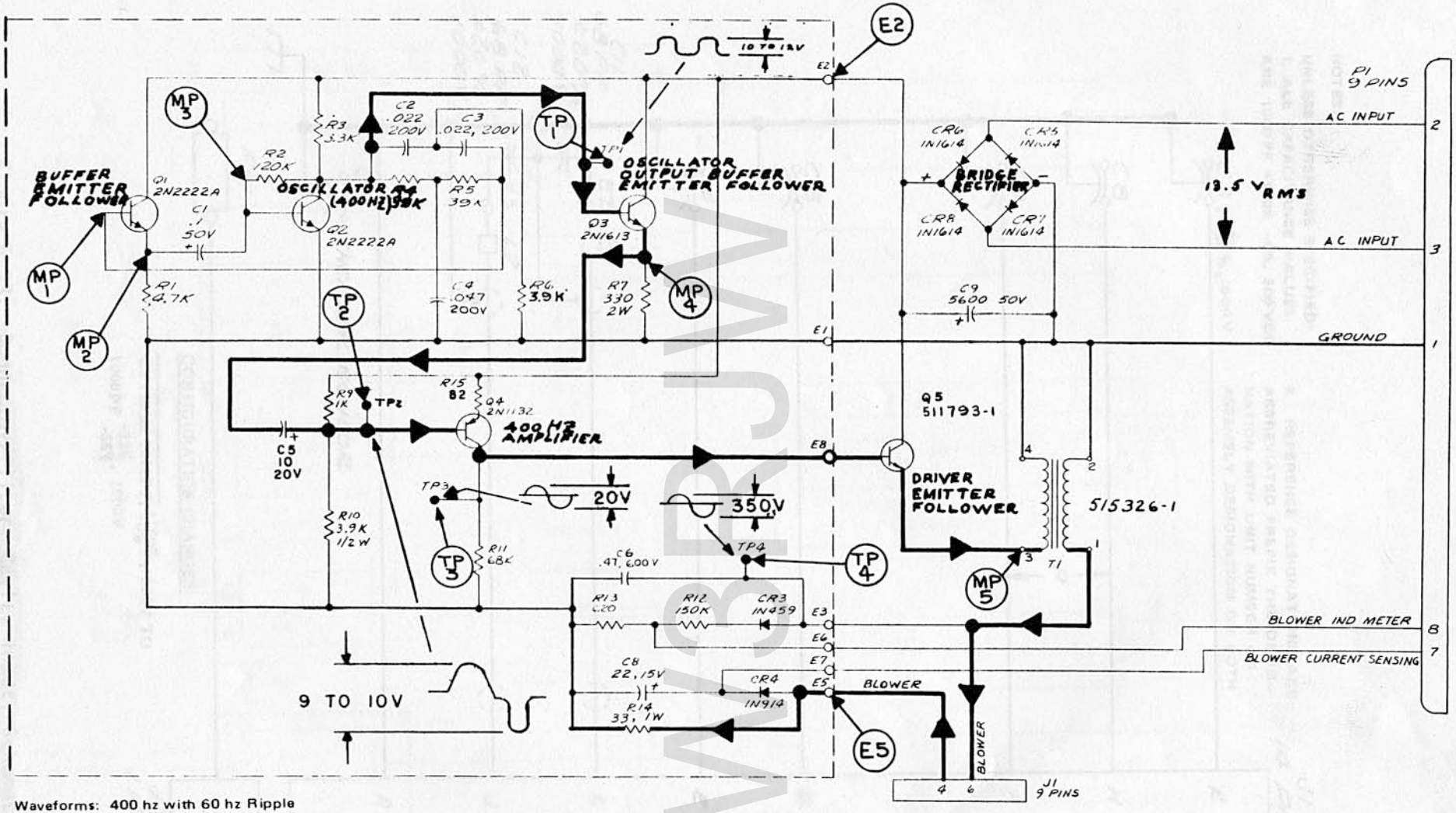


Waveforms: 400 hz with 60 hz Ripple

	UNKEYED	KEYED
TP1	8.0 VDC	8.0 VDC
TP2	14 VDC	14 VDC
TP3	0.8 VDC	0.8 VDC
TP4	0 VDC	0 VDC

EARLY CONFIGURATION

Q5 FROM 2N3771 TO 511793-1

R6 FROM 2.7K TO 3.9K

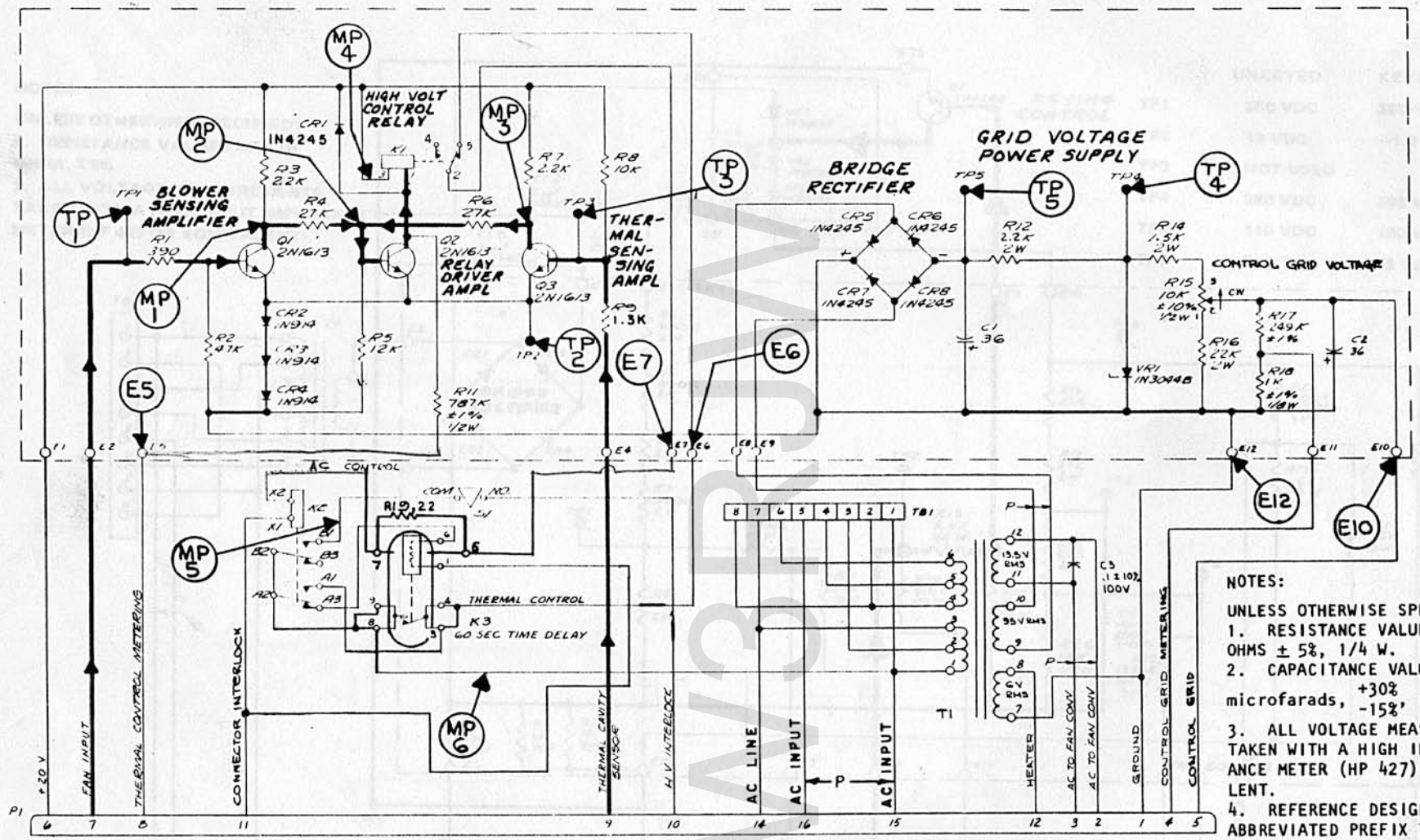
R11 FROM 68K TO 3.9K

R11 FROM 3.9K TO 68K

NOTES:

UNLESS OTHERWISE SPECIFIED:
1. RESISTANCE VALUES ARE IN OHMS, ± 5%, 1/4 WATT.
2. CAPACITANCE VALUES ARE IN MICROFARADS, ± 10%.
3. ALL VOLTAGE MEASUREMENTS TAKEN WITH A HIGH INPUT IMPEDANCE METER (HP 427 OR EQUIVALENT).
4. REFERENCE DESIGNATIONS ARE ABBREVIATED PREFIX THE DESIGNATION WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.

Figure 6-30. Converter, AC to AC A2, Schematic Diagram



NOTES:

UNLESS OTHERWISE SPECIFIED:
1. RESISTANCE VALUES ARE IN OHMS ± 5%, 1/4 W.
2. CAPACITANCE VALUES ARE IN microfarads, +30% -15%, 150 V.
3. ALL VOLTAGE MEASUREMENTS TAKEN WITH A HIGH INPUT IMPEDANCE METER (HP 427) OR EQUIVALENT.
4. REFERENCE DESIGNATIONS ARE ABBREVIATED PREFIX THE DESIGNATION WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.

CONFIGURATION CHANGES

ADDED LEAD FROM K3-3 TO K3-4, AND FROM K3-8 TO K3-9.

REMOVE WIRE FROM K3-1 TO JUNCTION OF TB1-7 AND P1-14. PLACE WIRE FROM K3-1 TO P1-11.

R19 ADDED

	NORMAL	AMPL THERMAL CUT OUT	BLOWER INOPERATIVE
TP1	3.5 VDC	3.5 VDC	0 VDC
TP2	3.0 VDC	3.0 VDC	3.0 VDC
TP3	3.5 VDC	2.0 VDC	3.5 VDC
	UNKEYED	KEYED	
TP4	-100 VDC	-100 VDC	
TP5	-130 VDC	-130 VDC	

Figure 6-27. Power Supply, Control Grid/Thermal Control/AC Control A3, Schematic Diagram

measured

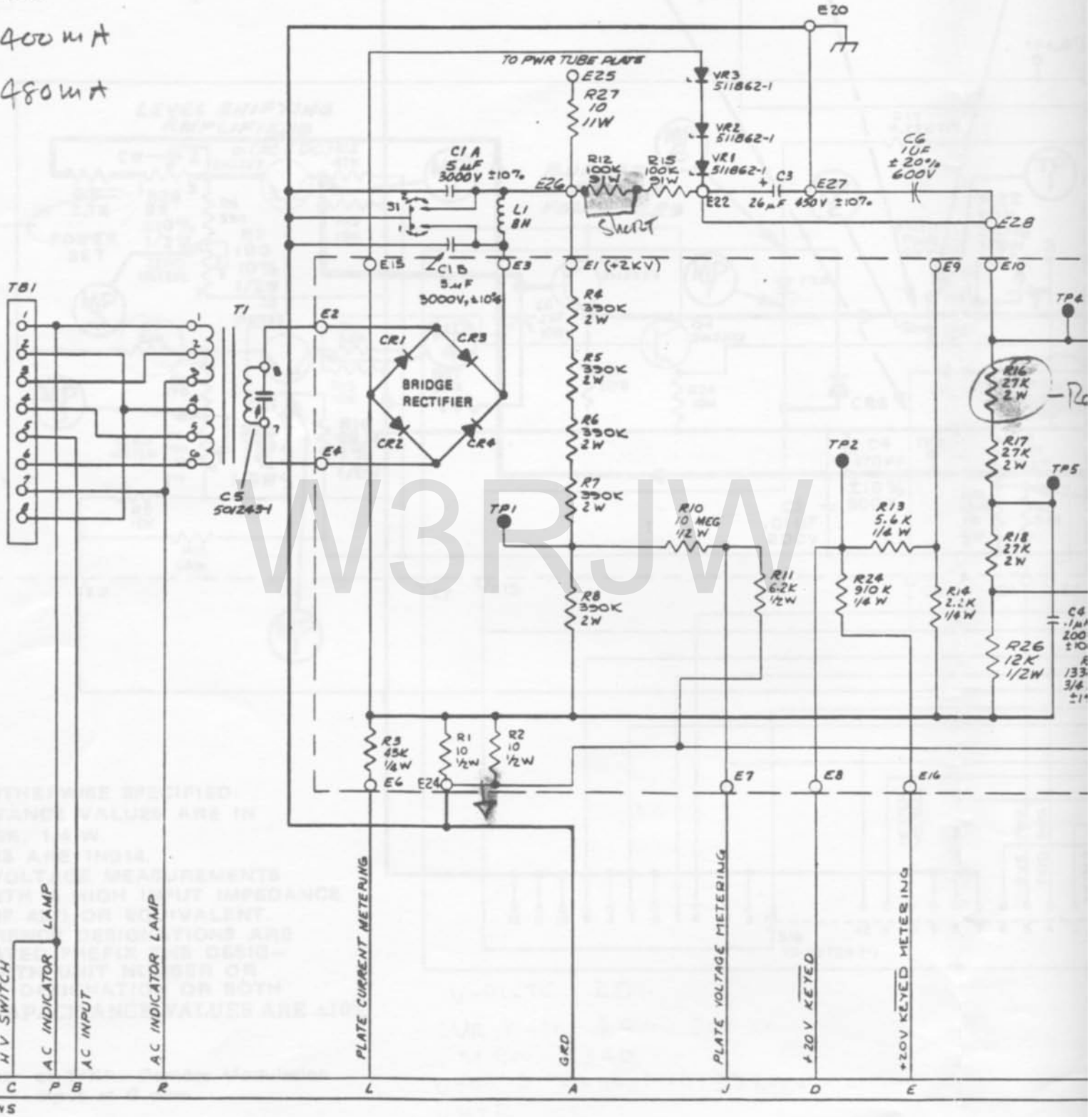
76mA CATH + SCREEN

140mA

280mA

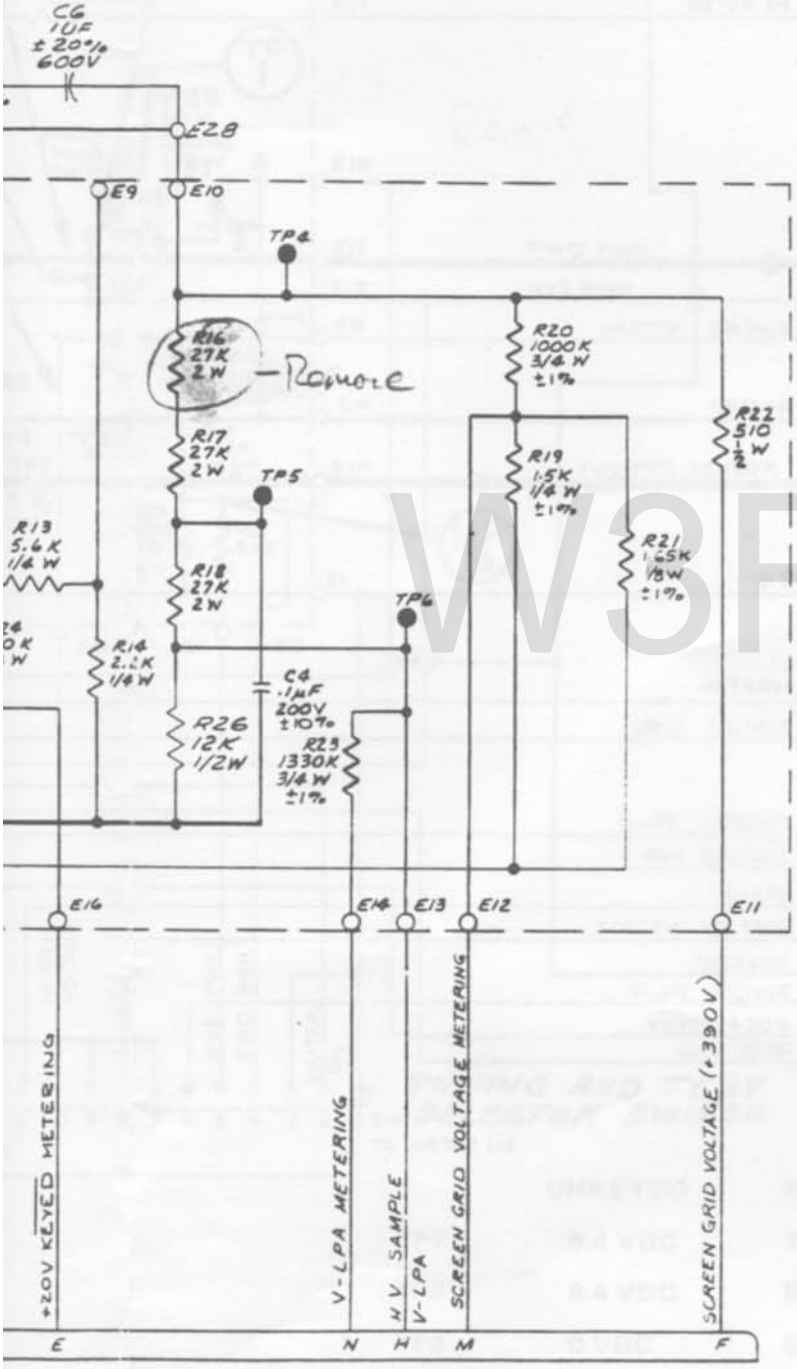
400mA

480mA



NOTES:
UNLESS OTHERWISE SPECIFIED:

1. ALL RESISTANCE VALUES ARE IN OHMS, ±5%, ¼W.
2. ALL VOLTAGE MEASUREMENTS TAKEN WITH A HIGH INPUT IMPEDANCE METER (HP 427 OR EQUIVALENT)
3. REFERENCE DESIGNATIONS ARE ABBREVIATED. PREFIX THE DESIGNATION WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.



	UNKEYED	KEYED
TP1	550 Vdc	380 Vdc
TP2	19 Vdc	1.0 Vdc
TP3	NOT USED	
TP4	390 Vdc	390 Vdc
TP5	110 Vdc	160 Vdc
TP6	34 Vdc	48 Vdc

CONFIGURATION CHANGES

R15 FROM 15K, 31W TO 100K, 91W
C2 DELETED
E21 AND CIRCUIT TO E20 DELETED

Q1 DELETED
E23 DELETED

R22 FROM 220 OHMS TO 2.7K

S1 ADDED

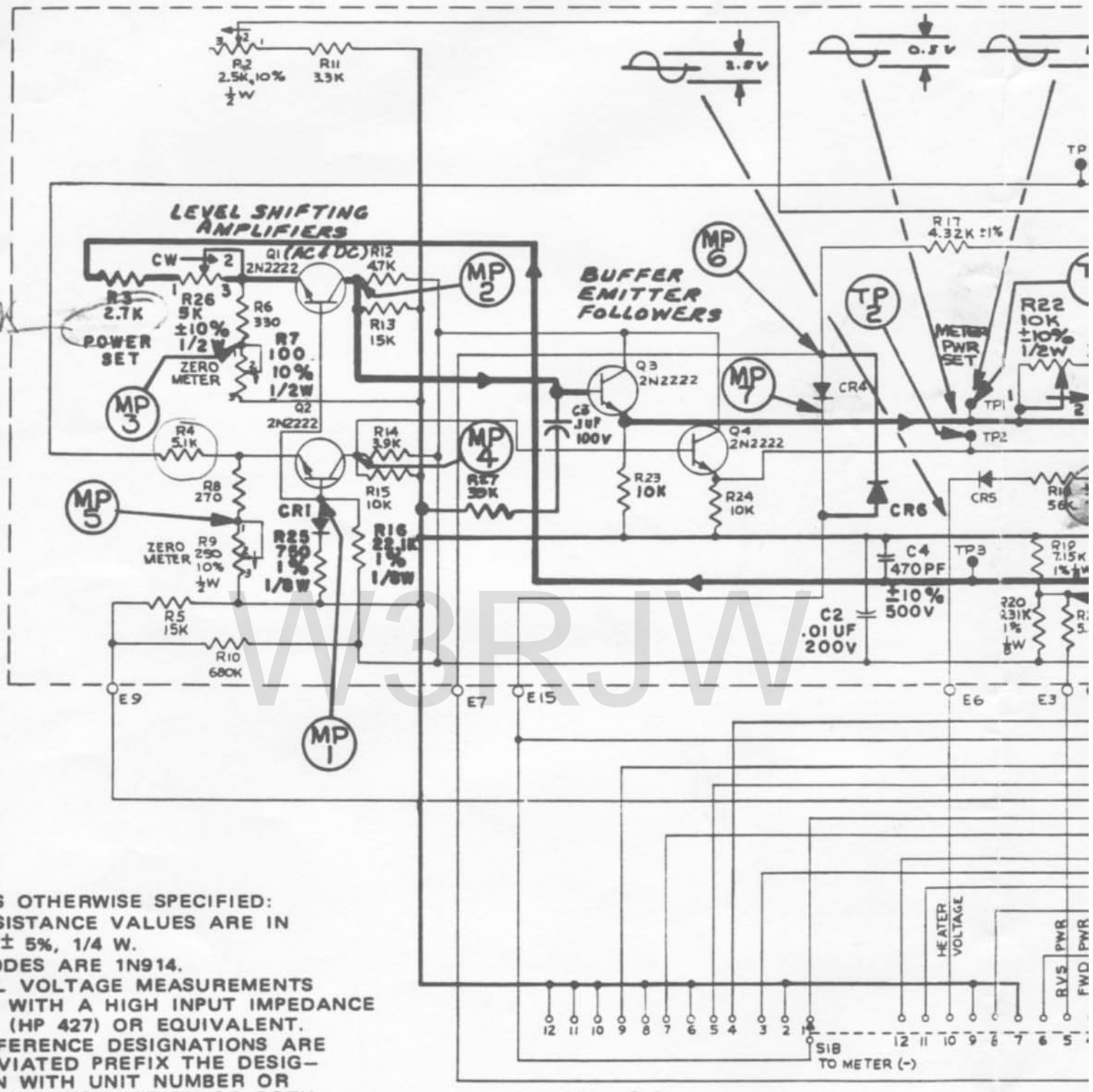
VR1, VR2, VR3 FROM 1N3009B TO 511862-1

C5 ADDED

E19 DELETED
E24 THRU E28 ADDED
C6, R27 ADDED
R22 FROM 2.7K TO 510 OHMS

ROTRON
SERIES 1268 AS
5500 RPM
1mF 115
400 HZ

Figure 6-29A. **Power Supply, Plate/Screen Grid A4, Schematic Diagram (Latest Configuration)**



OTES:

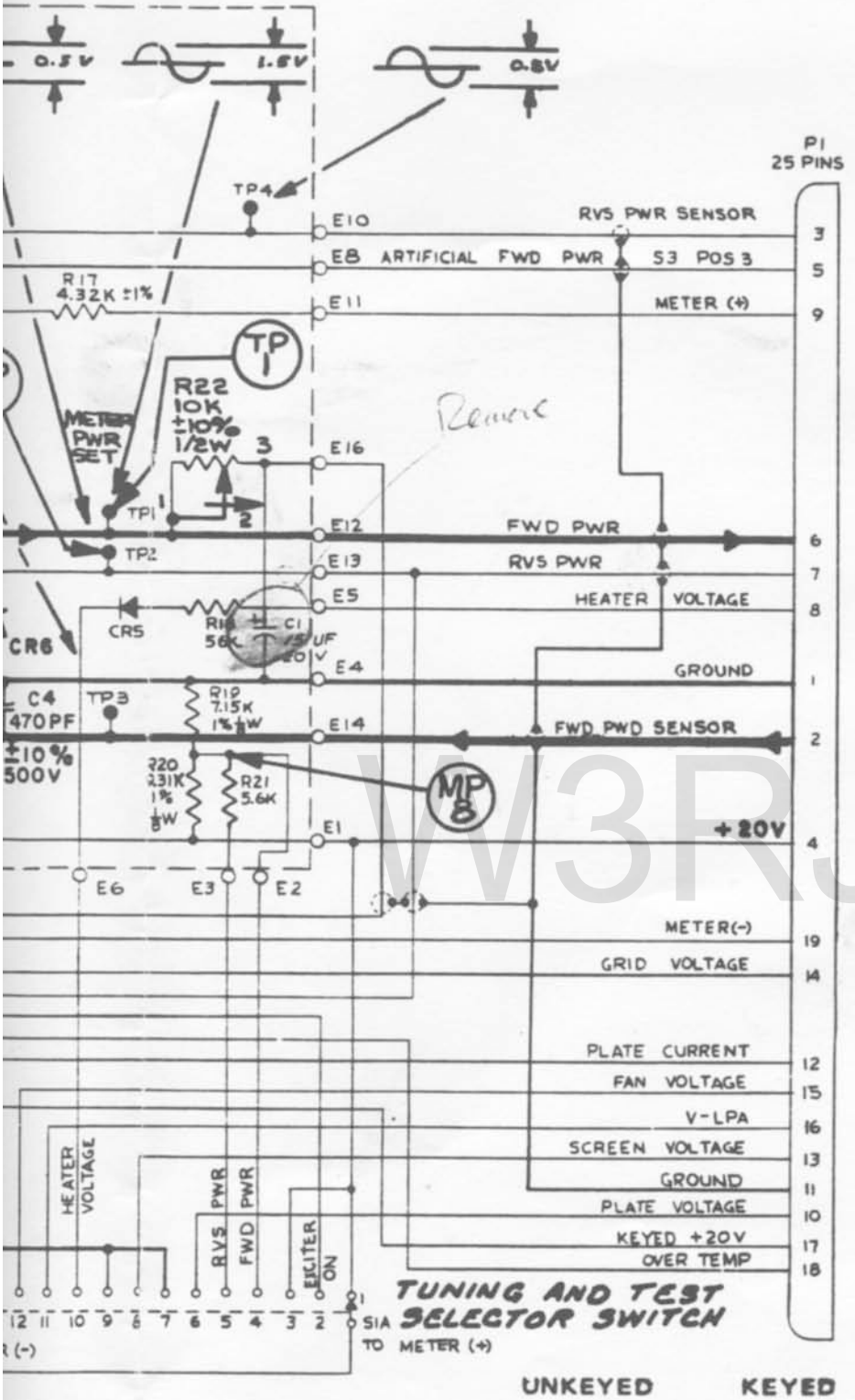
LESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN
HMS, ± 5%, 1/4 W.
DIODES ARE 1N914.
ALL VOLTAGE MEASUREMENTS
AKEN WITH A HIGH INPUT IMPEDANCE
ETER (HP 427) OR EQUIVALENT.
REFERENCE DESIGNATIONS ARE
BBREVIATED PREFIX THE DESIG-
ATION WITH UNIT NUMBER OR
SEMBLY DESIGNATION OR BOTH
ALL CAPACITANCE VALUES ARE ±10%

Waveforms: at 1 Khz Remote Modulation input at 0 dbm

V-PLATE 20
2ND PLATE - 6 Ω 200 Ω
V-SCREEN 340
V-GRID -50 UNKEYED 37 KEYED
VHTR 23

EXCTR 15
KEY 17

8/85 New



	UNKEYED	KEYED
TP1	8.4 VDC	7.8 VDC
TP2	8.4 VDC	8.3 VDC
TP3	0 VDC	0 VDC
TP4	0 VDC	−0.3 VDC

EARLY CONFIGURATION
R3 FROM 5.1K TO 3.3K
R22 FROM 5.6K TO 10K, 1/2W ±10%
R26 ADDED, 5K, 1/2W ±10%

CONFIGURATION CHANGES

R3 FROM 3.3K TO 2.7K

R23 FROM 1K TO 10K
R26 FROM 2K TO 5K
R27 ADDED, 39K, 1/4W, ±5%
C3 ADDED 0.1 UF, 100V, ±10%

R7 FROM 250 OHMS TO 100 OHMS
R16 FROM 3.01K, 1/4W TO 22.1K, 1/8W
R25 FROM 90.9 OHMS TO 750 OHMS
CR6 ADDED
C4 ADDED, 470 PF, 500V, ±10%

Figure 6-31. Buffer Amplifier/Multiplier, Electrical Instrument A5, Schematic Diagr

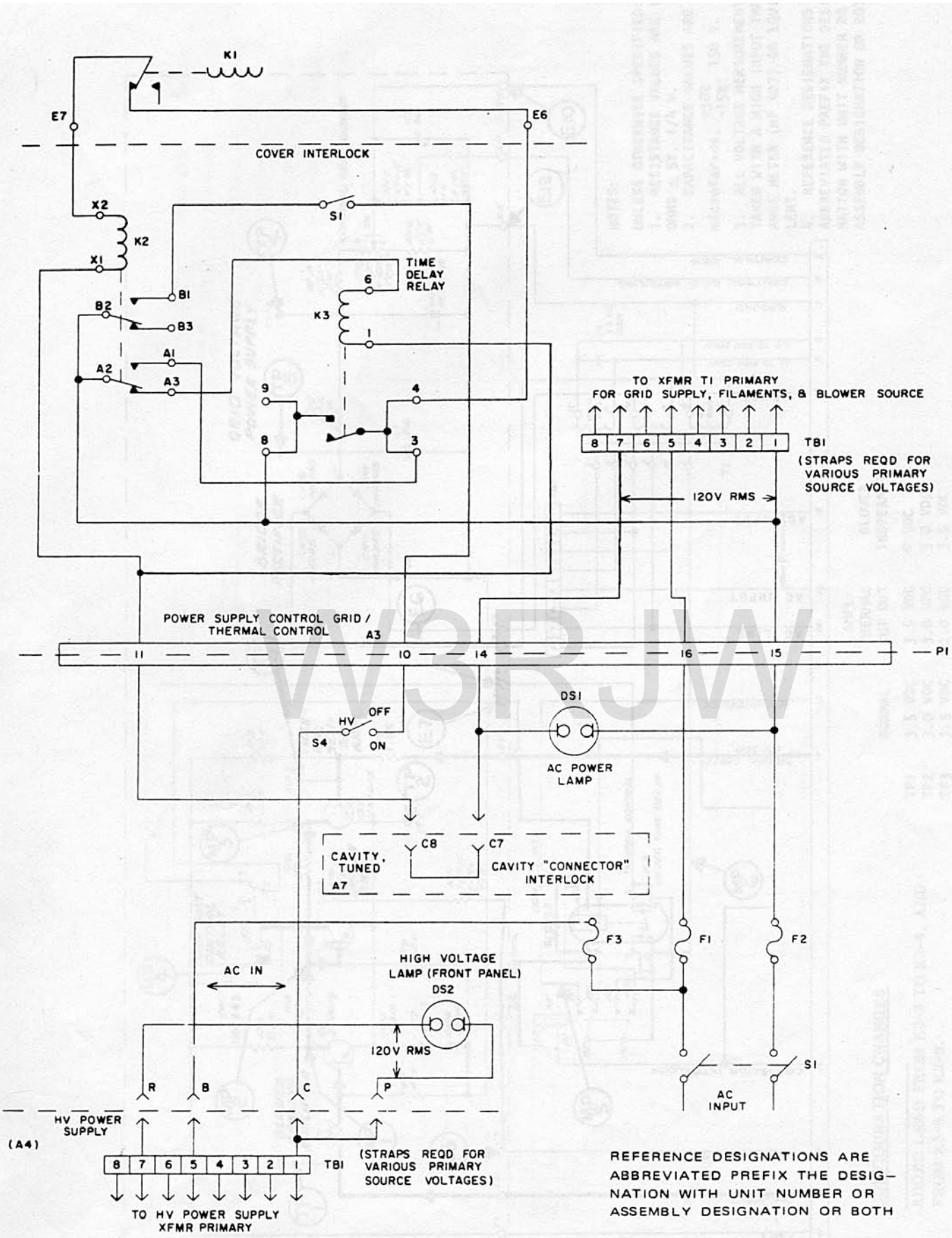


Figure 6-28. AC Control Circuits, Schematic Diagram

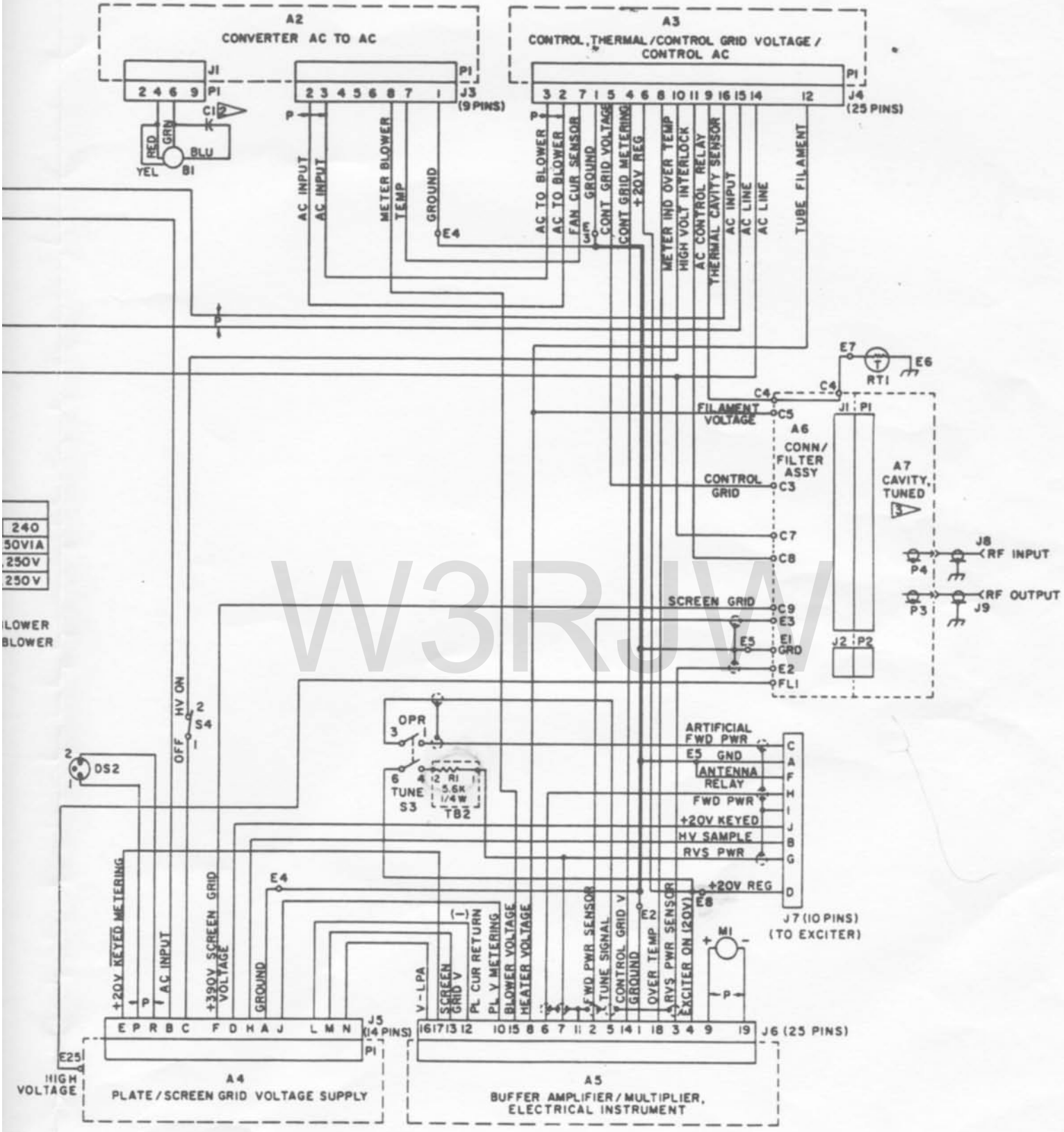
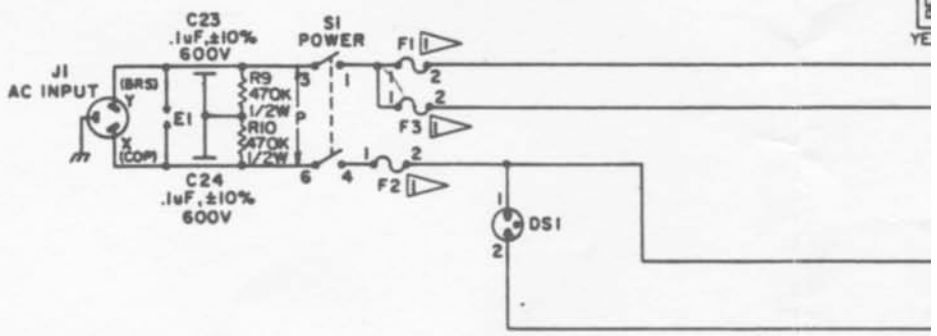


Figure 6-24. Power Amplifier, Schematic Diagram

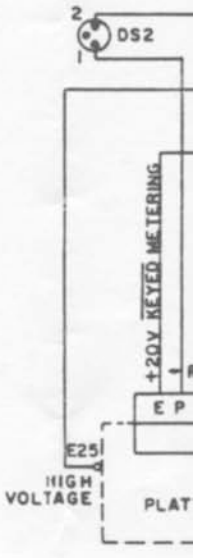


NOTES:

1. FUSE VALUES:

	VOLTAGE			
	105	120	210	240
F1	3AMP, 250V	F02A250V1A		
F2	15AMP, 250V	10AMP, 250V		
F3	10AMP, 250V	10AMP, 250V		

2. VALUE FOR C1:
   .1uF, 600V WHEN USING 500627-1 BLOWER
   .15uF, 600V WHEN USING 500627-2 BLOWER
3. FOR VHF SEE FIGURE 6-25
   FOR UHF SEE FIGURE 6-26



CONFIGURATION CHANGES

RT1 FROM 509416-1 TO 509416-2

F1 FROM 3A TO 2A

E1 CHANGED TO E25

R9 AND R10 ADDED

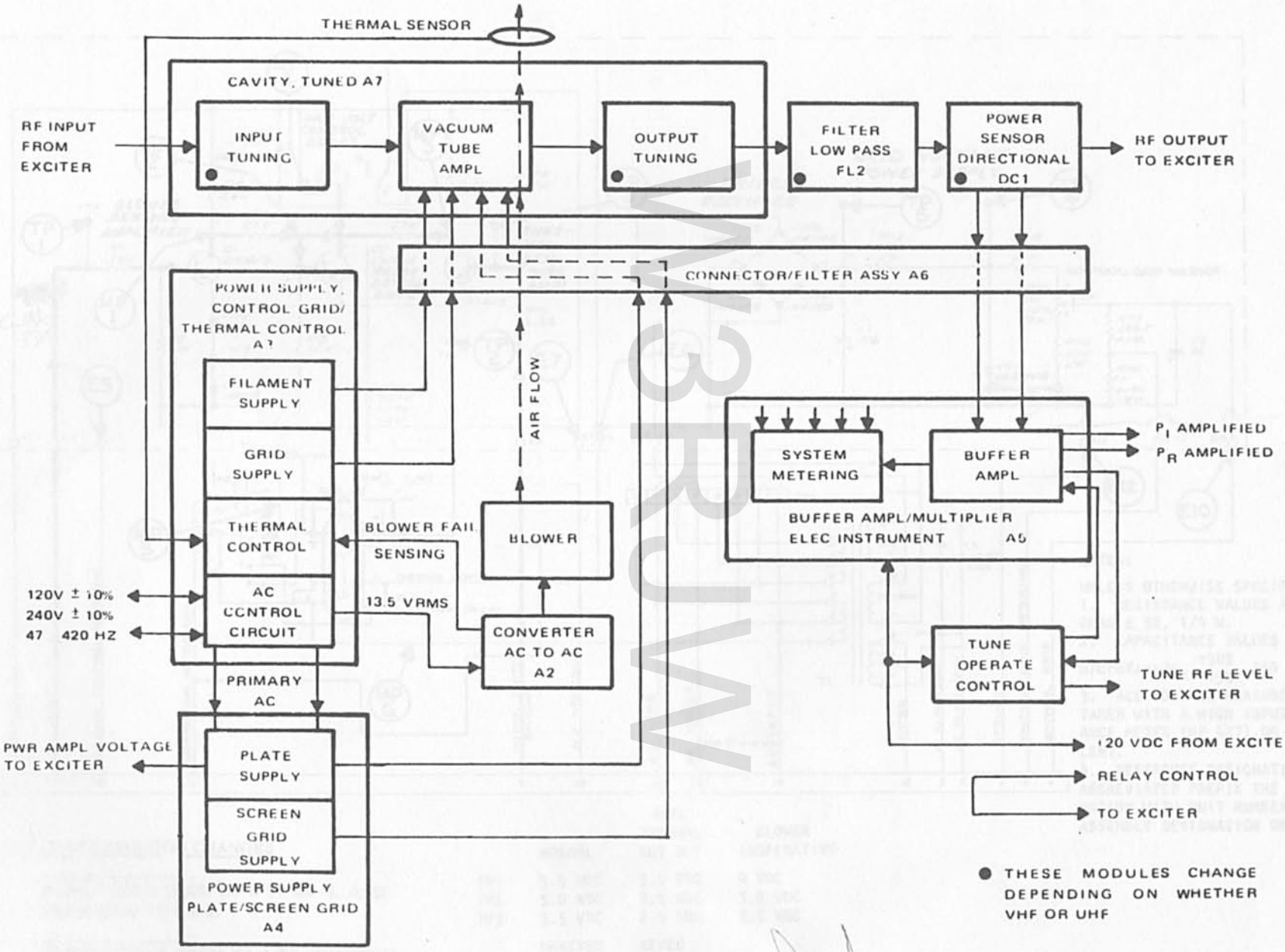


Figure 6-2. VHF/UHF Power Amplifier (Unit 2) Block Diagram

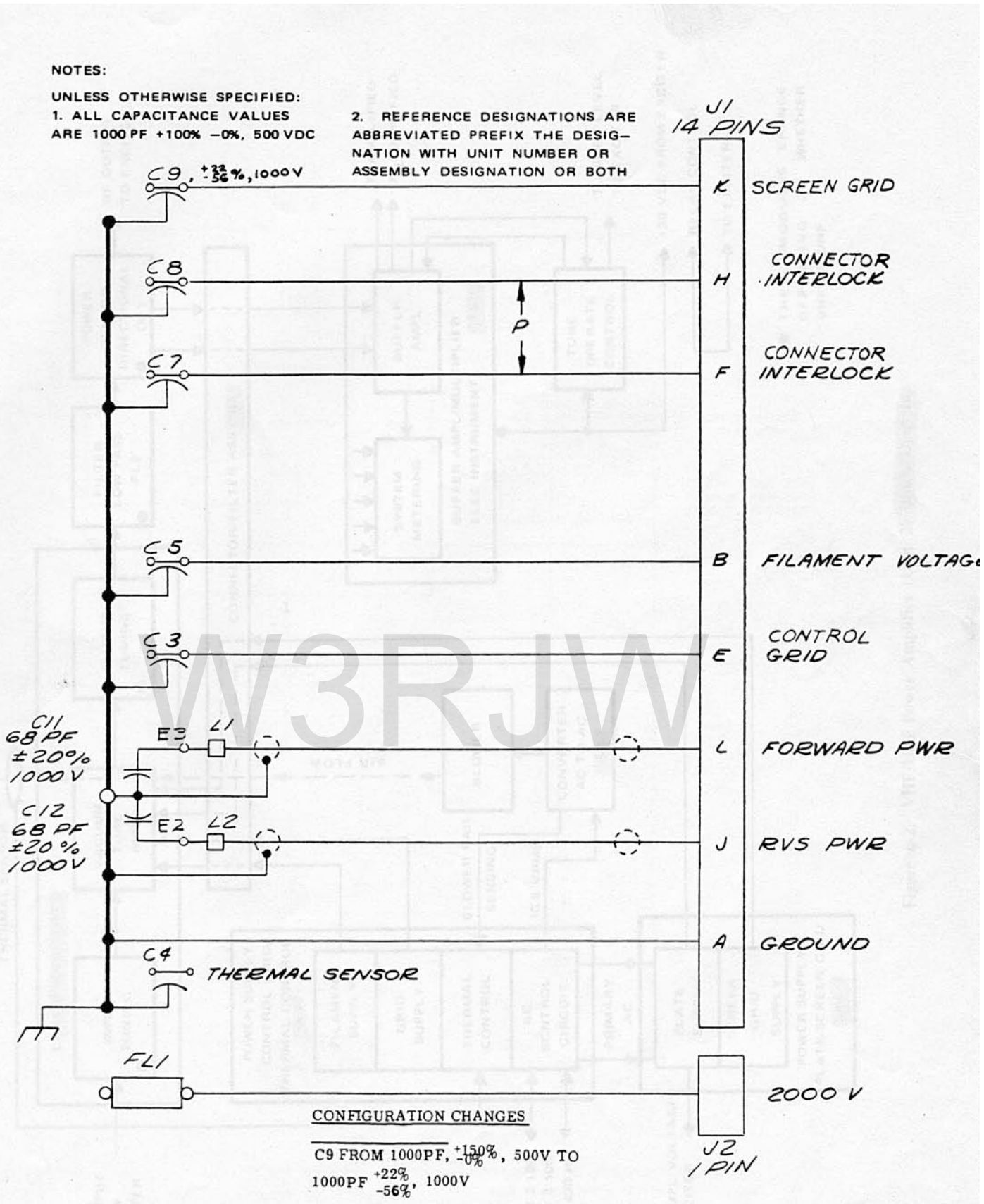
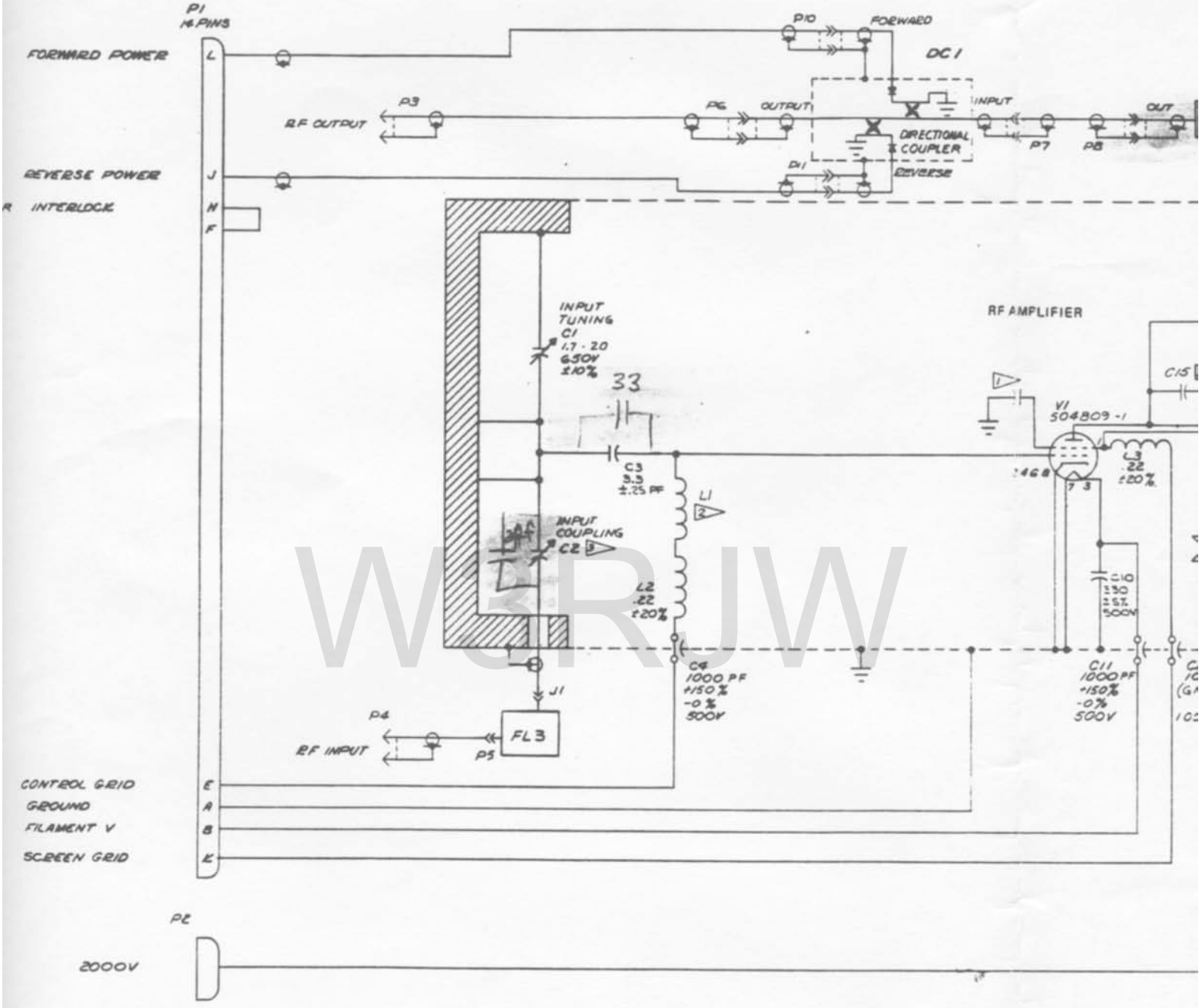
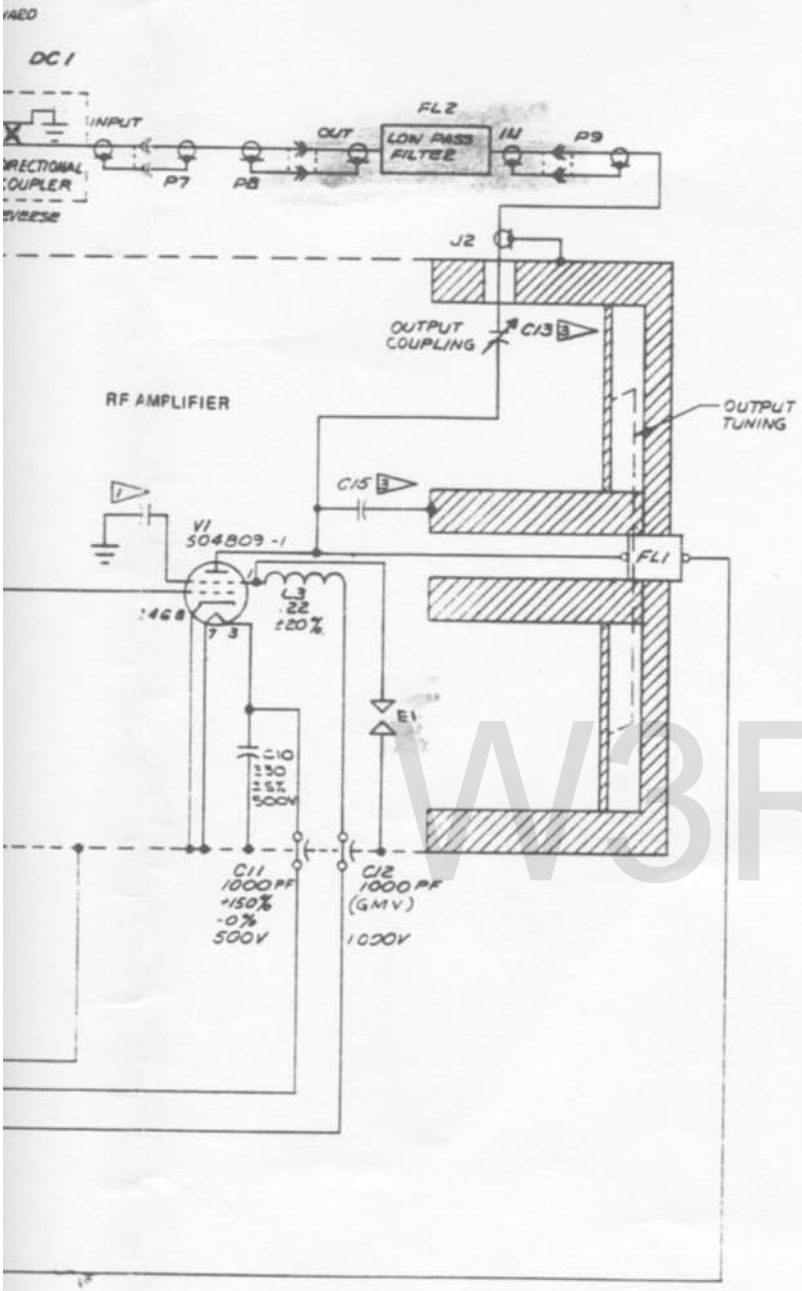


Figure 6-33. Connector/Filter, Cavity Input, Schematic Diagram



NOTES:
UNLESS OTHERWISE SPECIFIED:

1. CAPACITANCE IS BUILT INTO TUBE SOCKET.
2. FERRITE BEAD 512134-1.
3. FACTORY MANUFACTURED.
4. ALL CAPACITANCE VALUES ARE IN PICOFARADS, ±10%, 1000V.
5. ALL INDUCTANCE VALUES ARE IN MICROHENRIES.
6. REFERENCE DESIGNATIONS ARE ABBREVIATED. PREFIX THE DESIG
   OR ASSEMBLY DESIGNATION OR BOTH.



EARLY CONFIGURATION
C3, C5, C6 FROM ±10% TO ±0.1 pF

CONFIGURATION CHANGES

C3, C5, C6 FROM ±0.1 pF TO ±0.25 pF

C5, C6 DELETED

C12 FROM 1000 pF, (+100% - 0%), 500V TO ±20%, 100V

C10 FROM 470 pF, ±10%, 100V TO 300 pF, ±5%, 500V

E1 ADDED

C3 FROM 1000V TO 500V

C1 FROM 1.2 - 20, 375V TO 2.2 - 19.9 VRMS
C3 FROM 3.3 pF, ±0.1 pF, 1000 Vdc TO 3.6 pF, ±0.25 pF, 1500 VRMS AT 60 Hz

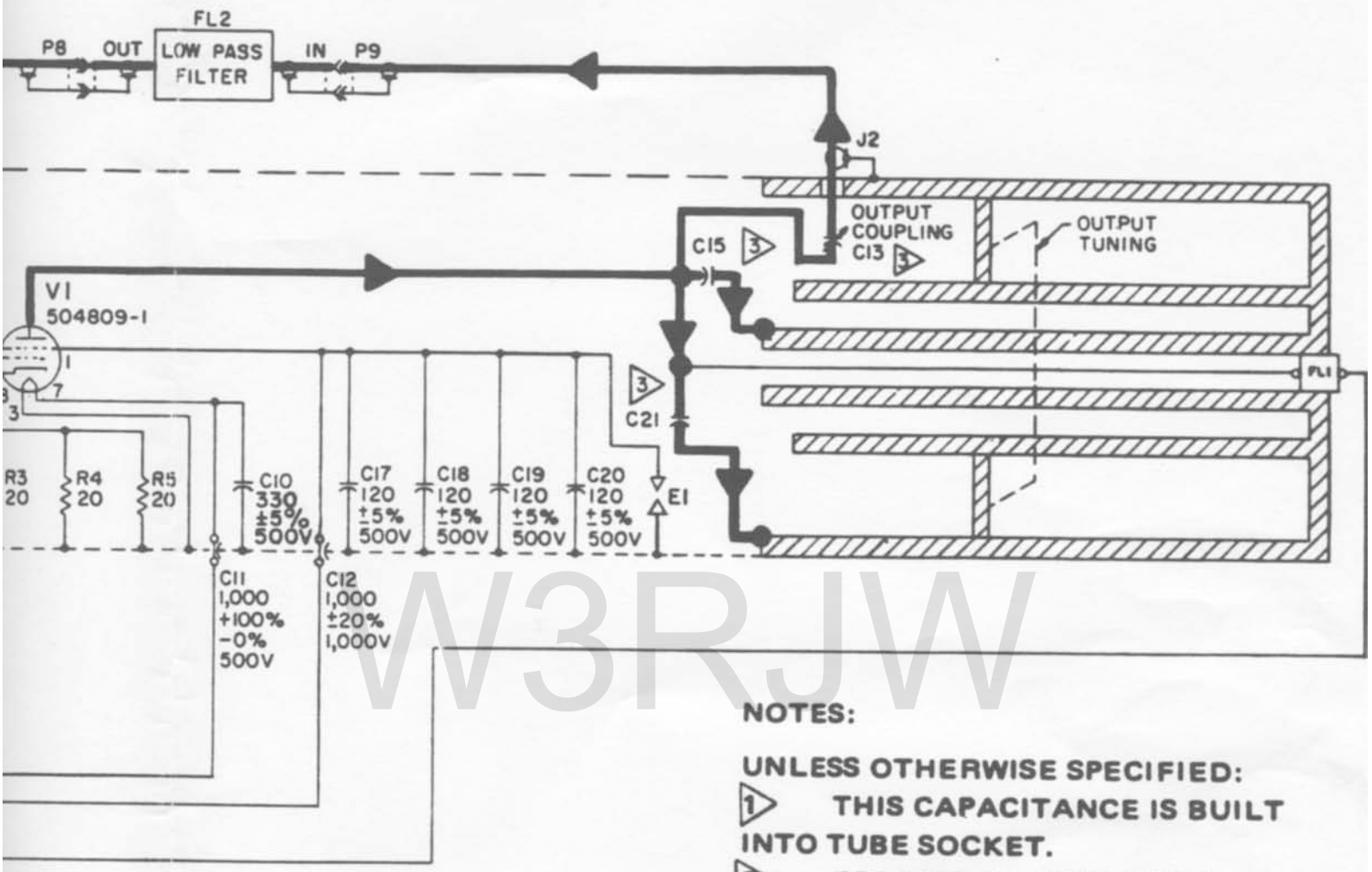
E1 FROM 501204-2 TO 501204-3

FL3 ADDED

TUBE SOCKET.

ARE IN PICOFARADS, ±10%, 1000V.
RE IN MICROHENRIES.
ARE ABBREVIATED. PREFIX THE DESIGNATION WITH UNIT NUMBER
OR BOTH.

Figure 6-26. Tuned Cavity (UHF) A7, Schematic Diagram



NOTES:

UNLESS OTHERWISE SPECIFIED:

1. THIS CAPACITANCE IS BUILT INTO TUBE SOCKET.
2. FERRITE BEAD 512134-1.
3. FACTORY MANUFACTURED.
4. RESISTANCE VALUES ARE IN OHMS ± 5%, 1/4 WATT.
5. CAPACITANCE VALUES ARE IN PICOFARADS, ± 10%, 1000 V.
6. INDUCTANCE VALUES ARE 1.0 MICROHENRIES ± 10%.
7. REFERENCE DESIGNATIONS ARE ABBREVIATED PREFIX THE DESIG-NATION WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH

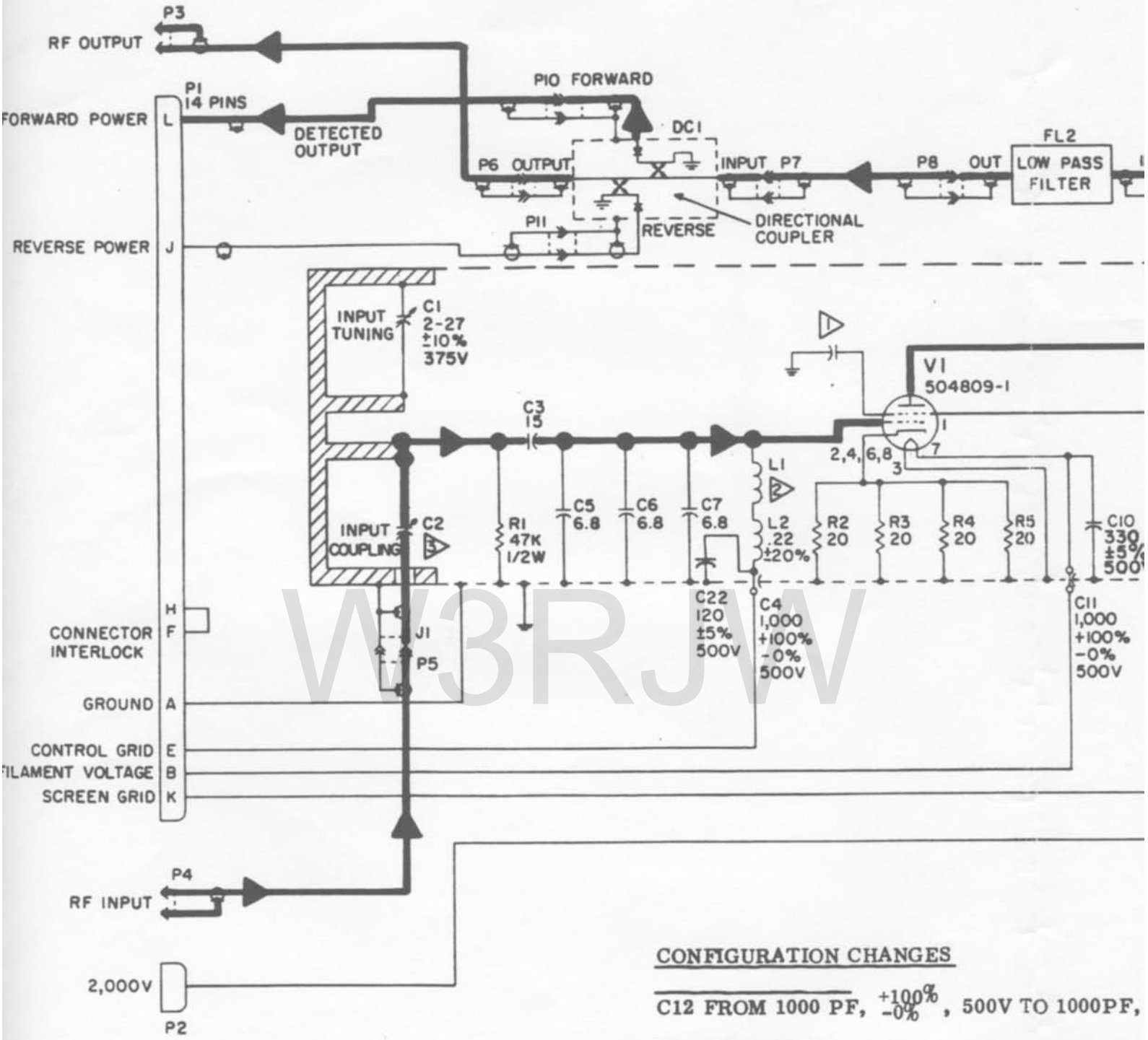
NGES

100%
0% , 500V TO 1000PF, ±20%, 1000V

V, ±10% TO 330PF, ±5%, 500V

09204-3

Figure 6-25. Tuned Cavity (VHF) A7, Schematic Diagram



CONFIGURATION CHANGES

C12 FROM 1000 PF, $^{+100\%}_{-0\%}$, 500V TO 1000PF,

C10 FROM 470 PF, 100V, ±10% TO 330PF, ±5%

E1 ADDED

E1 FROM 509204-2 TO 509204-3