EXTERNAL ANTENNA SOCKET (SO601)
50 ohms
C327 100P
L306

MAIN PWB

RECEIVER

Q6 2SC460 or 2SC394
2nd MIXER

Q1 2SC1675 or 2SC784
RF AMP

Q2 2SC1675 or 2SC394
1st MIXER

IC-1
IF AMP & DET
(RH-IX1030AFZZ)

IC-201 OSC & DIVIDER
IC-202 PHASE COMPARATOR
(RH-IX1039AFZZ)
(RH-IX1038AFZZ)

Q201 2SC945 or 2SC373
GATE

Q3 2SC945 or 2SC373
AGC AMP.

Q4 2SC945 or 2SC373
AGC AMP.

Q202 2SC945 or 2SC394
BUFFER

Q203 2SK61 or 2SK49
V.C.O.

Q207 2SD471 or 2SC1741
VOLTAGE REGULATOR

Q204 2SC945 or 2SC373
BUFFER

Q205 2SC945 or 2SC373
MIXER

Q206 2SK61 or 2SK49
O.S.C(36.960MHz)

IC-203 (RH-IX1061AFZZ) PROGRAMMABLE DIVIDER

SYNTHESIZER

Q104 2SC900 or 2SC733
SQUELCH VOLTAGE AMP.

IC-101
DRIV & AUDIO AMP.
(RH-IX1020AFZZ)

Q101 2SC945
AF AMP.

Q102 2SD227 or 2SC735
MODULATION LIMITER AMP.

Q103 2SC945 or 2SC373
MODULATION LIMITER AMP.

AF AMPLIFIER

TRANSMITTER

Q301 2SK61 or 2SK49
O.S.C (11.275MHz)

Q302 2SC945 or 2SC735
MIXER (27MHz)

Q303 2SC1166
BUFFER AMP.

Q304 2SC495
DRIVER

Q305 2SC1237
FINAL

VR. PWB

SW 3 ANL SWITCH

SW 5 DELTA TUNING SWITCH

ME601 S/RF METER

SQUELCH CONTROL with PA. SWITCH

SW 2-B

SW 1 POWER SWITCH

PL1

SW 2-A

VOLUME

LED PWB

LED501

LED502

CHANNEL INDICATOR

DIODE ARRAY

IC-501
(RH-IX1031AFZZ)

(470×5)
R501 (A~E)
RESISTOR ARRAY

(470×5)
R502 (A~E)
RESISTOR ARRAY

Q504 2SA495
LED DRIVER

LED IND.

Q503, Q502 2SC373
9CH FLASHING OSC.

Q501 CNP607 2SA738
LED DRIVER

POWER SUPPLY

POWER PWB

EXT. SPEAKER JACK

P.A. SPEAKER JACK

RELAY COIL RY101

SP601 SPEAKER 8 ohms

MIC. SOCKET SO602

PRESS-TO-TALK SWITCH

MIC. PLUG

500ohms MIC.

MIC. UNIT

PG601 FUSE 2.3A

DC13.8V TEST VOLTAGE

NOTES;

1) IF 1st : 11.275 MHz , 2nd : 455 kHz
2) CAPACITANCE VALUES ARE IN MFD P=MMFD
3) RESISTANCE VALUES ARE IN OHM K=1000, M=1000K
4) SW 1 : OFF-ON POWER SWITCH WITH VOLUME CONTROL (R702)
5) SW 2-(A,B) : PUBLIC ADRESS SWITCH
6) SW 3 : AUTOMATIC NOISE LIMITER SWITCH
7) SW 4-(A,B) : CHANNEL SELECTOR SWITCH
8) SW 5 : DELTA FINE TUNING SWITCH
9) SW 6-(A~D) / RY101 : RELAY WITH RECEIVER / TRANSMITTER SWITCH
10) VOLTAGES ARE MEASURED AT CHANNEL 19

WAVEFORM MEASUREMENT CONDITTIONS

1. CHANNEL SELECTOR : AT THE POSITION OF CHANNEL 19
2. TRANSMITTER : NOT MODULATED.
3. RECEIVER : NO SIGNAL INPUT.
4. USE "10:1" PROBE FOR OSCILLOSCOPE.

PWB GROUND
CHASSIS GROUND

2	3	201	202	203	204	205	206	207	208	209	210	211	212	301	303	304	305	306	307	308
4.2Vp-p	2.2Vp-p	1.2Vp-p	10 kHz 6.4Vp-p	6.4 Vp-p	6.4V +6.4V DC 0V	3.0V +3V DC 0V	4.2Vp-p	2.8Vp-p	2Vp-p	2~4Vp-p	2.7Vp-p	2.7 Vp-p	4.5 Vp-p	2.5~3.5Vpp	5V 5.5V	2.2Vp-p	15 Vp-p	20Vp-p	45 V p-p	30 Vp-p
11.730MHz	11.730MHz	10.240MHz		10 kHz			38.46MHz	38.46 MHz	38.46MHz	1.5 MHz	1.5 MHz	1.5 MHz	36.96 MHz	11.275 MHz	27.185MHz	27.185MHz	27.185MHz	27.185MHz	27.185 MHz	27.185 MHz

Figure 17 SCHEMATIC DIAGRAM