SECTION VII
ILLUSTRATIONS

IGH VOLTAGE SUPPLY

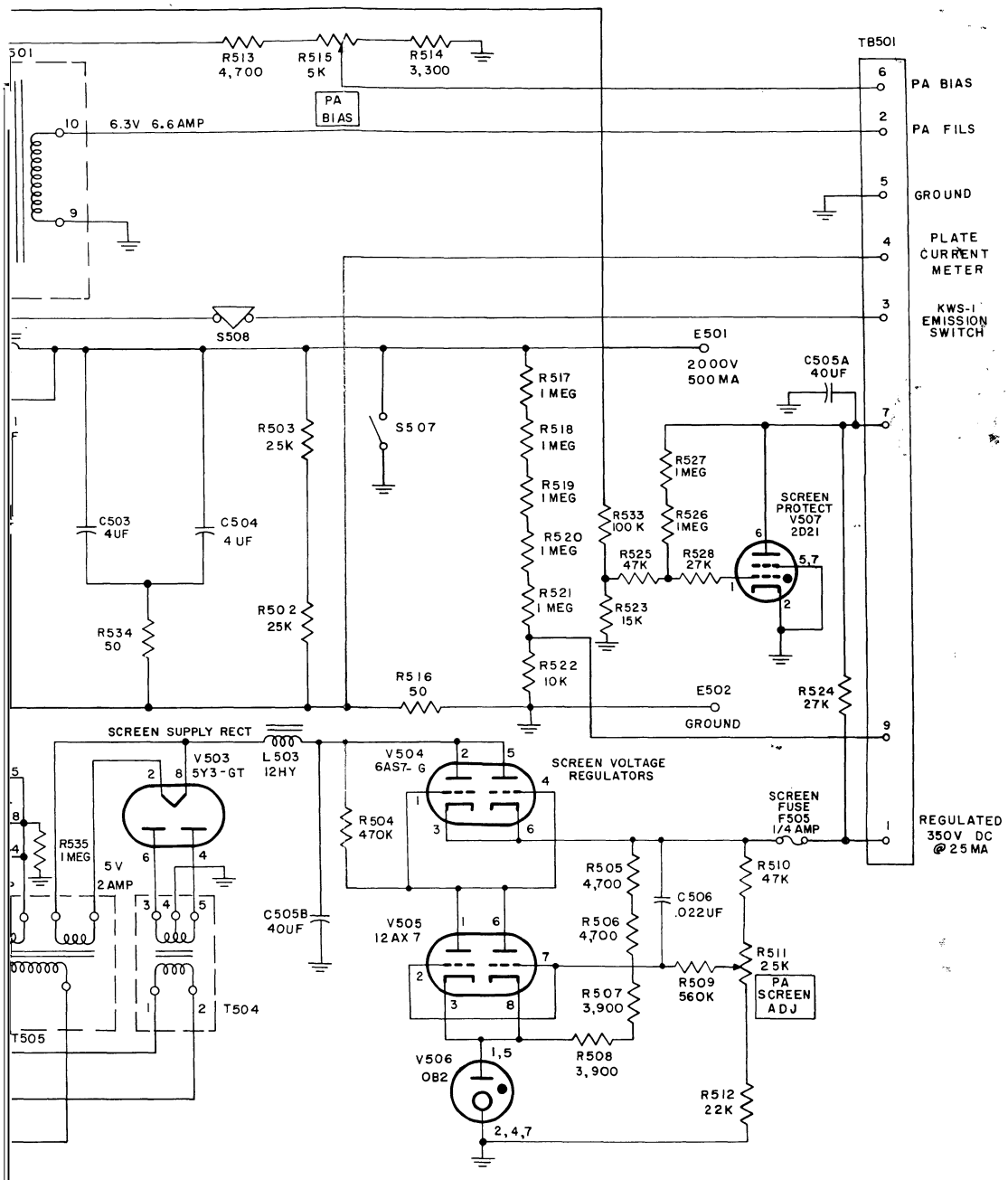
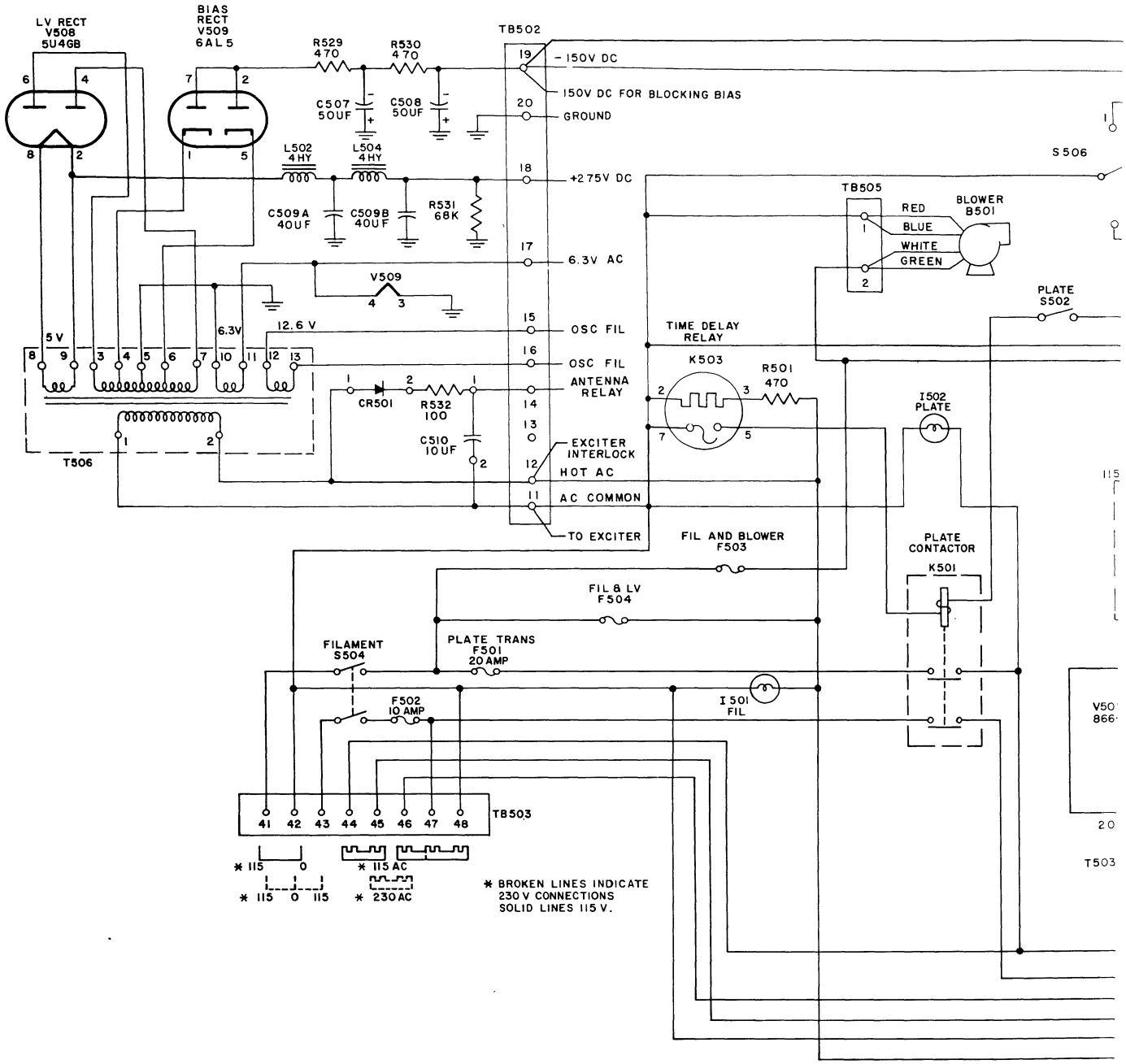


Figure 7-2. Power Supply, Complete Schematic Diagram

LOW VOLTAGE AND BIAS SUPPLY



, ALC BIAS CIRCUITS
CIRCUIT
-01
RRENT METER

CIRCUIT
E CIRCUIT

SWITCH S701-12

I INTERLOCK CIRCUIT

1-4&5 TO J102-4
LAMENT REGULATOR
T CIRCUIT
FILAMENT SUPPLY
B PLUS SUPPLY
ORK

ORK

VER DISABLE
CIRCUIT

IER CATHODE

WIRE
COLOR CODE

9 - WHITE (BODY)
1 - BLACK
2 - RED
3 - ORANGE
5 - GREEN
6 - BLUE

N.

JT,
ET.

P.

F

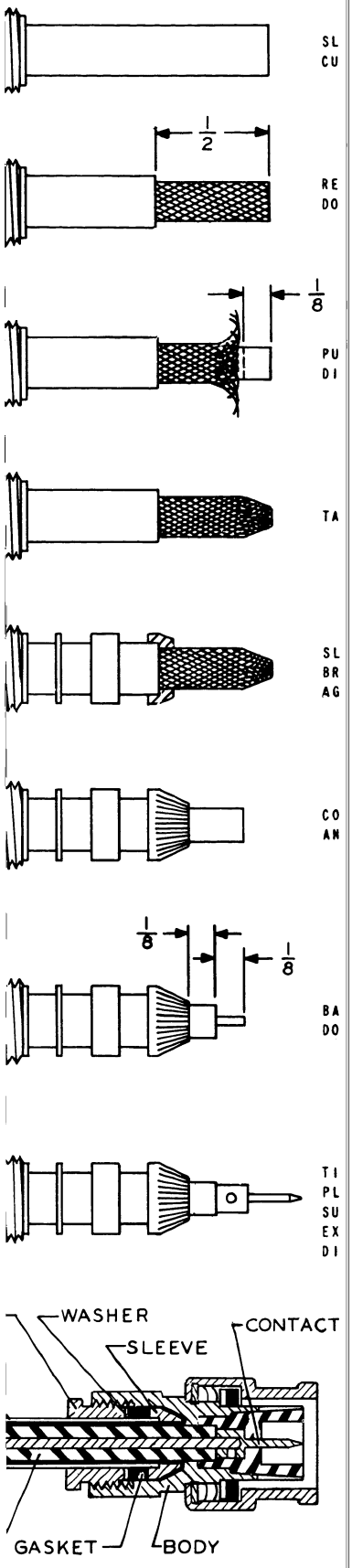
ERS,

S
ND
H
DO
VIPE

I
IN

SO
OLE
EL—
N—

APPLIES
CEDURE
XCEPT
CONTACT



SL
CU

E NUT ONTO CABLE.
END OF CABLE EVEN.

RE
DO

VE VINYL JACKET FOR 1/2 INCH.
DT NICK BRAID.

PU
DI

BRAID BACK AND REMOVE 1/8 INCH OF
ECTRIC AND CENTER CONDUCTOR.

TA

R BRAID.

SL
BR
AG

E WASHER, GASKET AND SLEEVE OVER TAPERED
D. FIT INNER SHOULDER OF SLEEVE SQUARELY
NST END OF JACKET.

CO
AN

OUT BRAID, FOLD BACK SMOOTH AS SHOWN
TRIM 3/32 INCH.

BA
DO

CENTER CONDUCTOR 1/8 INCH.
OT NICK CONDUCTOR.

TI
PL
SU
EX
DI

CENTER CONDUCTOR. SLIP CONTACT IN
E AND SOLDER. REMOVE EXCESS SOLDER. BE
THAT CABLE DIELECTRIC IS NOT HEATED
SSIVELY AND SWOLLEN SO AS TO PREVENT
ECTRIC FROM ENTERING BODY.

PUSH INTO BODY AS FAR AS IT WILL GO. SLIDE
GASKET, WASHER AND NUT INTO BODY. SCREW INTO
PLACE, WITH WRENCH, UNTIL MODERATELY TIGHT.
HOLD CABLE AND BODY RIGIDLY AND ROTATE NUT.

Figure 7-5. RG-58/U Cable A

embly to Connectors

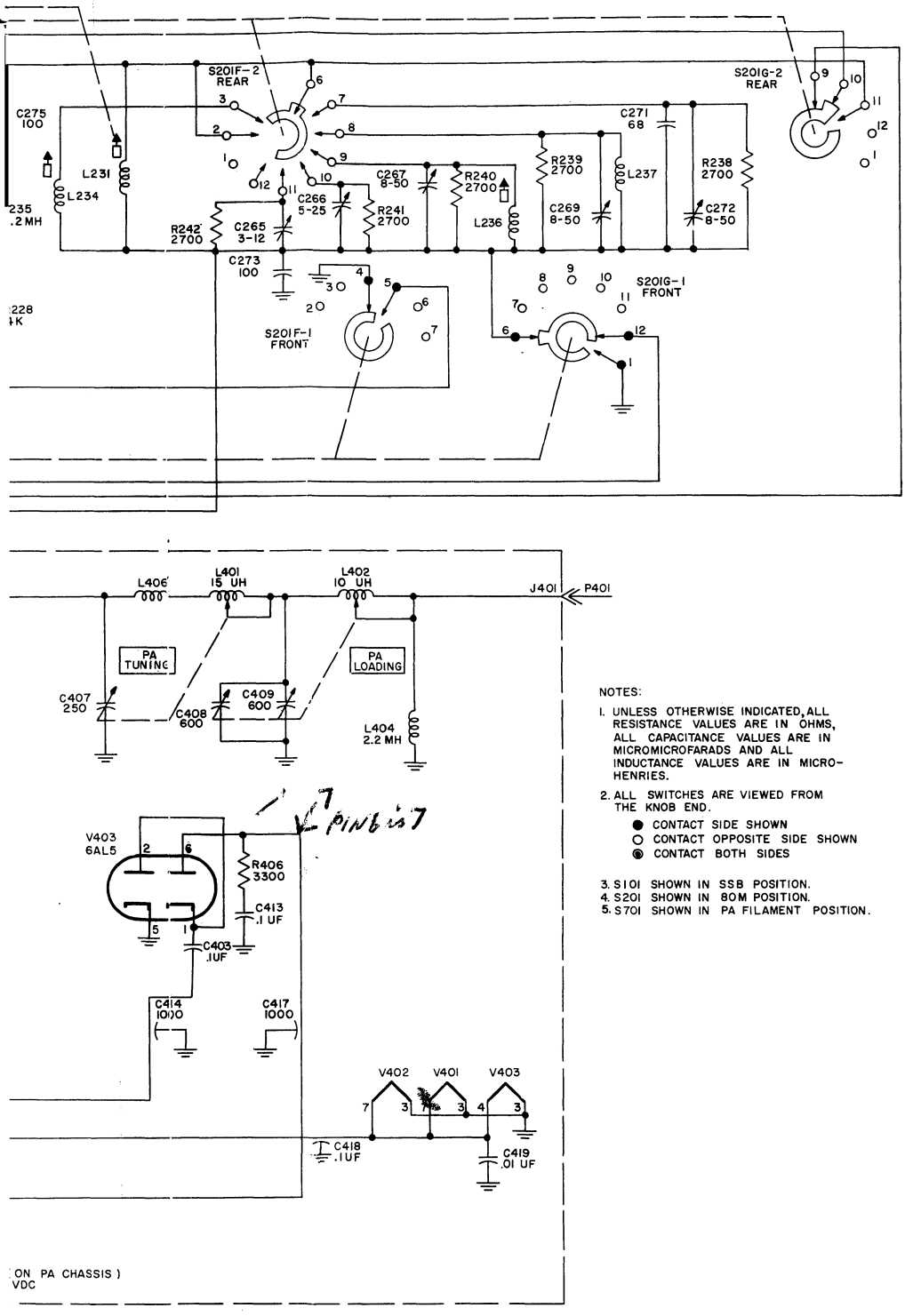
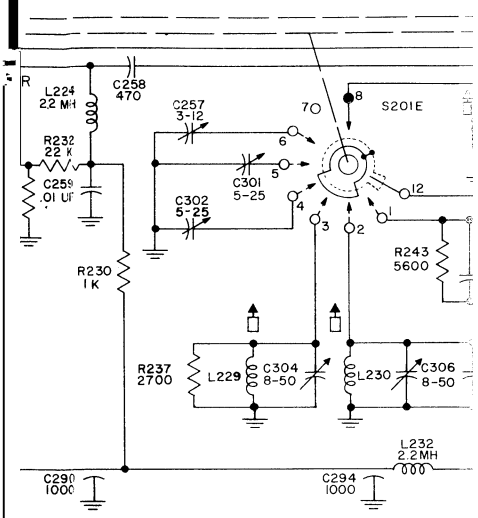
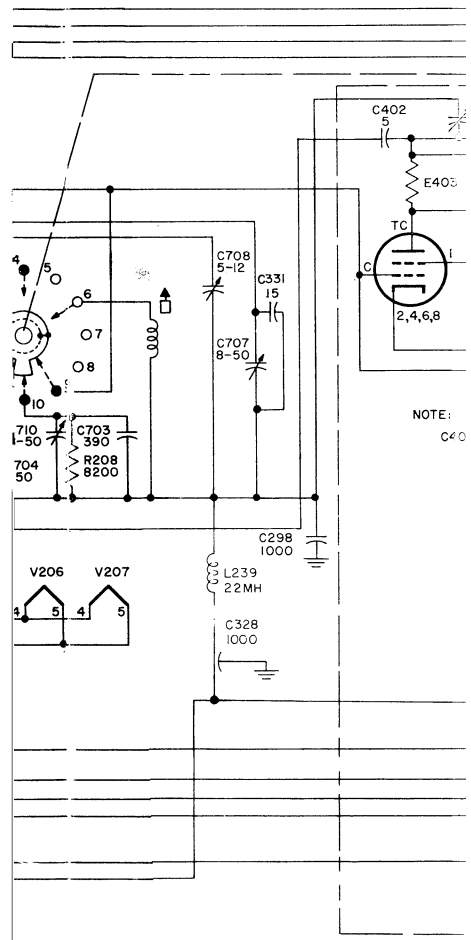


Figure 7-1. Exciter/Power Amplifier, Complete Schematic Diagram


L224
2.2 MH
C258
470
R232
22 K
C259
.01 UF
R230
1 K
C257
3-12
C301
5-25
C302
5-25
S201E
R243
5600
R237
2700
L229
C304
8-50
L230
C306
8-50
L232
2.2MH
C290
1000
C294
1000


C402
5
E403
TC
2,4,6,8
C708
5-12
C331
15
C707
8-50
710
1-50
C703
390
R208
8200
704
50
C298
1000
V206
V207
L239
22MH
C328
1000
NOTE:

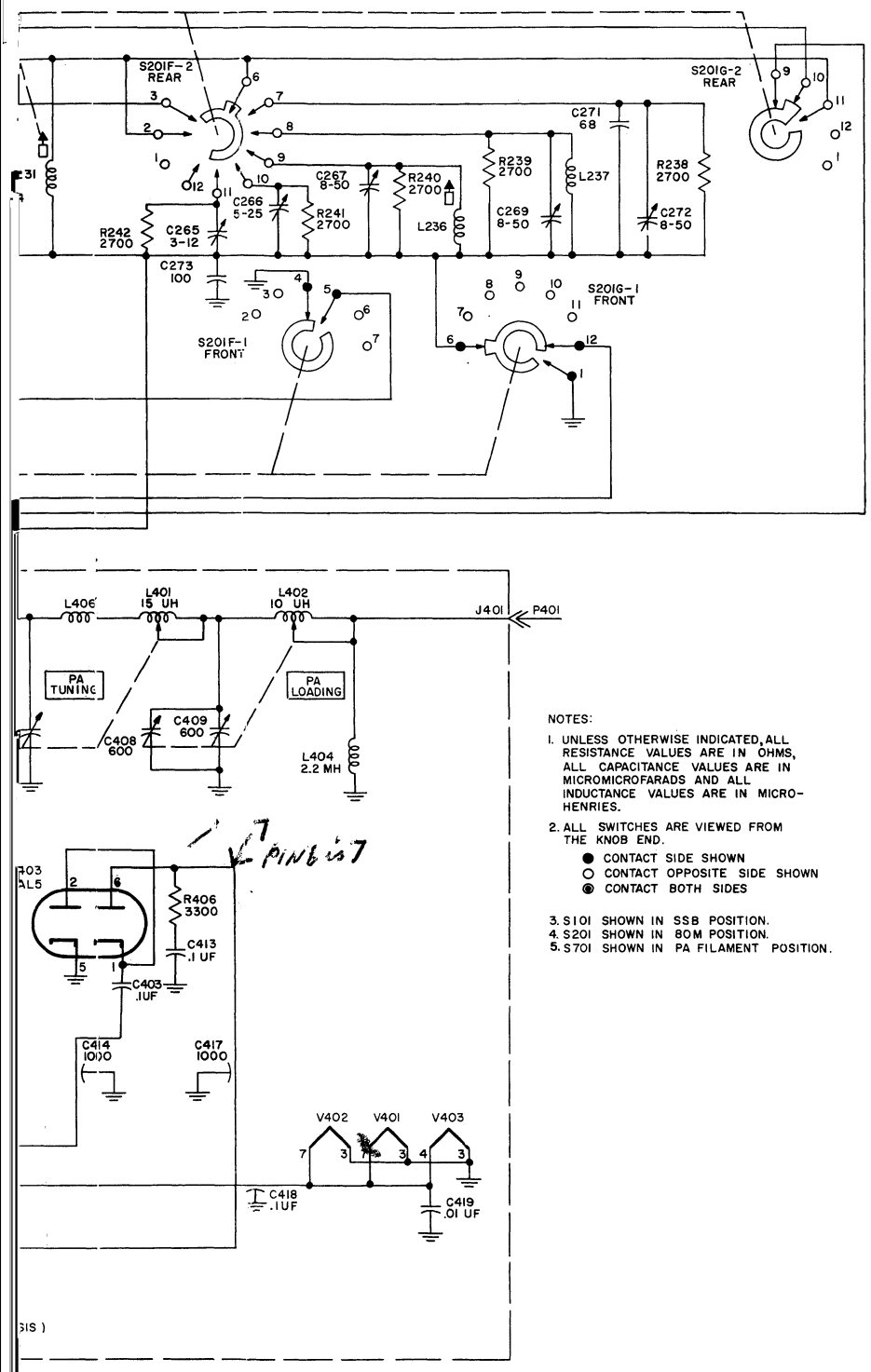
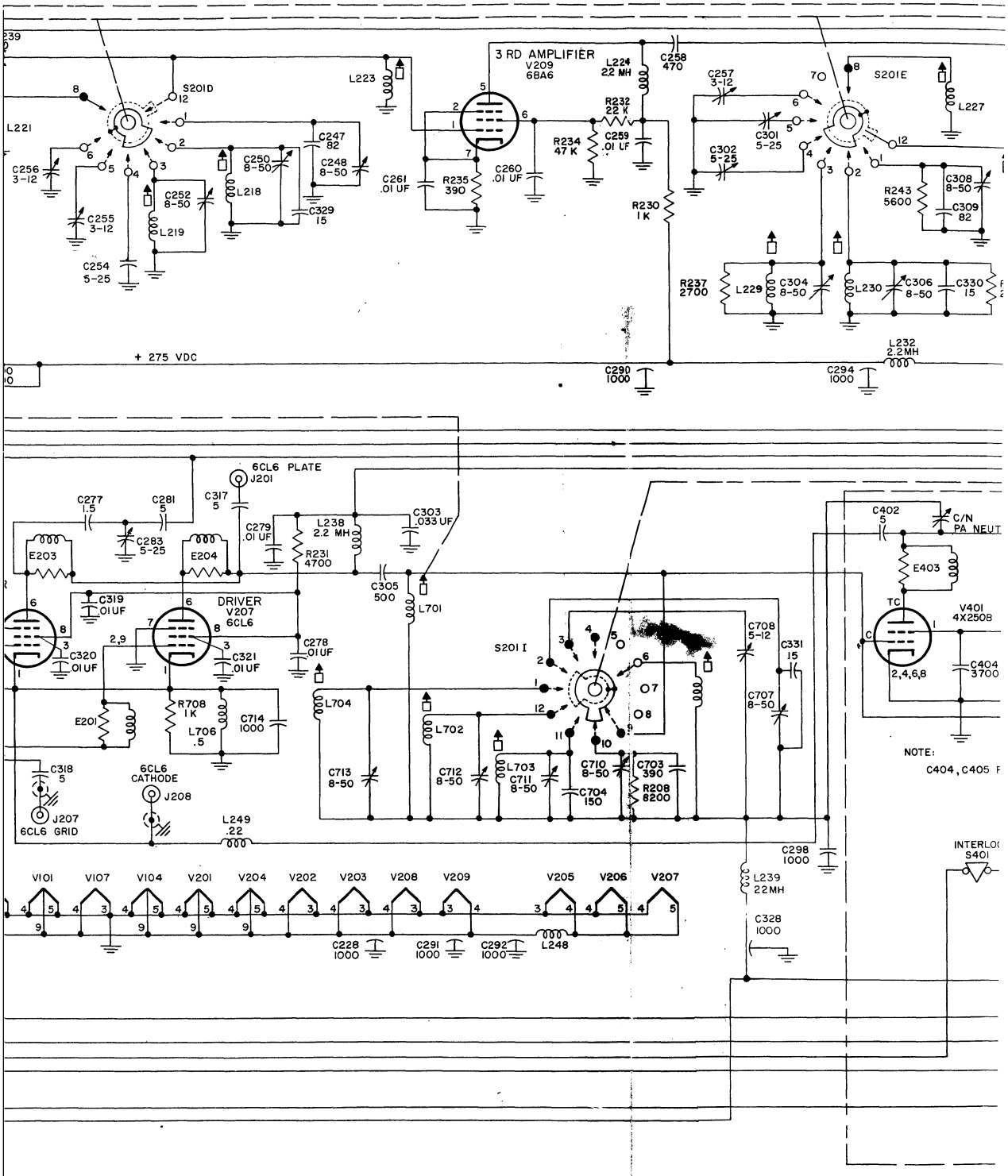
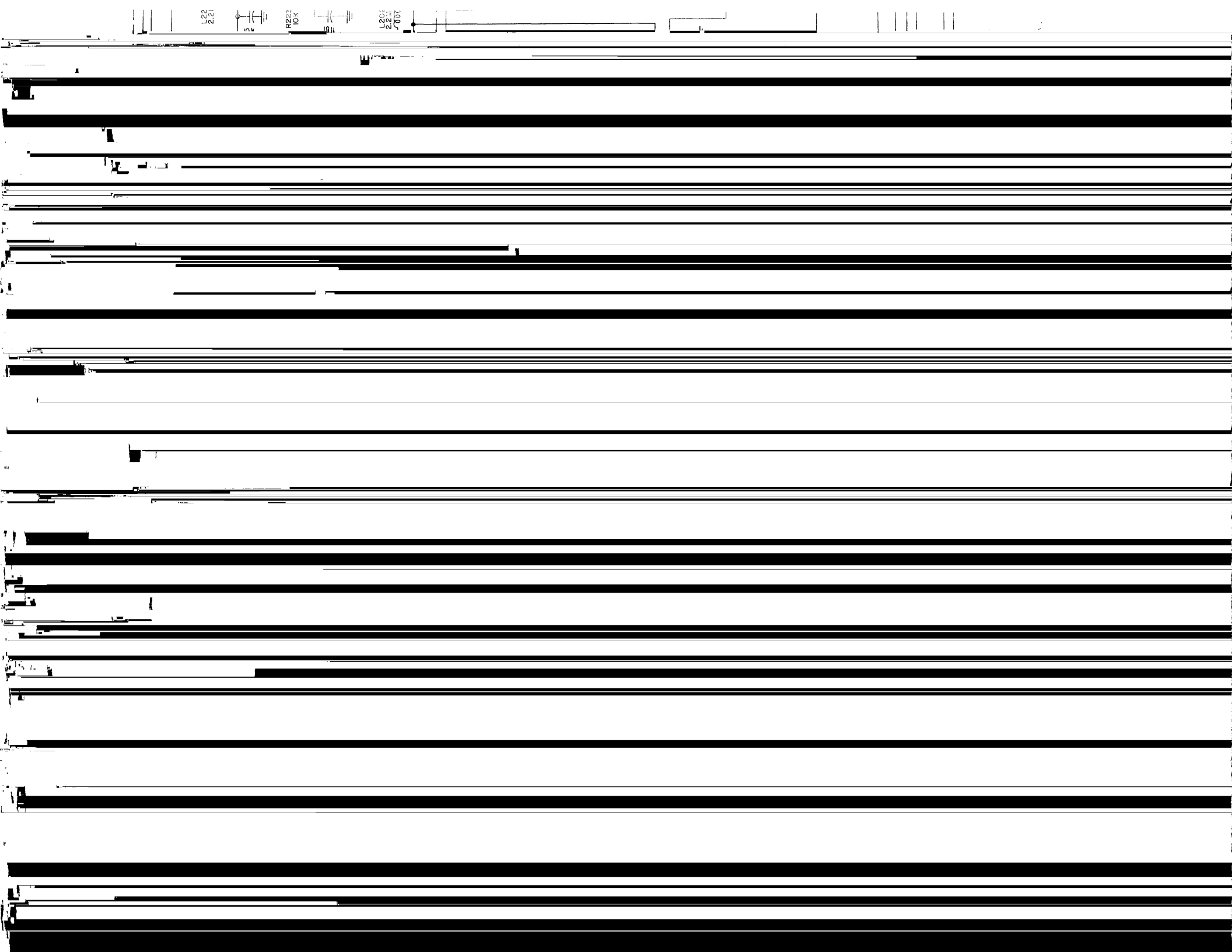
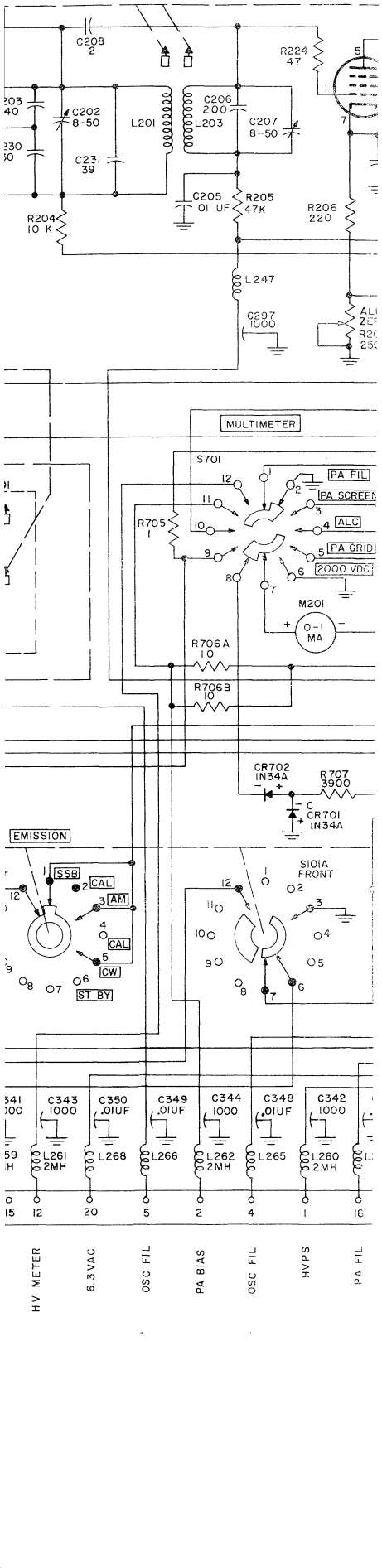
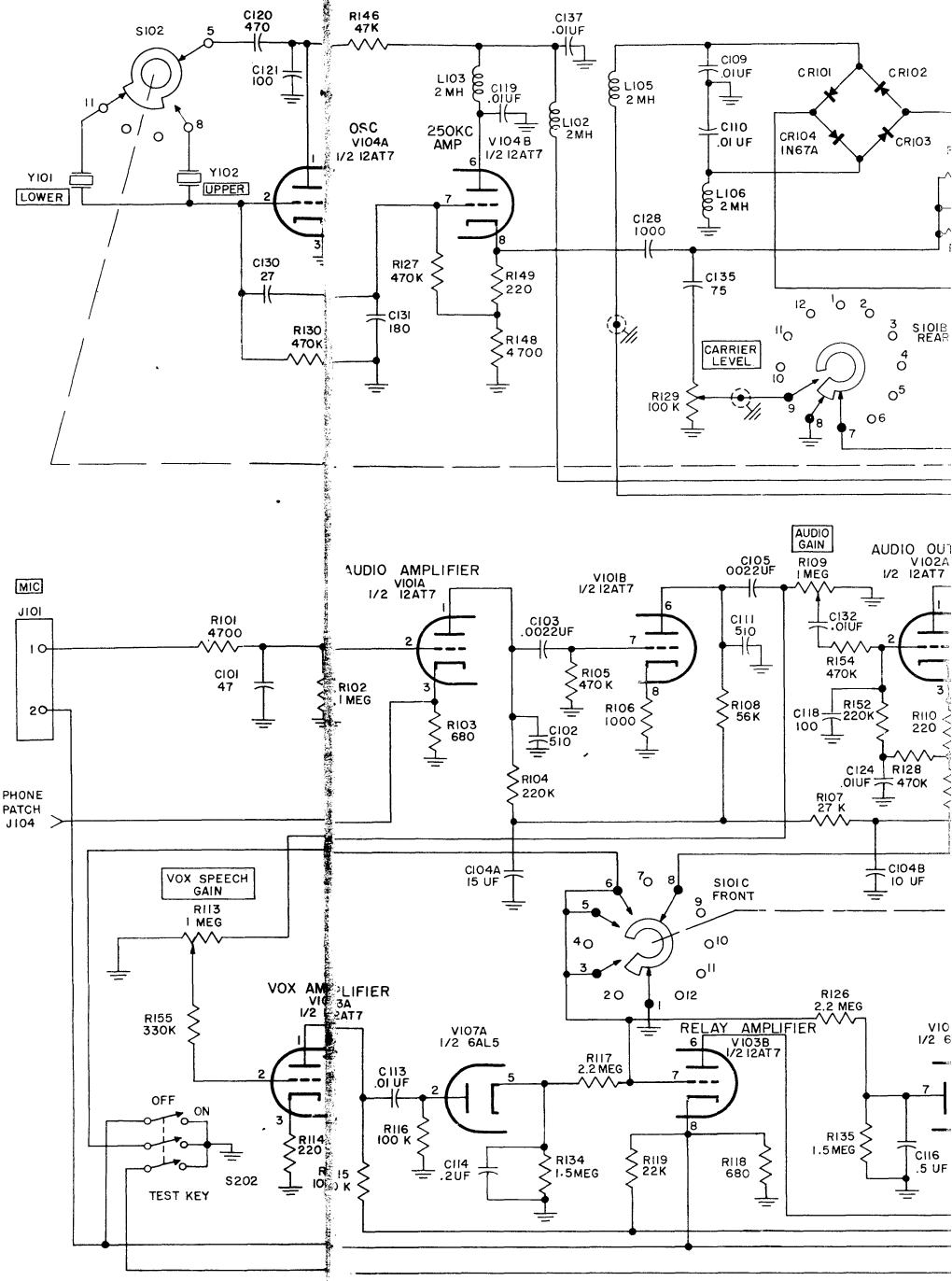


Figure 7-1. Exciter/Power Amplifier, Complete Schematic Diagram


3 RD AMPLIFIER
V209
6BA6
S201D
S201E
L221
L223
L224
22 MH
C258
470
C257
3-12
L227
C301
5-25
C302
5-25
C247
82
C248
8-50
C250
8-50
C252
8-50
C254
5-25
C255
3-12
C256
3-12
L218
L219
C329
15
C261
.01 UF
R235
390
C260
.01 UF
R234
47 K
R232
22 K
C259
.01 UF
R230
1 K
R243
5600
C308
8-50
C309
82
R237
2700
L229
C304
8-50
L230
C306
8-50
C330
15
+ 275 VDC
C290
1000
L232
2.2MH
C294
1000
6CL6 PLATE
J201
C317
5
C277
1.5
C281
5
C283
5-25
E203
E204
C279
.01 UF
L238
2.2 MH
R231
4700
C303
.033 UF
C305
500
L701
C319
.01 UF
C320
.01 UF
DRIVER
V207
6CL6
C321
.01 UF
C278
.01 UF
S201 I
C708
5-12
C331
15
C707
8-50
E201
R708
1 K
L706
.5
C714
1000
L704
L702
C713
8-50
C712
8-50
L703
C711
8-50
C710
8-50
C703
390
R208
8200
C704
150
C318
5
J207
6CL6 GRID
6CL6
CATHODE
J208
L249
.22
C298
1000
L239
22MH
C328
1000
C402
5
C/N
PA NEUT
E403
TC
V401
4X250B
C404
3700
2,4,6,8
NOTE:
C404, C405 F
INTERLO
S401
V101
V107
V104
V201
V204
V202
V203
V208
V209
V205
V206
V207
C228
1000
C291
1000
C292
1000
L248


L22
2.2n
R223
10K


C208
2
R224
47
C202
8-50
L201
L203
C206
200
C207
8-50
C231
39
C205
01 UF
R205
47K
R204
10 K
R206
220
L247
C297
1000
MULTIMETER
S701
PA FIL
PA SCREEN
ALC
PA GRID
2000 VDC
R705
M201
0-1
MA
R706A
10
R706B
10
CR702
IN34A
R707
3900
C
CR701
IN34A
EMISSION
SSB
CAL
AM
CAL
CW
ST BY
S101A
FRONT
C343
1000
C350
.01UF
C349
.01UF
C344
1000
C348
.01UF
C342
1000
L261
2MH
L268
L266
L262
2MH
L265
L260
2MH
HV METER
6.3VAC
OSC FIL
PA BIAS
OSC FIL
HVPS
PA FIL


S102
C120 470
R146 47K
C137 .01UF
C121 100
L103 2 MH
C119 .01UF
L102 2MH
L105 2 MH
C109 .01UF
CR101
CR102
CR104 IN67A
CR103
C110 .01 UF
L106 2MH
OSC V104A 1/2 12AT7
250KC AMP V104B 1/2 12AT7
Y101 LOWER
Y102 UPPER
C128 1000
C130 27
R127 470K
R149 220
C131 180
C135 75
R130 470K
R148 4700
CARRIER LEVEL
R129 100 K
S101B REAR
MIC
J101
R101 4700
C101 47
AUDIO AMPLIFIER V101A 1/2 12AT7
V101B 1/2 12AT7
C105 .0022UF
AUDIO GAIN
R109 1 MEG
C103 .0022UF
C111 510
C132 .01UF
R154 470K
R102 1 MEG
R103 680
R105 470 K
R106 1000
R108 56K
C118 100
R152 220K
R110 220
C102 510
C124 .01UF
R128 470K
R104 220K
R107 27 K
PHONE PATCH J104
C104A 15 UF
C104B 10 UF
VOX SPEECH GAIN
R113 1 MEG
S101C FRONT
R155 330K
VOX AMPLIFIER V107A 1/2 6AL5
V103A 1/2 12AT7
C113 .01 UF
R117 2.2 MEG
R126 2.2 MEG
RELAY AMPLIFIER V103B 1/2 12AT7
OFF
ON
R116 100 K
C114 .2UF
R134 1.5MEG
R119 22K
R118 680
R135 1.5MEG
C116 .5 UF
R114 220
S202
TEST KEY