PTBM027A0X

E0-0681-C-026

BUFFER Q103 (2SC710 2SC829 2SC839)
P.L.L MIXER Q102 (2SC710 2SC829 2SC839)
V.C.O. Q101 2SC710
BUFFER Q108 (2SC1359 2SC1047)
TRANSMIT MIXER Q110 (2SC710 2SC1687)
PRE-DRIVER Q111 (2SC1687 2SC1688 2SC1215)
DRIVER Q112 (2SC1760 2SC1957)
RF PWR AMP Q113 (2SC1306 2SC1816 2SC1678)
OFFSET OSC Q109 2SC710
A.V.R Q106 2SC1318
TRANSMIT SWITCH Q107 2SA719
REFERENCE OSC Q117 2SC710
CH. SELECTOR
P.L.L. LSI IC 101
9.51MHz OSC Q105 (2SC710 2SC829 2SC839)
BUFFER Q104 (2SC710 2SC829 2SC839)
RF AMP Q114 (2SC784 2SC1047 2SC1359)
1st RECEIVE MIXER Q115 (2SC710 2SC1359)
2nd RECEIVE MIXER Q116 (2SC710 2SC829 2SC839)
2nd IF, 1st STAGE AMP Q118 (2SC710 2SC829 2SC839)
2nd IF 2nd STAGE AMP Q119 (2SC710 2SC829 2SC839)
IC 102 TA7205P BA521
TRANSMIT AUDIO A.L.C. Q122 (2SC945 2SC828 2SC372)
RANGE BOOST Q121 (2SC945 2SC828 2SC372)
AUDIO AMP.
SQUELCH SWITCH Q120 (2SC945 2SC828 2SC372)

HAND SET UNIT
SP. MIC. T R T R

MIC UNIT
MIC T R T R

REAR PANEL
J1 ANT
J4 REMOTE SP JACK.
J3 EXT. SP
SP
F 2A RED + BLACK − TO 13.8VDC POWER SUPPLY

SIDE PANEL MIC
FRONT PANEL ON/OFF VOLUME SQUELCH S/RFP METER

NOTE
Δ VOLTS AT TRANSMIT CONDITION
ALL VOLTAGES MEASURED FROM COMMON NEGATIVE CHASSIS GND WITH D.C VTVM AT NO SIGNAL (AT 12.6V POWER SUPPLY)
IF MEASUREMENTS OBTAINED ARE IN EXCESS OF +20% OF VALUES SHOWN THEN REASON FOR DIFFERENCE SHOULD BE CORRECTED
⏚ CHASSIS GND ⏦ BATTERY NEGATIVE
* VARIABLE

SEMICONDUCTOR TERMINAL CONNECTION (BOTTOM VIEW UNLESS OTHERWISE NOTED)

2SA719 2SC828 2SC829 2SC839 2SC945 2SC1318 2SC1359 2SC1047 — E C B
2SC710 — B C E
2SC784 2SC372 — E C B
2SC1687 — C E B
2SC1306 2SC1816 2SC1678 — SIDE VIEW — B C E
2SC1760 — SIDE VIEW — B C E
2SC1957 — SIDE VIEW — E C B
TA7205P — SIDE VIEW — 12 ------ 9 10
BA521 — SIDE VIEW — 12 ------ 9 10

E : EMITTER
C : COLLECTOR
B : BASE

Figure 4-3. Schematic Diagram, Model 681