AX 144
Service
Manual

uniden CORPORATION OF AMERICA
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Contents

Specifications

Receiver:

Sens. For $N = \frac{S+N}{10dB}$	.5uv
Sens. For 500mw	.3uv
Squelch Threshold	.5uv
Squelch Deep	60-70dB
S-9	50uv
Frequency Range	26.965mhz to 27.450mhz
Type Of Emission	AM-SSB
AF Power At 10% Distortion	3 Watts
IF Band Width	4khz
AF Output Impedance	8ohm
Adjacent Channel Rejection	60db Or Better

Transmitter:

Power Output	4 Watts AM- 12 Watts PEP- SSB
Spurious Suppression Better Than-	60db
Percentage Of Modulation	85 - 100%
Frequency Tolerance	$\pm$ 1350hz
Frequency Range	26.965 mhz to 27.405 mhz
Type Of Emission	AM - SSB
Output Impedance	50 ohm
Frequency Method	PLL
Power Required	13.8vdc @ .5 amps RX 2.5 amps TX Peak

Note:

All Transmitter Adjustments Must Be Performed By A FCC 1st Or 2nd Class Radiotelephone License Holder.

Alignment of Receiver Portion

1. Test Equipment Required
   a. Signal Generator (27MHz band. 1,000Hz 30% amplitude modulation must be available and 50 ohm out put impedance)

   b. DC, Volt Meter
   c. AF V.T.V.M. (5V Full Scale)
   d. 8-ohm DUMMY Load

2. Alignment Procedure

   Connect the AF V.T.V.M. & 8-ohm DUMMY Load to EXT SP Jack during the the alignment of receiver portion.

STEP	PRESET CONDITION	CONDITION OF SIGNAL GENERATOR	ADJUSTMENT	REMARKS
1	Channel 19 NB OFF ANL OFF SQL MIN RF GAIN MAX VDL MAX MODE USB PA-CB CB	27.185 MHz No modulation Output level 0.25uV	Frequency of Signal Generator	Adjust frequency of Signal Generator to obtain AF output signal of 1,000 at CLARIFIER control in mid position.
2	same as Step 1	same as Step 1	L3, L4, L5, L6, L7, L8, L9, L10	Adjust L3, L4, L5, L6, L7, L8, L9, L10, for the maximum AF output power.
3	same as step 1, except mode AM	1KHz 30% mod. 27.185 MHz Output level 1uV	L 3	Adjust L 3 for the maximum indication on AF V.T V.M.
4	same as Step 1	27.185 MHz No modulation Output Level 100uV	VR 1	Adjust VR 1 to obtain "S-9" indication of S-meter

STEP	PRESET CONDITION	CONDITION OF SIGNAL GENERATOR	ADJUSTMENT	REMARKS
5	same as Step 1 except SQL Max	27.185 MHz No modulation output Level; 1,000uV	VR 2	Adjust VR ill AF signal observed. Aft adjustment set SQL at minim
6	Channel 18 NB ON SQL MIN RF Gain Max Vol Max Mode AM	same as step 5 NB ADJUSTMENT	L1, L2	Adjust L1, L2, to obtain the maximum DC voltage at TP1.

ALIGNMENT OF P.L.L. PORTION

1. Test equipment required
   a. RF V.T.V.M. or Ossilloscope (0-50MHz)
   b. DC Voltmeter (10V full scale)
   c. Frequency Counter (-50MHz)
   d. 50 ohm Load

2. Alignment Procedure

STEP	PRE-SET CONDITION	CONNECTION	ADJUSTMENT	REMARKS
1	Channel 40 AM, RX mode Clarifier Control in middle position	RF V.T.V.M. to TR 4	L 13	Adjust L 13 for the maximum indication on RF V.T.V.M.
2	same as Step 1	DC Voltmeter to TP 2	L 14	Adjust L 14 to obtain approx 4.5 on the DC Voltmeter
3	Channel 19 USB, RX mode	RF V.T.V.M. to secondary of L 15 (TR3) LOCAL OUT	L 15	Adjust L 15 for the maximum indication on RF V.T.V.M.
4	same as Step 3	Frequency Counter to secondary of L15 (TP 3)	L 17	Adjust L 17 to obtain 16.4925 MHz $\pm$ 20Hz indication
5	Channel 19 AM, RX mode	same as above	L 16	Adjust L16 to obtain 16.4900MHz $\pm$ 20Hz indication.
6	Channel 19 LSB, RX mode	same as above	L 18	Adjust to L18 to obtain 16.4875MHz $\pm$ 20Hz indication.
7	Channel 19 LSB, TX mode	same as above	VR 3	Adjust VR 3 to obtain 16.4875MHz $\pm$ 20Hz indication.

ALIGNMENT OF CARRIER OSCILLATOR

1. Test equipment required

   a. RF V.T.V.M. or Oscilloscope (0-10MHz)
   b. Frequency Counter (0-10MHz)
   c. 50 ohm Load

2. Alignment Procedure

STEP	PRESET CONDITION	CONNECTIONS	ADJUSTMENT	REMARKS
1	Channel 19 USB, RX mode	Frequency Counter to TP 5	L 20	Adjust L 20 to obtain 10.6925NHz + OHz, -5Hz
2	Change over to LSB mode	same as Step 1	L 21	Adjust L 21 to obtain 10.6975MHz ± 5 Hz, -OHz indication.
3	Channel 19 AM, TX mode. Disconnect TP6, TP7, TP8	Frequency Counter to TP 9	L 19	Adjust L 19 to obtain 10.6950 MHz ± 5Hz indication.

ALIGNMENT OF TRANSMITTER PORTION

1. Test Equipment required

   a. AF Signal Generator (l) for 500Hz & 1,000Hz
   b. AF Signal Generator (2) for 2,400Hz
   c. AF Attenuator, 600-ohm, attebuation range 0-80dB, 0.ldB step
   d. AF V.T.V.M. (l50mV Full scale)
   e. RF V.T.V.M. (50 V Full scale)
   f. RF Output Power Meter (l0W Max, Thruline type)
   g. 50-ohm Dummy Load
   h. RF Attenuator (0-80dB)
   i. Oscilloscope (DC-50NHz)
   j. Spectrum Analyzer
   k. DC Voltmeter
   l. DC Current Meter (l50mA Full scale)

2. Alignment Procedure
   Connect the test equipments according to the test set-up shown in Fig. 2

STEP	PRESET CONDITION	CONNECTIONS	ADJUSTMENT	REMARKS
l	Channel 19 USB. TX mode No modulation	DC Current Meter TP8 (+) . TP7 (-)	VR 9	Adjust VR 9 to obtain the current approx. l0mA after adjustment connect TP 8
2	same as step l	DC Current Meter TP8 (+), TP6 (-)	VR 8	Adjust VR 8 to obtain the Current approx. l00mA after adjustment connect TP 7
3		DC Current Meter to disconnection		Shortening Boald to connect 6.7.8.
4	same as step l		VR 4	Adjust VR 4 to obtain the minimum carrier leakage.
5	same as step l except LSP		VR 4	same as above

STEP	PRESET CONDITION	CONNECTIONS	ADJUSTMENT	REMARKS
6	Repeat Steps 4 and 5 to obtain approximately the same amount of carrier leakage on USB and LSB modes, and the same time to make the leakage minimum.			
7	Channel 19, USB, TX mode AF input of 2-tone about 500 mV Mike Jack.	Set VR 6 at C.W. Position	L40, L39, L38 L37, L27	Adjust L 40, L39, L38 L37, and L27 to Max. indication on RF V.T.V
8	Channel 19 USB, TX mode AF input of 2-tone, RF output of about 4W PEP.	same as above	L40, L39, L38, L37	Adjust L40, L39, L38 L37 to obtain the max. indication on the RF V.T.V.M.
9	Channel 19, AM, TX mode AF input 500mV to Mike Jack.	same as above	L 27	Adjust L 27 to obtain the maximum indication on the RF V.T.V.M
10	same as step 7	ALC	VR 6	Adjust VR 6 to obtain RF output power of approx. 11.0W PEP.
11	Channel 19 AM, TX mode. No. modulation		VR 10	Adjust VR 10 to obtain RF carrier power of 3.8W
12	same as step 11	TX MTR ADJUST	VR 7	Adjust VR 7 to obtain an indication of marked position on built-in meter.
13	Check spurious emissions of AM and SSB using Spectrum Analyzer.			

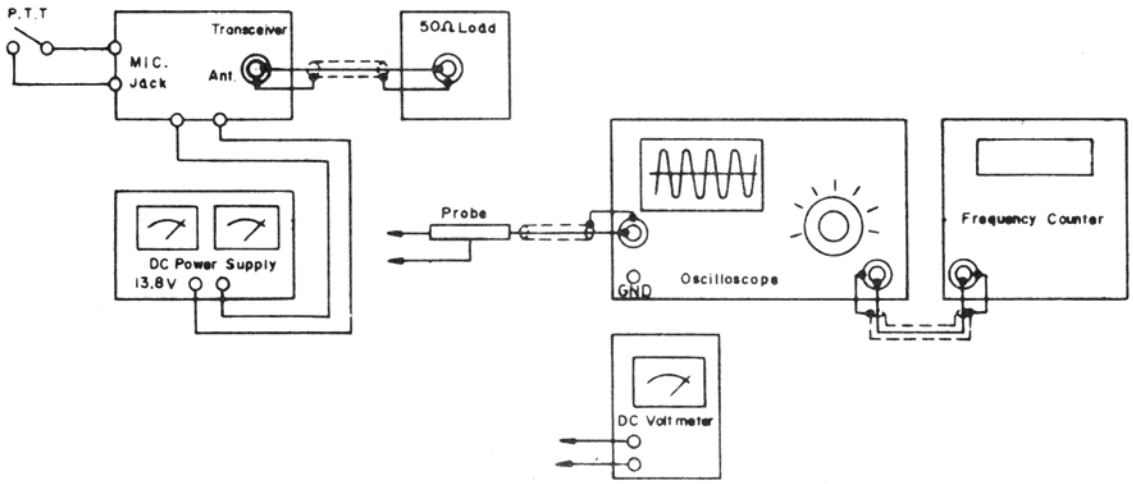
Step 13 is required for a model employing modulation meter.

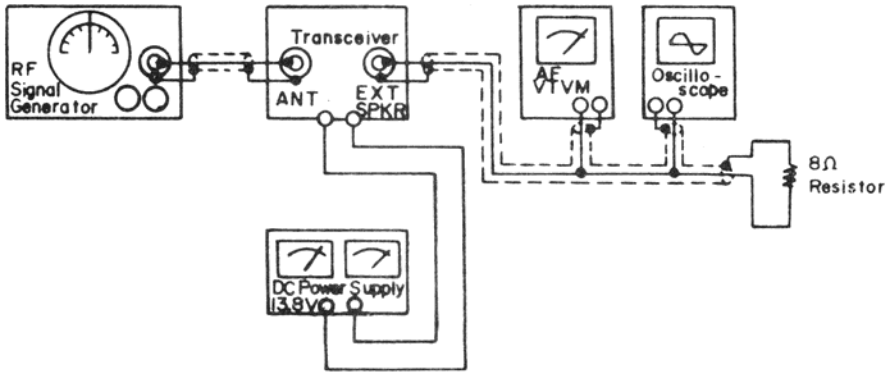
Semiconductor Voltage Chart. AX 144 All Voltage Measurements Taken with a 20,000 Ohm Per Volt VTVM Or VOM

( ) Indicates Squelch *SSB #Bright TX-Transmit

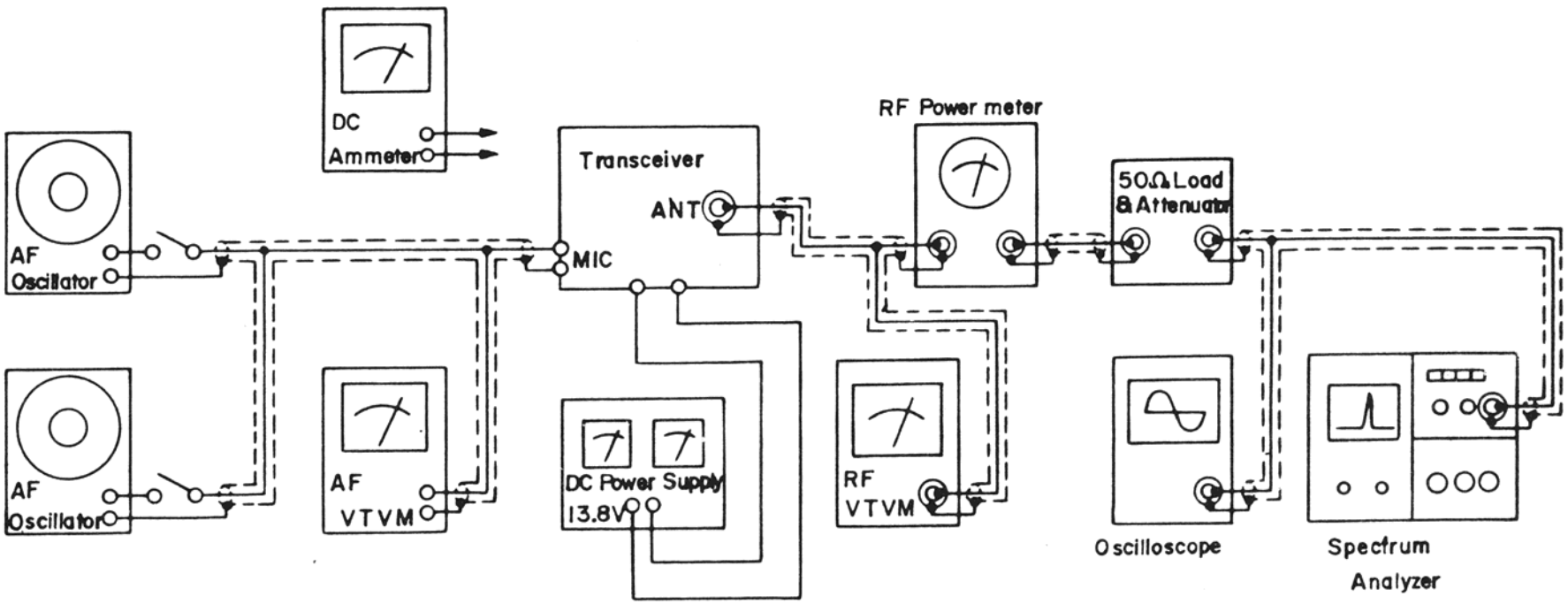
	RX			TX				RX			TX				RX			TX			
TR	B	C	E	B	C	E	TR	B	C	E	B	C	E	TR	B	C	E	B	C	E	
1	1.6	7.6	1.0				15	.6	3.4	0				28	7.5	.6	8.1	7.5	0	7.9	
2	.7	2.4	0				16	3.4	7.0	2.7				29	.8	7.5	1.5	.8	7.5	1.5	
3	2.5	7.6	1.8				17	2.7	7.1	2.0				30	2.4	7.6	8.0	2.4	7.6	8.0	
4	0	8.0	1.0				18	1.2	5.0	.6				31	8	8	7.2	7.9	0	7.4	
5	0	7.3	0				19	1.4	4.9	.8	1.4	4.9	.8	32	5.0	7.5	5.0	.7	0	0	
6	7.4	0	8.0				20	2.4	7.7	1.8	2.4	7.5	1.8	33	7.5	0	8.0	7.2	8.0	8.0	
7	0	0	0				21	2.4	7.6	1.8	2.4	7.6	1.8	34	1.4	13.0	.9	1.4	13.0	1.4	
8	.6	0	0				22	2.7	6.4	2.1	2.7	6.4	2.1	35	13.0	8.0	13.7	13.0	8.0	13.7	
9	0	.6	0				23	0	0	0	3.1	6.6	2.4	36	.8	2.9	.2				
10	1.2	5.0	.6				23*	3.2	6.6	2.6	3.2	6.6	2.6	37	0	7.4	4.2	0	7.4	4.2	
11	0	0	0				24	.6	0	0	.6	0	0	37*	0	7.4	.8	0	7.4	.8	
11	(.6)	(0)	(0)				24*	0	2.8	0	0	2.8	0	38				.4	5.2	0	
12	1.8	7.8	1.1				25				1.6	3.8	1.0	38*				.4	12.6	0	
13	.6	7.8	.2				26				.8	1.4	.2	39				.6	5.2	0	
14	1.4	7.9	.8				27	.6	0	0	0	0	0	39*				.6	12.6	0	
IC	Pin 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21/22
1	6.8	.4	.3	8.0	.1	.1	.1	0	0	1.2	0	0	.2	.5							
1	(6.8)	(.4)	(.3)	(8.0)	(.1)	(.1)	(.1)	(6.8)	0	1.9	0	0	.2	.5							
2	4.9	.4	.4	4.9	4.9	.4	4.9	0	0	2.2	4.9	2.5	2.5	2.4	4.9	4.9	3.3	3.3	3.1	0	0/24
3	0	3.0	3.0	0	5.6	7.0	3.0														
3*	2.8	3.1	3.1	0	5.6	7.2	3.7														
4	0	1.8	1.0	0	6.6	12.6	13.7														
4 TX	0	1.8	.7	0	11.6	12.6	13.7														
5 TX	0	7.6	7.6	0	7.6	0	2.8	2.8	0	.8	1.4	.8	1.4	0							
40				1.2	7.9	.6															
41				1.3	7.9	.6															
42				5.8	12.0	5.2															
42*				12.7	12.8	12.1															
43				12.0	5.2	12.6															
43*				12.6	13.2	12.5															
44				12.6	5.2	13.2															
44*				12.6	13.4	13.4															
45				0	12.6	0															
45*				7.8	12.6	7.2															
46				.6	0	0															
46*				0	7.8	0															
401	3.4	8.0	2.8	3.4	8.0	2.8															
IC	Pin 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	

Fig. 2 PLL and Receiver Test Setup





Transmitter Test Setup



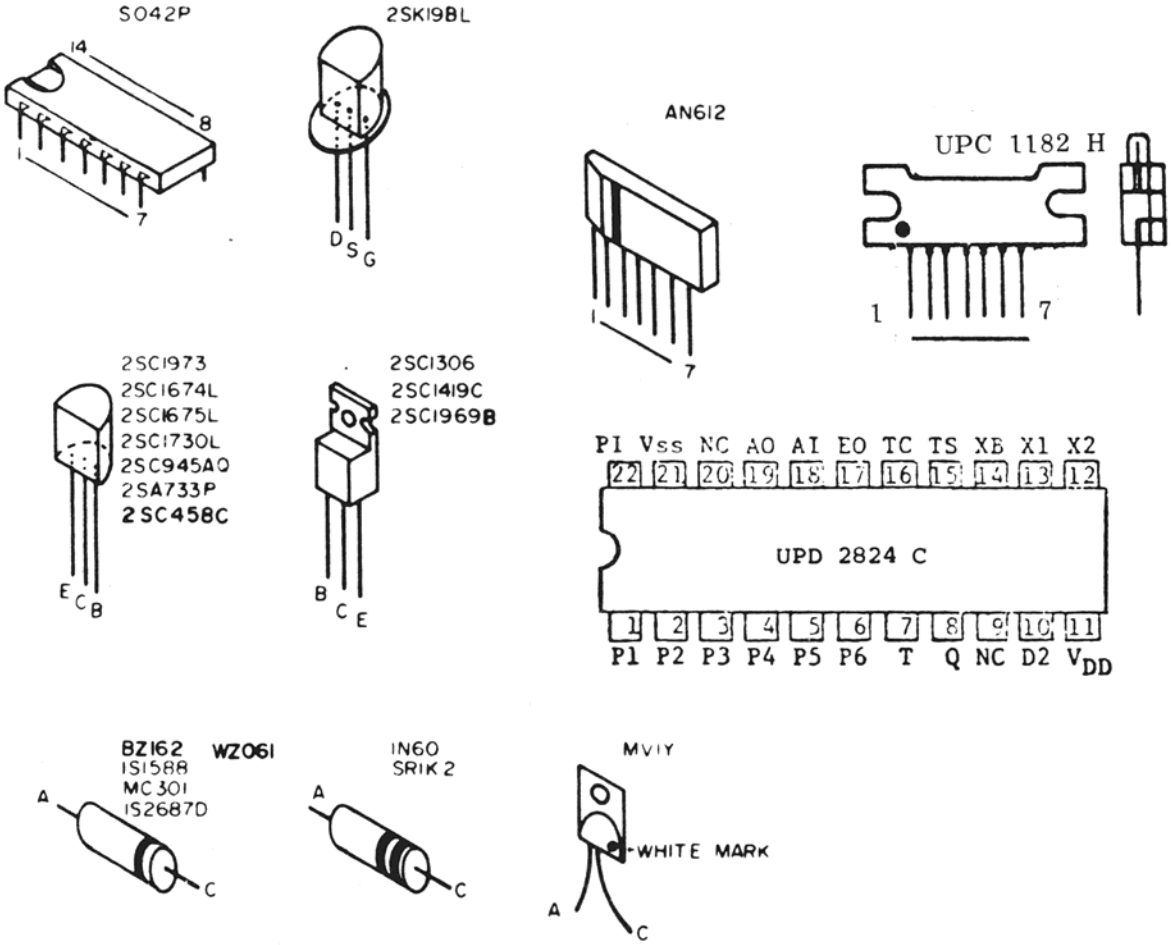

S042P
14
8
1
7
2SK19BL
D S G
AN612
1
7
UPC 1182 H
1
7
2SC1973
2SC1674L
2SC1675L
2SC1730L
2SC945AQ
2SA733P
2SC458C
E C B
2SC1306
2SC1419C
2SC1969B
B C E
PI Vss NC AO AI EO TC TS XB X1 X2
22 21 20 19 18 17 16 15 14 13 12
UPD 2824 C
1 2 3 4 5 6 7 8 9 10 11
P1 P2 P3 P4 P5 P6 T Q NC D2 VDD
BZ162 WZ061
IS1588
MC301
IS2687D
A
C
IN60
SRIK 2
A
C
MV1Y
WHITE MARK
A
C
TLR321
16
9
1
8
4
5
1 2 3 13 14 15 16 6 7 8 9 10 11 12
TLR104
TLR124
TLG103
A
C

Table A FREQUENCIES OF LOCAL OSCILLATORS AND IF STAGE IN TRANSMITTING STATE

Channnel transmission divide local oscillator frequencies Carieer osci ator frequencies.

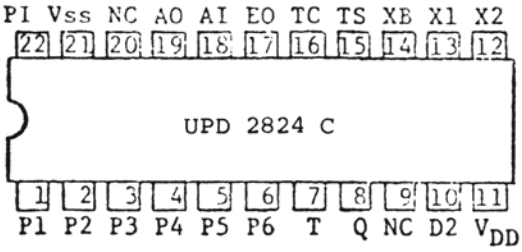
No.	frequencies allocated(MHz)	ratio (N)	(MHz) AM mode	(MHz) USB mode	(MHz) LSB mode	(MHz) AM mode	(MHz) USB mode	(MHz) LSB mode
1	26.965	91	16.270	16.2725	16.2675	10.695	10.6925	10.6975
2	.975	92	16.280	16.2825	16.775	"	"	"
3	.985	93	16.290	16.2925	16.2875	"	"	"
4	27.005	95	16.310	16.3125	16.3075	"	"	"
5	.015	96	16.320	16.3225	16.3175	"	"	"
6	.025	97	16.330	16.3325	16.3275	"	"	"
7	.035	98	16.340	16.3425	16.3375	"	"	"
8	.055	100	16.360	16.3625	16.3575	"	"	"
9	.065	101	16.370	16.3725	16.3675	"	"	"
10	.075	102	16.380	16.3825	16.3375	"	"	"
11	.085	103	16.390	16.3925	16.3875	"	"	"
12	.105	105	16.410	16.4125	16.4075	"	"	"
13	.115	106	16.420	16.4225	16.4175	"	"	"
14	.125	107	16.430	16.4325	16.4275	"	"	"
15	.135	108	16.440	16.4425	16.4375	"	"	"
16	.155	110	16.460	16.4625	16.4575	"	"	"
17	.165	111	16.470	16.4725	16.4675	"	"	"
18	.175	112	16.480	16.4825	16.4775	"	"	"
19	.185	113	16.490	16.4925	16,4875	"	"	"
20	.205	115	16.510	16.5125	16.5075	"	"	"
21	.215	116	16.520	16.5225	16.5175	"	"	"
22	.225	117	16.530	16.5325	16.5275	"	"	"
23	.255	120	16.560	16.5625	16.5575	"	"	"
24	.235	118	16.540	16.5425	16.5375	"	"	"
25	.245	119	16.550	16.5525	16.5475	"	"	"
26	.265	121	16.570	16.5725	16.5675	"	"	"
27	.275	122	16.580	16.5825	16.5775	"	"	"
28	.285	123	16.590	16.5925	16.5875	"	"	"
29	.295	124	16.600	16.6025	16.5975	"	"	"
30	.305	125	16.610	16.6125	16.6075	"	"	"
31	.315	126	16.620	16.6225	16.6175	"	"	"
32	.325	127	16.630	16.6325	16.6275	"	"	"
33	.335	128	16.640	16.6425	16.4375	"	"	"
34	.345	129	16.650	16.6525	16.6475	"	"	"
35	.355	130	16.660	16.6625	16.6575	"	"	"
36	.365	131	16.670	16.6725	16.6675	"	"	"
37	.375	132	16.680	16.6825	16.6675	"	"	"
38	.385	133	16.690	16.6925	16.6875	"	"	"
39	.395	134	16.700	16.7025	16.6975	"	"	"
40	.405	135	16.710	16.7125	16.7075	"	"	"

CHANNEL CODES

CH	PROGRAM INPUT						N	IS
	P1	P2	P3	P4	P5	P6		
1	1	0	0	0	0	0	91	1
2	0	1	0	0	0	0	92	1
3	1	1	0	0	0	0	93	1
4	0	0	1	0	0	0	95	1
5	1	0	1	0	0	0	96	1
6	0	1	1	0	0	0	97	1
7	1	1	1	0	0	0	98	1
8	0	0	0	1	0	0	100	1
9	1	0	0	1	0	0	101	1
10	0	0	0	0	1	0	102	1
11	1	0	0	0	1	0	103	1
12	0	0	0	0	1	0	105	1
13	1	0	0	0	1	0	106	1
14	0	1	1	0	1	0	107	1
15	1	1	1	0	1	0	108	1
16	0	1	1	0	1	0	110	1
17	1	1	1	0	1	0	111	1
18	0	0	0	1	1	0	112	1
19	1	0	0	1	1	0	113	1
20	0	0	0	0	0	1	115	1
21	1	0	0	0	0	1	116	1
22	0	0	0	0	0	1	117	1
23	1	0	0	0	0	1	120	1
24	0	1	1	0	0	1	118	1
25	1	1	1	0	0	1	119	1
26	0	1	1	0	0	1	121	1
27	1	1	1	0	0	1	122	1
28	0	0	0	1	0	1	123	1
29	1	0	0	1	0	1	124	1
30	0	0	0	0	1	1	125	1
31	1	0	0	0	1	1	126	1
32	0	0	0	0	1	1	127	1
33	1	0	0	0	1	1	128	1
34	0	1	1	0	1	1	129	1
35	1	1	1	0	1	1	130	1
36	0	1	1	0	1	1	131	1
37	1	1	1	0	1	1	132	1
38	0	0	0	1	1	1	133	1
39	1	0	0	1	1	1	134	1
40	0	0	0	0	0	0	135	1
	0	0	0	1				0
	1	0	0	1		PROGRAM		0
	0	1	1	1		INHIBIT		0
	1	1	1	1				0
	0	1	1	1				0
	1	1	1	1				0

O = Low Level
1 = High Level
IS Output = "O" output except ICH to 40CH

CONNECTION DIAGRAM (Top View)



PIN #1 to PIN #6 ---PROGRAM INPUT
P1:LSB
P2:MSB pull-up registors installed

PIN #7 ------ T-F/F INPUT

PIN #8 ------ T-F/F OUTPUT

PIN #9 ------ NO CONNECTION

PIN #10 ----- 5.12MHz OUTPUT

PIN #11 ----- POWER SUPPLY

PIN #12 ----- CRYSTAL OSCILLATOR OUTPUT } 10.24MHz

PIN #13 ----- CRYSTAL OSCILLATOR INPUT }

PIN #14 ----- BUFFERED 10.24MHz OUTPUT

PIN #15 ----- LOCK DETECT OUTPUT

PIN #16 ----- LOCK DETECT INTEGRATOR

PIN #17 ----- ERROR SIGNAL OUTPUT

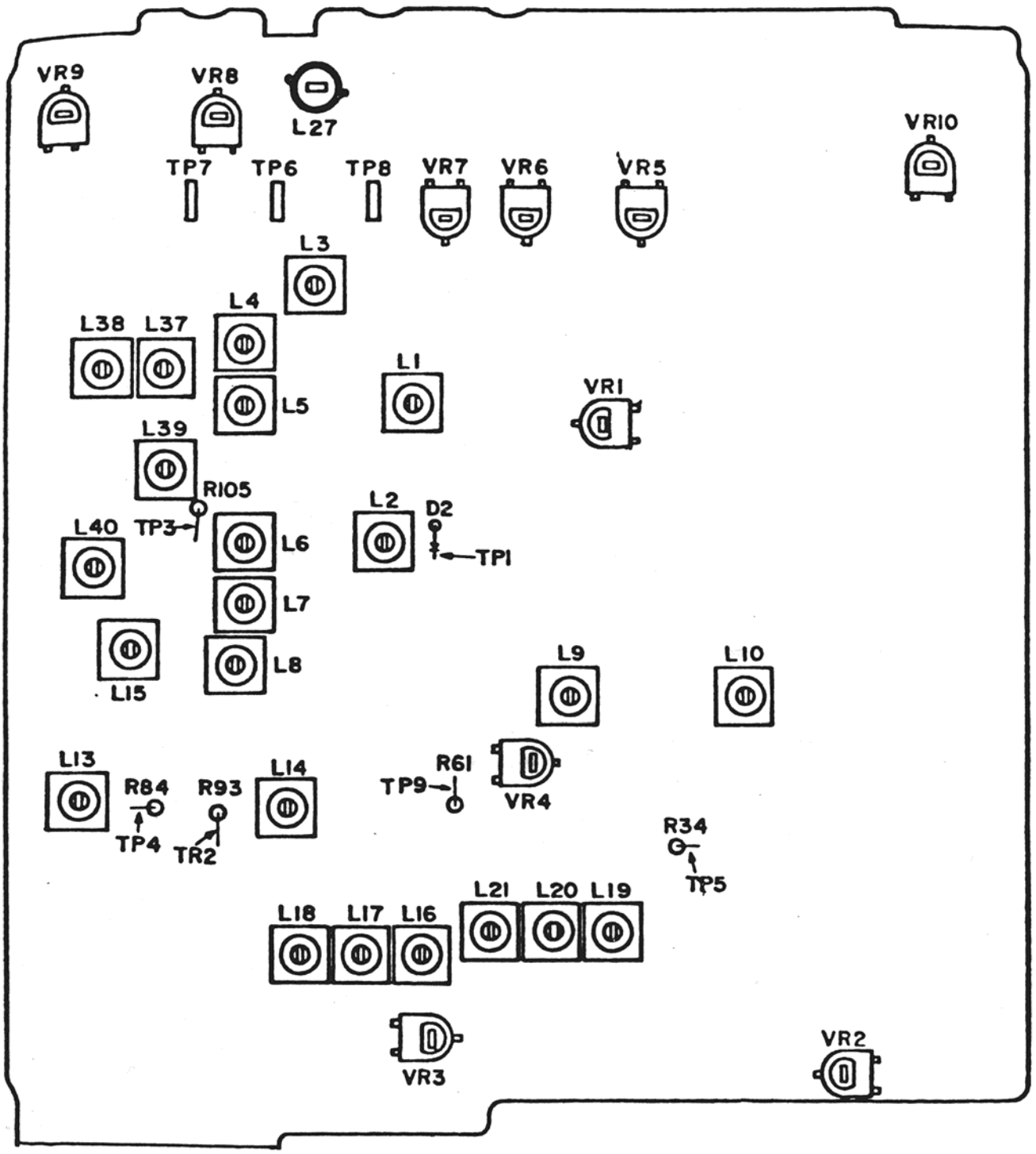
PIN #18 ----- FILTER AMPLIFIER INPUT

PIN #19 ----- FILTER AMPLIFIER OUTPUT (OPEN DRAIN)

PIN #20 ----- NO CONNECTION

PIN #21 ----- GROUND

PIN #22 ----- PROGRAMMABLE DIVIDER INPUT


VR9
VR8
L27
VR10
TP7
TP6
TP8
VR7
VR6
VR5
L3
L4
L38
L37
L1
VR1
L5
L39
R105
L2
D2
TP3
L40
L6
TP1
L7
L15
L8
L9
L10
L13
R84
R93
L14
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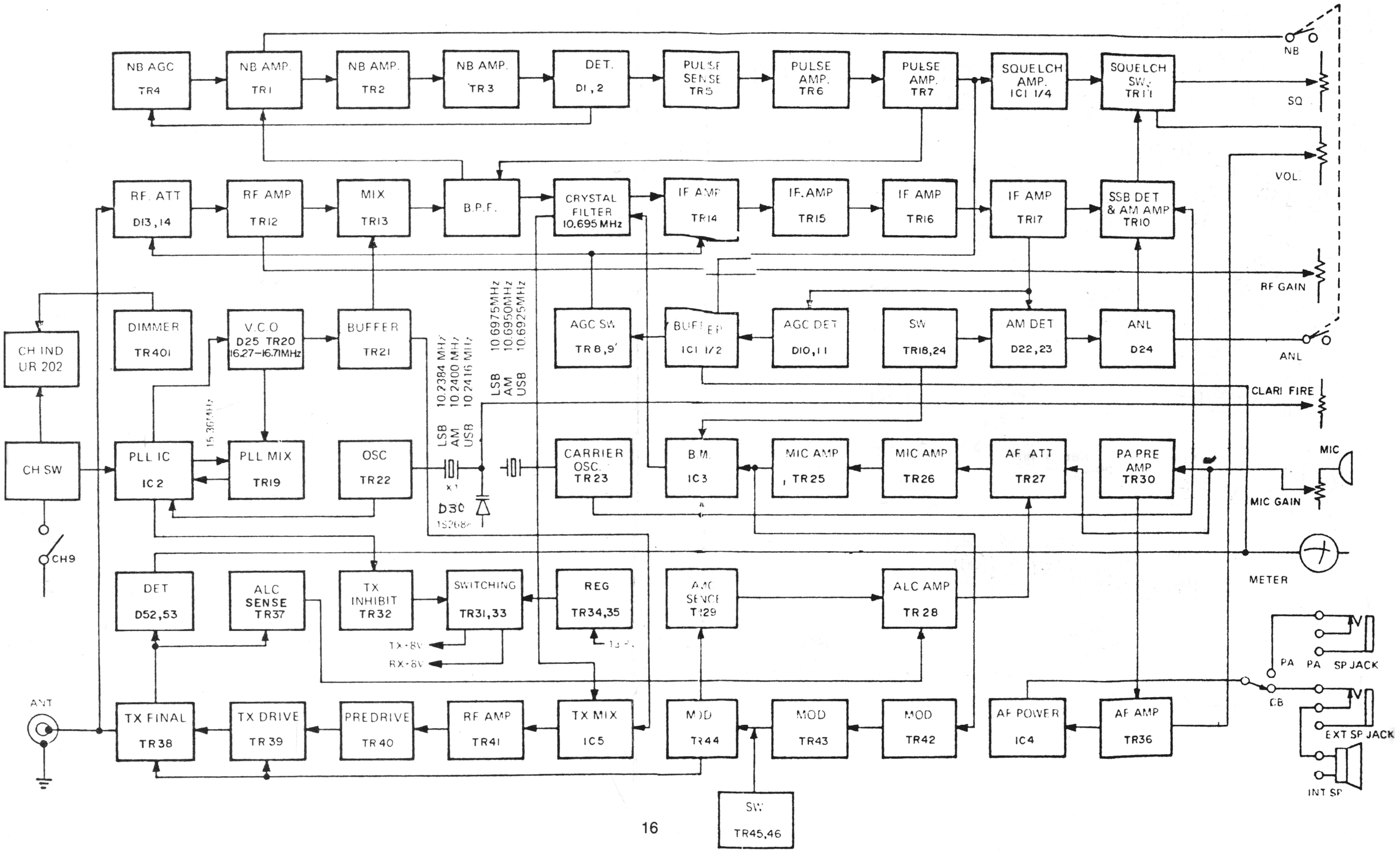
L17
L16
VR3
VR2


NB AGC TR4
NB AMP. TR1
NB AMP. TR2
NB AMP. TR3
DET. D1, 2
PULSE SENSE TR5
PULSE AMP. TR6
PULSE AMP. TR7
SQUELCH AMP. IC1 1/4
SQUELCH SW. TR11
NB
SQ
VOL.
RF. ATT D13, 14
RF AMP TR12
MIX TR13
B.P.F.
CRYSTAL FILTER 10.695 MHz
IF AMP TR14
IF AMP TR15
IF AMP TR16
IF AMP TR17
SSB DET & AM AMP TR10
RF GAIN
CH IND UR 202
DIMMER TR401
V.C.O D25 TR20 16.27–16.71MHz
BUFFER TR21
10.6975MHz
10.6950MHz
10.6925MHz
LSB
AM
USB
AGC SW. TR8, 9
BUFFER IC1 1/2
AGC DET D10, 11
SW TR18, 24
AM DET D22, 23
ANL D24
ANL
CLARI FIRE
CH SW
PLL IC IC2
PLL MIX TR19
OSC TR22
10.2384 MHz
10.2400 MHz
10.2416 MHz
X1
D30
CARRIER OSC. TR23
B.M. IC3
MIC AMP TR25
MIC AMP TR26
AF ATT TR27
PA PRE AMP TR30
MIC
MIC GAIN
METER
CH9
DET D52, 53
ALC SENSE TR37
TX INHIBIT TR32
SWITCHING TR31, 33
REG TR34, 35
ALC SENCE TR29
ALC AMP TR28
TX-8V
RX-8V
PA
PA SP JACK
CB
EXT SP JACK
INT SP
ANT
TX FINAL TR38
TX DRIVE TR39
PREDRIVE TR40
RF AMP TR41
TX MIX IC5
MOD TR44
MOD TR43
MOD TR42
AF POWER IC4
AF AMP TR36
SW TR45, 46

PC-833

NOTES
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=10^3 OHM, M=10^6 OHM)
2. RESISTOR WATTAGES ARE 1/8W UNLESS OTHERWISE SPACIFIED.
3. CAPACITANCE VALUES ARE INDICATED IN MICROFARDS UNLESS OTHERWISE NOTED. (P=PICOFARDS)
4. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE SL(LESS THAN 1000PF) OR Z5(MORE THAN 1000PF) UNLESS OTHERWISE NOTED.

MICROPHONE

MIKE

PB-007

PB-008

PB-009

PB-006

PC-266

TR1 2SC1675L TR2 2SC1675L TR3 2SC1730L TR4 2SC945AQ TR5 2SC945AQ TR6 2SA733P TR7 2SC945AQ

TR8 2SC945AQ TR9 2SC945AQ TR10 2SC945AQ TR11 2SC945AQ

IC1 TA75902P

TR12 2SC1674L TR13 2SC1675L TR14 2SC1674L TR15 2SC1675L TR16 2SC1675L TR17 2SC1730L TR18 2SC945AQ

TR19 2SC1675L TR20 2SC1675L TR21 2SC1675L TR22 2SC1675L

IC2 uPD2824C

TR23 2SC1675L TR24 2SC945AQ

IC3 AN612

TR25 2SC945AQ TR26 2SC1312F TR27 2SC945AQ TR28 2SA733P TR29 2SC945AQ TR30 2SC945AQ

TR31 2SB525C TR32 2SC945AQ TR33 2SB525C TR34 2SC945AQ (O) TR35 2SA473

IC4 uPC1182H TR36 2SC945AQ

TR37 2SC1675L TR38 2SC2312C TR39 2SC2166C TR40 2SC1973 TR41 2SC1730L

TR42 2SC945AQ TR44 2SA1012(O) TR43 2SC945AQ TR45 2SC945AQ TR46 2SC945AQ

IC5 S042P

TR401 2SC945AQ

M501 S/RF

VR502 50K-B SQUELCH

VR504 1K-B RF GAIN

VR503 20K-B CLARIFIER

VR505 1K-A MIKE GAIN

VR501 50K-A VOLUME

S404-1 NB/ANL ON OFF

S404-2 NB/ANL ON OFF

S403-1 CB PA

S403-2 CB PA

S405-1 CH 9 OFF

S405-2 OFF CH 9

S406-1 BRI DIM

S406-2 BRI DIM

S401 CHANNEL SW

S501 POWER

J1 PA SP

J2 EXT SP

SP501 INT SP

PL501 METER

J501 MIKE

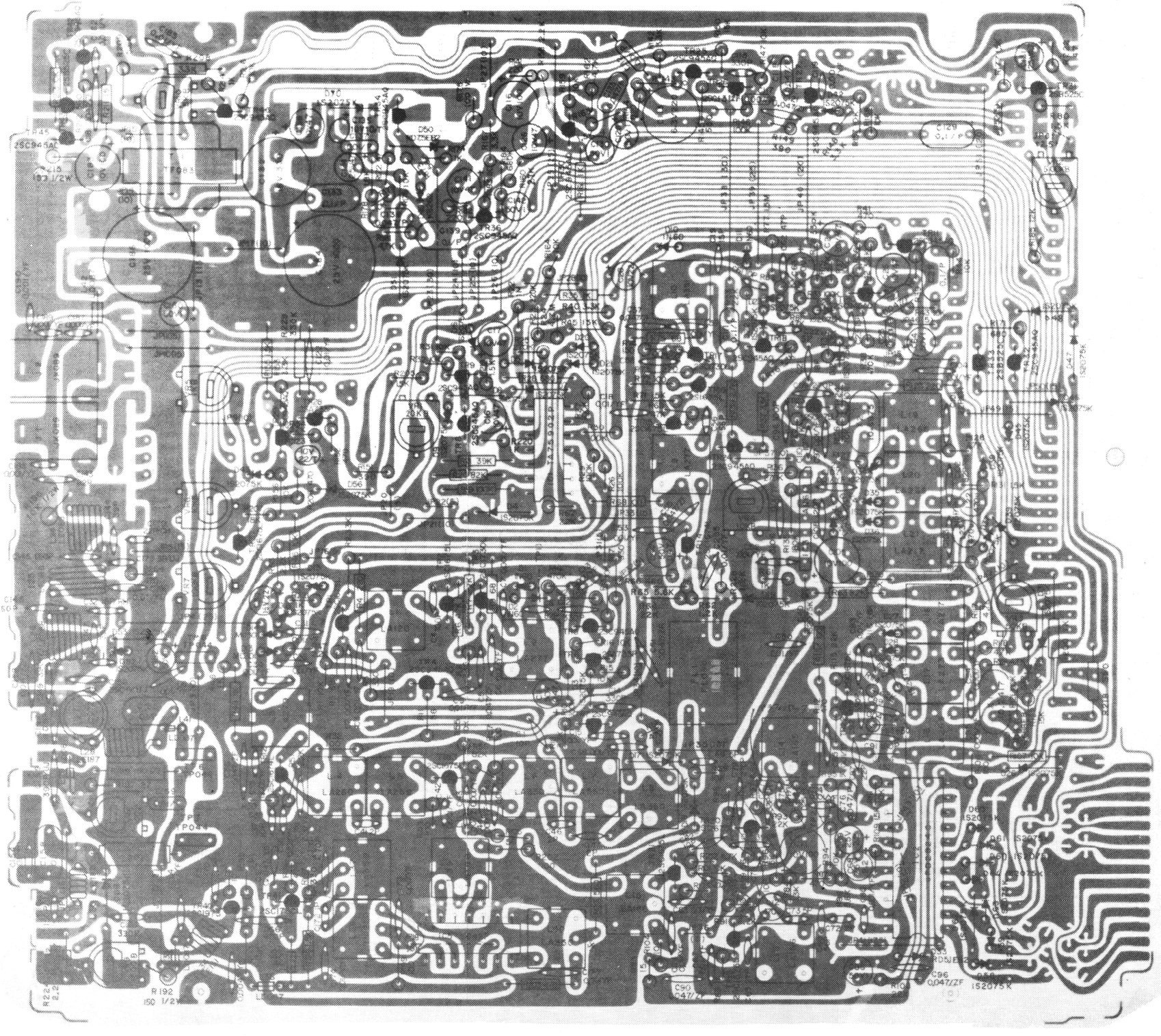
J504 DC 13.8V

J505 ANT

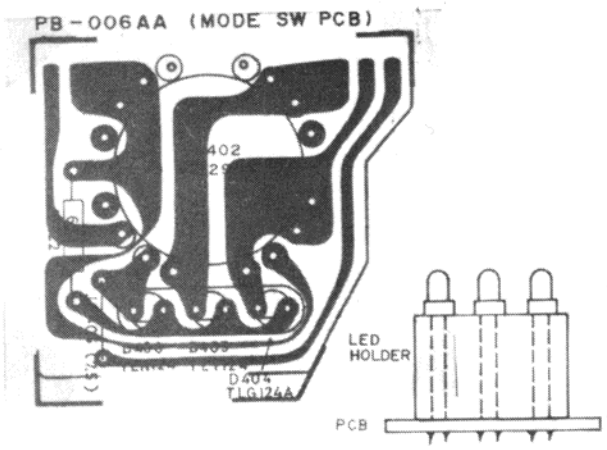
TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8

DESIGN BY	DRAWN BY	UNIDEN NO.	MODEL NO.
		UT-524E	AX-144
CHECKED BY	APPROVED BY	TITLE	
		SCHEMATIC DIAGRAM	
		E12-1844	

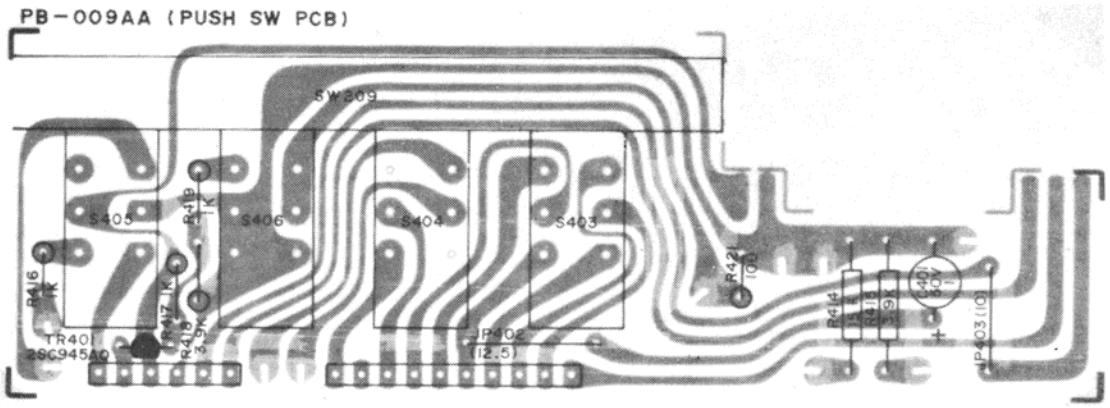
PC-8334L



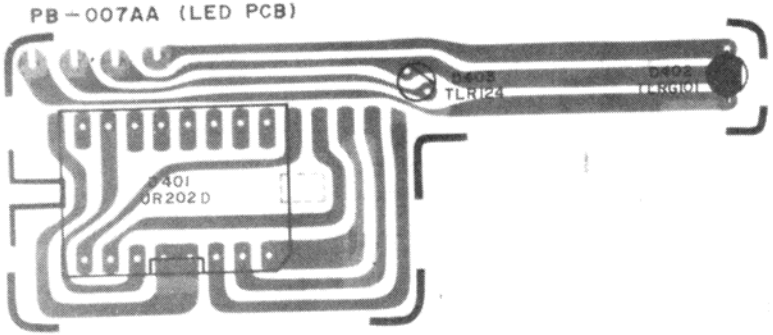
PB-006AA (MODE SW PCB)



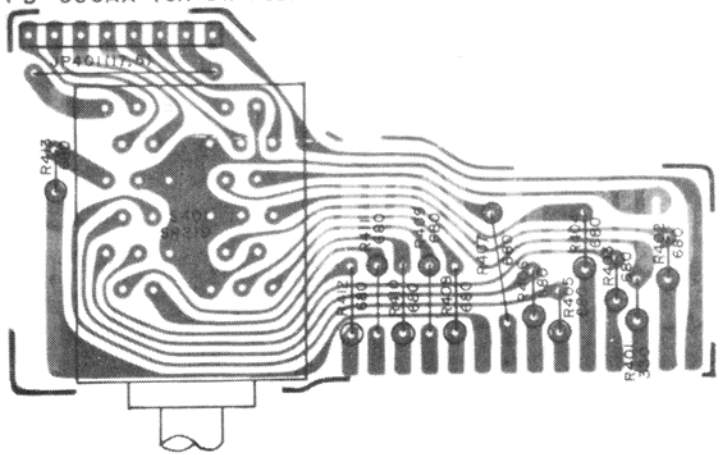
PB-009AA (PUSH SW PCB)



PB-007AA (LED PCB)

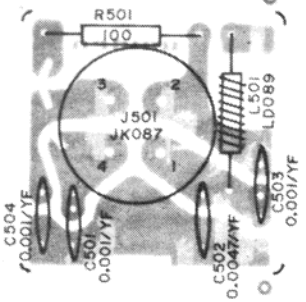


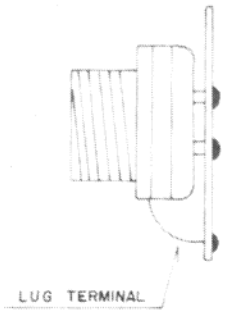
PB-008AA (CH SW PCB)



注）指示なき抵抗は 1/8W である

PC-266AA (MIC JACK PCB)





Part No.	Generic No.	Symbol	Description
3500-074	PC - 833 AD	--	PC Board Main
3500-104	PB - 008 AA	--	PC Board CH SW
3500-105	PB - 007 AA	--	PC Board LED
3500-106	PB - 009 AA	--	PC Board SW
3500-107	PB - 066 AA	Mode SW	PC Board SW
2000-055	TA 75902 P	I C 1	Integrated Circuit
2000-056	MPD 2824 C	I C 2	Integrated Circuit
2000-031	AN 612	I C 3	Integrated Circuit
2000-057	MRC 1182 H	I C 4	Integrated Circuit
2000-034	SO 42 P	I C 5	Integrated Circuit
2000-258	2 SC 945 A - Q	TR 4,5,7,8,9, 10,11,18,24,25, 401,27,29,30,32, 34,36,42,45,46,	Transistor
2000-240	2 SC 1674 - L	TR 12,14	Transistor
2000-213	2 SC 1675 - L	TR 1,2,13,15,16 19,20,21,22,23,37	Transistor
2000-215	2 SC 1973	TR 40	Transistor
2000-277	2 SC 2166 - C	TR 39	Transistor
2000-289	2 SC 2312 - C	TR 38	Transistor
2000-278	2 SB 525 - C	TR 31,33, 43	Transistor
2000-290	2 SC 1312 - F	TR 26	Transistor
2000-279	2 SA 473 - O	TR 35	Transistor
2000-280	2 SA 1012 - O	TR 44	Transistor
2000-218	2 SA 733 - P	TR 6, 28	Transistor
2000-341	MC 301	D 13,14	Diode
2000-320	IN 4003	D 501	Diode
2000-301	IN 60	D 1,2,10,11	Diode
2000-303	IS 2075 K	D 3,4,6,7,8, 9,12,15,16,17, 18,19,20,21,22,23, 24,26,27,28,29, 31, 32,34,35,36,37,38,39, 40,41,42,43,45,46,47, 48,51,52,53,56,58,59, 60,61,62,63,64,65,66, 70,5,73	Diode
2000-344	IS 2688 EB	D 25,30	Diode Van-Cap
2000-306	UR - 202 D	D 401	Diode LED
2000-343	TLRG - 101	D 402	Diode LED
2000-347	TLR - 124	D 403 406	Diode LED
2000-368	TLY - 124	D 405	Diode LED
2000-355	TLG - 124 A	D 404	Diode LED
2000-321	RD 5.1 EB 2	D 33	Diode Zener
2000-311	RD 7.5 EB 2	D 50	Diode Zener
2000-335	KB - 262	D 49	Varistor
2000-339	MV - 1 Y	D 54,55	Varistor
2000-032	PC 266 AA	--	PC Board Mic Jack
2200-549	LA - 120	L 1	Coil
2200-083	LA - 165	L 14	Coil
2200-044	LA - 166	L 13,15,39	Coil
2200-075	LA - 217	L 16, 21	Coil
2200-078	LA - 220	L 38	Coil
2200-069	LA - 259	L 5	Coil
2200-070	LA - 260	L 4	Coil
2200-095	LA - 265	L 18	Coil
2200-096	LA - 266	L 19, 20	Coil

Part No.	Generic No.	Symbol	Description
2200-093	LA - 273	L 17	Coil
2200-089	LA - 277	L 2,9	Coil
2200-504	LA - 279	L 3	Coil
2200-550	LA - 350	L 6,7,8,40	Coil
2200-551	LA - 351	L 10	Coil
2200-552	LA - 352	L 37	Coil
2200-018	LC - 072	L 27	Coil
2200-017	LD - 033	L 31	Coil
2200-103	LD - 077	L 11	Coil
2200-052	LS - 087	L 29,32,33,35,36 41,42	Coil
2200-059	LD -089	L 501	Coil
2200-088	LE - 088	L 24,26	Coil
2200-087	LE - 089	L 25	Coil
2200-553	LE - 151	L 34	Coil
2200-554	LE - 187	L 28	Coil
2200-555	LE - 188	L 30	Coil
2200-040	LZ - 012	L 12,22,23	Coil
2300-001	TF - 083	T 1	Transformer AF choke
1900-228	RV 182 100 B	VR 8	R Semi-fixed
1900-220	RV 182 1 KB	VR 5	R Semi-fixed
1900-205	RV 182 500 B	VR 9	R Semi-fixed
1900-230	RV 182 5 KB	VR 10	R Semi-fixed
1900-154	RV 182 10 KB	VR 4.6	R Semi-fixed
1900-153	RV 182 50 KB	VR 3	R Semi-fixed
1900-202	RV 182 100 KB	VR 7	R Semi-fixed
1900-204	RV 182 20 KB	VR 1	R Semi-fixed
2200-317	FL - 090	FL 1	Filter Crystal
3000-119	SR - 219	S 401 Channel	Switch Rotary
3000-147	SR - 298	5402 Mode	Switch Rotary
3000-042	SW - 209	S 403,404,405 406	Switch Rotary
1900-133	RV - 329	VR 501,502,S 501	R Variable
1900-151	RV - 485	VR 504, 505	R Variable
1900-152	RV - 222	VR 503 (clarifier)	R Variable
2100-021	QX - 122	X 1	Crystal
2100-022	QX - 122	X 2	Crystal
3100-009	SP- 057	Sp 501	Speaker
2900-012	MT - 206	M 501	Meter
3200-005	MK - 221	--	Microphone
1100-003	JK - 052	J 504	Receptacle DC Power
1100-002	JK - 035	J 505	Jack Antenna
1100-021	JK - 089	J 1,2	Jack Speaker
1100-104	TP - 044	TP 6,7,8	Terminal Check Point
3400-236	YD - 047	IC 4	Insulation Sheet
3400-212	YD - 041	TR 35,44	Insulation Sheet
3400-401	YY - 027	TR 38,39	Insulation Sheet Almina
2700-007	W - 070234	--	DC Power Cord

Part No.	Generic No.	Symbol	Description
3300-209		ABS CR-1	Mounting Bracket
3300-401		SPCC T-1.0	Hanger Microphone
3300-559		ABS CR-1	Panel Front
1300-001		ABS CR -1	Knob Channel
1300-002		ABS CR-1	Knob
1300-005		ABS CR-1	Knob
1300-011		ABS CR-1	Knob
1300-012		ABS CR-1	Knob
1300-003		ABS CR-1	Knob Core Push Button
1100-202		ABS CR-1	Screw Mounting
3400-617			Nameplate Control
3400-108			Optical Filter Display
3400-162			Nameplate Brand
1100-315			Washer Rubber
1700-201			Label Serial No.
1600-004			Label Warning DC Cord
1100-702			Screw Pan Hd Plastic
1100-703			Screw Bind Hd
1100-704			Screw Bind Hd
1100-705			Screw Bind Hd
1100-707			Tapping Screw Bind
1100-725			Tap Tight Screw Bind Hd
1100-778			Tap Tight Screw Bind Hd
1100-708			Tapping Screw Round Hd
1100-709			Tapping Screw Round Hd
1100-710			Nut Flange
1100-711			Washer Lock
1100-712			Washer Star
1100-309			Spring Plate Knob
1100-310			Spring Plate Knob
1100-305			Spring Plate Knob
1100-308			Rivet AL ID Plate
1500-008			Styrofoam Pad
1500-108			Styrofoam Pad
1500-253			Display Box
1600-194			Owners Instruction Manual
1600-195			Schomatic Diagram
1600-201			Warranty Card
1600-501			FCC Rules Part 95 FCC