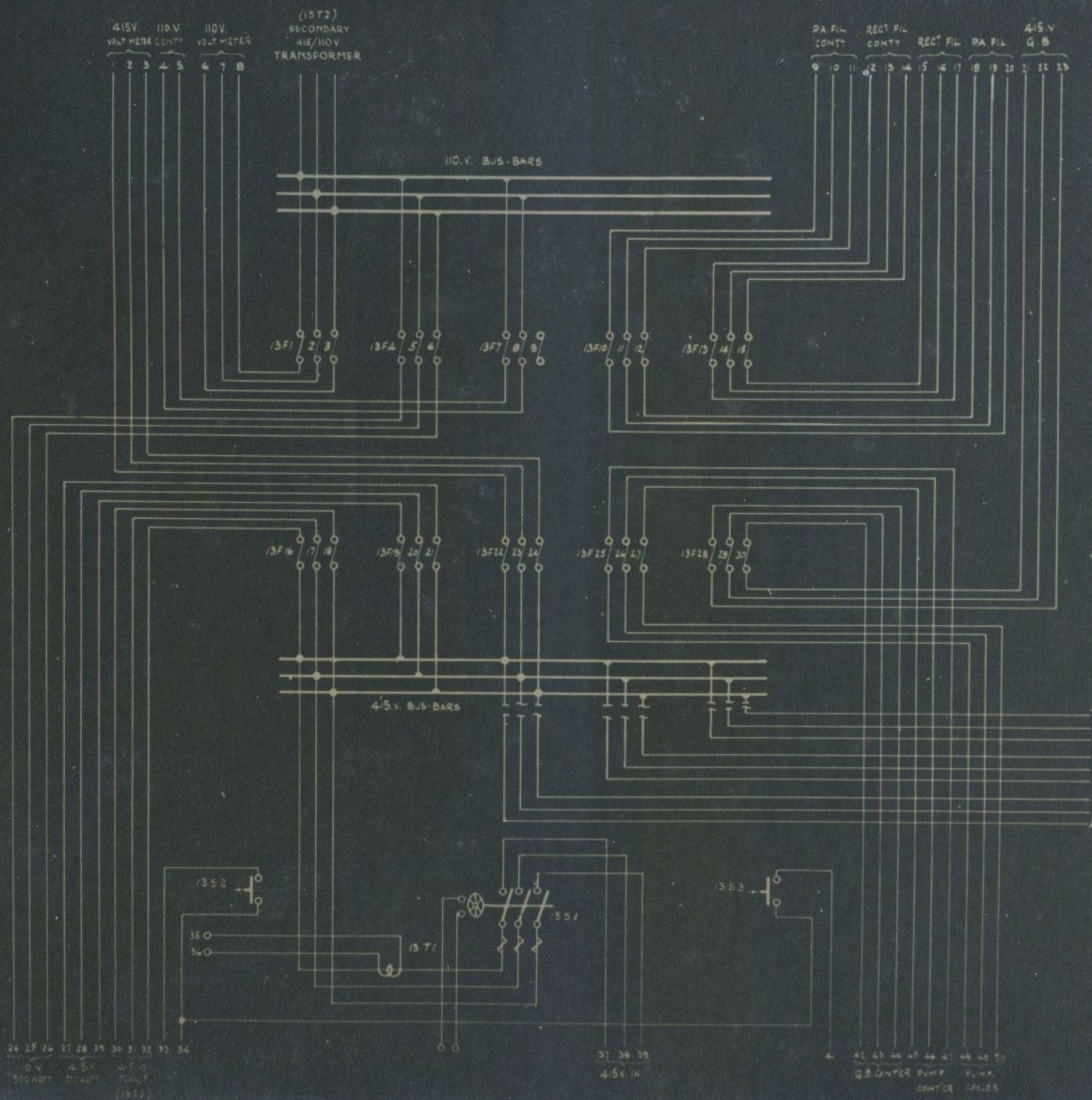
LEAKAGE CURRENT  
TERMINALS IN  
HOSE COIL

AMPLIFIER VALVE UNIT



415.V. BUS-BARS





COMPONENT	NO.	FUSE
	1	
	2	
	3	
	4	
	5	
	6	
	7	
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	9	
	10	
	11	
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	22	
	23	
	24	
	25	
	26	
	27	
	28	
	29	
	30	
13S1	1	CIRCUIT
	2	SWITCH
	3	
13T1	1	TRANSFORMER
	2	

FOR CONTINUATION  
OF Ckt. SEE SHEET 2

26 25 24 23 22 21 20 19 18 17 16 15 14  
415V. IN. 415V. CONTROL 415V. PUMP  
SHEET NO. 1000 (1952)

37 38 39  
415V. IN.

41 42 43 44 45 46 47 48 49 50  
415V. CONTROL 415V. PUMP 415V. PUMP  
CONTROL PANEL

R. E.H.T. UNIT.

110V AC

R

- 1 3  $\phi$  E.H.T. 16T1-16T7. Fil transformer
- 2 CC 21/22/23.  $\overline{m 22/23/24}$ . 12S 16.  $m 44/45$ .  $\overline{N 15/16/17}$ . 13F 13/14/15.
- 3  $\overline{N 12/13/14}$ .  $\overline{m 46/47/48}$ . 12S 4/1/2/3.
- 4 S2. CC 44.  $m 18$  12S 17  $m 17$ . L7. E.H.T. Current meter to eth
- 5 E.H.T. Emergency off. Gate switches Q2. CC 37/36.  $m 15$ .
- 6 CC 40. N 56.
- 7 CC 41.  $\overline{N 52}$  13S 4/5  $\overline{N 57}$  13F 8 110V ac

100V AC

- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20

415V AC

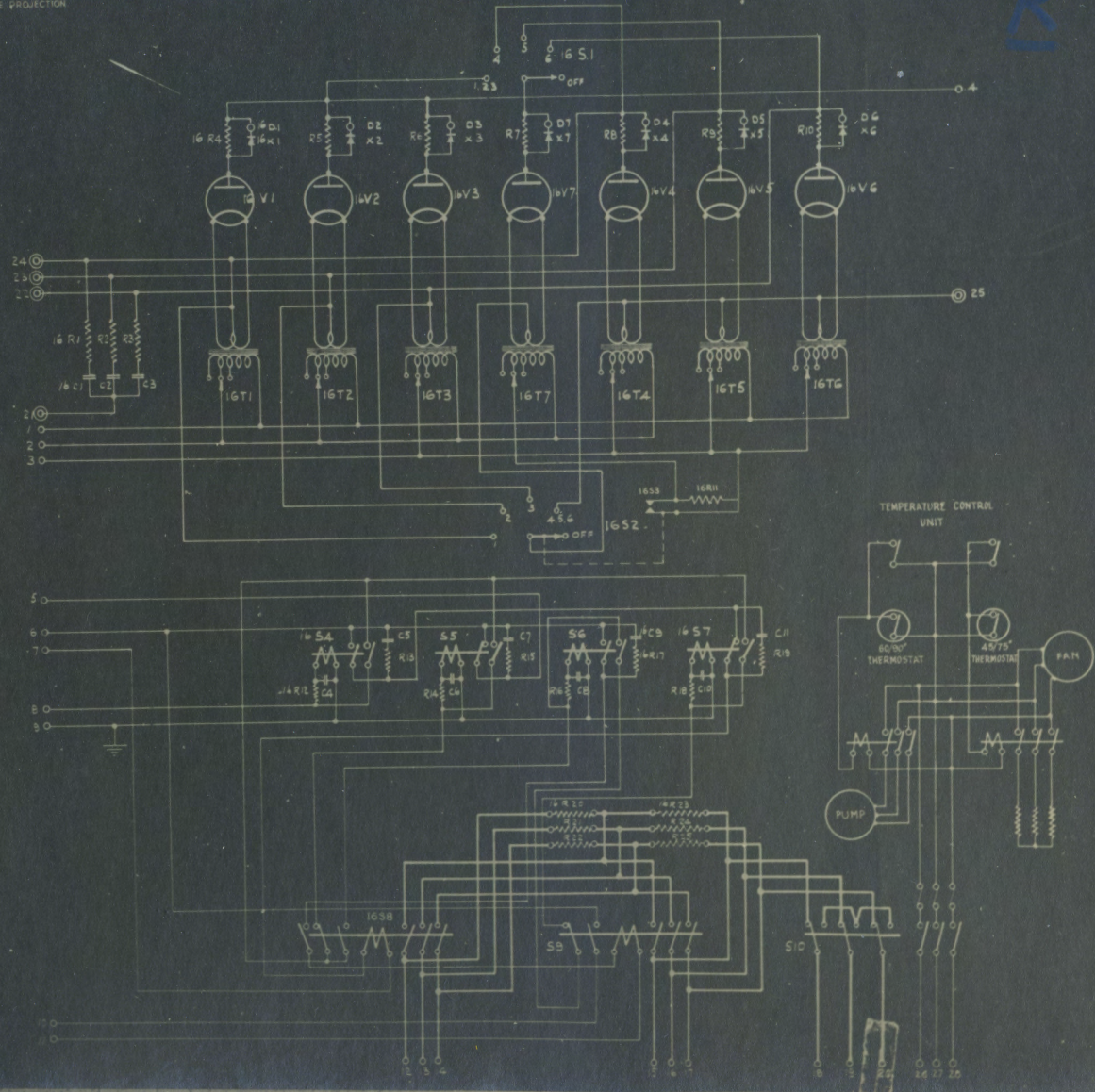
120V AC

- 21
- 22
- 23
- 24
- 25
- 26
- 27

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.  
 PHOTOGRAPH NOT TO BE SCALED. WORK TO DRAWING. REPORT ERRORS.  
 THIRD ANGLE PROJECTION.

D  
 SHEET

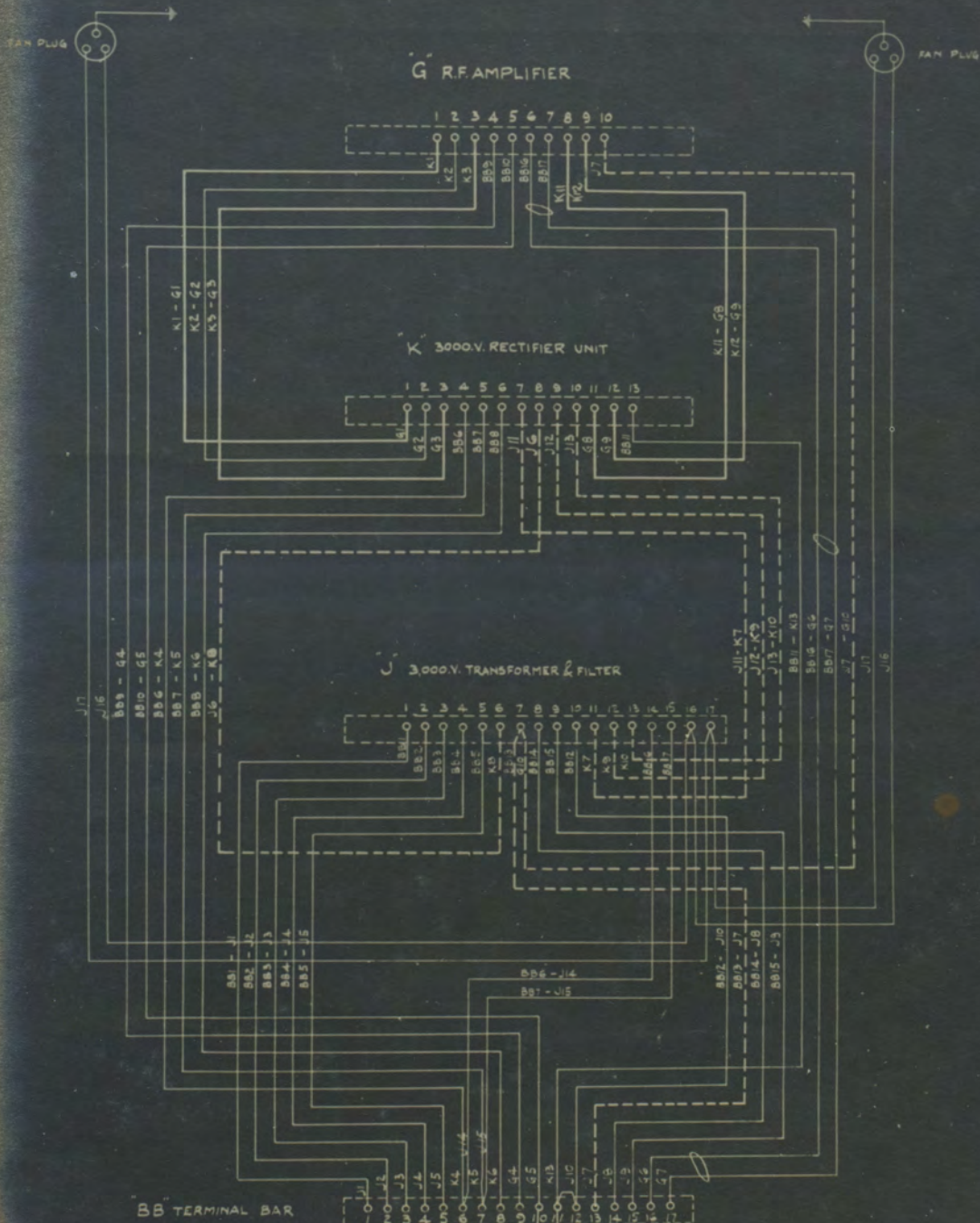
R



16 C	CONDENSER
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
16 D	TELEPHONE
1	
2	
3	
4	
5	
6	
7	
16 R	RESISTOR
1	
2	
3	
4	
5	
6	
7	
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11	
12	
13	
14	
15	
16	
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21	
22	
23	
24	
25	
16 S	SWITCH
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
16 T	TRANSFORMER
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
16 V	VACUUM TUBE
1	
2	
3	
4	
5	
6	
16 X	RECTIFIER
1	
2	
3	
4	

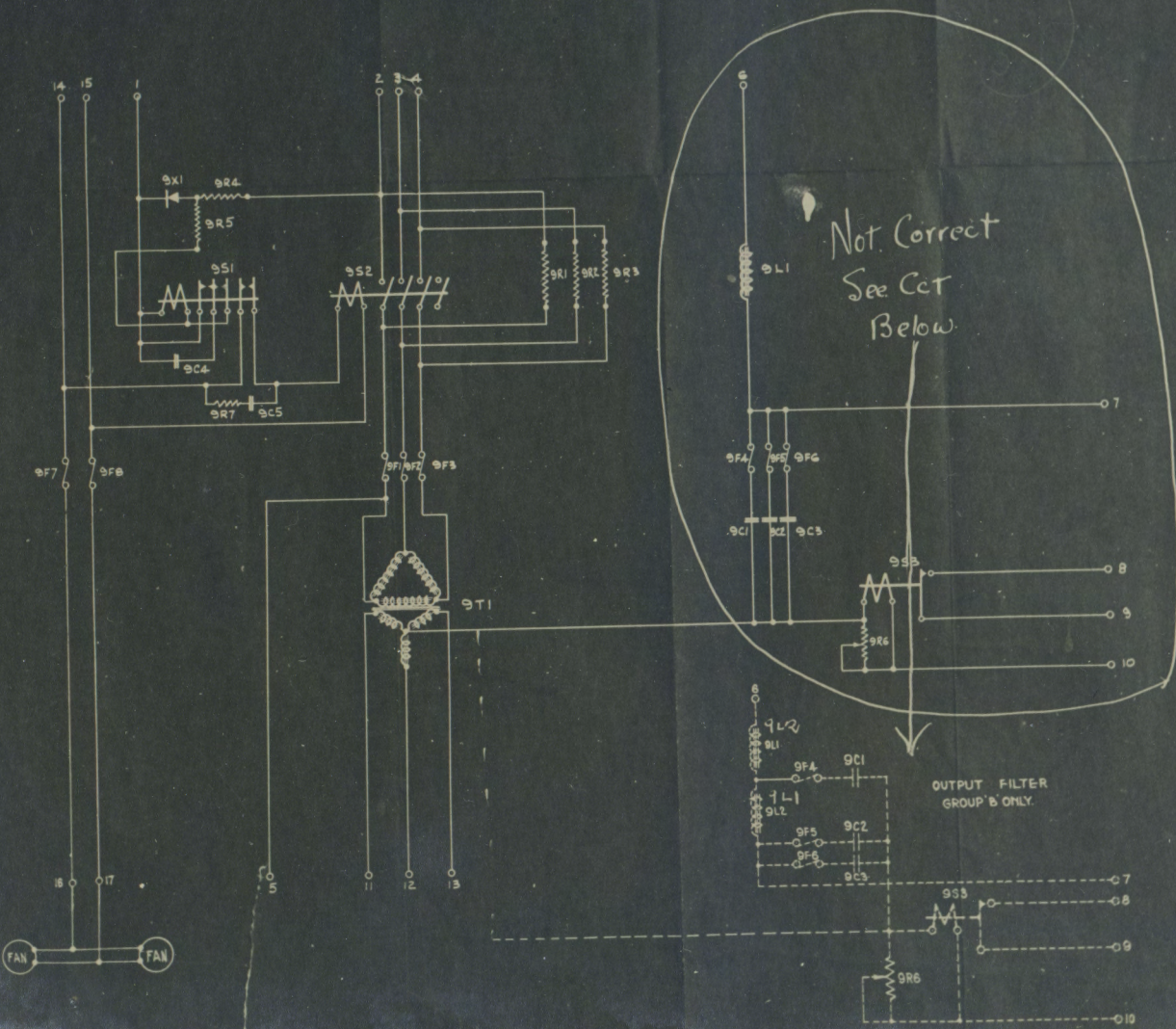
NOTE

- DENOTES 37/012 6000V NEON CABLE TAPED & BRAIDED WIRE
- ==== DENOTES 7/044 600 MEG OHM GRADE
- DENOTES 3/036
- TWISTED SHIELDED PAIR



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 PHOTOPRINT IS TO BE SCALED WORK TO DRAWING. REPORT ERRORS.  
 THIRD ANGLE PROJECTION.

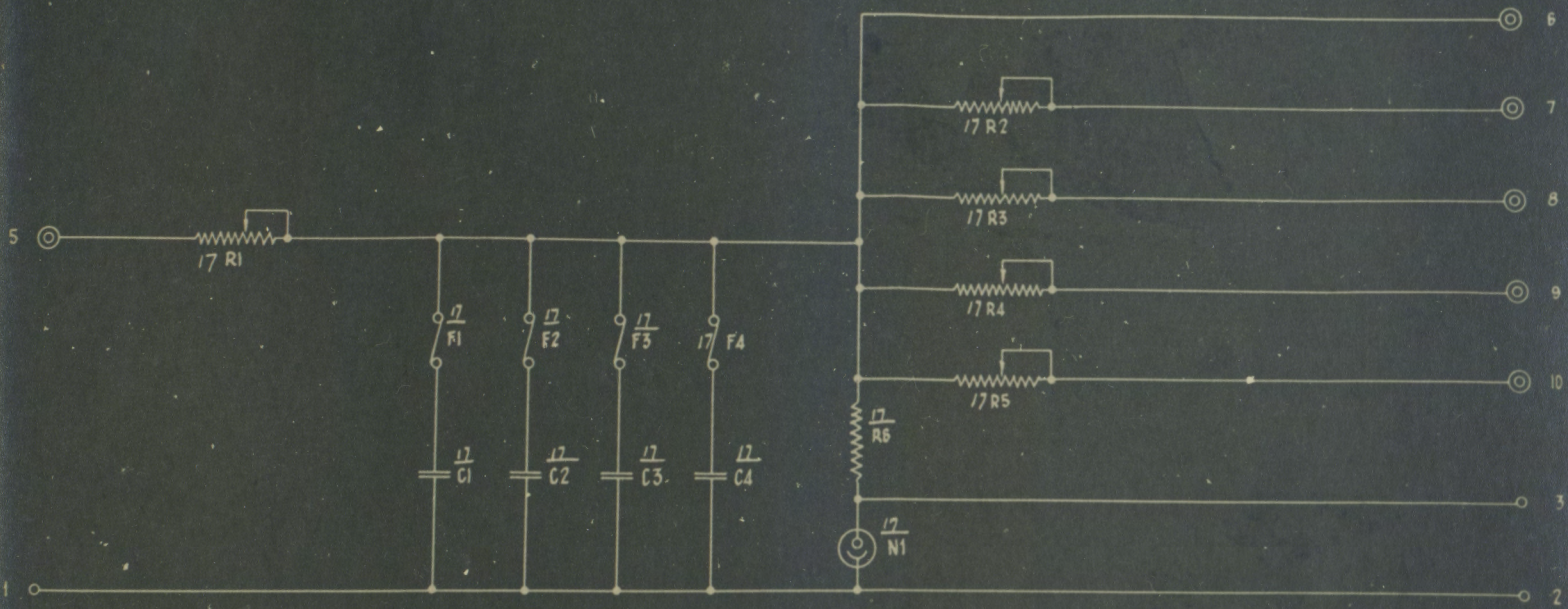
*Group D*

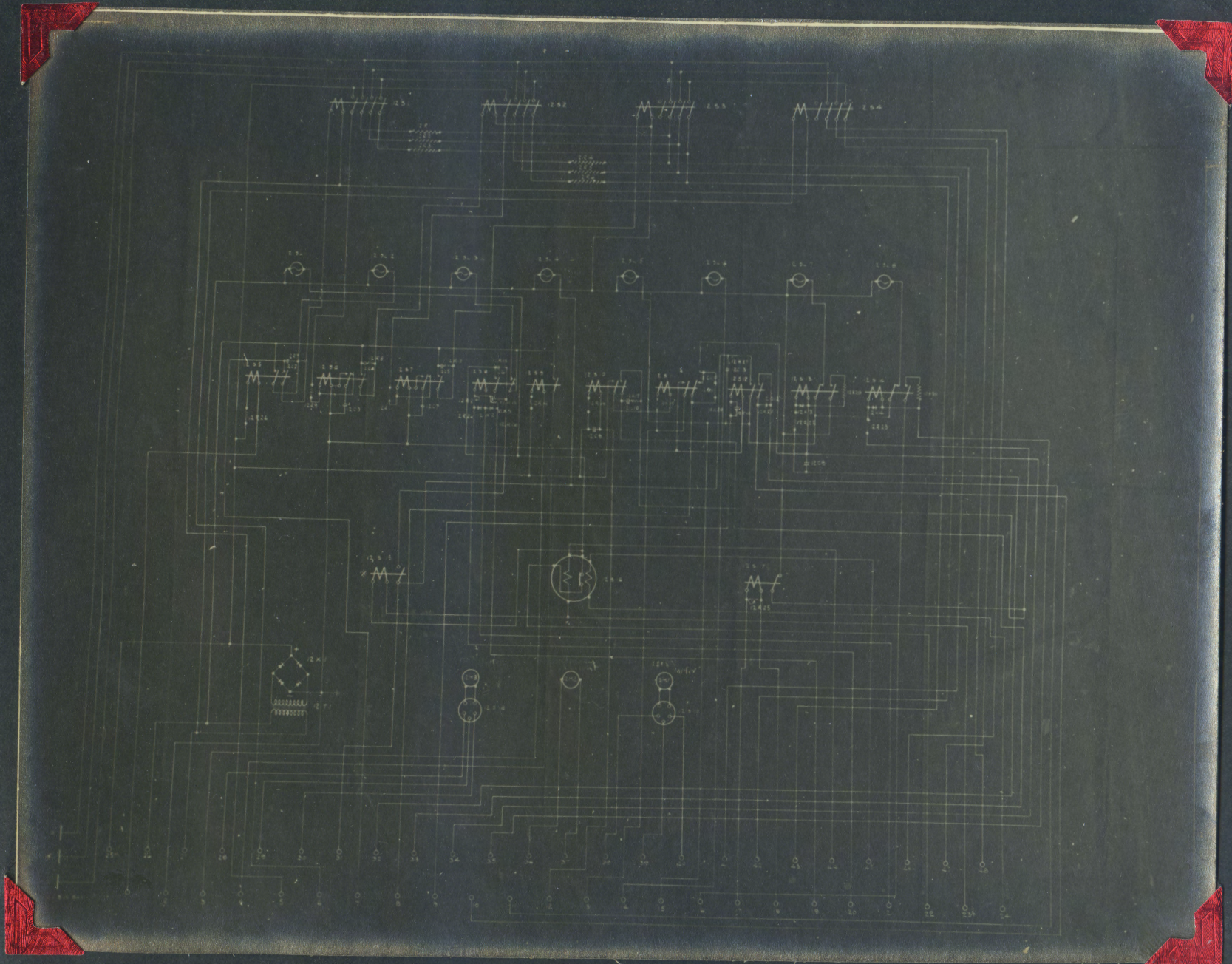


GROUP D		
COMMENT	DESCRIPTION	VALUE
9C1	CONDENSER	2.7 mfd 40V
2	"	"
3	"	"
4	"	ELECTROLYTIC 1000
5	"	0.5 mfd
9F1	FUSE	10AMP 1STRAND 9V
2	"	"
3	"	"
4	"	2.7 .1 " 90
5	"	"
6	"	"
7	"	5 " 1 " 90
8	"	"
9L1	CHOKE	15.H
2	"	"
9S1	RELAY	
2	CONTACTOR	20AMP 10V
3	RELAY	0/L
9R1	RESISTOR	5X110 OHMS
2	"	"
3	"	"
4	"	5000 OHMS
5	"	5000 "
6	"	"
7	"	"
9T1	TRANSFORMER	
9X1	RECTIFIER	

GROUP		
9F1	FUSE	20AMP 1 STRAND 9V
2	"	"
3	"	"
9L1	CHOKE	2X7H & 1500UH
9R1	RESISTOR	2X110 OHMS
2	"	"
3	"	"
6	"	"
9T1	TRANSFORMER	
(ALL OTHER COMPONENTS SIM)		

GROUP C		
9T1	TRANSFORMER	
9S2	CONTACTOR	10V 40 ~
(ALL OTHER COMPONENTS SIM)		





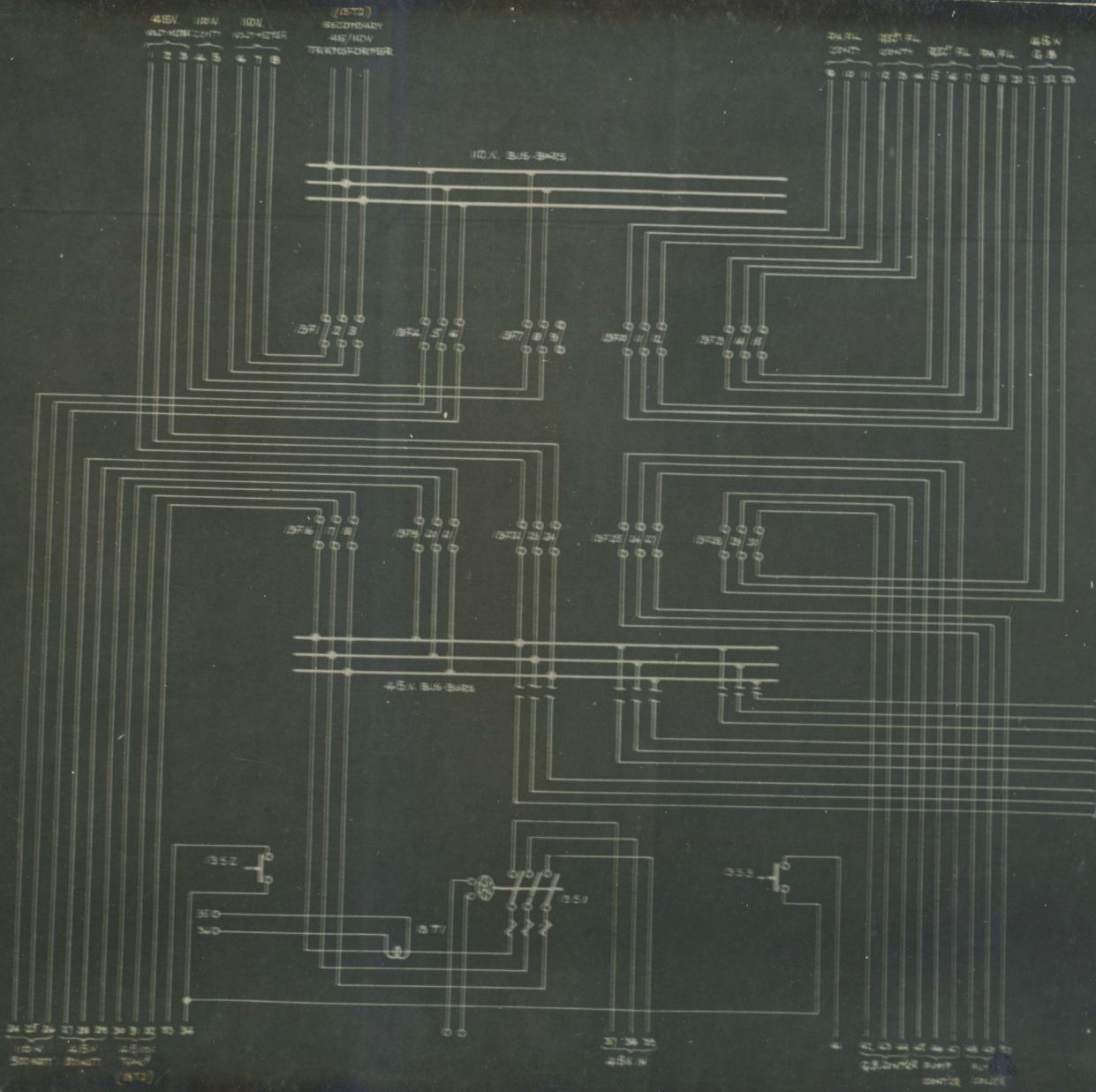


OUTPUT CIRCUIT UNIT

MAKE	DRG. NO.	PART	DESCRIPTION	MAKE	DRG. NO.	PART	DESCRIPTION	MAKE	DRG. NO.
S.T.C.	SP4290	14C1	CONDENSER .01 mfd R.S. 502-60			15C1	CONDENSER .550-750 Kcfs 450mmfd R.S. 502-124		
0 mfd		3	TUNING				760-1060 " 300mmfd R.S. 502-121		
0 "	"	4	550-750 Kcfs 1000mmfd R.S. 502-105	S.T.C.	A.403-H	2	1070-1500 " 150. " R.S. 502-120		
0 "	"	4	760-1050 " 800 " R.S. 502-105			3	AS C1		
0 "	"	5	1060-1500 " 400 " R.S. 502-103			3	550-750 Kcfs 600mmfd R.S. 502-152		
0 "	"	6	AS C4			4	760-1060 " 400 " R.S. 502-131		
0 "	"	7	0.002 mfd R.S. 502-141			4	1070-1500 " 300 " R.S. 502-130		
0 "	"	8	NEUTRALIZING			5	10 mmfd R.S. 502-107	CHANEX	
0 "	"	9		S.T.C.	A.546	6	VARIABLE	S.T.C.	SP2770-B
0 "	"	10	0.05 mfd R.S. 502-61			5	600mmfd R.S. 502-71		
0 "	"	11				15F1	FUSE 28AMP. (1 AMP FUSE WIRE)	PROTEX	
0 "	"	12				15L1	TUNING COIL	S.T.C.	A.528
0 "	"	13				2	"	"	A.526
0 "	"	14	0.001 mfd R.S. 502-140			3	"	"	A.527
0 "	"	15				4	"	"	A.523-A
MODEL 425	WESTON	14L1	GRID TUNING COIL	S.T.C.	A.444-G	6	RF CHOKE 2.5 mh	"	SP4201-A
"	"	2	CHOKE	"	SP4585	7	" 1.5	"	SP4891
2/60		3		"	"	15M1	METER 0-15 A. EXTERNAL T/C MODEL 425	WESTON	
		4		"	"	2	0-500V. ELECTROSTATIC " 505	TURNER	
		5		"	"	3	0-15 A. EXTERNAL T/C " 425	WESTON	
		6		"	SP4656	15S1	CHANGE OVER SWITCH.	S.T.C.	SP4876
		7		"	"	2	AERIAL CHANGE OVER.		
		8		"	SP4099	3	PUSH BUTTON (RED)	H.C.E.	
		9		"	"	15V1	VALVE 83V. (4 PIN AMPHENOL)		
		9X10		"	SP4201-A	15C7	CONDENSER .002 mfd R.S. 502-85		
		14M1	METER 200-0-200 mA MODEL 301 WESTON						
		4							
		2	0-1.5 AMPS						
		3							
		5	0-3 RMS R.F. 425						
		6	0-5 mA 301						
		14R1	CRESSAL MAT. 2,000 ohm R.S. 506-11			15C1	SAME AS GROUP A WITH EXCEPTION OF C1, C2, M1 & M3		
		2					CONDENSER .550-750 Kcfs 900mmfd R.S. 502-123		
		3	RESISTOR 50 ohm 105 x 18 mm	GWRITE		2	760-1060 + 600 " R.S. 502-122		
		4					1070-1500-300 " R.S. 502-121		
		5				2	AS C1		
		6	20 " 150 x 18 mm			15M1	METER 0-20 A R.F. EXTERNAL T/C MODEL 425	WESTON	
		7				2	0-20 A R.F. INTERNAL T/C " " " "		
		8	2x50 " 105 x 18 mm						
		9							
		10	20 " R.S. 506-23	CENTURY					
		11							
		12	5 " " "						
		13							
		14F1	FUSE 5 AMP 1 STRAND 38 SWG. TIN COPP. LEAD	PROTEX		14R14	RESISTOR 3000 Ω 105 x 18 mm	GWRITE	
		2	" 2 " " " "			R15	" " " "		
		3	" " " " "			14S6	AUXILIARY CONTACT FILAMENT SWITCH	ALPHA	
		4	" 5 AMP " " "			14T1	TRANSFORMER R.S. 508-29		
		14S1	GRID FILAMENT SWITCH	S.T.C.	A.543	2	" " " "		
		2				14V1	VALVE 4047-A IN SOCKET A549		
		3	ANODE SWITCH	"	A.545	2	" " " "		
		4				3	" " " "		
		5	AUXILIARY CONTACT FILAMENT SWITCH	ALPHA					

AMPLIFIER UNIT

PART	DESCRIPTION	MAKE	DRG. NO.	PART	DESCRIPTION	MAKE	DRG. NO.	PART	DESCRIPTION	MAKE	DRG. NO.
1C1	CONDENSER MIDGET SPLATE 2 GANG ISOLANTITE	RADIOS		2C1	CONDENSER 0.5 mfd R.S. 502-49			7C1	CONDENSER VARIABLE TUNING	STC	A 403-N
2	"	"		3	" 2.0 " " 47			2	" NEUTRALISING	"	A 403-M
3	" 0.01 mfd 1500V A.C. TEST	S.M.		4	" 0.5 " " 49			3	"		
4	"	"		5	" 2.0 " " 47			4	" 0.05 mfd R.S. 502-51		
5	"	"		6	" 0.005 mfd " " "			5	"		
6	"	"		7	" 2.0 " " 47			6	" 1.0 " " 40		
7	"	"		8	" VARIABLE			7	"		
8	"	"		9	" 100 mfd R.S. 502-39	STC	SP2770	8	" 0.01 mfd R.S. 502-110		
9	"	"		10	"			9	"		
10	VARIABLE	"		11	" 0.001 mfd " " "	S.M.		11	" TUNING		
11	0.01 mfd 1500V A.C. TEST	S.T.C.	SP2770	12	2L1 CHOKE 25H	S.T.C.	SP4987	12	"	STC	A 403-M
12	"	S.M.		3	TUNING COIL 100 u.h	STC	SP4216	13	" 0.001 mfd 1500V A.C.	SIMPLEX	
13	"	"		2M1	CHOKE 2.5 mh	STC	SP4201A	14	ELECTROLYTIC R.S. 502-39		
14	NEUTRALISING	"		2	METER 0-5 ma MODEL 301	WESTON		15	" 0.01 mfd R.S. 502-50		
15	0.05 mfd R.S. 502-51	STC	A 403-L	3	"	"		16	"		
16	"	"		4	" 0-150	"		7L1	COIL TUNING	STC	A 625-C
17	TUNING	STC	A 403-H	2R1	ATTENUATOR .30DB 600 OHM	R.S. 504-2		2	CHOKE 2.5 mh	"	SP4201A
18	550-750 Kc/s 400 mfd R.S. 502-103	"		2	RESISTOR 40,000 ohm 2 WATT	LEKMEK		3	"	"	
19	760-1060 " 200 " R.S. 502-101	"		3	" 2 x 6-2 "	"		4	"	"	
20	1070-1500 " 100 " R.S. 502-100	"		4	" 3,000 "	STC	SP2821-A	5	"	"	
21	0.01 mfd 1500V A.C. TEST	S.M.		5	" 50,000 "	"		6	"	"	
1L1	CHOKE 2.5 mh	SIMPLEX		6	" 20,000 "	"		7	"	"	SP4201A
2	TUNING COIL	STC	SP4201A	7	" 50,000 "	"		7M1	METER 50-0-50 mA	MODEL 301	WESTON
3	CHOKE 2.5 mh	STC	SP419B	8	" 2 x 6.2 "	"		2	" 0-500 mA	"	
4	" FILAMENT	STC	SP4201A	9	" 1,000 "	"		3	"	"	
5	"	"		10	" 50,000 "	STC	SP2821-A	4	"	"	
4727	TUNING COIL	"		11	" 20,000 "	"		7R1	RESISTOR 0-4,000 VOLTS	"	
4201-B	CHOKE 2.5 mh	"		12	" 50,000 "	"		2	2,000 ohms 250 x 25 mm	GIVRITE	
1M1	0-200 uA MODEL 600	WESTON		13	" 50,000 "	"		3	" 3,000 105 x 18 "	"	
2	0-25 mA " 301	"		14	" 20 " C.T.	"		4	" 2 x 50 ohm 3 WATT IN PARALLEL	ERIC	
3	10-0-10 mA " 301	"		15	3 x 2,000-150 x 18mm (IN SERIES)	STC	SP2341-B	5	"	"	
4	0-150 mA " 301	"		16	10,000 " 2 WATT	GIVRITE		6	"	"	
1R1	RESISTOR 500,000 ohm 2 WATT	IRC.		17	RESISTOR 2 x 10,000 ohms 2 WATT (IN PAR.)	IRC		7	"	"	
2	" 5,000 "	"		18	" 4 x 2,500 " " (IN SERIES)	"		8	"	"	
3	" 3,000 "	"		19	" 2 x 20,000 " " "	"		9	"	"	
4	CRYSTAL HEATING WINDING 475Ω ±5%	"		20	" 3000 "	"		10	"	"	
5	RESISTOR 10,000 ohm 2 WATT	IRC.		21	POTENTIOMETER 1000 "	"		11	" 5 ohms	"	
6	" 20,000 "	"		22	RESISTOR 4 x 2,500 " (IN SERIES)	STC	SP1595-D	12	"	STC	SP1341-A
7	" 10,000 "	"		23	" 2 x 20,000 " " "	IRC		13	" 10 ohm	"	
8	" 2 x 6.25 "	"		24	" 3,000 "	"		14	" 600 ohm	"	SP2851-A
9	"	STC	SP2821-A	25	" 600 " N.I.	STC	SP2730-A	15	" 100,000 " 2 WATT	STC	SP1300-A
10	" 100,000 "	IRC.		26	" 50,000 " 2 WATT	IRC		16	RESISTANCE VOLTMETER 4000V	IRC.	
11	POTENTIOMETER 4,500 ohms R.S. 506-1	LEKMEK		27	" 2 x 2.65 "	STC	SP2821-C	7V1	VALVE 4270-A MTC SOCKETS	WESTON	
12	RESISTOR 2 x 2.5 ohm	STC	SP2821-B	28	"	"		2	"	STC	SP4194
13	" 2 x 40,000 " 2 WATT (IN PARALLEL)	IRC.		2T1	TRANSFORMER SPEECH INPUT 800/40000Ω			3	"	STC	SP4193
14	" 20 " 43 x 6 mm 3 WATT	ERIC		2V1	VALVE 6C6 (6 PIN AMPHENOL SOCKET)	A 295-P		4	"		
15	"	"		3	" 4242-A (50 WATT JOHNSON SOCKET)			7C2	CONDENSER 0.1 mfd R.S. 502-223		
16	" C.T.	STC	SP2341-B	4	" 6A6 (7 PIN LARGE AMPHENOL)			7R7	RESISTANCE 20 OHM		
15I	THERMOSTAT TYPE R.S. 7616	"		22T1	CONDENSER 0.1 MF R.S. 502-223	DUCON.		7R8	"	STC	SP234
15L1	PILOT LIGHT 110V 15 WATT B.C.	"		2C2	" 0.02 MF	"					
1V1	VALVE 6C6 (6 PIN AMPHENOL SOCKET)	"		2R2	RESISTOR 1000 OHM 2 WATT	"					
2	" 4081-A (7 " LARGE)	"		2R3	" 100,000 "	"					
3	" 4242-A (50 WATT JOHNSON)	"		2R30	"	"					
TECH	1-13 15 AMP	STC	SP2924-A	2L2	CONDENSER 0.1 MF R.S. 502-223	DUCON.					
1C2	CONDENSER 0.01 mfd	SIMPLEX		2L3	RESISTOR 1000 OHM 2 WATT	SIMPLEX					
1X1	CRYSTAL R.S. 513-2	"		2R30	" 100,000 "	IRC.					



NO.	LINE
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