

WARNING! - Please Read this Information Carefully:

The project described in these pages utilizes **POTENTIALLY FATAL HIGH VOLTAGES**. If you are in any way unfamiliar with high voltage circuits or are uncomfortable working around high voltages, **PLEASE DO NOT RISK YOUR LIFE BY BUILDING THEM**. Seek help from a competent technician before building any unfamiliar electronics circuit. While efforts are made to ensure accuracy of these circuits, no guarantee is provided, of any kind!

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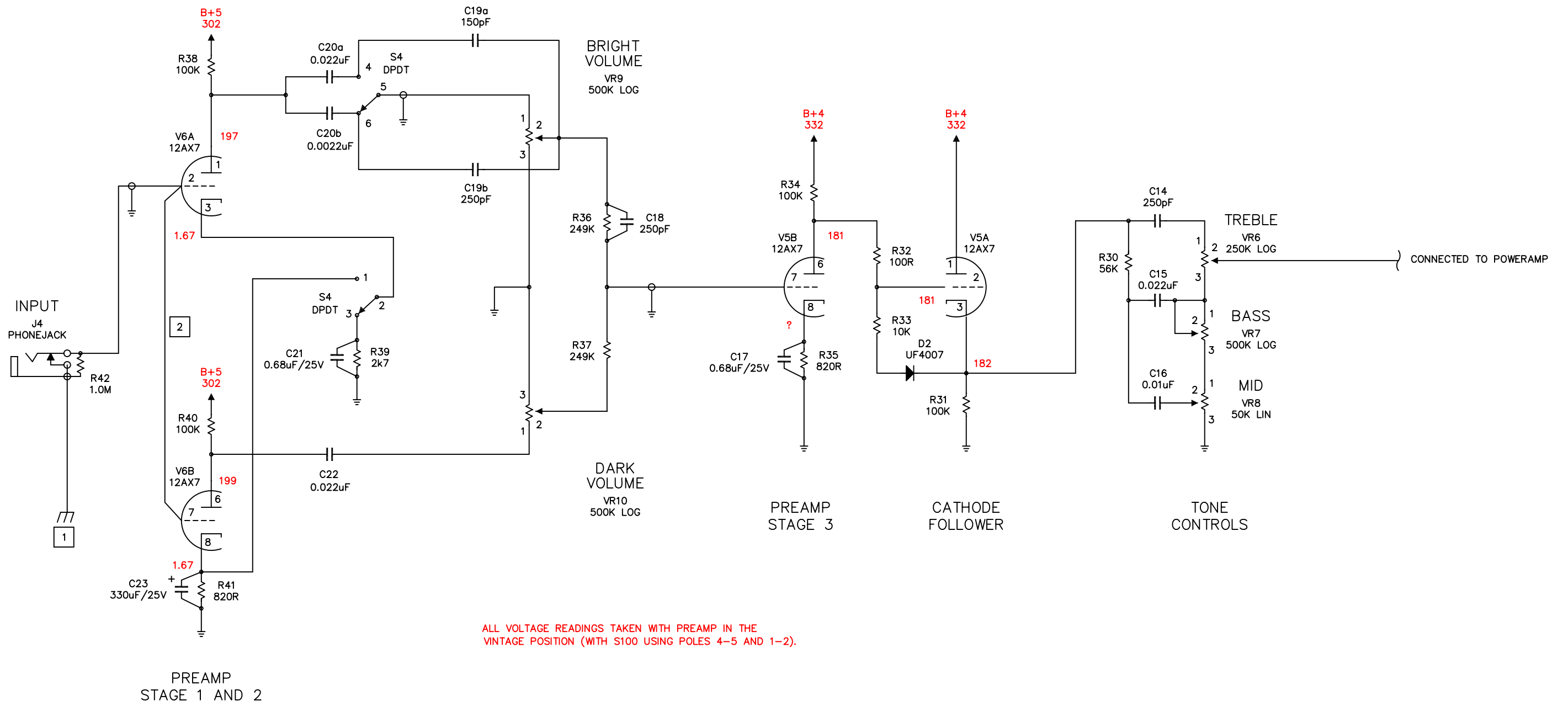
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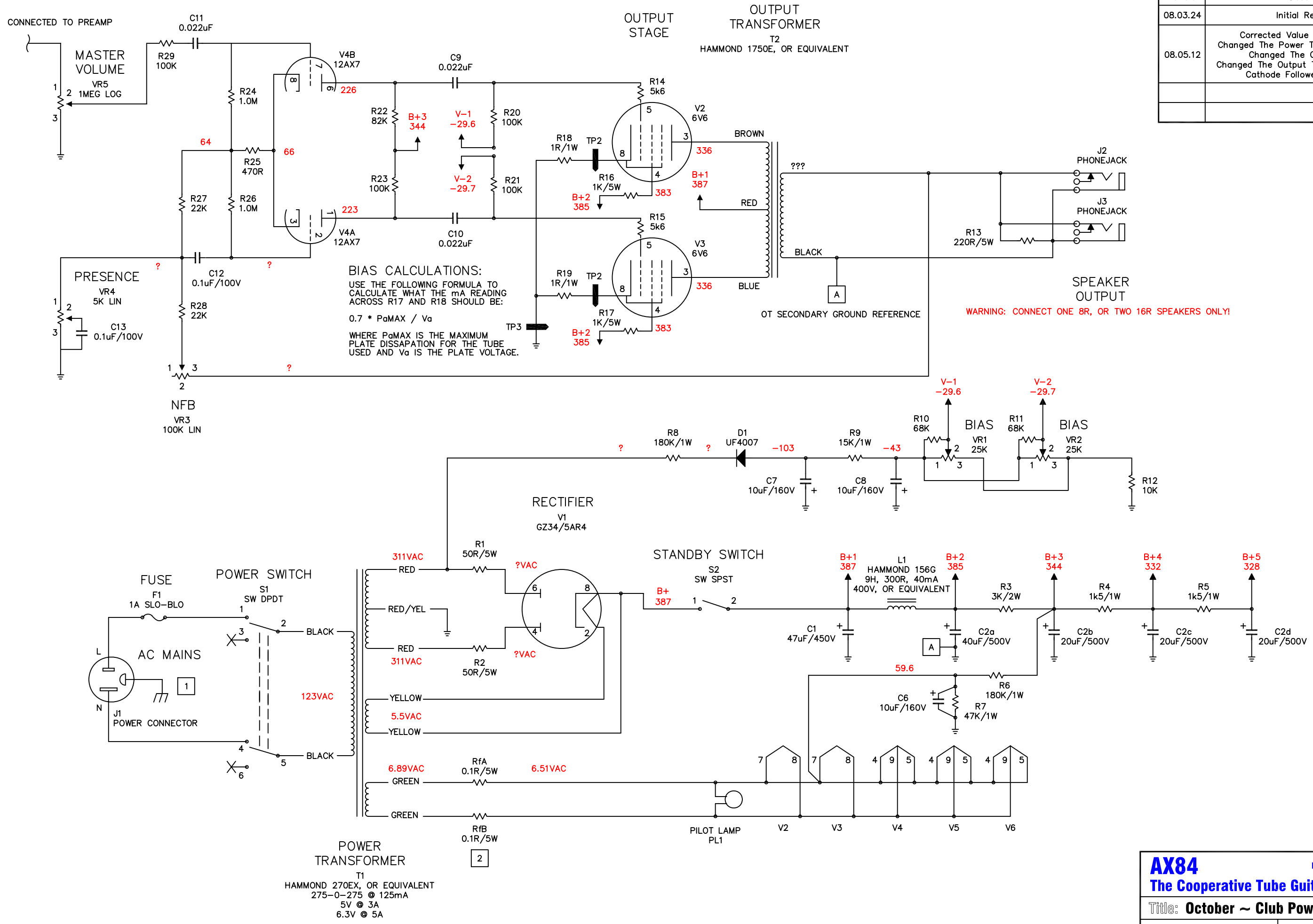
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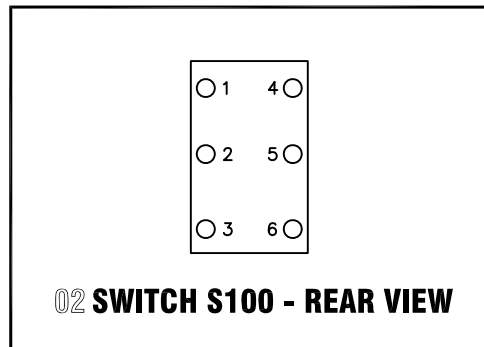
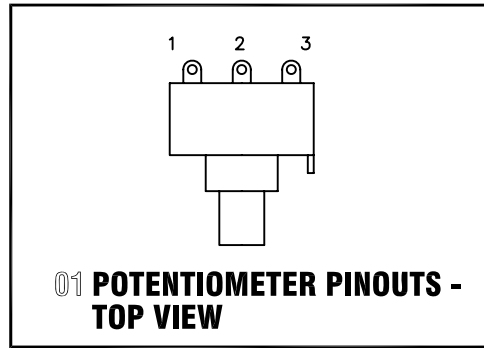
Revision	Description
08.03.24	Initial Re-Design
08.05.12	Corrected Value Of R16 And R17 Changed The Power Transformer To 270EX Changed The Choke To 156G Changed The Output Transformer To 1750E Cathode Follower Modifications




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GENERAL NOTES:

1. ALL RESISTORS 1/2W MINIMUM UNLESS OTHERWISE NOTED.
2. ALL COUPLING CAPACITORS 400V OR GREATER.
3. VOLTAGE READINGS ARE THOSE TAKEN WITH 6V6-S. THE USE OF OTHER OUTPUT TUBES WILL ALTER YOUR READINGS.
4. THE  SYMBOL REPRESENTS SHIELDED CABLE.

CONSTRUCTION NOTES:

- 1 THIS IS A GROUND CONNECTION TO THE CHASSIS. THE MAINS SAFETY CONNECTION SHOULD BE MADE AS CLOSE AS POSSIBLE TO THE POINT WHERE AC ENTERS THE CHASSIS. THE CIRCUIT CONNECTION SHOULD BE MADE AS CLOSE AS POSSIBLE TO THE INPUT JACK. IDEALLY, THE JACK ITSELF SHOULD BE USED AS THE CONNECTION POINT BY NOT ISOLATING IT FROM THE CHASSIS.
- 2 THESE TWO 0.1R/5W RESISTORS ARE OPTIONAL, AND ARE NEEDED ONLY WHEN YOUR MAINS VOLTAGES ARE GREATER THAN THAT WHICH THE POWER TRANSFORMER WAS WOUND FOR. THE VALUES SHOWN SHOULD BE CORRECT FOR A 115V PT USED WITH 120V MAINS. THE PURPOSE OF THESE TWO RESISTORS IS TO INSURE THAT THE FILAMENT VOLTAGE STAYS WITHIN +/- 10% OF 6.3VAC.

VOLTAGE READING NOTES:

1. THE VOLTAGE READINGS ON THIS SCHEMATIC ARE SIMULATED BASED ON THE USE OF A HAMMOND 270FX WITH 120V MAINS.
2. DIFFERENT TUBES DRAW DIFFERENT AMOUNTS OF CURRENT, NO TWO ARE ALIKE UNLESS THEY ARE MATCHED. THE AMOUNT OF CURRENT DRAWN BY ALL THE TUBES IN THE AMP WILL AFFECT VOLTAGE READINGS THROUGHOUT THE AMP.

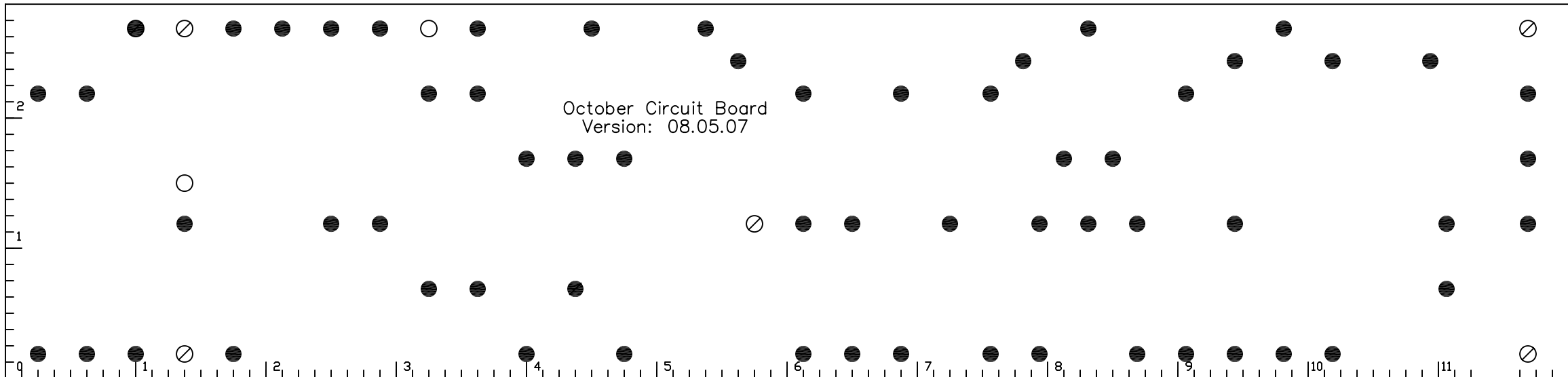
AX84 October Club Amplifier BOM

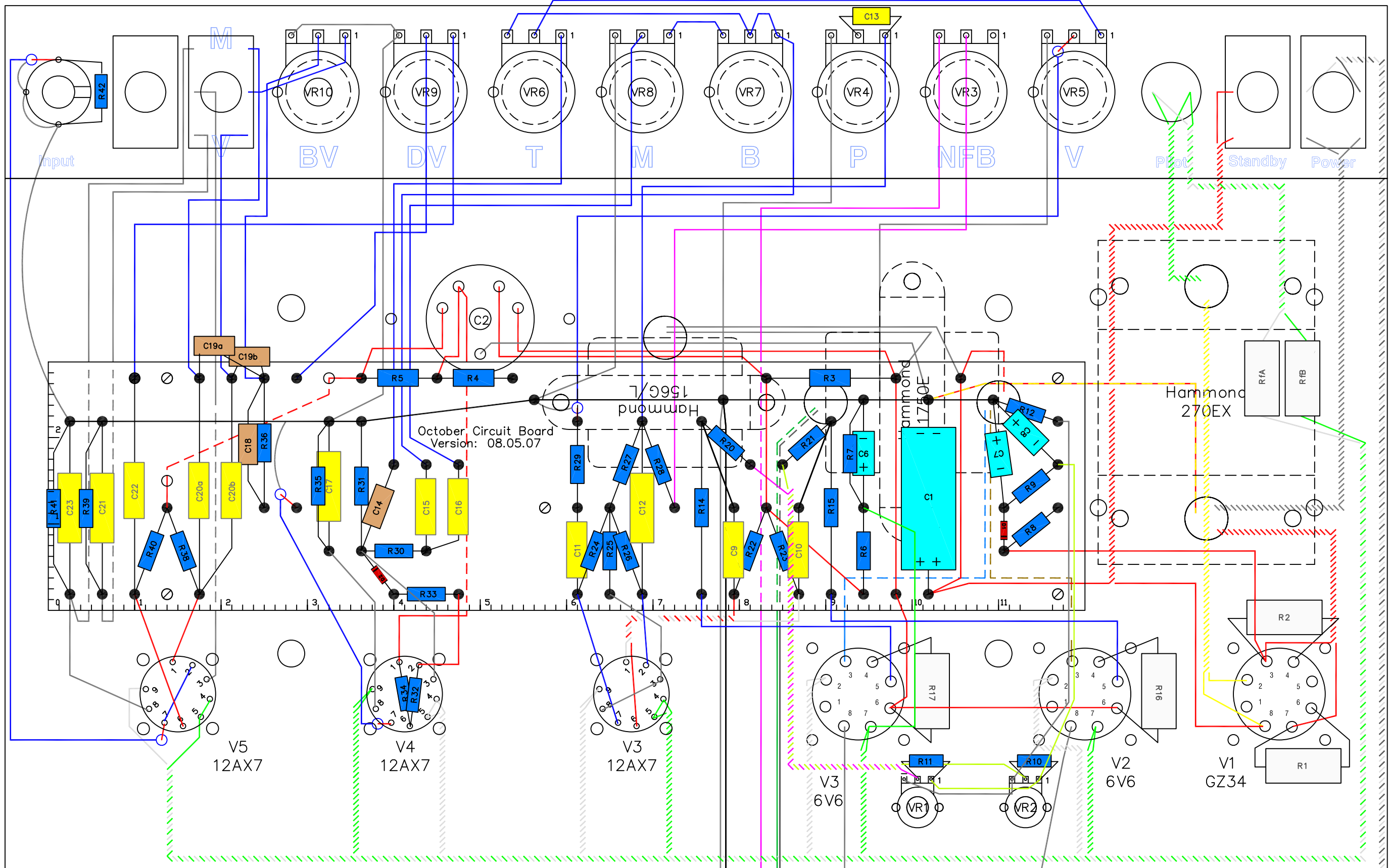
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NOTE: Parts for options are not included on this bill of materials.

Item	Quantity	Reference	Value
1	1	C1	47uF/450V
2	1	C2	40/20/20/20 Multi-section Capacitor
3	3	C6, C7, C8	10uF/160V
4	6	C9, C10, C11, C15, C20a, C22	0.022uF/400V
5	2	C12, C13	0.1uF/100V
6	3	C14, C18, C19b	250pF/500V
7	1	C16	0.01uF/400V
8	2	C17, C21	0.68uF/25V
9	1	C19a	150pF/500V
10	1	C20b	0.0022uF/400V
11	1	C23	330uF/25V
12	2	R1, R2	50R/5W
13	2	Rfa, Rfb	0.1R/5W
14	1	R3	3K/2W
15	3	R4, R5	1k5/1W
16	2	R6, R8	180K/1W
17	1	R7	47K/1W
18	1	R9	15K/1W
19	2	R10, R11	68K
20	2	R12, R33	10K
21	1	R13	220R/5W
22	2	R14, R15	5k6
23	2	R16, R17	1K/5W
24	2	R18, R19	1R/1W
25	8	R20, R21, R23, R29, R31, R34, R38, R40	100K
26	1	R22	82K
27	2	R24, R26, R42	1.0M
28	1	R25	470R
29	2	R27, R28	22K
30	1	R30	56K
31	1	R32	100R
32	1	R35, R41	820R
33	2	R36, R37	249K
34	1	R39	2k7
35			
36	1	F1	1A SLO-BLO
37	1	FH1	Fuse Holder
38	1	J1	Power Connector
39	3	J2, J3, J4	Phonejack
40	4	JW1, JW2, JW3, JW4	Phonejack Isolation Washer (if needed)
41	1	S1	SW DPDT
42	1	S2	SW SPST
43	2	D1, D2	UF4007
44	1	PL1	Pilot Lamp Assembly, Bulb And Lens

45	1	T1	Hammond 270EX
46	1	T2	Hammond 1750E
47	1	L1	Hammond 156G
48	3	SK4, SK5, SK6	9 Pin Tube Sockets
49	3	SK1, SK2, SK3	8 Pin Octal Socket
50	1	V1	GZ34/5AR4
51	2	V2, V3	6V6GT
52	3	V3, V4, V5	12AX7
53	2	VR1, VR2	25K/2W LIN LOCKING
54	1	VR3	100K LIN
55	1	VR4	5K LIN
56	1	VR5	1MEG LOG
57	1	VR6	250K LOG
58	3	VR7, VR9, VR10	500K LOG
59	1	VR8	50K LIN
60	1	CCImp	Clamp For Multi-section Cap C2
61	8	K1, K2, K3, K4, K5, K6, K7, K8	Knobs
62	1	CH1	Chassis





AX84 October ~ Club Chassis Layout

Version: 08.05.12

AX84 Kit Chassis 2

Version: 08.05.12

