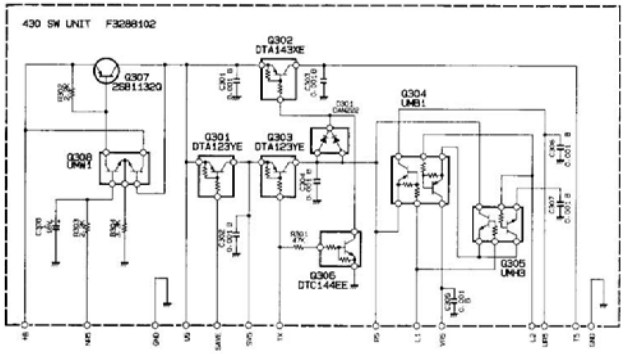
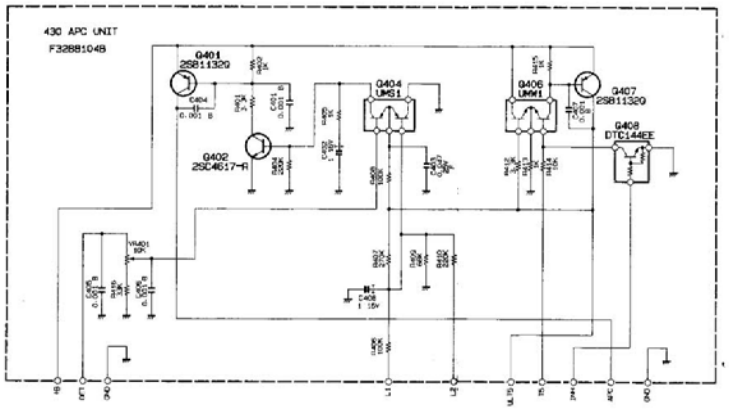
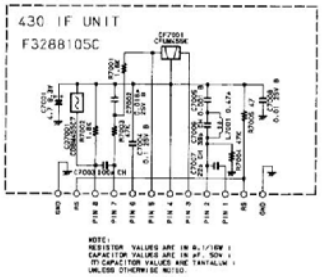
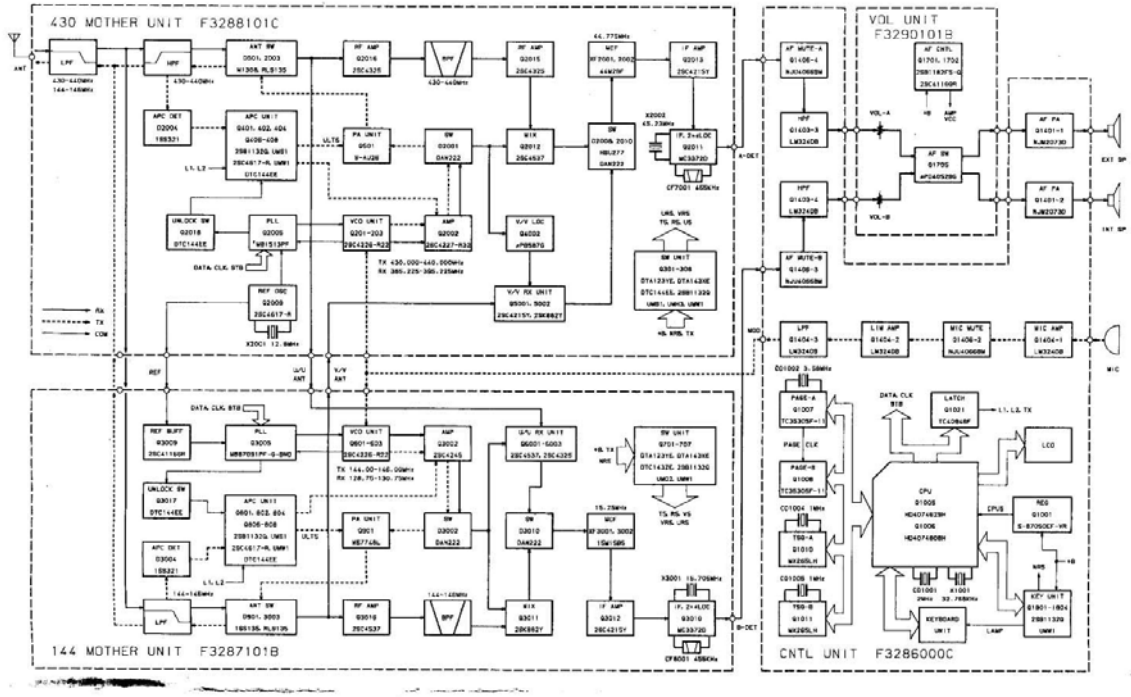
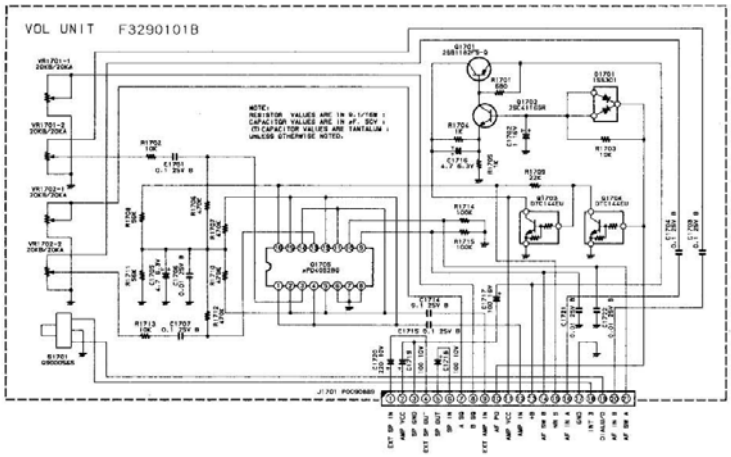

430 SW UNIT F3288102
Q302
DTA143XE
Q307
2SB11320
Q301
DTA123YE
Q303
DTA123YE
Q304
UMB1
Q308
UMN1
Q306
DTC144EE
Q305
UMH3

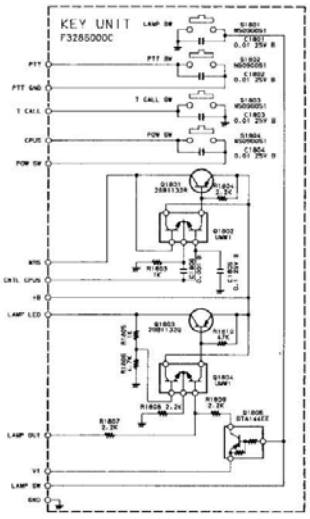

430 APC UNIT
F3288104B
Q401
2SB11320
Q402
2SC4617-R
Q404
UMS1
Q406
UMN1
Q407
2SB11320
Q408
DTC144EE

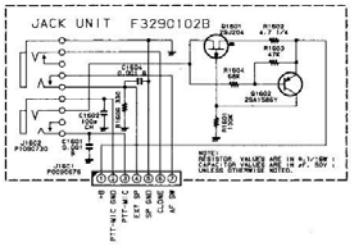

430 IF UNIT
F3288105C

FT-530 Circuit Diagrams



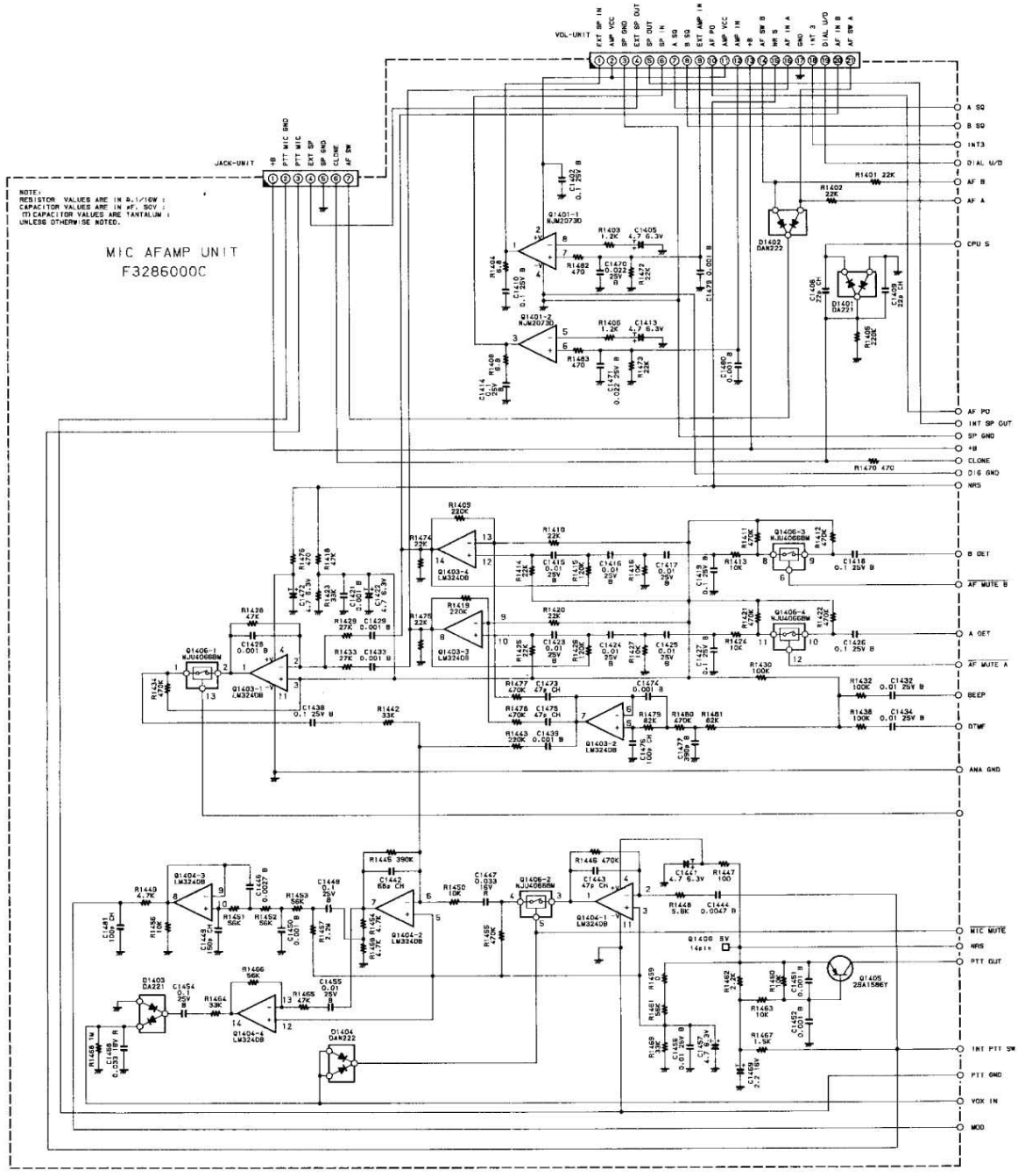


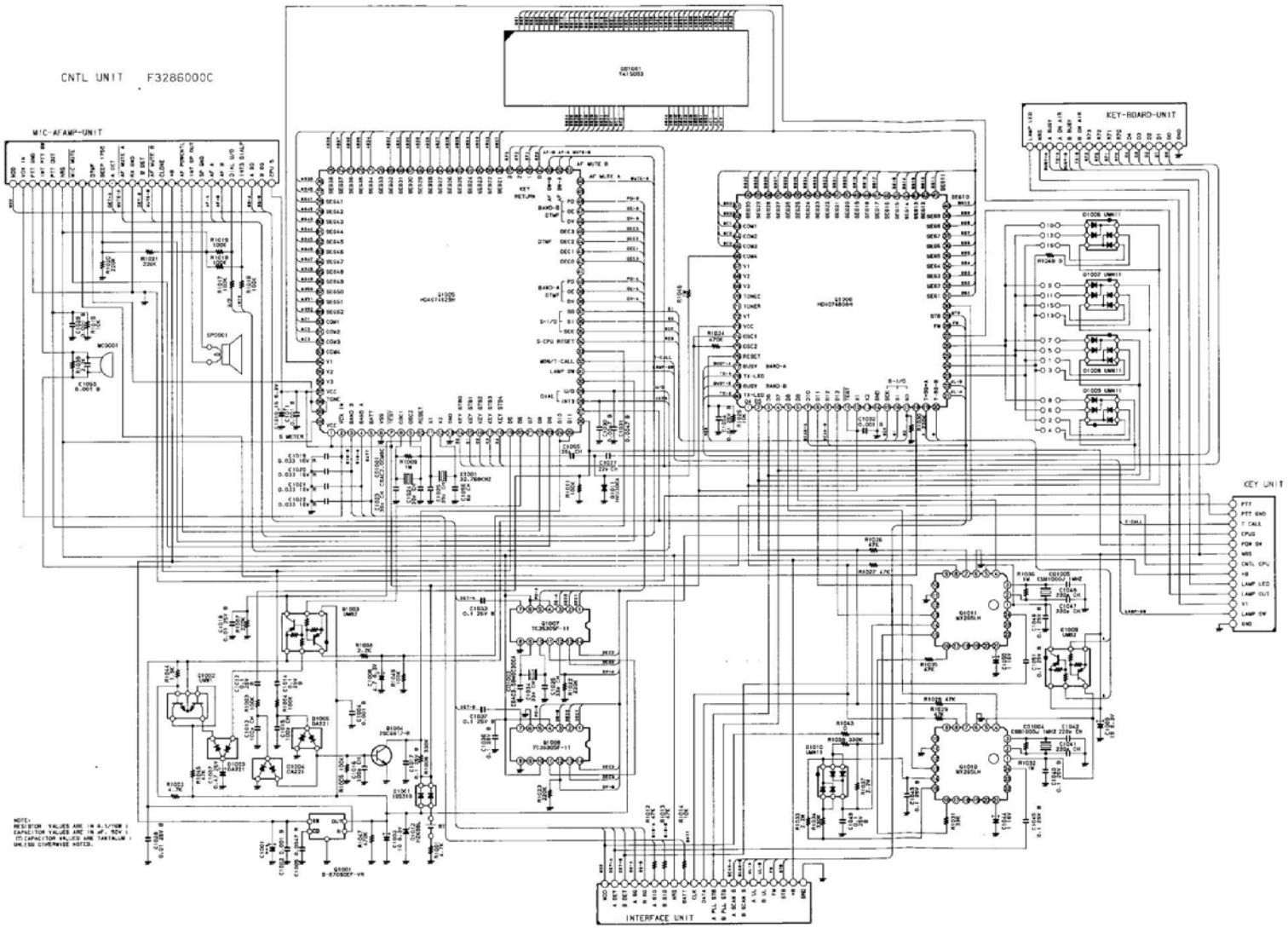


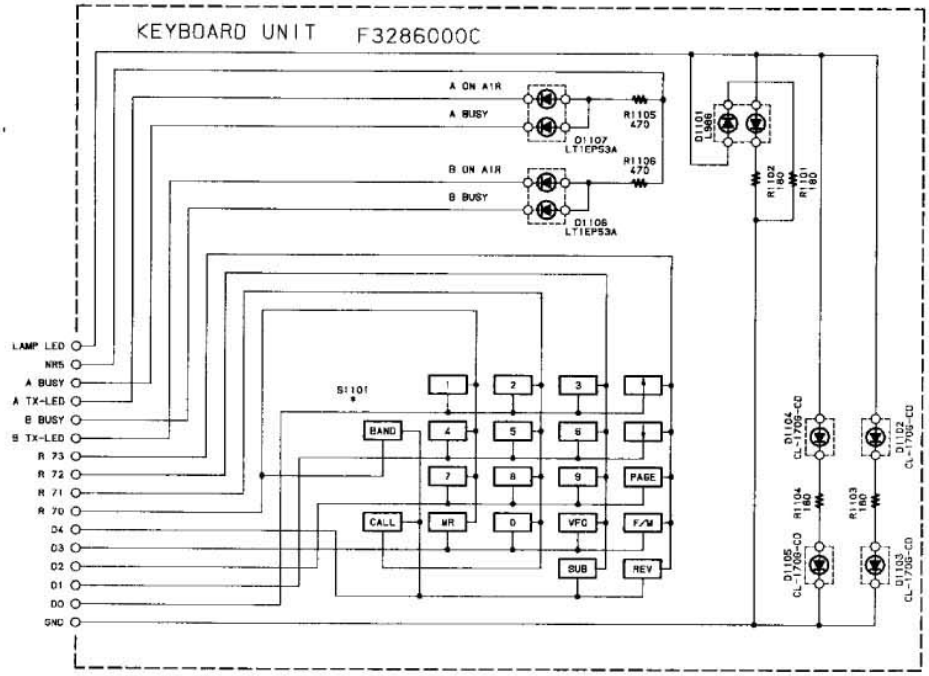


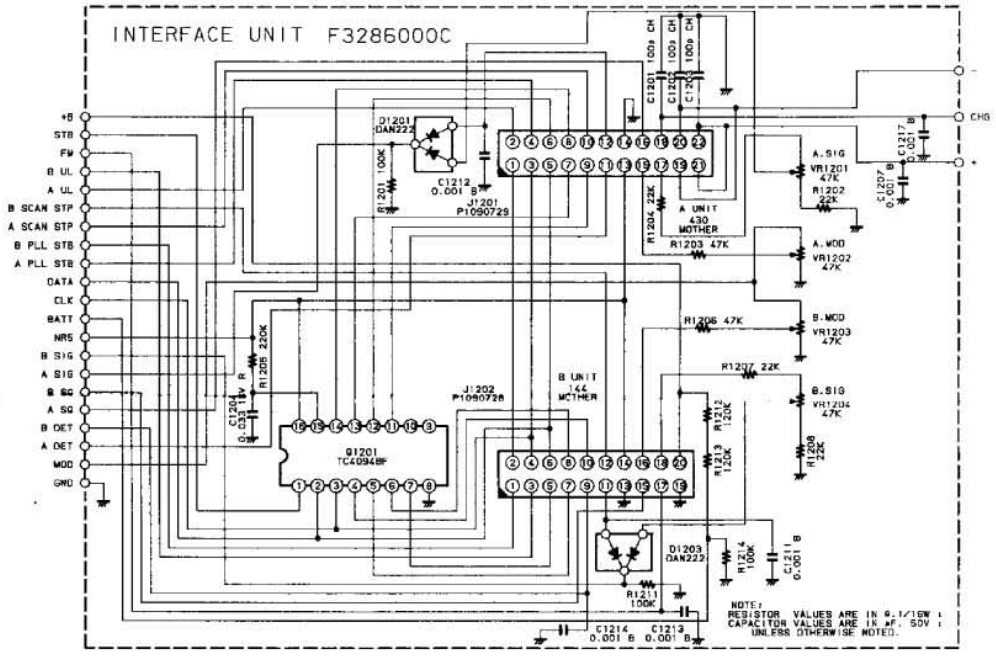
YAESU MUSEN CO., LTD.

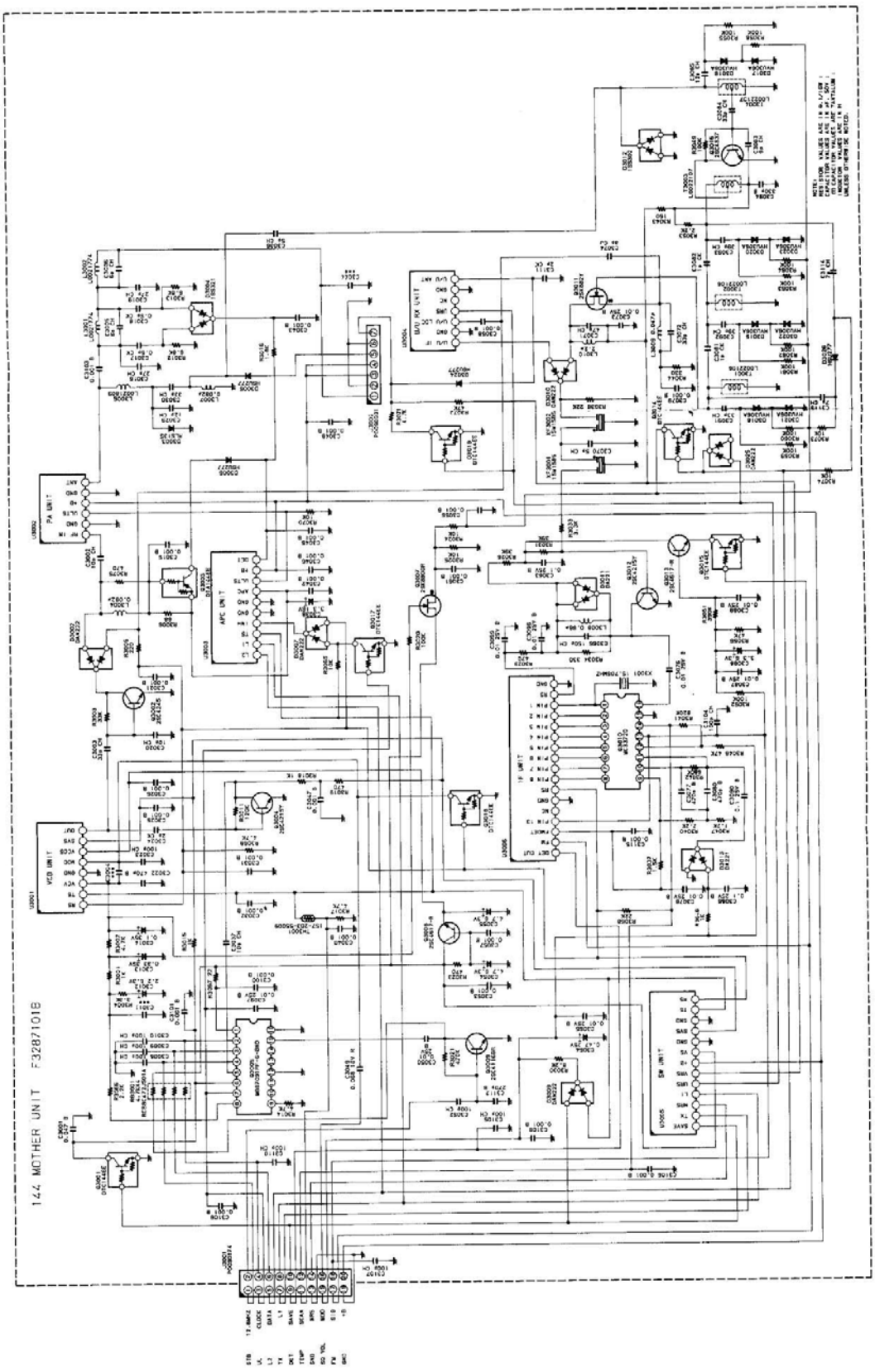
E03171200

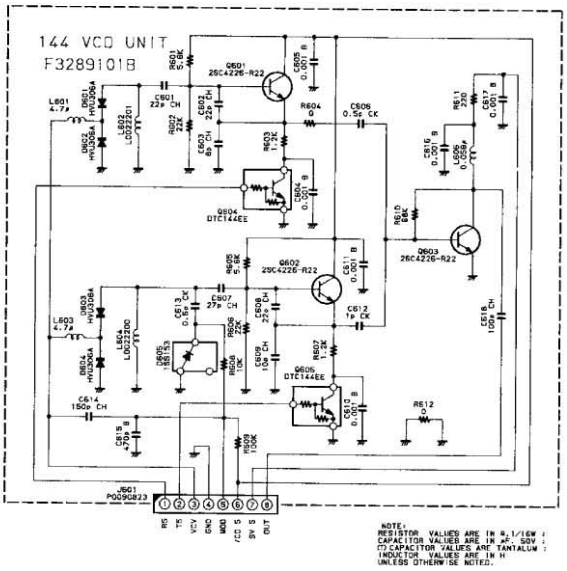

MIC AFAMP UNIT
F3286000C
NOTE:
RESISTOR VALUES ARE IN Ω, 1/16W ;
CAPACITOR VALUES ARE IN μF, 50V ;
(T) CAPACITOR VALUES ARE TANTALUM ;
UNLESS OTHERWISE NOTED.
VOL-UNIT
JACK-UNIT
A SQ
B SQ
INT3
DIAL U/D
AF B
AF A
CPU S
AF PO
INT SP OUT
SP GND
+B
CLONE
D16 GND
NRS
B DET
AF MUTE B
A DET
AF MUTE A
BEEP
DTMF
ANA GND
MIC MUTE
NRS
PTT OUT
INT PTT SW
PTT GND
VOX IN
MOD

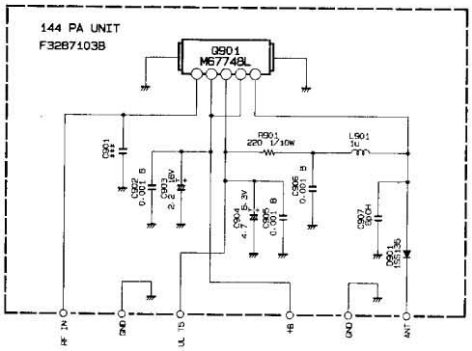

CNTL UNIT F3286000C
MIC-AFAMP-UNIT
KEY-BOARD-UNIT
KEY UNIT
INTERFACE UNIT
PTT
PTT GND
T CALL
CPUG
FDM SW
MRS
CNTL CPU
+B
LAMP LED
LAMP OUT
V1
LAMP SW
GND

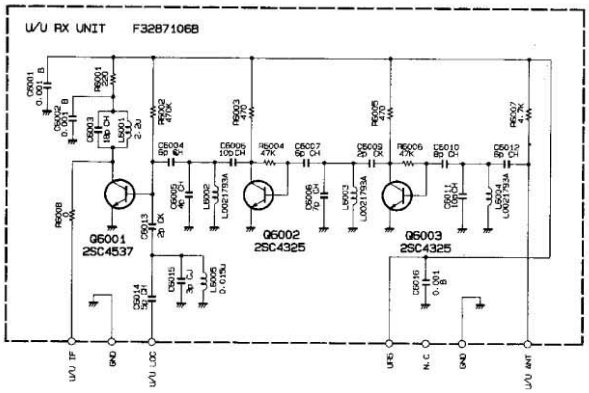

KEYBOARD UNIT F3286000C
A ON AIR
A BUSY
B ON AIR
B BUSY
D1107 LT1EP53A
D1106 LT1EP53A
R1105 470
R1106 470
D1101 L986
R1102 180
R1101 180
LAMP LED
NRS
A BUSY
A TX-LED
B BUSY
B TX-LED
R 73
R 72
R 71
R 70
D4
D3
D2
D1
D0
GND
S1101
BAND
CALL
MR
VFO
F/M
SUB
REV
PAGE
D1104 CL-170G-CD
D1105 CL-170G-CD
D1102 CL-170G-CD
D1103 CL-170G-CD
R1104 180
R1103 180

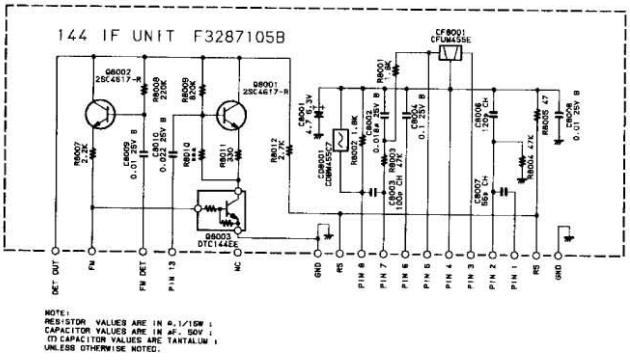

INTERFACE UNIT F3286000C
+B
STB
FM
B UL
A UL
B SCAN STP
A SCAN STP
B PLL STB
A PLL STB
DATA
CLK
BATT
NRS
B SIG
A SIG
B SQ
A SQ
B DET
A DET
MOD
GND
D1201 DAN222
J1201 P1090729
J1202 P1090728
A UNIT 430 MOTHER
B UNIT 144 MOTHER
IC1201 TC40946F
D1203 DAN222
A.SIG VR1201 47K
A.MOD VR1202 47K
B.MOD VR1203 47K
B.SIG VR1204 47K
R1202 22K
R1203 47K
R1204 22K
R1205 47K
R1206 47K
R1207 22K
R1208 22K
R1212 120K
R1213 120K
R1214 100K
R1211 100K
C1201 100p CH
C1202 100p CH
C1203 100p CH
C1204 0.033 16V R
C1205 220K
C1207 B 0.001
C1211 B 0.001
C1212 0.001 B
C1213 0.001 B
C1214 0.001 B
C1217 B 0.001
CHG
NOTE:
RESISTOR VALUES ARE IN Ω, 1/16W ;
CAPACITOR VALUES ARE IN μF, 50V ;
UNLESS OTHERWISE NOTED.

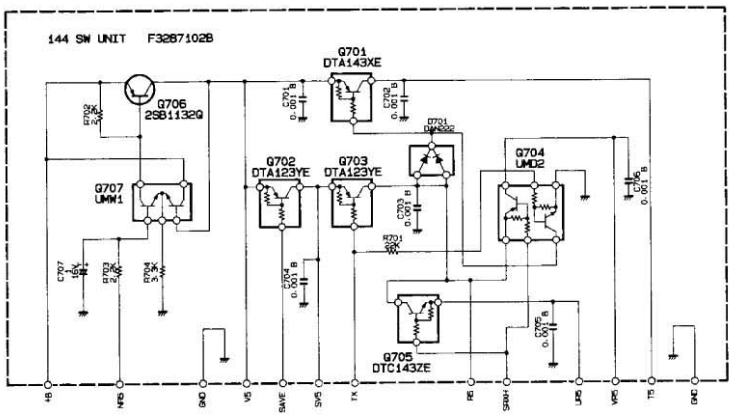

144 MOTHER UNIT F32B7101B

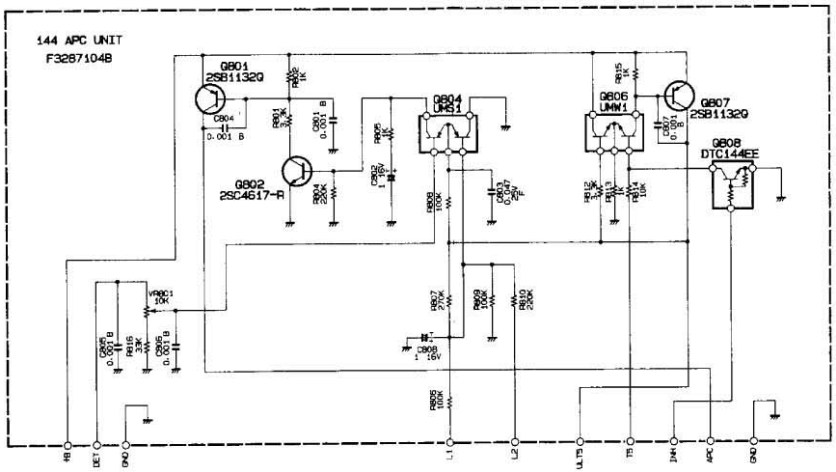

144 VCO UNIT
F3289101B
NOTE:
RESISTOR VALUES ARE IN Ω, 1/16W ;
CAPACITOR VALUES ARE IN μF, 50V ;
(T) CAPACITOR VALUES ARE TANTALUM ;
INDUCTOR VALUES ARE IN H
UNLESS OTHERWISE NOTED.

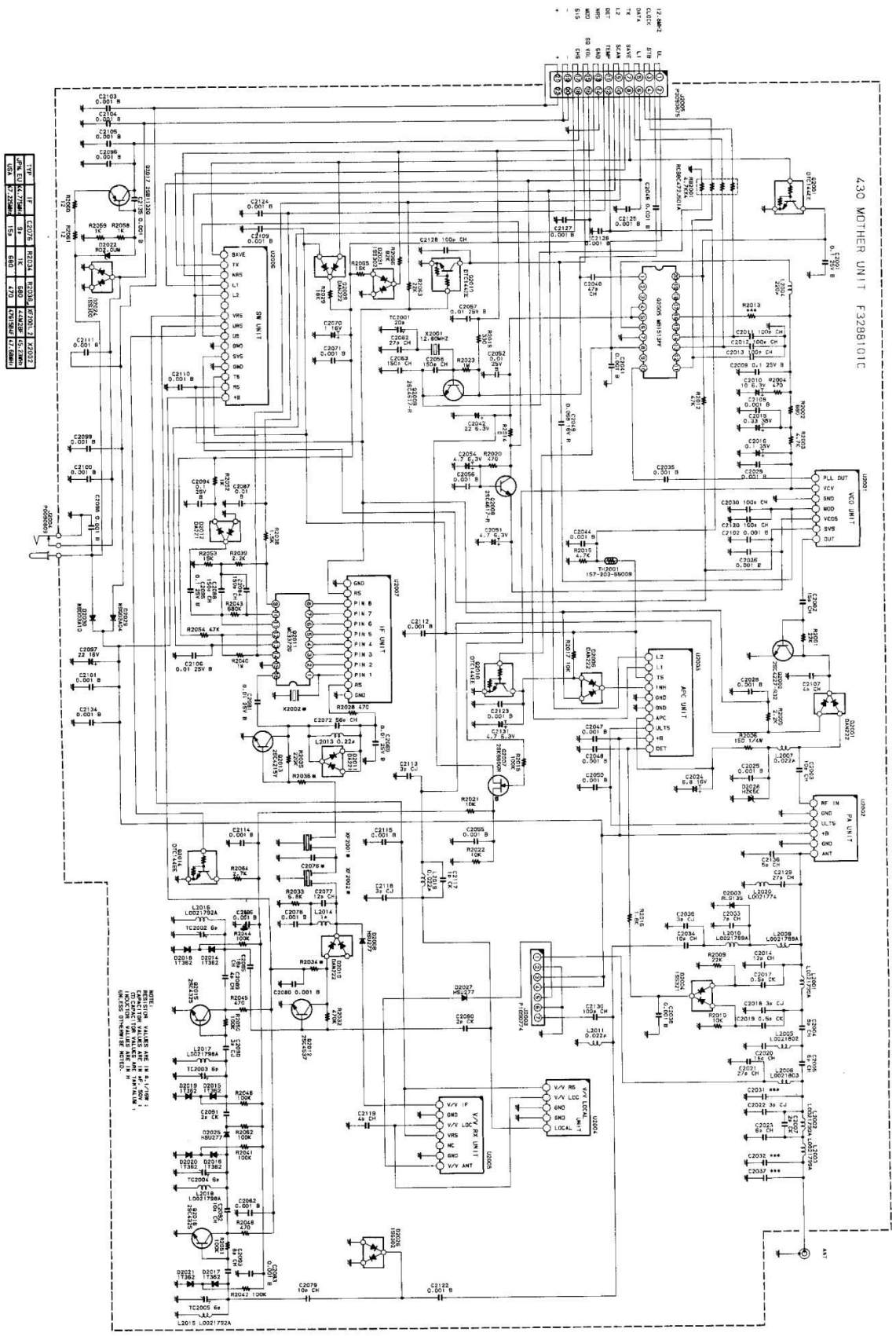

144 PA UNIT
F3287103B
Q901
M67748L

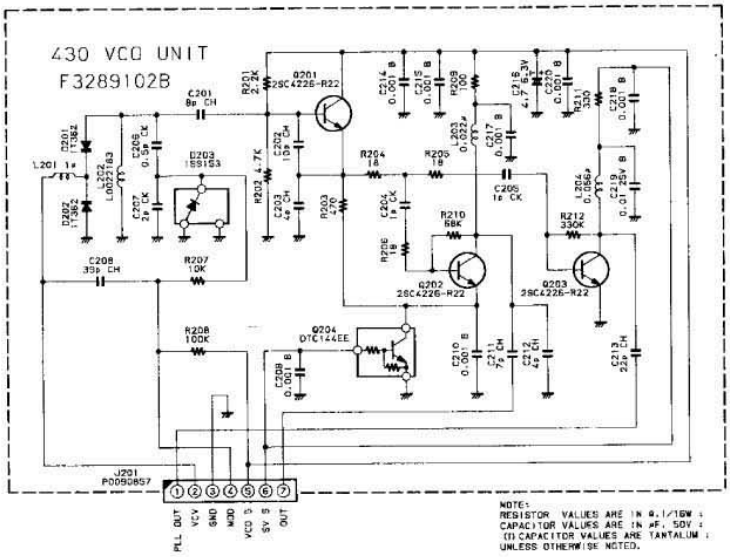

U/U RX UNIT F3287106B
Q6001
2SC4537
Q6002
2SC4325
Q6003
2SC4325

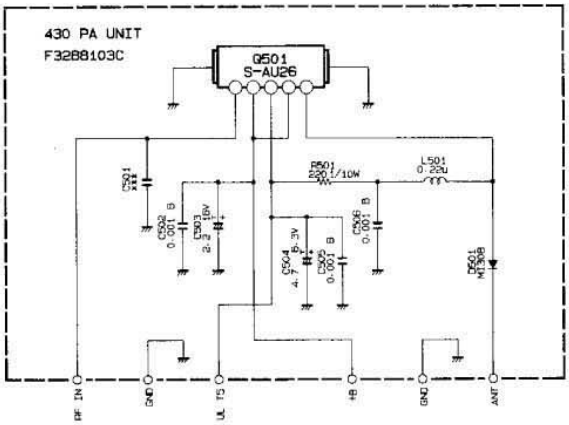

144 IF UNIT F3287105B
NOTE:
RESISTOR VALUES ARE IN Ω, 1/16W ;
CAPACITOR VALUES ARE IN μF, 50V ;
(T) CAPACITOR VALUES ARE TANTALUM ;
UNLESS OTHERWISE NOTED.

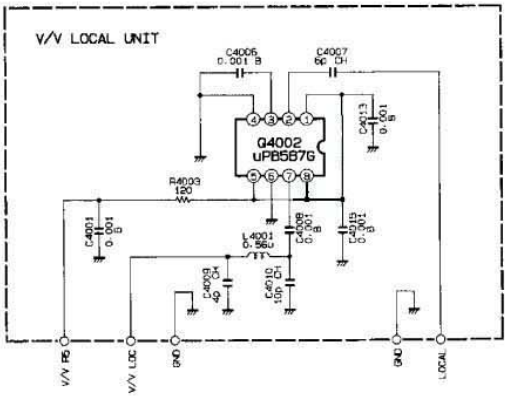

144 SW UNIT F3287102B
Q701
DTA143XE
Q706
2SB1132Q
Q707
UMW1
Q702
DTA123YE
Q703
DTA123YE
Q704
UMD2
Q705
DTC143ZE
HB
HRB
GND
VB
SWE
SVB
TX
RX
SRW
URB
VRX
TB
GND


144 APC UNIT
F3287104B
Q801
2SB1132Q
Q802
2SC4617-R
Q804
UMD1
Q806
UMW1
Q807
2SB1132Q
Q808
DTC144EE
HB
DET
GND
L1
L2
ULTB
TB
PAC
APC
GND


430 MOTHER UNIT F3288101C


430 VCO UNIT
F3289102B
Q201
2SC4226-R22
D203
1SS133
Q202
2SC4226-R22
Q203
2SC4226-R22
Q204
DTC144EE
J201
P0090857
PLL DAT
VCV
GND
VCO S
SV S
OUT
NOTE:
RESISTOR VALUES ARE IN Ω, 1/16W ;
CAPACITOR VALUES ARE IN μF, 50V ;
(T) CAPACITOR VALUES ARE TANTALUM ;
UNLESS OTHERWISE NOTED.


430 PA UNIT
F3288103C
Q501
S-AU26
RF IN
GND
UL TS
+B
GND
ANT


V/V LOCAL UNIT
Q4002
uPB587G
V/V PD
V/V LOC
GND
GND
LOCAL