

**CONFIDENTIAL**  
**CO AN 08-20-6**

**COMPONENTS COMMON TO BOTH TRANSMITTER AND RECEIVER**

Capacitors						Resistors					
Desig.	Value	Desig.	Value	Desig.	Value	Desig.	Value	Desig.	Value	Desig.	Value
C1C	10 mmf	C5.3C	20.0 mf	C10C	0.003 mf	R1C	0.5 meg.	R5.2C	1,000 ohms	R7.2C	1,000 ohms
C2C	0.006 mf	C6C	0.006 mf	C11C	0.003 mf	R2C	0.02 meg.	R6.1C	1,000 ohms	R8.1C	1,000 ohms
C3C	0.006 mf	C7C	500 mmf	C12C	0.003 mf	R3C	30 ohms	R6.2C	1,000 ohms	R8.2C	1,000 ohms
C4C	1.0 mf	C8C	500 mmf	C13C	250 mmf	R4C	70 ohms	R7.1C	1,000 ohms	R9C	23 ohms
C5.1C	20.0 mf	C9C	0.003 mf	C14C	250 mmf	R5.1C	1,000 ohms				
C5.2C	20.0 mf										

**TRANSMITTER COMPONENTS**

Capacitors						Resistors					
Desig.	Value	Desig.	Value	Desig.	Value	Desig.	Value	Desig.	Value	Desig.	Value
C1T	3 mmf	C13T	0.01 mf	C25T	500 mmf	R1T	0.1 meg.	R12T	0.1 meg.	R23T	300 ohms
C2T	50 mmf	C14T	0.003 mf	C26T	500 mmf	R2T	500 ohms	R13T	1,000 ohms	R24T	0.03 meg.
C3T	400 mmf	C15T	1 mmf	C27T	500 mmf	R3T	400 ohms	R14T	0.01 meg.	R25.1T	0.015 meg.
C4T	0.01 mf	C16T	250 mmf	C28T	500 mmf	R4T	0.02 meg.	R15T	0.1 meg.	R25.2T	0.015 meg.
C5T	0.003 mf	C17T	0.01 mf	C29T	0.003 mf	R5T	400 meg.	R16T	500 ohms	R26T	300 ohms
C6T	25 mmf	C18T	500 mmf	C30T	0.01 mf	R6T	0.1 meg.	R17T	400 ohms	R27T	0.03 meg.
C7T	0.003 mf	C19T	0.01 mf	C31.1T	15 mf	R7T	500 ohms	R18T	800 ohms	R28T	0.25 meg.
C8T	0.01 mf	C20T	500 mmf	C31.2T	15 mf	R8T	1,000 ohms	R19T	0.01 meg.	R29T	100 ohms
C9T	250 mmf	C21T	5 mmf	C31.3T	40 mf	R9T	0.02 meg.	R20T	0.02 meg.	R30T	0.05 meg.
C10T	25 mmf	C22T	250 mmf	C31.4T	40 mf	R10T	600 ohms	R21T	500 ohms	R31T	0.5 meg.
C11T	0.01 mf	C23T	500 mmf	C32T	0.006 mf	R11T	500 ohms	R22T	750 ohms	R32T	200 ohms
C12T	0.003 mf	C24T	500 mmf	C33T	2 mmf						

**RECEIVER COMPONENTS**

Capacitors						Resistors					
Desig.	Value	Desig.	Value	Desig.	Value	Desig.	Value	Desig.	Value	Desig.	Value
C1R	15 mmf	C37.1R	40 mf	C78R	3 mmf	R1R	1,000 ohms	R35R	0.5 meg.	R59R	0.1 meg.
C2R	25 mmf	C37.2R	40 mf	C80R	0.005 mf	R2R	0.015 meg.	R36R	0.5 meg.	R61R	120 ohms
C3R	15 mmf	C37.3R	15 mf	C81R	0.05 mf	R3R	300 ohms	R37R	0.1 meg.	R62R	0.02 meg.
C4R	500 mmf	C37.4R	15 mf	C82R	0.005 mf	R4R	0.5 meg.	R38R	0.5 meg.	R63R	0.1 meg.
C5R	500 mmf	C39R	0.006 mf	C83R	8 mmf	R7R	6,000 ohms	R39R	0.01 meg.	R64R	0.1 meg.
C6R	500 mmf	C41R	0.006 mf	C84R	0.006 mf	R8R	0.1 meg.	R40R	0.1 meg.	R67R	1,000 ohms
C7R	50 mmf	C42R	0.006 mf	C85R	25 mmf	R10R	1,000 ohms	R41.1R	1,200 ohms	R68.1R	6,000 ohms
C8R	50 mmf	C43R	500 mmf	C86R	5 mmf	R11R	1,000 ohms	R41.2R	1,200 ohms	R68.2R	7,000 ohms
C9R	500 mmf	C44R	0.006 mf	C87R	0.005 mf	R12R	0.1 meg.	R42R	1,500 ohms	R68.3R	6,000 ohms
C10R	0.005 mf	C45R	0.006 mf	C88R	50 mmf	R13R	1,000 ohms	R43R	600 ohms	R68.4R	6,000 ohms
C11R	10 mmf	C46R	0.3 mmf	C89R	5 mmf	R14R	1,000 ohms	R44R	600 ohms	R68.5R	6,000 ohms
C12R	2 mmf	C50R	50 mmf	C90R	0.006 mf	R15R	0.1 ohms	R45R	0.1 meg.	R68.6R	4,000 ohms
C13R	15 mmf	C51R	15 mmf	C91R	50 mmf	R17R	1,000 ohms	R46R	0.1 meg.	R68.7R	1,500 ohms
C14R	15 mmf	C53R	25 mmf	C92R	5 mmf	R18R	1.0 meg.	R47.1R	0.01 meg.	R70R	30 ohms
C15R	15 mmf	C55R	500 mmf	C93R	0.005 mf	R19R	0.1 meg.	R47.2R	0.01 meg.	R71R	1,000 ohms
C16R	5 mmf	C56R	500 mmf	C94R	50 mmf	R20R	1.0 meg.	R48R	14 ohms	R72R	0.05 meg.
C17R	0.006 mf	C57R	50 mmf	C95R	5 mmf	R22R	1,500 ohms	R49R	0.1 meg.	R73R	2,000 ohms
C19R	5 mmf	C59R	500 mmf	C96R	0.006 mf	R23R	14 ohms	R50R	0.15 meg.	R74R	0.05 meg.
C21R	0.005 mf	C60R	500 mmf	C97R	50 mmf	R24R	0.05 meg.	R51R	0.1 meg.	R75R	2,000 ohms
C22R	0.005 mf	C61R	50 mmf	C98R	5 mmf	R25R	0.15 meg.	R52R	6,000 ohms	R76R	0.05 meg.
C23R	0.005 mf	C62R	500 mmf	C99R	0.005 mf	R26R	0.15 meg.	R53R	560 ohms	R77R	2,000 ohms
C24R	0.005 mf	C63R	500 mmf	C100R	50 mmf	R29R	0.25 meg.	R54R	1,000 ohms	R78R	50,000 ohms
C25R	0.005 mf	C66R	0.005 mf	C101R	5 mmf	R30R	0.25 meg.	R55R	0.1 meg.	R79R	1 meg.
C26R	0.006 mf	C67R	5 mmf	C102R	0.006 mf	R31R	0.5 meg.	R56R	560 ohms	R80R	1 meg.
C27R	0.005 mf	C69R	500 mmf	C103R	50 mmf	R32R	0.5 meg.	R57R	750 ohms	R81R	1,000 ohms
C28R	25 mmf	C70R	500 mmf	C104R	5 mmf	R33R	10 meg.	R58R	1,000 ohms	P1R	0.1 meg.
C29R	0.006 mf	C71R	5 mmf	C105R	0.005 mf	R34R	1.0 meg.				
C30R	0.006 mf	C72R	15 mmf	C106R	50 mmf						
C31R	0.006 mf	C73R	15 mmf	C107R	5 mmf						
C32R	0.02 mf	C74R	15 mmf	C108R	50 mmf						
C34R	0.006 mf	C75R	2 mmf	C109R	500 mmf						
C35R	500 mmf	C77R	3 mmf	C110R	0.003 mf						
C36R	0.01 mf										

**CONTROL UNIT COMPONENTS**

Capacitors		Resistors	
Designation	Value	Designation	Value
C201	3 x 0.5 mf	R201	56 ohms ± 10%
		R202	30,000 ohms ± 10%
		R203	56 ohms ± 10%

# RECEIVER

## Resistors

Value	Desig.	Value
1,000 ohms	R7.2C	1,000 ohms
1,000 ohms	R8.1C	1,000 ohms
1,000 ohms	R8.2C	1,000 ohms
1,000 ohms	R9C	23 ohms

## Resistors

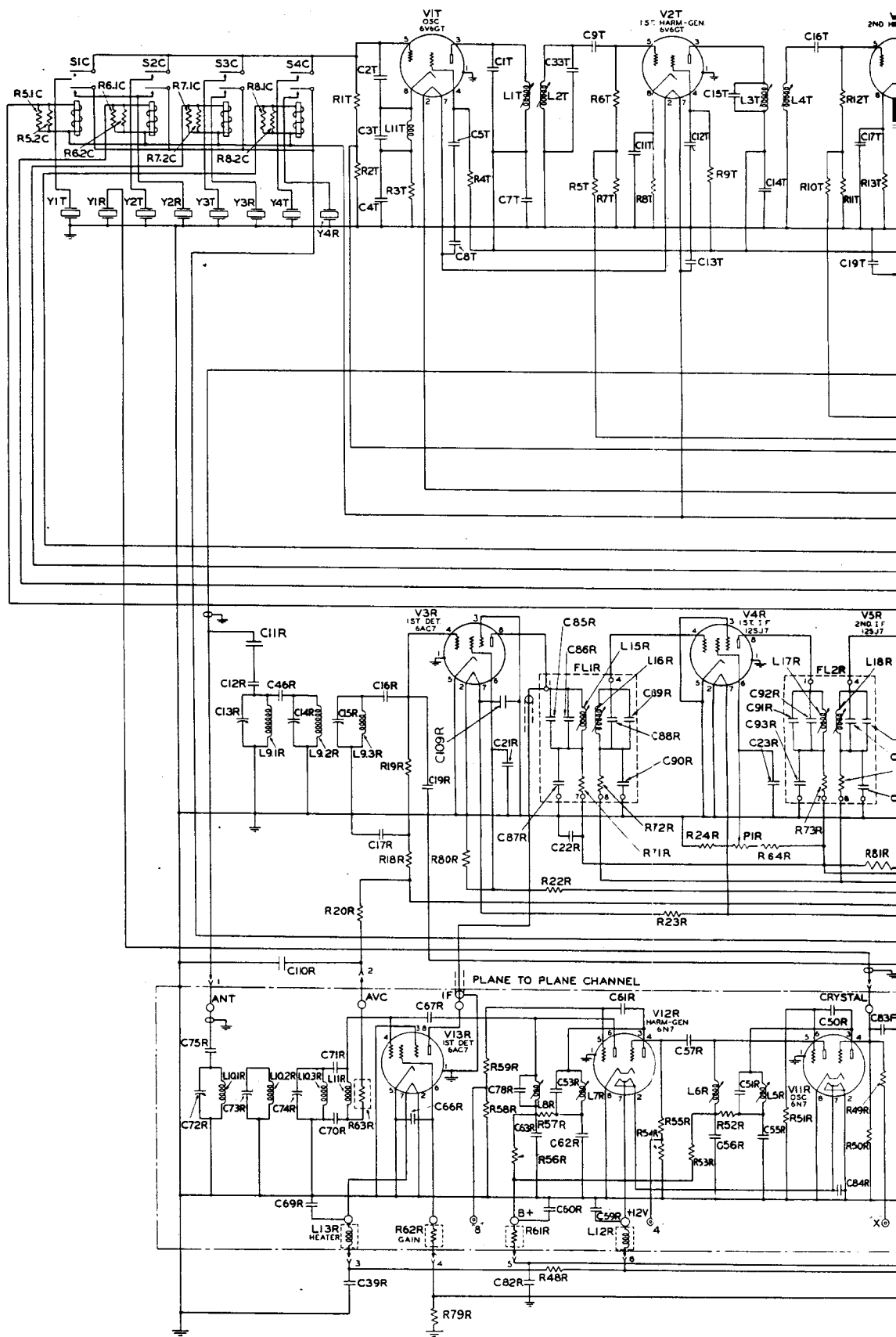
Value	Desig.	Value
0.1 meg.	R23T	300 ohms
1,000 ohms	R24T	0.03 meg.
0.01 meg.	R25.1T	0.015 meg.
0.1 meg.	R25.2T	0.015 meg.
500 ohms	R26T	300 ohms
400 ohms	R27T	0.03 meg.
800 ohms	R28T	0.25 meg.
0.01 meg.	R29T	100 ohms
0.02 meg.	R30T	0.05 meg.
500 ohms	R31T	0.5 meg.
750 ohms	R32T	200 ohms

## Resistors

Value	Desig.	Value
0.5 meg.	R59R	0.1 meg.
0.5 meg.	R61R	120 ohms
0.1 meg.	R62R	0.02 meg.
0.5 meg.	R63R	0.1 meg.
0.01 meg.	R64R	0.1 meg.
0.1 meg.	R67R	1,000 ohms
1,200 ohms	R68.1R	6,000 ohms
1,200 ohms	R68.2R	7,000 ohms
1,500 ohms	R68.3R	6,000 ohms
600 ohms	R68.4R	6,000 ohms
600 ohms	R68.5R	6,000 ohms
0.1 meg.	R68.6R	4,000 ohms
0.1 meg.	R68.7R	1,500 ohms
0.01 meg.	R70R	30 ohms
0.01 meg.	R71R	1,000 ohms
14 ohms	R72R	0.05 meg.
0.1 meg.	R73R	2,000 ohms
0.15 meg.	R74R	0.05 meg.
0.1 meg.	R75R	2,000 ohms
6,000 ohms	R76R	0.05 meg.
560 ohms	R77R	2,000 ohms
1,000 ohms	R78R	50,000 ohms
0.1 meg.	R79R	1 meg.
560 ohms	R80R	1 meg.
750 ohms	R81R	1,000 ohms
1,000 ohms	P1R	0.1 meg.

## Value

ns ± 10%  
ohms ± 10%  
ms ± 10%



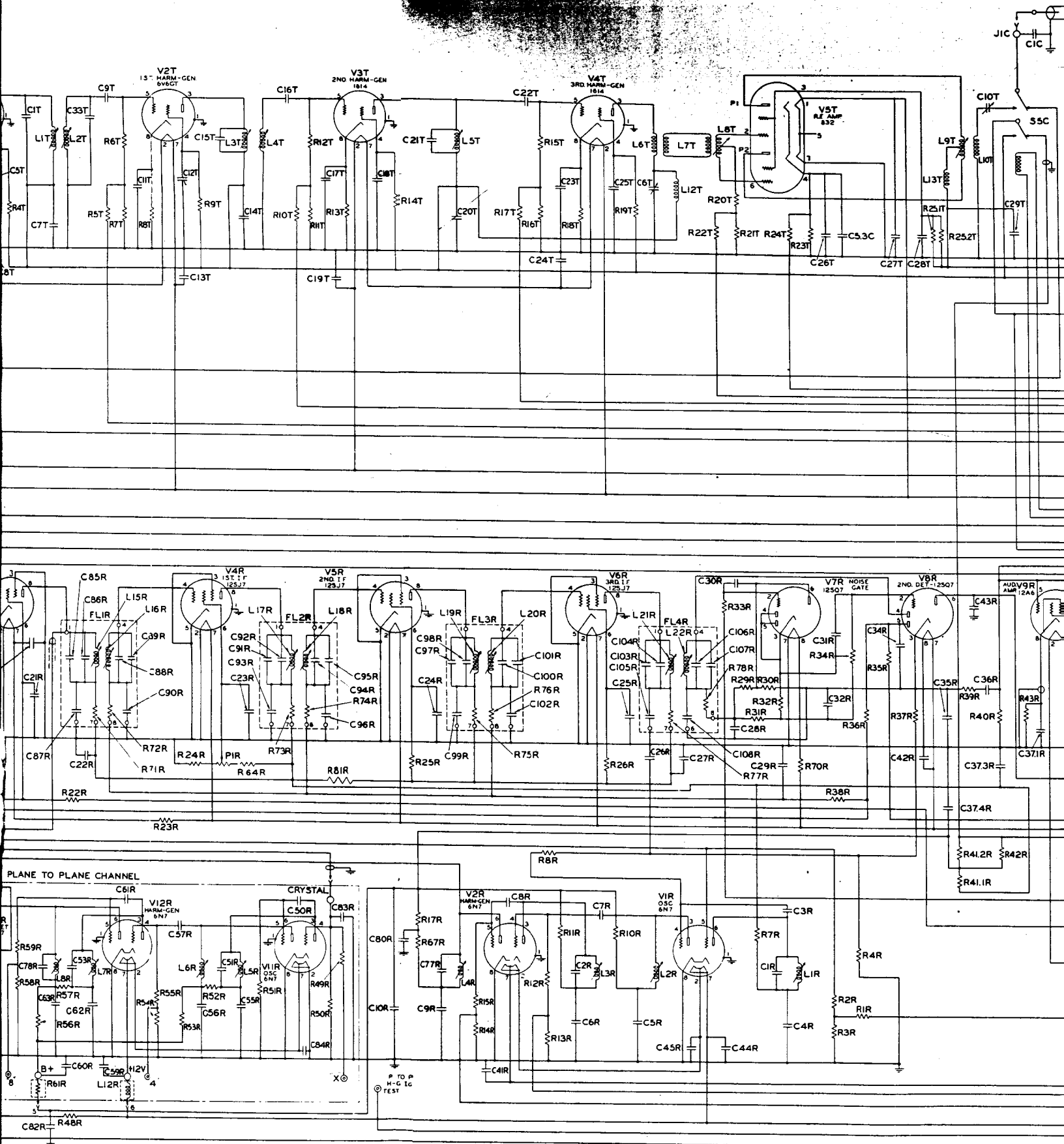
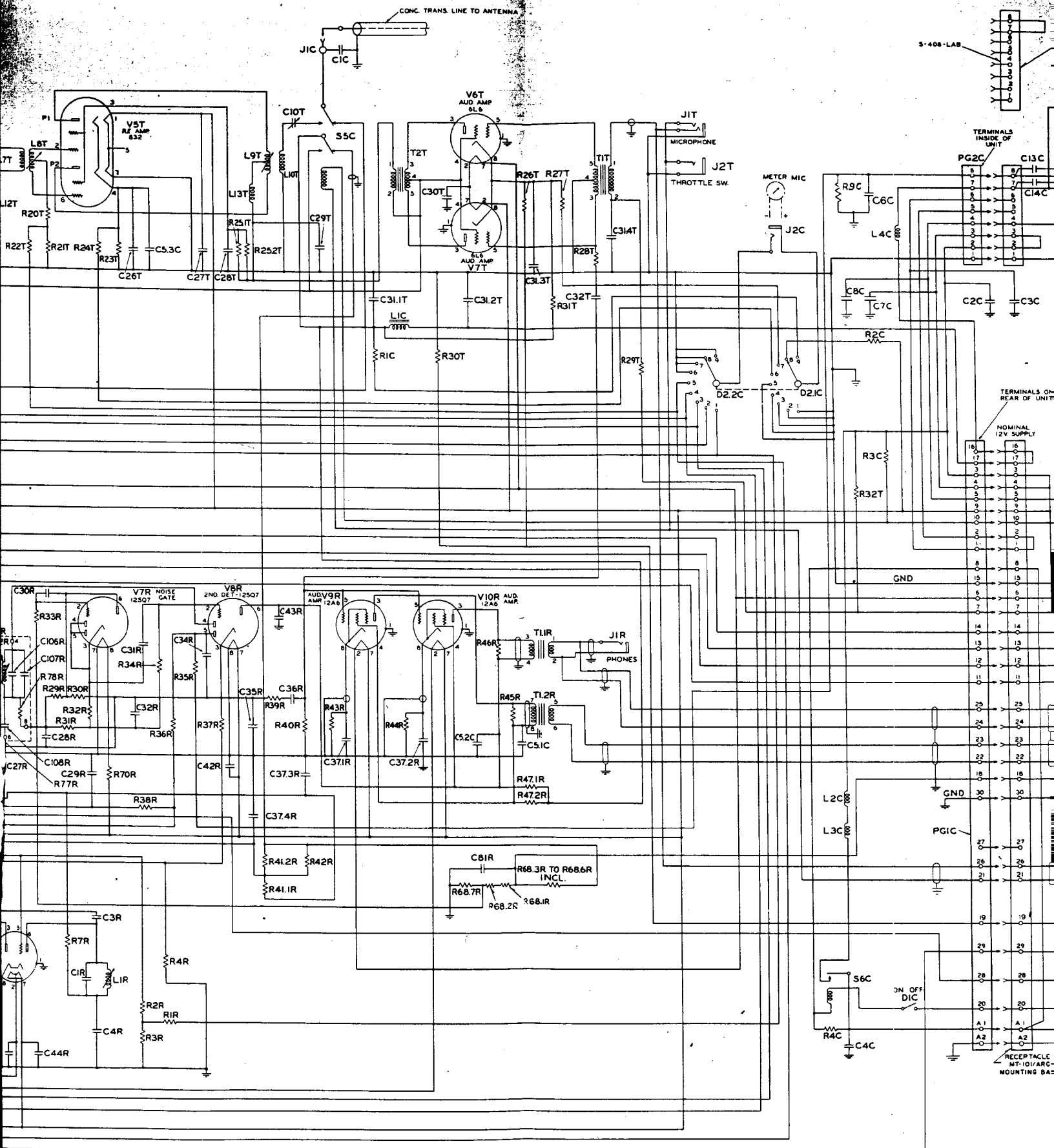


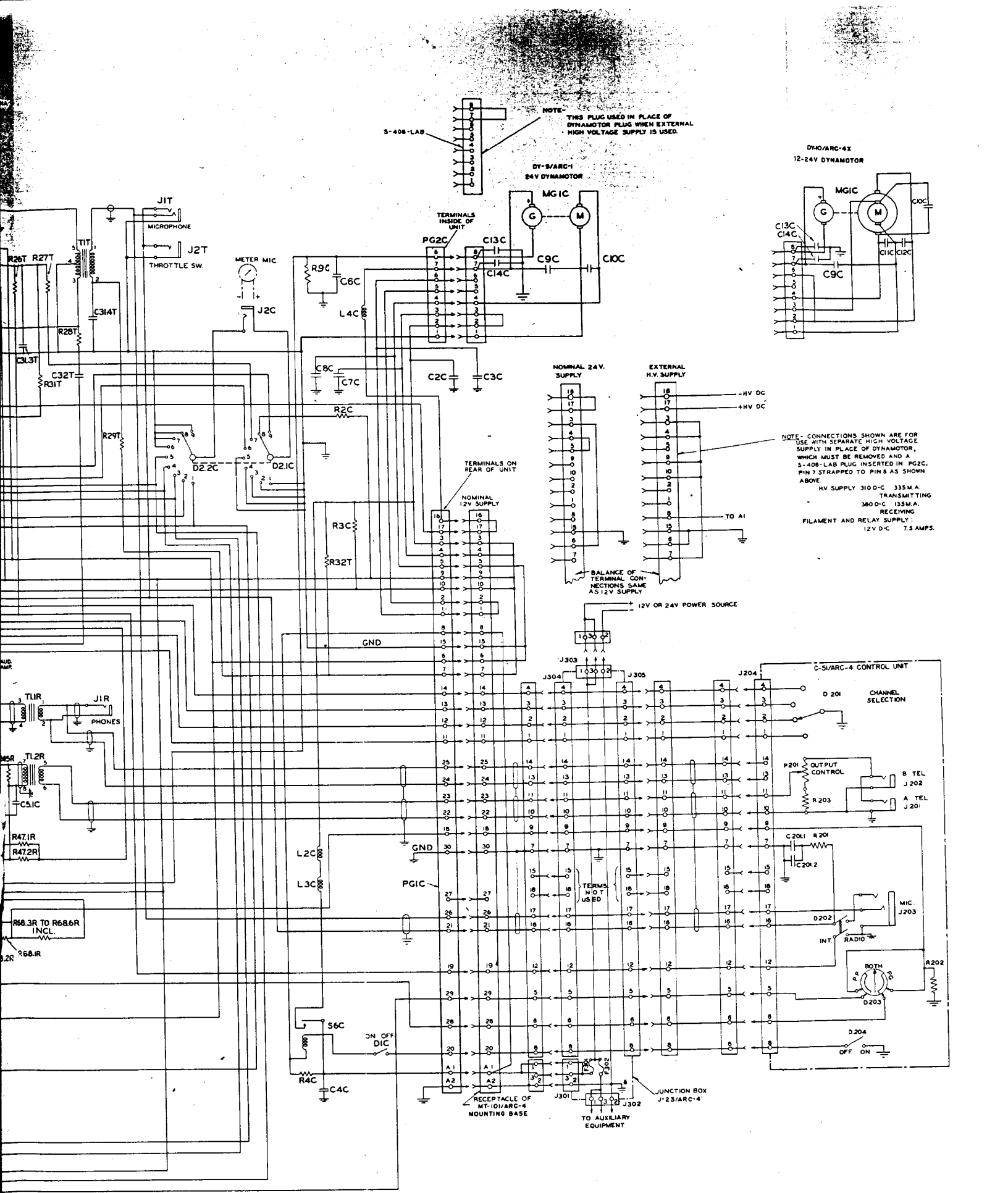
Figure 10—RT-19/ARC-4 Radio Transmitter-Receiver: Schem

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-19/ARC-4 Radio Transmitter-Receiver: Schematic Diagram of Circuit

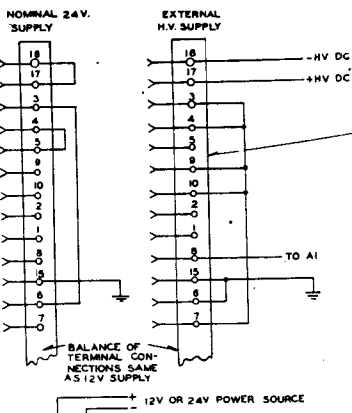
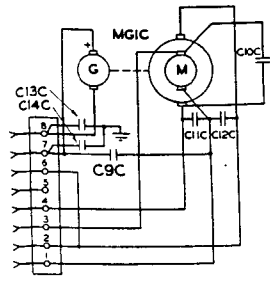
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5-408-LAB

NOTE: THIS PLUG USED IN PLACE OF DYNAMOTOR PLUG WHEN EXTERNAL HIGH VOLTAGE SUPPLY IS USED.

DY-8/ARC-1  
84V DYNAMOTOR



NOTE: CONNECTIONS SHOWN ARE FOR USE WITH SEPARATE HIGH VOLTAGE SUPPLY IN PLACE OF DYNAMOTOR, WHICH MUST BE REMOVED AND A 5-408-LAB PLUG INSERTED IN PG2C. PIN 7 STRAPPED TO PIN 8 AS SHOWN ABOVE.

HV SUPPLY 310 D-C 335 M.A. TRANSMITTING  
360 D-C 135 M.A. RECEIVING

FILAMENT AND RELAY SUPPLY:  
12V D-C 7.5 AMPS.