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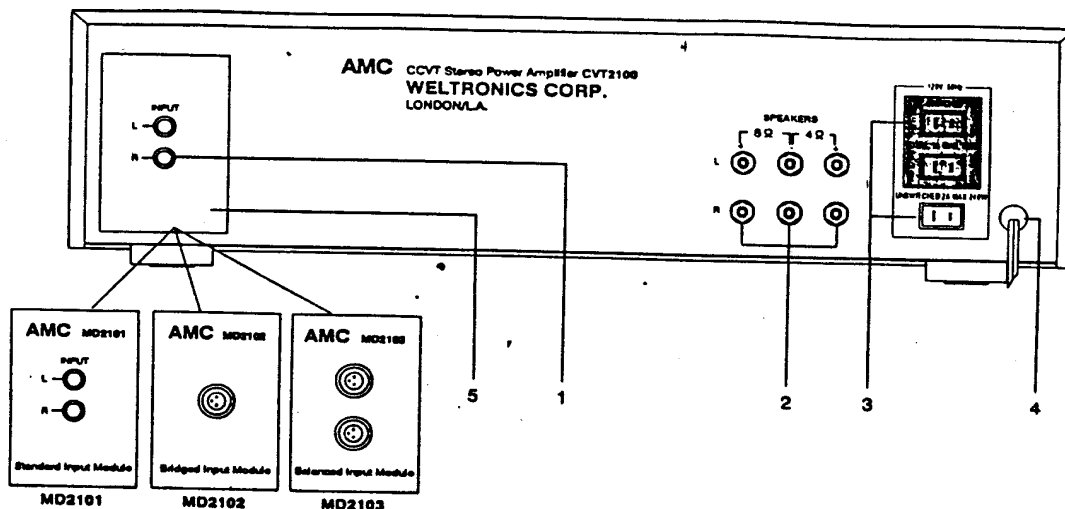
SERVICE MANUAL

CVT2100

VALVE POWER AMPLIFIER

REAR PANEL CONNECTIONS/FRONT PANEL CONTROLS

REAR PANEL



1. INPUT MODULE

2. LOUDSPEAKER TERMINALS

3. AC CONVENIENCE OUTLETS

4. AC LINE CORD

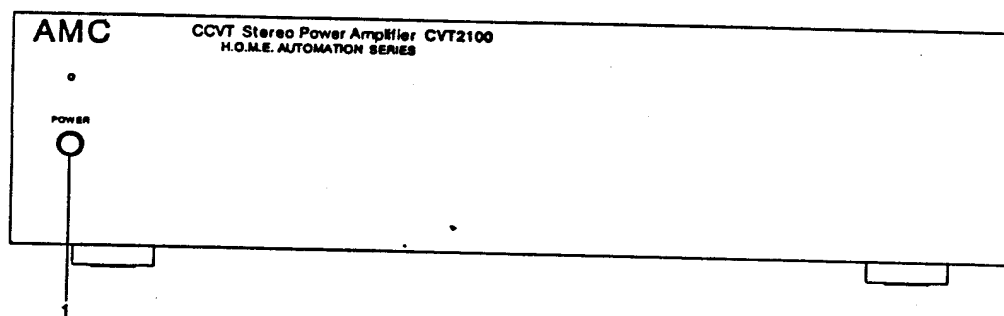
5. MD21XX Modules;

MD2101, Standard Input Module Included

MD2102, Bridge & Balanced Input Module - Option

MD2103, Balanced Input Module - Option

FRONT PANEL

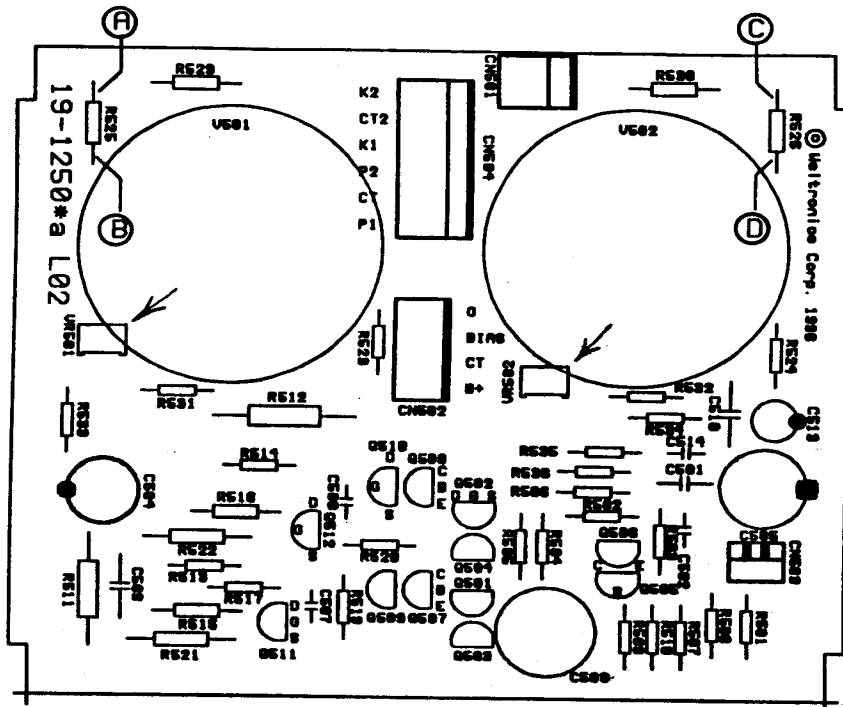


1. POWER SWITCH

SPECIFICATIONS

Power output into 8/4 ohms.....	80W
With both channels driven	
With balanced bridged input module.....	160W
Rated T.H.D. 45Hz-20KHz.....	1.0%
1KHz clipping power into 8/4 ohms.....	85W
Input sensitivity for 1W/80W into 8 ohms.....	138mV/1230mV
Input impedance.....	500K ohms/470pF
Frequency response:	
20Hz-20KHz.....	+/-0.5dB
-3dB.....	10Hz/80KHz
Signal to noise ratio (ref. 1W/8 ohms):	
"A" WTD.	95dB
UN-WTD.	85dB
Separation 20Hz-20KHz.....	> 65dB
Overall feedback.....	14dB
Dimensions (WxHxD).....	430x112x288mm
Net weight.....	19Kg
Shipping weight.....	20Kg

POWER AMPLIFIER ADJUSTMENT



IMPORTANT NOTES:

1. Make sure the primary voltage to be connected is accurately as the unit defined.
2. Before adjusting, turn VR501 clockwise and VR502 counterclockwise to the end position. (value of semi-potentiometer are setted at the maximum position.)
4. These adjustments are always necessary when power amplifier is repaired. (module of MD-90-1250*a)
5. Before adjustment is done, the tested unit must be pre-heated at least 3 to 5 minutes.

A. BIAS CURRENT ADJUSTMENT

1. Connect voltmeter between R525 resistor. (See figure - point A and B)
2. Adjust VR501 to give a reading of DC ~~70~~ mV. *55*
3. Connect voltmeter between R526 resistor. (See figure - point C and D)
4. Adjust VR502 to give a reading of DC ~~70~~ mV. *55*
5. Connect the output of the amplifier to an oscilloscope/analyser (with 20Hz H.P. Filter) and adjust the VR501 or VR502 for minimum mains ripple at the output.
6. Repeat above for another channel.

Amcli International Corp.

Division of the I. E. E. Group

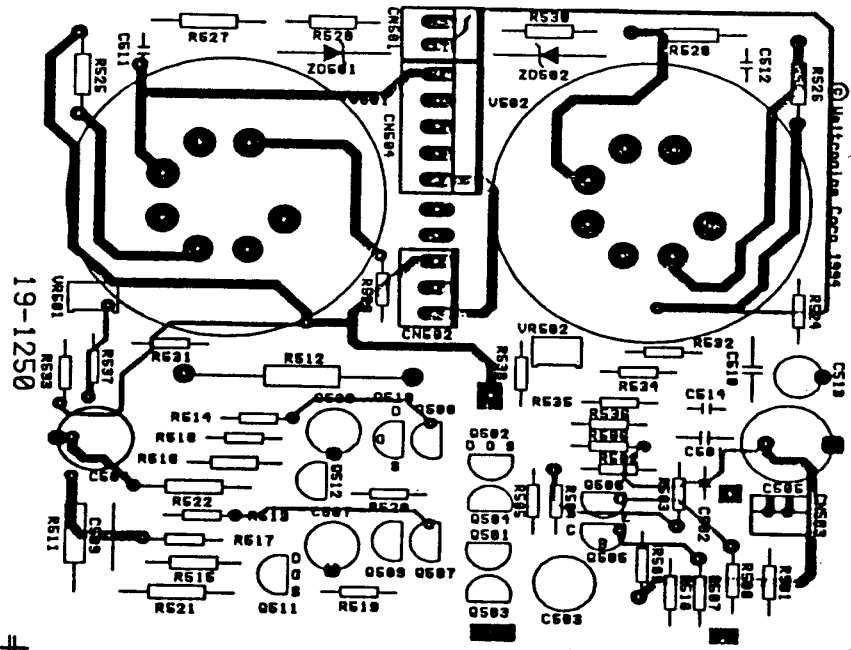
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CVT2100 SERVICE PARTS LIST

PARTS NO.	DESCRIPTION	SPRCIFICATION	REF
MD90-2149	POWER SUPPLY MODULE		
MD90-2150	POWER AMP MODULE		
	PACKING ASS'Y	CVT2100 AMC	
34-1065-1	POLYLONE, FRONT	CVT3030	
34-1065-2	POLYLONE, REAR	CVT3030	
CT-5248	INNER CARTON	CVT2100	CVT2100
CT-5249	OUTER CARTON	CVT2100	CVT2100
	CHASSIS ASS'Y	CVT2100 AMC	
50-1038-1	TOP COVER	BLACK CVT3030	
11-6167	MAIN CHASSIS		CVT2100
11-8469	FRONT PANEL	BLACK	CVT2100
28-10468-1	FOOT A		
28-10468-2	FOOT B		
11-6149*A	FRONT CHASSIS	CVT3030	
11-8470-1	REAR PANEL (120V)	CVT2100	CVT2100
11-8470-2	REAR PANEL (230V)	CVT2100	CVT2100
12-2134*A	BINDING POST, BLK		
12-2133*A	BINDING POST, RED		
29-2148	POWER TRANSFORMER	TAMURA CVT-PT-01	CVT2100
29-2149-1	OUTPUT TRANSFORMER	TAMURA CVT-OPT-01	CVT2100
29-2149-2	OUTPUT TRANSFORMER	TAMURA CVT-OPT-01	CVT2100
29-6115	DC FAN (AD0912LS-A70)	12V 90x90x2.5 MM	CVT2100
90-2149	POWER SUPPLY PCB ASS'Y	CVT2100 AMC	
30-1N5408	DIODE	1N5408 8A/Vrrm=1000V	CVT2100
30-1N4001	DIODE	1N4001 1A/Vrrm=50V	
30-1121	DIODE, BRIDGE	KBPO2 2A/Vrrm=200V	CVT2100
17-40E687M	CAP., EL.	680uF 400V +/-20%	CVT2100
32S1250250TU	FUSE, 5x20mm, BIAS, T-LAG	UL/CSA T250mA/250V, A/A1	
32S1250250TS	FUSE, 5x20mm, BIAS, T-LAG	SEMKO T250mA/250V, B1/EC	
32S12502K0TU	FUSE, 5x20mm, B+, T-LAG	UL/CSA T2A/250V, A/A1	
32S12502K0TS	FUSE, 5x20mm, B+, T-LAG	SEMKO T2A/250V, B1/EC	
32S11256K3TU	FUSE, 5x20mm, FLMT, T-LAG	UL/CSA T6.3A/125V, A/A1	
32S12506K3TS	FUSE, 5x20mm, FLMT, T-LAG	SEMKO T6.3A/250V, B1/EC	
32S11256K3TU	FUSE, 5x20mm, PRIMARY, T-LAG	UL/CSA T10A/125V, A/A1	
32S12503K15TS	FUSE, 5x20mm, PRIMARY, T-LAG	SEMKO T3.15A/250V, B1/EC	
31-1240	POWER SW	TV8 FD, SDDFA3117U-EK	
90-2150	POWER AMP. PCB ASS'Y	CVT2100 AMC	
29-4195-W503	1/4" SQUARE VR	50K 3362W	
30-5002	VACUUM TUBE	KT88	
30-VN0535N3	TRANSISTOR	NMOS, T092 VN0535.SUPERTEX	
30-VP0535N3	TRANSISTOR	PMOS, T092 VP0535.SUPERTEX	
30-PN2222	TRANSISTOR	NPN, T092 PN2222, MOTOROLA	
30-MPSA42	TRANSISTOR	NPN, T092 MPSA42, MOTOROLA	
16-3F271J	RES, METAL OXIDE	270 +/-5%, 3W	

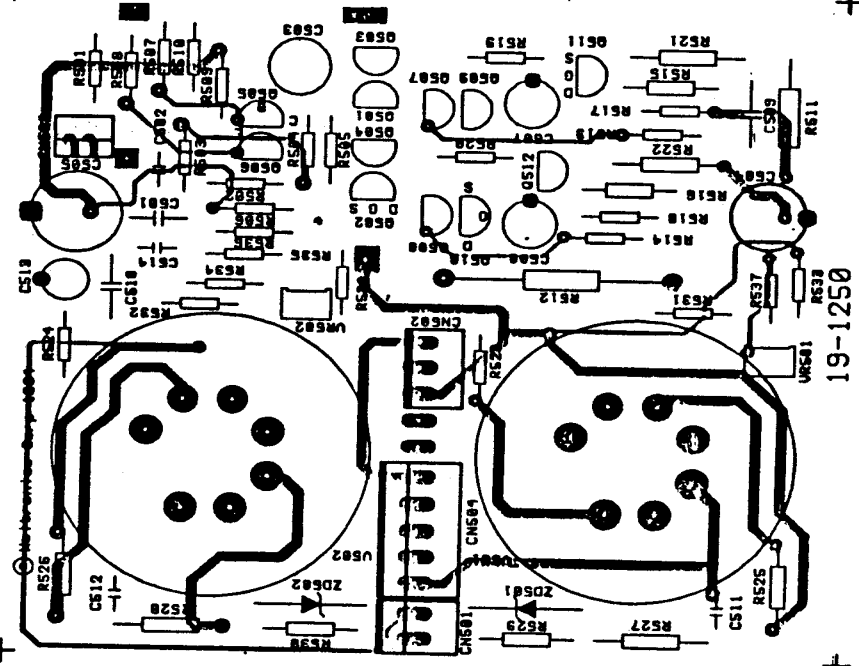
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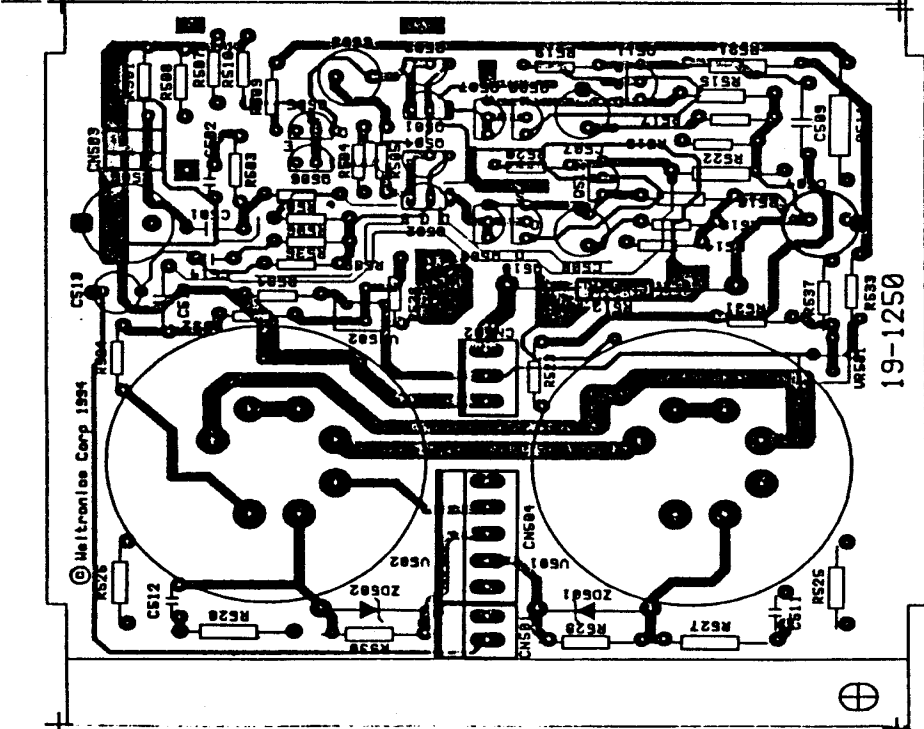
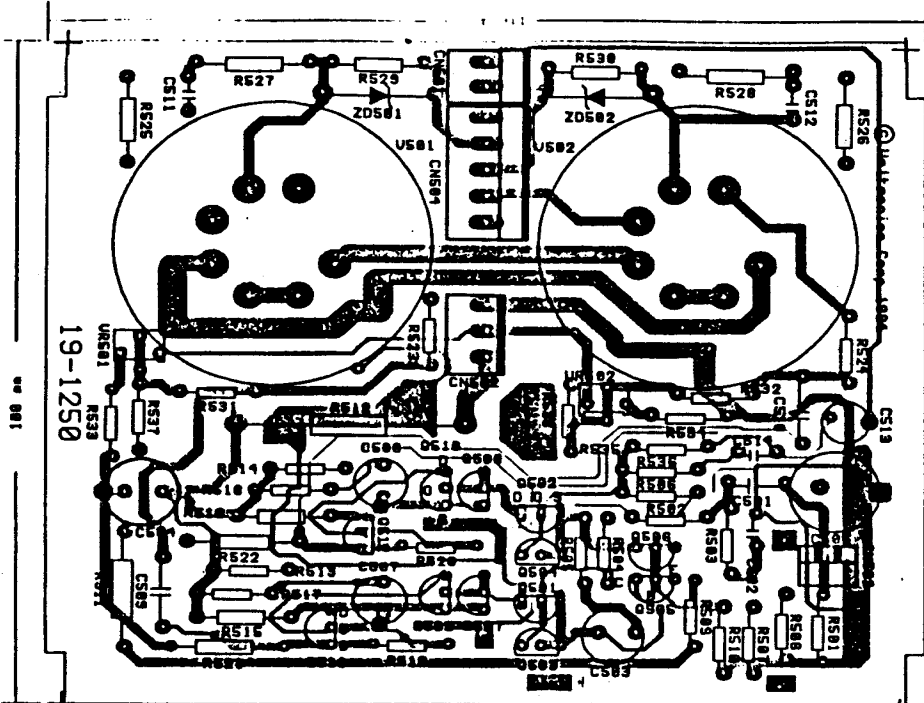
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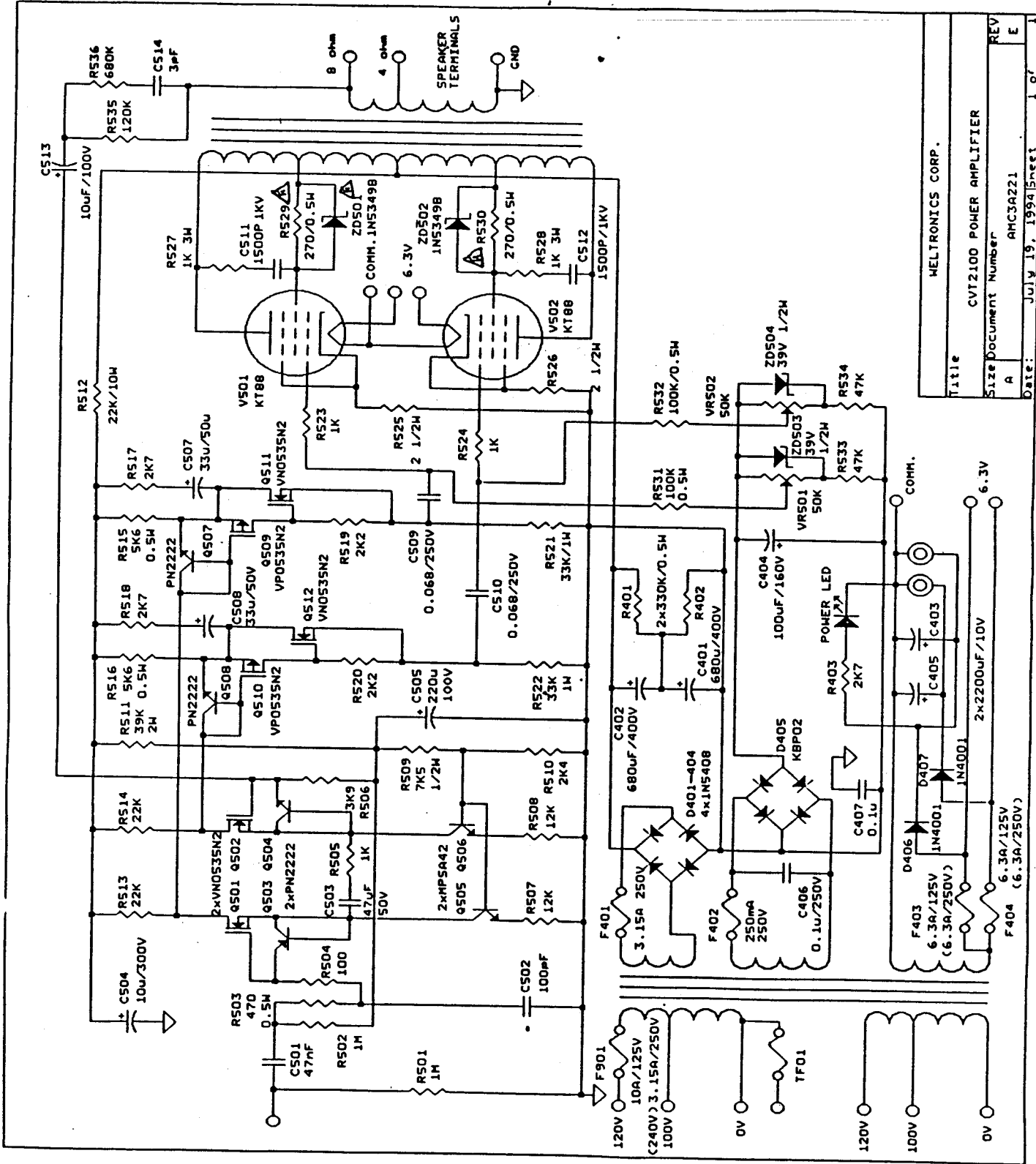
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