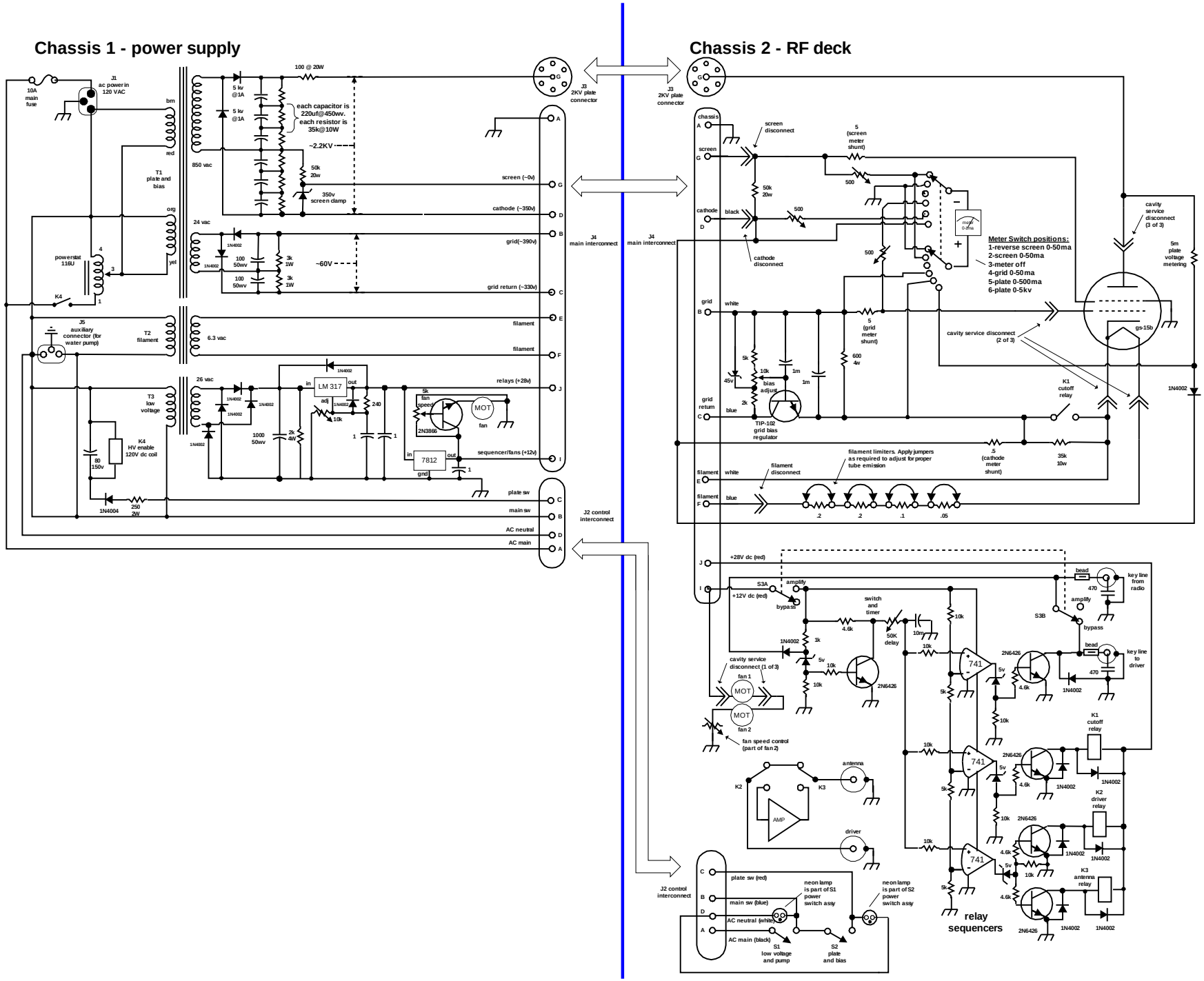
Chassis 1 - power supply
Chassis 2 - RF deck
10A main fuse
J1 ac power in 120 VAC
bm
red
org
yel
T1 plate and bias
850 vac
24 vac
6.3 vac
26 vac
T2 filament
T3 low voltage
powerstat 116U
K4
J5 auxiliary connector (for water pump)
K4 HV enable 120V dc coil
80 150v
1N4004
250 2W
100 @ 20W
5 kv @1A
each capacitor is 220uf@450wv. each resistor is 35k@10W
~2.2KV
50k 20w
350v screen damp
~60V
100 50wv
3k 1W
1N4002
1000 50wv
2k 4W
LM 317
in
out
adj
10k
240
1
5k fan speed
MOT
fan
2N3866
7812
gnd
J3 2KV plate connector
screen (~0v)
cathode (~350v)
grid(~390v)
grid return (~330v)
filament
relays (+28v)
sequencer/fans (+12v)
plate sw
main sw
AC neutral
AC main
J4 main interconnect
J2 control interconnect
chassis
screen
cathode
black
grid
white
grid return
blue
filament
screen disconnect
5 (screen meter shunt)
500
50k 20w
cathode disconnect
Meter Switch positions:
1-reverse screen 0-50ma
2-screen 0-50ma
3-meter off
4-grid 0-50ma
5-plate 0-500ma
6-plate 0-5kv
cavity service disconnect (3 of 3)
5m plate voltage metering
gs-15b
cavity service disconnect (2 of 3)
5 (grid meter shunt)
600 4w
5k
10k
bias adjust
1m
45v
2k
TIP-102 grid bias regulator
K1 cutoff relay
1N4002
filament limiters. Apply jumpers as required to adjust for proper tube emission
.5 (cathode meter shunt)
35k 10w
filament disconnect
.2
.1
.05
+28V dc (red)
+12V dc (red)
S3A
amplify
bypass
switch and timer
4.6k
50K delay
10m
1k
5v
2N6426
741
bead
470
key line from radio
S3B
key line to driver
cavity service disconnect (1 of 3)
fan 1
fan 2
fan speed control (part of fan 2)
K2
K3
antenna
AMP
driver
K1 cutoff relay
K2 driver relay
K3 antenna relay
relay sequencers
plate sw (red)
main sw (blue)
AC neutral (white)
AC main (black)
neon lamp is part of S1 power switch assy
neon lamp is part of S2 power switch assy
S1 low voltage and pump
S2 plate and bias