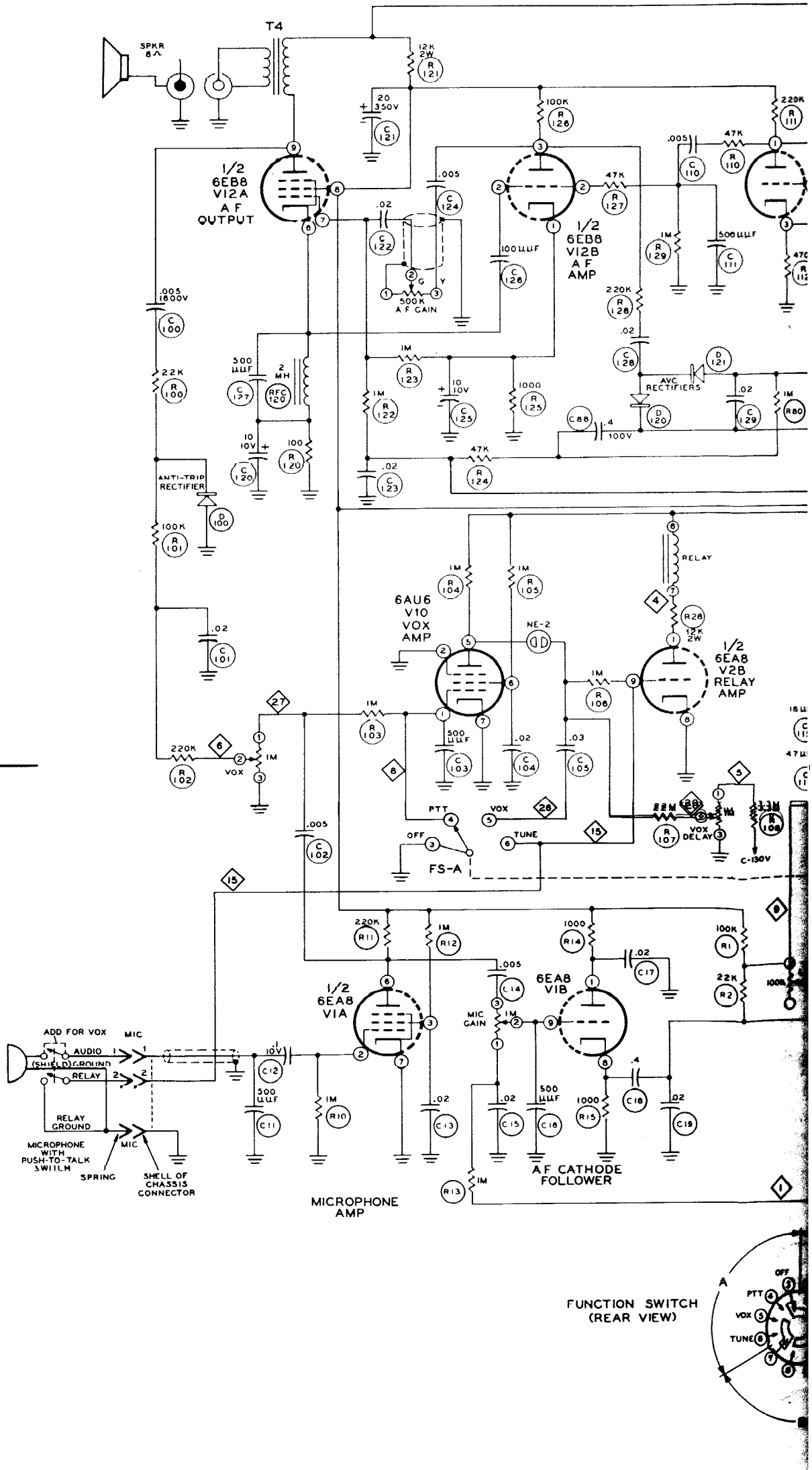
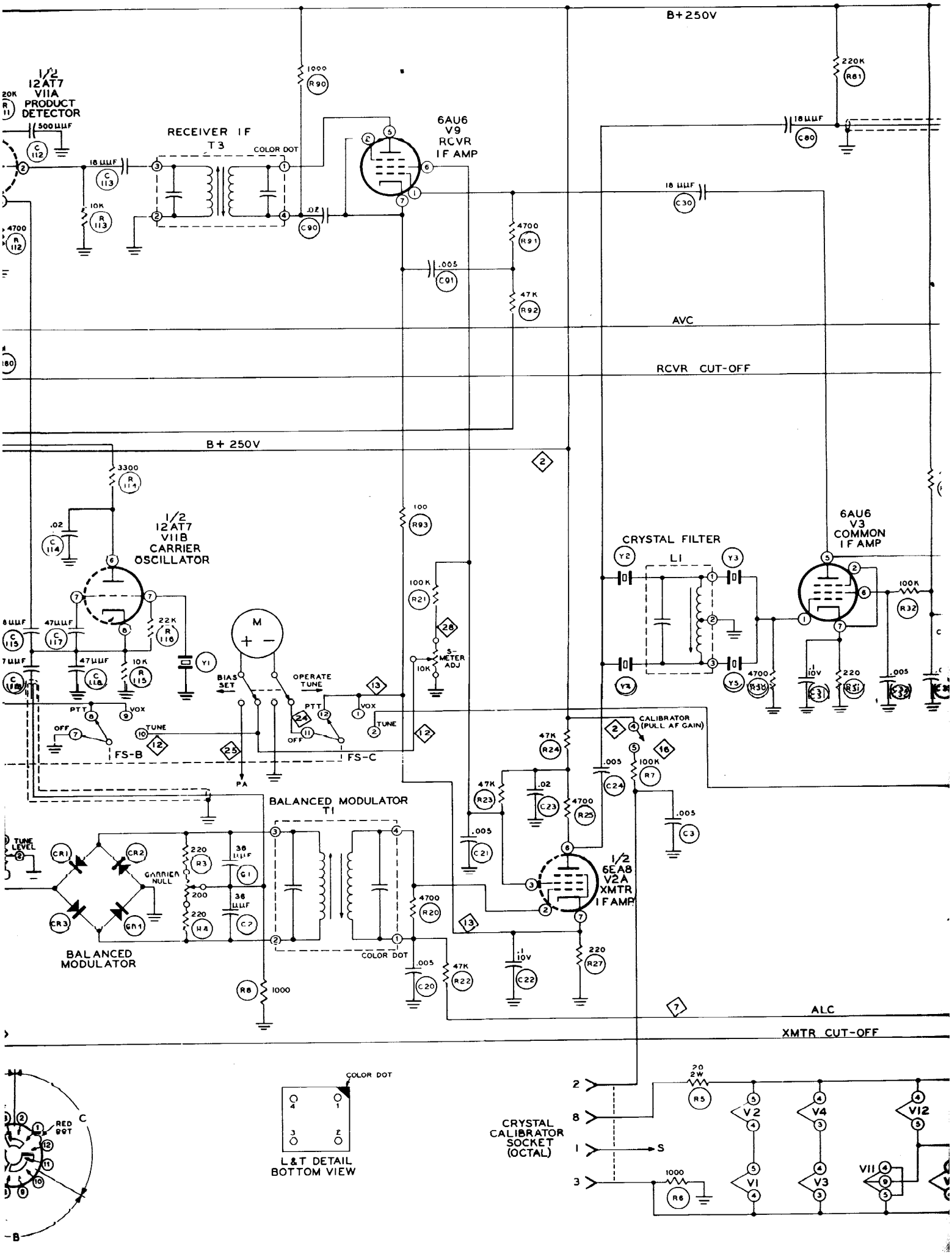
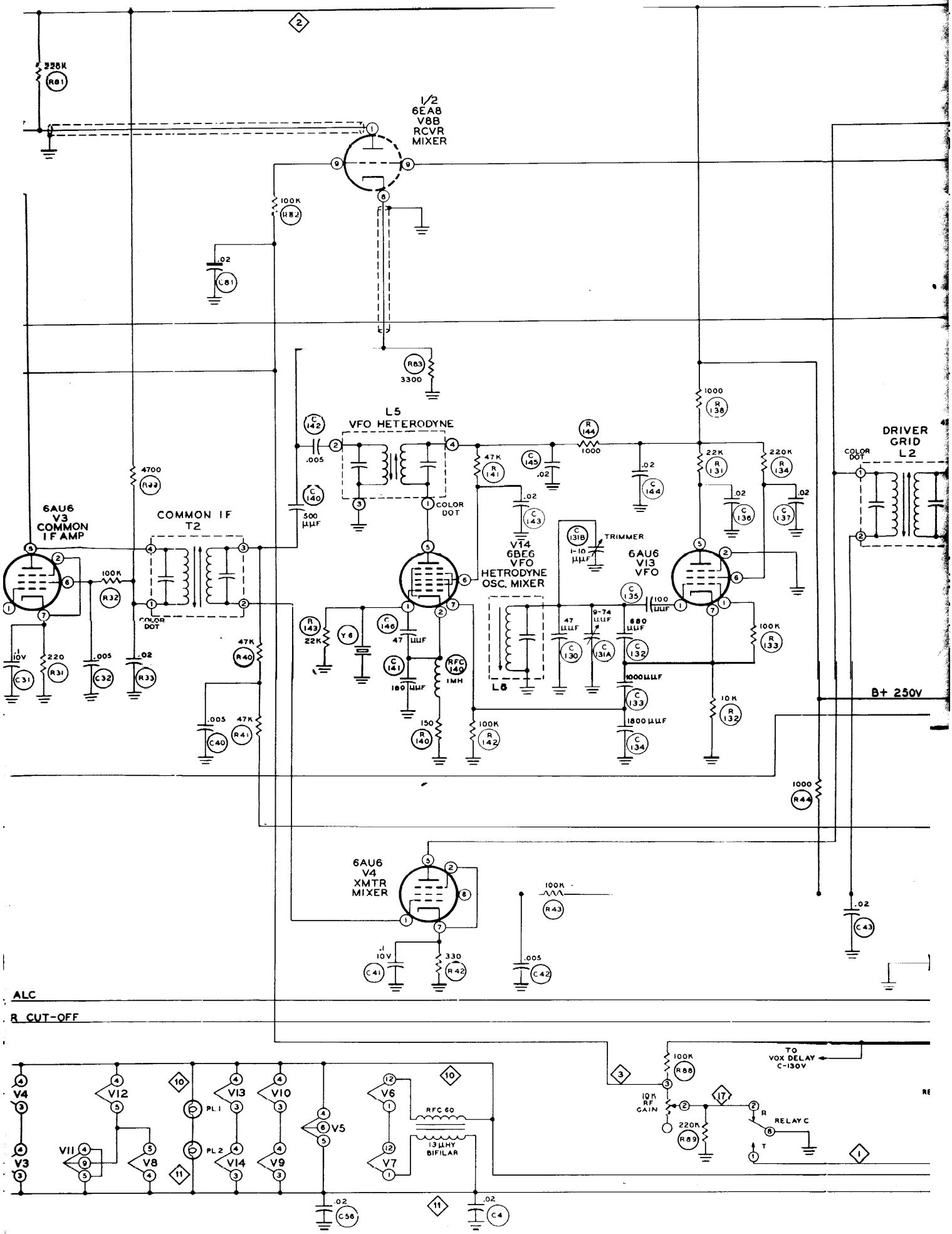
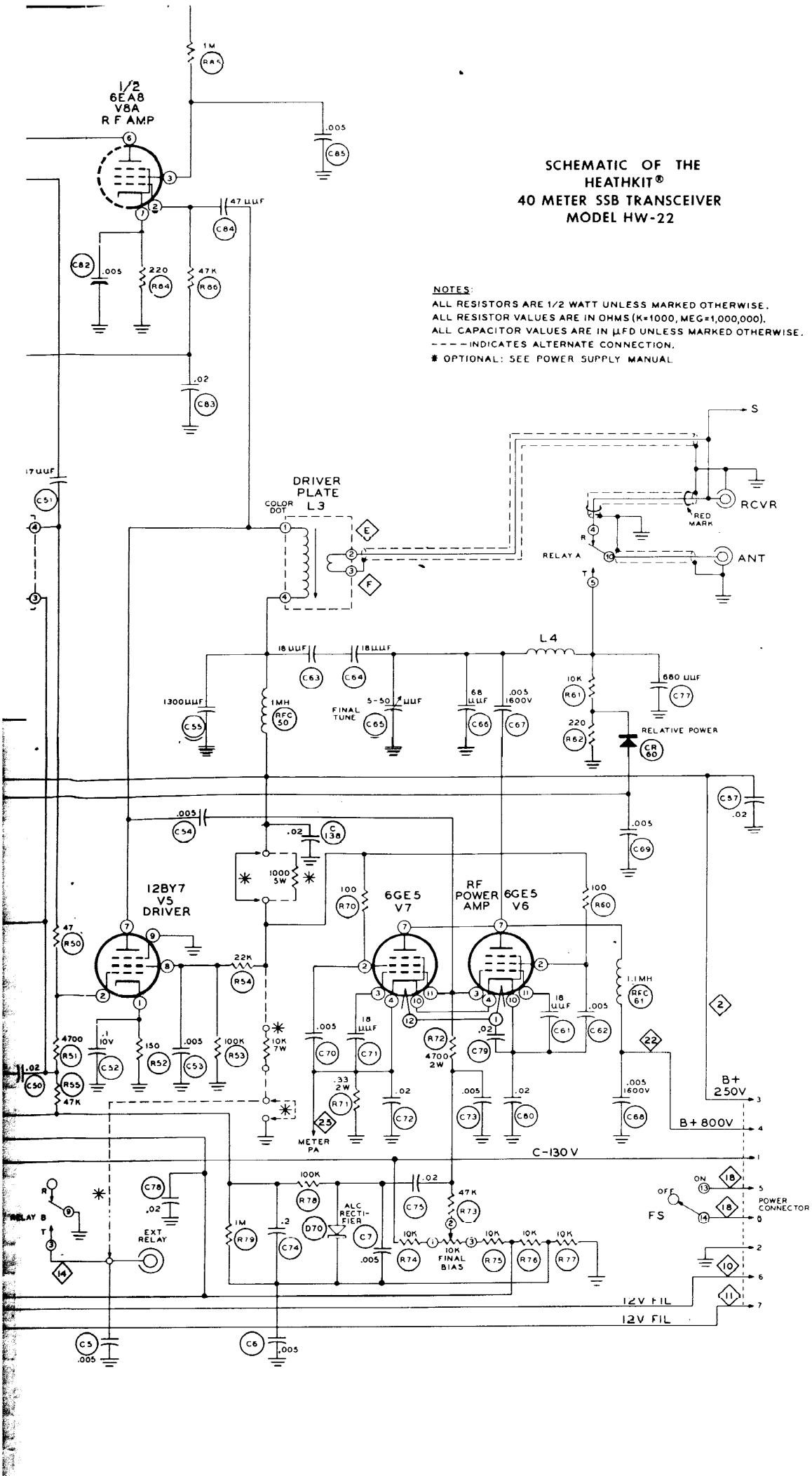

T4
SPKR 8Ω
12K 2W R121
20 350V C121
100K R126
220K R111
.005 C110
47K R110
1/2 6EB8 V12A AF OUTPUT
.005 C124
.02 C122
47K R127
1/2 6EB8 V12B AF AMP
100 µµF C126
1M R129
500 µµF C111
500K AF GAIN
220K R128
.02 C128
D121
AVC RECTIFIERS
D120
.02 C129
1M R80
.005 1600V C100
22K R100
500 µµF C127
2 MH RFC120
1M R123
10 10V C125
1000 R125
1M R122
10 10V C120
100 R120
.02 C123
47K R124
C88 .4 100V
ANTI-TRIP RECTIFIER
D100
100K R101
.02 C101
6AU6 V10 VOX AMP
1M R104
1M R105
NE-2
RELAY
R28 12K 2W
1/2 6EA8 V2B RELAY AMP
1M R106
27
1M R103
220K R102
VOX
1M
500 µµF C103
.02 C104
.03 C105
PTT
VOX
TUNE
OFF
FS-A
.005 C102
22M R107
VOX DELAY
3.3M R108
C-130V
15
220K R11
1M R12
1000 R14
.02 C17
100K R1
22K R2
1/2 6EA8 V1A
6EA8 V1B
.005 C14
MIC GAIN 1M
ADD FOR VOX
MIC
AUDIO
(SHIELD) GROUND
RELAY
10V C12
500 µµF C11
1M R10
.02 C13
.02 C15
500 µµF C16
1000 R15
.4 C18
.02 C19
1M R13
RELAY GROUND
MICROPHONE WITH PUSH-TO-TALK SWITCH
SPRING
MIC
SHELL OF CHASSIS CONNECTOR
MICROPHONE AMP
AF CATHODE FOLLOWER
FUNCTION SWITCH (REAR VIEW)
A
OFF
PTT
VOX
TUNE


B+250V
1/2 12AT7 V11A PRODUCT DETECTOR
RECEIVER IF T3
COLOR DOT
6AU6 V9 RCVR IF AMP
AVC
RCVR CUT-OFF
B+ 250V
1/2 12AT7 V11B CARRIER OSCILLATOR
CRYSTAL FILTER
L1
6AU6 V3 COMMON IF AMP
BIAS SET
OPERATE TUNE
S-METER ADJ
FS-B
FS-C
PA
BALANCED MODULATOR T1
BALANCED MODULATOR
CARRIER NULL
TUNE LEVEL
CALIBRATOR (PULL AF GAIN)
1/2 6EA8 V2A XMTR IF AMP
ALC
XMTR CUT-OFF
L&T DETAIL BOTTOM VIEW
CRYSTAL CALIBRATOR SOCKET (OCTAL)


228K R81
1/2 6EA8 V8B RCVR MIXER
100K R82
.02 C81
R83 3300
L5 VFO HETERODYNE
C142 .005
C140 500 µµF
4700 R39
6AU6 V3 COMMON I F AMP
COMMON I F T2
COLOR DOT
100K R32
.1 10V C31
220 R31
.005 C32
.02 R33
47K R40
.005 47K R41 C40
47K R141
C145 .02
R144 1000
.02 C144
1000 R138
22K R131
220K R134
.02 C136
.02 C137
DRIVER GRID L2
COLOR DOT
.02 C143
V14 6BE6 VFO HETRODYNE OSC. MIXER
C131B TRIMMER 1-10 µµF
6AU6 V13 VFO
C135 100 µµF
R143 22K
Y6
C146 47 µµF
C141 180 µµF
RFC 140 1MH
150 R140
100K R142
47 µµF C130
9-74 µµF C131A
680 µµF C132
1000 µµF C133
1800 µµF C134
100K R133
10K R132
L6
B+ 250V
1000 R44
6AU6 V4 XMTR MIXER
100K R43
.1 10V C41
330 R42
.005 C42
.02 C43
ALC
R CUT-OFF
V4
V3
V12
V11
V8
PL1
PL2
V13
V14
V10
V9
V5
V6
V7
RFC 60
13 µHY BIFILAR
.02 C56
.02 C4
100K R88
10K RF GAIN
220K R89
RELAY C
TO VOX DELAY C-130V

SCHEMATIC OF THE HEATHKIT®
40 METER SSB TRANSCEIVER
MODEL HW-22