

Service Manual

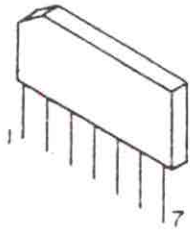
CB TRANSCEIVER

Model GRANT

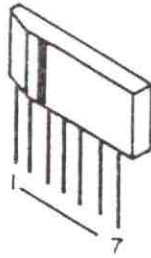
UT - 543A

uniden®
CORPORATION

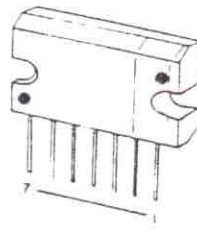
μPC1028H



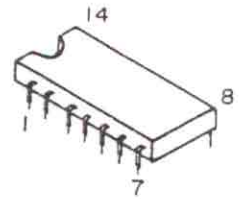
AN612



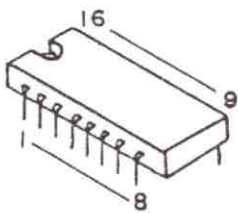
μPC1182H



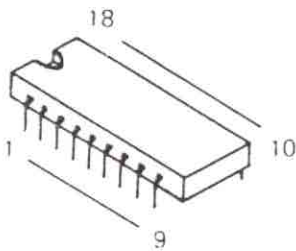
TA75902P
SO42P



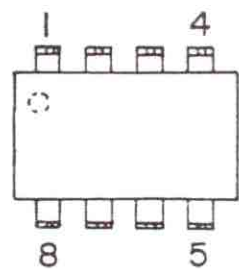
TC4008BP



MB8719



NJM4558D



TRANSISTORS

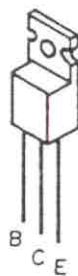
- 2SA733
- 2SC945
- 2SC1674
- 2SC1675
- 2SC1730
- 2SC1973



2SB525



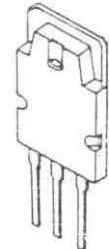
- 2SA473
- 2SC2312
- 2SC2166



2SD471

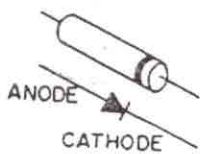


2SB754

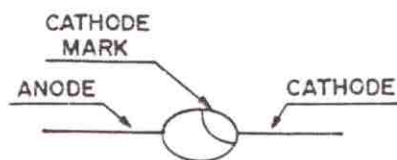


DIODES

- 1N60
- 1S2075
- MC301
- 1N4003
- 1S2688
- 1S2339
- RD7.5EB2
- RD5.1EB2



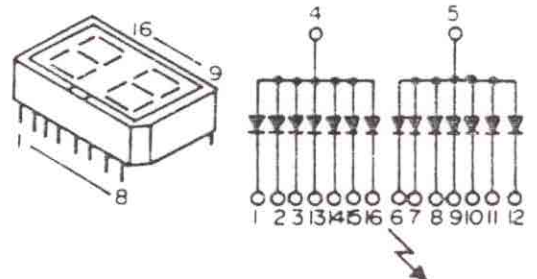
- KB262
- KB362



- TLR124
- TLG124G



UR202



	F(RF)	F (LOCAL)
1	26.965	16.27
2	26.975	16.28
3	26.985	16.29
4	27.005	16.31
5	27.015	16.32
6	27.025	16.33
7	27.035	16.34
8	27.055	16.36
9	27.065	16.37
10	27.075	16.38
11	27.085	16.39
12	27.105	16.41
13	27.115	16.42
14	27.125	16.43
15	27.135	16.44
16	27.155	16.46
17	27.165	16.47
18	27.175	16.48
19	27.185	16.49
20	27.205	16.51
21	27.215	16.52
22	27.225	16.53
23	27.255	16.56
24	27.235	16.54
25	27.245	16.55
26	27.265	16.57
27	27.275	16.58
28	27.285	16.59
29	27.295	16.60
30	27.305	16.61
31	27.315	16.62
32	27.325	16.63
33	27.335	16.64
34	27.345	16.65
35	27.355	16.66
36	27.365	16.67
37	27.375	16.68
38	27.385	16.69
39	27.395	16.70
40	27.405	16.71

F local : +2.5 KHz (BLS)
-2.5 KHz (BLT)

Fréquence du quartz :
15.4525 MHz (BLS)

ALIGNMENT OF RECEIVER

1. TEST EQUIPMENT REQUIRED

- A. RF signal generator
- B. DC power supply (13.8V)
- C. AF VTVM
- D. 8 Ohm load
- E. oscilloscope AF
- F. oscilloscope (0-50 Mhz)

2. ALIGNMENT PROCEDURE

STEP	PRESET TO	ADJUSTMENT	REMARKS
1	MODE : RX, AM MID : 19CH AF VR : CW MAX. SQ VR : CCW MAX. RF GAIN : CW MAX. CLARIFIER : CENTER MOD, S/RF : S/RF NB/ANL, OFF : OFF	L8	ADJUST THE SG ON 27,185 Mhz, WITH 1KHz, 30% MODULATION ADJUST L8
2	SAME AS STEP 1	L7, 9, 11, 12 13, 52, 3, 4 5	ADJUST LEVEL OF SG TO OBTAIN 2V ON AF VTVM THE ADJUSTED COILS FOR MAX. READING ON AF VTVM
3	SAME AS STEP 1	L8	ADJUST TO OBTAIN MIN. DIFF. BETWEEN CH40 AND CH1
4	SAME AS STEP 1	VR1	SET THE LEVEL OF SG TO 100 MV ADJUST VR1 FOR "5-9" READING ON TRASC. METER
5	SAME AS STEP 1	VR4	SET SQ.VR ON MAX. ADJUST LEVEL OF SG TO 1000 HV; ADJUST VR4 SO THAT THE RADIO SIGNAL WILL APPEAR ON OSCILLATOR; SET SQ VR ON MIN.
6	SAME AS STEP 1 MODE : USB	L14, 15	SET RF GEN ON 27,186 MHz - ADJUST THE COIL TO OBTAIN MAX. DEVIATION ON AF VTVM
7	SAME AS STEP 1	VR2	SET LEVEL OF SG ON 100 uV ADJUST VR2 TO OBTAIN "S9" ON TR. METER
8	SAME AS STEP 1 SQ VR : CW MAX.	VR3	SET LEVEL OF SG TO 1000 uV ADJUST VR3 SO THAT THE AUDIO SIGNAL WILL APPEAR ON OSCIL.
9	SAME AS STEP 1 NB/ANL, OFF: ON MID, 18CH, USB	L1, 2	SET SG ON 27,185 MHz, 0% MOD., 10 uV LEVEL; CONNECT OSCIL. ON D2 AND ADJUST THE COILS TO OBTAIN MAX. DEVIATION
10	SAME AS STEP 1 MODE : FM	L6	SET SG ON 27,185 MHz WITH 1 KHz DEVIATION; LEVEL ON 1000 uV ADJUST LG TO OBTAIN MAX.

ALIGNMENT OF PLL AND CARRIER OSCILLATOR

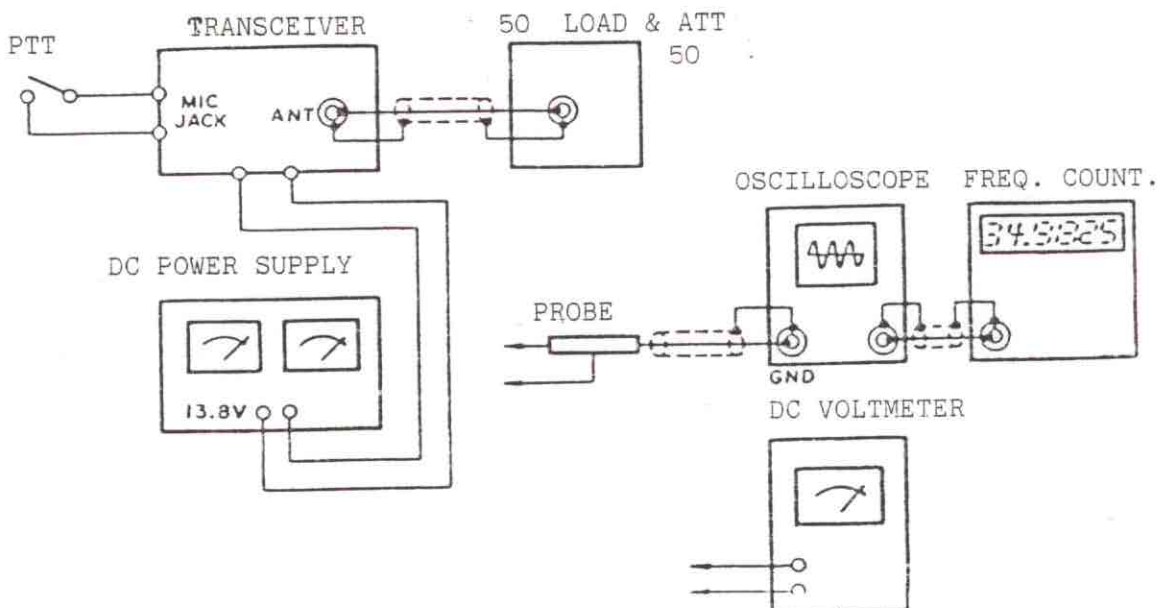
1. TEST EQUIPMENT REQUIRED

- A. oscilloscope (50 MHz)
- B. frequency counter
- C. DC power supply (19,8 V)
- D. 50 Ohm load
- E. DC Volt meter

2. ALIGNMENT PROCEDURE

STEP	PRESET TO	ADJUSTMENT	REMARKS
1	MODE : RX, AM MID 19CH	OSCILLOSCOPE ON TP.4	ADJUST TO L17 TO OBTAIN MAX. READING
2	MODE : RX, AM MID 40CH	DC VOLT METER ON TP.2	ADJUST TO L18 TO OBTAIN 5,5 V
3	MODE : RX, AM MID 19CH	OSCILLOSCOPE ON TP.3	ADJUST TO L19 TO OBTAIN MAX. READING
4	MODE : RX, AM MID 19CH	FREQUENCY CNT ON TP.3	ADJUST TO L25 TO OBTAIN 16,490 MHz
5	MODE : RX, USB MID 19CH	FREQUENCY CNT ON TP.3	ADJUST TO L26 TO OBTAIN 16,4925 MHz
6	MODE : RX, LSB MID 19CH	FREQUENCY CNT ON TP.3	ADJUST TO L27 TO OBTAIN 16,4875 MHz
7	MODE : TX, LSB MID 19CH	FREQUENCY CNT ON TP.3	ADJUST TO VR6 TO OBTAIN 16,875 MHz
8	MODE : RX, AM MID 19CH	FREQUENCY CNT ON TP.3	ADJUST TO L22 TO OBTAIN 16,040 MHz
9	MODE : RX, USB MID 19CH	FREQUENCY CNT ON TP.3	ADJUST TO L23 TO OBTAIN 16,0425 MHz
10	MODE : RX, LSB MID 19CH	FREQUENCY CNT ON TP.3	ADJUST TO L24 TO OBTAIN 16,0375 MHz
11	MODE : RX, LSB	FREQUENCY CNT ON TP.6	ADJUST TO L30 TO OBTAIN 16,6975 MHz
12	MODE : RX, USB	FREQUENCY CNT ON TP.6	ADJUST TO L29 TO OBTAIN 10,6925 MHz
13	MODE : TX, AM	FREQUENCY CNT ON B FROM TR43	ADJUST TO L28 TO OBTAIN 10,6950 MHz

TEST EQUIPMENT CONNECTION



ALIGNMENT OF TRANSMITTERS

1. TEST EQUIPMENT REQUIRED

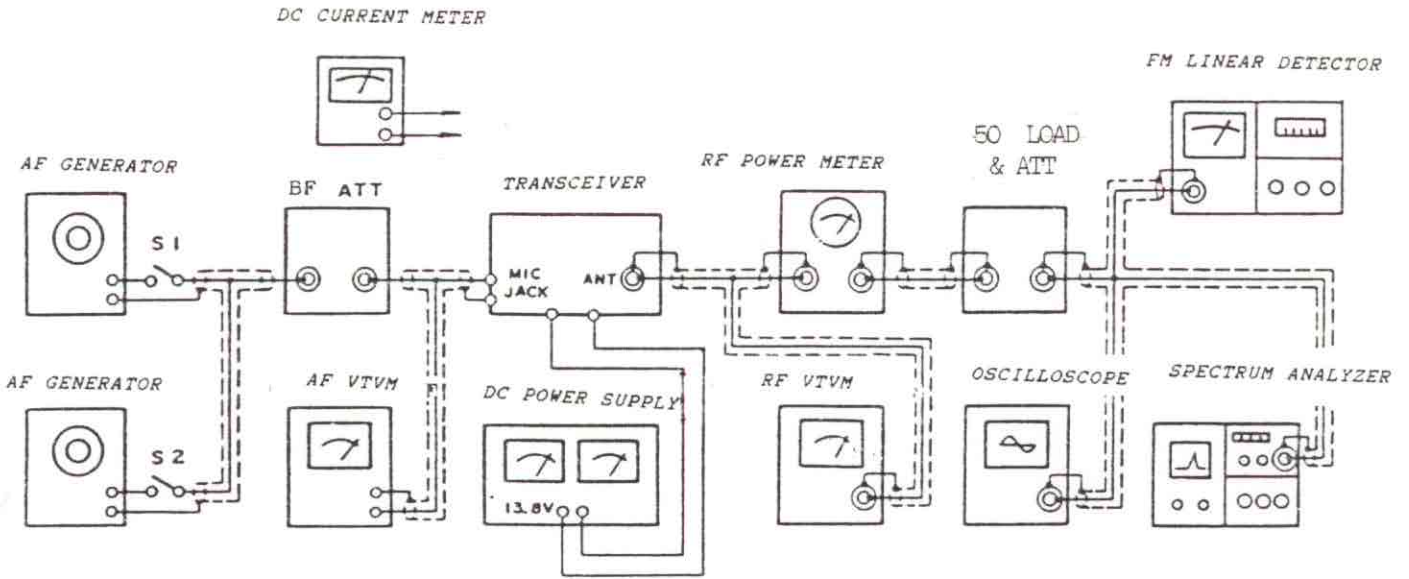
- | | |
|---------------------|----------------------|
| A. 2 AF generator | F. frequency counter |
| B. RF power meter | G. 500 Ohm load |
| C. DC power supply | H. RF VTVM |
| D. DC current meter | I. oscilloscope |
| E. AF VTVM | J. spectrum analyzer |

2. ALIGNMENT PROCEDURE

STEP	PRESET TO	ADJUSTMENT	REMARKS
1	MODE : TX, USB S1, 2 : OFF	VR11	DISCONNECT PC 834AA, CONNECT DC CURRENT METER ON TP9 (+); TP8(-). ADJUST FOR 50 mA ON DC CURRENT METER
2	SAME AS STEP 1	VR9	CONNECT DC CURRENT METER ON TP9(+); TP8(-); ADJUST VR 10 MIN, THEN ADJUST VR9 TO OBTAIN 4 mA, ADJUST VR10 TO OBTAIN 80 mA ON DC CURRENT METER
3	SAME AS STEP 1		
AFTER STEP 1, 2, 3 RESTORE CIRCUIT PC834AA			
4	MODE : TX, USB S1, 2 : ON (2,4 KHz & 0,5 KHz)	L46	SET THE CORE OF L46 TO THE BOTTOM, ADJUST VR12 TO THE MIN.
5	SAME AS STEP 4	L45, L48 L49	ADJUST THE CORES TO OBTAIN MAX. DEVIATION ON THE RF VTVM; REPEAT THIS OPERATION WITH LOWER AF LEVELS ON MIC CIRCUIT
6	SAME AS STEP 4	L46	ADJUST TO OBTAIN MAX DEVIATION ON RF VTVM; ADJUST TO OBTAIN A MIN. POWER DIFF. BETWEEN CH40 HI AND 1 LOW
7	MODE : TX, AM S1 : ON (1 KHz) MID : 19CH	L37	ADJUST TO OBTAIN MAX. DEVIATION ON S/RF VTVM
8	SAMES AS STEP 4	VR12	ADJUST TO OBTAIN 32,4 V ON RF VTVM
9	SAME AS STEP 1	VR7	ADJUST TO OBTAIN THE MIN. DIFF. BETWEEN USB AND LSB WITH THE SPEC. ANALY.
10	MODE : TX, AM S1, 2 : OFF	VR13	ADJUST TO OBTAIN 10W (4W) ON RF POWER METER
11	SAME AS STEP 10	VR8	SET SWITCH ON S/RF ADJUST VR8 TO SET S-METER BETWEEN THE RED AND GREEN FIELD
12	MODE : TX, AM S1 : ON	VR14	SET THE AF GEN ON 1 KHz, 30 mV ADJUST VR14 TO OBTAIN 90% MODULATION ON THE OSCILLOSCOPE
13	MODE : TX, FM S1 : ON	VR5	SET THE AF GEN. ON 1 KHz, 30 mV ADJUST VR5 TO OBTAIN +/- 2 kHz DEVIATION ON THE S-METER
14	MODE : TX, AM S1 : ON	VR15	SET SWITCH ON MOD, SET GEN. TO OBTAIN 50% MOD. ON THE OSCILL. ADJUST LEVEL OF AF GEN. TO 16 DB; ADJUST VR15 TO OBTAIN 100% MOD. ON S- METER

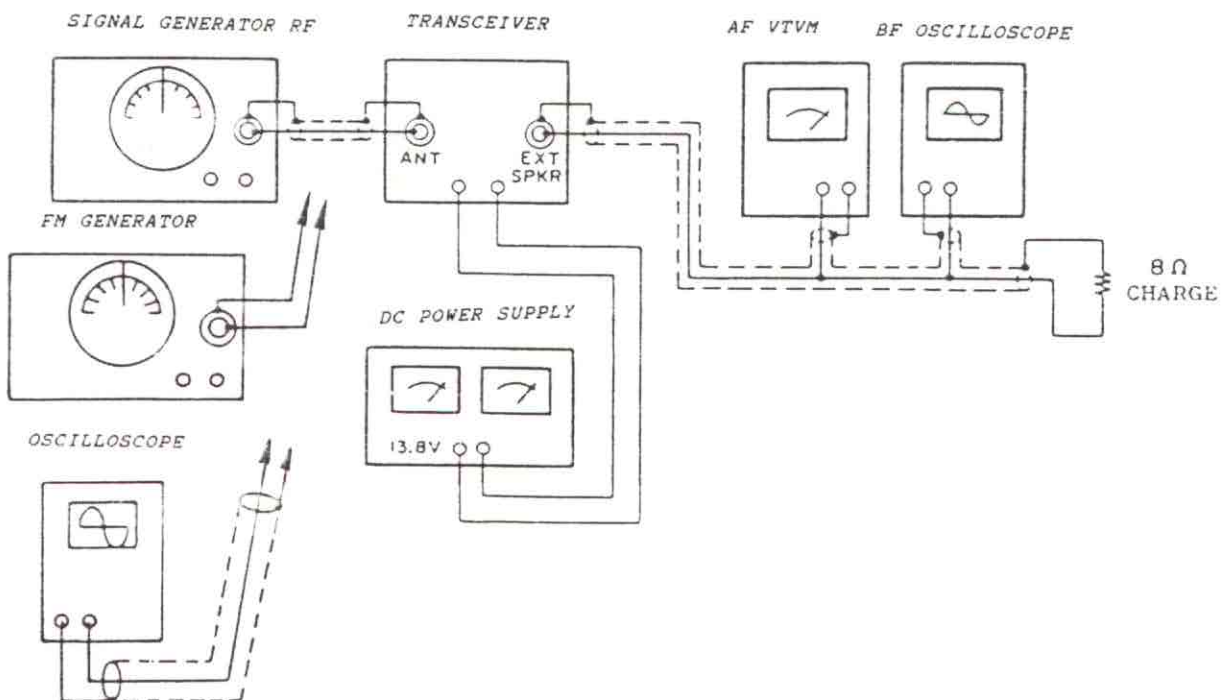
TEST EQUIPMENT CONNECTION

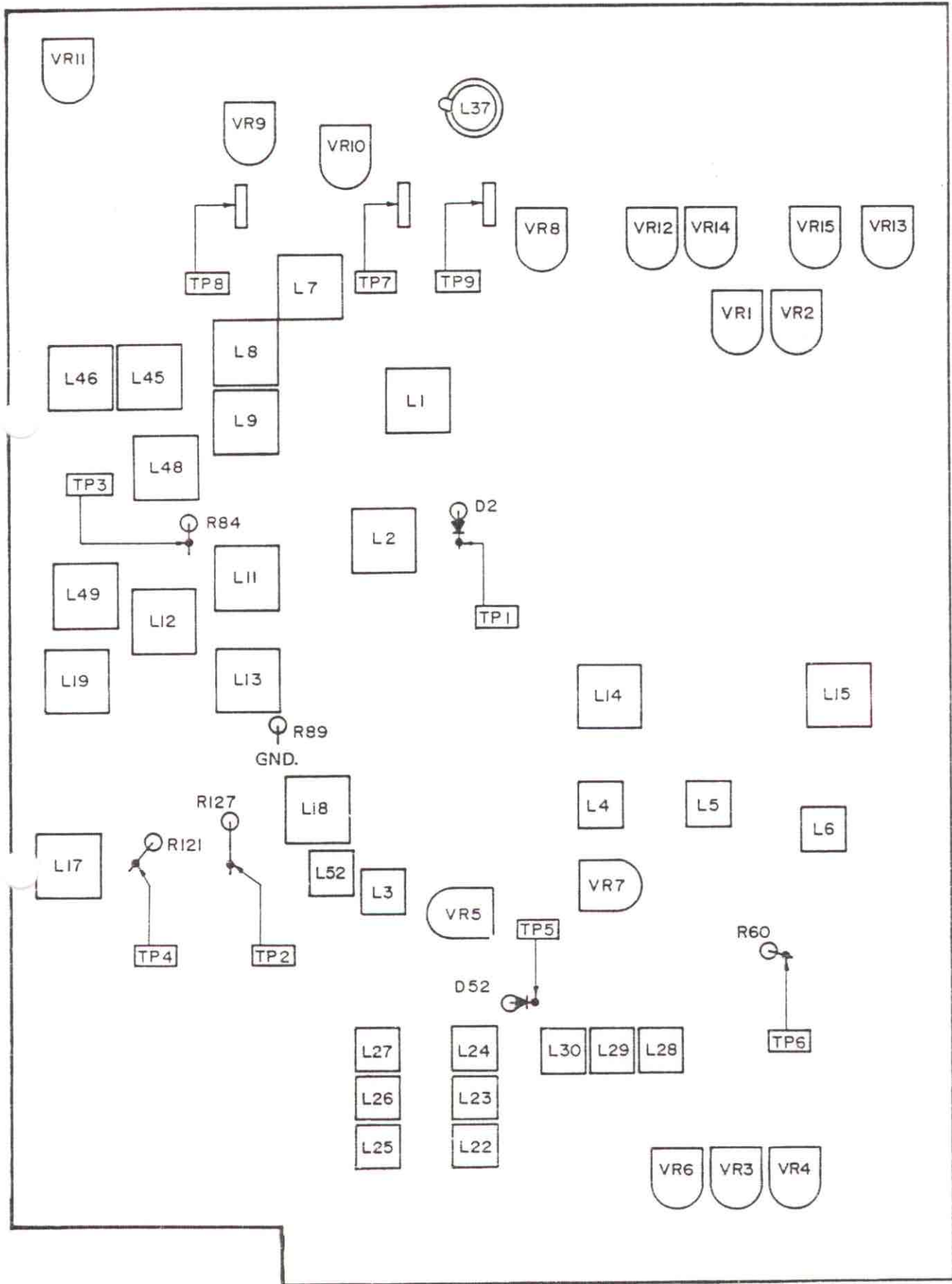
ALIGNMENT OF TRANSMITTER

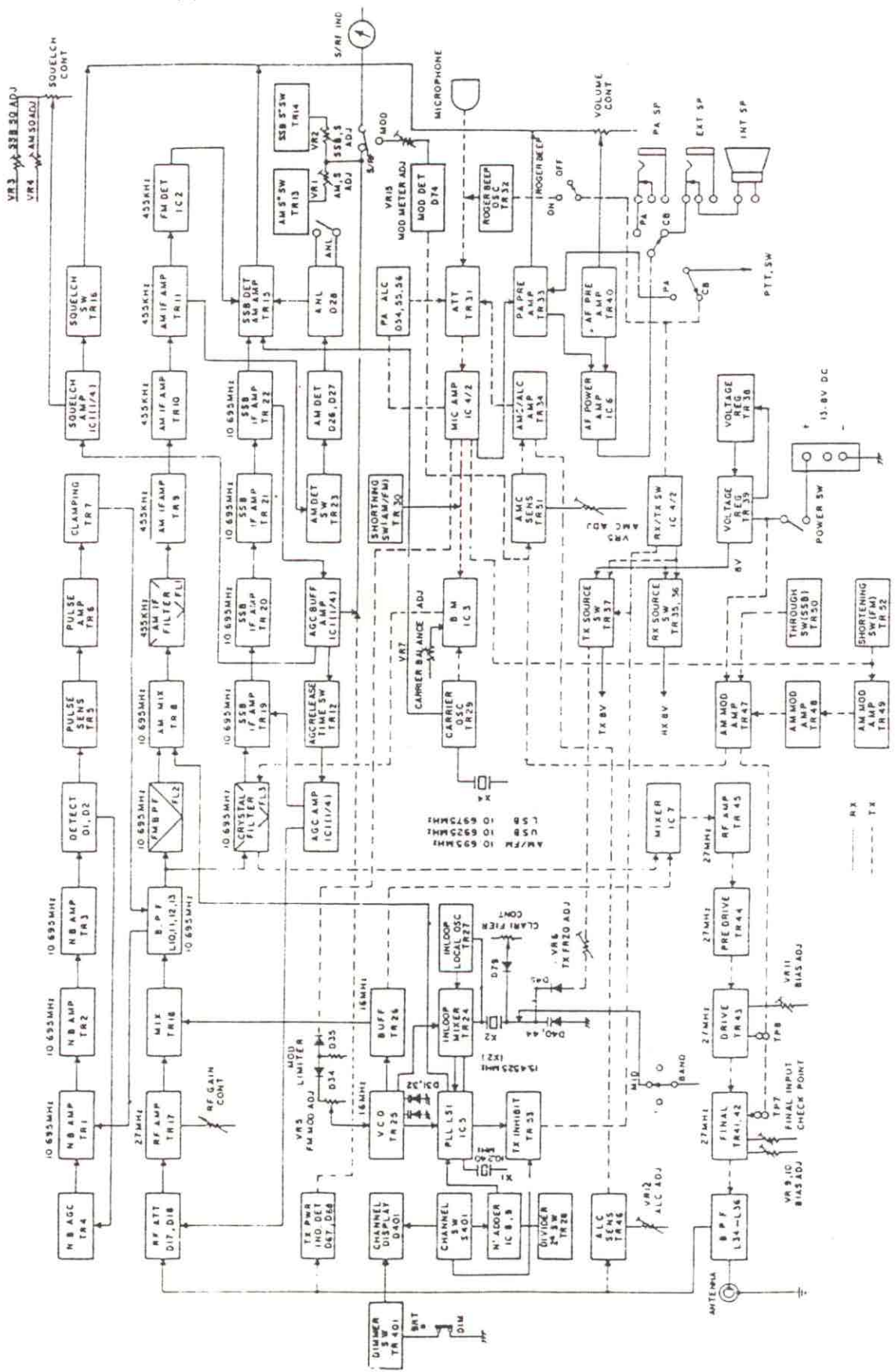


TEST EQUIPMENT CONNECTION

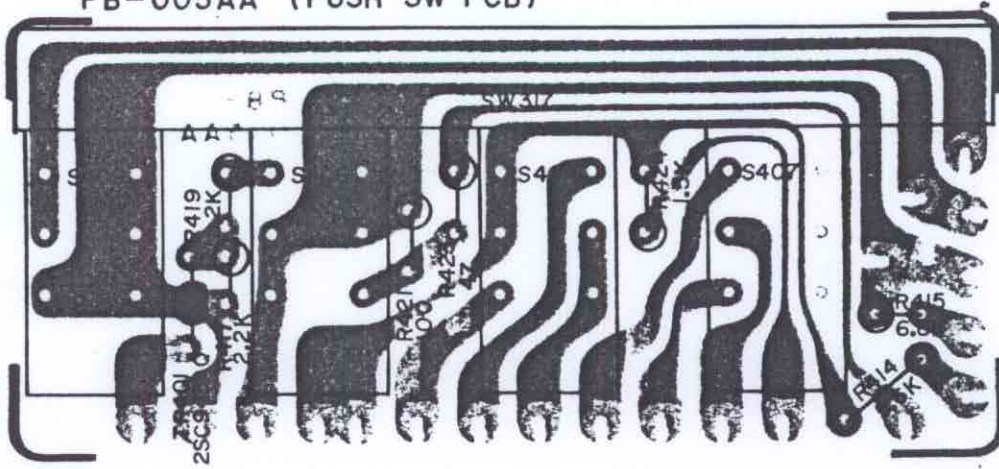
ALIGNMENT OF RECEIVER



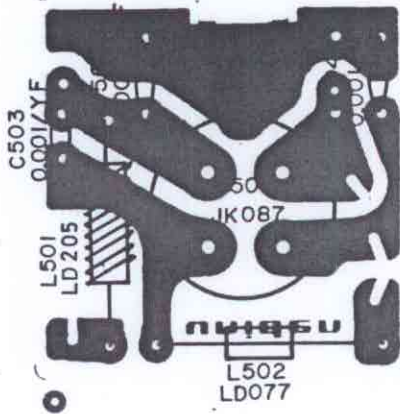




PB-005AA (PUSH SW PCB)



●PC-266AA (MIC JACK PCB)



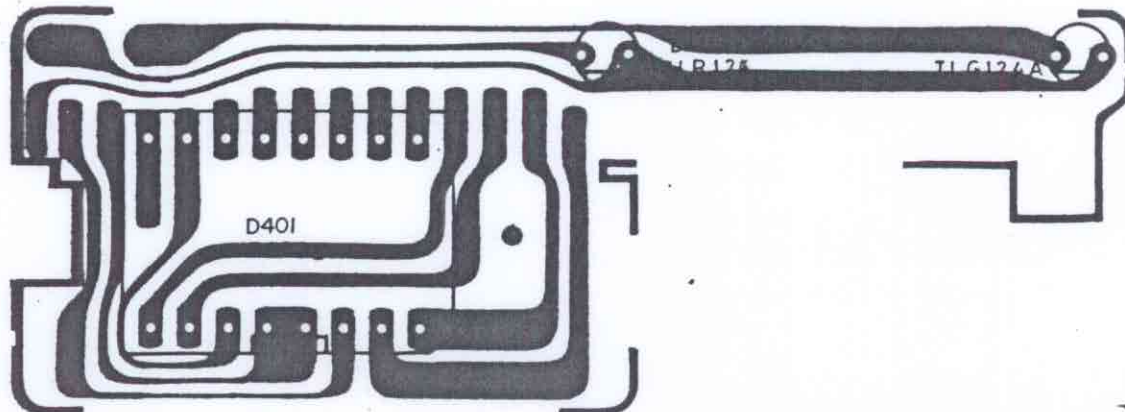
注) 指示用抵抗は、1/8Wである

UT-543B

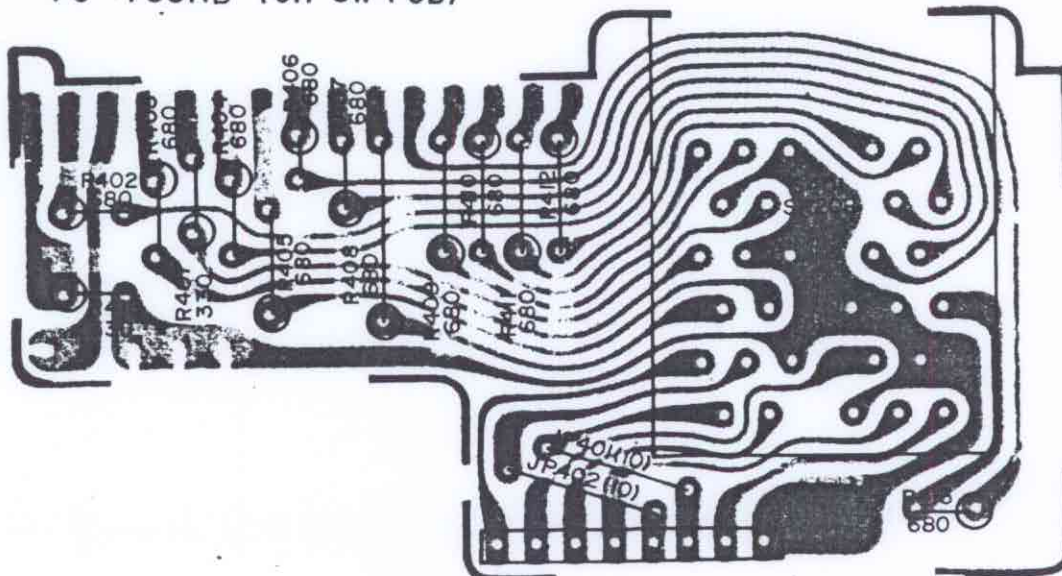
9

機 種 名	UT-543A		
図 名	部品取付図		
図 番	E23-3745		
承認	検図	組立	作図
	山下	天野	3.55.12.18
			7th

PC-960AA (LED PCB)

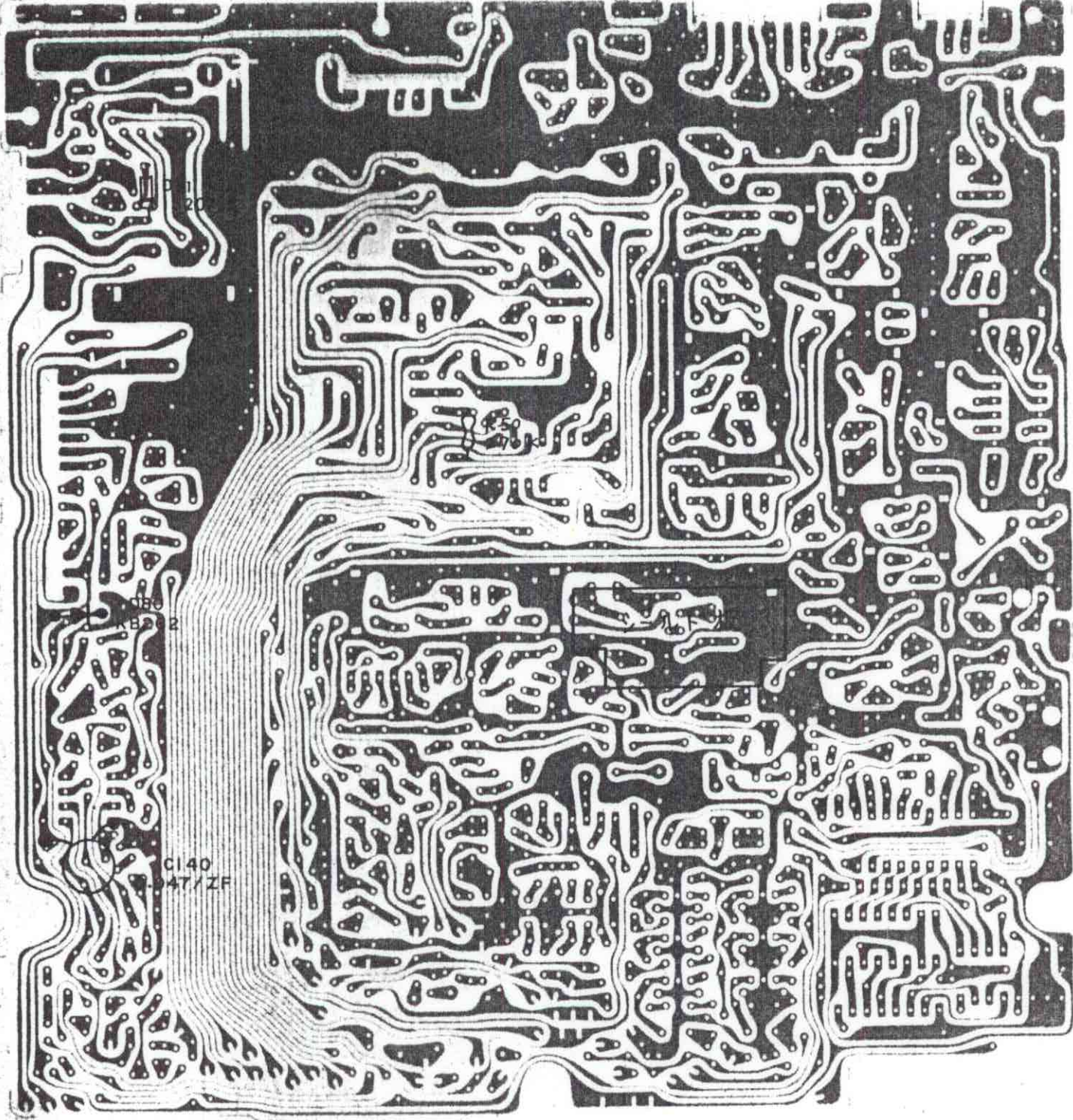


PC-783AB (CH SW PCB)



PG-999AB

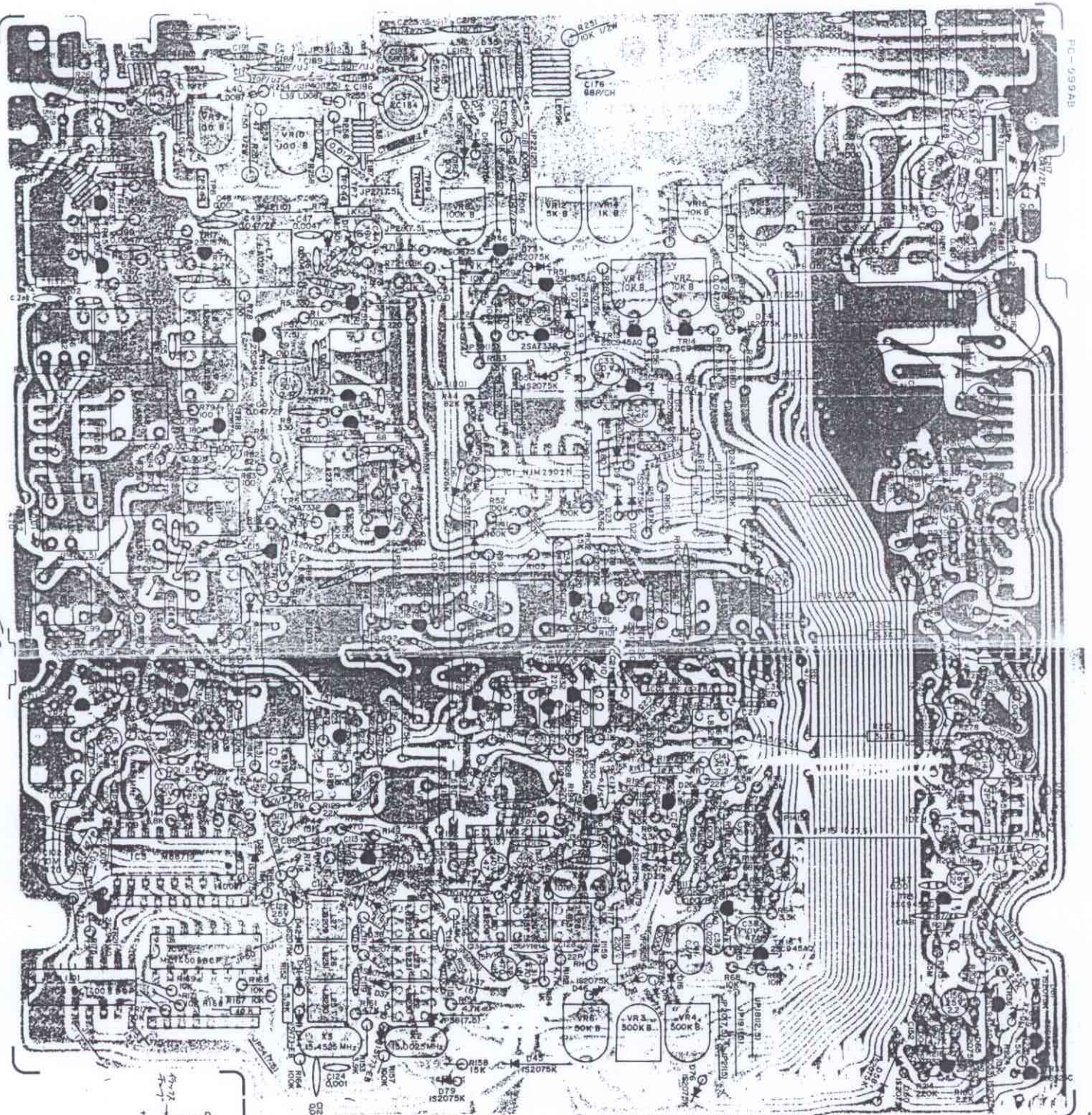
E24-3746



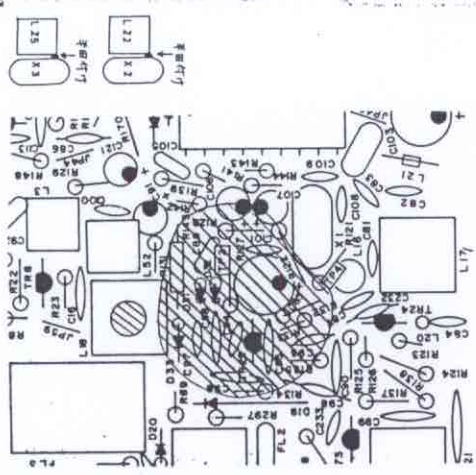
機種名	UT-543A	
図名	裏部品取付図	
図番	E24-3746	
承認	因組当	作成
	4.2.7	SS6.2.3
	大野	124

UT-543B





12



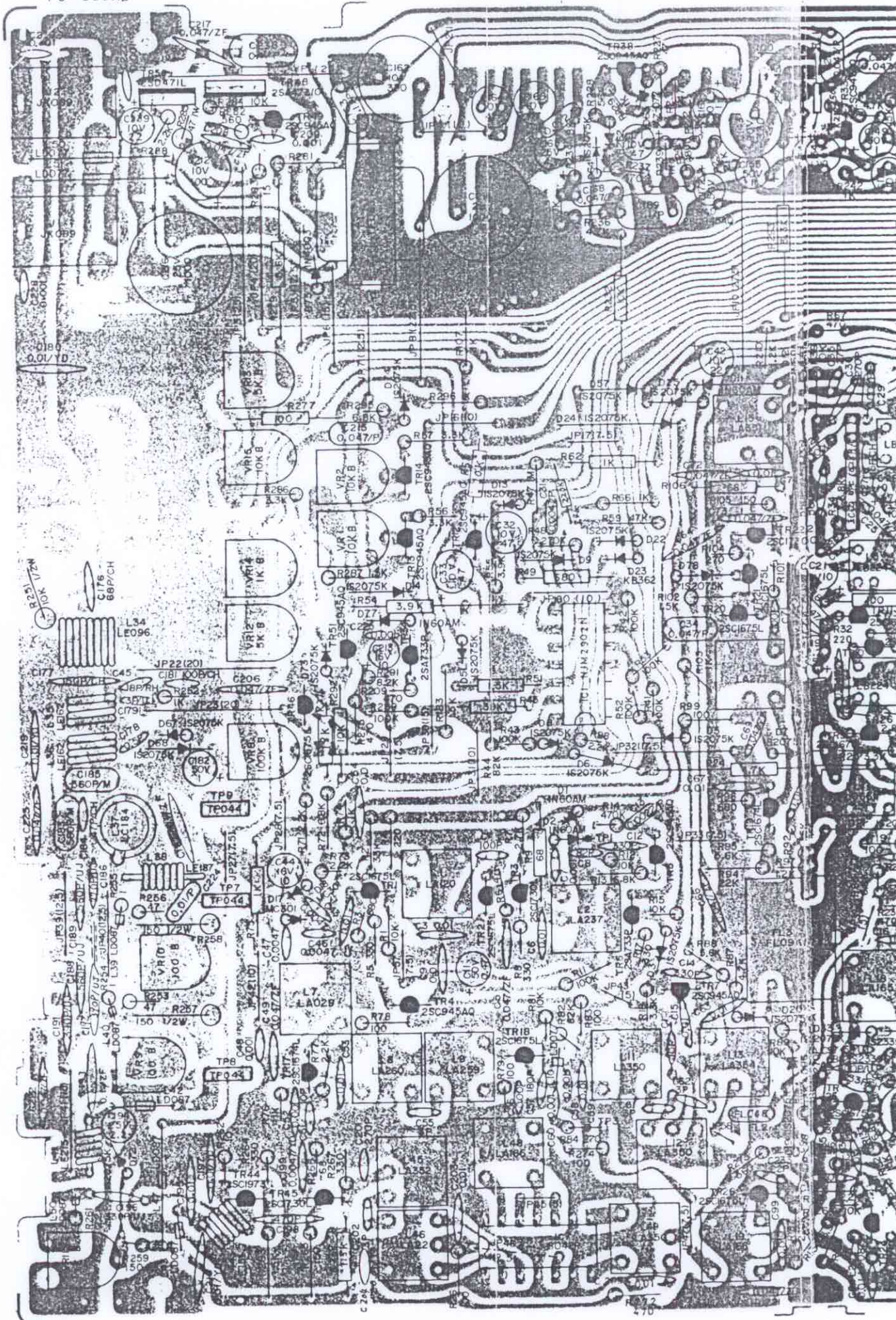
斜線部は20μFの電解

- NOTES:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILLO OHM, M=MEG OHM)
 2. RESISTOR WATTAGES ARE I/BW UNLESS OTHERWISE NOTED.
 3. CAPACITANCE VALUES ARE INDICATED IN MICROFARADS UNLESS OTHERWISE NOTED. (P=PICTO-MICROFARAD)
 4. ALL CAPACITORS, UNLESS OTHERWISE NOTED, ARE 50V. (ELECTROLYTIC CAPACITORS ARE 10V UNLESS OTHERWISE NOTED.)

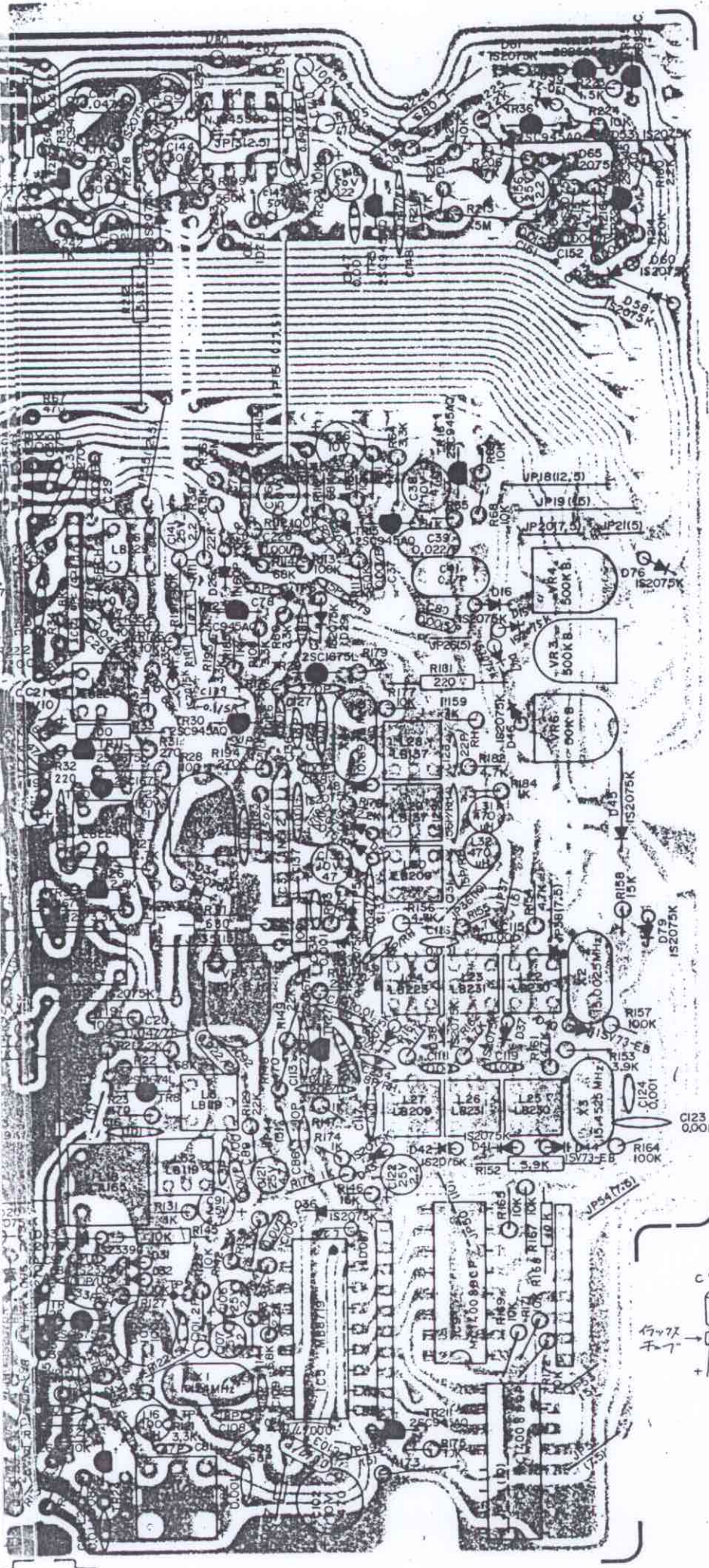
機種名	UT-543/
名	MAIN PCB PART NO
番	E22-3744
年	1962
月	12
日	37D

A

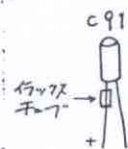
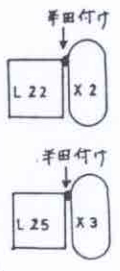
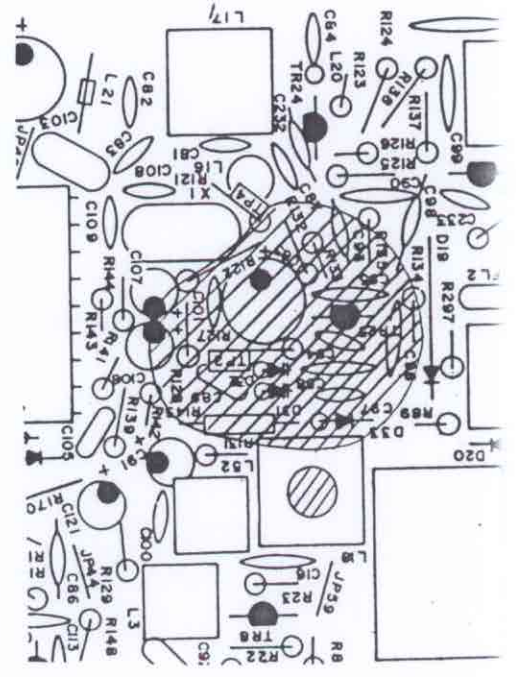
B



12A



斜線部パラスインロットする事

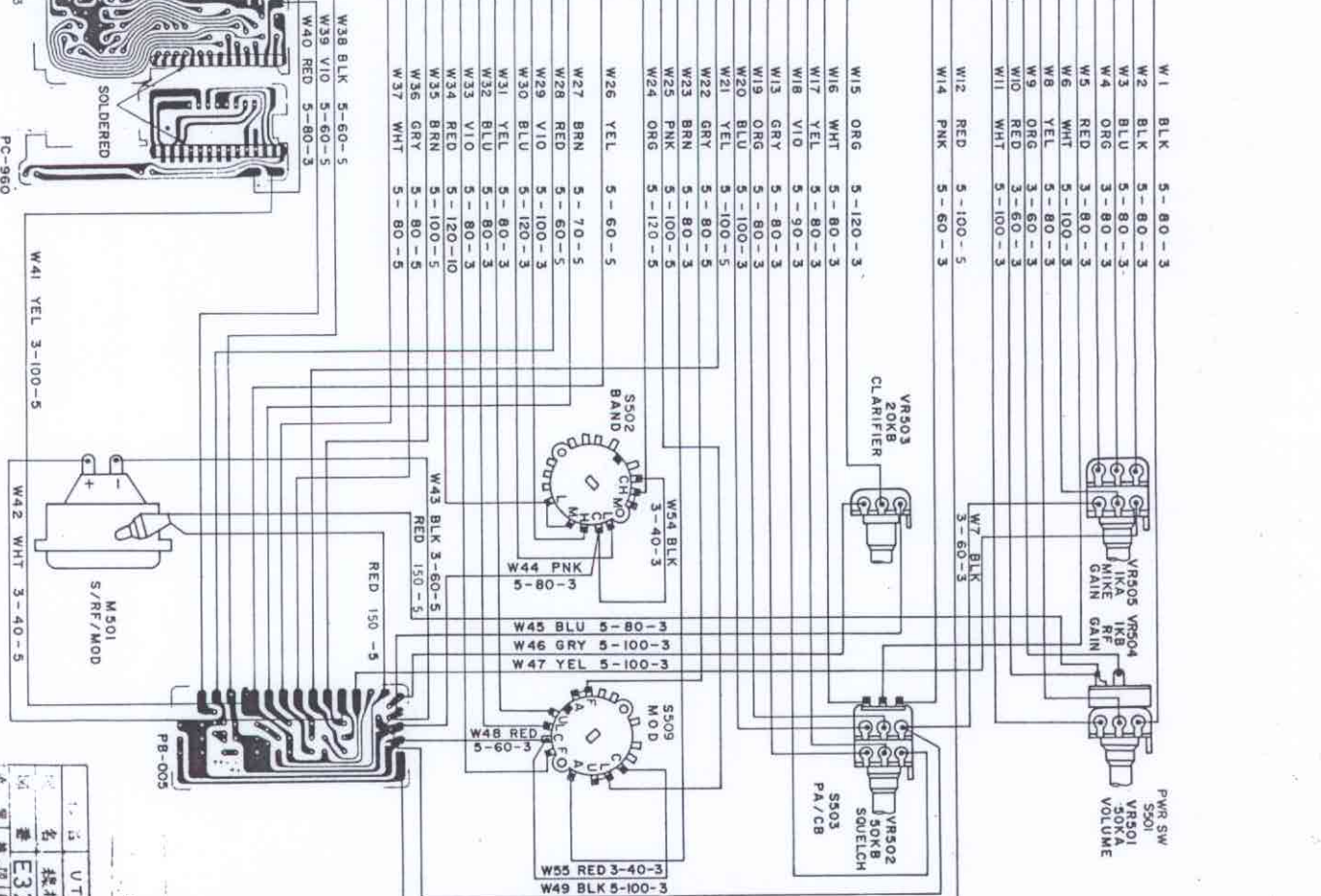
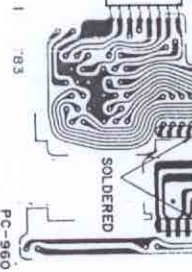
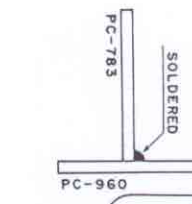
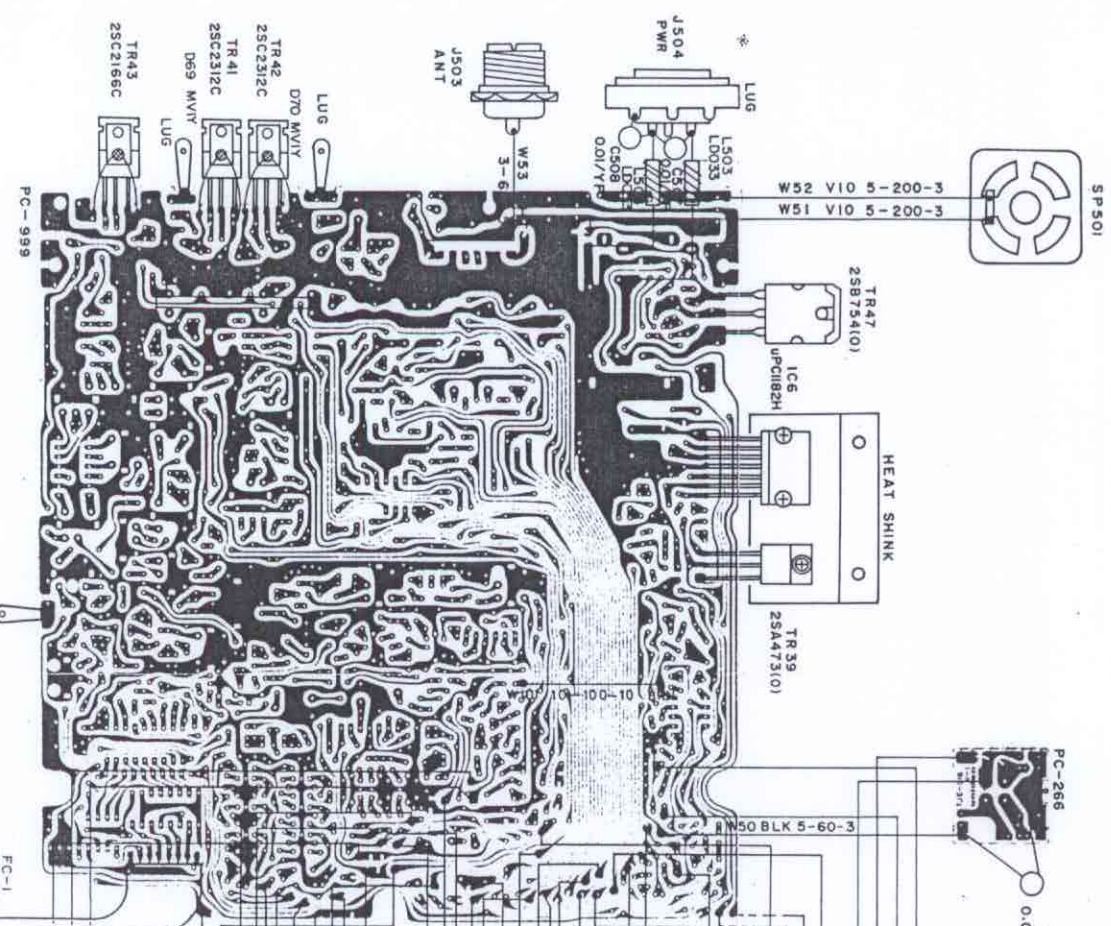
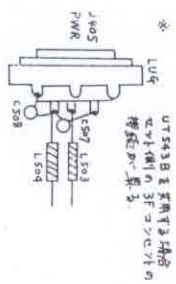


- NOTES:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILO OHM. M= MEG OHM)
 2. RESISTOR WATTAGES ARE 1/8W UNLESS OTHERWISE NOTED.
 3. CAPACITANCE VALUES ARE INDICATED IN MICROFARADS UNLESS OTHERWISE NOTED. (P= MICRO-MICROFARAD)
 4. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE SL (LESS THAN 100PPF) OR YF (MORE THAN 100PPF) UNLESS OTHERWISE NOTED.

UT-543

機種名	UT-543 /
図名	MAIN PCB部品配付図
図番	E22-3744
本図	1/1
作成	9.55.12.16
検査	7+d

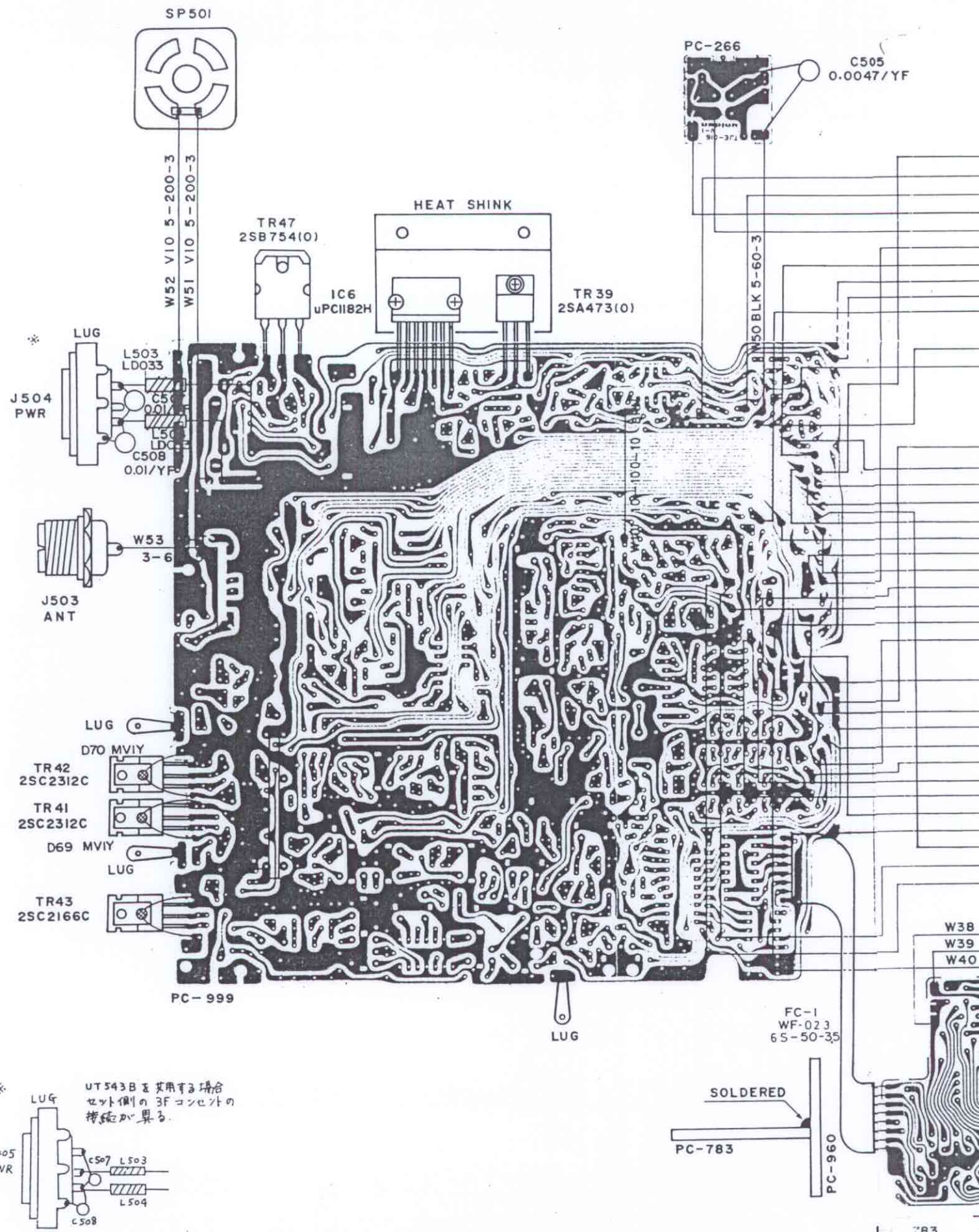
12B



13

品名	VT-543A
材料	E32-1907
製造	IMV
検査	SSS/12
承認	IMV

UT-543B



SP 501

PC-266

C505
0.0047/YF

HEAT SHINK

TR47
2SB754(0)

IC6
uPCI182H

TR39
2SA473(0)

J504
PWR

L503
LD033
C507
0.01
L504
LD033
C508
0.01/YF

J503
ANT

TR42
2SC2312C
TR41
2SC2312C
D69
MVIY
TR43
2SC2166C

PC-999

FC-1
WF-023
6S-50-35

W38
W39
W40

* LUG
J405
PWR
C507 L503
C508 L504

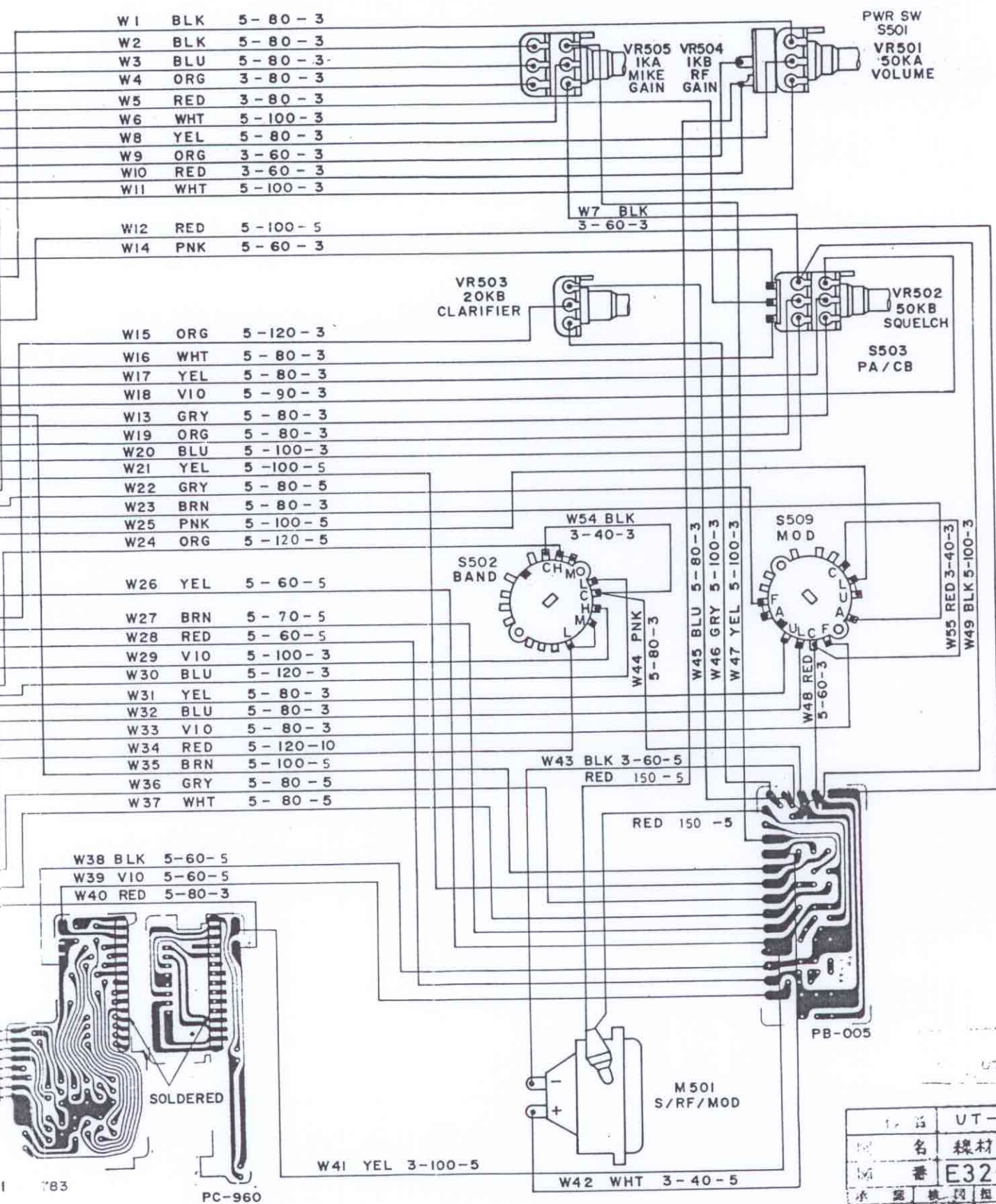
UT543B 互換用する場合
セット側の 3F コンソットの
接続が異なる。

SOLDERED

PC-783

PC-960

13A



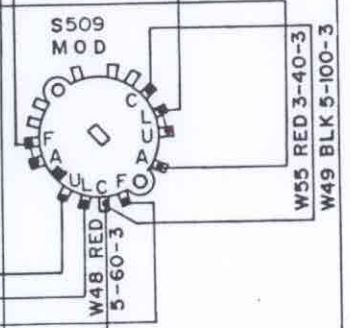
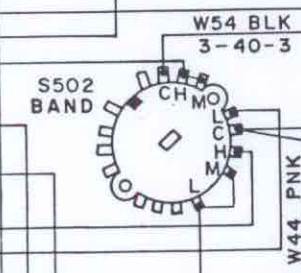
- W1 BLK 5-80-3
- W2 BLK 5-80-3
- W3 BLU 5-80-3
- W4 ORG 3-80-3
- W5 RED 3-80-3
- W6 WHT 5-100-3
- W8 YEL 5-80-3
- W9 ORG 3-60-3
- W10 RED 3-60-3
- W11 WHT 5-100-3

- W12 RED 5-100-5
- W14 PNK 5-60-3

- W15 ORG 5-120-3
- W16 WHT 5-80-3
- W17 YEL 5-80-3
- W18 VIO 5-90-3
- W13 GRY 5-80-3
- W19 ORG 5-80-3
- W20 BLU 5-100-3
- W21 YEL 5-100-5
- W22 GRY 5-80-5
- W23 BRN 5-80-3
- W25 PNK 5-100-5
- W24 ORG 5-120-5

- W26 YEL 5-60-5
- W27 BRN 5-70-5
- W28 RED 5-60-5
- W29 VIO 5-100-3
- W30 BLU 5-120-3
- W31 YEL 5-80-3
- W32 BLU 5-80-3
- W33 VIO 5-80-3
- W34 RED 5-120-10
- W35 BRN 5-100-5
- W36 GRY 5-80-5
- W37 WHT 5-80-5

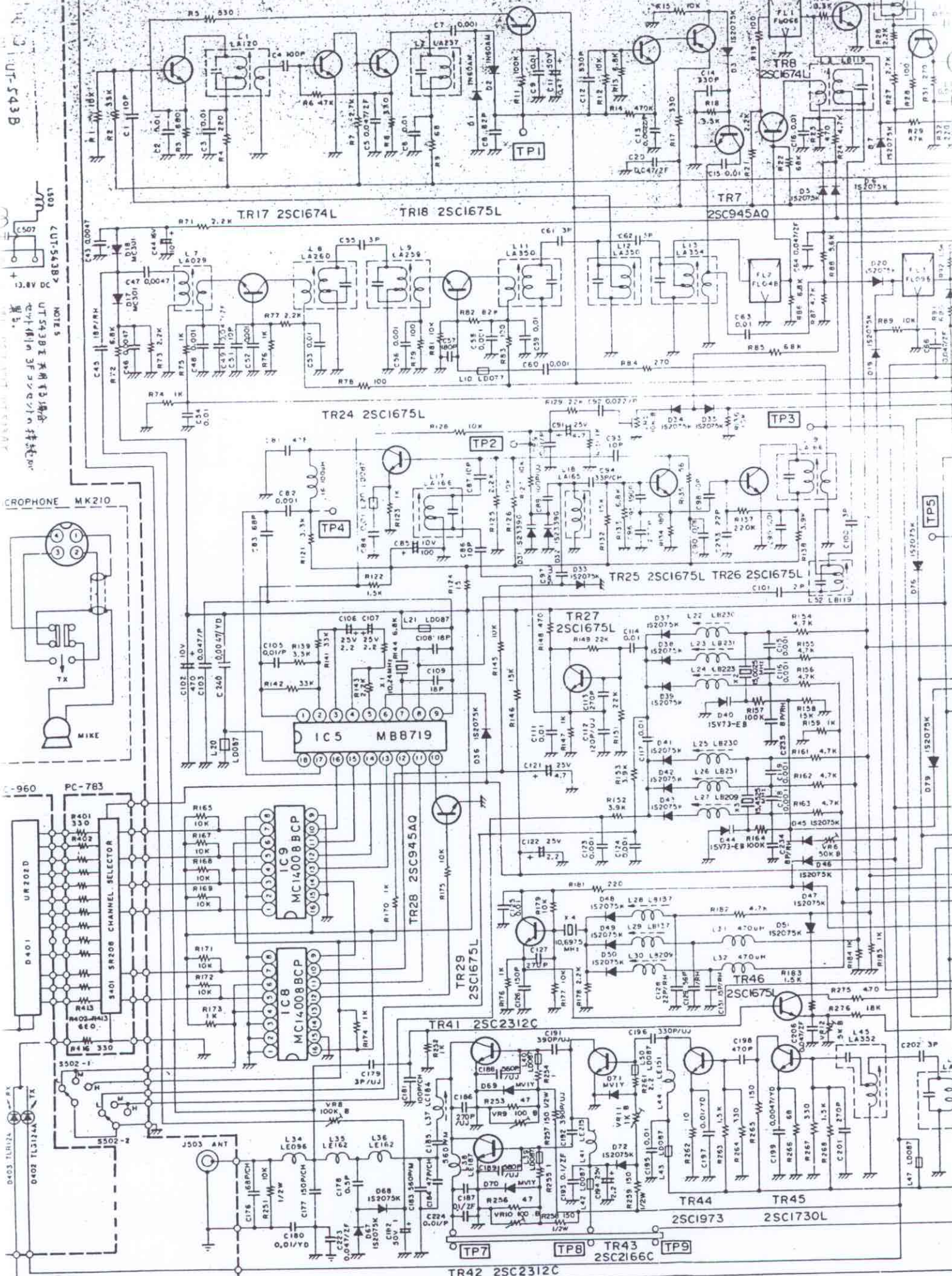
- W38 BLK 5-60-5
- W39 VIO 5-60-5
- W40 RED 5-80-3



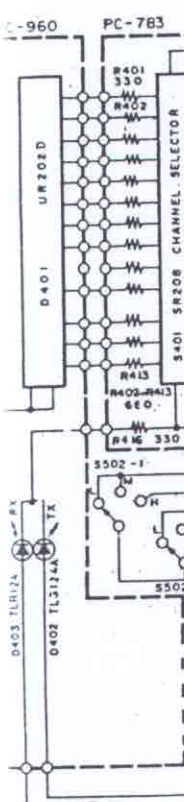
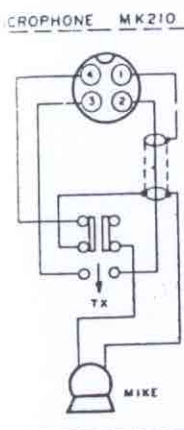
47-5456

品名	UT-543A
名	線材使用図
番	E32-190
承認	橋岡 恒夫
作成	SSS
検出	IM

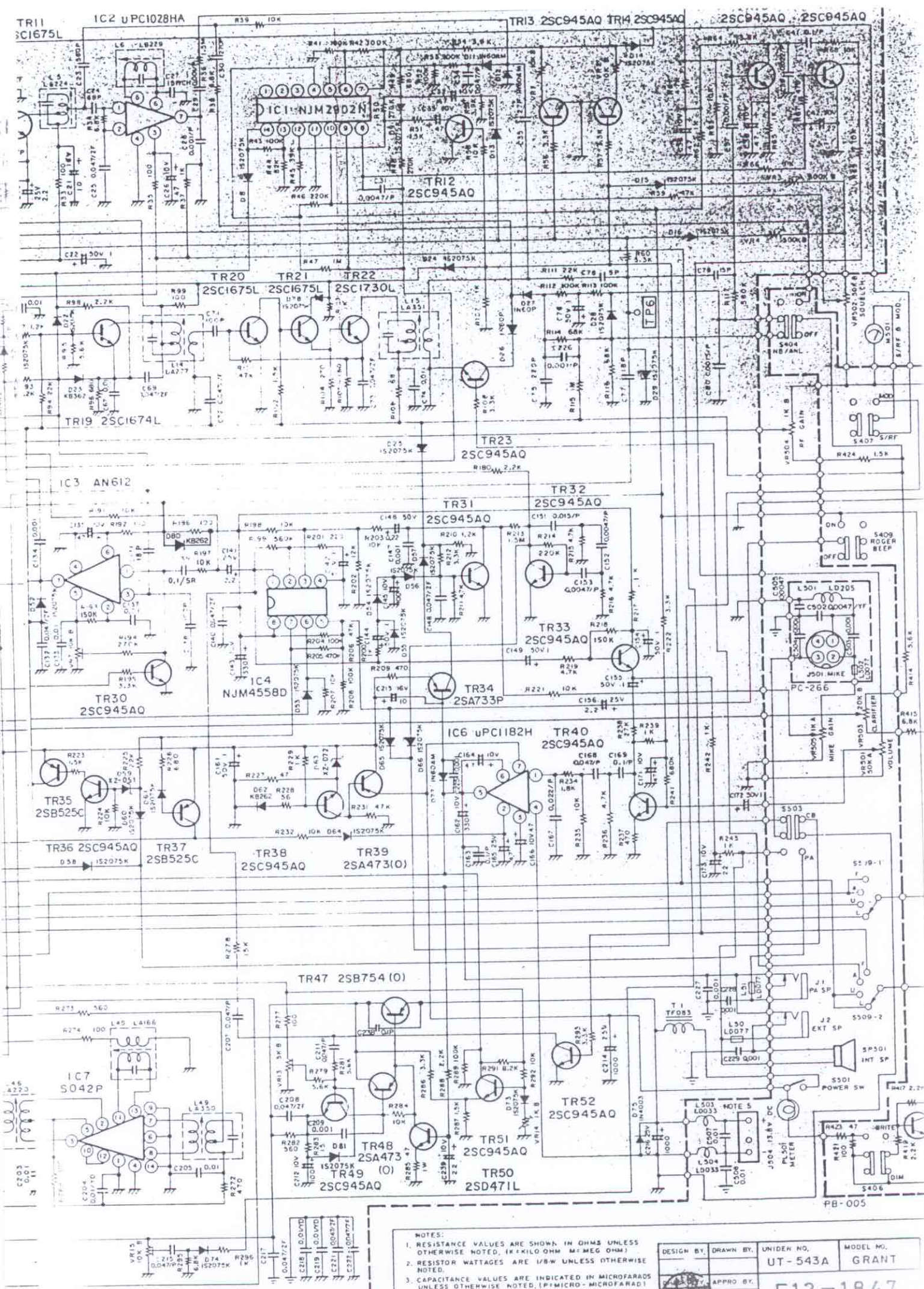
138



UT-543B
NOTE 5
UT-543Bは本機に接続する
マイク・イヤホン・ヘッドホン・接続部
の仕様を参照してください。



14A



- NOTES:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED, (K=KILO OHM M=MEG OHM)
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 4. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE 5% (LESS THAN 1000P) OR 5% (MORE THAN 1000P)

DESIGN BY:	DRAWN BY:	UNIDEN NO.	MODEL NO.
		UT-543A	GRANT
APPRO BY:			

E12-1847

14B

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1		AT54	UT-543A(N)(E)	10-00000	1			
2		3AMBE	UT-543A(N) MAIN PCB ASS'Y		1			
2		AT54			1			
2		3AMBEA			1			
3		BCCC	CAPACITOR:CERAMIC					
3		811015Z	100PF 50V K CH	C181	1			T
3		BCCC	CAPACITOR:CERAMIC					
3		811505Z	15PF 50V K CH	C027	1			T
3		BCCC	CAPACITOR:CERAMIC					
3		811515Z	150PF 50V K CH	C177	1			T
3		BCCC	CAPACITOR:CERAMIC					
3		813305Z	33PF 50V K CH	C094	1			T
3		BCCC	CAPACITOR:CERAMIC					
3		814705Z	47PF 50V K CH	C184	1			T
3		BCCC	CAPACITOR:CERAMIC					
3		816805Z	68PF 50V K CH	C176	1			T
3		BCCG	CAPACITOR:CERAMIC	C001	6			T
3		811002Z	10PF 50V D SL	C087	6			T
3		BCCG	CAPACITOR:CERAMIC	C093	6			T
3		811015Z	100PF 50V K SL	C004	3			T
3		BCCG	CAPACITOR:CERAMIC	C071	3			T
3		811505Z	15PF 50V K SL	C079	1			T
3		BCCG	CAPACITOR:CERAMIC					
3		811515Z	150PF 50V K SL	C126	1			T
3		BCCG	CAPACITOR:CERAMIC	C077	4			T
3		811805Z	18PF 50V K SL	C136	4			T
3		BCCG	CAPACITOR:CERAMIC	C108	4			T
3		812091Z	2PF 50V C SL	C101	1			T
3		BCCG	CAPACITOR:CERAMIC	C057	1			T
3		812205Z	22PF 50V K SL	C233	1			T
3		BCCG	CAPACITOR:CERAMIC					
3		812705Z	27PF 50V K SL	C075	1			T
3		BCCG	CAPACITOR:CERAMIC					
3		812715Z	270PF 50V K SL	C035	1			T
3		BCCG	CAPACITOR:CERAMIC	C030	5			T
3		812715Z	270PF 50V K SL	C127	5			T
3		BCCG	CAPACITOR:CERAMIC	C055	5			T
3		812715Z	270PF 50V K SL	C061	5			T
3		BCCG	CAPACITOR:CERAMIC	C100	5			T
3		812715Z	270PF 50V K SL	C202	5			T
3		BCCG	CAPACITOR:CERAMIC					
3		813315Z	330PF 50V K SL	C012	2			T
3		BCCG	CAPACITOR:CERAMIC	C095	1			T
3		813915Z	390PF 50V K SL		1			T
3		BCCG	CAPACITOR:CERAMIC					
3		814705Z	47PF 50V K SL	C081	1			T
3		BCCG	CAPACITOR:CERAMIC					
3		814715Z	470PF 50V K SL	C198	1			T
3		BCCG	CAPACITOR:CERAMIC					
3		815091Z	0.5PF 50V C SL	C178	1			T

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LEVEL	QTY	UNIT	DESCRIPTION	REF NO	CITY	SET	DELIVERY	REMARKS
3			BCCG CAPACITOR: CERAMIC					
	1		815092Z 5PF 50V D SL	C078		1		T
3			BCCG CAPACITOR: CERAMIC					
	1		815615Z 560PF 50V K SL	C023		1		T
3			BCCG CAPACITOR: CERAMIC					
	2		816805Z 68PF 50V K SL	C024 C083		2		T
3			BCCG CAPACITOR: CERAMIC					
	1		818205Z 82PF 50V K SL	C008		1		T
3			BCCR CAPACITOR: CERAMIC					
	1		811505Z 15PF 50V K RH	C131		1		T
3			BCCR CAPACITOR: CERAMIC					
	1		811805Z 18PF 50V K RH	C045		1		T
3			BCCR CAPACITOR: CERAMIC					
	1		812205Z 22PF 50V K RH	C128		1		T
3			BCCR CAPACITOR: CERAMIC					
	1		815605Z 56PF 50V K RH	C129		1		T
3			BCCR CAPACITOR: CERAMIC					
	2		818092Z 8PF 50V D RH	C234 C235		2		T
3			BCCU CAPACITOR: CERAMIC					
	1		811015Z 100PF 50V K UJ	C088		1		T
3			BCCU CAPACITOR: CERAMIC					
	1		811215Z 120PF 50V K UJ	C112		1		T
3			BCCU CAPACITOR: CERAMIC					
	1		812715Z 270PF 50V K UJ	C186		1		T
3			BCCU CAPACITOR: CERAMIC					
	1		813091Z 3PF 50V C UJ	C179		1		T
3			BCCU CAPACITOR: CERAMIC					
	1		813315Z 330PF 50V K UJ	C196		1		T
3			BCCU CAPACITOR: CERAMIC					
	2		813915Z 390PF 50V K UJ	C191 C192		2		T
3			BCCU CAPACITOR: CERAMIC					
	1		815092Z 5PF 50V D UJ	C097		1		T
3			BCCU CAPACITOR: CERAMIC					
	2		815615Z 560PF 50V K UJ	C188 C189		2		T
3			BCDC CAPACITOR: SILVERED MICA					
	2		815616Z 560PF 50V M	C183 C185		2		J
3			BCEE CAPACITOR: ELECTROLYTIC					
	1		812286Z 0.22UF 50V M C-061	C146		1		N
3			BCFL CAPACITOR: ELECTROLYTIC					
	2		111010Z 100UF 10V	C025 C145 C212		2		T
3			BCEL CAPACITOR: ELECTROLYTIC					
	2		112200Z 22UF 10V	C042 C173 C229		2		T
3			BCEL CAPACITOR: ELECTROLYTIC					
	2		113310Z 330UF 10V	C143 C162		2		T
3			BCFL CAPACITOR: ELECTROLYTIC					
	2		114700Z 47UF 10V	C026 C032 C073 C036 C038 C125 C164 C166 C171		2		T
3			BCFL CAPACITOR: ELECTROLYTIC					
	1		117102Z 470UF 10V	C102		1		T

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3		BCEL	CAPACITOR:ELECTROLYTIC				
			311000Z 10UF 16V	C021 C044 C213	3		T
3		BCEL	CAPACITOR:ELECTROLYTIC				
			511020Z 1000UF 25V	C214 C216 C107	2		T
3		BCEL	CAPACITOR:ELECTROLYTIC				
			512290Z 2.2UF 25V	C122 C141 C156	7		T
3		BCEL	CAPACITOR:ELECTROLYTIC				
			514790Z 4.7UF 25V	C091 C121 C165	3		T
3		BCEL	CAPACITOR:ELECTROLYTIC				
			811090Z 1UF 50V	C022 C076 C142	10		T
				C144 C149 C154			
				C155 C161 C172			
3		BCEL	CAPACITOR ELECTROLYTIC				
			814780Z 0.47UF 50V	C011	1		T
3		BGGC	CAPACITOR:SEMI-CONDUCTOR(SR)				
			511045Z 0.1UF 25V K	C139	1		N
3		BCKC	CAPACITOR:CERAMIC				
			511040Z 0.1UF 25V Z ZF	C187 C193	2		T
3		BCKC	CAPACITOR:CERAMIC				
			514730Z 0.047UF 25V Z ZF	C005 C017 C020	10		T
				C025 C049 C064			
				C066 C069 C072			
				C073 C132 C140			
				C148 C206 C208			
				C217 C221 C222			
				C223			
3		BCKD	CAPACITOR:CERAMIC				
			811036Z 0.01UF 50V M YD	C180 C197 C204	5		T
3		BCKD	CAPACITOR:CERAMIC				
			814726Z 0.0047UF 50V M YD	C218 C219	2		T
3		BCKG	CAPACITOR:CERAMIC				
			811020Z 0.001UF 50V Z YF	C199 C240 C052	20		T
				C007 C048 C056			
				C056 C058 C060			
				C082 C115 C116			
				C118 C119 C123			
				C124 C134 C147			
				C209 C225 C227			
				C228 C229			
3		BCKG	CAPACITOR:CERAMIC				
			811030Z 0.01UF 50V Z YF	C002 C003 C006	20		T
				C009 C015 C016			
				C053 C054 C059			
				C063 C065 C067			
				C074 C084 C090			
				C099 C111 C114			
				C117 C125 C133			
				C137 C195 C203			
				C205			

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LEVEL	QTY	REF. NO.	DESCRIPTION	QTY	REF. NO.	DESCRIPTION	QTY	REF. NO.	REMARKS
3	3	C043	BC9M CAPACITOR: CERAMIC	3	C046	0.0047UF 50V Z YF	C047		T
3	4	C028	BC9M CAPACITOR: MYLAR	4	C029	0.001UF 50V K	C037		N
3	3	C089	BC9M CAPACITOR: MYLAR	3	C105	0.01UF 50V K	C224		N
3	4	C041	BC9M CAPACITOR: MYLAR	4	C163	0.1UF 50V K	C169		N
3	1	C080	BC9M CAPACITOR: MYLAR	1					N
3	1	C151	BC9M CAPACITOR: MYLAR	1					N
3	1	C013	BC9M CAPACITOR: MYLAR	1					N
3	3	C039	BC9M CAPACITOR: MYLAR	3	C092	0.022UF 50V K	C167		N
3	3	C031	BC9M CAPACITOR: MYLAR	3	C152	0.0047UF 50V K	C153		N
3		C018	PC9M CAPACITOR: MYLAR		C034	0.0047UF 50V K	C103		N
3		C168	PC9M CAPACITOR: MYLAR		C207	0.047UF 50V K	C211		N
3	7	C215		7					
3	5	D001	BDAY DIODE	5	D002	1N60 AM	D011		T
3	2	D026	BDAY DIODE	2	D027	1N60 P			T
3	1	D059	BDAY DIODE: ZENER	1					T
3	1	D063	BDAY DIODE: ZENER	1					T
3	2	D031	BDAY DIODE	2	D032	1S2339G			T
3		D003	BDAY DIODE		D005	1S2075K	D006		T
3		D007			D008		D009		T
3		D013			D014		D015		T
3		D016			D019		D020		T
3		D021			D022		D024		T
3		D025			D028		D029		T
3		D033			D034		D035		T
3		D036			D037		D038		T
3		D039			D041		D042		T
3		D043			D045		D046		T
3		D047			D048		D049		T
3		D050			D051		D052		T
3		D053			D054		D055		T
3		D056			D057		D058		T
3		D060			D064		D065		T
3		D064			D067		D068		T
3		D072			D073		D074		T
3		D076			D078		D079		T

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 B U L F S A A J V D E
 C C S A - C G B S - C
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LEVEL	QTY	U	DELIVERY	REMARKS			
NO	PART CODE	DESCRIPTION	REF. NO.	QTY	U	DELIVERY	REMARKS
			D081				
3	B0AY 0090001 MC-301	DIODE	D017 D018	55			T
3	B0AY 0133001 1N4003	DIODE	D075	2			N
3	B0AY 0220001 1SV73-EB	DIODE	D040 D044	1			T
3	B0BA 0733115 DB-003-2SA733-P	TRANSISTOR	TR006	2			T
3	B0BC 0945507 DB-224-2SC945A-Q	TRANSISTOR	TR004 TR005 TR012 TR013 TR015 TR016 TR023	1			T
3	B0BC 1674111 DB-295-2SC1674-L	TRANSISTOR	TR008 TR017 TR001 TR002 TR019	10			T
3	B0BC 1675111 DB-259-2SC1675-L	TRANSISTOR	TR010 TR011 TR018 TR020 TR021 TR024 TR025 TR026 TR027	3			T
3	B0BC 1730111 DB-269-2SC1730-L	TRANSISTOR	TR003 TR022	12			T
3	B0EY 0101001 MB8719	INTEGRATED CIRCUIT	IC005	2			T
3	B0EY 0120001 AM412	INTEGRATED CIRCUIT	IC003	1			T
3	B0EY 0132001 S042P	INTEGRATED CIRCUIT	IC007	1			N
3	B0EY 0145001 NJM4558D	INTEGRATED CIRCUIT	IC004	1			T
3	B0EY 0196002 UPC1028HA	INTEGRATED CIRCUIT	IC002	1			T
3	B0EY 0250001 MC14008BCP	INTEGRATED CIRCUIT	IC008 IC009	2			T
3	B0EY 0312001 NJM2902N	INTEGRATED CIRCUIT	IC001	1			T
3	B0FY 0004002 KB-262	VARIABLE	FC62 D090	2			T
3	B0FY 0004003 KB-362	VARIABLE	FC27 D061	2			T
3	B0FLY 0048001 FL-048-SFE10.7MS2-M	FILTER: CERAMIC	FL002	1			N
3	B0FLY 0066001 FL-066-CFW455HT	FILTER: CERAMIC	FL001	1			N
3	B0FLY 0096001 FL-096-NE10J52	FILTER: CRYSTAL	FL003	1			N
3	B0JKY 0029001 JK-989-HSJ0615	JACK	J001 J002	2			T
3	B0LAY 0029001 LA-029-1FX1-2214DRM	COIL	L007	1			N

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3			BLAY COIL						
3			0120001	LA-120 TKAC-24073F	L001		1		N
3			BLAY COIL						
3			0165001	LA-165 VTKXNA-XT23170-TW	L018		1		N
3			BLAY COIL						
3			0166001	LA-166 TKXC-18501N	L017		3	L048	N
3			BLAY COIL						
3			0220001	LA-220 TKXC-24279UH	L046		1		N
3			BLAY COIL						
3			0237001	LA-237 TKAC-27871Y	L002		1		N
3			BLAY COIL						
3			0259001	LA-259 TKXC-25117AN	L009		1		N
3			BLAY COIL						
3			0260001	LA-260 TKXC-25114N	L008		1		N
3			BLAY COIL						
3			0277001	LA-277 TKAC-25365N	L014		1		N
3			BLAY COIL						
3			0350001	LA-350 TKAC-27242A	L011		3	L049	N
3			BLAY COIL						
3			0351001	LA-351 TKAC-27241A	L015		1		N
3			BLAY COIL						
3			0352001	LA-352 TKXC-27205BZD	L045		1		N
3			BLAY COIL						
3			0354001	LA-354 TKAC-27869N	L013		1		N
3			BLBY COIL						
3			0119001	LB-119 119LC-13656A	L003		2	L052	N
3			BLBY COIL						
3			0137001	LB-137 113CN-6364Z	L028		2	L029	N
3			BLBY COIL						
3			0209001	LB-209 113CN-6485Z	L027		2	L030	N
3			PLBY COIL						
3			0223001	LB-223 113CN-6514X	L024		1		N
3			BLBY COIL						
3			0224001	LB-224 7MC-7172 ABW	L004		2	L005	N
3			BLBY COIL						
3			0229001	LB-229 7MC-7174Y	L006		1		N
3			BLBY COIL						
3			0230001	LB-230 113CN-6539X	L022		2	L025	N
3			BLBY COIL						
3			0231001	LB-231 113CN-6538X	L023		2	L026	N
3			BLBY COIL						
3			0154001	LC-184 2.5T.00.6UFW	L037		1		J
3			BLBY COIL						
3			0077001	LD-077 FE03-1.8*5*0.7	L010		3	L050	N
3			BLBY COIL						
3			0067001	LD-067 FE04-3*5*1	L040		8	L042	N
3			PLBY COIL						
3			0024001	LE-194 8 1/2T	L034		1	L054	N

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3		BLEY COIL	LE-151 C-7931 D4.0 6 1/2T	L044	1			N
3		BLEY COIL	LE-162 D6.0 4 1/2T	L035 L036	2			N
3		BLEY COIL	LE-187 D4.0 7T	L038	1			N
3		BLEY COIL	LE-215 D3.0 4T	L041	1			N
3		BLZY INDUCTOR:MOLDED	LZ-016 SL0609-101K 100UH	L016	1			N
3		BLZY INDUCTOR:MOLDED	LZ-016 SL0609-471K 470UH	L031 L032	2			N
3		BPCY PC BOARD:MAIN	PC-999AB	PC001	1			N
3		BOXY CRYSTAL	GX-077 10.240	X001	1			N
3		BOXY CRYSTAL	GX-122 10.6975	X004	1			N
3		BOXY CRYSTAL	GX-131 15.0025	X002	1			N
3		BOXY CRYSTAL	GX-131 15.4525	X003	1			N
3		BRPB RESISTOR:CARBON AXIAL LEAD	10K 1/2W J	R251	1			N
3		BRPB RESISTOR:CARBON AXIAL LEAD	150 1/2W J	R257 R258 R259	3			N
3		BRPB RESISTOR:CARBON AXIAL LEAD	100 1/8W J	R033 R192 R277	3			N
3		BRPB RESISTOR:CARBON AXIAL LEAD	1K 1/8W J	R062 R075 R217	3			N
3		BRPB RESISTOR:CARBON AXIAL LEAD	10K 1/8W J	R058 R089 R127 R145 R168 R197 R198 R232 R292	9			N
3		BRPB RESISTOR:CARBON AXIAL LEAD	1 1/8W J	P254 R255	2			N
3		BRPB RESISTOR:CARBON AXIAL LEAD	1.5K 1/8W J	R051 R268	2			N
3		BRPB RESISTOR:CARBON AXIAL LEAD	10K 1/8W J	P276	1			N
3		BRPB RESISTOR:CARBON AXIAL LEAD	220 1/8W J	P181	1			N
3		BRPB RESISTOR:CARBON AXIAL LEAD	220K 1/8W J	R046	1			N
3		BRPB RESISTOR:CARBON AXIAL LEAD	2.2 1/8W J	R261	1			N
3		BRPB RESISTOR:CARBON AXIAL LEAD	270 1/8W J	R084	1			N
3		BRPB RESISTOR:CARBON AXIAL LEAD	270K 1/8W J	R055	1			N

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3	4	BRPB RESISTOR:CARBON AXIAL LEAD 1833247 3.3K 1/8W J	R060 R293 R121 R212		N
3	2	BRPB RESISTOR:CARBON AXIAL LEAD 1839247 3.9K 1/8W J	R054 R152		N
3	1	BRPB RESISTOR:CARBON AXIAL LEAD 1839347 3.9K 1/8W J	R045		N
3	1	BRPB RESISTOR:CARBON AXIAL LEAD 1847247 4.7K 1/8W J	R024		N
3	1	BRPB RESISTOR:CARBON AXIAL LEAD 1847347 4.7K 1/8W J	R029		N
3	1	BRPB RESISTOR:CARBON AXIAL LEAD 1856247 5.6K 1/8W J	R279		N
3	2	BRPB RESISTOR:CARBON AXIAL LEAD 1868047 6.8 1/8W J	R009 R106		N
3	3	BRPB RESISTOR:CARBON AXIAL LEAD 1868147 6.8 1/8W J	R049 R091 R226		N
3	1	BRSJ RESISTOR:METAL OXIDE 1047057 47 1W K	R285		N
3	1	BRPB RESISTOR:CARBON FORMED VERT 1810047 10 1/8W J	R262		N
3		BRPB RESISTOR:CARBON FORMED VERT 1810147 100 1/8W J	R019 R078 R079 R083 R099 R196 R269 R274		N
3	10	BRPB RESISTOR:CARBON FORMED VERT 1810247 1K 1/8W J	R065 R066 R074 R076 R103 R131 R147 R150 R170 R174 R176 R185 R200 R242 R252 R296		N
3	24	BRPB RESISTOR:CARBON FORMED VERT 1810347 10K 1/8W J	R001 R012 R015 R067 R068 R069 R081 R126 R165 R171 R175 R177 R179 R191 R203 R207 R224 R235		N
3	24	BRPB RESISTOR:CARBON FORMED VERT 1810447 100K 1/8W J	P011 P041 P042 P043 P052 P053 P112 P117 P157 P164 P204 P208 P209		N
3	17	BRPB RESISTOR:CARBON FORMED VERT 1810547 1W 1/8W J	P047 P115		N

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-C: CERTIFICATION CARD

LEVEL	N/C	PART CODE	DESCRIPTION	REF. NO	QTY	DELIVERY SET	REMARKS
3		BRUB 181224Z 1.2K 1/8W J	RESISTOR:CARBON FORMED VERT	R097 R210	2		N
3		BRUB 181234Z 12K 1/8W J	RESISTOR:CARBON FORMED VERT	R202	1		N
3		BRUB 181504Z 15 1/8W J	RESISTOR:CARBON FORMED VERT	R124 R283	2		N
3		BRUB 181514Z 150 1/8W J	RESISTOR:CARBON FORMED VERT	R105 R265	2		N
3		BRUB 181524Z 1.5K 1/8W J	RESISTOR:CARBON FORMED VERT	R183 R122 R223 R253 R287	2		N
3		BRUB 181534Z 15K 1/8W J	RESISTOR:CARBON FORMED VERT	R132 R146 R158 R278	4		N
3		BRUB 181544Z 150K 1/8W J	RESISTOR:CARBON FORMED VERT	R193 R218	2		N
3		BRUB 181554Z 1.5M 1/8W J	RESISTOR:CARBON FORMED VERT	R036 R213	2		N
3		BRUB 181814Z 180 1/8W J	RESISTOR:CARBON FORMED VERT	R134	1		N
3		BRUB 181824Z 1.8K 1/8W J	RESISTOR:CARBON FORMED VERT	R234	1		N
3		BRUB 182214Z 220 1/8W J	RESISTOR:CARBON FORMED VERT	R004 R032 R201 R021 R026 R071 R073 R077 R098 R125 R143 R178 R180 R288 R094 R111 R129 R149 R151 R225	3		N
3		BRUB 182224Z 2.2K 1/8W J	RESISTOR:CARBON FORMED VERT	R137 R214	2		N
3		BRUB 182714Z 270 1/8W J	RESISTOR:CARBON FORMED VERT	R031 R104	2		N
3		BRUB 182724Z 2.7K 1/8W J	RESISTOR:CARBON FORMED VERT	R007 R027	2		N
3		BRUB 182734Z 27K 1/8W J	RESISTOR:CARBON FORMED VERT	R238	1		N
3		BRUB 182744Z 270K 1/8W J	RESISTOR:CARBON FORMED VERT	R048 R104 R005 R00P R264 R267 R018 R025 R056 R057 R064 R108 R139 R195 R222 R286	2		N
3		BRUB 183314Z 330 1/8W J	RESISTOR:CARBON FORMED VERT	R002 R141	7		N
3		BRUB 183324Z 3.3K 1/8W J	RESISTOR:CARBON FORMED VERT	R055 R138 R153	7		N

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 B UL F SAA J VDE
 C CSA - C G BS - C
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 - C: CERTIFICATION CARD

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LEVEL	QTY	DESCRIPTION	REF. NO.	QTY	SET	DELIVERY	REMARKS
3	BRUR	RESISTOR:CARBON FORMED VERT	R227	R253	R256		N
	1847047	47 1/8W J	R023	R067	R148		
3	BRUR	RESISTOR:CARBON FORMED VERT	R209	R237	R272		N
	1847147	470 1/8W J	R275				
3	BRUR	RESISTOR:CARBON FORMED VERT	R087	R154	R155		
	1847247	4.7K 1/8W J	R156	R161	R162		N
			R163	R182	R211		
			R215	R216	R219		
			R236				
3	BRUR	RESISTOR:CARBON FORMED VERT	R006	R059	R061		N
	1847347	47K 1/8W J	R101	R206	R231		
3	BRUR	RESISTOR:CARBON FORMED VERT	R014	R205			N
	1847447	470K 1/8W J	R135	R228			N
3	BRUR	RESISTOR:CARBON FORMED VERT	R273	R282			N
	1856047	56 1/8W J	R088	R095	R281		N
3	BRUR	RESISTOR:CARBON FORMED VERT	R117	R199			N
	1856147	560 1/8W J	R266				N
3	BRUR	RESISTOR:CARBON FORMED VERT	R003	R096			N
	1856247	5.6K 1/8W J	R013	R034	R038		N
3	BRUR	RESISTOR:CARBON FORMED VERT	R072	R086	R133		N
	1856447	500K 1/8W J	R144	R295			
3	BRUR	RESISTOR:CARBON FORMED VERT	R022	R085	R114		N
	1858047	68 1/8W J	R116				
3	BRUR	RESISTOR:CARBON FORMED VERT	R241				N
	1868147	680 1/8W J	R093	R291			N
3	BRUR	RESISTOR:CARBON FORMED VERT	R044	R032			N
	1868247	6.8K 1/8W J	T001				N
3	BTFF	TRANSFORMER:AF CHOKE	TP008	TP009	TP010		T
	0023001	TF-083	JP012	JP014	JP021		N
3	BTFF	TERMINAL:CHECK POINT	JP025	JP026	JP027		N
	0044301	TP-J44	JF037	JF043	JF044		N
3	BTFF	JUMPER WIRE	JF045	JF049	JF053		N
	0052001	YY-052 5.0MM	JF017	JP020	JF027		N
3	BTFF	JUMPER WIRE	JP028	JP029	JF033		N
	0052002	YY-052 7.5MM					

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QTY	UNIT	DESCRIPTION	REV	REF	DELIVERY	QTY	UNIT	DESCRIPTION	REV	REF	DELIVERY
3	BYYY	JUMPER WIRE				11	JP052				
	0052003	YY-052 10.0MM					JP038	JP047	JP052		
							JP054	JP057			
							JP002	JP009	JP016		
							JP031	JP036	JP042		
							JP050	JP051	JP060		
3	EYYY	JUMPER WIRE				6	JP007	JP018	JP039		
	0052004	YY-052 12.5MM					JP040	JP046	JP055		
							JP006	JP019	JP030		
							JP035	JP041			
3	BYYY	JUMPER WIRE				5	JP005	JP032			
	0052006	YY-052 17.5MM					JP004	JP022	JP023		
							JP008				
3	BYYY	JUMPER WIRE				1	JP001	JP003			
	0052009	YY-052 25.0MM					JP010	JP015			
							JP013				
3	BYYY	JUMPER WIRE				2	TR048				
	0052010	YY-052 27.5MM					TR034				
							TR035	TR037			
							TR030	TR031	TR032		
							TR033	TR036	TR038		
3	B0BA	TRANSISTOR				1	TR040	TR049	TR051		
	0473114	DB-028 25A473-0					TR052				
							TR029	TR046			
							TR045				
							TR044				
							TR050				
3	B0BB	TRANSISTOR				2	VR009	VR010			
	0525103	DB-106 25B525-C					VR011	VR014			
							VR001	VR002	VR005		
							VR007	VR015			
3	B0BC	TRANSISTOR				1	VF008				
	0945507	DB-224 25C945A-0					VF012	VF017			
3	B0BC	TRANSISTOR				2					
	1675111	DB-259 25C1675-L									
3	B0BC	TRANSISTOR				1					
	1730111	DR-249 25C1730-L									
3	B0BD	TRANSISTOR				1					
	1973115	DB-272 25C1973-SSP									
3	B0BD	TRANSISTOR				1					
	0471111	DB-411 25D471-L									
3	BRTY	RESISTOR:SEMI-FIXED				2					
	0182101	RT-182 TT24R 100R									
3	BRTY	RESISTOR:SEMI-FIXED				2					
	0182102	RT-182 TT24R 10R									
3	BRTY	RESISTOR:SEMI-FIXED				5					
	0182103	RT-182 TT24R 100R									
3	BRTY	RESISTOR:SEMI-FIXED				1					
	0182104	RT-182 TT24R 1000R									
3	BRTY	RESISTOR:SEMI-FIXED				2					
	0182502	RT-182 TT24R 50R									

A U L - C E S A A - C I V D E - C
 B U L F S A A J V D I E
 C S A - C G B S - C
 D C S A H B S
 - C : C E R T I F I C A T I O N C A R D

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LEVEL	QTY	REF. NO.	DELIVERY	REMARKS	UNIT
3	1	VP006			T
3	2	VP003			T
2	1	85-00000			
3	2	C503			T
3	2	C507			T
3	2	C502			T
3	1	D403			T
3	1	D401			T
3	1	D402			T
3	1	TR039			T
3	1	TR047			T
3	1	TR401			T
3	1	TR043			T
3	2	TR041			T
3	1	IC006			T
3	3	D069			J
3	1	F001			N
3	1	J502			N
3	1	J503			N
3	1	J501			T
3	2	L503			N
3	1	L502			N
3	1	L501			N
3	1	M*001			N
3	1	M501			N

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LEVEL	QTY	PART CODE	DESCRIPTION	REF. NO.	QTY	SET	DELIVERY	REMARKS
3	N	BPBY	PC BOARD:SW					
		0005AA7	PB-005AA	PC006	1			N
3	BPBY	PC BOARD:CHECK POINT						
		0100AAZ	PB-100AA	PC005	1			N
3	BPCY	PC BOARD:MIC JACK						
		0266AAZ	PC-266AA	PC004	1			N
3	BPCY	PC BOARD:CH SW						
		0783ABZ	PC-783AB	PC002	1			N
3	BPCY	PC BOARD:LED						
		0960AAZ	PC-960AA	PC003	1			N
3	BRUB	RESISTOR:CARBON FORMED VERT						
		181014Z	100 1/8W J	R421	1			N
3	BRUB	RESISTOR:CARBON FORMED VERT						
		181524Z	1.5K 1/8W J	R424	1			N
3	BRUB	RESISTOR:CARBON FORMED VERT						
		182224Z	2.2K 1/8W J	R417	2			N
3	BRUB	RESISTOR:CARBON FORMED VERT						
		183314Z	330 1/8W J	R401	2			N
3	BRUB	RESISTOR:CARBON FORMED VERT						
		184704Z	47 1/8W J	R423	1			N
3	BRUB	RESISTOR:CARBON FORMED VERT						
		185624Z	5.6K 1/8W J	R414	1			N
3	BRUB	RESISTOR:CARBON FORMED VERT						
		186814Z	680 1/8W J	R402 R403 R404 R405 R406 R407 R408 R409 R410 R411 R412 R413	12			N
3	BRUB	RESISTOR:CARBON FORMED VERT						
		126824Z	6.8K 1/8W J	R415	1			N
3	BRVY	RESISTOR:VARIABLE						
		0222001	RV-222 20KB	VP503	1			T
3	BRVY	RESISTOR:VARIABLE						
		0320001	RV-320 50KA	VP501	1			T
3	BRVY	RESISTOR:VARIABLE						
		0447001	RV-447 50KB	VP502	1			T
3	BRVY	RESISTOR:VARIABLE						
		0485001	RV-485 1KB, 1KA	VP504	1			T
3	BSPY	SPEAKER						
		0053001	SP-053	SP501	1			N
3	BSRY	SWITCH:ROTARY						
		0187001	SR-187 SRM1034N	S509	1			T
3	BSRY	SWITCH:ROTARY						
		0205001	SR-205 SRM1047N	S502	1			T
3	BSRY	SWITCH:ROTARY						
		0208001	SR-208 USW-0197	S401	1			T
3	BSWY	SWITCH:PUSH						
		0317001	SW-117 4F-00C1DFE120V1	S404	1			N
3	BWYF	FLAT CAPLE						
		0230502	WF-023 6S-50-3.5	FCC01	1			J
3	BYRY	INSULATION SHEET						
		0005004	YD-005 ACC	YY003	1			T

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LEVEL	QTY	PART CODE	DESCRIPTION	REF. NO.	CITY	DEIVERY	REMARKS
3		BYDY 0047001	INSULATION SHEET YD-047 S-32	YY002			T
3		BYDY 0050001	INSULATION SHEET YD-050 AC238	YY004			T
3		BYDY 0027001	INSULATION SHEET YY-027 JUMPER WIRE	YY005	YY006	YY007	J
3		BYDY 0052003	YY-052 10.0MM BUSHING:TIGHT CERAMIC	JP401	JP402		N
3		BYDY 0172001	YY-172 WIRES ASSEMBLED	YY008	YY009	YY010	J
3		CZDZ 070234Z	W-070234 1500 W/P	WP001			N
2		AT54 3AMBW	UT-543A(N) WIRE	90-00000			
3		CUAA 007022Z	UL 1007 #24 5-70-5 BRN	W027			N
3		CUAA 008021Z	UL 1007 #24 5-80-3 BRN	W023			N
3		CUAA 010022Z	UL 1007 #24 5-100-5 BRN	W035			N
3		CUAA 010044Z	UL 1007 #24 10-100-10 BRN	W101			N
3		CUAB 004011Z	UL 1007 #24 3-40-3 RED	W055			N
3		CUAB 006011Z	UL 1007 #24 3-60-3 RED	W010			N
3		CUAB 006021Z	UL 1007 #24 5-60-3 RED	W048			N
3		CUAB 006022Z	UL 1007 #24 5-60-5 RED	W028			N
3		CUAB 008011Z	UL 1007 #24 3-80-3 RED	W005			N
3		CUAB 008021Z	UL 1007 #24 5-80-3 RED	W040			N
3		CUAB 010022Z	UL 1007 #24 5-100-5 RED	W012			N
3		CUAC 012042Z	UL 1007 #24 10-120-5 RED	W034			N
3		CUAC 006011Z	UL 1007 #24 3-60-3 ORG	W009			N
3		CUAC 008011Z	UL 1007 #24 3-80-3 ORG	W004			N
3		CUAC 008021Z	UL 1007 #24 5-80-3 ORG	W019			N
3		CUAC 012021Z	UL 1007 #24 5-120-3 ORG	W015			N
3		CUAC 012022Z	UL 1007 #24 5-120-5 ORG	W024			N
3		CUAC 006022Z	UL 1007 #24 3-60-5 YEL	W026			N

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 C CSA - C G BS - C
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LEVEL	QTY	PART CODE	DESCRIPTION	REF. NO.	QTY	DELIVERY	REMARKS
3		CUAD WIRE	UL 1007 #24 5-80-3 YEL	W008	W017	W031	N
3		CUAD WIRE	UL 1007 #24 5-100-3 YEL	W041	W047		N
3		CUAF WIRE	UL 1007 #24 5-100-5 YEL	W021			N
3		CUAF WIRE	UL 1007 #24 5-80-3 PLU	W003	W032	W045	N
3		CUAF WIRE	UL 1007 #24 5-100-3 PLU	W020			N
3		CUAG WIRE	UL 1007 #24 5-120-3 PLU	W030			N
3		CUAG WIRE	UL 1007 #24 5-60-5 VIO	W039			N
3		CUAG WIRE	UL 1007 #24 5-80-3 VIO	W033			N
3		CUAG WIRE	UL 1007 #24 5-90-3 VIO	W018			N
3		CUAG WIRE	UL 1007 #24 5-100-3 VIO	W029			N
3		CUAH WIRE	UL 1007 #24 5-200-3 VIO	W051	W052		N
3		CUAH WIRE	UL 1007 #24 5-80-3 GRY	W013			N
3		CUAH WIRE	UL 1007 #24 5-80-5 GRY	W022	W036		N
3		CUAJ WIRE	UL 1007 #24 5-100-3 GRY	W046			N
3		CUAJ WIRE	UL 1007 #24 5-40-3 WHT	W042			N
3		CUAJ WIRE	UL 1007 #24 5-60-3 WHT	W053			N
3		CUAJ WIRE	UL 1007 #24 5-80-3 WHT	W016			N
3		CUAJ WIRE	UL 1007 #24 5-80-5 WHT	W037			N
3		CUAK WIRE	UL 1007 #24 5-100-3 WHT	W006	W011		N
3		CUAK WIRE	UL 1007 #24 3-40-3 PLK	W054			N
3		CUAK WIRE	UL 1007 #24 3-60-3 PLK	W007			N
3		CUAK WIRE	UL 1007 #24 5-60-3 PLY	W043	W050		N
3		CUAK WIRE	UL 1007 #24 5-60-5 PLY	W038			N
3		CUAK WIRE	UL 1007 #24 5-50-3 PLY	W001	W002		N
3		CUAK WIRE	UL 1007 #24 5-100-3 PLY	W048			N

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 C CSA-C G BS -C
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LEVEL	QTY	PART CODE	DESCRIPTION	REF. NO.	CTV	DELIVERY	REV. NO.	UNIT
3		CUAV	WIRE					
		006021Z	UL 1007 #24 5-60-3 PNK	W014	1			N
3		CUAV	WIRE					
		008021Z	UL 1007 #24 5-80-3 PNK	W044	1			N
3		CUAV	WIRE					
		010022Z	UL 1007 #24 5-100-5 PNK	W025	1			N
1		AT54	UT-543A(N) (M)					
		3ANBM		20-00000	1			
2		ECSY	CHASSIS (COMP.)					
		206060B	ALP,2,OT		1			N
3		HCSY	CHASSIS					
		206060P	ALP,2,OT		1			T
3		MNUT	SUPPORTER: MOUNTING BRACKET					
		403988Z	BSBM, NON OIL		4			T
3		SSCW	RIVET: CYLINDER HD					
		633004S	D3X4	1	3			T
3		TSTD	TERMINAL: LUG, SOLDER					
		0150003	D3		3			T
2		AT54	UT-543A(N) (M) PARTS					
		3ANBMP		90-00000	1			
3		GCMF	PANEL: FRONT					
		211492Z	PAINT: SILVER, SILK, ABS		1			N
3		GHDL	HOLDER: LED					
		404790Z	ACRYL, PURPLE		1			N
3		GHDL	HOLDER: LED					
		411859Z	ABS, BLACK		1			N
3		GMSC	SCREW: MOUNTING					
		405736Z	ABS INST CLR BLACK		4			N
3		GNBC	KNOB: CHANNEL					
		404043Z	ABS, CR		1			N
3		GNBP	KNOB: PUSH-BUTTON					
		404046Z	ABS, CR		4			N
3		GNBW	KNOB (OUTER)					
		404066B	ABS CR		1			N
3		GNBW	KNOB (INNER)					
		404067C	ABS CR		1			N
3		GNBY	KNOB					
		404045A	ABS, CR		3			N
3		GNBY	KNOB					
		404058Z	ABS, CR		2			N
3		HPCF	BRACKET					
		306044A	SPCC, ZMC, 1.6T		1			N
3		HCMO	COVER: BOTTOM					
		211206Z	VINYL TOP, SP-KOP, E-TYPE, 1T		1			N
3		HCMT	COVER: TOP					
		210568Z	SR-K02, 1, OT, E-TYPE		1			N
3		HCSF	CHASSIS: FRONT					
		304021A	SPCC, 1, OT, ZMC		1			N
3		HCPM	HOLDER: METER					
		304022C	SPCC, 1, OT, ZMC		1			N

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LEVEL	QTY	DESCRIPTION	REF NO	QTY	SE	REMARKS
3	N	HDDW HOLDER:SWICH 411488Z SPCC,1.0T,ZMC		1		N
3	N	HHSK HEAT SINK 411489Z ALP,2.0T,NON OIL		1		N
3	N	HMHG HANGER:MICROPHONE 402919Z SPCC,1.0T,NI		1		N
3	N	HSDP SHIELD PLATE 402163Z SPT,0.3T,NONOIL		1		N
3	N	HTML METAL STRIP:EARTH 405562Z PLATING METAL,0.8T		1		N
3	N	KDPT PLATE:CONTROL 411493Z PVC,1.0T,SILK		1		N
3	N	LHDL HOLDER:LED 405995Z EPT,BLACK		2		N
3	N	LWSR WASHER:RUBBER 400638Z NEOPRENE,BLACK,7*15*2.0T		4		N
3	N	PLRC LABEL:WARNING,DC CORD 419000Z PAPER,PRINT		1		N
3	N	PLBS LABEL:SERIAL NO. 401500Z PAPER,PRINT		3		N
3	N	QHSK HEAT SINK 411490Z A2014S-T4,BLACK,ALUMITE		1		N
3	N	RCUN CUSHION:METER 404326A NEOPRENE SP,2.0T,BLACK		1		N
3	N	RETC PROTECTION COVER:FRONT PANEL 304029B PAPER NO.7		1		N
3	N	RETC SPACER 416094Z **		1		N
3	N	RFLT WASHER:FELT 402225Z D4*3I,WHITE		2		N
3	N	RUTC WOOL-COATED PAPER:WOOL TACK 403865Z WOOL PAPER,10*150*0.3T		2		N
3	N	RZER INSULATION PLATE 410274Z PVC,0.5T		1		N
3	N	SSCW SCREW:PAN HD + 123006S M3X6 PLASTIC		1		N
3	N	SSCW SCREW:FLAT HD + 133008N M3X6 NI		4		N
3	N	SSCW SCREW:RIND HD + 192012Z M2X12 NI		2		N
3	N	SSCW SCREW:RIND HD + 192012H M2X12 NI		2		N
3	N	SSCW SCREW:RIND PE + 193006N M3X6 NI		10		N
3	N	SSCW SCREW:RIND HD + 193006Y M3X6 NI		2		N
3	N	SSCW SCREW:RIND HD + 193006W M3X6 NI		3		N
3	N	SSCW SCREW:RIND HD + 193006Z M3X6 NI		4		N

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A UL -C E SAA-C I VDE C
 B UL F SAA J VDE
 C CSA-C G BS -C
 D CSA H BS
 -C CERTIFICATION CARD

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BILL OF MATERIAL

REVISION NOTE NO

CUSTOMER MODEL

MFR'S MODEL CODE
 U1543AN

LEVEL	QTY	DELIVERY	REF. NO.	DESCRIPTION	REVISION	NOTE NO.	REMARKS
3	5			SSCW SCREW: BIND HD + 193006N M3X6 NI			CHASSIS: FRONT
3	6			SSCW SCREW: BIND HD + 193006N M3X6 NI			HOLDER: SW
3	7			SSCW SCREW: BIND HD + 193006N M3X6 NI			HEAT SINK
3	1			SSCW SCREW: BIND HD + 193008N M3X8 NI			AF PWR
3	2			SSCW SCREW: BIND HD + 193008N M3X8 NI			SP
3	1			SSCW SCREW: BIND HD + 193012N M3X12 NI			MODE TR
3	2			SSCW SCREW: BIND HD + 193012N M3X12 NI			HEAT SINK
3	1			SSCW SCREW: TAPPING ROUND HD + 293508N D3.5X8 NI			ACC HANGER: MIC
3	1			SSCW SCREW: TAPPING ROUND HD + 295010N D5X10 NI			ACC BRACKET
3	4			SSCW SCREW: TAPTIGHT BIND HD + 343008N M3X8 NI			PCB
3	1			SSCW NUT: FLANGE 480030Z M3 ZMC			MODE TR
3	2			SSCW NUT: FLANGE 480030Z M3 ZMC			SP
3	1			SSCW WASHER: LOCK 530035N D3.5 NI			ACC HANGER: MIC
3	1			SSCW WASHER: STAR 540050N D5 NI			ACC BRACKET
3	1			TSTD SPRING PLATE: KNOB 0200001 D3.5			MIC GAIN KNOB*1
3	1			TSTD SPRING PLATE: KNOB 0200002 D6			RF GAIN KNOB*1
3	1			TSTD SPRING PLATE: KNOB 0200003 D6.02X19.53			KNOB: CH*1
3	12			TSTD SELFLOCK INSERTER (BARC-LOK) 0243020 M3 2T			CHASSIS
3	1			UTKP OWNER'S MANUAL 01543A2 **			
3	1			VNYL VINYL BAG 1122500 120X200X0.05T			
3	1			VNYL VINYL BAG 1173200 170X320X0.05T			
3	1			VNYL VINYL BAG 2425262 420X520X420X0.07T			1/6
3	1			VNYL VINYL BAG 3070800 70X80X0.1T			MISCELLANY*1
3	1			VNYL VINYL BAG 3324500 320X450X0.1T			
3	1			WEXC DISPLAY BOX 3114242 *			

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A UL -C E SAA-C I VDE-C
 B UL F SAA J VDE
 C CSA-C G BS -C
 D CSA H BS

DATE 86 12 10
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-C- CERTIFICATION CARD

BILL OF MATERIAL

MFR'S MODEL CODE
 UT547AN

CUSTOMER MODEL
 []

REVISION NOTE NO
 []

QTY	DESCRIPTION	UNIT	REF ID	DELIVERY	QTY	DESCRIPTION	UNIT	REF ID	DELIVERY
	DIODE: ZENER					DIODE: ZENER			
	XZ-051					HZ5B-3			
0020004	BDAY				0059	BDAY-0269001			
	DIODE: ZENER					DIODE: ZENER			
	XZ-051					HZ5C-1			
0020004	BDAY				0059	BDAY-0269002			
	DIODE: ZENER					DIODE: ZENER			
	XZ-072					RD7-5EB2			
0020012	BDAY				0063	BDAY-0086009			
	DIODE: ZENER					DIODE: ZENER			
	XZ-072					HZ-7B3			
0020012	BDAY				0063	BDAY-0269013			
	DIODE					DIODE			
	1S2075K					1N4148			
0063001	BDAY				0003	BDAY-0137001			
	DIODE					DIODE			
	1S2075K					1S1555			
0063001	BDAY				0003	BDAY-0181001			
	DIODE					DIODE			
	1S2075K					1N4148			
0063001	BDAY				0005	BDAY-0137001			
	DIODE					DIODE			
	1S2075K					1S1555			
0063001	BDAY				0005	BDAY-0181001			
	DIODE					DIODE			
	1S2075K					1N4148			
0063001	BDAY				0006	BDAY-0137001			
	DIODE					DIODE			
	1S2075K					1S1555			
0063001	BDAY				0006	BDAY-0181001			
	DIODE					DIODE			
	1S2075K					1N4148			
0063001	BDAY				0007	BDAY-0137001			
	DIODE					DIODE			
	1S2075K					1S1555			
0063001	BDAY				0007	BDAY-0181001			
	DIODE					DIODE			
	1S2075K					1N4148			
0063001	BDAY				0008	BDAY-0137001			
	DIODE					DIODE			
	1S2075K					1S1555			
0063001	BDAY				0008	BDAY-0181001			
	DIODE					DIODE			
	1S2075K					1N4148			
0063001	BDAY				0009	BDAY-0137001			
	DIODE					DIODE			
	1S2075K					1S1555			
0063001	BDAY				0009	BDAY-0181001			
	DIODE					DIODE			
	1S2075K					1N4148			
0063001	BDAY				0013	BDAY-0137001			
	DIODE					DIODE			
	1S2075K					1S1555			
0063001	BDAY				0013	BDAY-0181001			
	DIODE					DIODE			
	1S2075K					1N4148			
0063001	BDAY				0014	BDAY-0137001			
	DIODE					DIODE			
	1S2075K					1S1555			
0063001	BDAY				0014	BDAY-0181001			
	DIODE					DIODE			
	1S2075K					1N4148			
0063001	BDAY				0015	BDAY-0137001			
	DIODE					DIODE			
	1S2075K					1S1555			
0063001	BDAY				0015	BDAY-0181001			
	DIODE					DIODE			
	1S2075K					1N4148			
0063001	BDAY				0016	BDAY-0137001			
	DIODE					DIODE			
	1S2075K					1S1555			
0063001	BDAY				0016	BDAY-0181001			
	DIODE					DIODE			
	1S2075K					1N4148			
0063001	BDAY				0019	BDAY-0137001			
	DIODE					DIODE			
	1S2075K					1N4148			

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A C

A UL -C E SAA-C J VDE-C
 B UL F SAA J VDE
 C CSA-C G B5 -C
 D CSA H BS
 -C CERTIFICATION CARD

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BILL OF MATERIAL

REVISION NOTE NO.

CUSTOMER MODEL

MFR'S MODEL CODE
 U1543AN

REV	QTY	UNIT	DESCRIPTION	REF. NO.	DIODE
			BDAY 010E		DIODE
			0063001 1S2075K	0019	BDAY-0181001 1S1555
			BDAY 010E		DIODE
			0063001 1S2075K	0020	BDAY-0137001 1N4148
			BDAY 010E		DIODE
			0063001 1S2075K	0020	BDAY-0181001 1S1555
			BDAY 010E		DIODE
			0063001 1S2075K	0021	BDAY-0137001 1N4148
			BDAY 010E		DIODE
			0063001 1S2075K	0021	BDAY-0181001 1S1555
			BDAY 010E		DIODE
			0063001 1S2075K	0022	BDAY-0137001 1N4148
			BDAY 010E		DIODE
			0063001 1S2075K	0022	BDAY-0181001 1S1555
			BDAY 010E		DIODE
			0063001 1S2075K	0024	BDAY-0137001 1N4148
			BDAY 010E		DIODE
			0063001 1S2075K	0024	BDAY-0181001 1S1555
			BDAY 010E		DIODE
			0063001 1S2075K	0025	BDAY-0137001 1N4148
			BDAY 010E		DIODE
			0063001 1S2075K	0025	BDAY-0181001 1S1555
			BDAY 010E		DIODE
			0063001 1S2075K	0028	BDAY-0137001 1N4148
			BDAY 010E		DIODE
			0063001 1S2075K	0028	BDAY-0181001 1S1555
			BDAY 010E		DIODE
			0063001 1S2075K	0029	BDAY-0137001 1N4148
			BDAY 010E		DIODE
			0063001 1S2075K	0029	BDAY-0181001 1S1555
			BDAY 010E		DIODE
			0063001 1S2075K	0033	BDAY-0137001 1N4148
			BDAY 010E		DIODE
			0063001 1S2075K	0033	BDAY-0181001 1S1555
			BDAY 010E		DIODE
			0063001 1S2075K	0034	BDAY-0137001 1N4148
			BDAY 010E		DIODE
			0063001 1S2075K	0034	BDAY-0181001 1S1555
			BDAY 010E		DIODE
			0063001 1S2075K	0035	BDAY-0137001 1N4148
			BDAY 010E		DIODE
			0063001 1S2075K	0035	BDAY-0181001 1S1555
			BDAY 010E		DIODE
			0063001 1S2075K	0036	BDAY-0137001 1N4148
			BDAY 010E		DIODE
			0063001 1S2075K	0036	BDAY-0181001 1S1555
			BDAY 010E		DIODE
			0063001 1S2075K	0037	BDAY-0137001 1N4148
			BDAY 010E		DIODE
			0063001 1S2075K	0037	BDAY-0181001 1S1555
			BDAY 010E		DIODE

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A UL -C E SAA-C I VDE-C
 B UL F SAA J VDE
 C CSA-C BS -C
 D CSA H BS

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BILL OF MATERIAL

REVISION: NOTE NO

CUSTOMER MODEL

MFR'S MODEL CODE
 UT543AN

LEVEL	QTY	PART CODE	DESCRIPTION	REF. NO.	QTY	DELIVERY	REMARKS
		BDAY	DIODE				
		0063001	1S2075K	0038	BDAY-0137001		DIODE 1N4148
		BDAY	DIODE				
		0063001	1S2075K	0038	BDAY-0181001		DIODE 1S1555
		BDAY	DIODE				
		0063001	1S2075K	0039	BDAY-0137001		DIODE 1N4148
		BDAY	DIODE				
		0063001	1S2075K	0039	BDAY-0181001		DIODE 1S1555
		BDAY	DIODE				
		0063001	1S2075K	0041	BDAY-0137001		DIODE 1N4148
		BDAY	DIODE				
		0063001	1S2075K	0041	BDAY-0181001		DIODE 1S1555
		BDAY	DIODE				
		0063001	1S2075K	0042	BDAY-0137001		DIODE 1N4148
		BDAY	DIODE				
		0063001	1S2075K	0042	BDAY-0181001		DIODE 1S1555
		BDAY	DIODE				
		0063001	1S2075K	0043	BDAY-0137001		DIODE 1N4148
		BDAY	DIODE				
		0063001	1S2075K	0043	BDAY-0181001		DIODE 1S1555
		BDAY	DIODE				
		0063001	1S2075K	0045	BDAY-0137001		DIODE 1N4148
		BDAY	DIODE				
		0063001	1S2075K	0045	BDAY-0181001		DIODE 1S1555
		BDAY	DIODE				
		0063001	1S2075K	0046	BDAY-0137001		DIODE 1N4148
		BDAY	DIODE				
		0063001	1S2075K	0046	BDAY-0181001		DIODE 1S1555
		BDAY	DIODE				
		0063001	1S2075K	0047	BDAY-0137001		DIODE 1N4148
		BDAY	DIODE				
		0063001	1S2075K	0047	BDAY-0181001		DIODE 1S1555
		BDAY	DIODE				
		0063001	1S2075K	0048	BDAY-0137001		DIODE 1N4148
		BDAY	DIODE				
		0063001	1S2075K	0048	BDAY-0181001		DIODE 1S1555
		BDAY	DIODE				
		0063001	1S2075K	0049	BDAY-0137001		DIODE 1N4148
		BDAY	DIODE				
		0063001	1S2075K	0049	BDAY-0181001		DIODE 1S1555
		BDAY	DIODE				
		0063001	1S2075K	0050	BDAY-0137001		DIODE 1N4148
		BDAY	DIODE				
		0063001	1S2075K	0050	BDAY-0181001		DIODE 1S1555
		BDAY	DIODE				
		0063001	1S2075K	0051	BDAY-0137001		DIODE 1N4148
		BDAY	DIODE				
		0063001	1S2075K	0051	BDAY-0181001		DIODE 1S1555
		BDAY	DIODE				
		0063001	1S2075K	0052	BDAY-0137001		DIODE 1N4148

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A UL -C E SAA-C I VEE-2
 B UL F SAA J VDE
 C CSA-C G BS -C
 D CSA H BS

DATE 86.12.10
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CERTIFICATION CARD HT86-014

BILL OF MATERIAL

REVISION NOTE NO.

CUSTOMER MODEL

MER S MIKEL CODE
 UT543AN

LEVEL	PART CODE	DESCRIPTION	QTY	UNIT	REVISION	DATE	BY	REMARKS
	BWAY	DIODE						DIODE
	0063001	1S2075K	0052	BWAY-0181001				1S1555
	BWAY	DIODE						DIODE
	0063001	1S2075K	0053	BWAY-0137001				1N4148
	BWAY	DIODE						DIODE
	0063001	1S2075K	0053	BWAY-0181001				1S1555
	BWAY	DIODE						DIODE
	0063001	1S2075K	0054	BWAY-0137001				1N4148
	BWAY	DIODE						DIODE
	0063001	1S2075K	0054	BWAY-0181001				1S1555
	BWAY	DIODE						DIODE
	0063001	1S2075K	0055	BWAY-0137001				1N4148
	BWAY	DIODE						DIODE
	0063001	1S2075K	0055	BWAY-0181001				1S1555
	BWAY	DIODE						DIODE
	0063001	1S2075K	0056	BWAY-0137001				1N4148
	BWAY	DIODE						DIODE
	0063001	1S2075K	0056	BWAY-0181001				1S1555
	BWAY	DIODE						DIODE
	0063001	1S2075K	0057	BWAY-0137001				1N4148
	BWAY	DIODE						DIODE
	0063001	1S2075K	0057	BWAY-0181001				1S1555
	BWAY	DIODE						DIODE
	0063001	1S2075K	0058	BWAY-0137001				1N4148
	BWAY	DIODE						DIODE
	0063001	1S2075K	0058	BWAY-0181001				1S1555
	BWAY	DIODE						DIODE
	0063001	1S2075K	0060	BWAY-0137001				1N4148
	BWAY	DIODE						DIODE
	0063001	1S2075K	0060	BWAY-0181001				1S1555
	BWAY	DIODE						DIODE
	0063001	1S2075K	0064	BWAY-0137001				1N4148
	BWAY	DIODE						DIODE
	0063001	1S2075K	0064	BWAY-0181001				1S1555
	BWAY	DIODE						DIODE
	0063001	1S2075K	0065	BWAY-0137001				1N4148
	BWAY	DIODE						DIODE
	0063001	1S2075K	0065	BWAY-0181001				1S1555
	BWAY	DIODE						DIODE
	0063001	1S2075K	0066	BWAY-0137001				1N4148
	BWAY	DIODE						DIODE
	0063001	1S2075K	0066	BWAY-0181001				1S1555
	BWAY	DIODE						DIODE
	0063001	1S2075K	0067	BWAY-0137001				1N4148
	BWAY	DIODE						DIODE
	0063001	1S2075K	0067	BWAY-0181001				1S1555
	BWAY	DIODE						DIODE
	0063001	1S2075K	0068	BWAY-0137001				1N4148
	BWAY	DIODE						DIODE
	0063001	1S2075K	0068	BWAY-0181001				1S1555

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A UL - C E SAA - C I VDE - C
 B UL - F SAA - J VDE
 C CSA - C G BS - C
 D CSA - H BS

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-C- CERTIFICATION CARD
 HT86-014

BILL OF MATERIAL

REVISION NOTE NO

CUSTOMER MODEL

MFR S MODEL CODE
 UT543AN

REV	QTY	UNIT	DESCRIPTION	REF	QTY	UNIT	DESCRIPTION
			DIODE				DIODE
	0072	BDAY-0137001	1N4148				1N4148
			DIODE				DIODE
	0072	BDAY-0181001	1S1555				1S1555
			DIODE				DIODE
	0073	BDAY-0137001	1N4148				1N4148
			DIODE				DIODE
	0073	BDAY-0181001	1S1555				1S1555
			DIODE				DIODE
	0074	BDAY-0137001	1N4148				1N4148
			DIODE				DIODE
	0074	BDAY-0181001	1S1555				1S1555
			DIODE				DIODE
	0076	BDAY-0137001	1N4148				1N4148
			DIODE				DIODE
	0076	BDAY-0181001	1S1555				1S1555
			DIODE				DIODE
	0078	BDAY-0137001	1N4148				1N4148
			DIODE				DIODE
	0078	BDAY-0181001	1S1555				1S1555
			DIODE				DIODE
	0079	BDAY-0137001	1N4148				1N4148
			DIODE				DIODE
	0079	BDAY-0181001	1S1555				1S1555
			DIODE				DIODE
	0081	BDAY-0137001	1N4148				1N4148
			DIODE				DIODE
	0081	BDAY-0181001	1S1555				1S1555
			DIODE: VARI-CAP				DIODE: VARI-CAP
	0040	BDAY-0006009	1S2688EB				1S2688EB
			DIODE: VARI-CAP				DIODE: VARI-CAP
	0044	BDAY-0006009	1S2688EB				1S2688EB
			TRANSISTOR				TRANSISTOR
	TF006	BDAY-0733506	DR-003 2SA733A-P				DR-003 2SA733A-P
			TRANSISTOR				TRANSISTOR
	TR022	BDAY-0520001	DR-520 MPS H 10				DR-520 MPS H 10
			TRANSISTOR				TRANSISTOR
	TR022	BDAY-0521001	DR-521 LSP1200				DR-521 LSP1200
			INTEGRATED CIRCUIT				INTEGRATED CIRCUIT
	IC004	BDAY-0526001	BA455F				BA455F
			INTEGRATED CIRCUIT				INTEGRATED CIRCUIT
	IC004	BDAY-0526001	M5218P				M5218P
			INTEGRATED CIRCUIT				INTEGRATED CIRCUIT
	IC002	BDAY-0196001	UPC1028H				UPC1028H
			INTEGRATED CIRCUIT				INTEGRATED CIRCUIT
	IC008	BDAY-0314001	HD14008BP				HD14008BP
			INTEGRATED CIRCUIT				INTEGRATED CIRCUIT
	IC008	BDAY-0297001	TC4008EP				TC4008EP
			INTEGRATED CIRCUIT				INTEGRATED CIRCUIT
	IC009	BDAY-0314001	HD14008BP				HD14008BP

BILL OF MATERIAL

MFR'S MODEL CODE
 UT543AN

CUSTOMER MODEL

REVISION NOTE NO.

QTY	UOM	PART CODE	DESCRIPTION	REF. NO.	QTY	UOM	PART CODE	DESCRIPTION	REF. NO.	QTY	UOM	PART CODE	DESCRIPTION	REF. NO.	REMARKS
		BDEY	INTEGRATED CIRCUIT				IC009	BDEY-0287001							INTEGRATED CIRCUIT
		0250001	MC1408BCP												TC408BP
		BDEY	INTEGRATED CIRCUIT				IC001	BDEY-0284001							INTEGRATED CIRCUIT
		0312001	NJM2902N												TA75902P
		BFLY	FILTER: CRYSTAL				FL003	9FLY-0090001							FILTER: CRYSTAL
		0096001	FL-096 MF10J02												FL-090 UMF-058(10.695)
		BLCY	COIL				L037	9LCY-0018001							COIL
		0124001	LC-184 2.5T.D0.6UEW												LC-018 TC-71024
		BDBA	TRANSISTOR				TR034	9DBA-0733506							TRANSISTOR
		0733115	DB-003 2SA733-P												DB-003 2SA733A-P
		BDBB	TRANSISTOR				TR035	9DBB-0525104							TRANSISTOR
		0525103	DB-106 2SB525-C												DB-106 2SB525-D
		BDBB	TRANSISTOR				TR035	9DBB-0525105							TRANSISTOR
		0525103	DB-106 2SB525-C												DB-106 2SB525-E
		BDBB	TRANSISTOR				TR037	9DBB-0525104							TRANSISTOR
		0525103	DB-106 2SB525-C												DB-106 2SB525-D
		BDBB	TRANSISTOR				TR037	9DBB-0525105							TRANSISTOR
		0525103	DB-106 2SB525-C												DB-106 2SB525-E
		BDBC	TRANSISTOR				TP045	9DBZ-0520001							TRANSISTOR
		1730111	DB-269 2SC1730-L												DB-520 MPS H 10
		BDBC	TRANSISTOR				TR045	9DBZ-0521001							TRANSISTOR
		1730111	DB-269 2SC1730-L												DB-521 LSP1200
		BDBB	TRANSISTOR				TR047	9DBB-0754124							TRANSISTOR
		N 0754114	DB-110 2SB754-0												DB-110 2SB754-Y
		BDBC	TRANSISTOR				TP041	9DBC-2312102							TRANSISTOR
		N 2312103	DB-332 2SC2312-C												DB-332 2SC2312-B
		BDBC	TRANSISTOR				TP041	9DBC-2312104							TRANSISTOR
		N 2312103	DB-332 2SC2312-C												DB-332 2SC2312-D
		BDBC	TRANSISTOR				TP042	9DBC-2312102							TRANSISTOR
		N 2312103	DB-332 2SC2312-C												DB-332 2SC2312-B
		BDBB	TRANSISTOR				TR042	9DBB-2312104							TRANSISTOR
		N 2312103	DB-332 2SC2312-C												DB-332 2SC2312-D
		BJKY	JACK W/O LUG				J503	9JKY-0370002							JACK
		0068002	JK-068 N-7512												JK-370 W/O LUG
		BRVY	RESISTOR: VARIABLE				VR503	9RVY-0135001							RESISTOR: VARIABLE
		0222001	RV-222 20KB												RV-130 20KB
		ESRY	SWITCH: ROTARY				S509	9SRY-0235001							SWITCH: ROTARY
		0187001	SR-187 SFN1074N												SR-235 USW-0273
		BSRY	SWITCH: ROTARY				S502	9SRY-0237001							SWITCH: ROTARY
		0205001	SR-205 SRN1043N												SR-233 USW-0271
		BWFY	FLAT CABLE				FC001	9WFY-0610509							FLAT CABLE
		0230502	WF-023 6S-50-3.5												WF-061 3-50-3