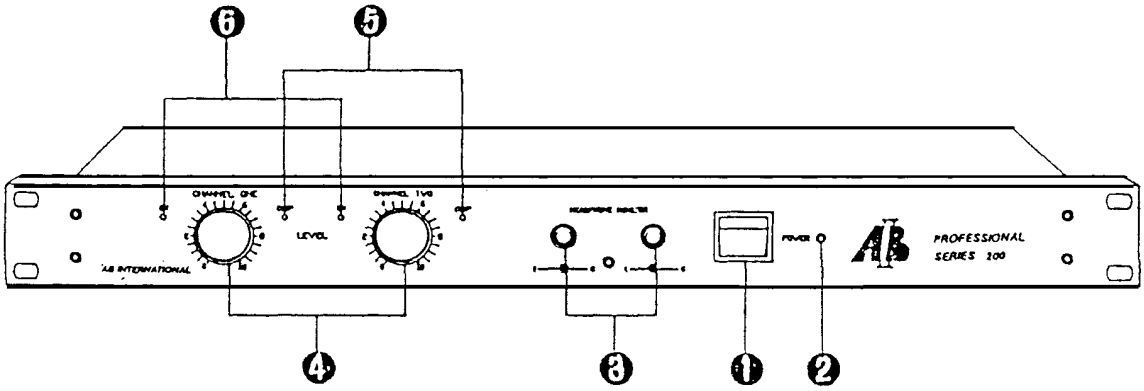
1. SPECIFICATIONS

Type:	Two channel audio power amplifier
Gain:	26 dB (each channel)
Continuous Average Power Output	75 watts per channel at 8 ohms 100 watts per channel at 4 ohms 180 watts at Bridged mono at 8 ohms.
Frequency Response:	Plus/Minus 0.5dB 20Hz-20kHz
Distortion:	No more than 0.25% THD or IM, 0.01W to rated power, 20Hz to 20kHz (typically 0.02%)
Hum and Noise:	101dB below rated output (unweighted 20KHz bandwidth)
Input Sensitivity:	1.6V RMS for rated output
Input Impedance:	15K ohms, nominal
Input Connector:	(2) ¼-inch phone jacks and XLR jacks. (unbalanced and balanced)
Output Connectors:	Dual 5-way binding posts
Controls & Indicators:	(Front Panel) AC main power switch, Power-on LED indicator, Signal on LED indicator Clip LED indicator ×2pcs Channel One and Two level controls Monitor jacks 2 pcs
Power:	110-120VAC/60Hz 220-240VAC/50Hz } switchable 30W (idle), 300W (maximum)
Dimensions:	1-3/4"H (4.4cm) 19"W (48.3cm) 11.9" (30.2cm) behind panel 13" (32.5cm) overall
Weight:	16.2 lbs (7.3 kg)

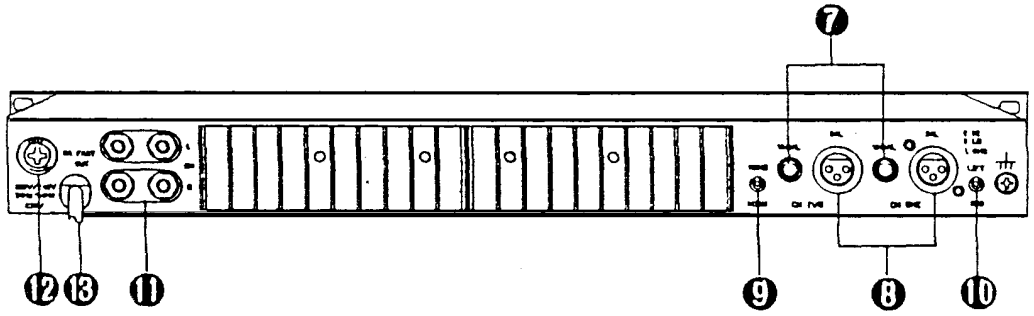
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2. OPERATING THE AB 200

-FRONT PANEL-



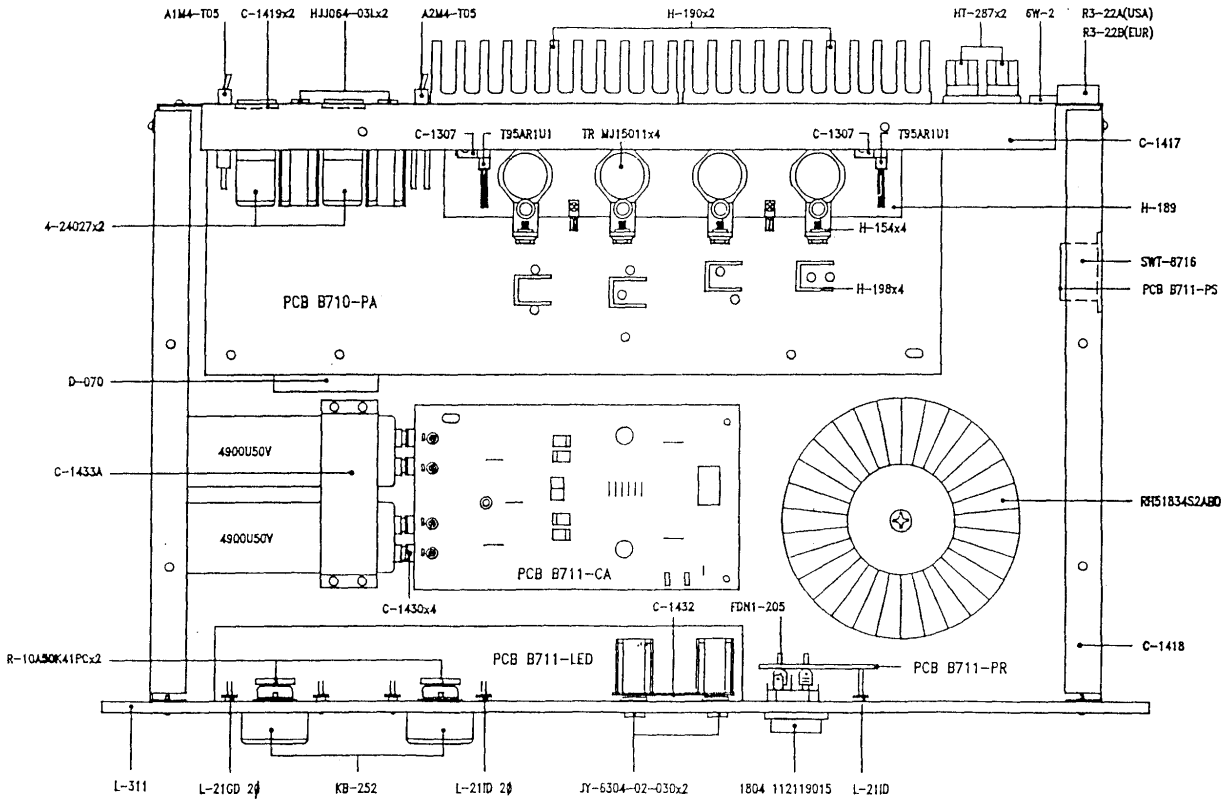
-REAR PANEL-



FRONT: 1. POWER SWITCH
2. POWER INDICATING LED
3. HEADPHONE MONITOR JACKS
4. LEVEL CONTROLS
5. CLIP INDICATORS
6. ON INDICATORS

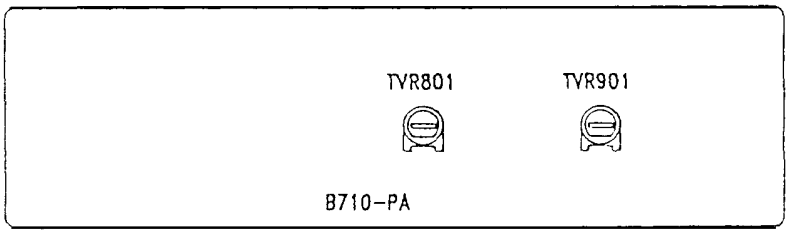
REAR: 7. UNBALANCED INPUT CONNECTIONS
8. BALANCED INPUT CONNECTIONS
9. NORM/MONO SELECTOR SWITCH
10. GROUND/LIFT SWITCH
11. OUTPUT CONNECTIONS

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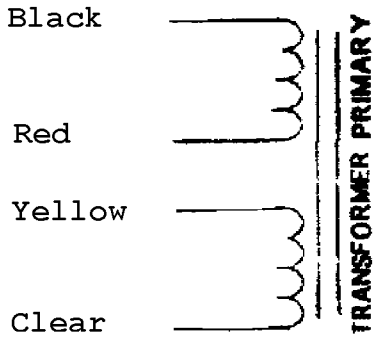
4. ADJUSTMENT AND TEST POINT LOCATIONS



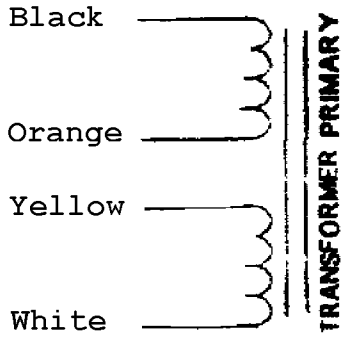
INITIAL SETTINGS:
LEVEL CONTROL: MINIMUM

ITEM	MEASURING POINT	ADJ.POINT	MEASURE
IDEL CURRENT ADJ.	R827,828	TVR801	6-10mV
IDEL CURRENT ADJ.	R927,928	TVR901	6-10mV
CENTER VOLT.CHECK	CH 1 OUTPUT TO GND	-	<30mV
CENTER VOLT.CHECK	CH 2 OUTPUT TO GND	-	<30mV

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Original Xfmr Color Code



Replacement Xfrm Color Code PN 750-518B

Like colors exchange for like colors for example:

Black on the new xfmr takes the place of Black on the old xfmr.

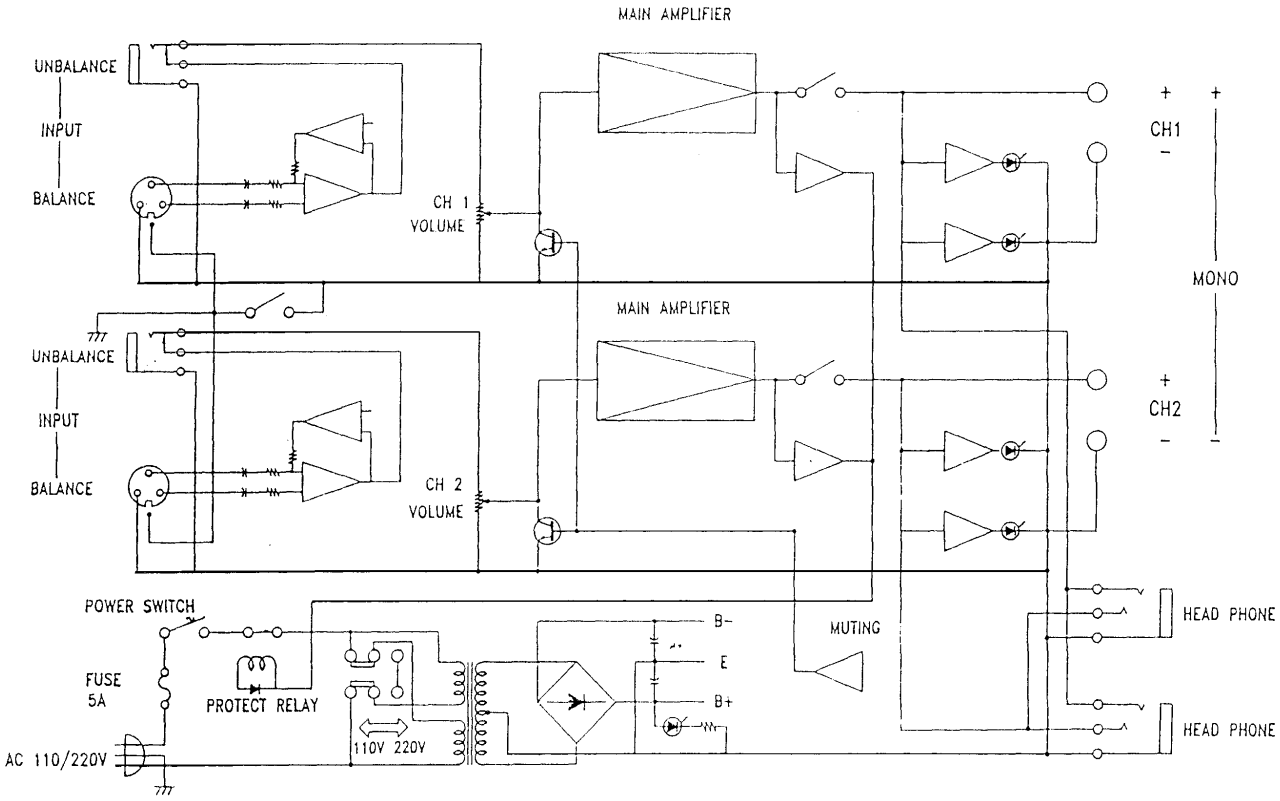
Yellow is the same.

Orange on the new xfmr takes the place of the red on the old xfmr.

White on the new xfmr takes the place of the clear on the old xfmr.

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5. BLOCK DIAGRAM



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8. PARTS LIST

AB-200

REF.NO.	DESCRIPTION	Q'TY	REMARK
1.	FRONT PANEL L-311	1	
2.	MAIN CHASSIS C-1418	1	
3.	REAR PANEL C-1417	1	
4.	UPPER COVER C-1415	1	
5.	PHONE HOLDER C-1432	1	
6.	CAPACITOR HOLDER C-1433A	1	
7.	HEAT SINK H-190	2	
8.	SPEAKER TERMINAL HT-2874	2	
9.	AC CORD 3P VDE (EUR)	1	
	AC CORD 3P SVT (USA)	1	
10.	BUSHING 6W-2	1	
11.	FUSE 5φx20x2.5A (EUR)	1	
	FUSE 6.3φx31.7x5A (USA)	1	
12.	FUSE HOLDER R3-22B (EUR)	1	
	FUSE HOLDER R3-22A (USA)	1	
13.	CONNECTOR E-D331 (BLACK)	1	
14.	CONNECTOR E-D337 (RED , WHITE)	1	
15.	POWER SW 1804 112119015	1	
16.	WIRE CONNECTOR S-1	2	
17.	TOROID TRANSFORMER RH51834S2ABD	1	
18.	LED 2φ L-211D RED	3	
19.	LED 2φ L-21GD GREEN	2	
20.	CABLE TIE 90MM	13	
21.	FOOT CUSHION 18φ x 10MM	4	
22.	KNOB KB-252 23.8φ	2	
23.	RUBBER WASHER D-070	3	
24.	STYROFORM PF-107	1	
25.	STYROFORM PF-104	1	
26.	OWNER'S MANUAL	1	
27.	INSIDE CARTON	1	
28.	OUTSIDE CARTON	1	
29.	SCREW CRTS 3x6 (Y)	2	FOR E/C
30.	SCREW CRTS 3x6 (B)	3	FOR PCB.
31.	SCREW CRMS 3x6 (B)	4	SW , XLR
32.	SCREW CRMS 3x6 (W)	1	
33.	SCREW CRMS 4x12 (B)	4	HEAT SINK
34.	SCREW CRWMS 4x8 (B)	4	FOOT CUSTION
35.	SCREW CRWMS 4x8 (W)	1	GROUND
36.	FLAT & HEXAGON SCREW SCREW MS 4x10 (B)	5	FRONT PANEL
37.	NUT WITH GEAR 3φ (Y)	3	SW . GROUND
38.	GEAR WASHER 3φ (W)	2	GROUND
39.	GEAR WAHER 4φ	1	GROUND

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P.C. BOARD B710-PA

REF.NO.	DESCRIPTION	Q'TY	REMARKS
	TEMPERATURE SW T95AR1U1	2	
	TEMPERATURE SW HOLDER C-1307	2	
	TAGGER SW A1M4-T05	1	
	TAGGER SW A2M4-T05	1	
	PHONE JACK HTJ064-03L1	2	
	XLR PLUG 4-24027	2	
	XLR HOLDER C-1419	1	
	PLASTIC SCREW 1/8x9 (B)	4	XLR
	CABLE TIE 1φ 100MM	1	
	CABLE TIE 5.8φ 36MM	1	
	HEAT SINK H-198	4	
	HEAT SINK HOLDER (SMALL) H-154	4	
	L TYPE HEAT SINK H-189	1	
	SCREW CRTS 3x6 (Y)	4	
	SCREW CRTS 3x6 (Y)	2	
	SCREW CRTS 3x8 (Y)	2	
	SCREW CRMS 3x8 (Y)	4	
	SCREW CRMS 3x14 (W)	8	
	COIL 15Tx10φx1φ	2	
	WAFER 5045-3	4	
	WAFER 5273-2	1	
	WAFER 5273-3	1	
	PIN 1.2x1.2x19	4	
	SPRING WASHER 3φ (Y)	12	
	NUT WITH GEAR 3φ (Y)	8	

-CARBON RESISTORS T TYPE-
ALL RESISTORS ARE RATED ±5% TOLERANCE AND 1/4W

R817,R917	200 ohm
R816,R916	560 ohm
R819,R919	820 ohm
R810,R910	2K2 ohm
R934	4K7 ohm

-CARBON RESISTORS T TYPE-
ALL RESISTORS ARE RATED ±5% TOLERANCE AND 1/3W

R921,R924,R821,R824,R835,R935	100 ohm
R808,R908	150 ohm
R812,R912	750 ohm
R822,R823,R922,R923	1K ohm
R832,R932	3K9 ohm
R806,R807,R834,R906,R907	10K ohm
R809,R909,R818,R918	15K ohm
R801,R901	22K ohm
R802,R803,R902,R903	100K ohm
R804,R805,R904,R905	220K ohm

-CARBON RESISTORS T TYPE-
ALL RESISTORS ARE RATED ±5% TOLERANCE AND 1/2W

R815,R820,R825,R826	47 ohm
R920,R915,R925,R926	47 ohm
R813,R913	220 ohm
R831,R931	4K7 ohm

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-CARBON RESISTORS T TYPE-
ALL RESISTORS ARE RATED ±5% TOLERANCE AND 2W

R830,R930	10 ohm	

-METAL RESISTORS T TYPE-
ALL RESISTORS ARE RATED ±2% TOLERANCE

R811,R814,R911,R914	18K ohm	1W
R833,R933	10 ohm	2W

-WIRE WOUND RESISTORS-

R827,R828,R829,R927,R928,R929	0.27 ohm	3W

-CAPACTIORS-

C803,C804,C903,C904	7P/500V	CERAMIC	
C818,C918	10P/500V	CERAMIC	
C805,C905	15P/500V	CERAMIC	
C817,C907	500P/500V	CERAMIC	
C808,C908	50P/500V	CERAMIC	
C813,C814,C913,C914	220P/500V	CERAMIC	
C810,C811,C812,C817	0.047K	MYLAR	
C910,C911,C912,C917	0.047K	MYLAR	
C801,C802,C901,C902	0.47u/50V	ELEC.	NP
C806,C809,C815	33u/25V	ELEC.	NP
C906,C909,C915	33u/25V	ELEC.	NP
C819,C919	100u/25V	ELEC.	

-TRASISTOR-

Q801-Q803,Q901-Q903,Q807,Q907	2SC2240 GR
Q808,Q908	2SA970 GR
Q806,Q906	2SD1563
Q805,Q905	2SB1086
Q804,Q904	2SC3421/2SC3423
Q809,Q909	2SC2167
Q810,Q910	2SA957
Q811,Q812,Q811,Q912	MJ15011

-TRIAC-

T801,T901	MC97A6

-IC-

IC801,IC901	JRC072D

-DIODE-

D809,D909,D810,D910	IN4004	RECTIFIER

-TVR-

TVR801,TVR901	300 ohm , 3 PIN 8φH

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P.C. BOARD B711-CA, PR, LED, PS

REF.NO.	DESCRIPTION	Q'TY	REMARKS
	VR R-10A50K41PC	2	
	PHONE JACK JY-6304-02-030	2	
	AC SELECTOR SW T-8716	1	
	PRESS TERMINAL FDN1-205	4	
	LED 2φ L-212D	1	
	CONNECT HOLDER C-1430	4	
	GEAR WASHER 5.3x10.2x0.5	2	WITH E/C
	SCREW CRMS 4.5x10 (Y)	2	WITH E/C
	PLASTIC WIRE #22 1015 BROWN 140MM	1	
	PLASTIC WIRE #22 1015 WHITE 140MM	1	
	PIN 1x1x19	2	
	REPAY MEI DC24V	1	

-CARBON RESISTORS T TYPE-
ALL RESISTORS ARE RATED ±5% TOLERANCE AND 1/4W

R302,R402	200 ohm	
R005,R305,R307,R405,R407	3K9 ohm	
R301,R401	6K8 ohm	
R004,R008,R009	22K ohm	
R304,R404	33K ohm	
R308,R408,R311,R411	56K ohm	
R303,R403	100K ohm	
R309,R312,R409,R412	150K ohm	
R006	220K ohm	
R306,R406	1M ohm	

-CARBON RESISTORS T TYPE-
ALL RESISTORS ARE RATED ±5% TOLERANCE

R010	1K ohm	1/2W
R310,R313,R410,R413	5K6 ohm	1/2W

-METAL RESISTORS T TYPE-
ALL RESISTORS ARE RATED ±2% TOLERANCE AND 1W

R314,R414	100 ohm
R001,R002	1K8 ohm
R003	3K9 ohm

-CAPACTIORS-

C007,C008	0.005/500V	CERAMIC	
C304,C404	0.1K/50V K	MYLAR	
C301,C401	6.8u/50V	ELEC.	NP
C005	47u/50V	ELEC.	
C003,C004	470u/16V	ELEC.	
C006	470u/50V	ELEC.	

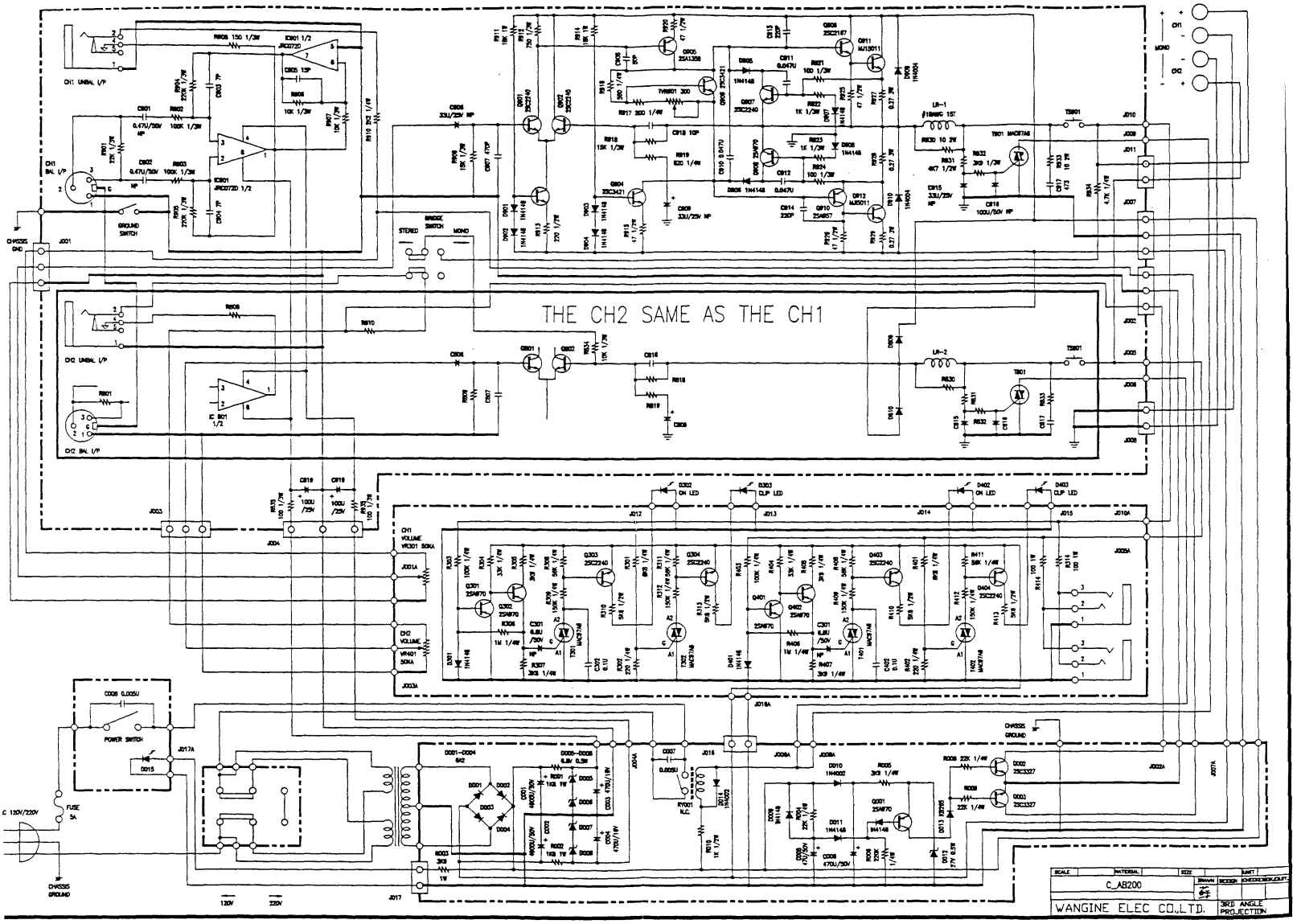
-TRASISTOR-

Q001,Q301,Q302,Q401,Q402	2SA970	
Q303,Q304,Q403,Q404	2SC2240	
T301,Q302,Q401,Q402	MA97A6	TRIAC
Q002,Q003	2SC3327	

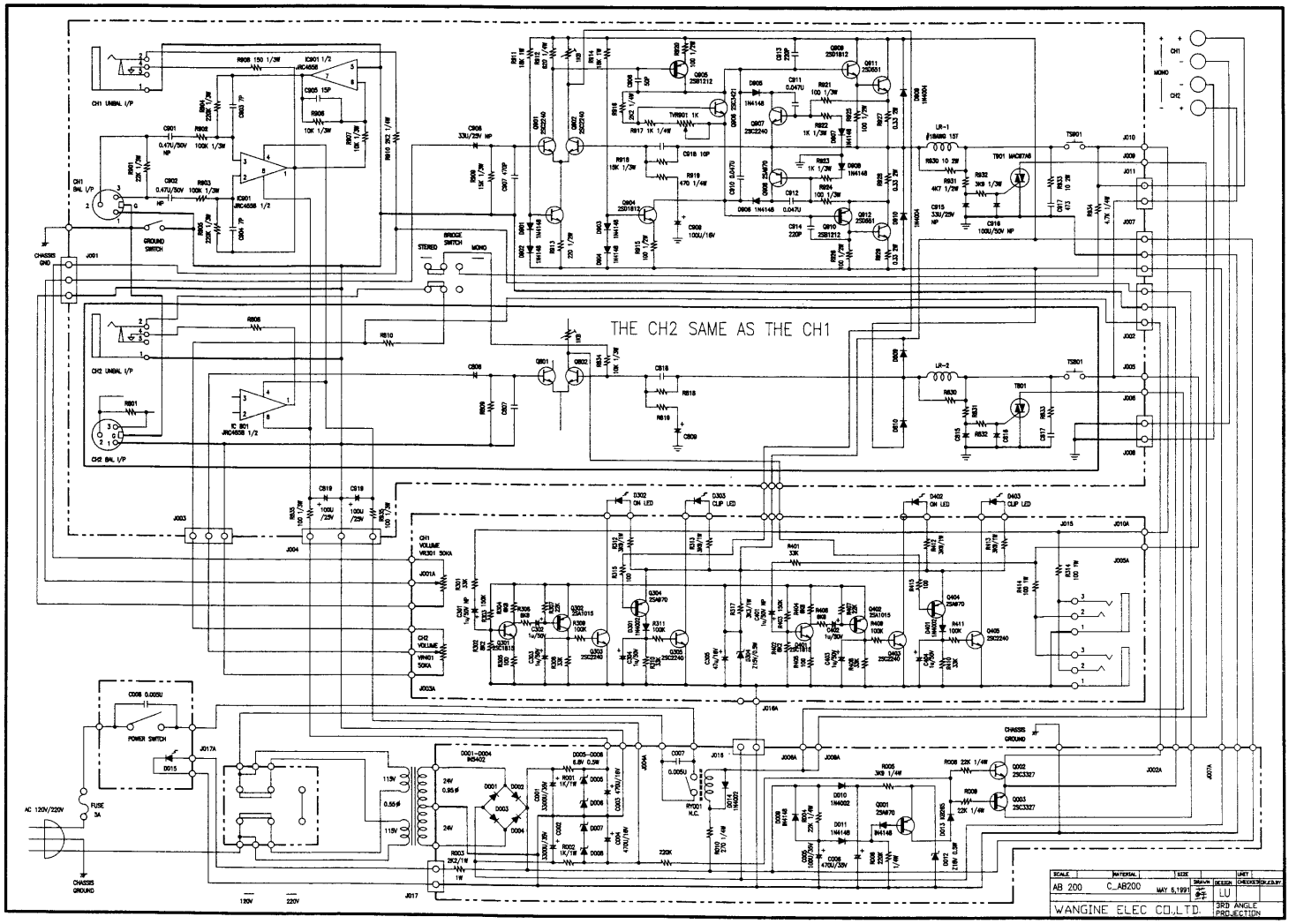
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	-DIODE-	
D011,D009,D301,D401	IN4148	
D005,D008	6.8V/0.5W	ZENER
D012	26V/0.5W	ZENER
D013	KB-265	
D010,D014	IN4002	RECTIFIER
	-CONNECT-	
J007,J012,J013,J014,J015	E-D311	
J010A	E-D335	
J005A	E-D336	
J016A	E-D225	
J001A,J003A	E-D333	
J009A,J006A	E-D332	
J004A	E-D338	

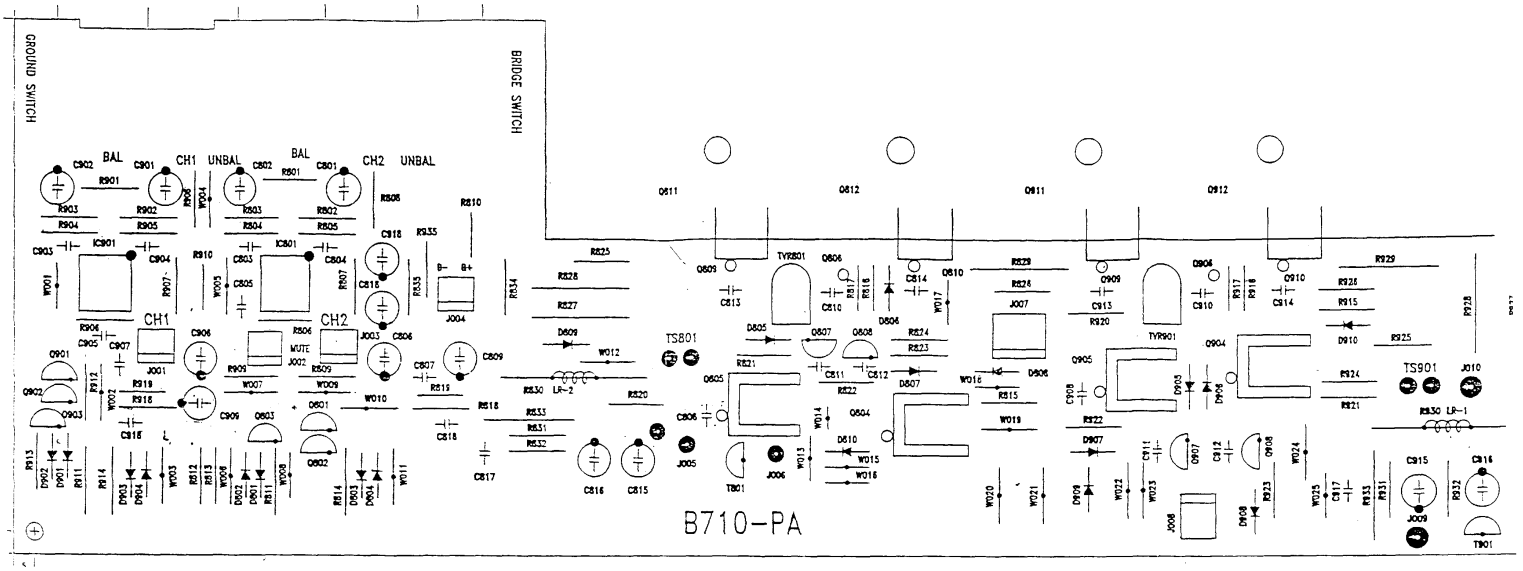
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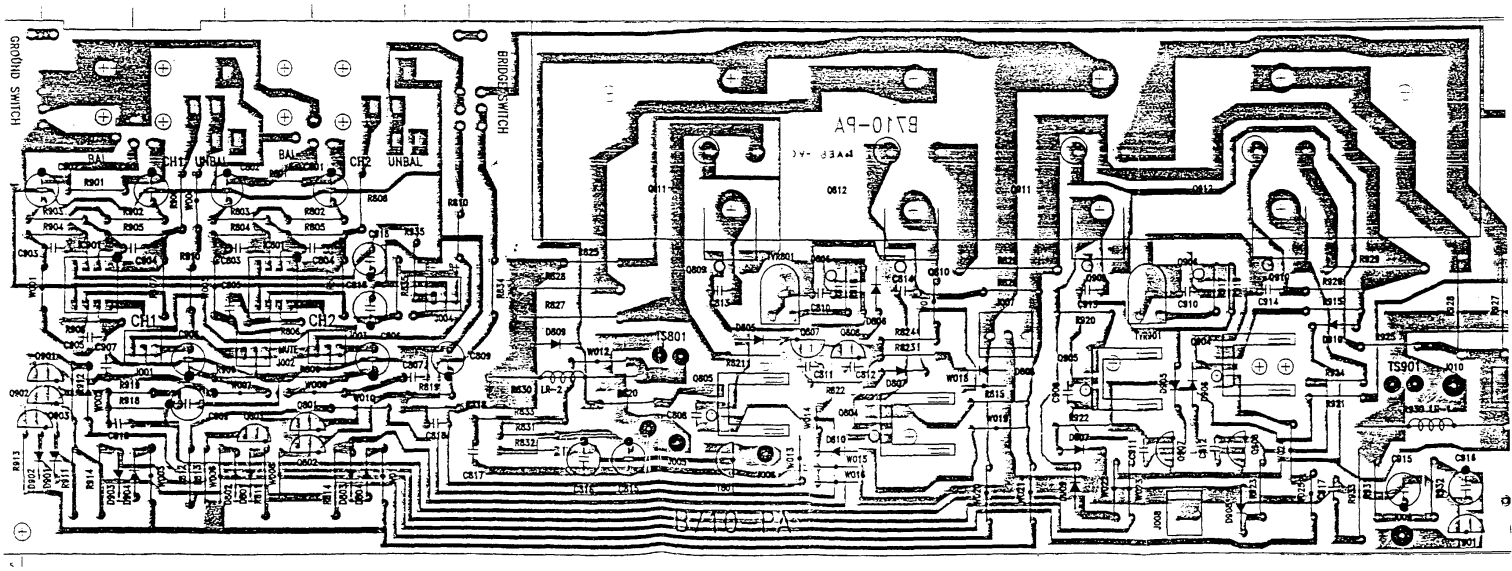


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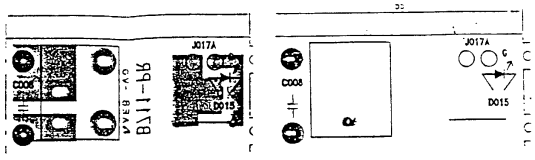
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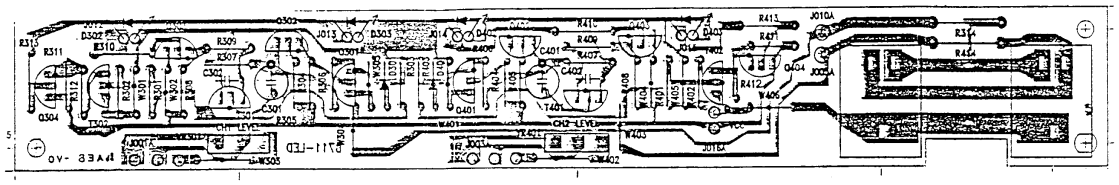


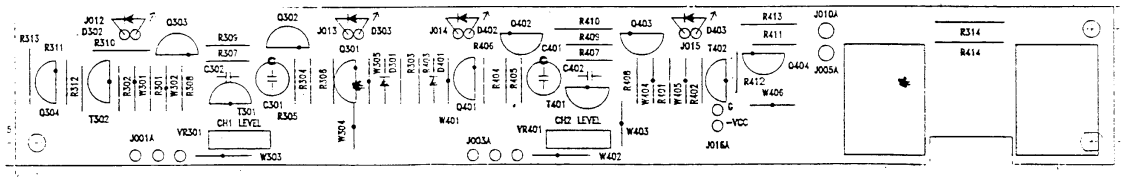


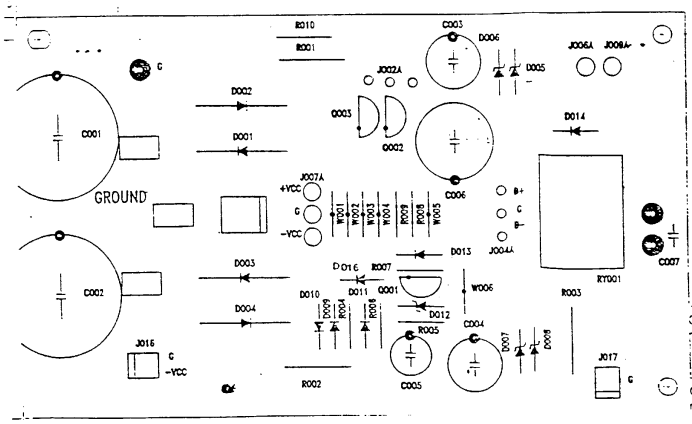
PCB B710-PA

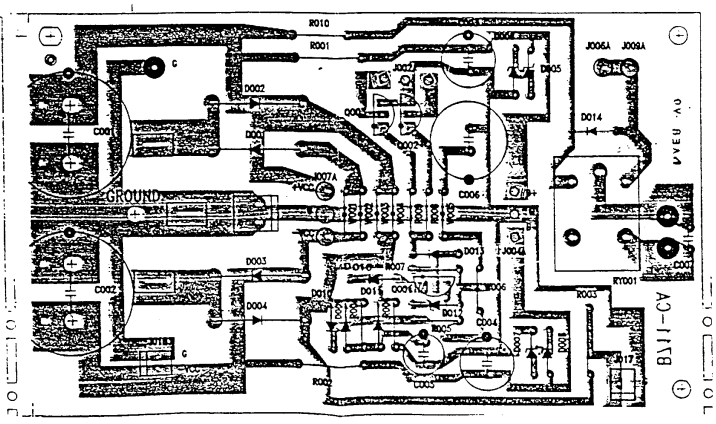
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