VOLTAGES MEASURED FROM PC BOARD
ENTERED WITH DC VTVM AT NO SIGNAL
A 13.8V POWER SUPPLY IS MEASUREMENT
VALUES OBTAINED ARE IN EXCESS OF ±20%
OF VALUES SHOWN. WHEN REASON FOR
DIFFERENCE SHOULD BE CORRECTED
(-) : D LSB, ( ) : AM TX
⏚ : CHASSIS GND ⏚ : PC BOARD GND
ADJUSTED (TYPICAL VALUE SHOWN)

PTSW146AOX

PTLD091AOX

PTBM131A4X

PTSR021AOX

REAR PANEL

VCO MIXER
IC 2
TA7310P

MIXER RF AGC
IC 3
TA7310P

RF AMP
Q3 (2SC1675) (2SC2724)

RF DRIVER
Q7 (2SC2166) (2SC1306)

RF POWER
Q8 (2SC1969) (2SC2050)

S.S.B AGC
Q17 (2SK34) (2SK128)

DC SWITCH
Q4 (2SC945) (2SC828)

OSC 2
Q2 2SC1675

OSC 1
Q1 2SC1675

IC 1
PLL02

DC SWITCH Q3
(2SC2724, 2SC1675)

OSC 3
Q9 (2SC1675) (2SC2724)
Q10 (2SC1675) (2SC1359)

DC SWITCH
Q13 2SC828

S.S.B IF AMP
Q11

A.M IF AMP
Q12 (2SC2724) (2SC710)

IC 4 AN612

S.S.B IF AMP
Q14 Q15 (2SC2724) (2SC710)

S.S.B DET
Q16 2SC945

RF AMP
Q18 (2SC1675) (2SC2724) (2SC1359)

MIXER
Q19 (2SC1675) (2SC1359) (2SC2724)

MIXER
Q23 (2SC1675) (2SC2724)

A.M IF AMP
Q24 (2SC2724) (2SC710)
Q25 (2SC2724) (2SC710)

NOISE BLANKER
Q20 (2SC1359) (2SC1675)
Q21 (2SA733) (2SA564)
Q22 (2SC2724) (2SC1675)

AVR
Q36 2SD325

SQUELCH
Q26 (2SA733) (2SA564)
Q27 (2SC828) (2SC945)

AF PRE AMP
Q28 (2SC945) (2SC900)
Q29 (2SC945) (2SC900)

AF AMP
IC 6

DC SWITCH BUFFER
Q30 2SD837

FM DET

IC 5 AN240

DC SWITCH
Q33 2SA683

AF ALC
Q32 (2SA733) (2SA564)

DC SWITCH
Q31 (2SC828) (2SC945)

Q35 (2SC945) (2SC828)
Q34 2SC1383

TRANSISTOR BASE INFORMATION
E EMITTER S SOURCE
C COLLECTOR G GATE
B BASE D DRAIN

2SC675 2SC828 2SC1359 2SA564 2SC945 2SA683
2SC710
2SK34
2SC2724
2SK128
2SC1306 2SC945 2SC2090 2SC2166 2SC1307 2SD325
SIDE VIEW
BOTTOM VIEW
*A7310P
AN612
*A7140

MIC UNIT

FRONT PANEL

SELECTIVE CALL
RED GREEN
WHITE BLACK
ORANGE BLUE

Q1 2SA733 Q2 2SC945
PTLD050AOX