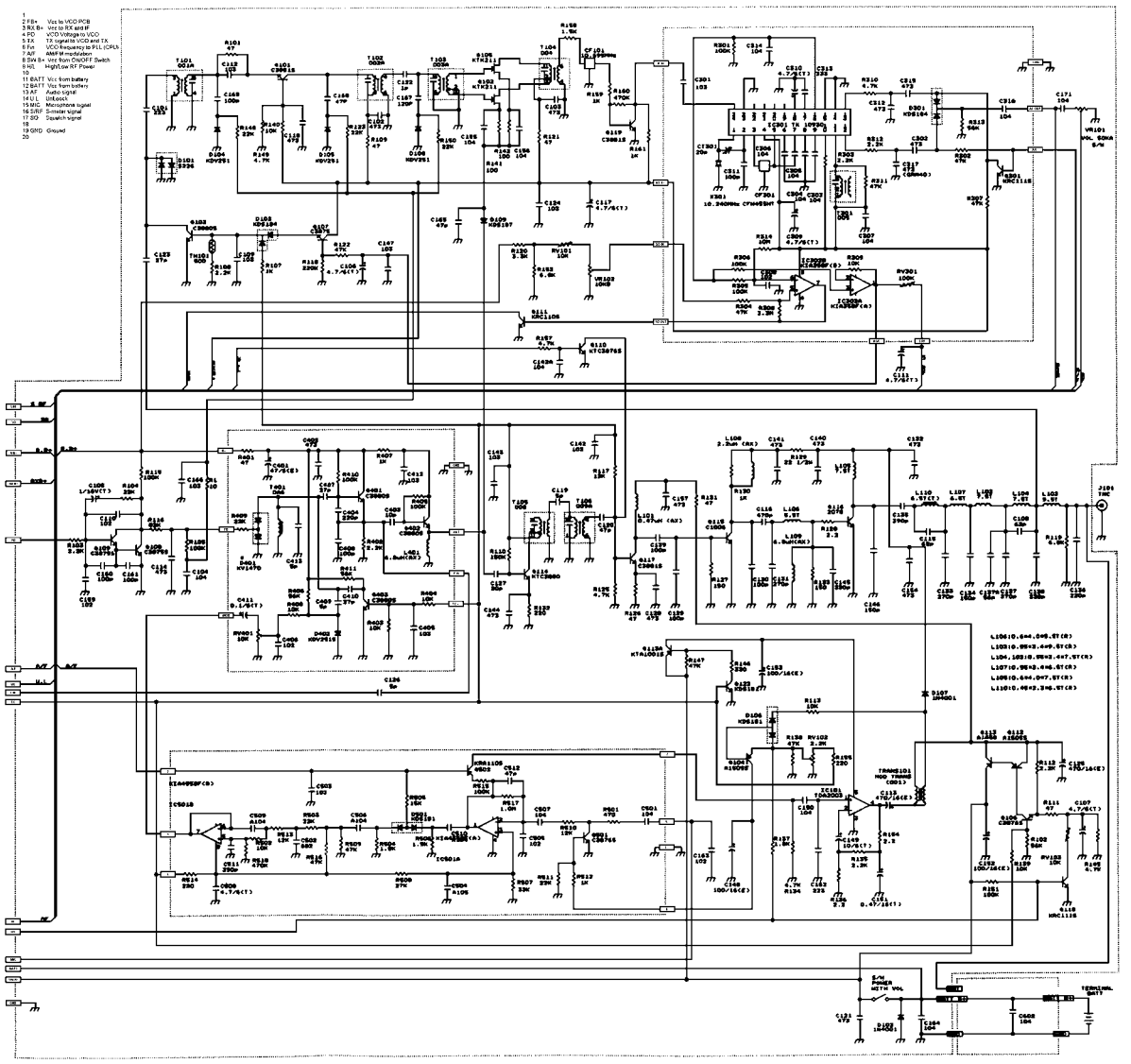
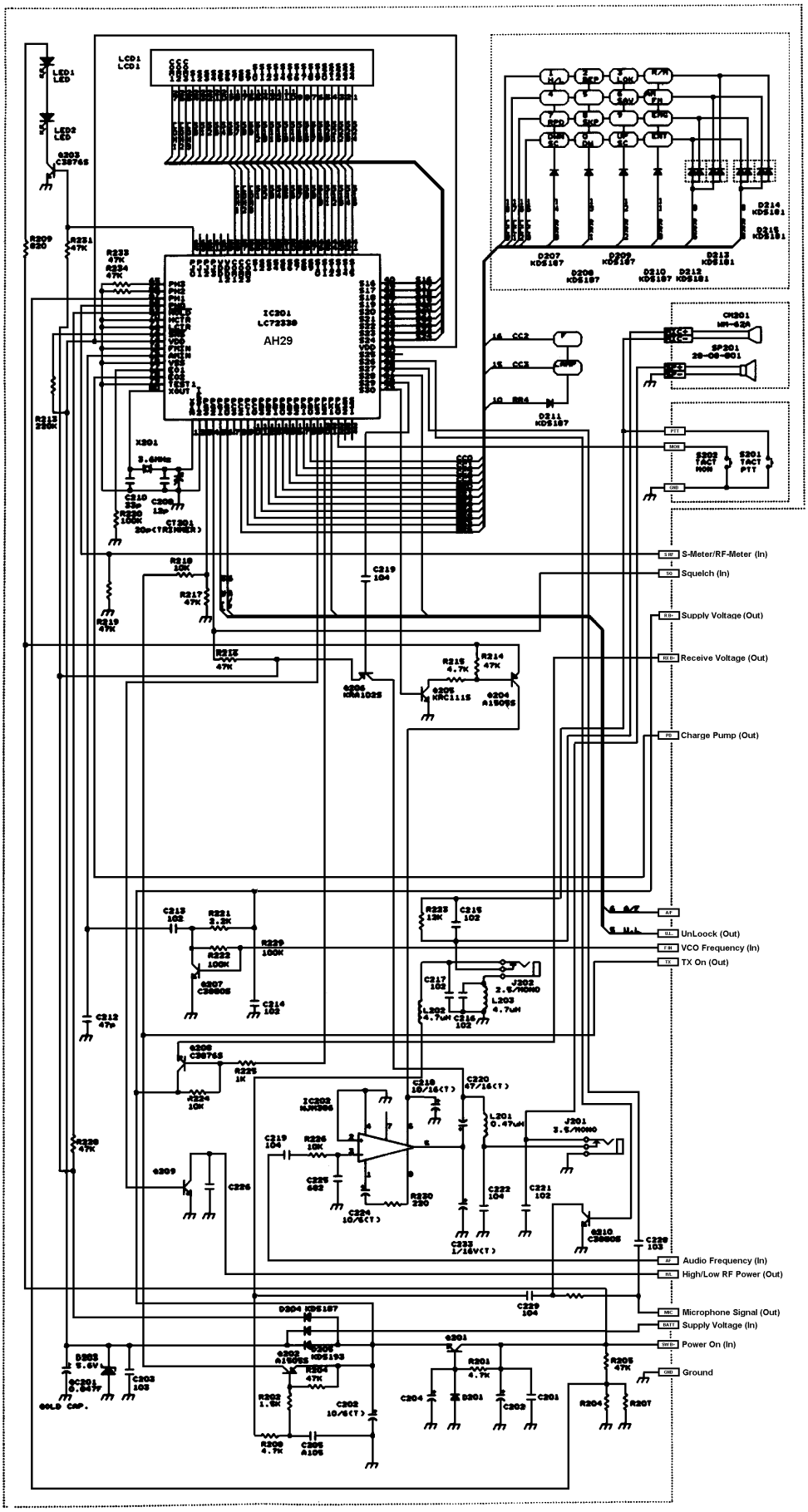
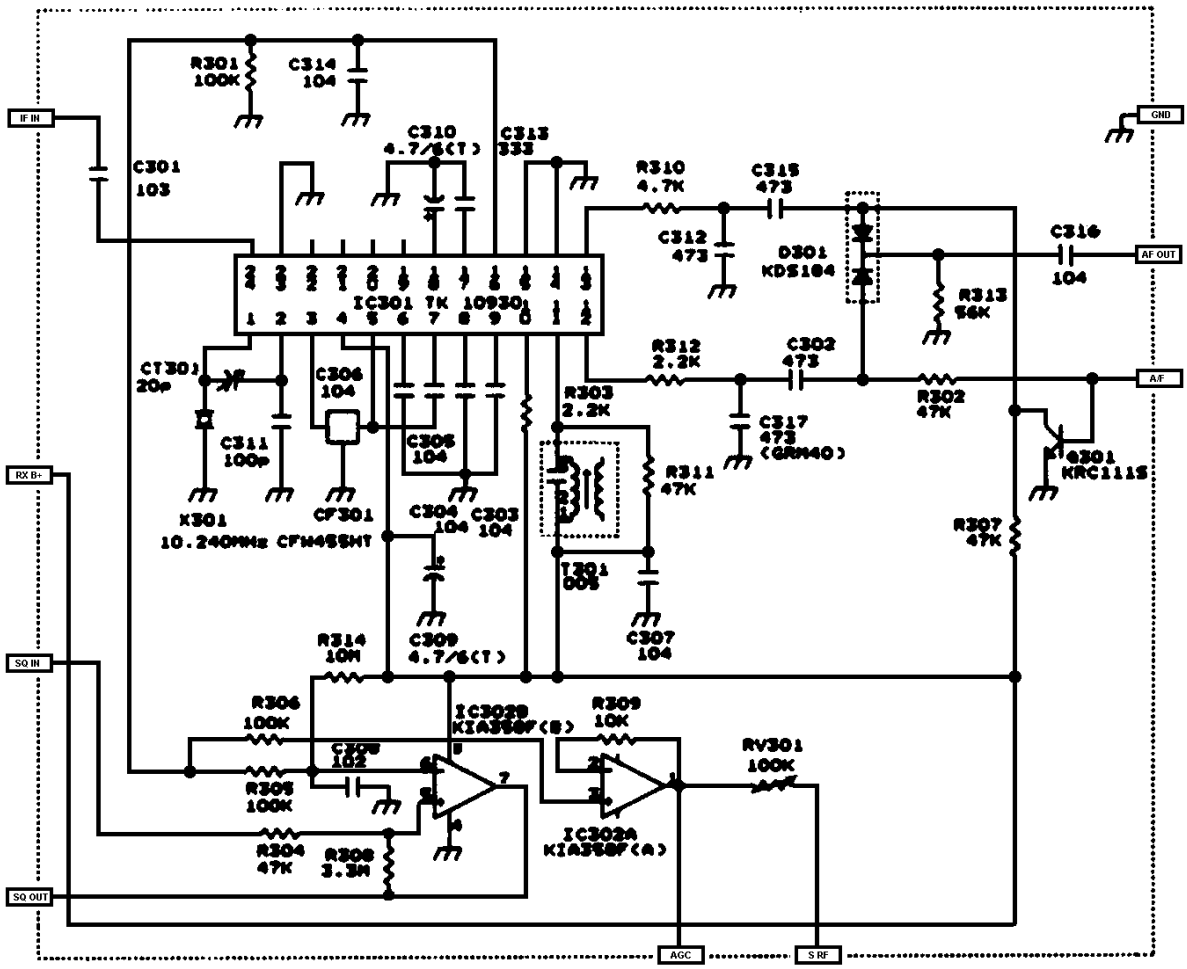
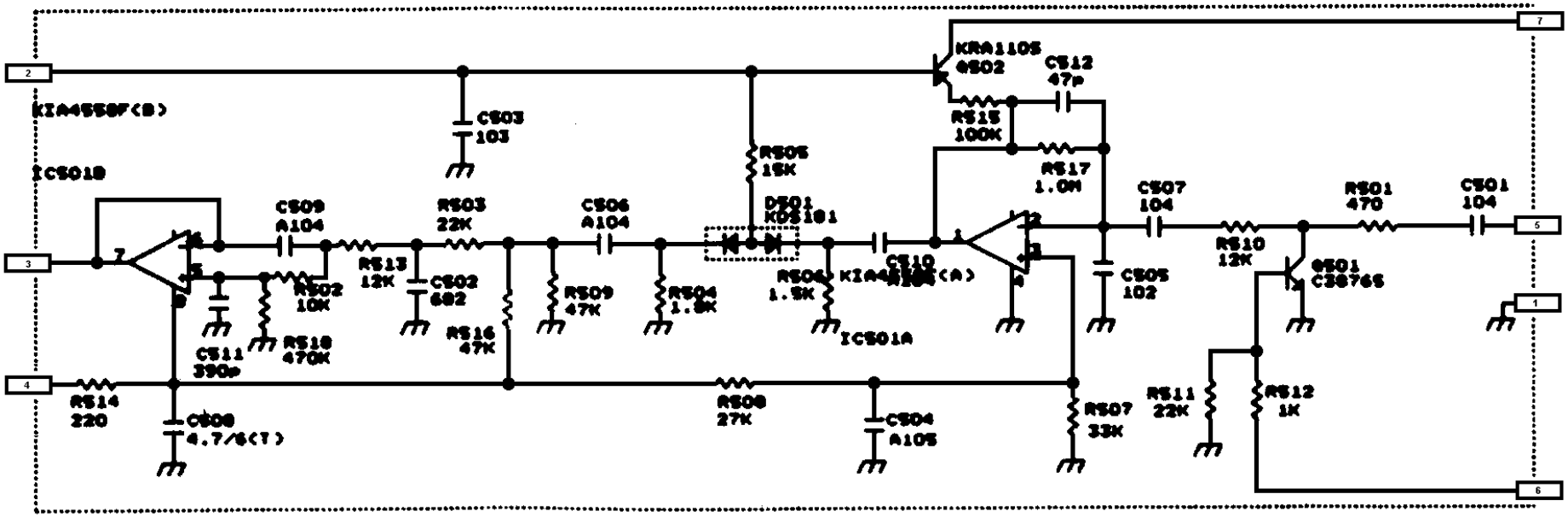
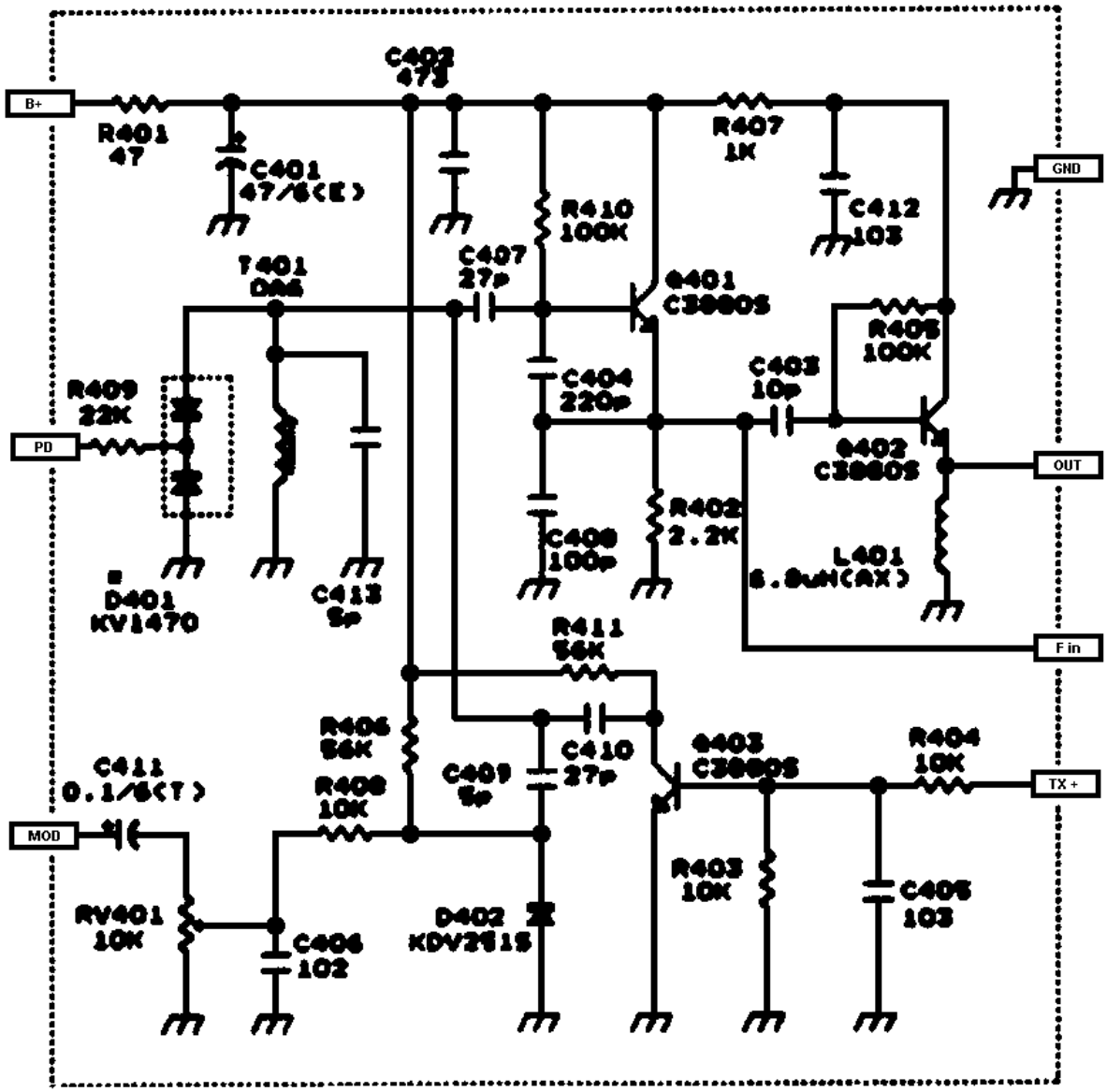
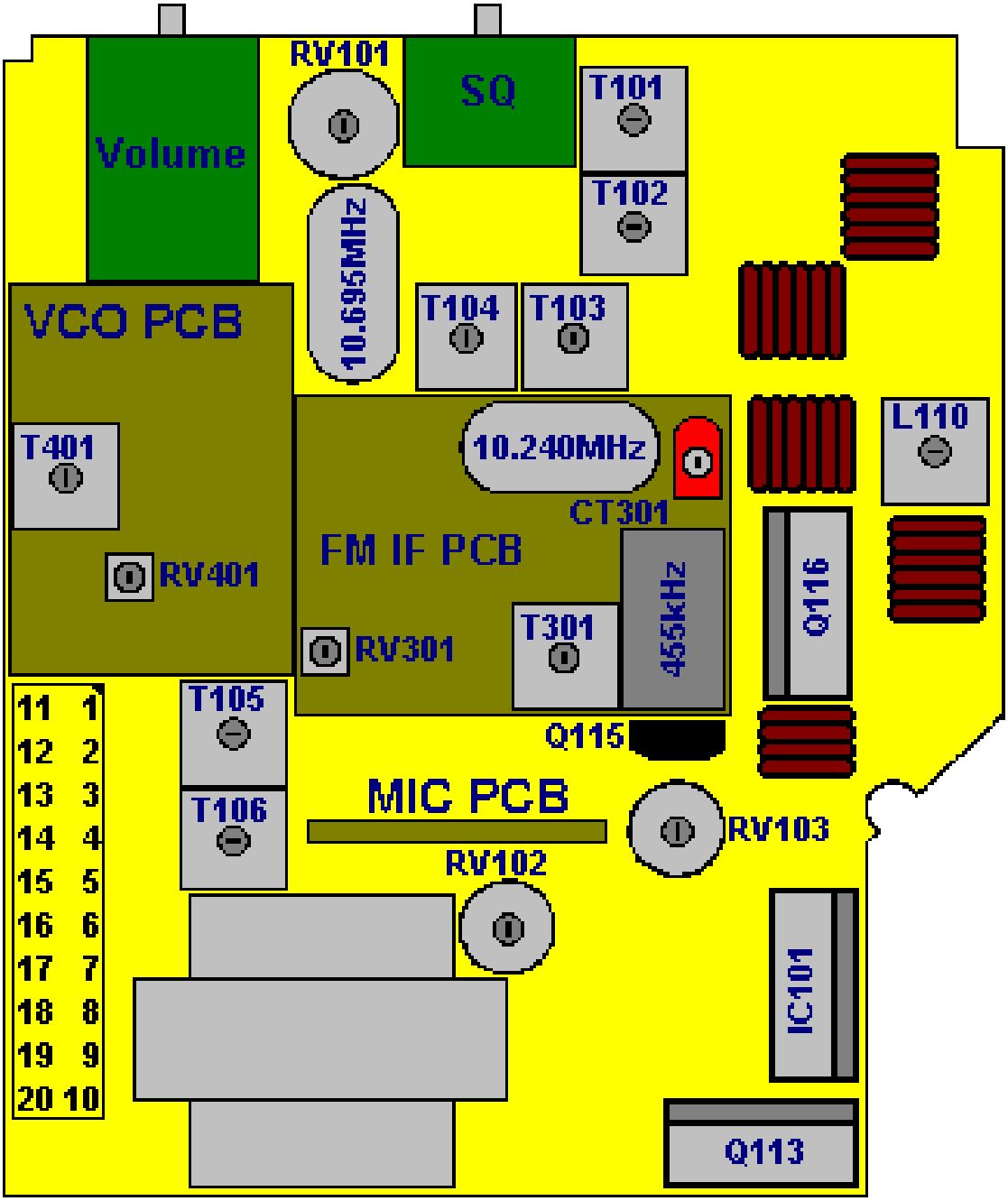

1
2 FB+ Vcc to VCO PCB
3 RX B+ Vcc to RX and IF
4 PD VCO Voltage to VCO
5 TX TX signal to VCO and TX
6 Fm VCO frequency to PLL (OPL)
7 A/F AM/FM modulation
8 SW B+ Vcc from On/OFF Switch
9 HL High/Low RF Power
10
11 BATT Vcc from battery
12 BATT Vcc from battery
13 A/F Audio signal
14 U/L Unlock
15 M/C Microphone signal
16 S/RF S-meter signal
17 SQ Squelch signal
18
19 GND Ground
20
L106:0.6ø4.0ø9.5T(R)
L103:0.9ø3.6ø9.5T(R)
L104,105:0.9ø3.4ø7.5T(R)
L107:0.9ø3.4ø6.5T(R)
L108:0.6ø4.0ø7.5T(R)
L110:0.6ø2.3ø6.5T(R)

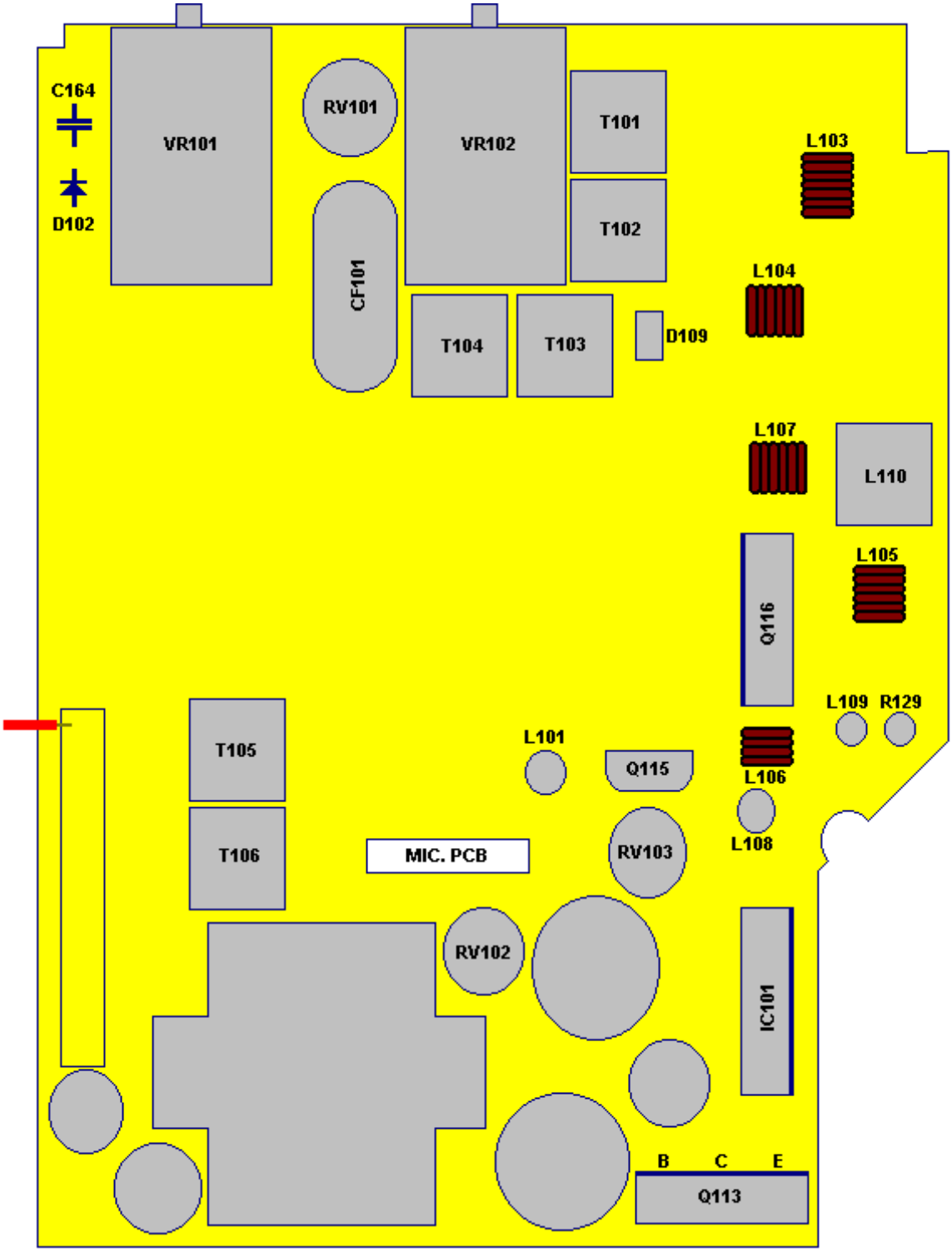

IC201
LC72338
AH29
S-Meter/RF-Meter (In)
Squelch (In)
Supply Voltage (Out)
Receive Voltage (Out)
Charge Pump (Out)
UnLoock (Out)
VCO Frequency (In)
TX On (Out)
Audio Frequency (In)
High/Low RF Power (Out)
Microphone Signal (Out)
Supply Voltage (In)
Power On (In)
Ground

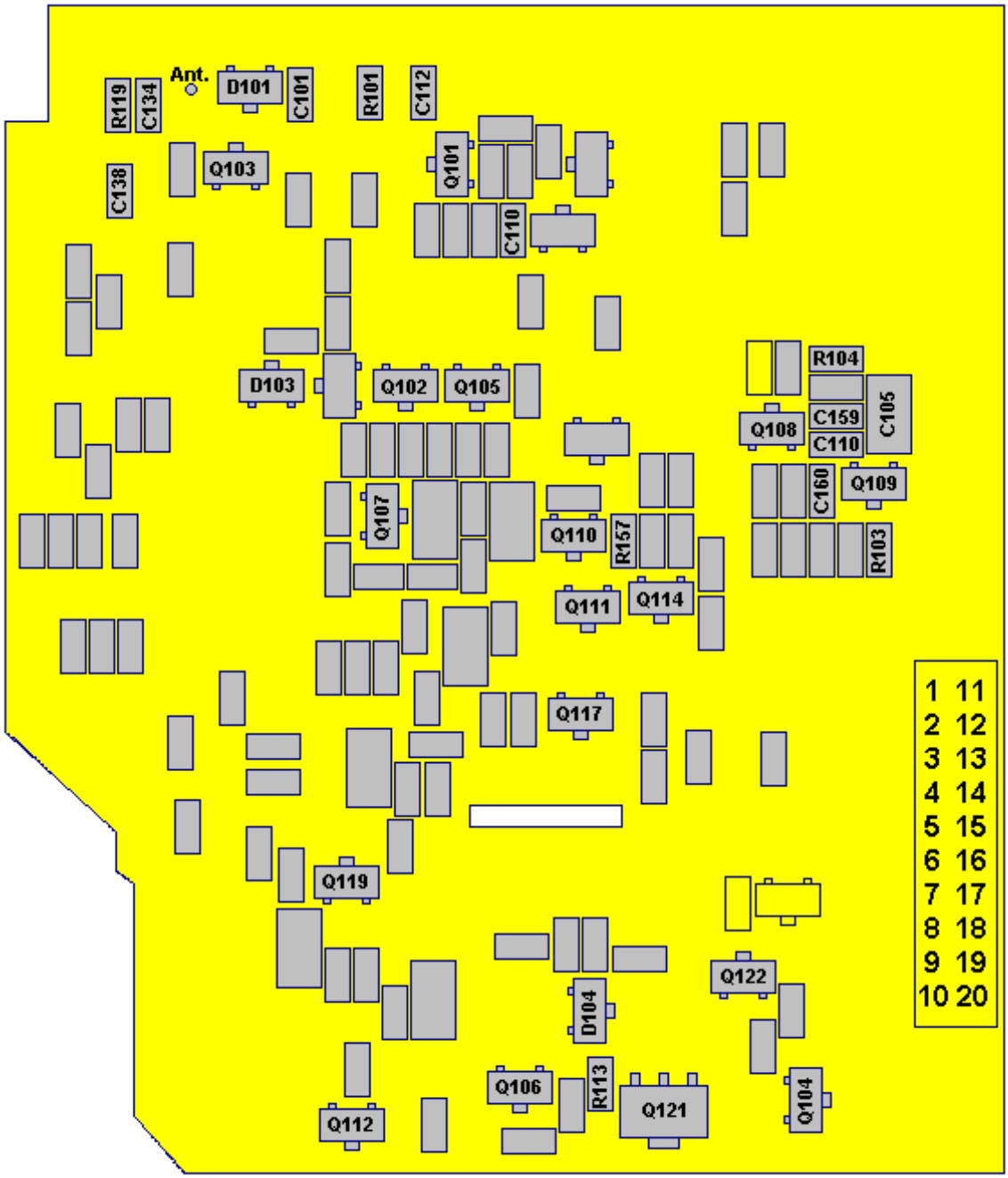

IF IN
GND
R301 100K
C314 104
C310 4.7/6(T)
C313 333
C301 103
R310 4.7K
C315 473
C312 473
D301 KDS184
C316 104
AF OUT
IC301 7K 10930
R313 56K
CT301 20p
C306 104
R312 2.2K
C302 473
A/F
R303 2.2K
C317 473 (GRM40)
R302 47K
C311 100p
C305 104
R311 47K
Q301 KRC111S
RX B+
X301 10.240MHz
CF301 CFM455HT
C304 104
C303 104
T301 005
R307 47K
C307 104
R314 10M
C309 4.7/6(T)
SQ IN
R306 100K
IC302B KIA358F(B)
R309 10K
C308 102
RV301 100K
R305 100K
IC302A KIA358F(A)
R304 47K
R308 3.3M
SQ OUT
AGC
S RF

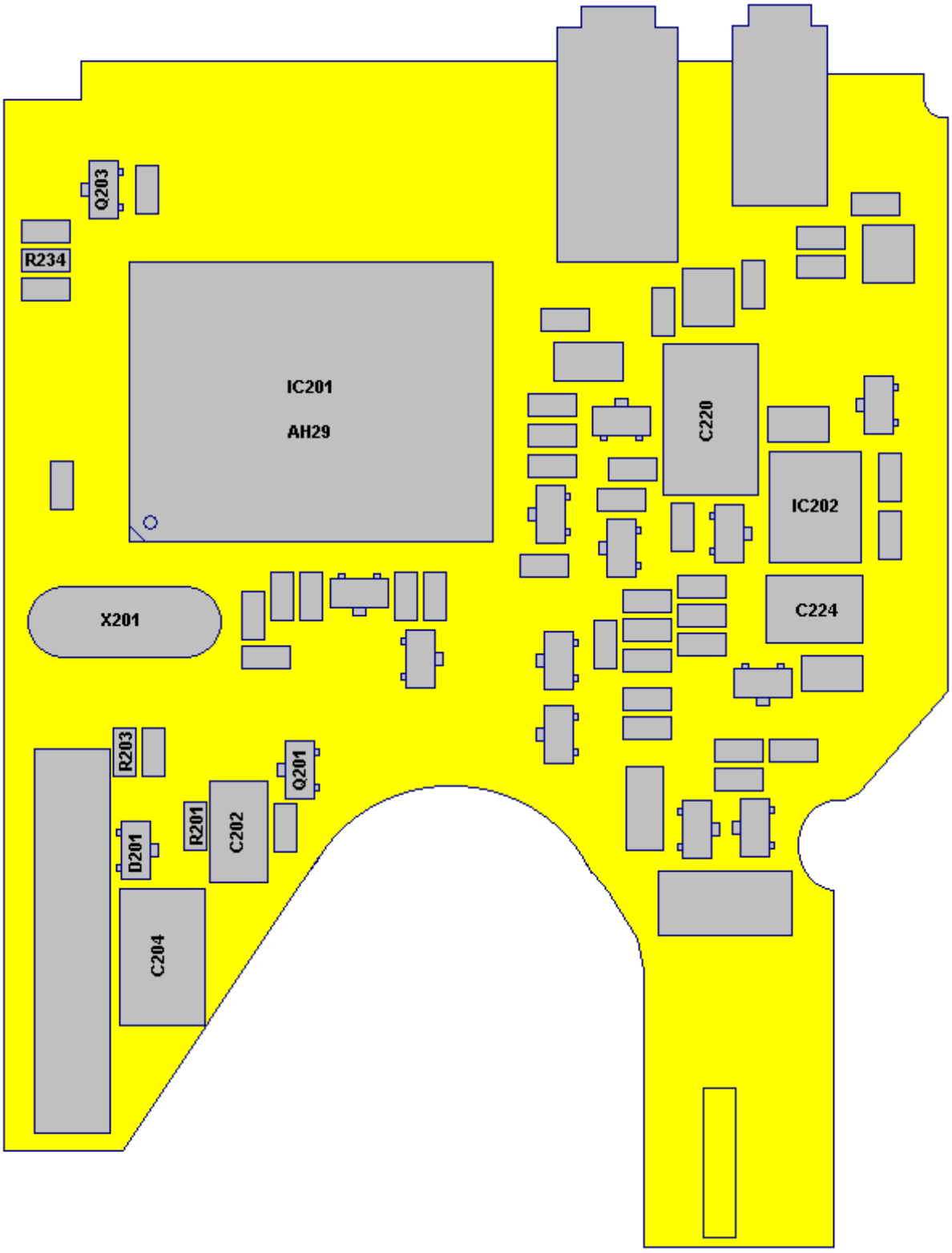

KIA4558F(B)
ICS01B
CS03
103
RS05
15K
KRA110S
QS02
CS12
47p
RS15
100K
RS17
1.0M
DS01
KDS181
CS09
A104
RS03
22K
CS06
A104
RS13
12K
CS02
682
RS16
47K
RS09
47K
RS04
1.5K
RS06
1.5K
KIA4558F(A)
ICS01A
CS10
CS07
104
CS05
102
RS10
12K
RS01
470
CS01
104
QS01
C3876S
RS02
10K
RS18
470K
CS11
390p
RS14
220
CS08
4.7/6(T)
RS08
27K
CS04
A105
RS07
33K
RS11
22K
RS12
1K
1
2
3
4
5
6
7

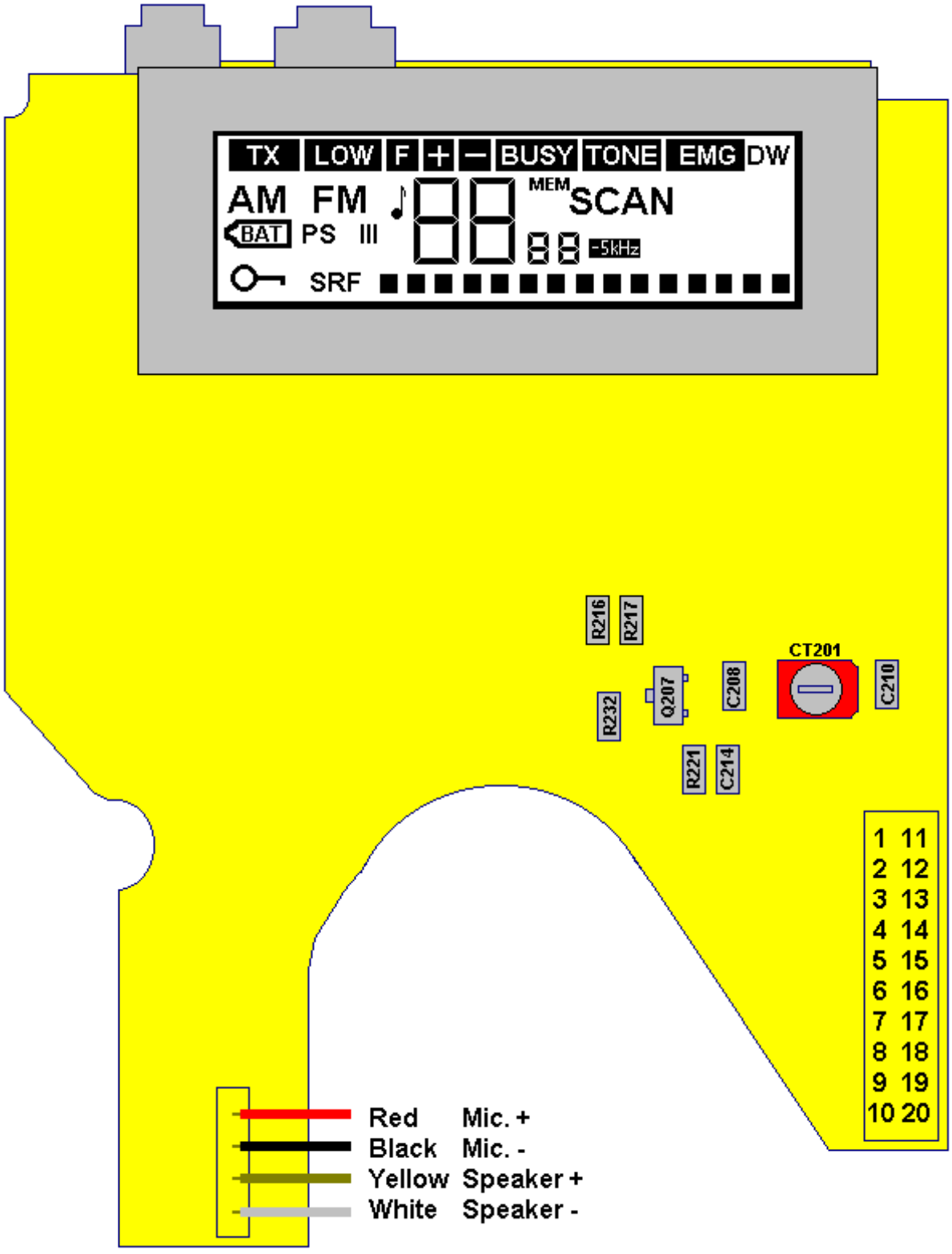

B+
R401
47
C401
47/6(E)
C402
47
R407
1K
GND
R410
100K
C412
103
T401
D04
C407
27p
Q401
C3800S
R405
100K
C404
220p
C403
10p
R409
22K
PD
Q402
C3800S
OUT
R402
2.2K
C408
100p
L401
6.8uH(AX)
D401
KV1470
C413
8p
R411
56K
Fin
R406
56K
C410
27p
Q403
C3800S
R404
10K
TX+
C411
0.1/6(T)
C409
8p
R408
10K
MOD
R403
10K
C405
103
RV401
10K
C406
102
D402
KDV2615

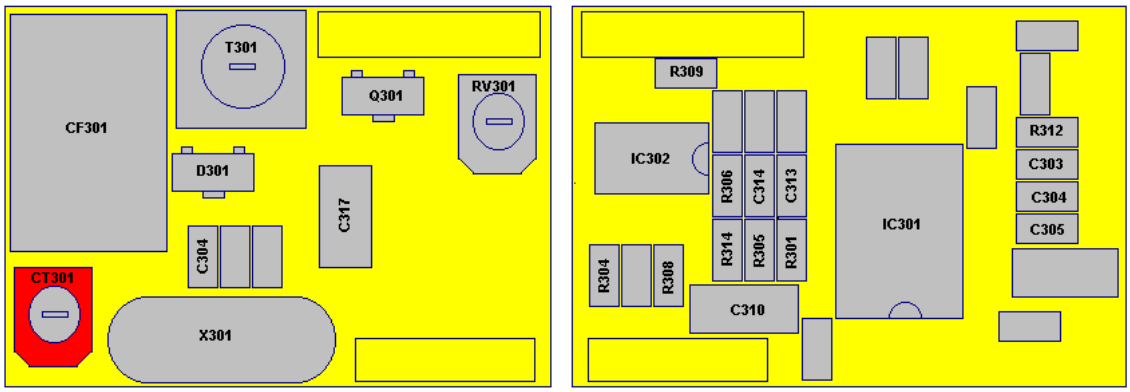

RV101
SQ
Volume
T101
T102
10.695MHz
T104
T103
VCO PCB
T401
10.240MHz
CT301
L110
FM IF PCB
RV401
455kHz
Q116
T301
RV301
T105
Q115
11 1
12 2
13 3
14 4
15 5
16 6
17 7
18 8
19 9
20 10
T106
MIC PCB
RV103
RV102
IC101
Q113


C164
D102
VR101
RV101
VR102
T101
T102
L103
CF101
L104
T104
T103
D109
L107
L110
L105
Q116
L109
R129
T105
L101
Q115
L106
T106
MIC. PCB
RV103
L108
RV102
IC101
B
C
E
Q113

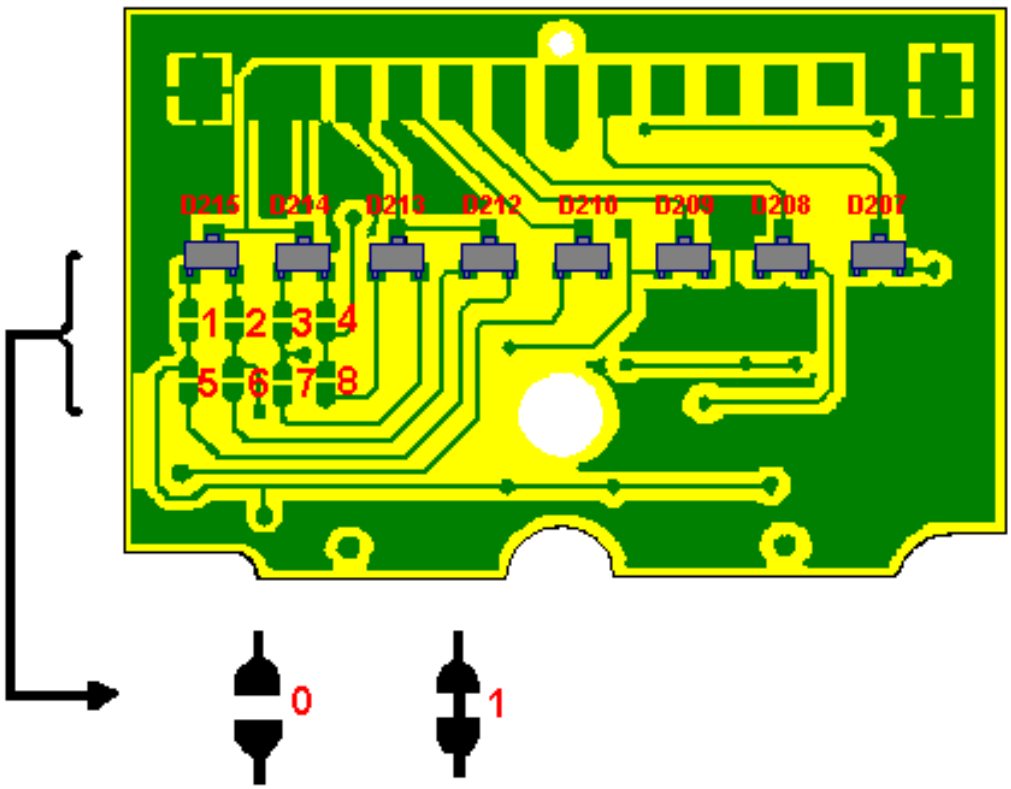

Ant.
R119
C134
D101
C101
R101
C112
C138
Q103
Q101
C110
D103
Q102
Q105
R104
C159
C105
Q108
C110
C160
Q109
Q107
Q110
R157
R103
Q111
Q114
Q117
Q119
Q122
D104
Q106
R113
Q121
Q104
Q112
1 11
2 12
3 13
4 14
5 15
6 16
7 17
8 18
9 19
10 20

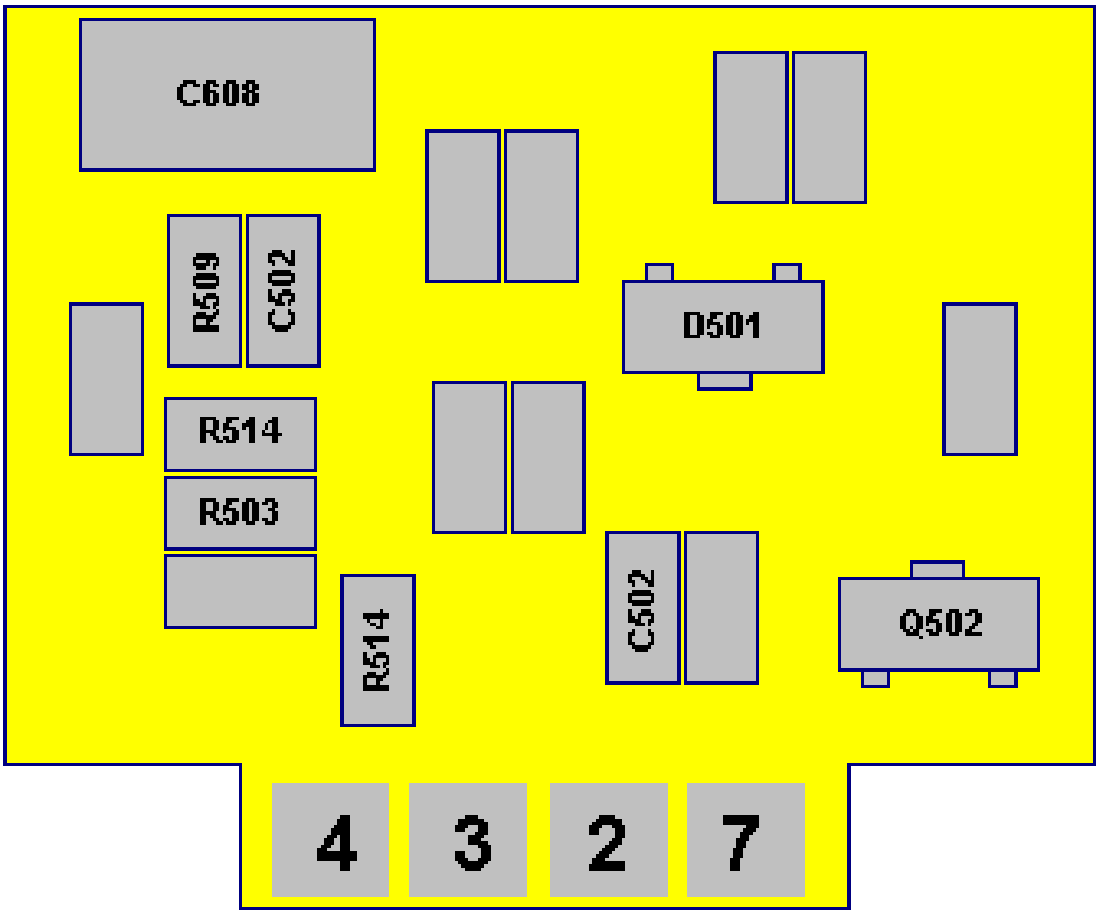

Q203
R234
IC201
AH29
C220
IC202
C224
X201
R203
Q201
R201
C202
D201
C204

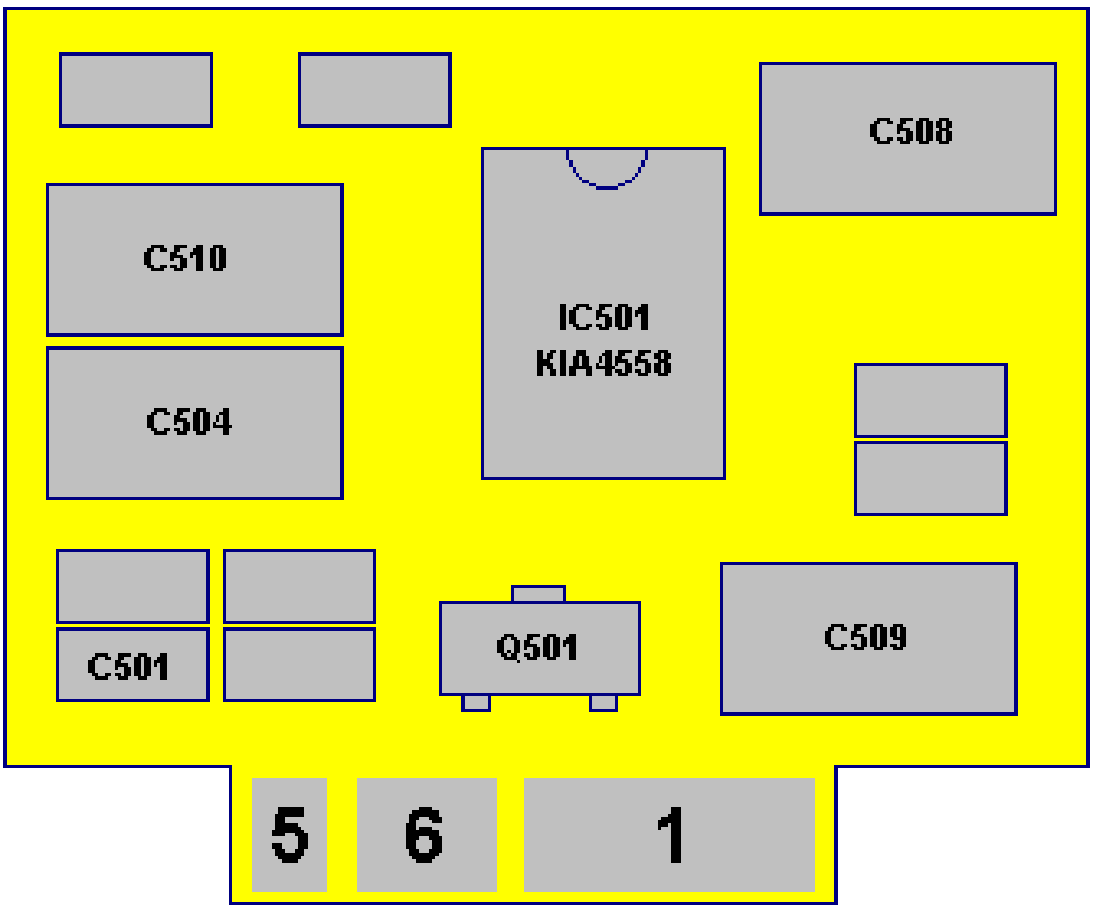

TX
LOW
F
+
−
BUSY
TONE
EMG
DW
AM
FM
MEM
SCAN
BAT
PS
III
-5kHz
SRF
R216
R217
CT201
C210
C208
Q207
R232
R221
C214
1 11
2 12
3 13
4 14
5 15
6 16
7 17
8 18
9 19
10 20
Red Mic. +
Black Mic. -
Yellow Speaker +
White Speaker -

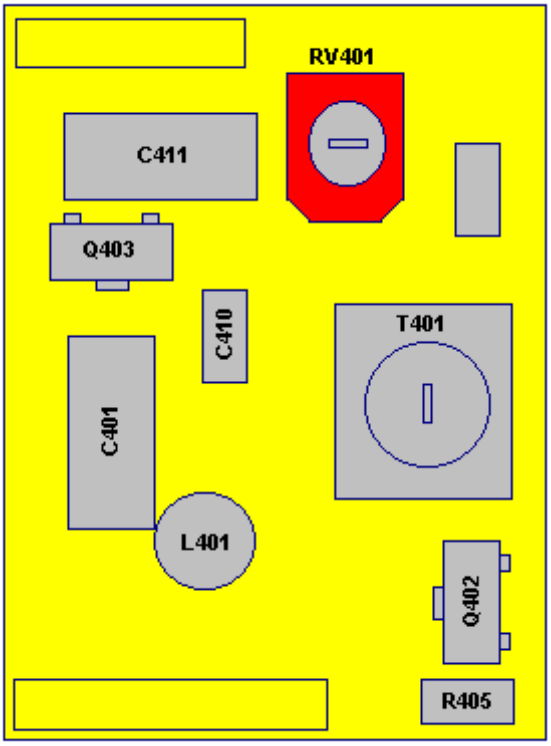

CF301
T301
Q301
RV301
D301
C317
C304
CT301
X301
R309
IC302
R306
C314
C313
R314
R305
R301
R304
R308
C310
IC301
R312
C303
C304
C305

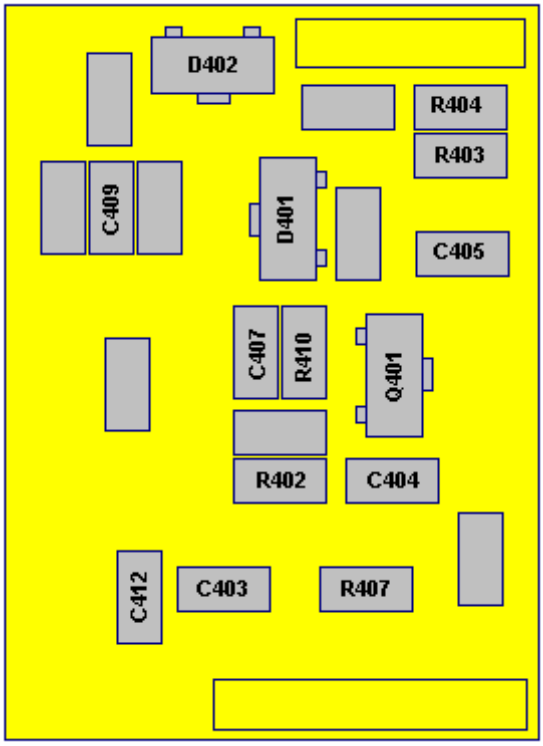
Key-Board




C608
R509
C502
D501
R514
R503
R514
C502
Q502
4
3
2
7


C508
C510
IC501
KIA4558
C504
C501
Q501
C509
5
6
1


RV401
C411
Q403
C410
T401
C401
L401
Q402
R405


D402
R404
R403
C409
D401
C405
C407
R410
Q401
R402
C404
C412
C403
R407