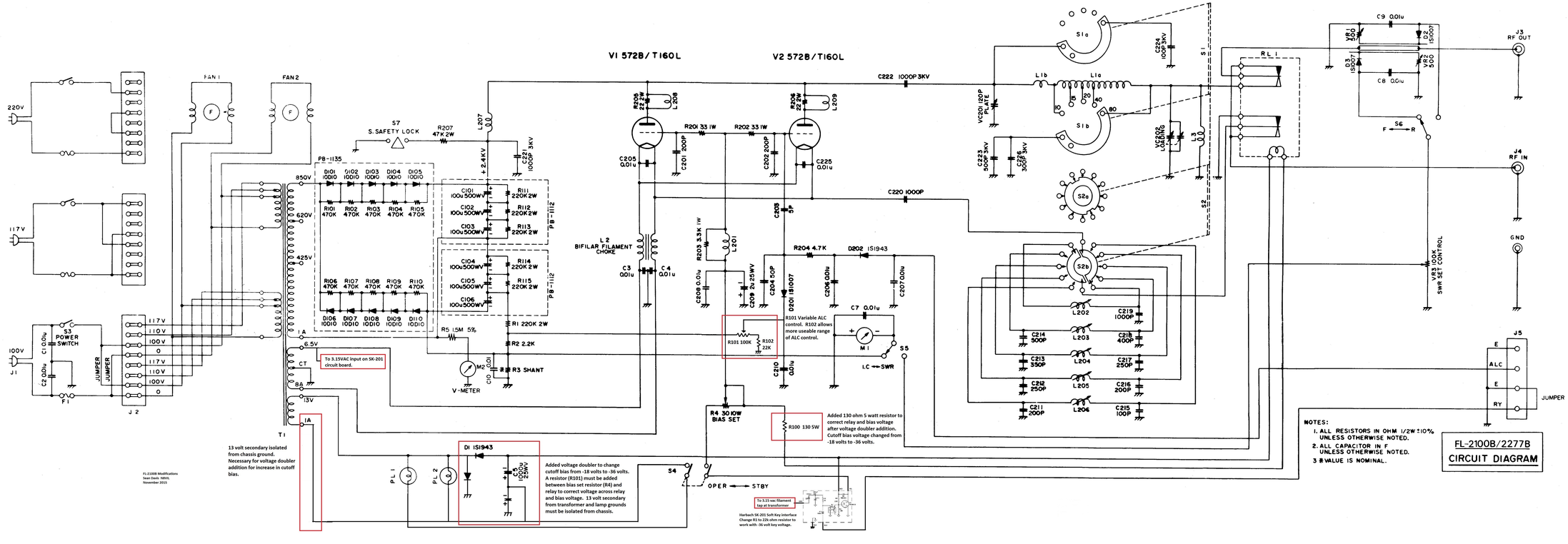
V1 572B/T160L
V2 572B/T160L
220V
117V
100V
J1
S3 POWER SWITCH
C1 0.01u
C2 0.01u
F1
JUMPER
J2
FAN1
FAN2
S7 S. SAFETY LOCK
R207 47K 2W
L207
C211 1000P 3KV
+2.4KV
PB-1135
DI01 1001D
DI02 1001D
DI03 1001D
DI04 1001D
DI05 1001D
DI06 1001D
DI07 1001D
DI08 1001D
DI09 1001D
DI10 1001D
850V
620V
425V
1A
6.5V
CT
6A
13V
T1
R101 470K
R102 470K
R103 470K
R104 470K
R105 470K
R106 470K
R107 470K
R108 470K
R109 470K
R110 470K
C101 100u 500WV
C102 100u 500WV
C103 100u 500WV
C104 100u 500WV
C105 100u 500WV
C106 100u 500WV
R111 220K 2W
R112 220K 2W
R113 220K 2W
R114 220K 2W
R115 220K 2W
PB-1112
R1 220K 2W
R2 2.2K
R5 15M 5%
M2
C10 0.001
R3 SHANT
V-METER
To 3.15VAC input on SK-201 circuit board.
R208 22K 2W
L208
R209 22K 2W
L209
R201 33 1W
R202 33 1W
C201 200P
C202 200P
C205 0.01u
C225 0.01u
C222 1000P 3KV
C220 1000P
C208 5P
L2 BIFILAR FILAMENT CHOKE
C3 0.01u
C4 0.01u
R203 3.3K 1W
L201
C209 2u 25WV
C204 50P
D201 1S1007
R204 4.7K
D202 1S1943
C206 0.01u
C207 0.01u
C7 0.01u
M1
LC — SWR
S5
C208 0.01u
C210 0.01u
R101 Variable ALC control. R102 allows more useable range of ALC control.
R101 100K
R102 22K
R4 30 10W BIAS SET
R100 130 5W
Added 130 ohm 5 watt resistor to correct relay and bias voltage after voltage doubler addition. Cutoff bias voltage changed from -18 volts to -36 volts.
13 volt secondary isolated from chassis ground. Necessary for voltage doubler addition for increase in cutoff bias.
D1 1S1943
C5 100u 25WV
PL1
PL2
Added voltage doubler to change cutoff bias from -18 volts to -36 volts. A resistor (R101) must be added between bias set resistor (R4) and relay to correct voltage across relay and bias voltage. 13 volt secondary from transformer and lamp grounds must be isolated from chassis.
S4
OPER — STBY
To 3.15 vac filament tap at transformer
Harbach SK-201 Soft Key interface Change R1 to 22k ohm resistor to work with -36 volt key voltage.
S1a
S1b
S2a
S2b
S1
S2
C224 1000P 3KV
VC201 120P PLATE
VC202 LOADING
VC203 TUNING
L1b
L1a
10
15
20
40
80
L3
C223 500P 3KV
C226 500P 3KV
RL1
C9 0.01u
VC1 100P
VC2 100P
VC3 100P
C8 0.01u
S6
F — R
J3 RF OUT
J4 RF IN
GND
VRT HOOK SWR SET CONTROL
C214 500P
C213 350P
C212 250P
C211 200P
L202
L203
L204
L205
L206
C219 1000P
C218 400P
C217 250P
C216 200P
C215 100P
J5
E
ALC
E
RY
JUMPER
NOTES:
1. ALL RESISTORS IN OHM 1/2W ±10% UNLESS OTHERWISE NOTED.
2. ALL CAPACITOR IN F UNLESS OTHERWISE NOTED.
3. R VALUE IS NOMINAL.
FL-2100B/2277B
CIRCUIT DIAGRAM
FL2100B Modifications
Sean Davis N8VIL
November 2015