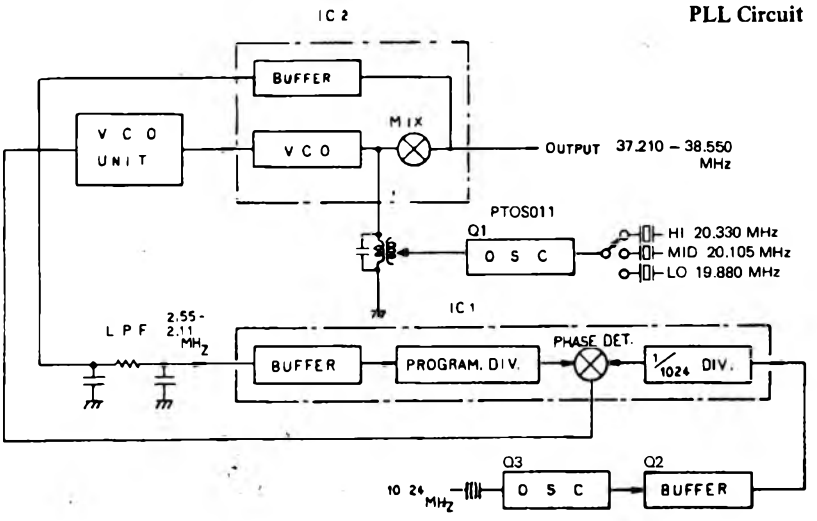
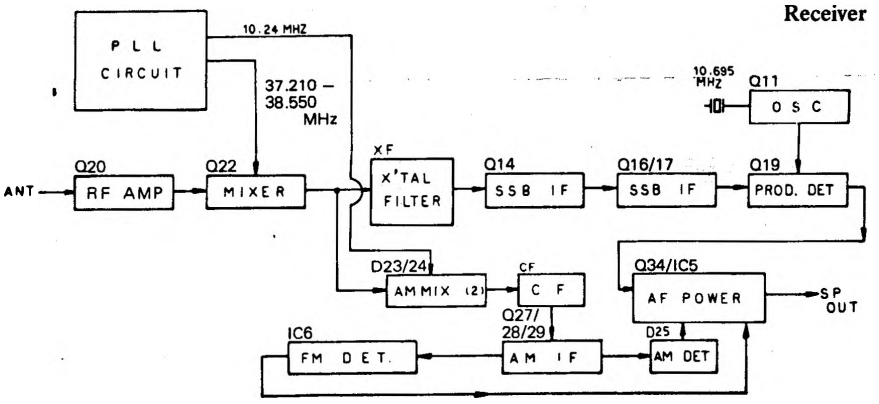
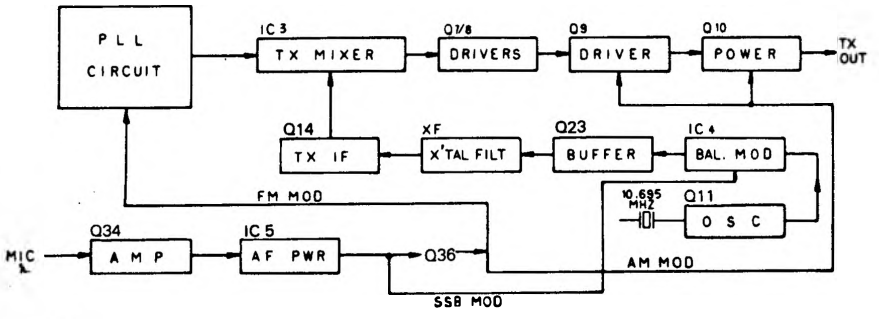
PLL Circuit

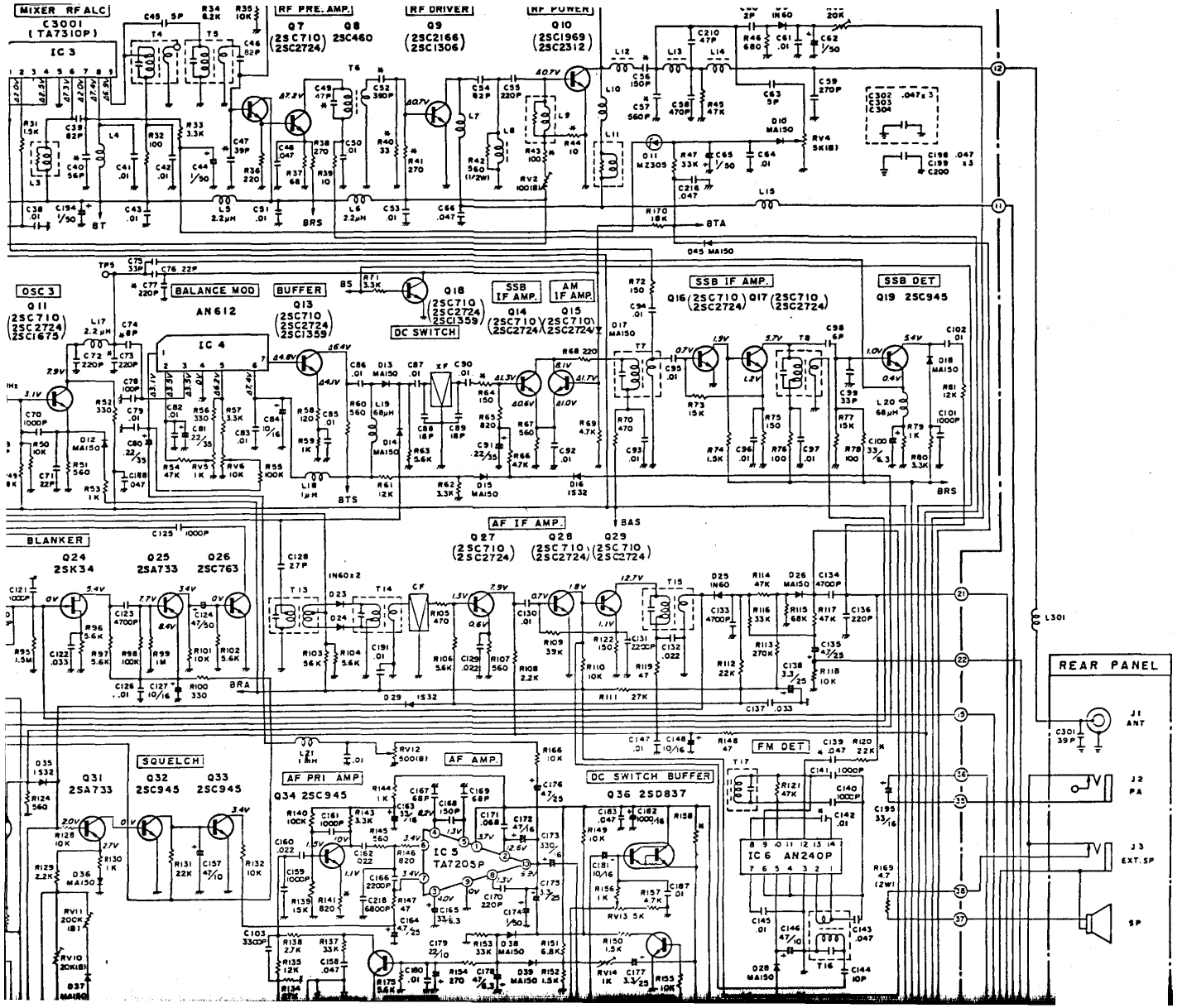


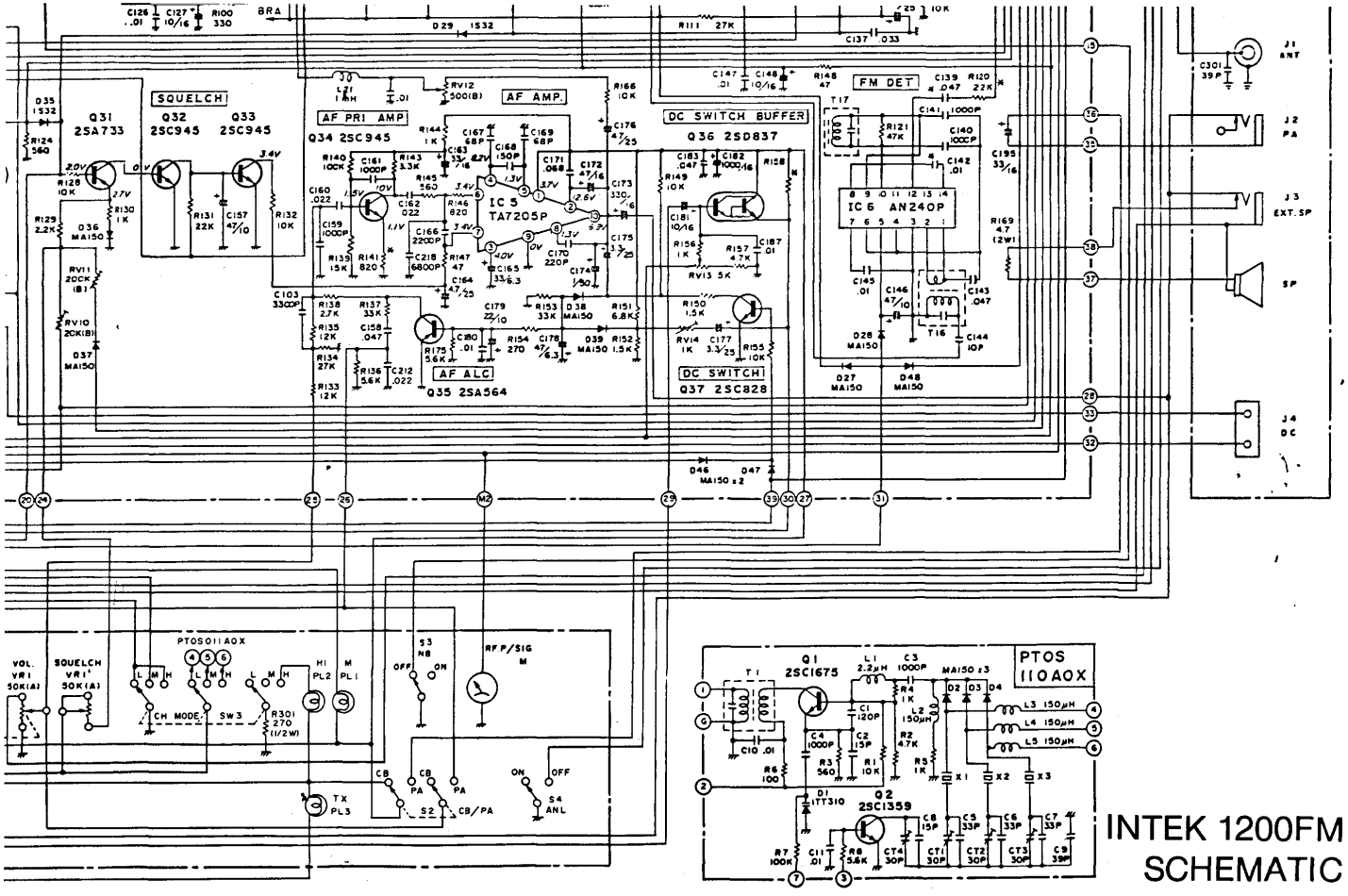
Receiver



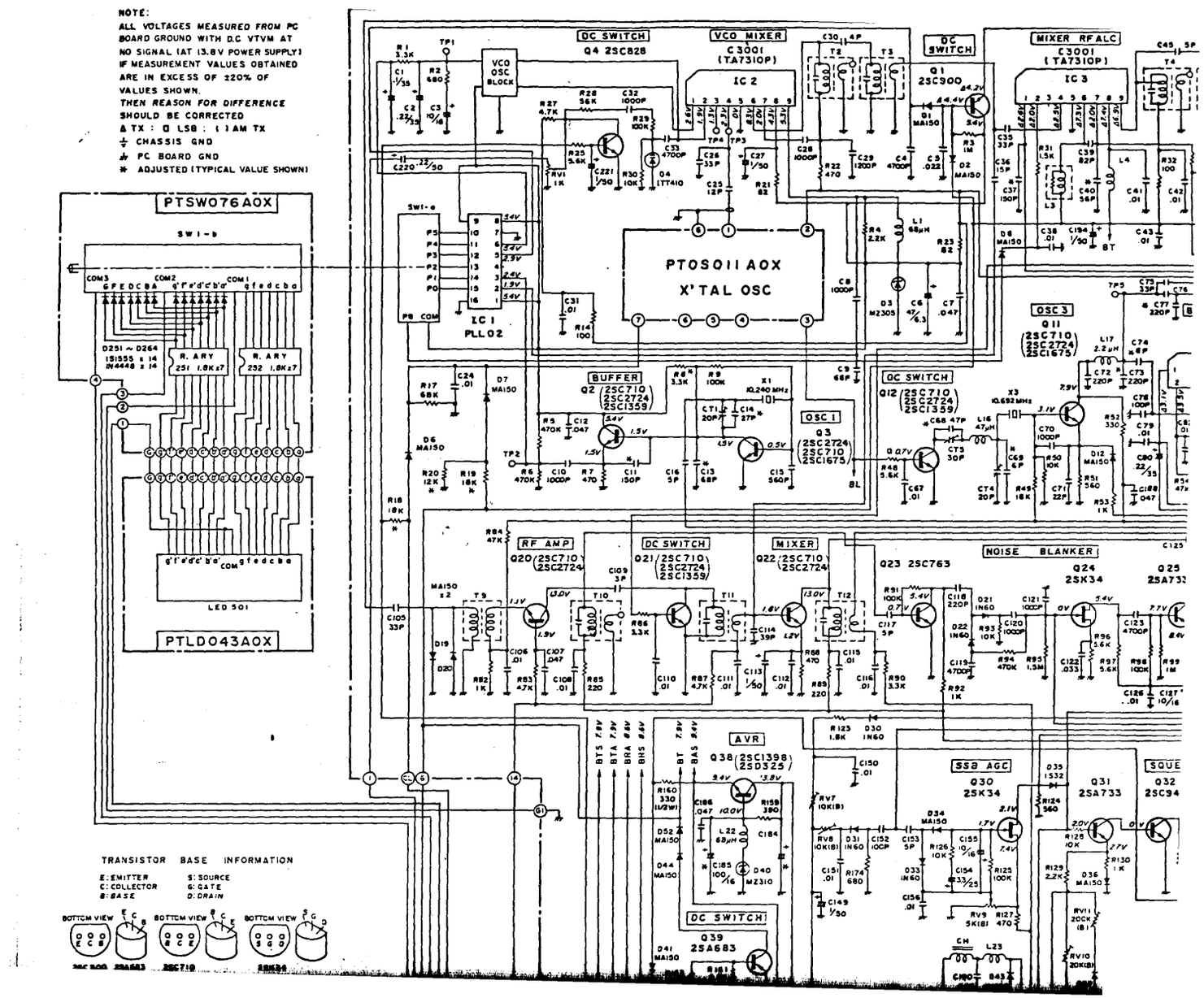
Transmitter

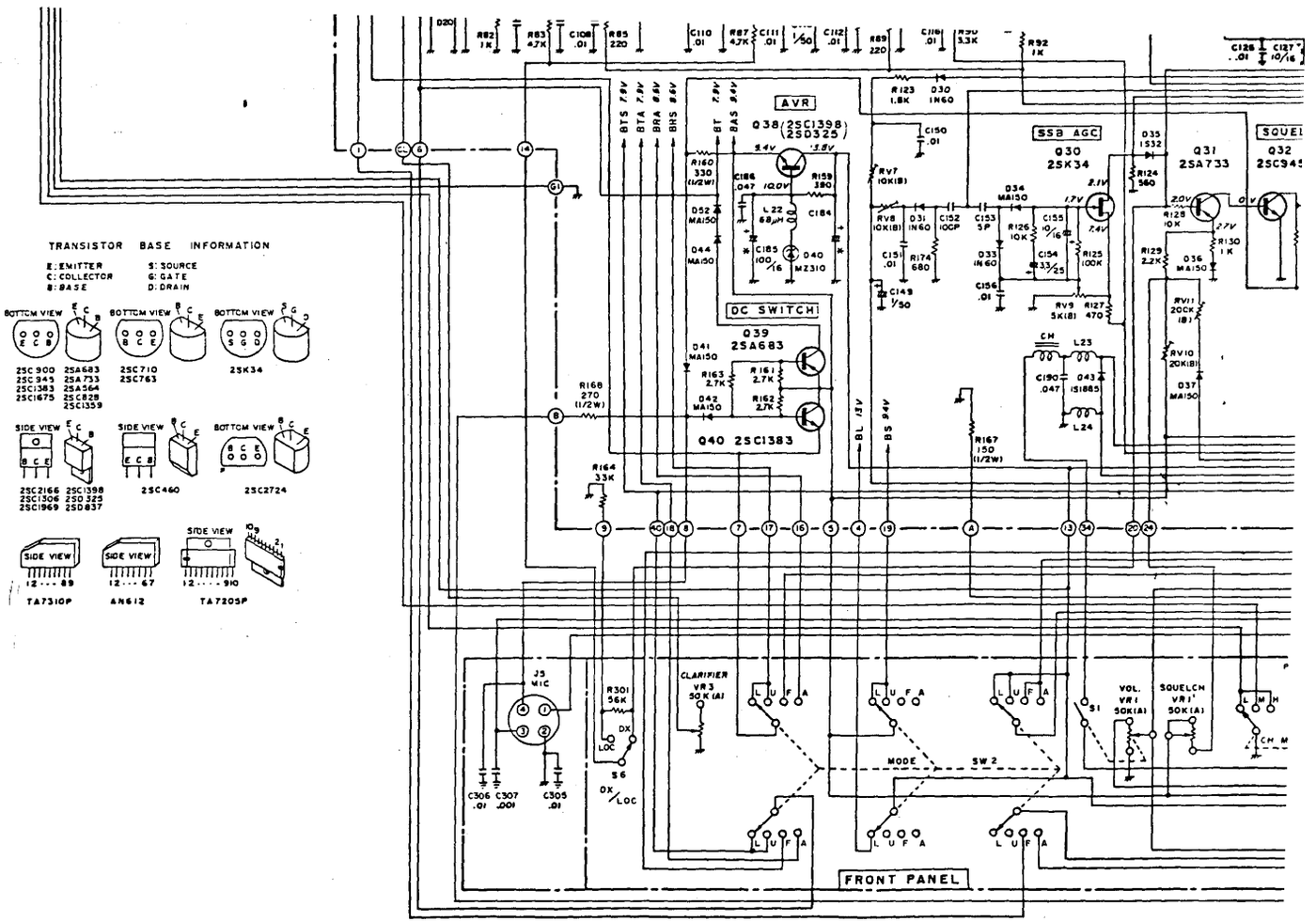



MIXER RF ALC
C3001 (TA7310P)
IC 3
RF PRE. AMP.
Q7 (2SC710) (2SC2724)
Q8 2SC460
RF DRIVER
Q9 (2SC2166) (2SC1306)
RF POWER
Q10 (2SC1969) (2SC2312)
OSC 3
Q11 (2SC710) (2SC2724) (2SC1675)
BALANCE MOD
AN612
BUFFER
Q13 (2SC710) (2SC2724) (2SC1359)
DC SWITCH
Q18 (2SC710) (2SC2724) (2SC1359)
SSB IF AMP.
AM IF AMP.
Q14 (2SC710) (2SC2724)
Q15 (2SC710) (2SC2724)
SSB IF AMP.
Q16 (2SC710) (2SC2724)
Q17 (2SC710) (2SC2724)
SSB DET
Q19 2SC945
IC 4
BLANKER
Q24 2SK34
Q25 2SA733
Q26 2SC763
AF IF AMP.
Q27 (2SC710) (2SC2724)
Q28 (2SC710) (2SC2724)
Q29 (2SC710) (2SC2724)
SQUELCH
Q31 2SA733
Q32 2SC945
Q33 2SC945
AF PRI AMP
Q34 2SC945
AF AMP.
IC 5 TA7205P
DC SWITCH BUFFER
Q36 2SD837
FM DET
IC 6 AN240P
REAR PANEL
J1 ANT
J2 PA
J3 EXT.SP
SP



INTEK 1200FM SCHEMATIC DIAGRAM


NOTE:
ALL VOLTAGES MEASURED FROM PC BOARD GROUND WITH D.C VTVM AT NO SIGNAL (AT 13.8V POWER SUPPLY) IF MEASUREMENT VALUES OBTAINED ARE IN EXCESS OF ±20% OF VALUES SHOWN.
THEN REASON FOR DIFFERENCE SHOULD BE CORRECTED
Δ TX : 0 LSB ; ( ) AM TX
⏚ CHASSIS GND
⏚ PC BOARD GND
* ADJUSTED (TYPICAL VALUE SHOWN)
PTSW076AOX
SW1-a
SW1-b
PTLD043AOX
LED 501
IC 1 PLL02
PTOSO11AOX X'TAL OSC
DC SWITCH Q4 2SC828
VCO MIXER C3001 (TA7310P)
IC 2
DC SWITCH Q1 2SC900
MIXER RF ALC C3001 (TA7310P)
IC 3
OSC 3 Q11 (2SC710 2SC2724 2SC1675)
BUFFER Q2 (2SC710 2SC2724 2SC1359)
OSC 1 Q3 (2SC2724 2SC710 2SC1675)
DC SWITCH Q12 (2SC710 2SC2724 2SC1359)
RF AMP Q20 (2SC710 2SC2724)
DC SWITCH Q21 (2SC710 2SC2724 2SC1359)
MIXER Q22 (2SC710 2SC2724)
Q23 2SC763
NOISE BLANKER
Q24 2SK34
Q25 2SA733
AVR Q38 (2SC1398 2SD325)
SSB AGC
Q30 2SK34
Q31 2SA733
SQUE
Q32 2SC94
DC SWITCH Q39 2SA683
TRANSISTOR BASE INFORMATION
E: EMITTER C: COLLECTOR B: BASE
S: SOURCE G: GATE D: DRAIN
BOTTOM VIEW
2SC 900
2SA683
2SC710
2SK34


TRANSISTOR BASE INFORMATION
E: EMITTER
C: COLLECTOR
B: BASE
S: SOURCE
G: GATE
D: DRAIN
BOTTOM VIEW
2SC900 2SC945 2SC1383 2SC1675
2SA683 2SA733 2SA564 2SC828 2SC1359
2SC710 2SC763
2SK34
SIDE VIEW
2SC2166 2SC1306 2SC1969
2SC1398 2SD325 2SD837
2SC460
2SC2724
TA7310P
AN612
TA7205P
AVR
Q38(2SC1398) 2SD325
SSB AGC
Q30 2SK34
Q31 2SA733
DC SWITCH
Q39 2SA683
Q40 2SC1383
CLARIFIER VR3 50K(A)
VOL. VR1 50K(A)
SQUELCH VR1' 50K(A)
MODE SW2
FRONT PANEL

PC Board Detail

Main Board