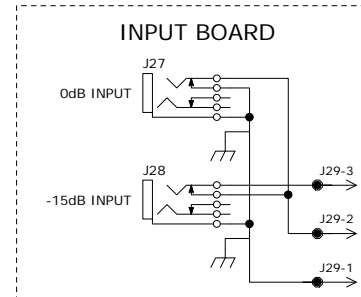
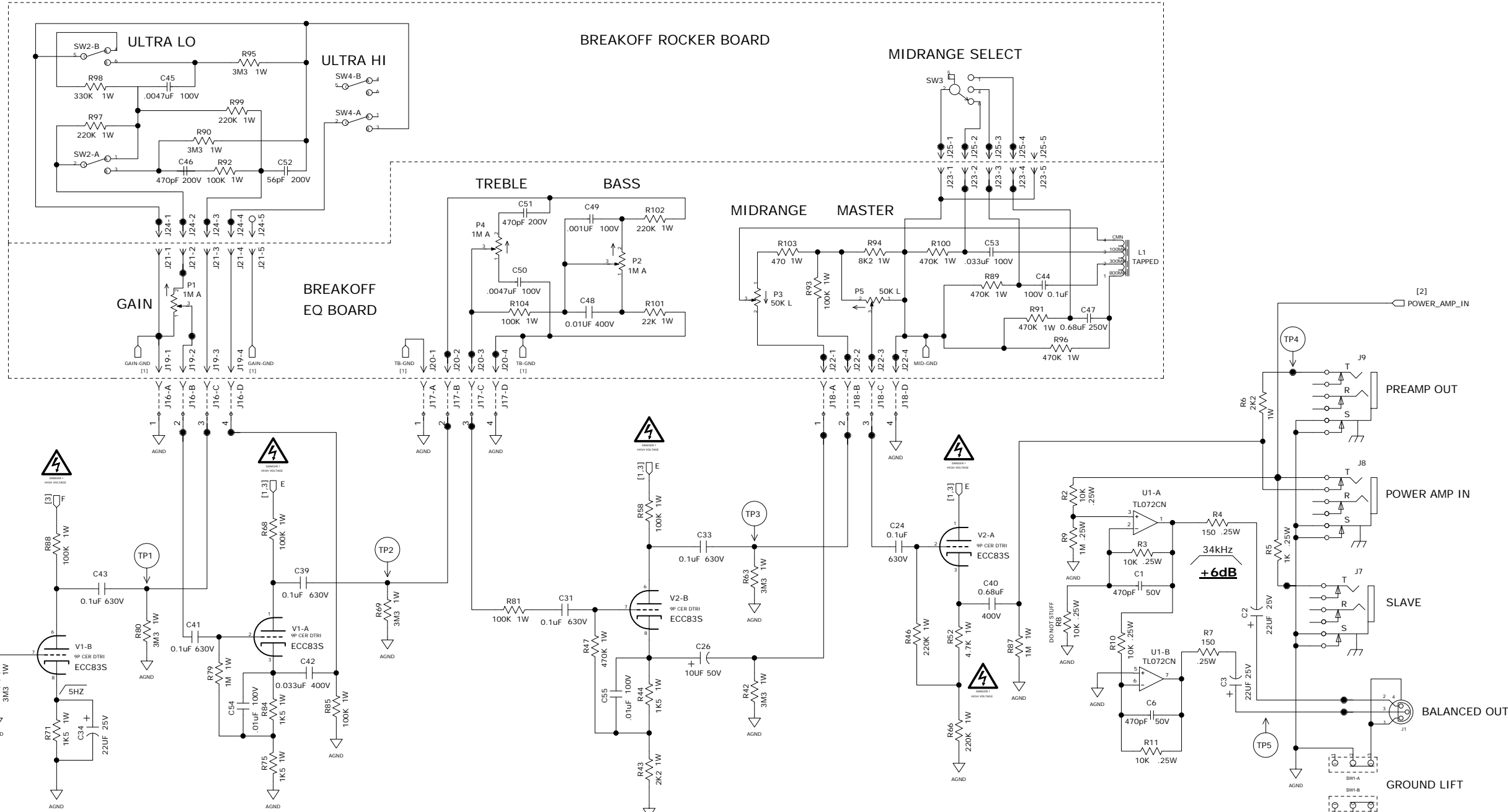


TEST POINT DATA			
TAKING THESE MEASUREMENTS IS DANGEROUS!!! QUALIFIED TECHNICIANS ONLY			
ALL MEASUREMENTS ARE IN REFERENCE TO CHASSIS GROUND			
WAVEFORM DATA		POWER SUPPLY DATA	
100mVrms 1kHz SINE WAVE, 0dB IN ALL CONTROLS AT CENTER ROCKER SWITCHES LEFT ALL MEASUREMENTS ARE VAC RMS		NO INPUT ALL CONTROLS AT CENTER ROCKER SWITCHES LEFT ALL MEASUREMENTS ARE VDC	
TP1	5.8	A	445
TP2	5.5	B	442
TP3	5.7	C	357
TP4	0.14	D	349
TP5	0.28	E	342
TP6	3.0	F	337
TP7	2.9	HEATER (+)	+3.1
TP8	2.9	HEATER (-)	-3.1
TP9	15.2	+15V	+15
TP10	15.2	-15V	-15
TP11	130	BIAS	-58 WITH R16 AT MINIMUM
TP12	130		
TP13	15.2		
TP14	10.5		
TP15	7.5		




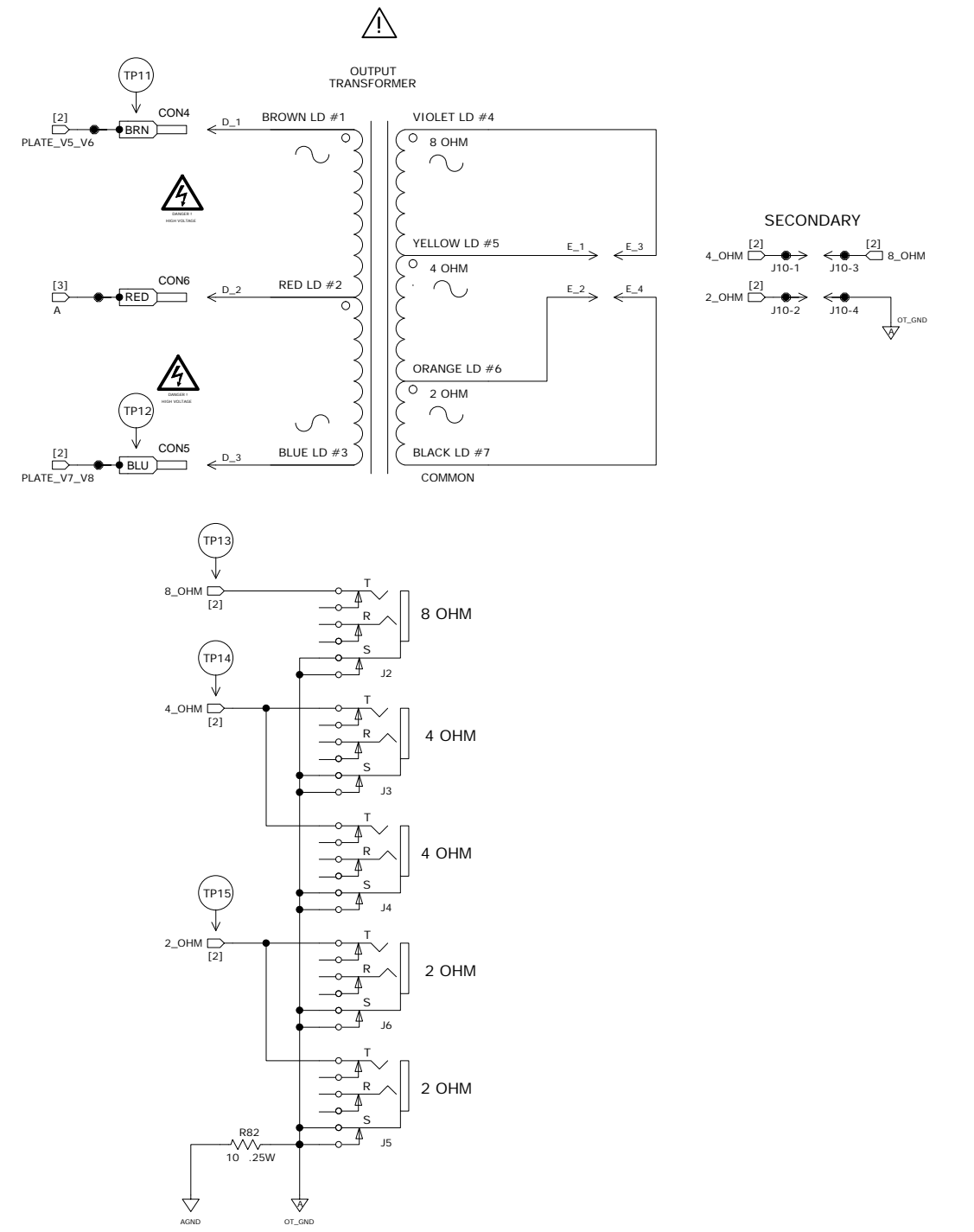
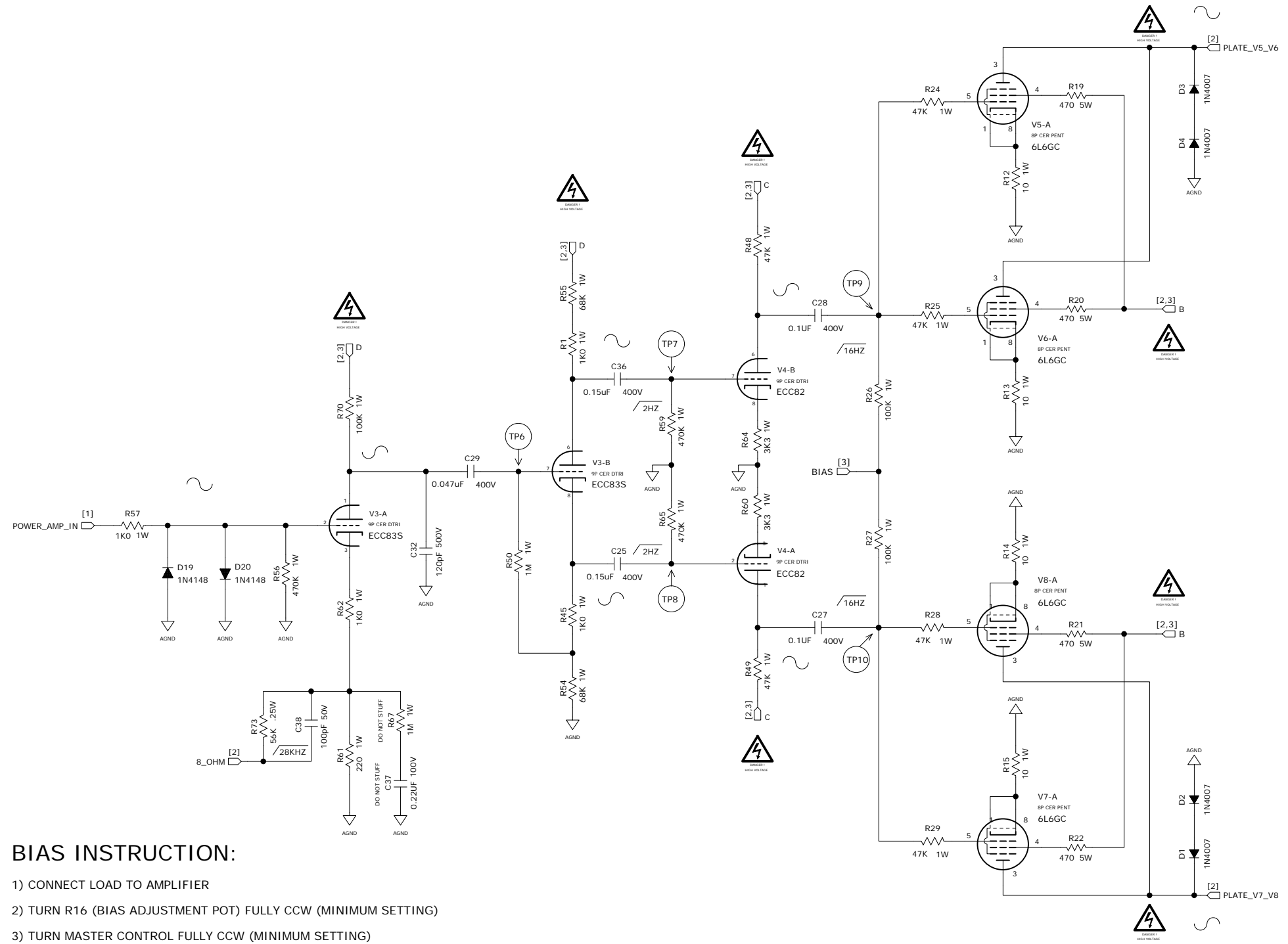
PCB1 2038055-01
PCB FAB V-4B MAIN

SCH1 2038054-XX
SCHEMATIC PCB ASSY V-4B MAIN

! COMPONENTS NOTED WITH THIS SYMBOL SHALL BE REPLACED ONLY BY THE COMPONENT SPECIFIED. THIS IS REQUIRED TO MAINTAIN PRODUCT SAFETY.

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APPROVALS	DATE	 LOUD Technologies Inc. 16220 WOOD-RED RD NE WOODINVILLE, WA 98072
DRAWN: Dawn Pfund	7/1/2013	
CHECKED:		V-4BR MAIN PREAMP
NP ENG:		
MATERIAL:		
MFG:		
MFG ENG:		SIZE: D SCALE: NONE DWG. NO.: 2038054-XX REV. B01
ISSUED:		DWG FILE: 2038054-XX-B01.sch SHEET 1 OF 3



BIAS INSTRUCTION:

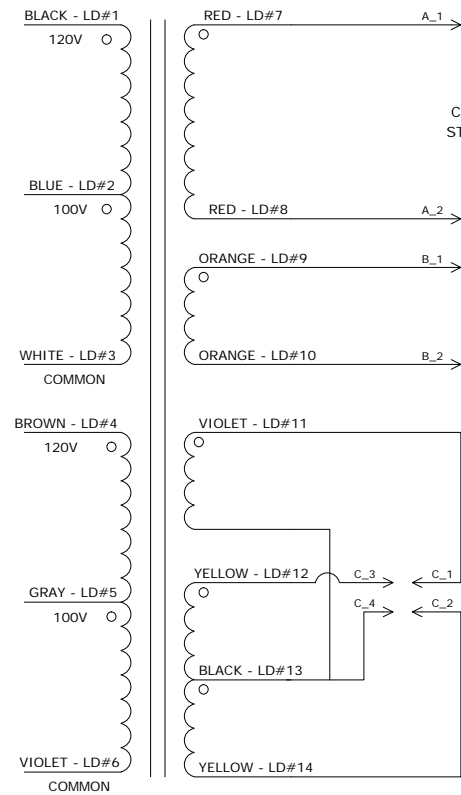
- 1) CONNECT LOAD TO AMPLIFIER
- 2) TURN R16 (BIAS ADJUSTMENT POT) FULLY CCW (MINIMUM SETTING)
- 3) TURN MASTER CONTROL FULLY CCW (MINIMUM SETTING)
- 4) TURN POWER SWITCH TO ON AND WAIT 2 MINUTES
- 5) TURN STANDBY SWITCH ON
- 6) ENSURE THERE IS NOTHING PLUGGED INTO INPUT CHANNELS
- 7) WAIT 10 MINUTES
- 8) MEASURE VDC ACROSS R12, THE CATHODE RESISTOR OF V5
- 9) ADJUST R16 UNTIL YOU MEASURE 450mVDC ACROSS R12
- 10) MEASURE VDC ACROSS R13 (V6). SHOULD FALL BETWEEN 400mVDC - 500mVDC
- 11) REPEAT STEP #10 FOR R14 (V8), THEN R15 (V7)
- 12) ALL MEASUREMENTS FOR V5, V6, V8, AND V7 SHOULD BE WITHIN 400mVDC -500mVDC
 - 12A) IF #12 IS TRUE, ENJOY 100W OF V-4B
 - 12B) IF #12 IS FALSE, THE TUBES ARE NOT PROPERLY MATCHED FOR YOUR PRECIOUS V-4B, SO GET NEW ONES

! COMPONENTS NOTED WITH THIS SYMBOL SHALL BE REPLACED ONLY BY THE COMPONENT SPECIFIED. THIS IS REQUIRED TO MAINTAIN PRODUCT SAFETY.

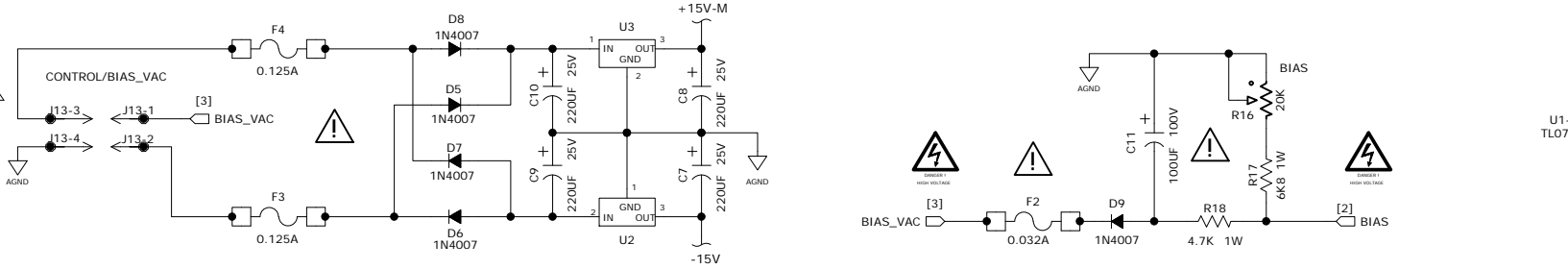
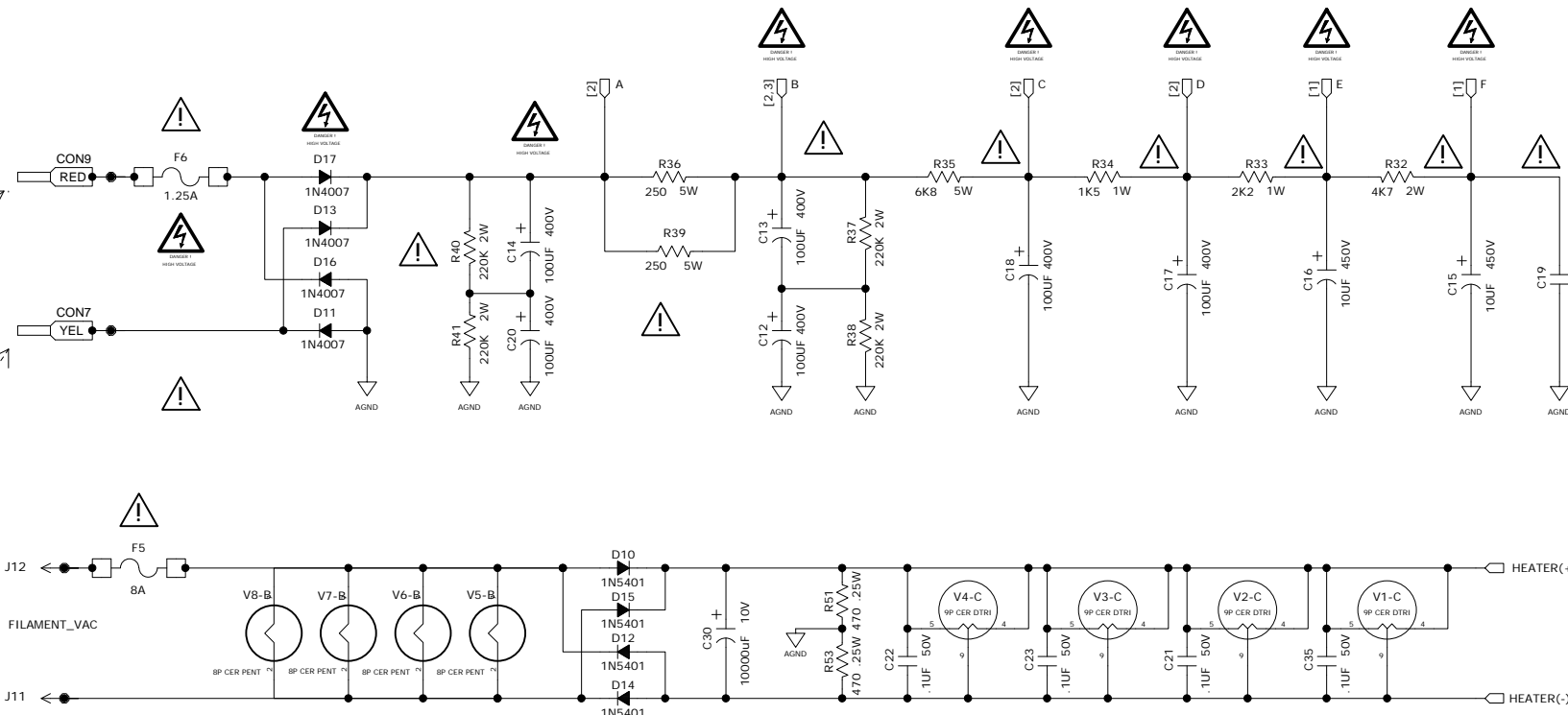
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APPROVALS	DATE	LOUD Technologies Inc. 16220 WOOD-RED RD NE WOODINVILLE, WA 98072			
DRAWN: Dawn Pfund	7/1/2013	V-4BR MAIN POWER_AMP			
CHECKED:					
NP ENG:					
MATERIAL:					
MFG:					
MFG ENG:		SIZE: D	SCALE: NONE	DWG. NO. 2038054-XX	REV. B01
ISSUED:		DWG FILE: 2038054-XX-B01.sch		SHEET 2 OF 3	

POWER TRANSFORMER 2037497-00

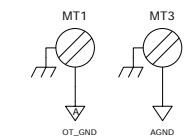
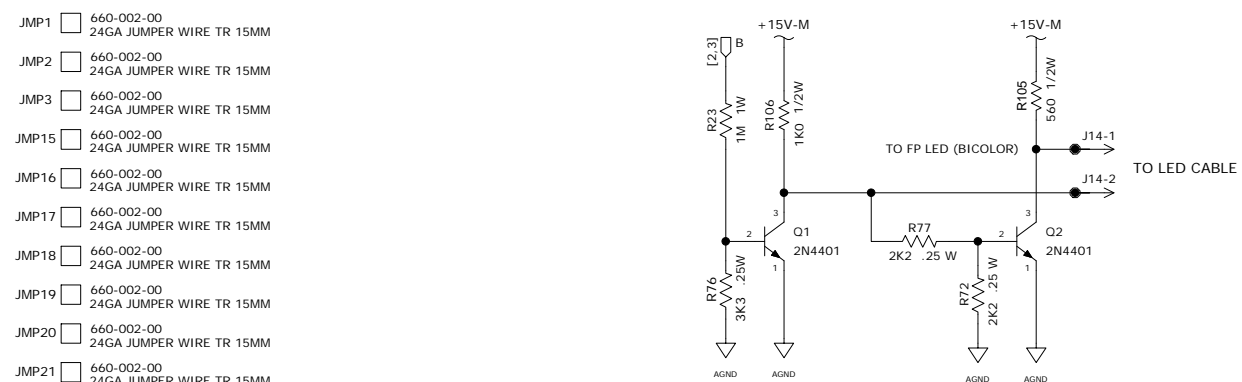


CONNECTION TO STANDBY SWITCH



- FC1 400-060-00 FUSE CLIP PCMT 5MM DIA
- FC2 400-060-00 FUSE CLIP PCMT 5MM DIA
- FC3 400-060-00 FUSE CLIP PCMT 5MM DIA
- FC4 400-060-00 FUSE CLIP PCMT 5MM DIA
- FC5 400-060-00 FUSE CLIP PCMT 5MM DIA
- FC6 400-060-00 FUSE CLIP PCMT 5MM DIA
- FC7 400-060-00 FUSE CLIP PCMT 5MM DIA
- FC8 400-060-00 FUSE CLIP PCMT 5MM DIA
- FC9 400-060-00 FUSE CLIP PCMT 5MM DIA
- FC10 400-060-00 FUSE CLIP PCMT 5MM DIA

- JMP4 660-002-00 24GA JUMPER WIRE TR 15MM
- JMP5 660-002-00 24GA JUMPER WIRE TR 15MM
- JMP6 660-002-00 24GA JUMPER WIRE TR 15MM
- JMP7 660-002-00 24GA JUMPER WIRE TR 15MM
- JMP8 660-002-00 24GA JUMPER WIRE TR 15MM
- JMP9 660-002-00 24GA JUMPER WIRE TR 15MM
- JMP10 660-002-00 24GA JUMPER WIRE TR 15MM
- JMP11 660-002-00 24GA JUMPER WIRE TR 15MM
- JMP12 660-002-00 24GA JUMPER WIRE TR 15MM
- JMP13 660-002-00 24GA JUMPER WIRE TR 15MM
- JMP14 660-002-00 24GA JUMPER WIRE TR 15MM
- RTV1 2034504 SILICONE RTV



ALL GROUNDS SHOULD TIE TO CHASSIS GROUND SEPARATELY VIA MOUNT ON MAIN BOARD

COMPONENTS NOTED WITH THIS SYMBOL SHALL BE REPLACED ONLY BY THE COMPONENT SPECIFIED. THIS IS REQUIRED TO MAINTAIN PRODUCT SAFETY.

APPROVALS	DATE	LOUD Technologies Inc.	
Dawn Pfund	7/1/2013	16220 WOOD-RED RD NE WOODINVILLE, WA 98072	
CHECKED:		V-4BR MAIN SUPPLY	
NP ENG:			
MATERIAL:		SIZE: D	SCALE: NONE
MFG:		DWG. NO. 2038054-XX	REV. B01
MFG ENG:		DWG FILE: 2038054-XX-B01.sch	SHEET 3 OF 3
ISSUED:			

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