

Notes:

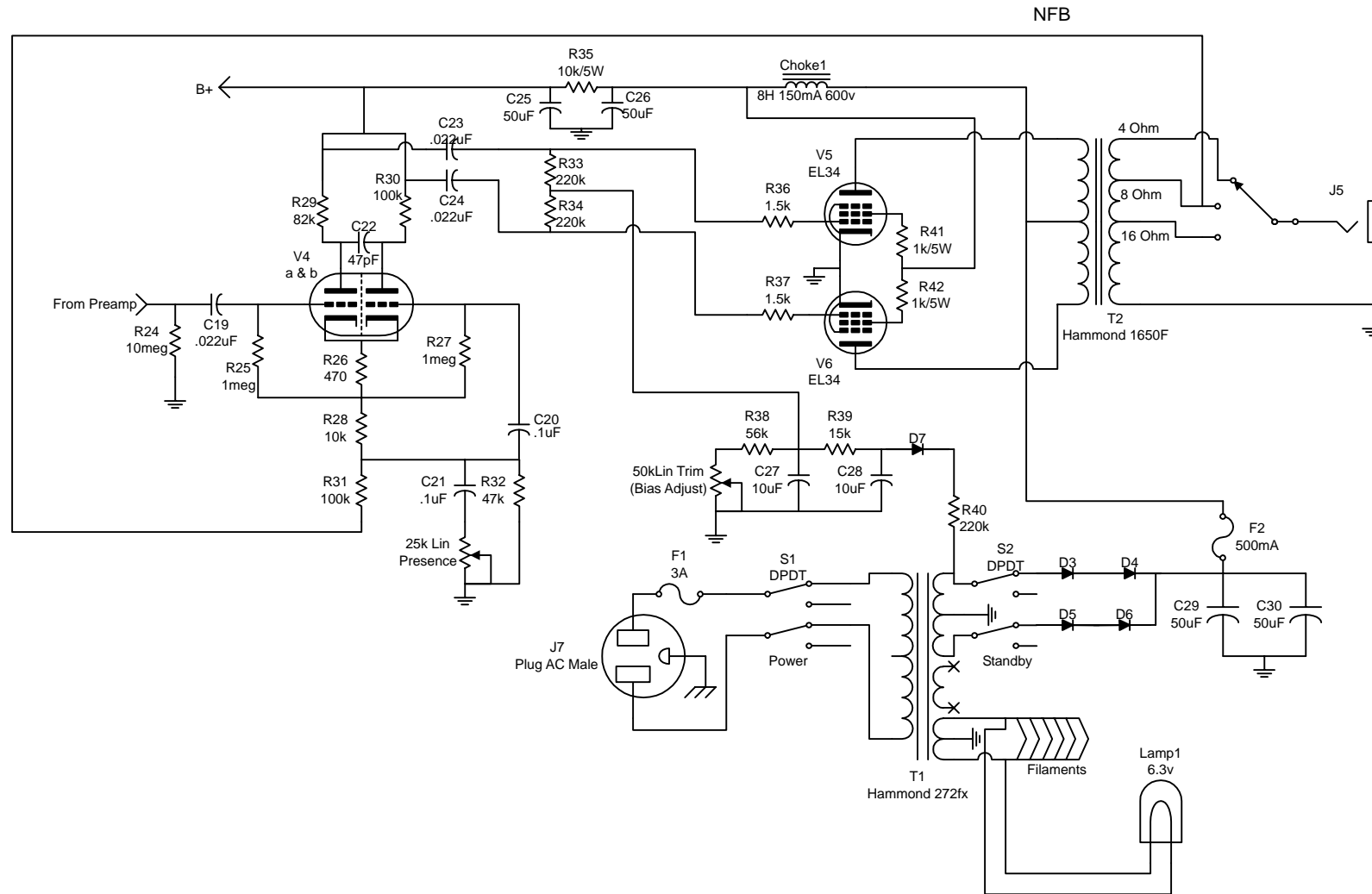
Using this method of channel switching is not necessarily the best method, but it does work rather well. At the same time providing a completely separate preamp rather than sharing components.

In the clean channel tone stack you may substitute the 15k resistor for a 25k linear potentiometer to add midrange control for that channel.

LED lamps that are used are the type that include a current limiting resistor. If you use a different LED type then take this into account.

To gain more clean headroom in the clean channel you may wish to remove C1 and C5 to reduce the gain of that stage.

Open Valve / AX84	
Renegade Channel Switching Amplifier Preamp	
Drawn By	Anthony Noel
Date	12/14/2000
Version	1.0



Notes:

DC was dropped from the Preamp filaments as was originally planned and AC was applied instead.

Power Transformer: Hammond 270fx for 35 watts or Hammond 272fx for 50watts, or equivalent and adjust bias accordingly.

Output Transformer: Hammond 1650f or equivalent.

If you choose to use an impedance selector. Hammond manufactures a switch/jack combo specifically for the 1650F transformer, and is available through AES.

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Renegade Bill of Materials

Qty	References	Value
7	C8,C11,C16,C17,C19,C23,C24	.022uf
2	C4,C6	.047uF
3	C3,C20,C21	.1uF
2	C27,C28	10uF
3	C7,C10,C14	1uf
1	C2	250pF
2	C1,C5	25uf
2	C12,C13	50uf
2	C9,C15	470pF
1	C22	47pF
4	C25,C26,C29,C30	50uF
1	C31	4700uf
4	R3,R8,R36,R37	1.5k
1	R16	1.8k
9	R12,R15,R21,R4,R7,R5,R22,R30,R31	100k
1	R28	10k
2	R17,R35	10k/5W
2	R6,R39	15k
2	R41,R42	1k/5w
4	R10,R2,R25,R27	1meg
1	R23	33k
1	R11	2.7k
3	R33,R34,R40	220k
1	R38	56k
1	R29	82k
1	R20	820
1	R1	68k
1	R26	470
4	R13,R14,R18,R19	470k
1	R32	47k
2	Treble	250k Lin
2	Mid,Presence	25k Lin
1	Bias Adjust	50k Lin Trim pot
5	Bass,Bass,Vol 1,Vol 2 ,Master Vol	1meg log
1	Fuse	3A
1	Fuse	500mA
2	Relay1, Relay2	12v RELAY_DPDT
1	Choke1	Hammond 193D
4	V1,V2,V3,V4	12AX7
2	V5,V6	EL34
6	J1,J2,J3,J4,J5,J6	Phone jack
1	LED1,LED2	12v LED w/Resistor
7	D1,D2,D3,D4,D5,D6,D7	1n4007
1	J7	PLUG AC MALE
1	S2	SW_DPDT
1	S1	SW_DPDT
1	T1	Hammond 272FX
1	T2	Hammond 1650F
1	T3	120VAC to 12VAC
1	Lamp1	6.3VAC Miniature