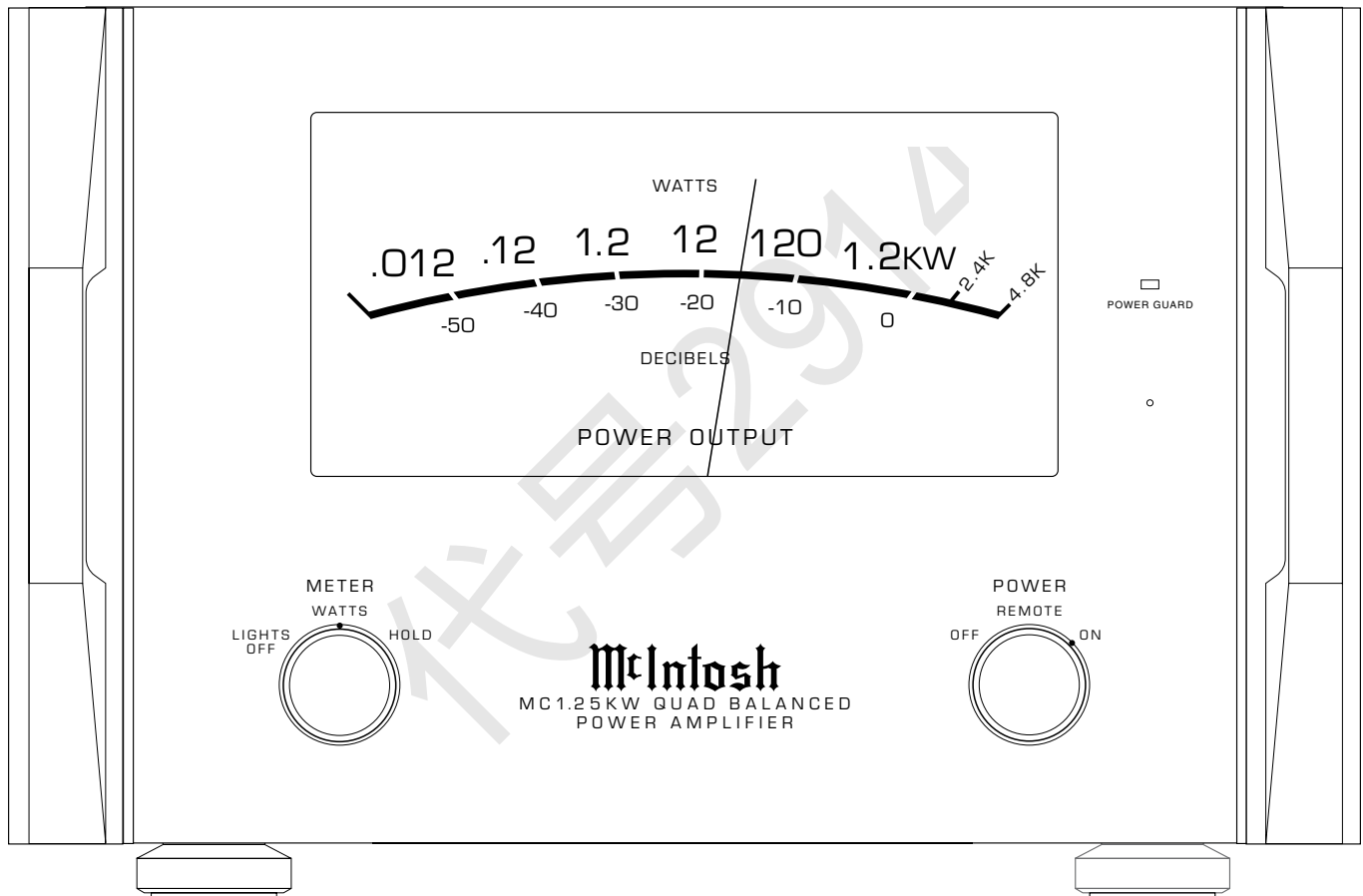




# MC1.25KW QUAD BALANCED POWER AMPLIFIER

SERIAL NO. AFW1001 And Above



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# SERVICE MANUAL

# PERFORMANCE SPECIFICATIONS

## Power Amplifier Specifications

### Power Output

Minimum sine wave continuous average power output is:  
1,200 watts into 2 ohm load  
1,200 watts into 4 ohm load  
1,200 watts into 8 ohm load

### Output Load Impedance

2, 4 or 8 ohms

### Rated Power Band

20Hz to 20,000Hz

### Total Harmonic Distortion

0.005% maximum harmonic distortion at any power level from 250 milliwatts to rated power, 20Hz to 20,000Hz

### Dynamic Headroom

2.2dB

### Frequency Response

+0, -0.25dB from 20Hz to 20,000Hz  
+0, -3dB from 10Hz to 100,000Hz

### Input Sensitivity (for rated output)

4.8 Volt Balanced  
2.4 Volt Unbalanced

### Signal To Noise Ratio (A-Weighted)

124dB below rated output, Balanced  
120dB below rated output, Unbalanced

### Intermodulation Distortion

0.005% maximum, if the instantaneous peak power output does not exceed twice the rated power output for any combination of frequencies from 20Hz to 20,000Hz

### Wide Band Damping Factor

Greater than 40

### Input Impedance

22,000 ohms

### Power Guard

Less than 2% THD with up to 14dB overdrive at 1,000Hz

### Power Control Input

5-15VDC, less than 1mA

### Power Control Output

12VDC, 50mA maximum total  
Output is delayed 0.2 seconds from turn On

## General Specifications

### Power Requirements

100 Volts, 50/60Hz at 15 Amps  
110 Volts, 50/60Hz at 12.5 Amps  
120 Volts, 50/60Hz at 12 Amps  
220 Volts, 50/60Hz at 7.5 Amps  
230 Volts, 50/60Hz at 6.5 Amps  
240 Volts, 50/60Hz at 6.5 Amps  
Standby: 0.5 watts

*Note: Refer to the rear panel of the MCI.25KW for the correct voltage.*

### Overall Dimensions

Width is 17-3/4 inches (45.09cm)  
Height is 12-5/16 inches (31.27cm) including feet  
Depth is 22 inches (55.88cm) including the Front Panel and Cables


### Weight

158 pounds (71.7 kg) net, 184 pounds (83.4 kg) in shipping carton

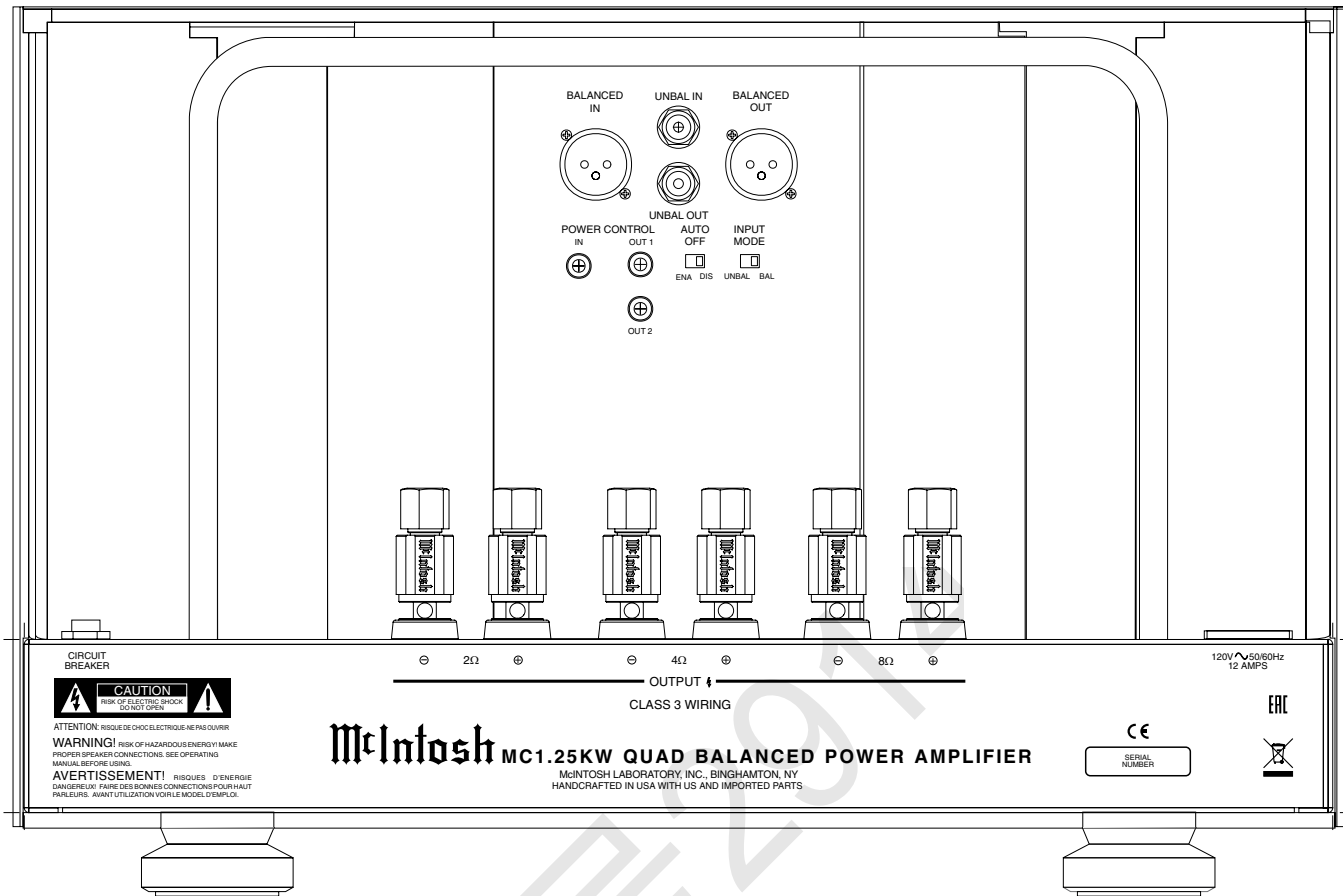
### Shipping Carton Dimensions

Width is 31 inches (78.74cm)  
Depth is 28 inches (71.12cm)  
Height is 17-1/4 inches (43.82cm)

## NOTES

1. Unless otherwise noted, all voltages indicated on the schematics are measured under the following conditions:
  - a. AC input at rated voltage marked on rear panel.
  - b. All voltages are +/-10% with respect to ground. A high impedance (10 megaohm) voltmeter must be used.
2. Unless otherwise specified:
  - a. Resistor values are in ohms.
  - b. Capacitor values are microfarads (uF).
  - c. Inductor values are in microhenries (uH)
3. On PC board drawings, Square pad indicates:
  - a. Polarized Capacitors - Positive
  - b. Diodes - Cathode
  - c. Others - Pin 1
4. **WARNING**  
Parts marked with the symbol  have critical characteristics. Use only replacement parts recommended by the manufacturer.

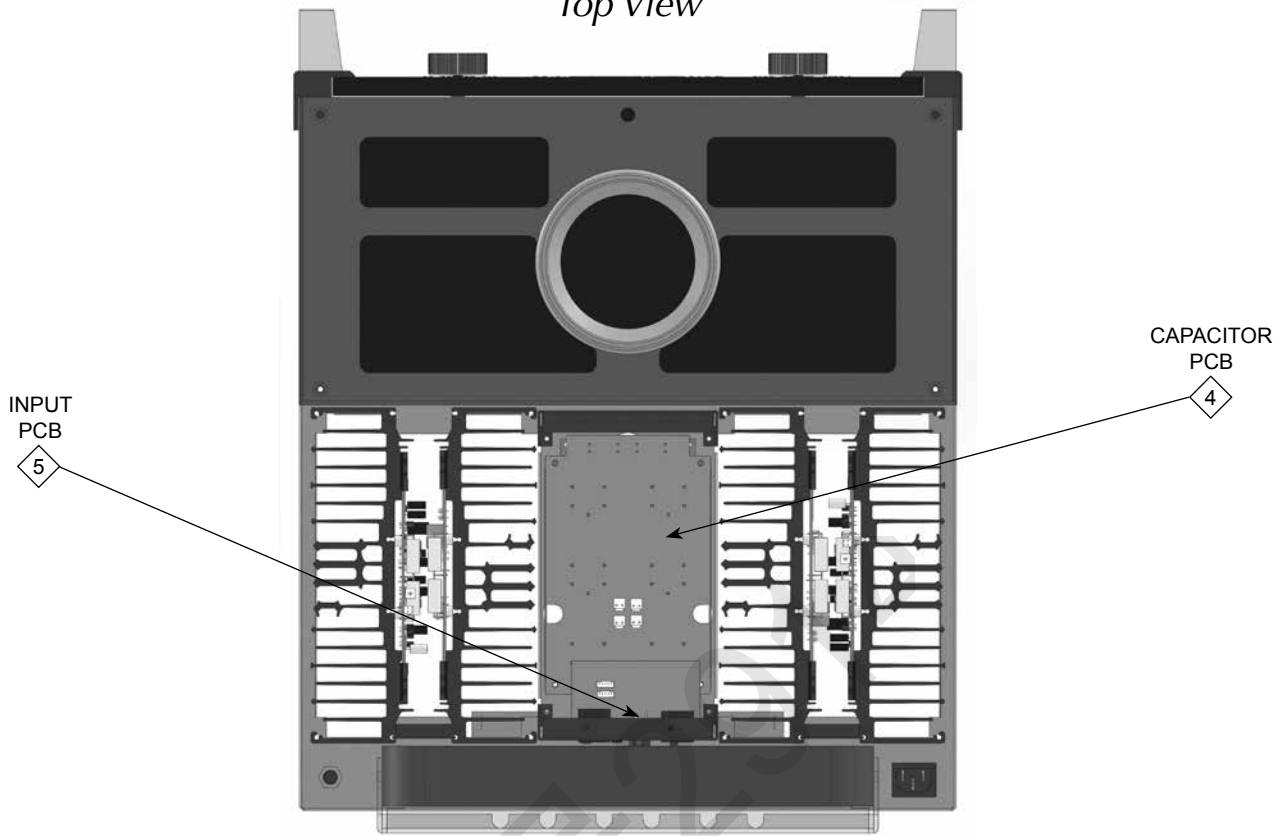
# REAR PANEL



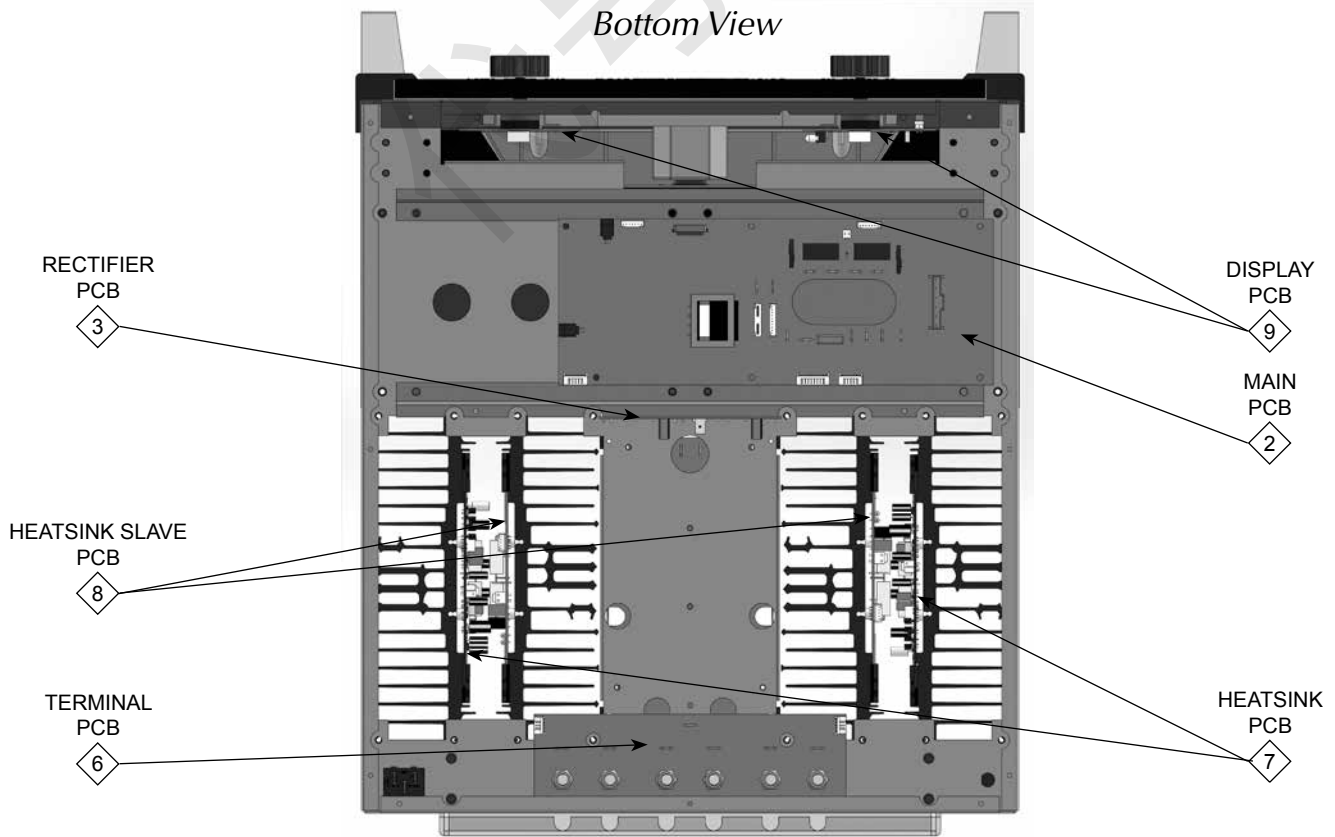
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# SECTION LOCATION

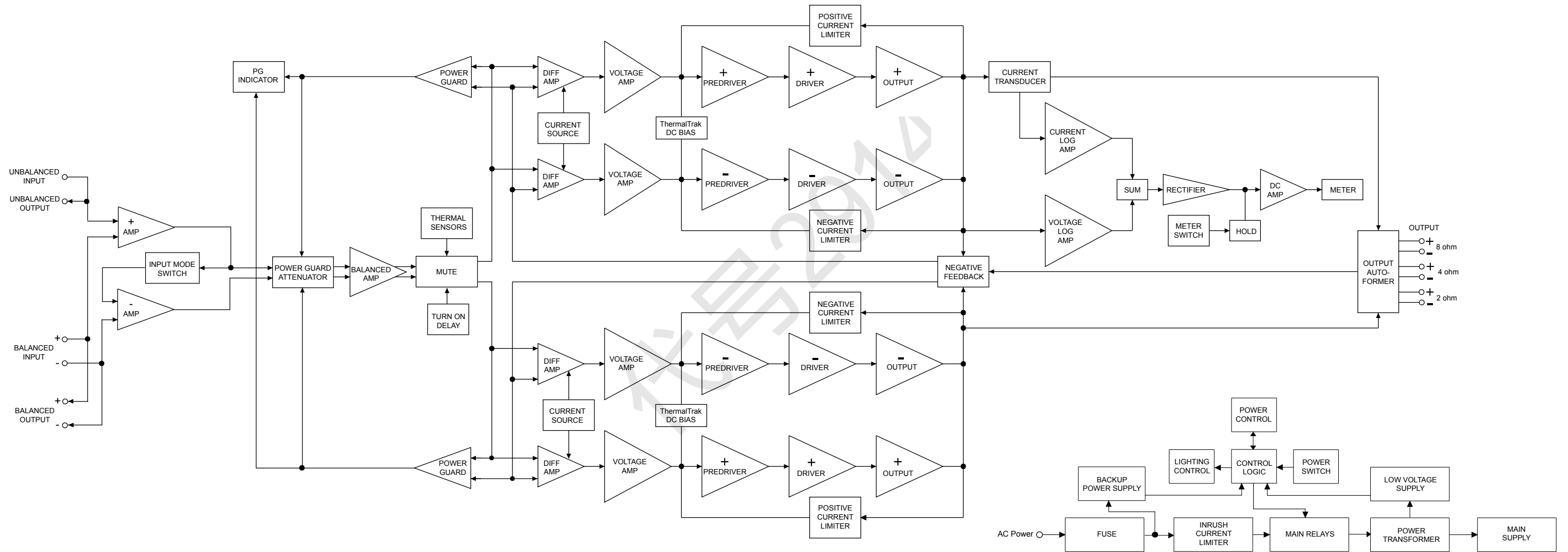
Top View



Bottom View



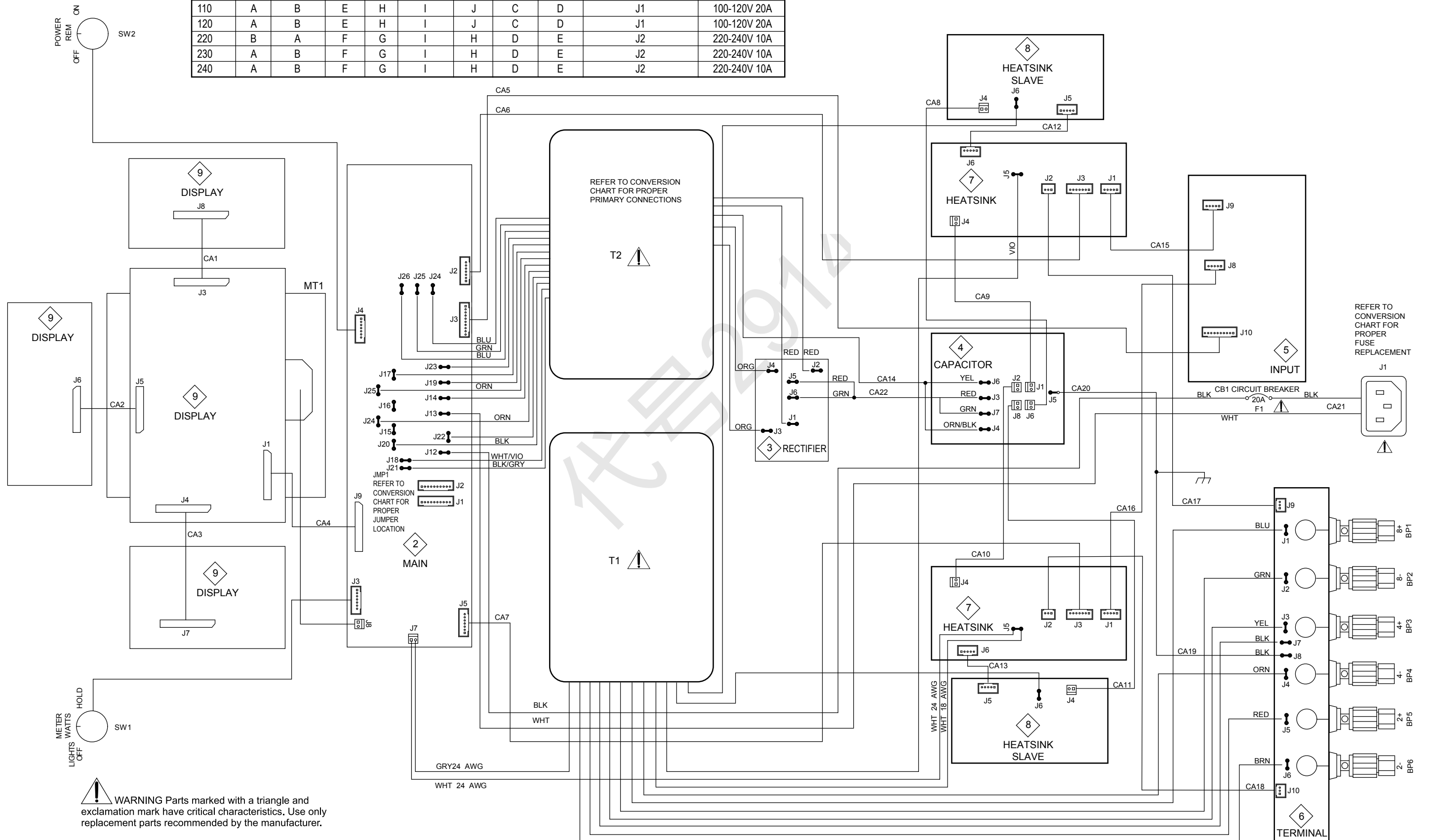
# BLOCK DIAGRAM



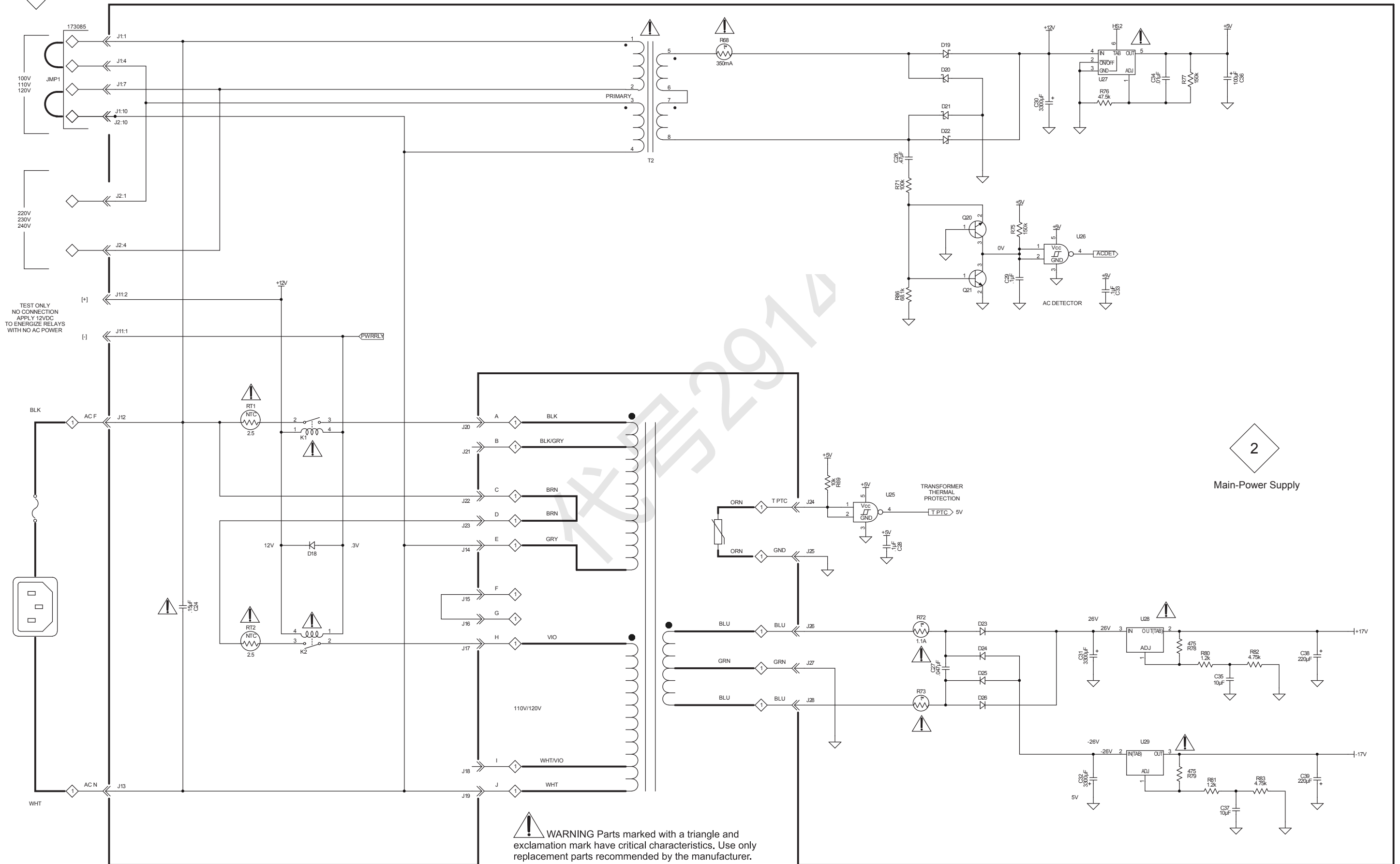
# 1 INTERCONNECT

MC1.25KW TRANSFORMER WIRING AND FUSE REPLACEMENT (CONTACT MCINTOSH FOR CURRECT TRANSFORMER P/N)

Voltage	BLK	BLK/GRY	GRY	VIO	WHT/VIO	WHT	BRN 1	BRN 2	Jumper Location (JMP1)	Circuit Breaker CB1
100	B	A	E	H	J	I	C	D	J1	100-120V 20A
110	A	B	E	H	I	J	C	D	J1	100-120V 20A
120	A	B	E	H	I	J	C	D	J1	100-120V 20A
220	B	A	F	G	I	H	D	E	J2	220-240V 10A
230	A	B	F	G	I	H	D	E	J2	220-240V 10A
240	A	B	F	G	I	H	D	E	J2	220-240V 10A



**2** MAIN 752035 SCH 1 OF 3

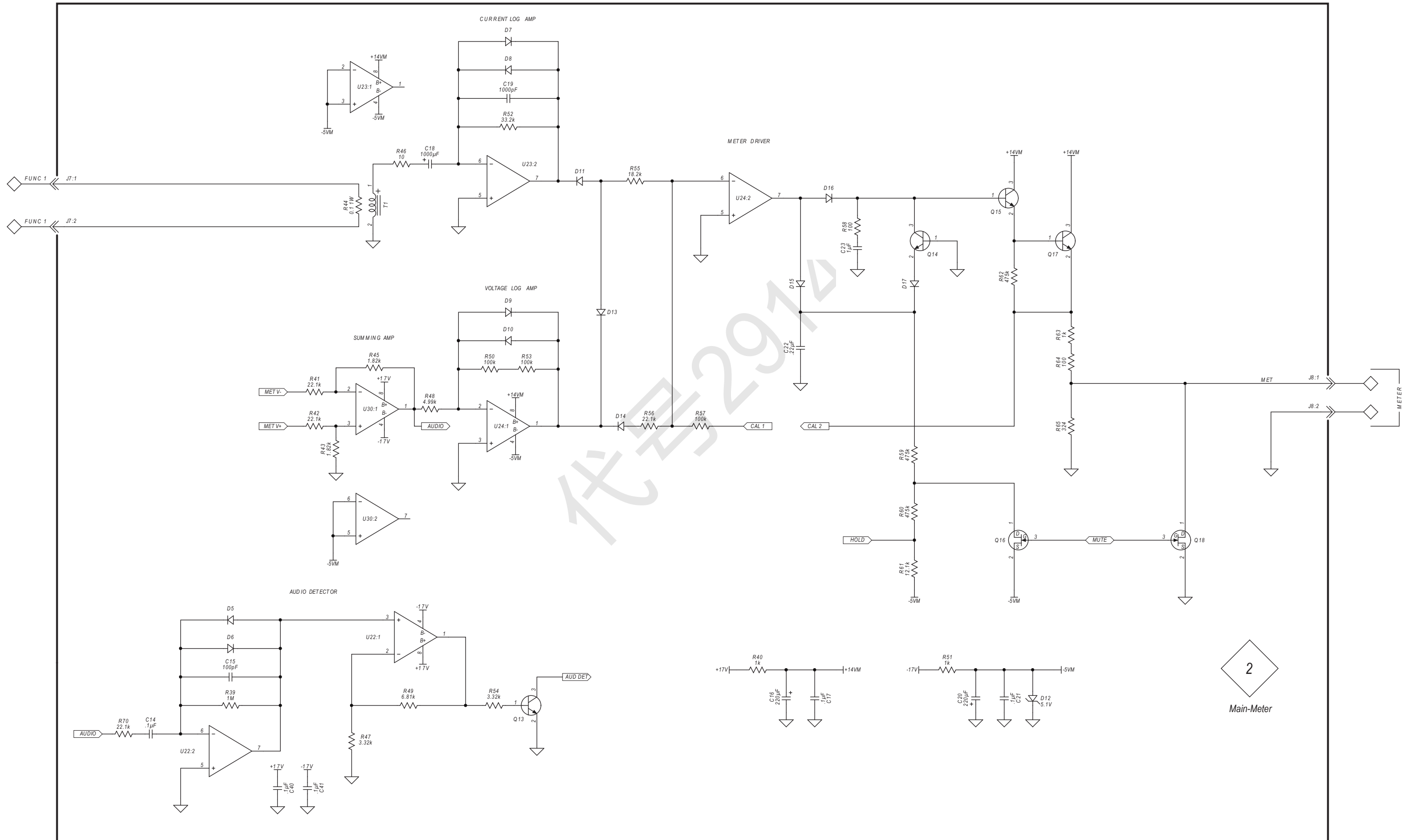


TEST ONLY  
NO CONNECTION  
APPLY 12VDC  
TO ENERGIZE RELAYS  
WITH NO AC POWER

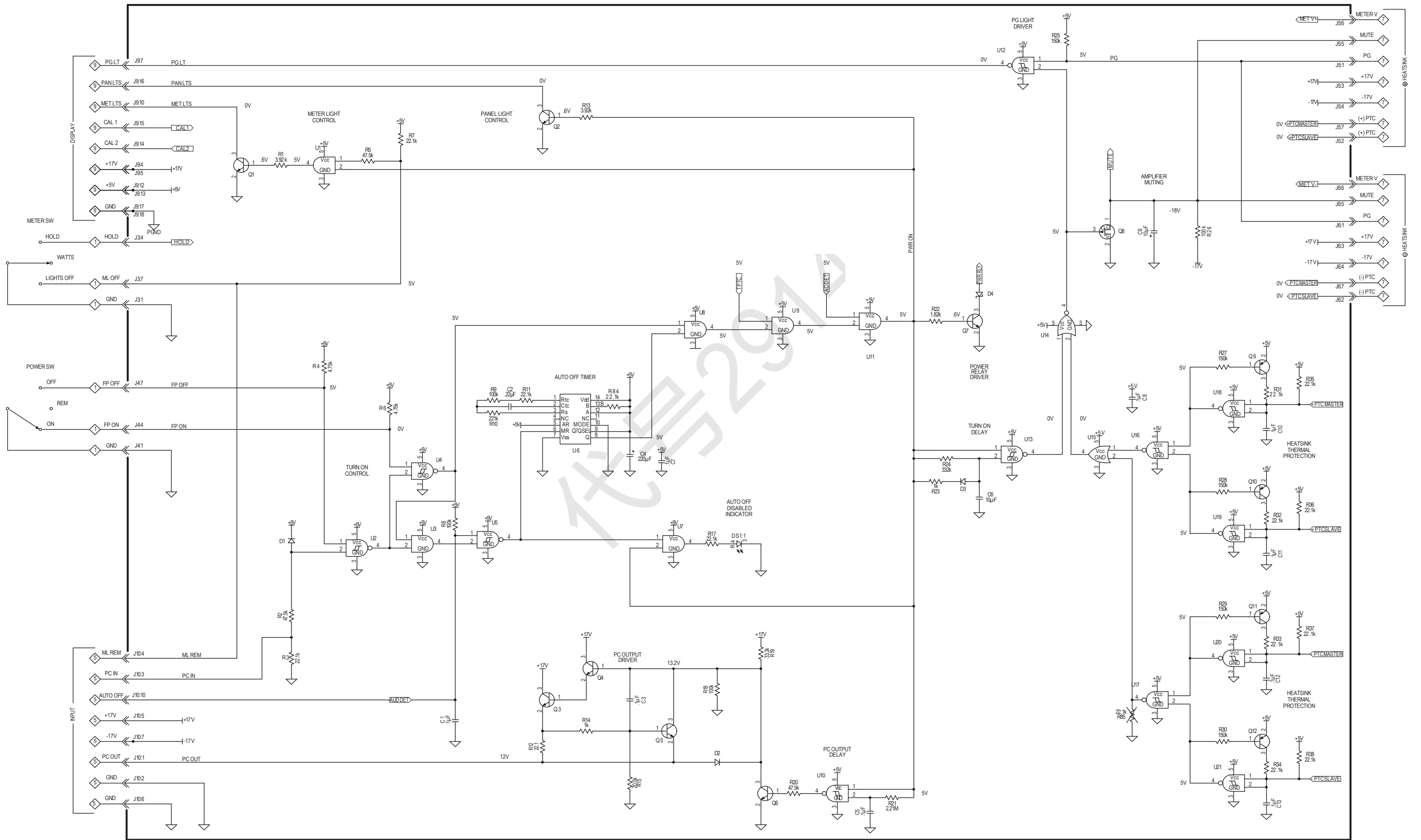
**2**  
Main-Power Supply

**!** WARNING Parts marked with a triangle and exclamation mark have critical characteristics. Use only replacement parts recommended by the manufacturer.

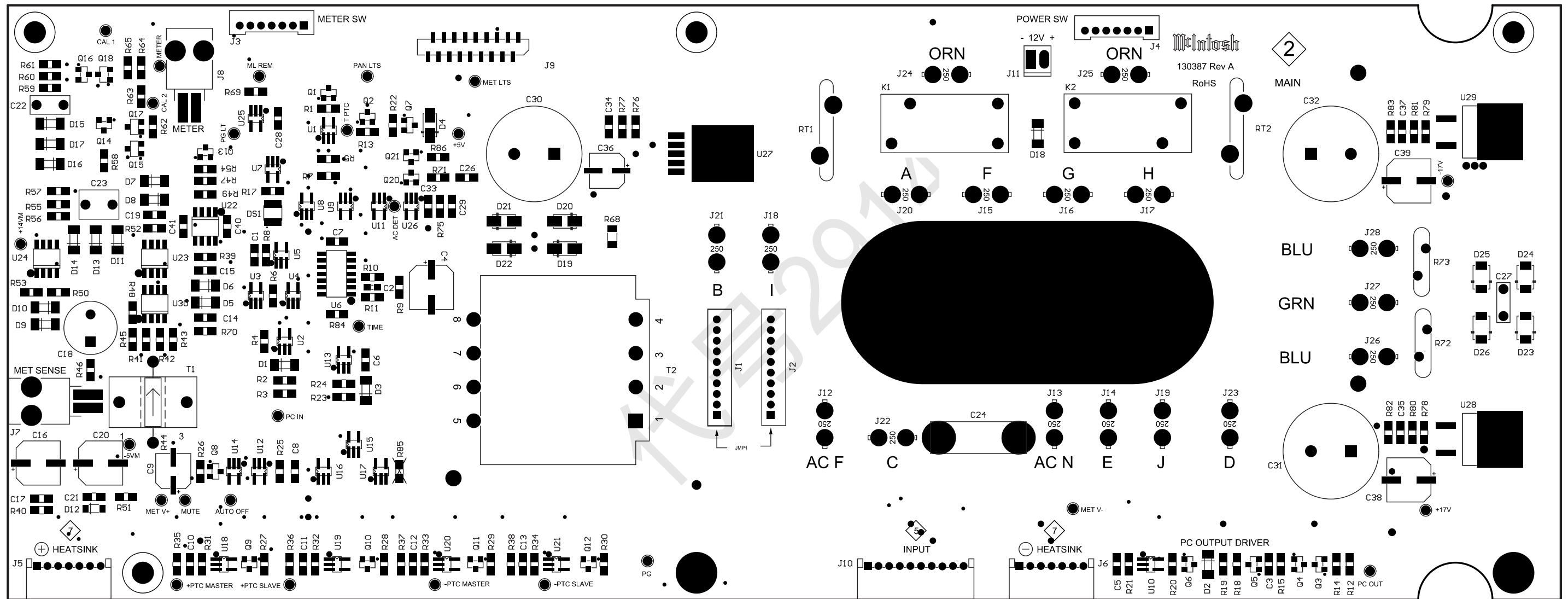
**2** MAIN 752035 SCH 2 OF 3



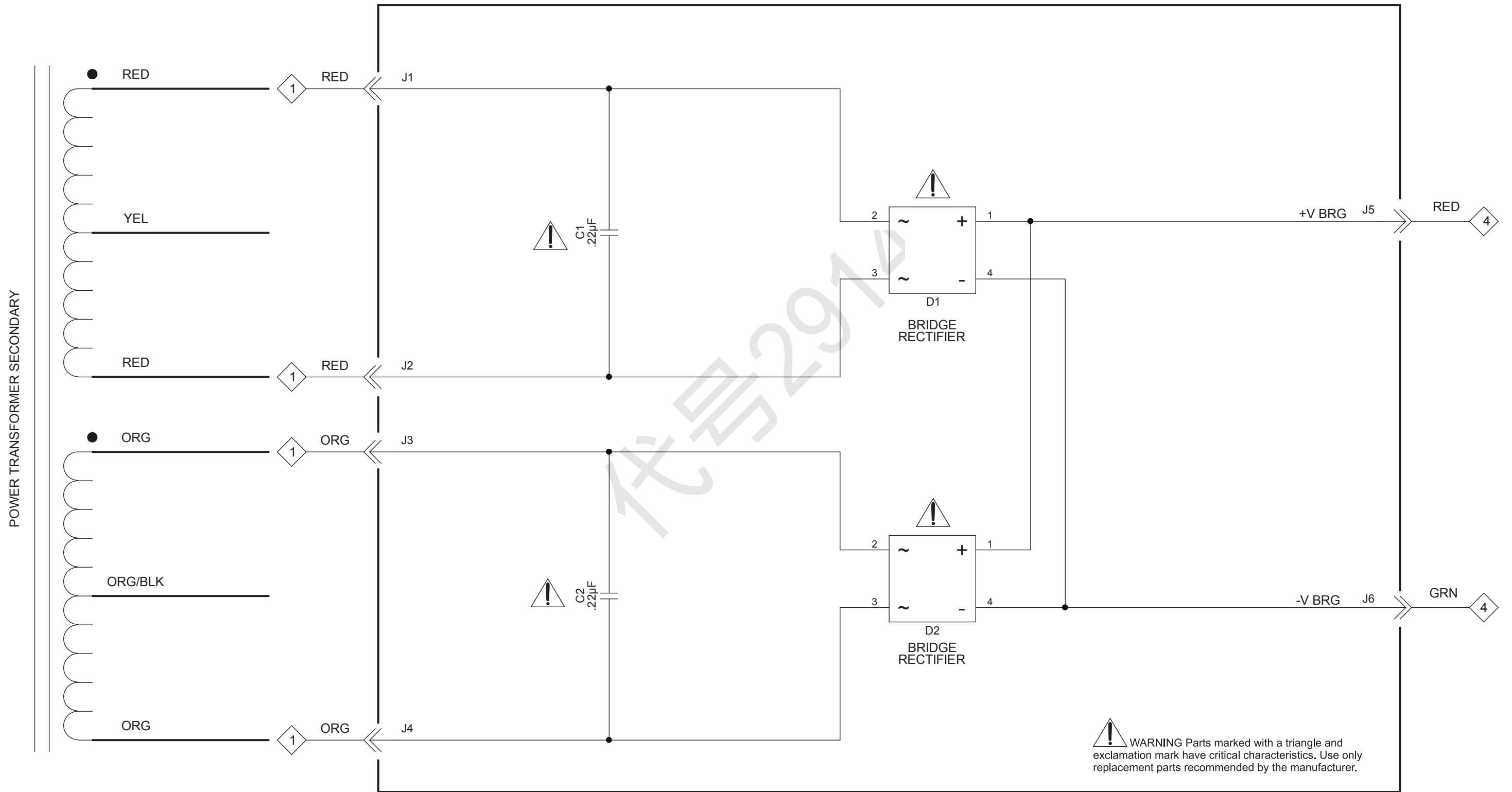
2 MAIN 752035 SCH 3 OF 3



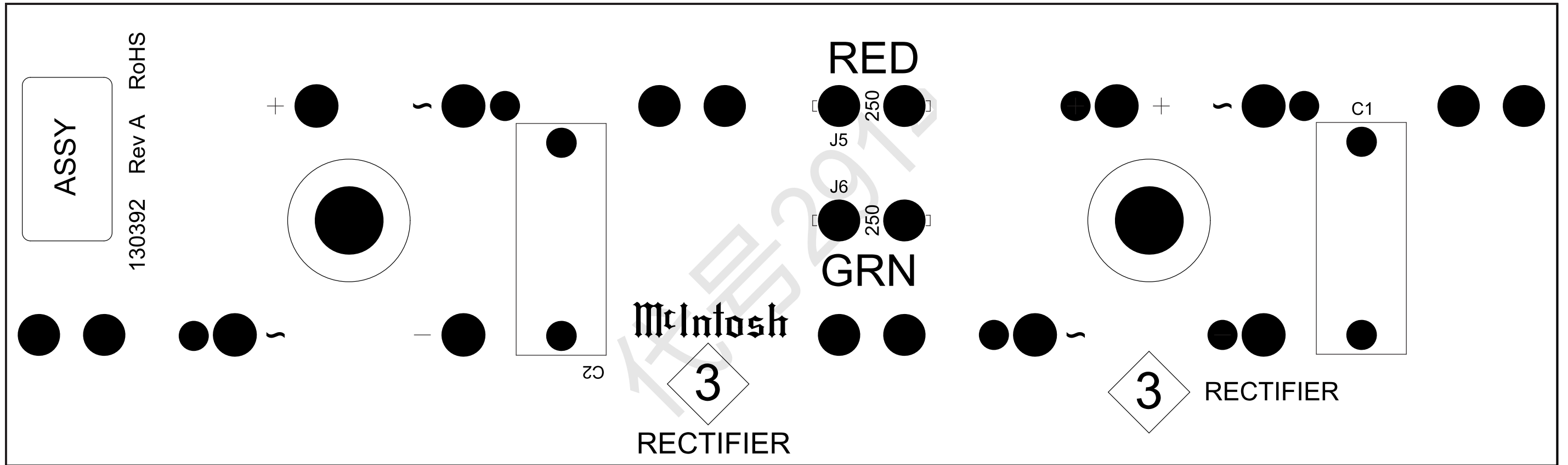
**2** MAIN 752035 PCB



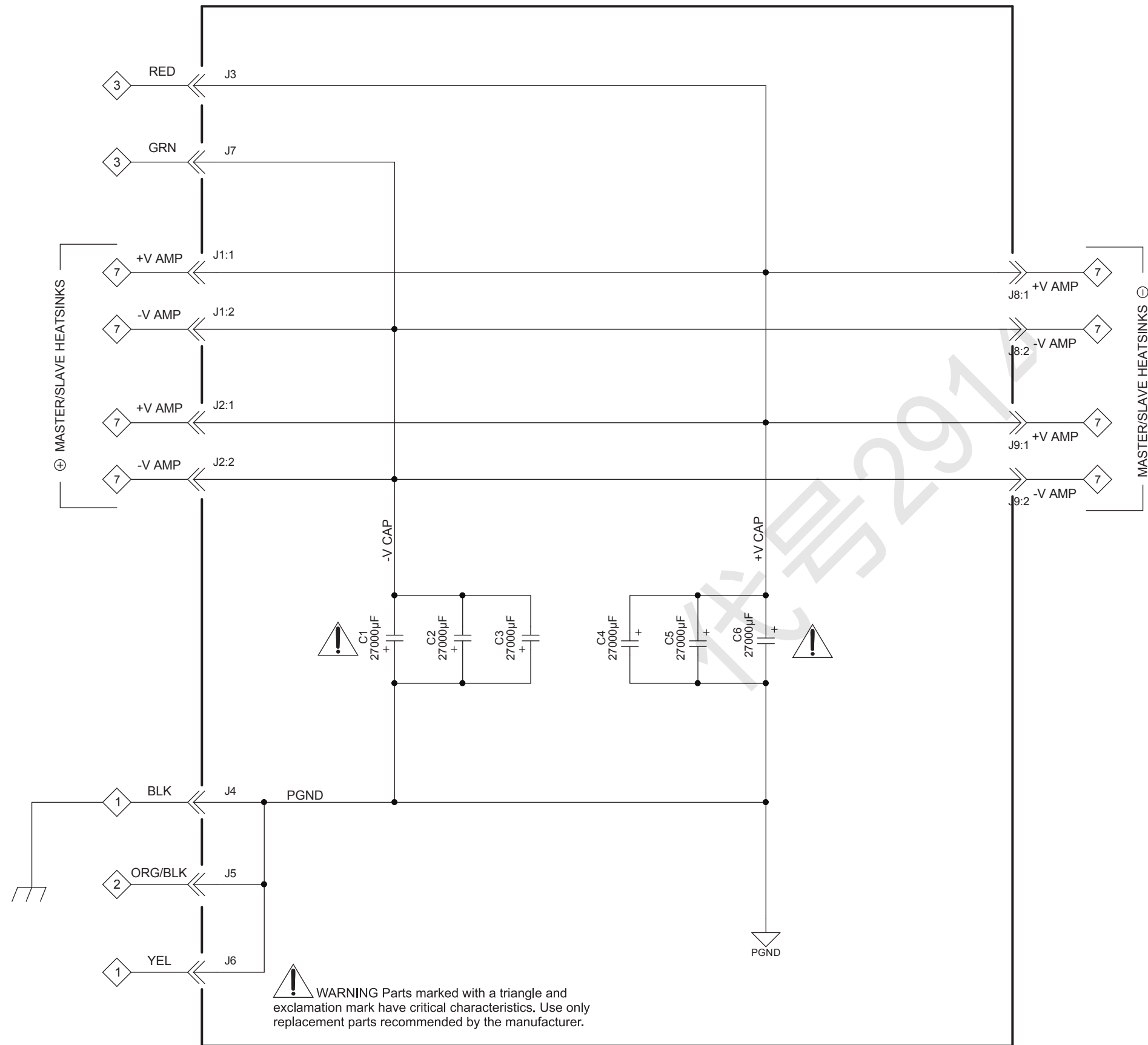
3 RECTIFIER 752040 SCH



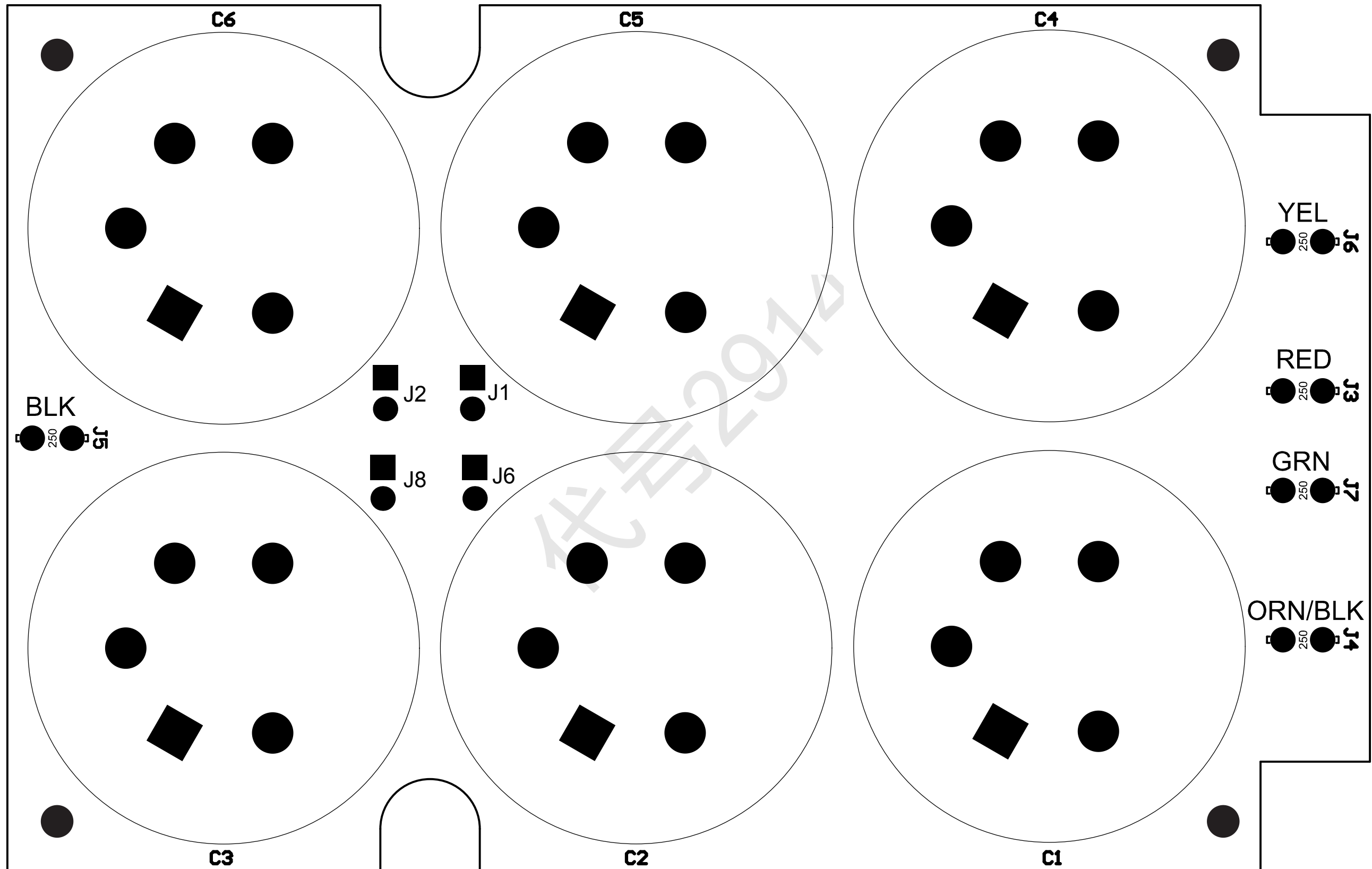
**3** RECTIFIER 752040 PCB



**4** CAPACITOR 752039 SCH

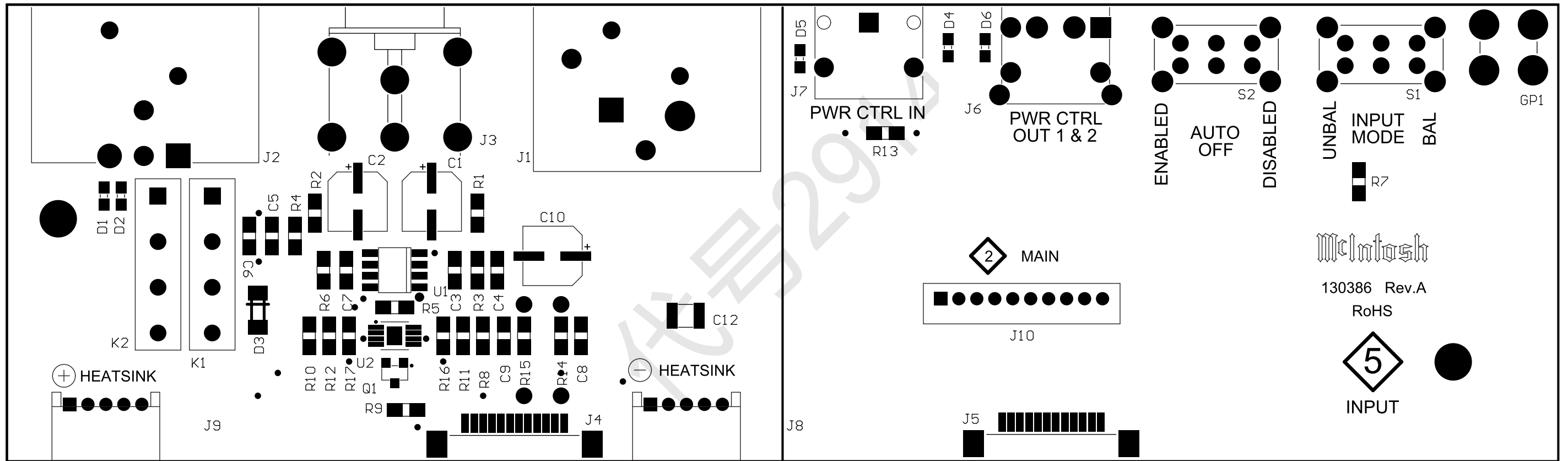


**4** CAPACITOR 752039 PCB

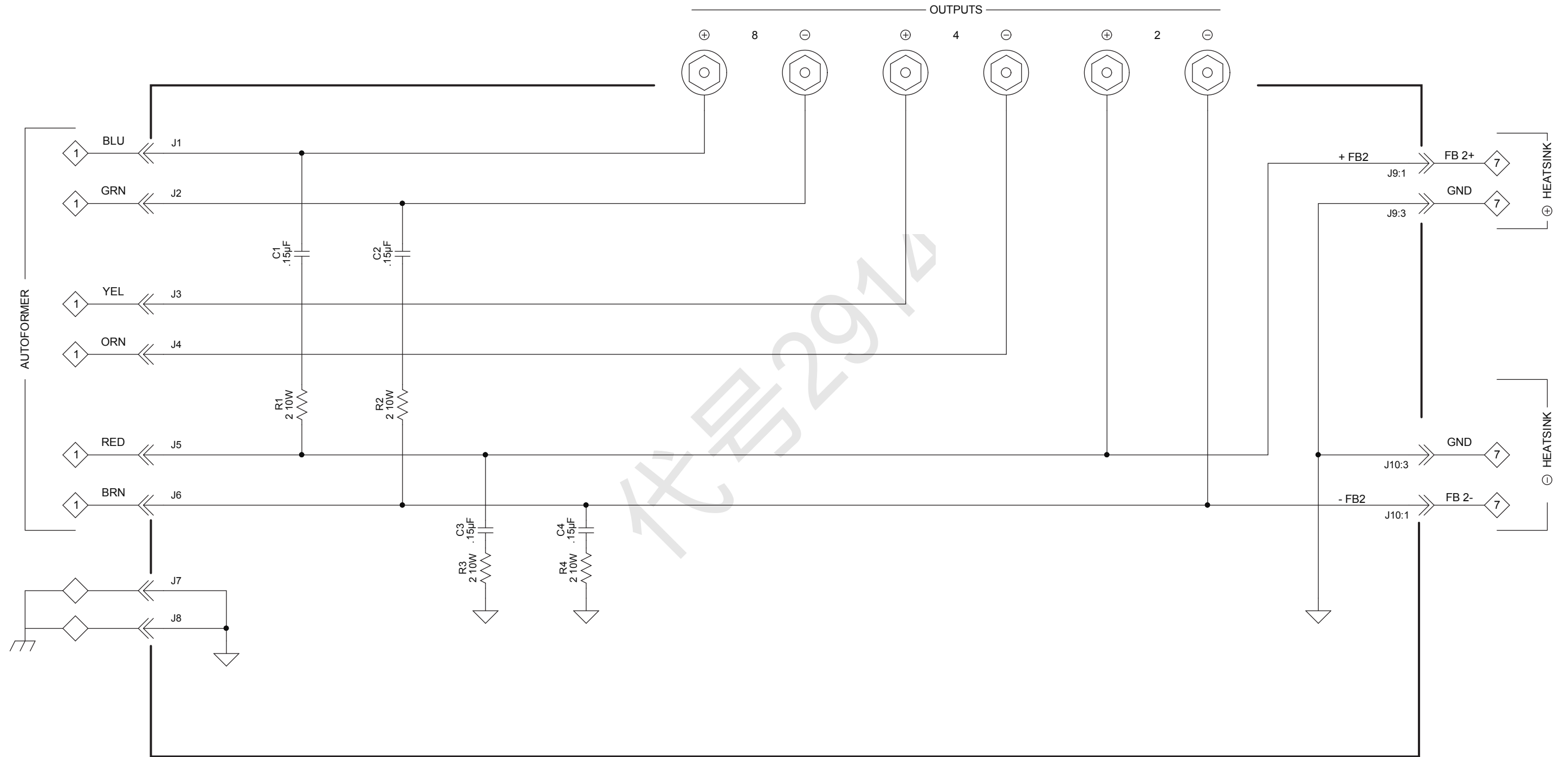




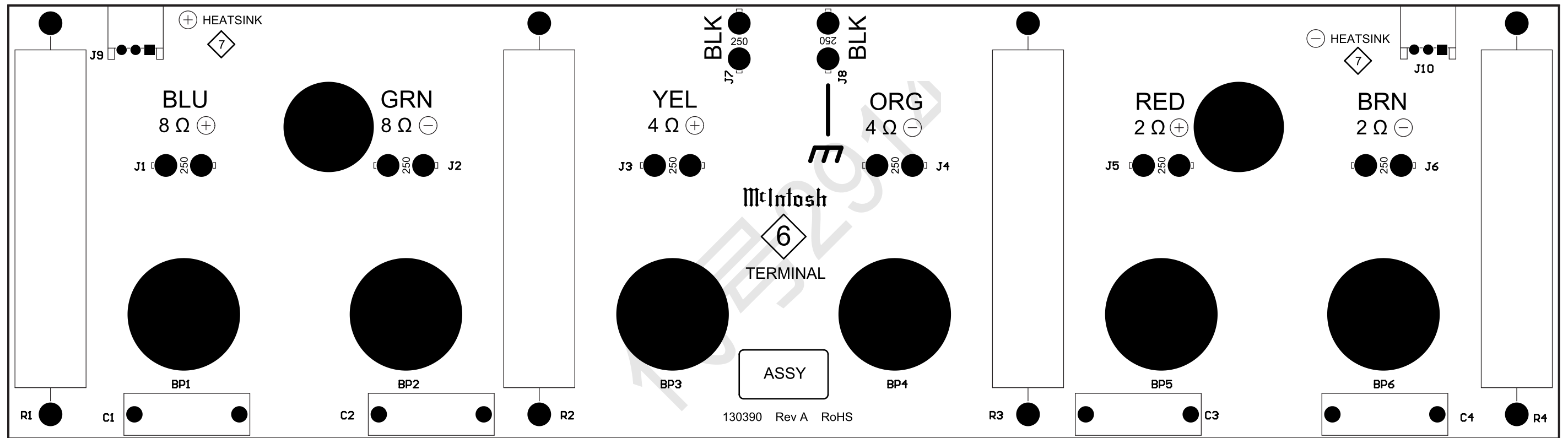
**5** INPUT 752034 PCB



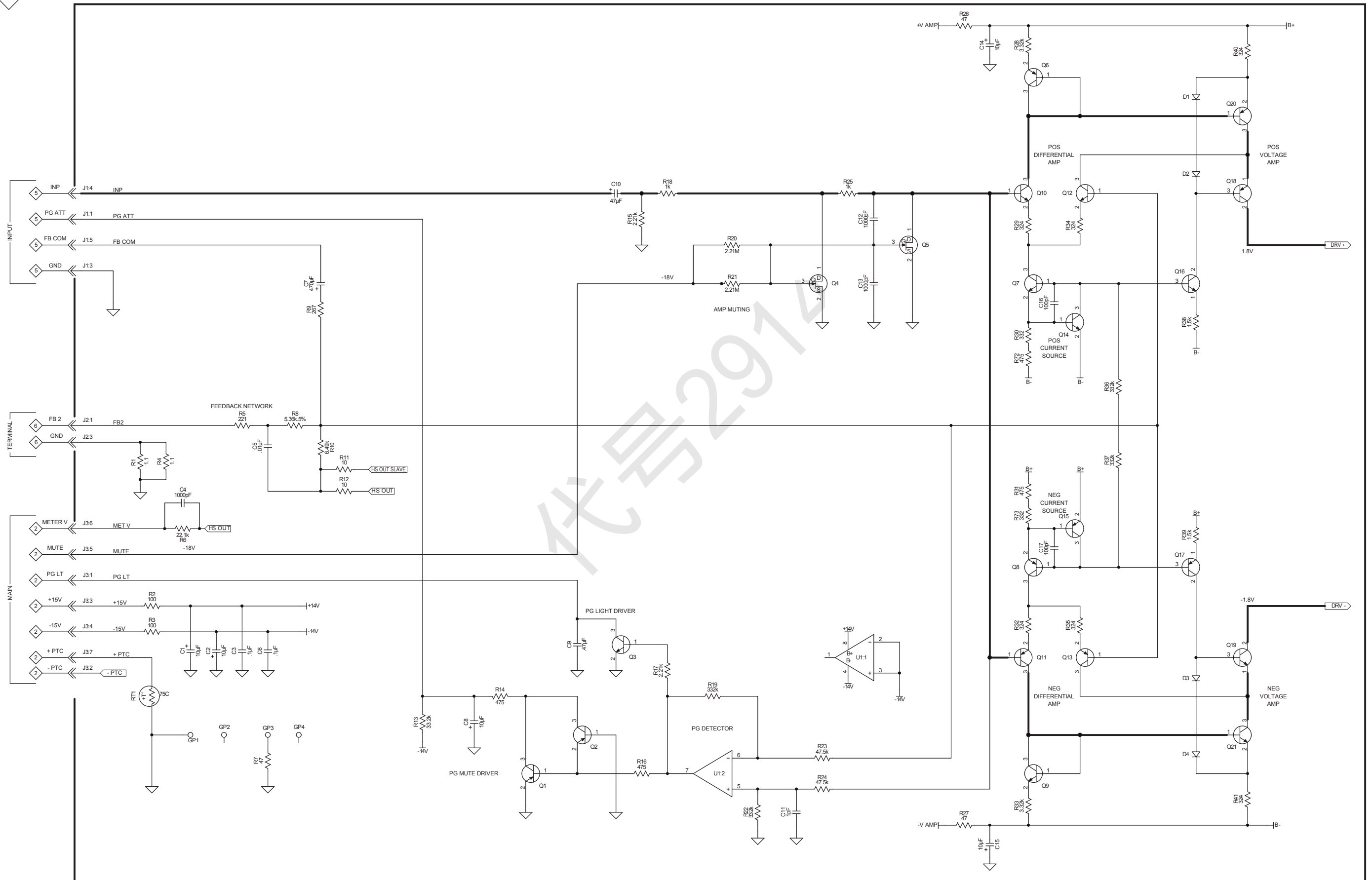
6 TERMINAL 752038 SCH

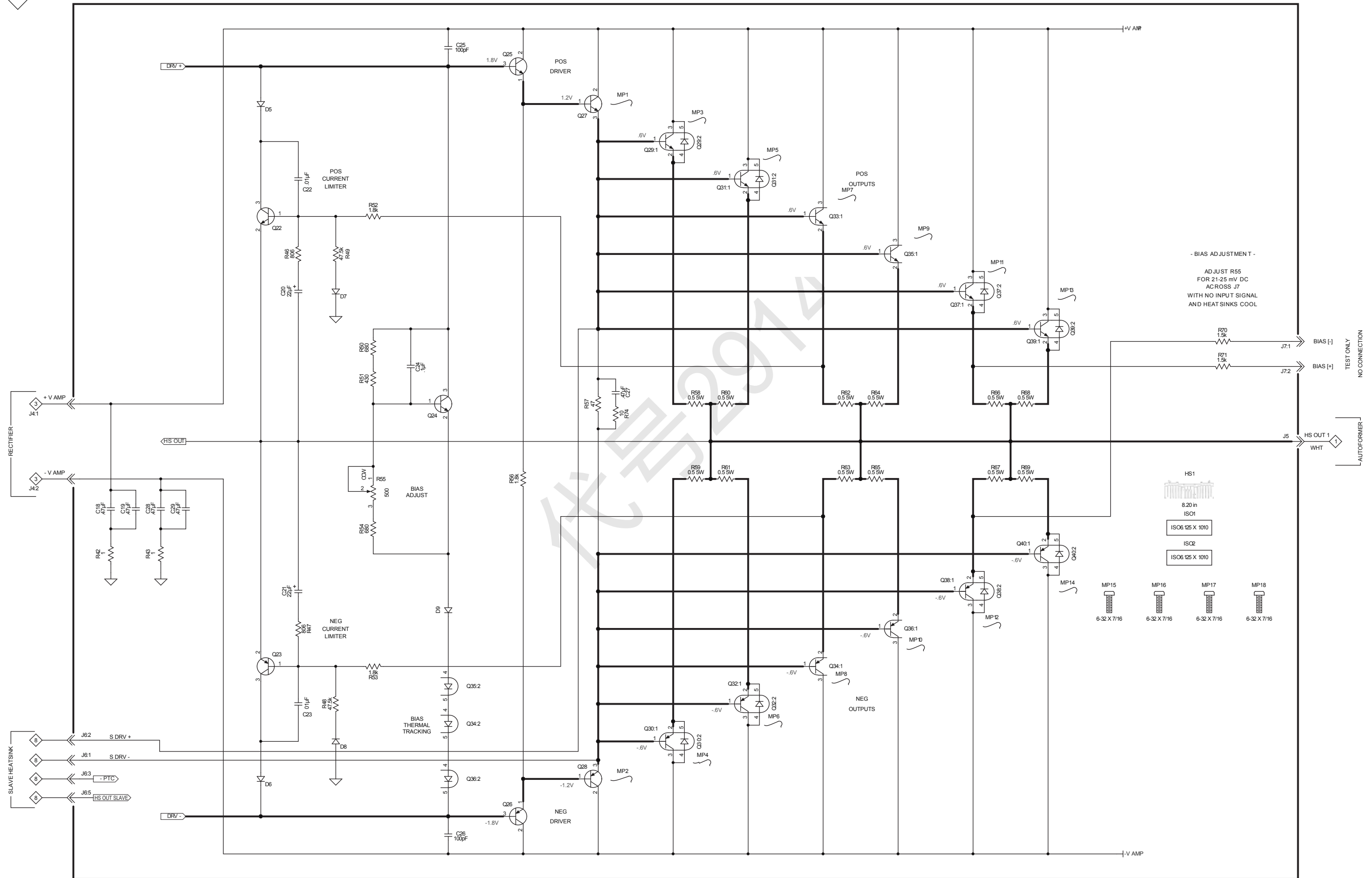


**6** *TERMINAL 752038 PCB*

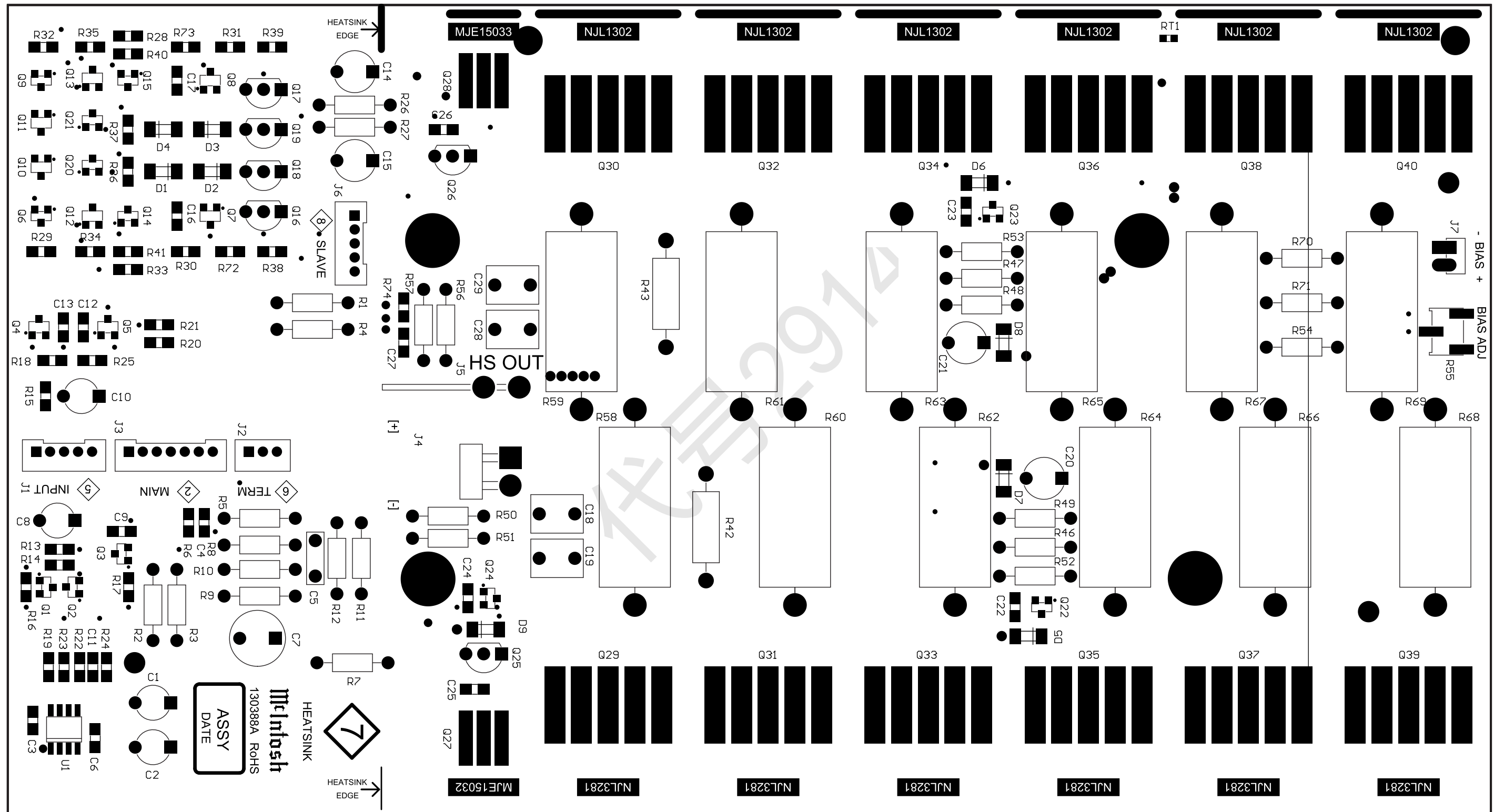


7 HEATSINK 752036 SCH 1 of 2

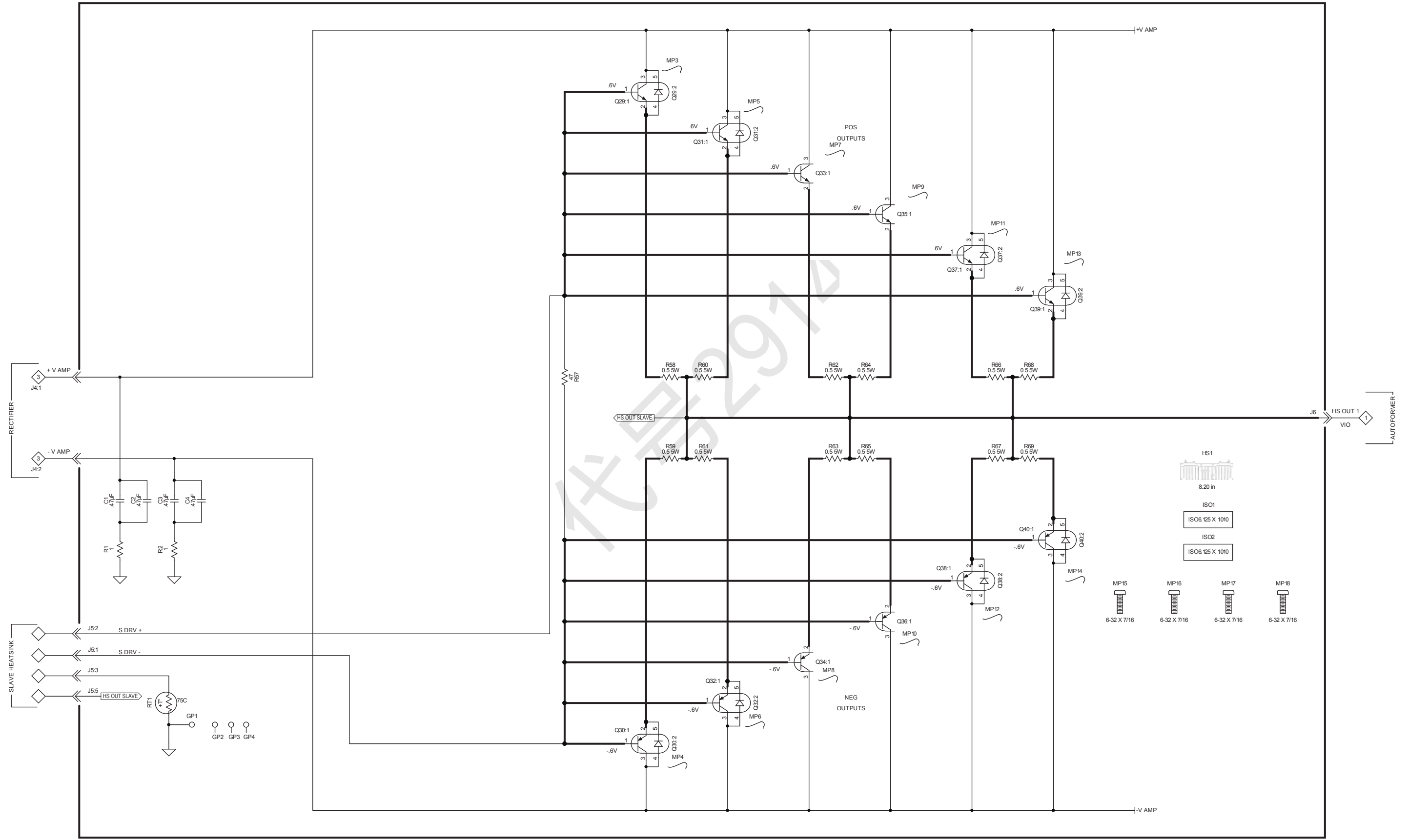




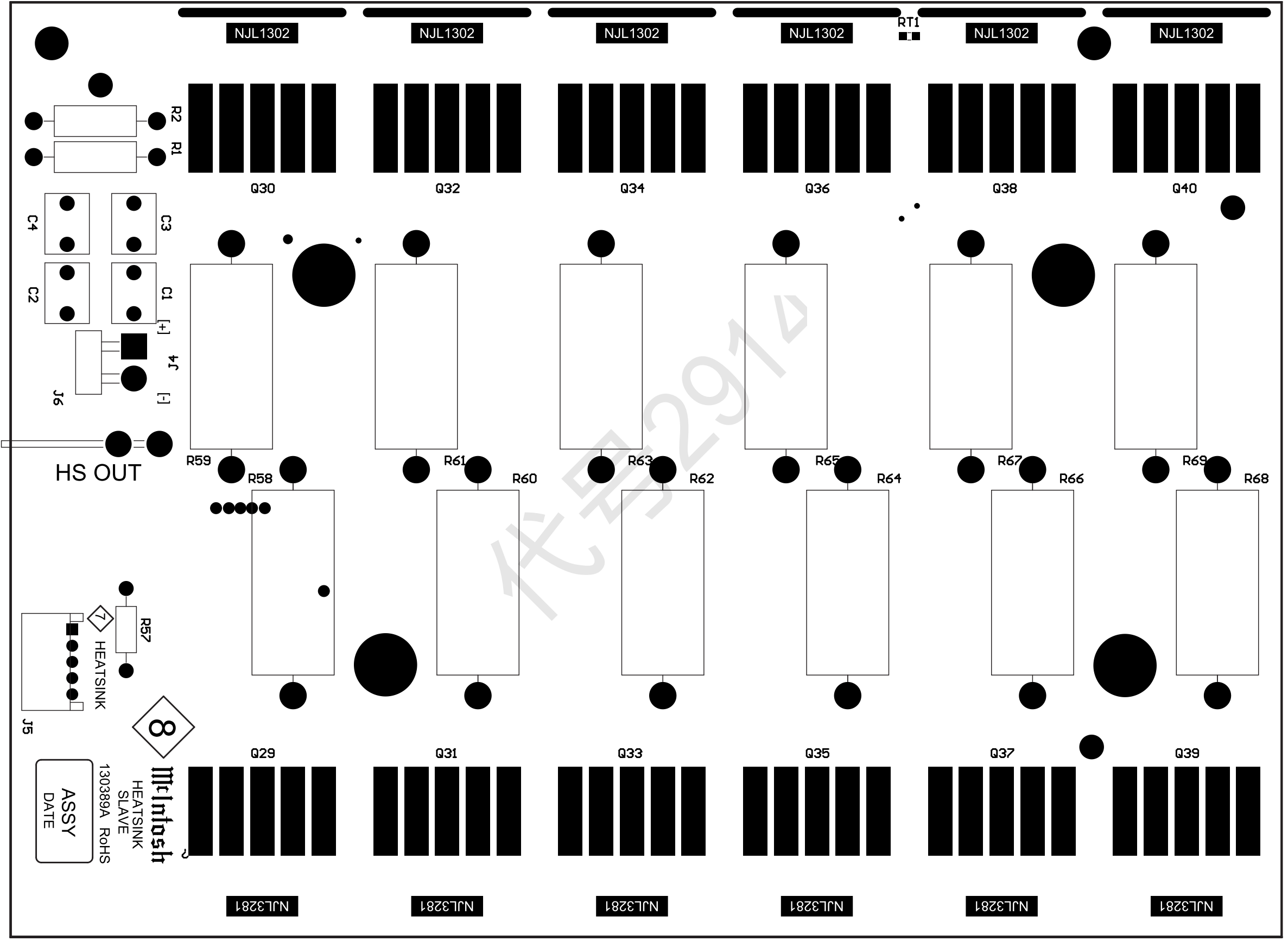
7 HEATSINK 752036 PCB



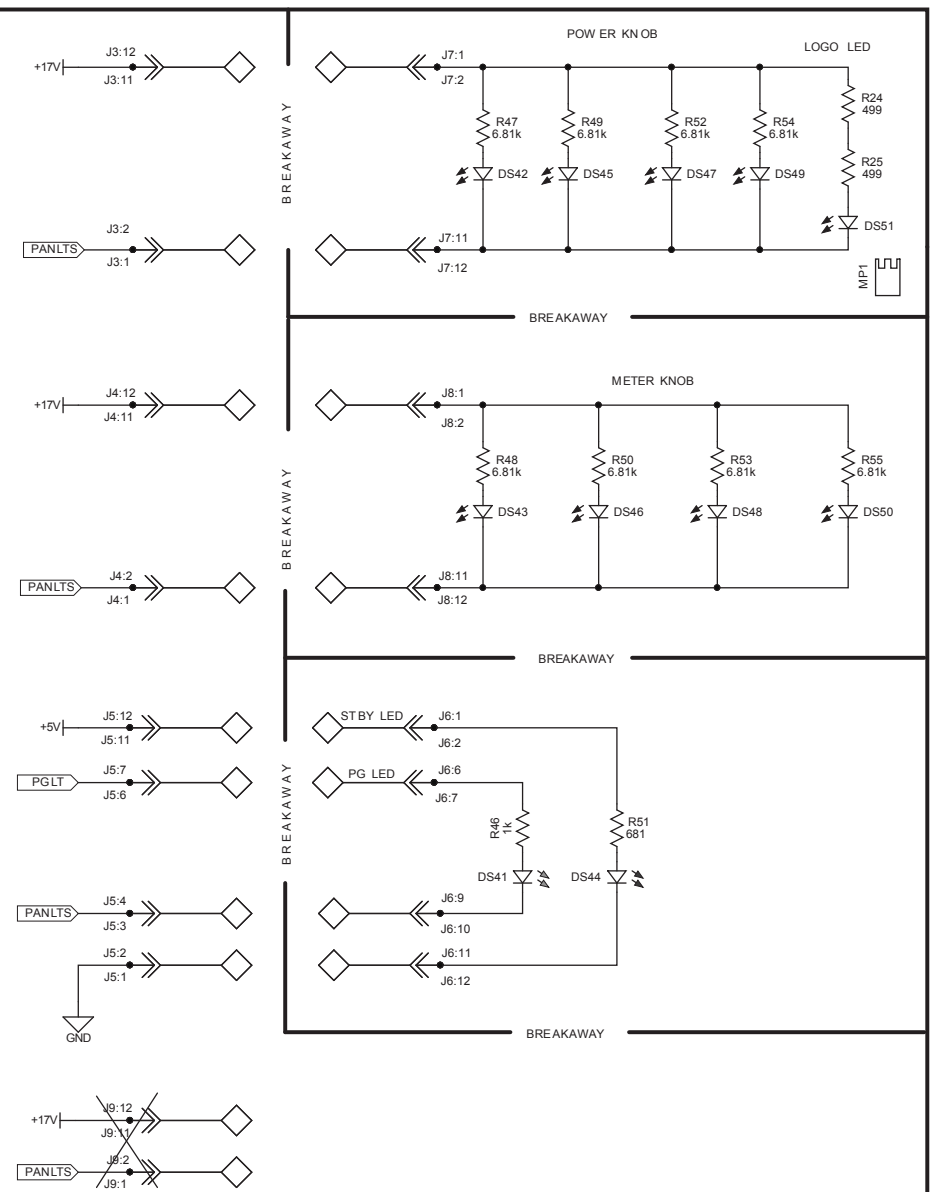
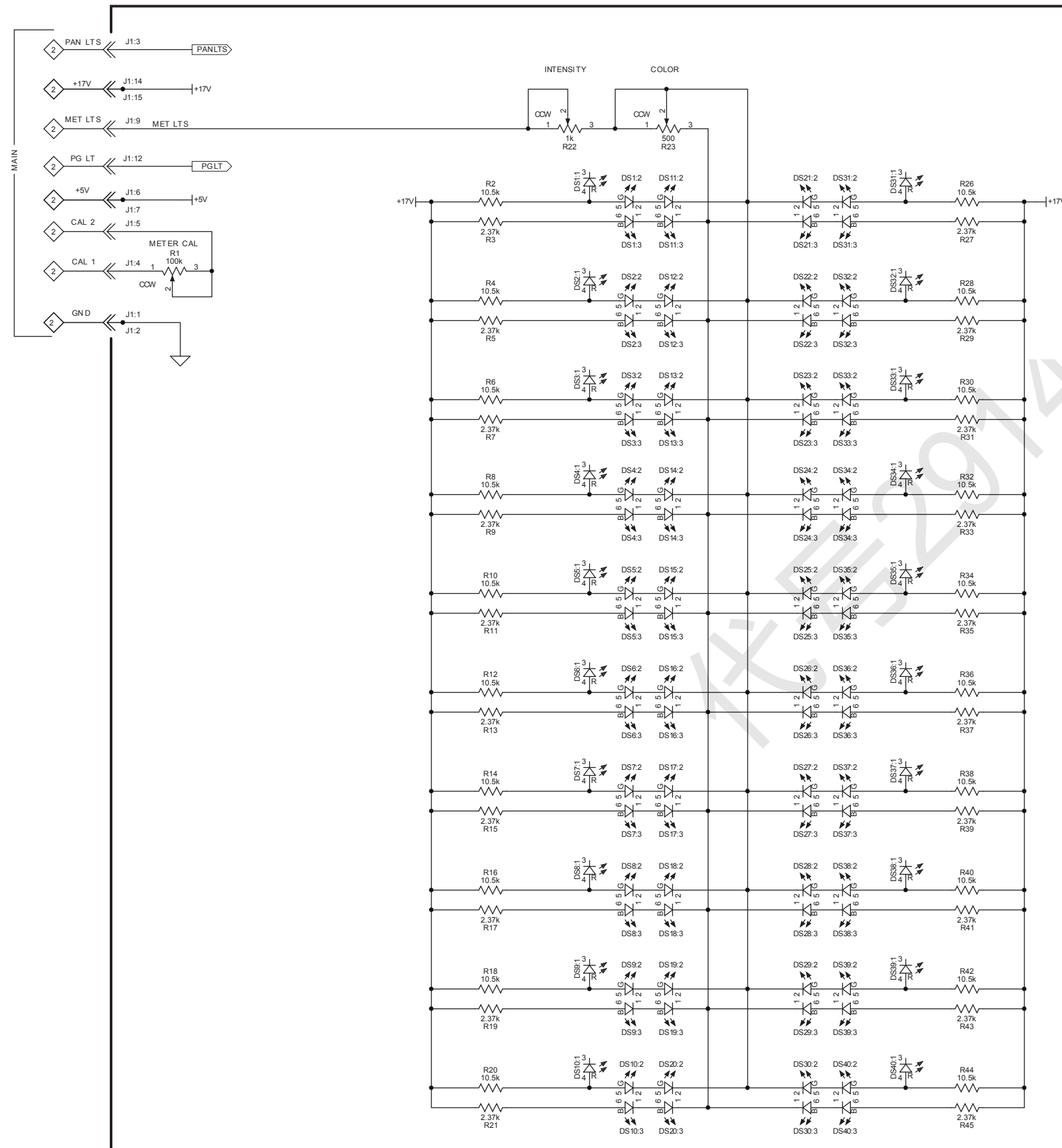
# 8 HEATSINK SLAVE 752037 SCH



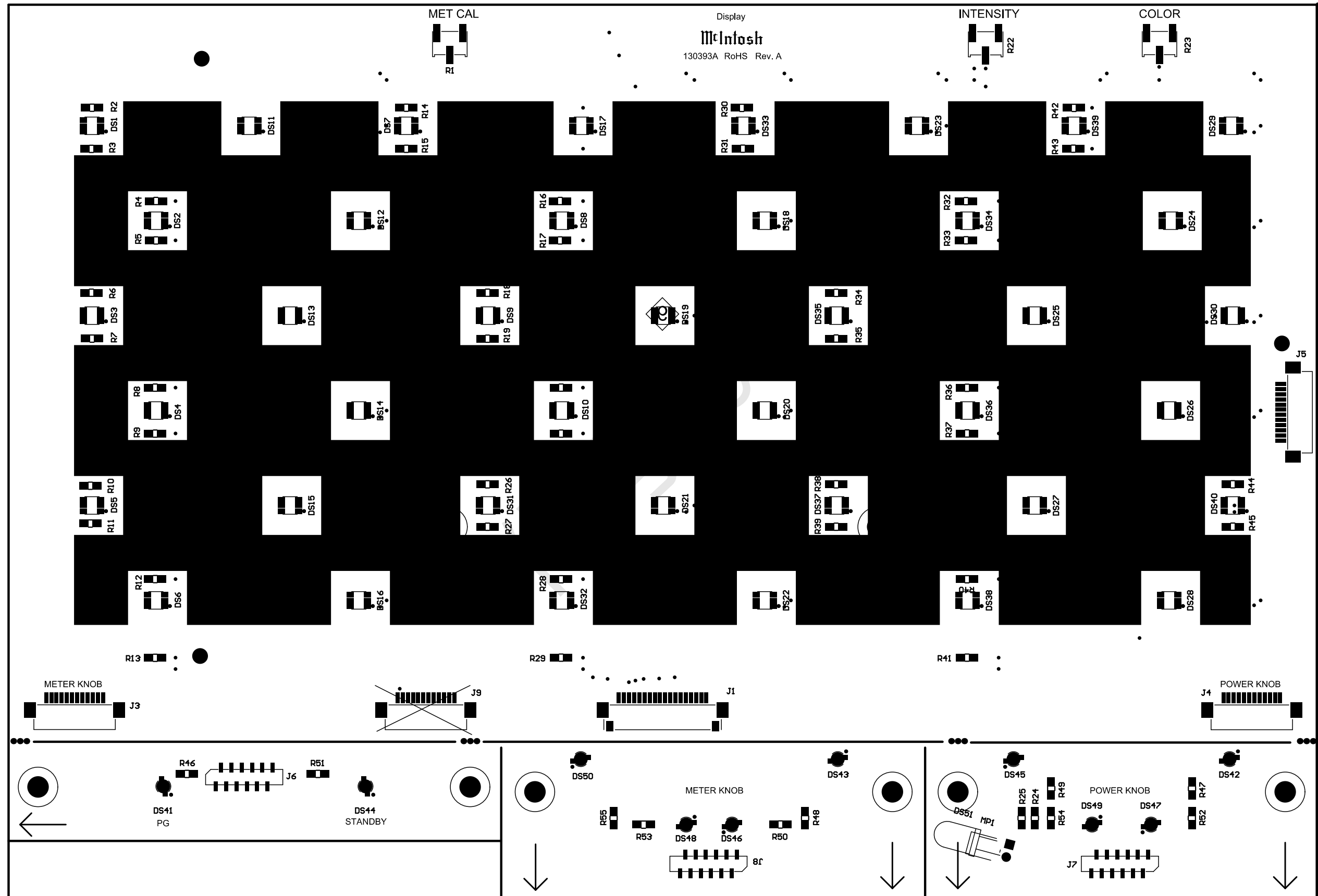
8 HEATSINK SLAVE 752037 PCB



# 9 DISPLAY 752041 SCH



9 DISPLAY 752041 PCB



# NOTES

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## PARTS LIST

## INTERCONNECT

Ref. No.	Description	Part No.	Ref. No.	Description	Part No.
BP1	MCINTOSH BINDING POST	084226	C21	CAP MONO .1uF 50V +/-20% X7R SMD	061365
BP2	MCINTOSH BINDING POST	084226	C22	CAP MPF 0.22UF 5% 63VDC	064329
BP3	MCINTOSH BINDING POST	084226	C23	CAP MPF 1UF 5% 63VDC	064337
BP4	MCINTOSH BINDING POST	084226	C24	CAP POLYPROP 0.15UF 10% 275VDC	064464
BP5	MCINTOSH BINDING POST	084226	C26	CAP .47uF 50V 20% X7R SMD0805	061373
BP6	MCINTOSH BINDING POST	084226	C27	CAP MPF 0.047UF 5% 63VDC	064320
CA1	CABLE FFC12 CONDUCTOR 70MM	171318	C28	CAP MONO .1uF 50V +/-20% X7R SMD	061365
CA2	CABLE FFC12 CONDUCTOR 70MM	171318	C29	CAP MONO .1uF 50V +/-20% X7R SMD	061365
CA3	CABLE FFC12 CONDUCTOR 70MM	171318	C30	CAP ELECT 3300UF 35V	066509
CA4	CBL FLT FLEXIBLE 18 COND 120MM	171671	C31	CAP ELECT 3300UF 35V	066509
CA5	CABLE ASSY MAIN/HEATSINK	173092	C32	CAP ELECT 3300UF 35V	066509
CA6	CABLE ASSY DISPLAY/HS 1/4	173136	C33	CAP MONO .1uF 50V +/-20% X7R SMD	061365
CA7	CABLE ASSY MAIN/HEATSINK	173092	C35	CAP 10UF 20% 16V X5R SMD0805	061392
CA8	CABLE ASSY CAP/HEATSINK	173321	C37	CAP 10UF 20% 16V X5R SMD0805	061392
CA9	CABLE ASSY CAP/HEATSINK	173321	C38	CAP ELECT 220UF 25V SMD	066606
CA10	CABLE ASSY CAP/HEATSINK	173321	C39	CAP ELECT 220UF 25V SMD	066606
CA11	CABLE ASSY CAP/HEATSINK	173321	C40	CAP MONO .1uF 50V +/-20% X7R SMD	061365
CA12	CABLE ASSY HEATSINK/SLAVE	173314	C41	CAP MONO .1uF 50V +/-20% X7R SMD	061365
CA13	CABLE ASSY HEATSINK/SLAVE	173314	C34	CAP .01UF 50V 20% X7R SMD0805	061372
CA14	CABLE ASSY TRANSFORMER/CAP	173322	C36	CAP ELECT 100UF 25V SMD	066605
CA15	CABLE ASSY INPUT/HEATSINK	173320	D1	DIODE SMALL SIGNAL 4148 SMD	070199
CA16	CABLE ASSY INPUT/HEATSINK	173320	D2	DIODE SMALL SIGNAL 4148 SMD	070199
CA17	CABLE ASSY TERMINAL/HEATSINK	173307	D3	DIODE SMALL SIGNAL 4148 SMD	070199
CA18	CABLE ASSY TERMINAL/HEATSINK	173307	D4	DIODE SCHOTTKY 40V 2A SMD	070210
CA19	CABLE FFC12 CONDUCTOR 70MM	173318	D5	DIODE SMALL SIGNAL 4148 SMD	070199
CA20	CABLE ASSY CAP/CHASSIS	173317	D6	DIODE SMALL SIGNAL 4148 SMD	070199
CA21	CABLE ASSY AC	173310	D7	DIODE SMALL SIGNAL 4148 SMD	070199
CA22	CABLE ASSY CAP/RECTIFIER	173319	D8	DIODE SMALL SIGNAL 4148 SMD	070199
J1	CONN AC LINE INPUT IEC FASTON	117886	D9	DIODE SMALL SIGNAL 4148 SMD	070199
JMP1	CONVERSION JUMPER	173085	D10	DIODE SMALL SIGNAL 4148 SMD	070199
MT1	METER MC1.25KW	124144	D11	DIODE SMALL SIGNAL 4148 SMD	070199
SW1	SWITCH ASSY POWER/METER	052140	D12	DIODE ZENER 5.1V 5% SMD	070215
SW2	SWITCH ASSY POWER/METER	052140	D13	DIODE SMALL SIGNAL 4148 SMD	070199
T1	ASSY AUTOFORMER POTTED	752053	D14	DIODE SMALL SIGNAL 4148 SMD	070199
T2	CONTACT McINTOSH SERVICE DEPT		D15	DIODE SMALL SIGNAL 4148 SMD	070199
CB1	CIRCUIT BREAKER 20A	088022	D16	DIODE SMALL SIGNAL 4148 SMD	070199

## MAIN PCB 752035

C1	CAP MONO .1uF 50V +/-20% X7R SMD	061365	D17	DIODE SMALL SIGNAL 4148 SMD	070199
C2	CAP .22uF 10% 10V X7R SMD0603	061387	D18	DIODE SMALL SIGNAL 4148 SMD	070199
C3	CAP MONO .1uF 50V +/-20% X7R SMD	061365	D19	DIODE SCHOTTKY 40V 2A SMD	070210
C4	CAP ELECT 220UF 25V SMD	066606	D20	DIODE SCHOTTKY 40V 2A SMD	070210
C5	CAP MONO .1uF 50V +/-20% X7R SMD	061365	D21	DIODE SCHOTTKY 40V 2A SMD	070210
C6	CAP 10UF 20% 16V X5R SMD0805	061392	D22	DIODE SCHOTTKY 40V 2A SMD	070210
C7	CAP MONO .1uF 50V +/-20% X7R SMD	061365	D23	DIODE RECTIFIER 400V 1A SMD	070208
C8	CAP MONO .1uF 50V +/-20% X7R SMD	061365	D24	DIODE RECTIFIER 400V 1A SMD	070208
C9	CAP ELECT 10UF 50V SMD	066602	D25	DIODE RECTIFIER 400V 1A SMD	070208
C10	CAP MONO .1uF 50V +/-20% X7R SMD	061365	D26	DIODE RECTIFIER 400V 1A SMD	070208
C11	CAP MONO .1uF 50V +/-20% X7R SMD	061365	DS1	LED RGB SMD	058218
C12	CAP MONO .1uF 50V +/-20% X7R SMD	061365	J1	10 PIN SHROUDED HEADER 2MM	117973
C13	CAP MONO .1uF 50V +/-20% X7R SMD	061365	J2	10 PIN SHROUDED HEADER 2MM	117973
C14	CAP MONO .1uF 50V +/-20% X7R SMD	061365	J3	HEADER 7 PIN SHROUDED	117910
C15	CAP 100PF 200V 5% SMD0805	061390	J4	HEADER 7 PIN SHROUDED	117910
C16	CAP ELECT 220UF 25V SMD	066606	J5	HEADER 2MM 7PIN R-ANGLE	117941
C17	CAP MONO .1uF 50V +/-20% X7R SMD	061365	J6	HEADER 2MM 7PIN R-ANGLE	117941
C18	CAP ELECT 1000UF 25V	066513	J7	CONNECTOR LATCHING 2PIN RA SMD	118027
C19	CAP NPO 1000PF 100V 5% SMD0805	061391	J8	CONNECTOR LATCHING 2PIN RA SMD	118027
C20	CAP ELECT 220UF 25V SMD	066606	J9	CONN 18 PIN FFC RA SMD	117997
			J10	HEADER 2MM 10 PIN R-ANGLE	118146
			J11	CONN 2 PIN MALE	117213

# PARTS LIST (Cont'd.)

## ② MAIN PCB 752035 (Cont'd.)

Ref. No.	Description	Part No.	Ref. No.	Description	Part No.
J12	BLADE FASTON W/FEET	117708	R21	RES SMD0805 2.21M 1/8W 1%	145043
J13	BLADE FASTON W/FEET	117708	R22	RES SMD0805 1.82K 1/8W 1%	145023
J14	BLADE FASTON W/FEET	117708	R23	RES TF 1K 1% 0.1W SMD0805	145117
J15	BLADE FASTON W/FEET	117708	R24	RES SMD0805 332K 1/8W 1%	145039
J16	BLADE FASTON W/FEET	117708	R25	RES SMD0805 150K 1/8W 1%	145037
J17	BLADE FASTON W/FEET	117708	R26	RES TF 100K 1% 0.1W SMD0805	145062
J18	BLADE FASTON W/FEET	117708	R27	RES SMD0805 150K 1/8W 1%	145037
J19	BLADE FASTON W/FEET	117708	R28	RES SMD0805 150K 1/8W 1%	145037
J20	BLADE FASTON W/FEET	117708	R29	RES SMD0805 150K 1/8W 1%	145037
J21	BLADE FASTON W/FEET	117708	R30	RES SMD0805 150K 1/8W 1%	145037
J22	BLADE FASTON W/FEET	117708	R31	RES SMD0805 22.1K 1/8W 1%	145012
J23	BLADE FASTON W/FEET	117708	R32	RES SMD0805 22.1K 1/8W 1%	145012
J24	BLADE FASTON W/FEET	117708	R33	RES SMD0805 22.1K 1/8W 1%	145012
J25	BLADE FASTON W/FEET	117708	R34	RES SMD0805 22.1K 1/8W 1%	145012
J26	BLADE FASTON W/FEET	117708	R35	RES SMD0805 22.1K 1/8W 1%	145012
J27	BLADE FASTON W/FEET	117708	R36	RES SMD0805 22.1K 1/8W 1%	145012
J28	BLADE FASTON W/FEET	117708	R37	RES SMD0805 22.1K 1/8W 1%	145012
K1	RELAY POWER TV8 12V	087087	R38	RES SMD0805 22.1K 1/8W 1%	145012
K2	RELAY POWER TV8 12V	087087	R39	RES TF 1M 1% 0.125W SMD0805	145131
PCB1	PC BD MAIN	130387	R40	RES TF 1K 1% 0.1W SMD0805	145117
Q1	TRANSISTOR NPN A05 SMD	132333	R41	RES SMD0805 22.1K 1/8W 1%	145012
Q2	TRANSISTOR NPN A05 SMD	132333	R42	RES SMD0805 22.1K 1/8W 1%	145012
Q3	TRANSISTOR NPN A05 SMD	132333	R43	RES SMD0805 1.82K 1/8W 1%	145023
Q4	TRANSISTOR NPN A05 SMD	132333	R44	RES WW 0.1 OHM 5% 1W	144697
Q5	TRANSISTOR NPN A05 SMD	132333	R45	RES SMD0805 1.82K 1/8W 1%	145023
Q6	TRANSISTOR NPN A05 SMD	132333	R46	RES TF 10 1% 0.1W SMD0805	145063
Q7	TRANSISTOR NPN A05 SMD	132333	R47	RES SMD0805 22.1K 1/8W 1%	145012
Q8	TRANSISTOR PCH MMBFJ176 SMD	132355	R48	RES TF 4.99K .5% 1/8W SMD0805	145134
Q9	TRANSISTOR PNP A55 SMD	132334	R49	RES TF 100K 1% 0.1W SMD0805	145062
Q10	TRANSISTOR PNP A55 SMD	132334	R50	RES TF 100K 1% 0.1W SMD0805	145062
Q11	TRANSISTOR PNP A55 SMD	132334	R51	RES TF 1K 1% 0.1W SMD0805	145117
Q12	TRANSISTOR PNP A55 SMD	132334	R52	RES SMD0805 33.2K 1/8W 1%	145033
Q13	TRANSISTOR NPN A05 SMD	132333	R53	RES TF 100K 1% 0.1W SMD0805	145062
Q14	TRANSISTOR NPN A05 SMD	132333	R54	CAP MONO .1UF 50V ±20% X7R SMD	061365
Q15	TRANSISTOR NPN 2SC3324 SMD	132345	R55	RES SMD0805 18.2K 1/8W 1%	145031
Q16	TRANSISTOR NCH MMBF4392 SMD	132349	R56	RES SMD0805 22.1K 1/8W 1%	145012
Q17	TRANSISTOR NPN 2SC3324 SMD	132345	R57	RES TF 100K 1% 0.1W SMD0805	145062
Q18	TRANSISTOR NCH MMBFJ108 SMD	132354	R58	RES TF 100 1% 0.1W SMD0805	145060
Q20	TRANSISTOR NPN A05 SMD	132333	R59	RES SMD0805 475K 1/8W 1%	145040
Q21	TRANSISTOR NPN A05 SMD	132333	R60	RES SMD0805 475K 1/8W 1%	145040
R1	RES SMD0805 3.92K 1/8W 1%	145027	R61	RES SMD0805 12.1K 1/8W 1%	145030
R2	RES TF 47.5K 1% 0.125W SMD0805	145132	R62	RES SMD0805 475K 1/8W 1%	145040
R3	RES SMD0805 22.1K 1/8W 1%	145012	R63	RES TF 1K 1% 0.1W SMD0805	145117
R4	RES SMD0805 4.75K 1/8W 1%	145008	R64	RES TF 100 1% 0.1W SMD0805	145060
R5	RES TF 47.5K 1% 0.125W SMD0805	145132	R65	RES TF 324 1% 0.1W SMD0805	145079
R6	RES SMD0805 4.75K 1/8W 1%	145008	R68	FUSE 0.35A 16V RESET 1206 SMD	145054
R7	RES SMD0805 22.1K 1/8W 1%	145012	R69	RES TF 10K 1% 0.1W SMD0805	145061
R8	RES TF 100K 1% 0.1W SMD0805	145062	R70	RES SMD0805 22.1K 1/8W 1%	145012
R9	RES TF 100K 1% 0.1W SMD0805	145062	R71	RES TF 100K 1% 0.1W SMD0805	145062
R10	RES TF 221K .125W .5% SMD0805	145140	R72	RES POLY SWITCH RXE110	144671
R11	RES SMD0805 22.1K 1/8W 1%	145012	R73	RES POLY SWITCH RXE110	144671
R12	RES TF 22.1 .5% .1W SMD	145133	R75	RES SMD0805 150K 1/8W 1%	145037
R13	RES SMD0805 3.92K 1/8W 1%	145027	R76	RES TF 47.5K 1% 0.125W SMD0805	145132
R14	RES TF 1K 1% 0.1W SMD0805	145117	R77	RES SMD0805 150K 1/8W 1%	145037
R15	RES TF 20.0K 0.1% 0.1W SMD0805	145072	R78	RES SMD0805 475 1/8W 1%	145020
R17	RES SMD0805 22.1K 1/8W 1%	145012	R79	RES SMD0805 475 1/8W 1%	145020
R18	RES TF 100K 1% 0.1W SMD0805	145062	R80	RES TF 1.20K 1% 0.1W SMD0805	145066
R19	RES SMD0805 33.2K 1/8W 1%	145033	R81	RES TF 1.20K 1% 0.1W SMD0805	145066
R20	RES TF 47.5K 1% 0.125W SMD0805	145132	R82	RES SMD0805 4.75K 1/8W 1%	145008

## PARTS LIST (Cont'd.)

## ② MAIN PCB 752035 (Cont'd.)

Ref. No.	Description	Part No.
R83	RES SMD0805 4.75K 1/8W 1%	145008
R84	RES SMD0805 22.1K 1/8W 1%	145012
R86	RES SMD0805 68.1K 1/8W 1%	145035
R90	RES MF 4.75K 1% 1/4W	144520
RT1	THERMISTOR 2.5 15A	144231
RT2	THERMISTOR 2.5 15A	144231
T1	TRANSFORMER CURRENT	159353
T2	TRANSFORMER BACKUP	159431
U1	IC SINGLE 2 INPUT AND GATE SMD	133502
U2	IC SINGLE NAND SCHMITT SMD	133724
U3	IC SINGLE 2 INPUT AND GATE SMD	133502
U4	IC SINGLE NAND SCHMITT SMD	133724
U5	IC SINGLE NAND SCHMITT SMD	133724
U6	IC PROGRAMMABLE TIMER SMD	133813
U7	IC SINGLE 2 INPUT AND GATE SMD	133502
U8	IC SINGLE 2 INPUT AND GATE SMD	133502
U9	IC SINGLE 2 INPUT AND GATE SMD	133502
U10	IC SINGLE NAND SCHMITT SMD	133724
U11	IC SINGLE 2 INPUT AND GATE SMD	133502
U12	IC SINGLE NAND SCHMITT SMD	133724
U13	IC SINGLE NAND SCHMITT SMD	133724
U14	IC SINGLE 2-INPUT NOR GATE SMD	133500
U15	IC SINGLE 2-INPUT OR GATE SMD	133516
U16	IC SINGLE NAND SCHMITT SMD	133724
U17	IC SINGLE NAND SCHMITT SMD	133724
U18	IC SINGLE NAND SCHMITT SMD	133724
U19	IC SINGLE NAND SCHMITT SMD	133724
U20	IC SINGLE NAND SCHMITT SMD	133724
U21	IC SINGLE NAND SCHMITT SMD	133724
U22	IC OP AMP 33178 SMD	133720
U23	IC OP AMP 33178 SMD	133720
U24	IC OP AMP 33178 SMD	133720
U25	IC SINGLE NAND SCHMITT SMD	133724
U26	IC SINGLE NAND SCHMITT SMD	133724
U27	IC REG 1.2A LO-DROP ENABLE SMD	133717
U28	IC REG POS ADJ 1.5A SMD	133822
U29	IC REG NEG ADJ 1.5A SMD	133821
U30	IC OP AMP 33178 SMD	133720

## ③ RECTIFIER PCB 752040

C1	CAP POLYPROP 0.22UF 400V 20%	064438
C2	CAP POLYPROP 0.22UF 400V 20%	064438
D1	RECTIFIER BRIDGE PCB 35A 600V	070187
D2	RECTIFIER BRIDGE PCB 35A 600V	070187
J1	BLADE FASTON W/FEET	117708
J2	BLADE FASTON W/FEET	117708
J3	BLADE FASTON W/FEET	117708
J4	BLADE FASTON W/FEET	117708
J5	BLADE FASTON W/FEET	117708
J6	BLADE FASTON W/FEET	117708
PCB1	PC BD RECTIFIER	130392

## ④ CAPACITOR PCB 752039

C1	CAP ELECT 27000UF 100V	066596
C2	CAP ELECT 27000UF 100V	066596
C3	CAP ELECT 27000UF 100V	066596
C4	CAP ELECT 27000UF 100V	066596
C5	CAP ELECT 27000UF 100V	066596
C6	CAP ELECT 27000UF 100V	066596

Ref. No.	Description	Part No.
J1	CONN HEADER 2 POS 3.96MM	118147
J2	CONN HEADER 2 POS 3.96MM	118147
J3	BLADE FASTON W/FEET	117708
J4	BLADE FASTON W/FEET	117708
J5	BLADE FASTON W/FEET	117708
J6	BLADE FASTON W/FEET	117708
J7	BLADE FASTON W/FEET	117708
J8	CONN HEADER 2 POS 3.96MM	118147
J9	CONN HEADER 2 POS 3.96MM	118147
PCB1	PC BD CAPACITOR	130391

## ⑤ INPUT PCB 752034

C1	CAP ELECT 10UF 50V SMD	066602
C2	CAP ELECT 10UF 50V SMD	066602
C3	CAP 100PF 200V 5% SMD0805	061390
C4	CAP 100PF 200V 5% SMD0805	061390
C5	CAP 100PF 200V 5% SMD0805	061390
C6	CAP 100PF 200V 5% SMD0805	061390
C7	CAP 47PF 200V 10% NPO SMD0805	061368
C8	CAP MONO .1UF 50V +/-20% X7R SMD	061365
C9	CAP MONO .1UF 50V +/-20% X7R SMD	061365
C10	CAP ELECT 10UF 50V SMD	066602
C12	CAP .033uF PPS 50V 2% SMD1210	064474
D1	DIODE ESD SUPPRESSOR SMD	070198
D2	DIODE ESD SUPPRESSOR SMD	070198
D3	DIODE SMALL SIGNAL 4148 SMD	070199
D4	DIODE ESD SUPPRESSOR SMD	070198
D5	DIODE ESD SUPPRESSOR SMD	070198
D6	DIODE ESD SUPPRESSOR SMD	070198
GP1	TERMINAL PC MOUNT 4-40	118115
J1	RECEPTACLE XLR FEMALE	117685
J2	RECEPTACLE XLR MALE	117686
J3	JACK DUAL RCA	118020
J4	CONN 12 PIN FFC RA SMD	117990
J5	CONN 12 PIN FFC RA SMD	117990
J6	JACK HEADPHONE DUAL BLACK 1/8"	117825
J7	JACK HEADPHONE STEREO 1/8IN	117945
J8	CONNECTOR 2MM 5 PIN RA	118032
J9	CONNECTOR 2MM 5 PIN RA	118032
J10	HEADER SHROUDED 10 PIN 2MM	117973
K1	RELAY REED SPST-NO 5V 1.2A	087078
K2	RELAY REED SPST-NO 5V 1.2A	087078
PCB1	PC BD INPUT	130386
Q1	TRANSISTOR NCH MMBFJ108 SMD	132354
R1	RES SMD0805 22.1 K 1/8W 1%	145012
R2	RES SMD0805 22.1 K 1/8W 1%	145012
R3	RES TF 1K 1% 0.1W SMD0805	145117
R4	RES TF 1K 1% 0.1W SMD0805	145117
R5	RES TF 1K 1% 0.1W SMD0805	145117
R6	RES TF 1K 1% 0.1W SMD0805	145117
R7	RES SMD0805 681 1/8W 1%	145002
R8	RES TF 2.00K 1% 0.1W SMD0805	145115
R9	RES SMD0805 2.21M 1/8W 1%	145043
R10	RES TF 2.00K 1% 0.1W SMD0805	145115
R11	RES TF 22.1 .5% .1W SMD	145133
R12	RES TF 22.1 .5% .1W SMD	145133
R13	RES TF 100 1% 0.1W SMD0805	145060
R14	RES TF 10 1% 0.1W SMD0805	145063
R15	RES TF 10 1% 0.1W SMD0805	145063

# PARTS LIST (Cont'd.)

## ⑤ INPUT PCB 752034 (Cont'd.)

Ref. No.	Description	Part No.
R16	RES TF 1.96K 1% 0.1W SMD0805	145071
R17	RES TF 1.96K 1% 0.1W SMD0805	145071
S1	SWITCH SLIDE DPDT	148082
S2	SWITCH SLIDE DPDT	148082
U1	IC DUAL OP AMP 5532 SMD	133718
U2	IC OP AMP DIFFERENTIAL SMD	133772

## ⑥ TERMINAL PCB 752038

C1	CAP POLYPROP 0.15UF 10% 275V	064464
C2	CAP POLYPROP 0.15UF 10% 275V	064464
C3	CAP POLYPROP 0.15UF 10% 275V	064464
C4	CAP POLYPROP 0.15UF 10% 275V	064464
J1	BLADE FASTON W/FEET	117708
J2	BLADE FASTON W/FEET	117708
J3	BLADE FASTON W/FEET	117708
J4	BLADE FASTON W/FEET	117708
J5	BLADE FASTON W/FEET	117708
J6	BLADE FASTON W/FEET	117708
J7	BLADE FASTON W/FEET	117708
J8	BLADE FASTON W/FEET	117708
J9	CONNECTOR 2MM 3 PIN RA	118100
J10	CONNECTOR 2MM 3 PIN RA	118100
PCB1	PC BD TERMINAL	130390
R1	RES WW 2 OHM 5% 10W	139257
R2	RES WW 2 OHM 5% 10W	139257
R3	RES WW 2 OHM 5% 10W	139257
R4	RES WW 2 OHM 5% 10W	139257

## ⑦ HEATSINK PCB 752036

C1	CAP ELECT 10UF 50V	066445
C2	CAP ELECT 10UF 50V	066445
C3	CAP MONO .1uF 50V +/-20% X7R SMD	061365
C4	CAP NPO 1000PF 100V 5% SMD0805	061391
C5	CAP MPF 0.01UF 5% 250V	064472
C6	CAP MONO .1uF 50V +/-20% X7R SMD	061365
C7	CAP ELECT 470UF 16V	066508
C8	CAP ELECT 10UF 50V	066445
C9	CAP .47UF 50V 20% X7R SMD0805	061373
C10	CAP ELECT 47UF 35V	066446
C11	CAP MONO NPO 1PF 50V SMD0805	061393
C12	CAP NPO 1000PF 100V 5% SMD0805	061391
C13	CAP NPO 1000PF 100V 5% SMD0805	061391
C14	CAP ELECT 10UF 100VDC	066462
C15	CAP ELECT 10UF 100VDC	066462
C16	CAP 100PF 200V 5% SMD0805	061390
C17	CAP 100PF 200V 5% SMD0805	061390
C18	CAP MPF 0.47UF 5% 100VDC	064442
C19	CAP MPF 0.47UF 5% 100VDC	064442
C20	CAP ELECT 22UF 100V	066574
C21	CAP ELECT 22UF 100V	066574
C22	CAP .01UF 50V 20%X7R SMD0805	061372
C23	CAP .01UF 50V 20%X7R SMD0805	061372
C24	CAP MONO .1uF 50V +/-20% X7R SMD	061365
C25	CAP 100PF 200V 5% SMD0805	061390
C26	CAP 100PF 200V 5% SMD0805	061390
C27	CAP .47UF 50V 20% X7R SMD0805	061373
C28	CAP MPF 0.47UF 5% 100VDC	064442
C29	CAP MPF 0.47UF 5% 100VDC	064442
D1	DIODE SMALL SIGNAL 4148 SMD	070199

Ref. No.	Description	Part No.
D2	DIODE SMALL SIGNAL 4148 SMD	070199
D3	DIODE SMALL SIGNAL 4148 SMD	070199
D4	DIODE SMALL SIGNAL 4148 SMD	070199
D5	DIODE SMALL SIGNAL 4148 SMD	070199
D6	DIODE SMALL SIGNAL 4148 SMD	070199
D7	DIODE SMALL SIGNAL 4148 SMD	070199
D8	DIODE SMALL SIGNAL 4148 SMD	070199
D9	DIODE SMALL SIGNAL 4148 SMD	070199
J1	HEADER 5 PIN SHROUDED	117916
J2	CONNECTOR 3PIN HEADER 2MM	118013
J3	HEADER 7 PIN SHROUDED	117910
J4	CONN 2 PIN RA 3.96MM	118111
J5	CONNECTOR TAB .250RA	118028
J6	HEADER 5 PIN SHROUDED	117916
J7	CONN 2 POS RIGHT ANGLE	117274
PCB1	PC BD HEATSINK	130388
Q1	TRANSISTOR PNP A55 SMD	132334
Q2	TRANSISTOR PNP A55 SMD	132334
Q3	TRANSISTOR NPN A05 SMD	132333
Q4	TRANSISTOR NCH MMBFJ108 SMD	132354
Q5	TRANSISTOR NCH MMBFJ108 SMD	132354
Q6	TRANSISTOR PNP A55 SMD	132334
Q7	TRANSISTOR NPN 2SC3324 SMD	132345
Q8	TRANSISTOR PNP 2SA1312 SMD	132344
Q9	TRANSISTOR NPN A05 SMD	132333
Q10	TRANSISTOR NPN 2SC3324 SMD	132345
Q11	TRANSISTOR PNP 2SA1312 SMD	132344
Q12	TRANSISTOR NPN 2SC3324 SMD	132345
Q13	TRANSISTOR PNP 2SA1312 SMD	132344
Q14	TRANSISTOR NPN A05 SMD	132333
Q15	TRANSISTOR PNP A55 SMD	132334
Q16	TRANSISTOR NPN 300V BF420	132351
Q17	TRANSISTOR PNP 300V BF421	132352
Q18	TRANSISTOR PNP 300V BF421	132352
Q19	TRANSISTOR NPN 300V BF420	132351
Q20	TRANSISTOR PNP A55 SMD	132334
Q21	TRANSISTOR NPN A05 SMD	132333
Q22	TRANSISTOR NPN A05 SMD	132333
Q23	TRANSISTOR PNP A55 SMD	132334
Q24	TRANSISTOR NPN A05 SMD	132333
Q25	TRANSISTOR NPN 300V BF420	132351
Q26	TRANSISTOR PNP 300V BF421	132352
R55	POT 1/4" HORIZ 500 OHM .5W SMD	134517
R1	RES FP 1.1 OHM 5% 1/4W	137002
R2	RES MF 100 OHM 1% 1/4W	144568
R3	RES MF 100 OHM 1% 1/4W	144568
R4	RES FP 1.1 OHM 5% 1/4W	137002
R5	RES MF 221 OHM 1% 1/4W	144559
R6	RES SMD0805 22.1K 1/8W 1%	145012
R7	RES MET OX 470HM 5% 1/2W	137102
R8	RES MF 5.36K .5% 1/4W	144615
R9	RES MF 267 OHM 1% 1/4W	144560
R10	RES MF 6.49K .5% 1/4W	144617
R11	RES FP 10 OHM 5% 1/4W	137105
R12	RES FP 10 OHM 5% 1/4W	137105
R13	RES SMD0805 33.2K 1/8W 1%	145033
R14	RES SMD0805 475 1/8W 1%	145020
R15	RES TF 2.21K 1% 0.1W SMD0805	145126
R16	RES SMD0805 475 1/8W 1%	145020

## PARTS LIST (Cont'd.)

## ⑦ HEATSINK PCB 752036 (Cont'd.)

Ref. No.	Description	Part No.
R17	RES TF 2.21K 1% 0.1W SMD0805	145126
R18	RES TF 1K 1% 0.1W SMD0805	145117
R19	RES SMD 0805 332K 1/8W 1%	145039
R20	RES SMD0805 2.21M 1/8W 1%	145043
R21	RES SMD0805 2.21M 1/8W 1%	145043
R22	RES SMD 0805 332K 1/8W 1%	145039
R23	RES TF 47.5K 1% 0.125W SMD0805	145132
R24	RES TF 47.5K 1% 0.125W SMD0805	145132
R25	RES TF 1K 1% 0.1W SMD0805	145117
R26	RES MET OX 470HM 5% 1/2W	137102
R27	RES MET OX 470HM 5% 1/2W	137102
R28	RES SMD0805 3.32K 1/8W 1%	145026
R29	RES TF 324 1% 0.1W SMD0805	145079
R30	RES SMD0805 332 1/8W 1%	145006
R31	RES SMD0805 475 1/8W 1%	145020
R32	RES TF 324 1% 0.1W SMD0805	145079
R33	RES SMD0805 3.32K 1/8W 1%	145026
R34	RES TF 324 1% 0.1W SMD0805	145079
R35	RES TF 324 1% 0.1W SMD0805	145079
R36	RES SMD 0805 332K 1/8W 1%	145039
R37	RES SMD 0805 332K 1/8W 1%	145039
R38	RES SMD0805 1.5K 1/8W 1%	145022
R39	RES SMD0805 1.5K 1/8W 1%	145022
R40	RES TF 324 1% 0.1W SMD0805	145079
R41	RES TF 324 1% 0.1W SMD0805	145079
R42	RES MO 1 OHM 1W 5%	144752
R43	RES MO 1 OHM 1W 5%	144752
R46	RES MF 806 OHM 1% 1/4W	144512
R47	RES MF 806 OHM 1% 1/4W	144512
R48	RES MF 47.5K 1% 1/4W	144526
R49	RES MF 47.5K 1% 1/4W	144526
R50	RES MET OX 680 OHM 5% 1/2W	137099
R51	RES MET OX 430 OHM 5% 1/2W	137101
R52	RES MET OX 1.8K 5% 1/2W	137100
R53	RES MET OX 1.8K 5% 1/2W	137100
R54	RES MET OX 680 OHM 5% 1/2W	137099
R56	RES MET OX 1.8K 5% 1/2W	137100
R57	RES MET OX 470HM 5% 1/2W	137102
R58	RES WW .5 OHM 5% 5W	139255
R59	RES WW .5 OHM 5% 5W	139255
R60	RES WW .5 OHM 5% 5W	139255
R61	RES WW .5 OHM 5% 5W	139255
R62	RES WW .5 OHM 5% 5W	139255
R63	RES WW .5 OHM 5% 5W	139255
R64	RES WW .5 OHM 5% 5W	139255
R65	RES WW .5 OHM 5% 5W	139255
R66	RES WW .5 OHM 5% 5W	139255
R67	RES WW .5 OHM 5% 5W	139255
R68	RES WW .5 OHM 5% 5W	139255
R69	RES WW .5 OHM 5% 5W	139255
R70	RES MF 1.5K 1% 1/4W	144539
R71	RES MF 1.5K 1% 1/4W	144539
R72	RES SMD0805 475 1/8W 1%	145020
R73	RES SMD0805 332 1/8W 1%	145006
R74	RES TF 10 1% 0.1W SMD0805	145063
RT1	THERMISTOR 75C SMD	144753
U1	IC DUAL OP AMP 5532 SMD	133718

## ⑧ HEATSINK SLAVE PCB 752037

Ref. No.	Description	Part No.
C1	CAP MPF 0.47UF 5% 100VDC	064442
C2	CAP MPF 0.47UF 5% 100VDC	064442
C3	CAP MPF 0.47UF 5% 100VDC	064442
C4	CAP MPF 0.47UF 5% 100VDC	064442
J4	CONN 2 PIN RA 3.96MM	118111
J5	CONNECTOR 2MM 5 PIN RA	118032
J6	CONNECTOR TAB .250 RA	118028
PCB1	PC BD HEATSINK SLAVE	130389
R1	RES MO 1 OHM 1W 5%	144752
R2	RES MO 1 OHM 1W 5%	144752
R57	RES MET OX 47 OHM 5% 1/2W	137102
R58	RES WW .5OHM 5% 5W	139255
R59	RES WW .5OHM 5% 5W	139255
R60	RES WW .5OHM 5% 5W	139255
R61	RES WW .5OHM 5% 5W	139255
R62	RES WW .5OHM 5% 5W	139255
R63	RES WW .5OHM 5% 5W	139255
R64	RES WW .5OHM 5% 5W	139255
R65	RES WW .5OHM 5% 5W	139255
R66	RES WW .5OHM 5% 5W	139255
R67	RES WW .5OHM 5% 5W	139255
R68	RES WW .5OHM 5% 5W	139255
R69	RES WW .5OHM 5% 5W	139255
RT1	THERMISTOR 75C SMD	144753

## ⑨ DISPLAY PCB 752041

Ref. No.	Description	Part No.
DS1	LED RGB SMD	058218
DS2	LED RGB SMD	058218
DS3	LED RGB SMD	058218
DS4	LED RGB SMD	058218
DS5	LED RGB SMD	058218
DS6	LED RGB SMD	058218
DS7	LED RGB SMD	058218
DS8	LED RGB SMD	058218
DS9	LED RGB SMD	058218
DS10	LED RGB SMD	058218
DS11	LED RGB SMD	058218
DS12	LED RGB SMD	058218
DS13	LED RGB SMD	058218
DS14	LED RGB SMD	058218
DS15	LED RGB SMD	058218
DS16	LED RGB SMD	058218
DS17	LED RGB SMD	058218
DS18	LED RGB SMD	058218
DS19	LED RGB SMD	058218
DS20	LED RGB SMD	058218
DS21	LED RGB SMD	058218
DS22	LED RGB SMD	058218
DS23	LED RGB SMD	058218
DS24	LED RGB SMD	058218
DS25	LED RGB SMD	058218
DS26	LED RGB SMD	058218
DS27	LED RGB SMD	058218
DS28	LED RGB SMD	058218
DS29	LED RGB SMD	058218
DS30	LED RGB SMD	058218
DS31	LED RGB SMD	058218
DS32	LED RGB SMD	058218

# PARTS LIST (Cont'd.)

## 9 DISPLAY PCB 752041 (Cont'd.)

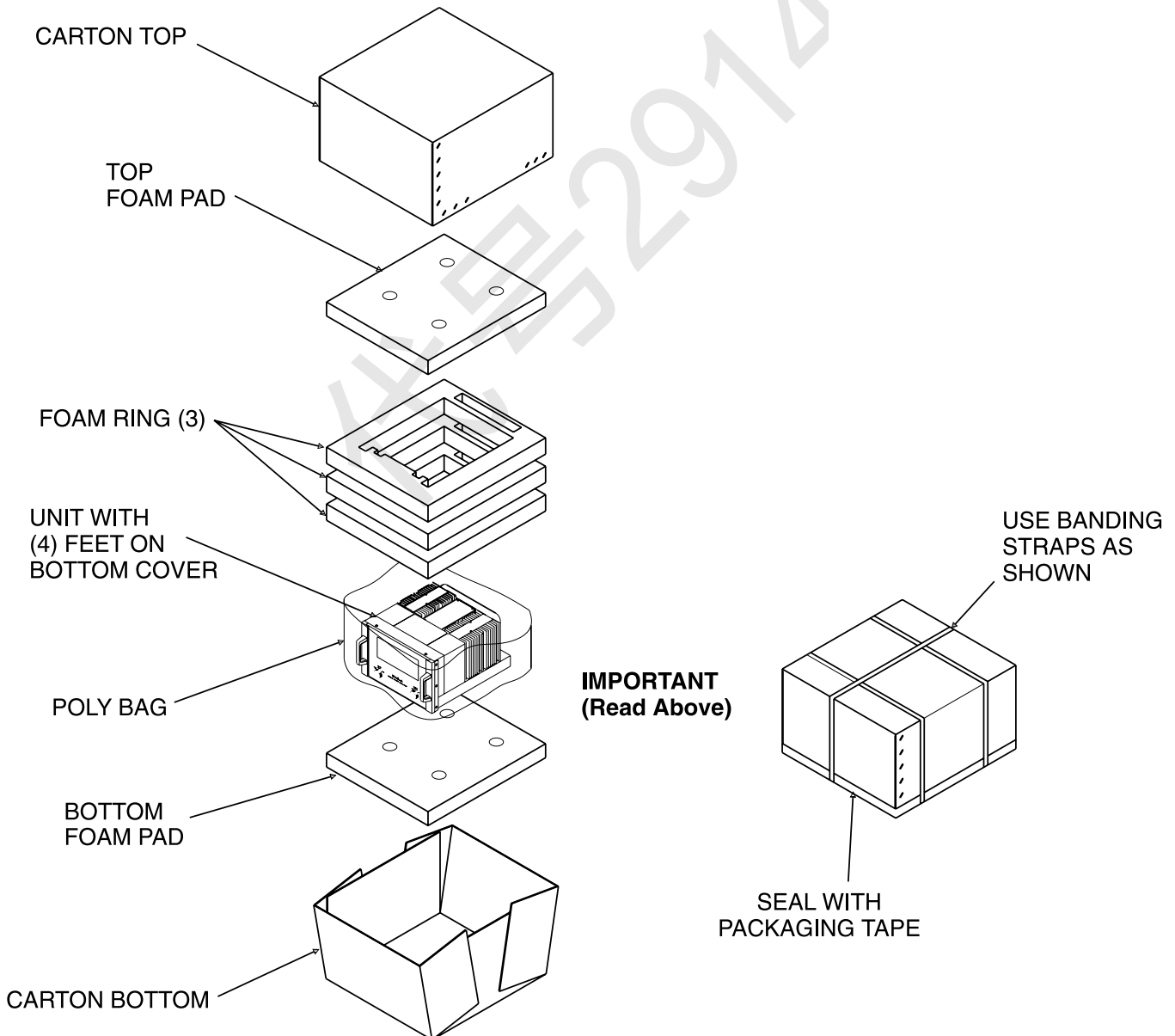
Ref. No.	Description	Part No.	Ref. No.	Description	Part No.
DS33	LED RGB SMD	058218	R15	RES TF 2.37K 1% 0.1W SMD0805	145074
DS34	LED RGB SMD	058218	R16	RES TF 10.5K 1% 0.1W SMD0805	145064
DS35	LED RGB SMD	058218	R17	RES TF 2.37K 1% 0.1W SMD0805	145074
DS36	LED RGB SMD	058218	R18	RES TF 10.5K 1% 0.1W SMD0805	145064
DS37	LED RGB SMD	058218	R19	RES TF 2.37K 1% 0.1W SMD0805	145074
DS38	LED RGB SMD	058218	R20	RES TF 10.5K 1% 0.1W SMD0805	145064
DS39	LED RGB SMD	058218	R21	RES TF 2.37K 1% 0.1W SMD0805	145074
DS40	LED RGB SMD	058218	R22	POT 1/4" HORIZ 1K OHM 1/2W SMD	134518
DS41	LED ORN REV MOUNT SMD	058210	R23	POT 1/4" HORIZ 500 OHM .5W SMD	134517
DS42	LED GRN REV MOUNT SMD	058212	R24	RES TF 499 1% 0.1W SMD0805	145084
DS43	LED GRN REV MOUNT SMD	058212	R25	RES TF 499 1% 0.1W SMD0805	145084
DS44	LED RED REV MOUNT SMD	058217	R26	RES TF 10.5K 1% 0.1W SMD0805	145064
DS45	LED GRN REV MOUNT SMD	058212	R27	RES TF 2.37K 1% 0.1W SMD0805	145074
DS46	LED GRN REV MOUNT SMD	058212	R28	RES TF 10.5K 1% 0.1W SMD0805	145064
DS47	LED GRN REV MOUNT SMD	058212	R29	RES TF 2.37K 1% 0.1W SMD0805	145074
DS48	LED GRN REV MOUNT SMD	058212	R30	RES TF 10.5K 1% 0.1W SMD0805	145064
DS49	LED GRN REV MOUNT SMD	058212	R31	RES TF 2.37K 1% 0.1W SMD0805	145074
DS50	LED GRN REV MOUNT SMD	058212	R32	RES TF 10.5K 1% 0.1W SMD0805	145064
DS51	LED GREEN 5MM 30 DEG	058190	R33	RES TF 2.37K 1% 0.1W SMD0805	145074
J1	CONN 18 PIN FFC RA SMD	117997	R34	RES TF 10.5K 1% 0.1W SMD0805	145064
J3	CONN 12 PIN FFC RA SMD	117990	R35	RES TF 2.37K 1% 0.1W SMD0805	145074
J4	CONN 12 PIN FFC RA SMD	117990	R36	RES TF 10.5K 1% 0.1W SMD0805	145064
J5	CONN 12 PIN FFC RA SMD	117990	R37	RES TF 2.37K 1% 0.1W SMD0805	145074
J6	CONN 12 PIN FFC SMD	118001	R38	RES TF 10.5K 1% 0.1W SMD0805	145064
J7	CONN 12 PIN FFC SMD	118001	R39	RES TF 2.37K 1% 0.1W SMD0805	145074
J8	CONN 12 PIN FFC SMD	118001	R40	RES TF 10.5K 1% 0.1W SMD0805	145064
MP1	SPACER LED RA	112108	R41	RES TF 2.37K 1% 0.1W SMD0805	145074
PCB1	PC DB DISPLAY	130393	R42	RES TF 10.5K 1% 0.1W SMD0805	145064
R1	POT 1/4" HORIZ 100K .5W SMD	134515	R43	RES TF 2.37K 1% 0.1W SMD0805	145074
R2	RES TF 10.5K 1% 0.1W SMD0805	145064	R44	RES TF 10.5K 1% 0.1W SMD0805	145064
R3	RES TF 2.37K 1% 0.1W SMD0805	145074	R45	RES TF 2.37K 1% 0.1W SMD0805	145074
R4	RES TF 10.5K 1% 0.1W SMD0805	145064	R47	RES SMD0805 6.81K 1/8W 1%	145029
R5	RES TF 2.37K 1% 0.1W SMD0805	145074	R48	RES SMD0805 6.81K 1/8W 1%	145029
R6	RES TF 10.5K 1% 0.1W SMD0805	145064	R49	RES SMD0805 6.81K 1/8W 1%	145029
R7	RES TF 2.37K 1% 0.1W SMD0805	145074	R50	RES SMD0805 6.81K 1/8W 1%	145029
R8	RES TF 10.5K 1% 0.1W SMD0805	145064	R51	RES SMD0805 681 1/8W 1%	145002
R9	RES TF 2.37K 1% 0.1W SMD0805	145074	R52	RES SMD0805 6.81K 1/8W 1%	145029
R10	RES TF 10.5K 1% 0.1W SMD0805	145064	R53	RES SMD0805 6.81K 1/8W 1%	145029
R11	RES TF 2.37K 1% 0.1W SMD0805	145074	R54	RES SMD0805 6.81K 1/8W 1%	145029
R12	RES TF 10.5K 1% 0.1W SMD0805	145064	R55	RES SMD0805 6.81K 1/8W 1%	145029
R13	RES TF 2.37K 1% 0.1W SMD0805	145074	R46	RES TF 1K 1% 0.1W SMD0805	145117
R14	RES TF 10.5K 1% 0.1W SMD0805	145064			

# REPACKING INSTRUCTIONS

In the event it is necessary to repack the equipment for shipment, the equipment must be packed exactly as shown below. It is very important that the four feet are attached to the bottom of the equipment. This will ensure the proper equipment location on the bottom foam pad. Failure to do this will result in shipping damage.

Use the original shipping carton and interior parts only if they are all in good serviceable condition. If a shipping carton or any of the interior part(s) are needed, please call or write Customer Service Department of McIntosh Laboratory. Please see the Part List for the correct part numbers.

Quantity	Part Number	Description
1	034105	Shipping carton top
1	034104	Shipping carton bottom
2	034439	Foam Pad (top and bottom)
3	034441	Foam Ring
4	400159	10-32 x 3/4 inch screw
4	218085	Feet



# MC1.25KW

## QUAD BALANCED POWER AMPLIFIER

SERIAL NO. AFW1001 And Above

代号2914



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