

Service Manual

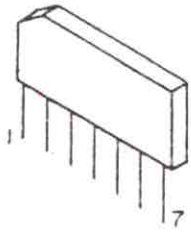
CB TRANSCEIVER

Model GRANT

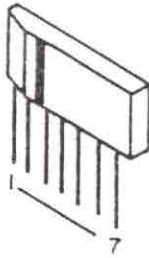
UT - 543A

uniden®
CORPORATION

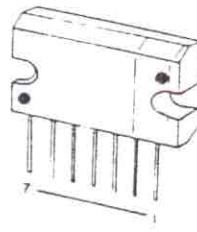
μ PC1028H



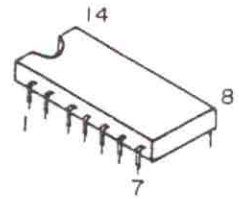
AN612



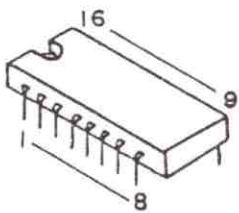
μ PC1182H



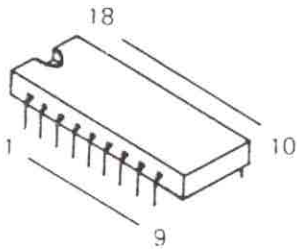
TA75902P
SO42P



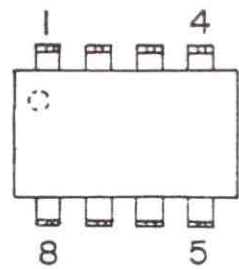
TC4008BP



MB8719



NJM4558D



TRANSISTORS

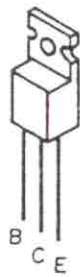
- 2SA733
- 2SC945
- 2SC1674
- 2SC1675
- 2SC1730
- 2SC1973



2SB525



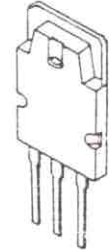
- 2SA473
- 2SC2312
- 2SC2166



2SD471

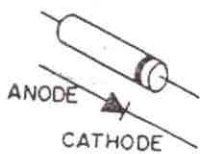


2SB754

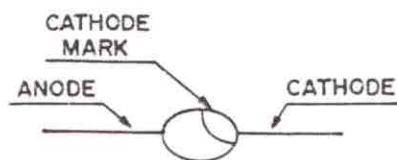


DIODES

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



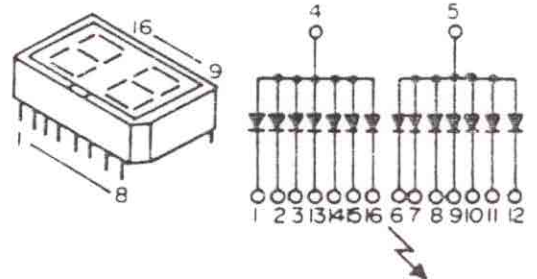
- KB262
- KB362



- 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

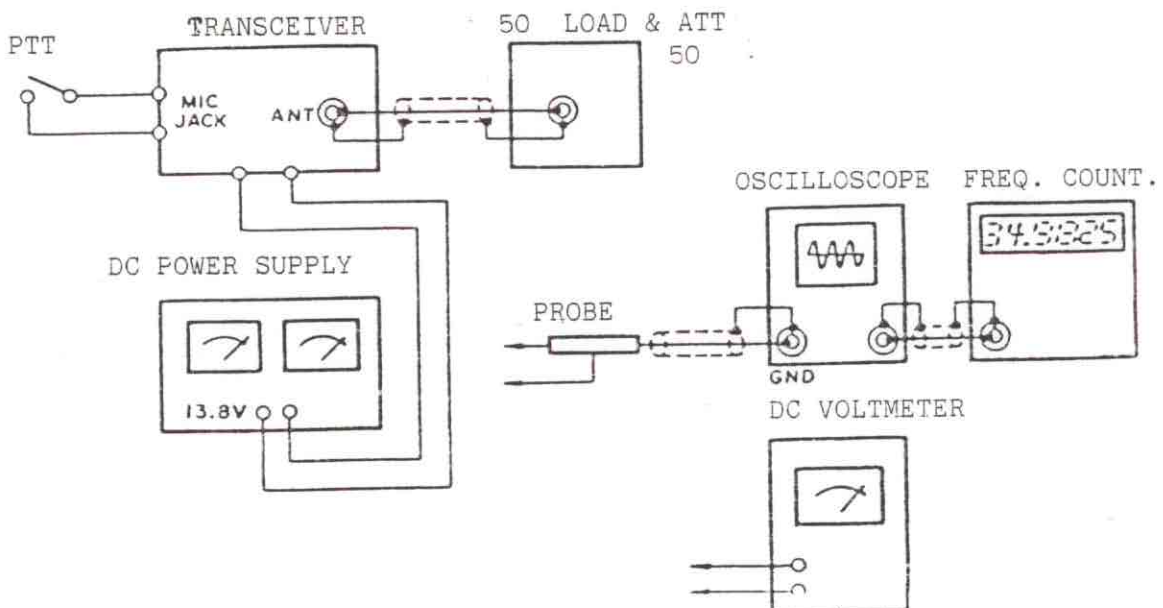
1. TEST EQUIPMENT REQUIRED

- 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

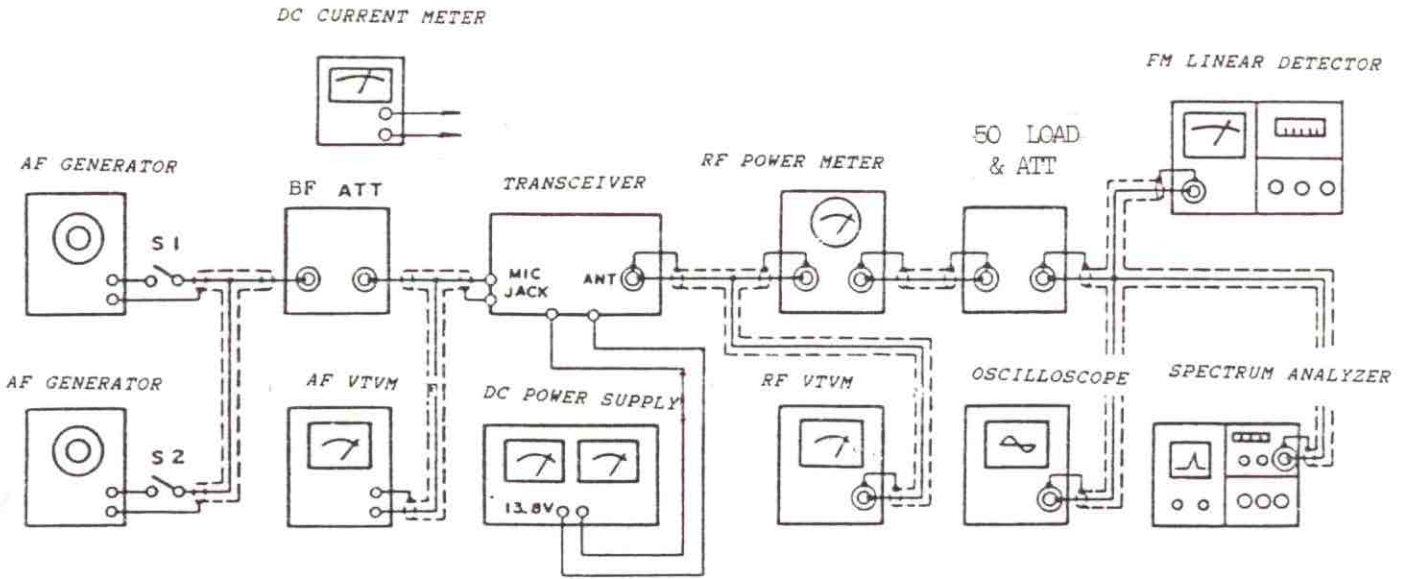
- | | |
|---------------------|----------------------|
| A. 2 AF generator | F. frequency counter |
| B. RF power meter | G. 500 Ohm load |
| C. DC power supply | H. RF VTVM |
| D. DC current meter | I. oscilloscope |
| E. AF VTVM | J. spectrum analyzer |

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

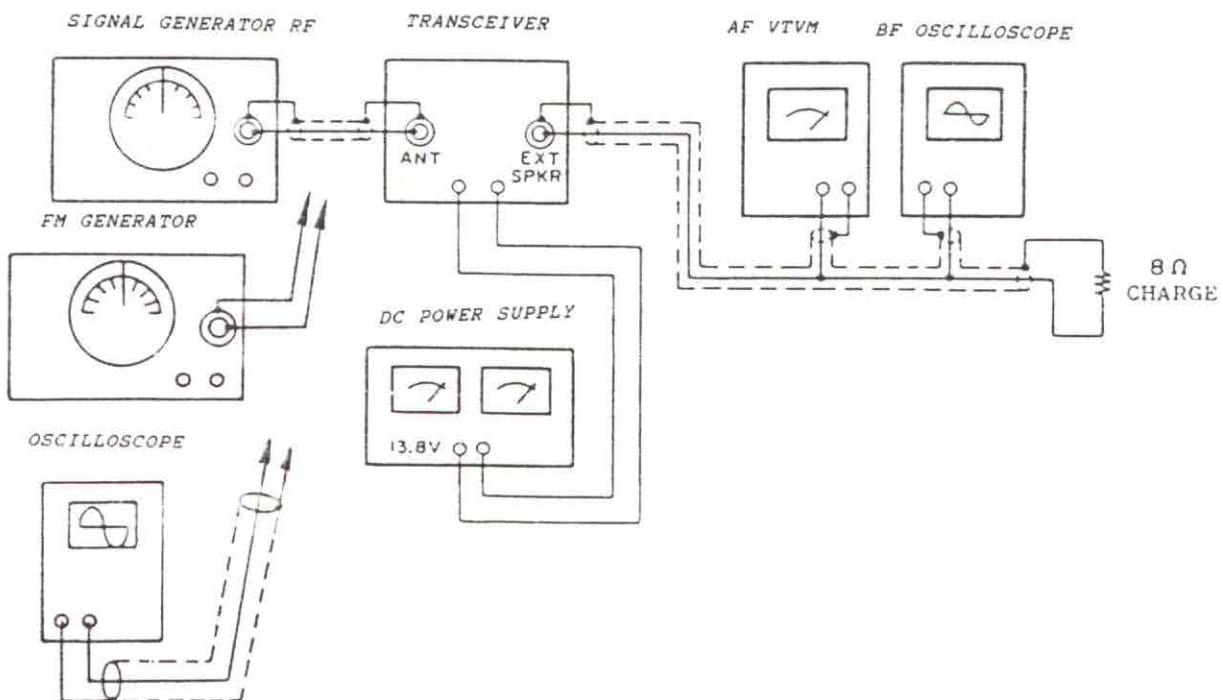
TEST EQUIPMENT CONNECTION

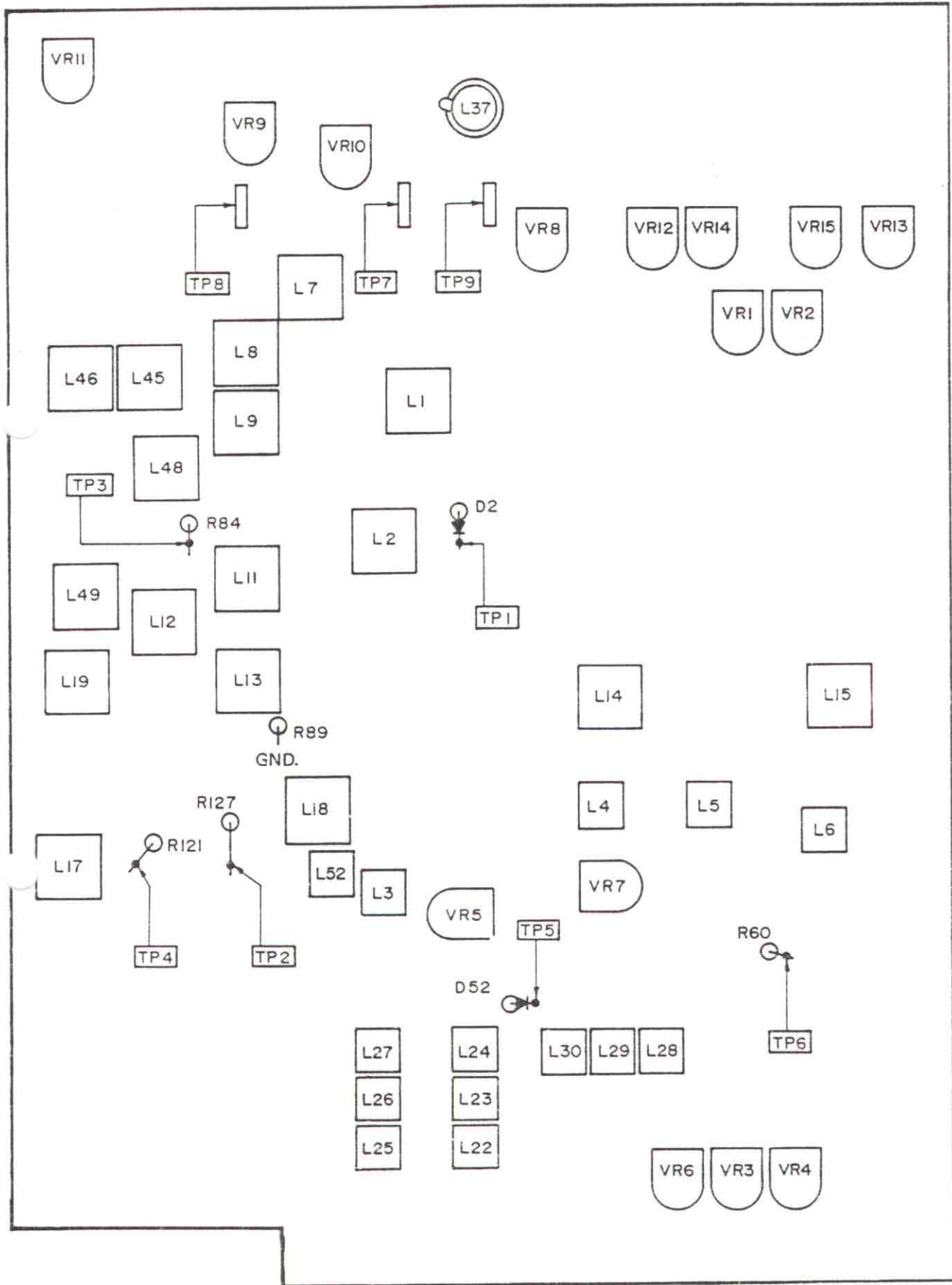
ALIGNMENT OF TRANSMITTER



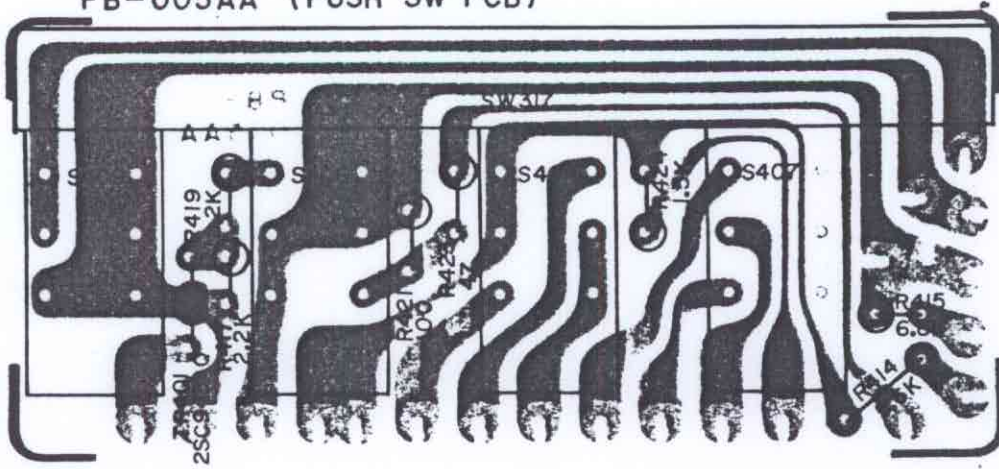
TEST EQUIPMENT CONNECTION

ALIGNMENT OF RECEIVER

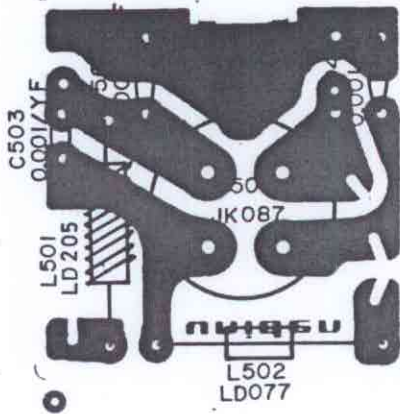




PB-005AA (PUSH SW PCB)



●PC-266AA (MIC JACK PCB)



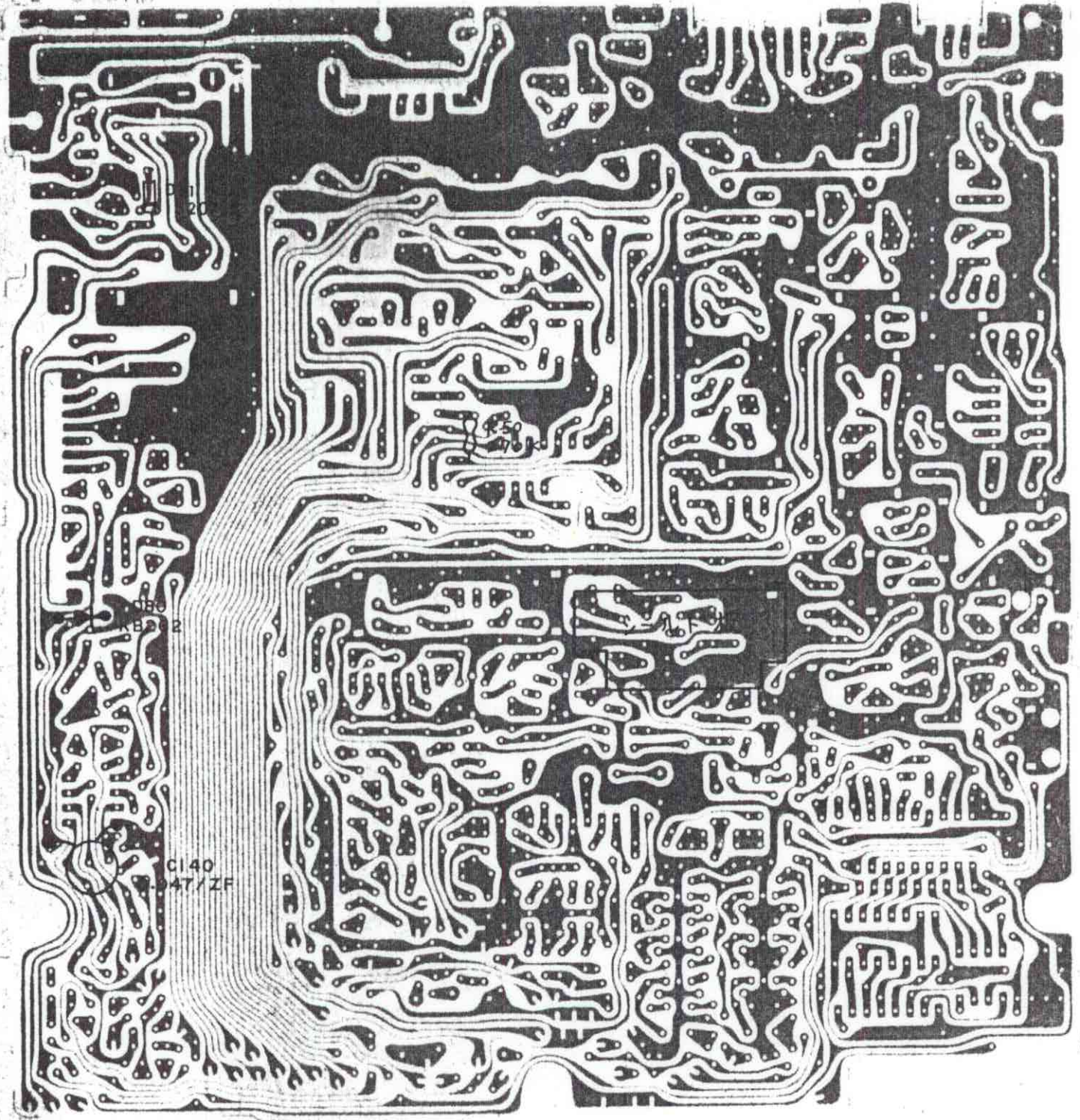
注) 指示用抵抗は、1/8Wである

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

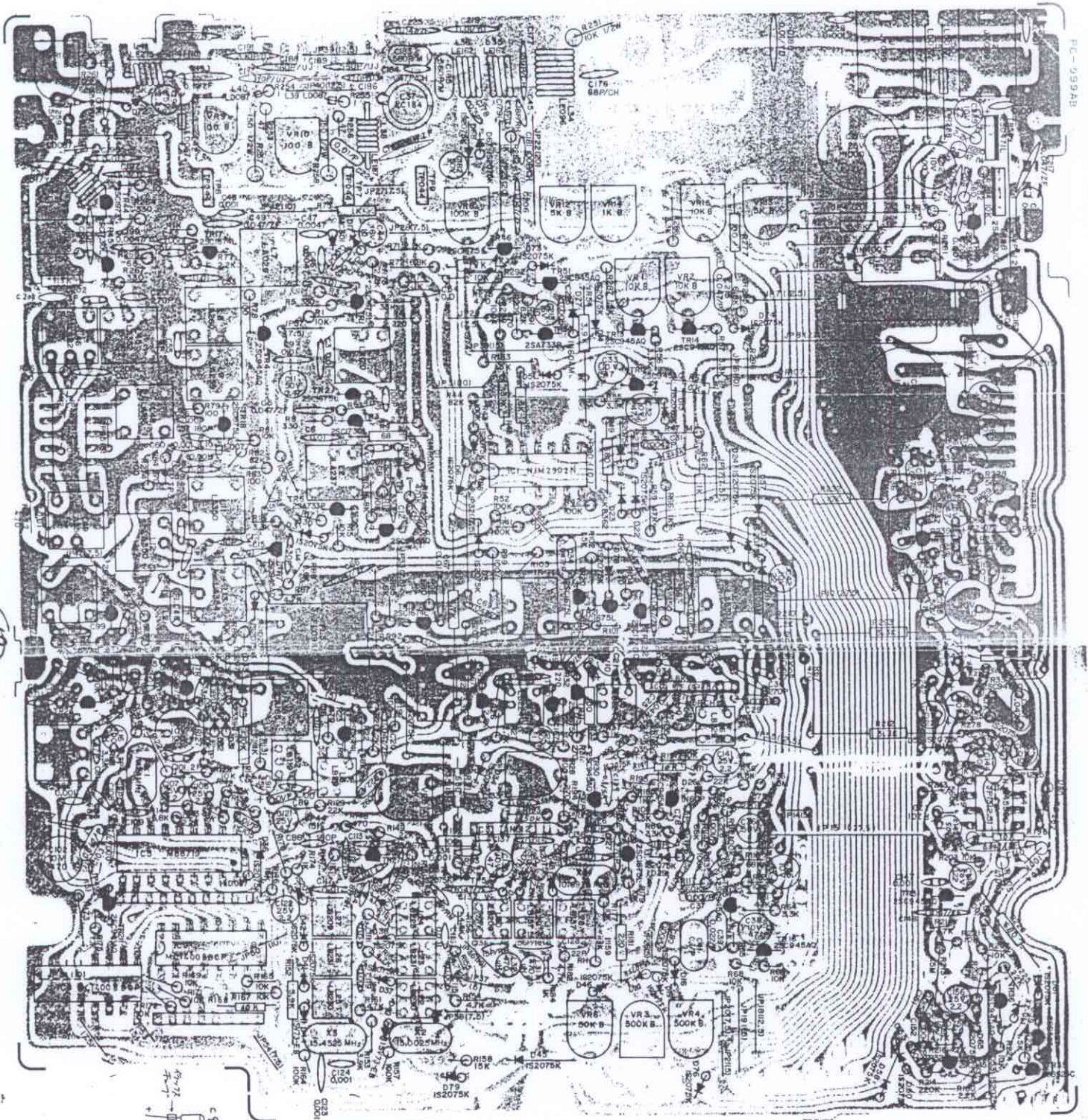
PG-999AB



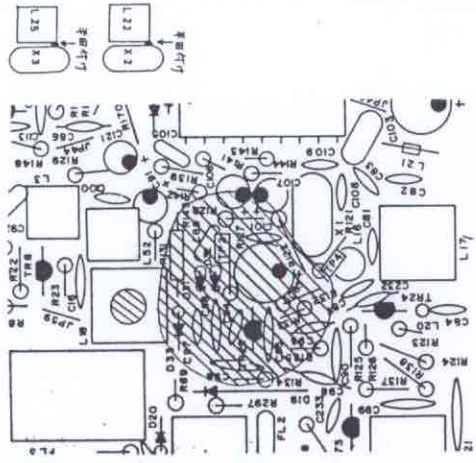
E24-3746

UT-543B 

機種名	UT-543A		
図名	裏部品取付図		
図番	E24-3746		
承認	設計	担当	作成
			SS6.2.3
			124



12



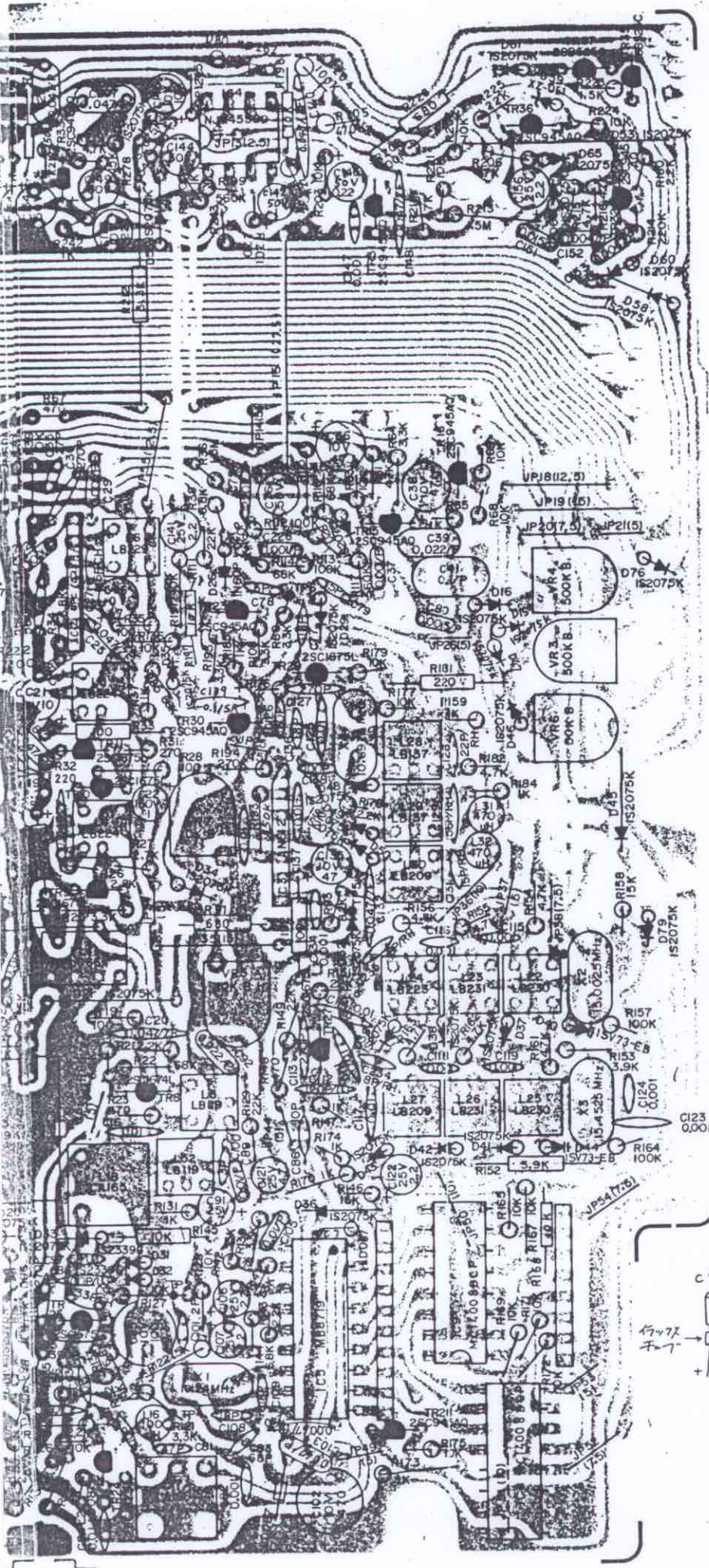
斜線部は20milの寸事

- NOTES:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILLO OHM, M=MEG OHM)
 2. RESISTOR WATTAGES ARE 1/8W UNLESS OTHERWISE NOTED.
 3. CAPACITANCE VALUES ARE INDICATED IN MICROFARADS UNLESS OTHERWISE NOTED. (P=PICTO-MICROFARAD)
 4. ALL CAPACITORS, UNLESS OTHERWISE NOTED, ARE 50VDC. (ELECTROLYTIC CAPACITORS ARE 10VDC UNLESS OTHERWISE NOTED.)

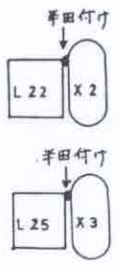
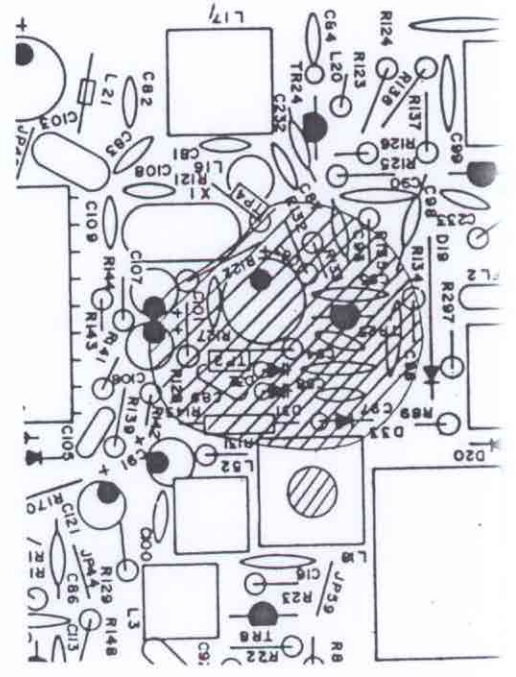
機種名	UT-543/
名	MAIN PCB (REV. 10)
図番	E22-3744
製	1982.12.16
製	37D

A

B



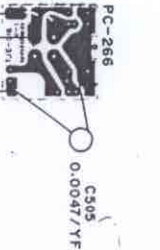
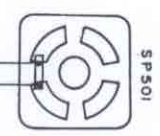
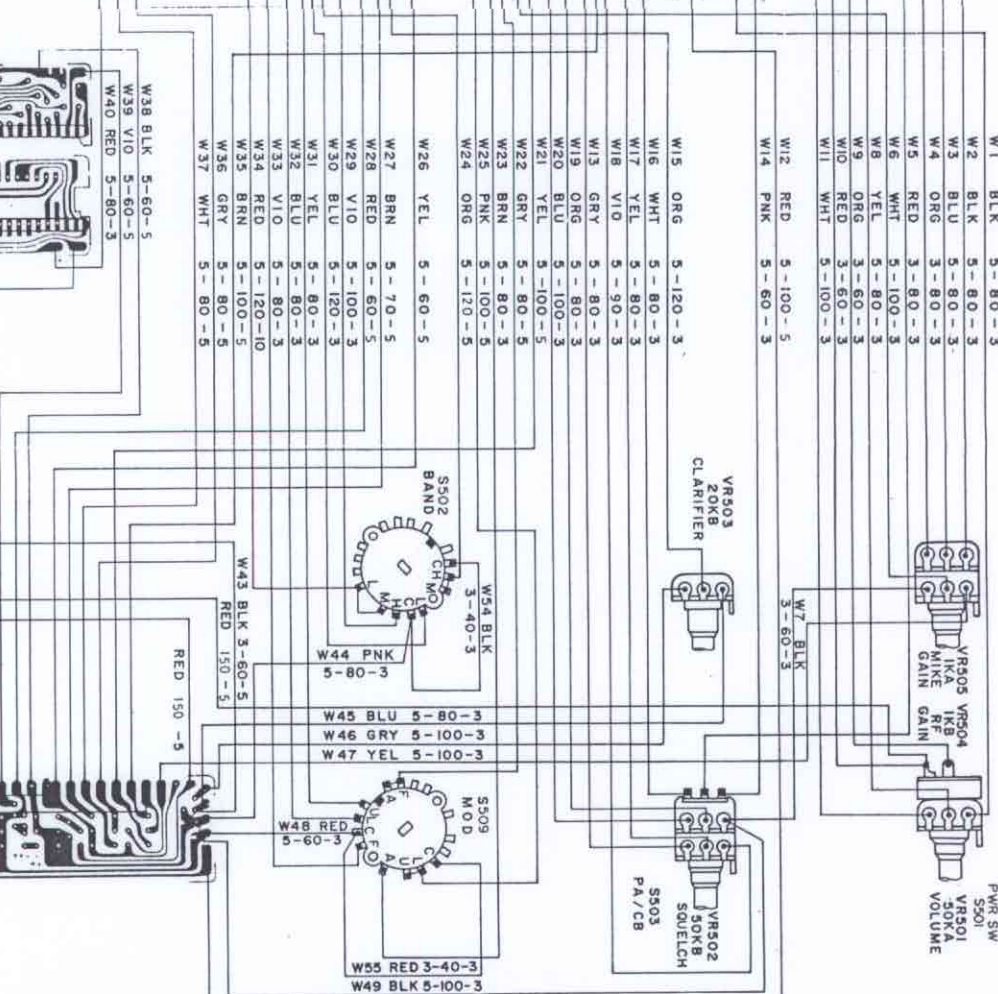
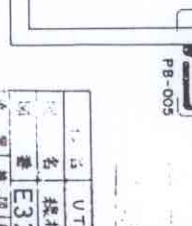
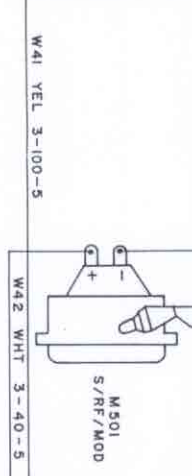
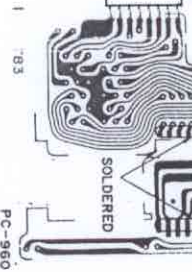
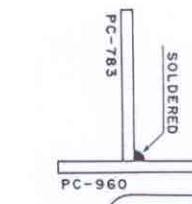
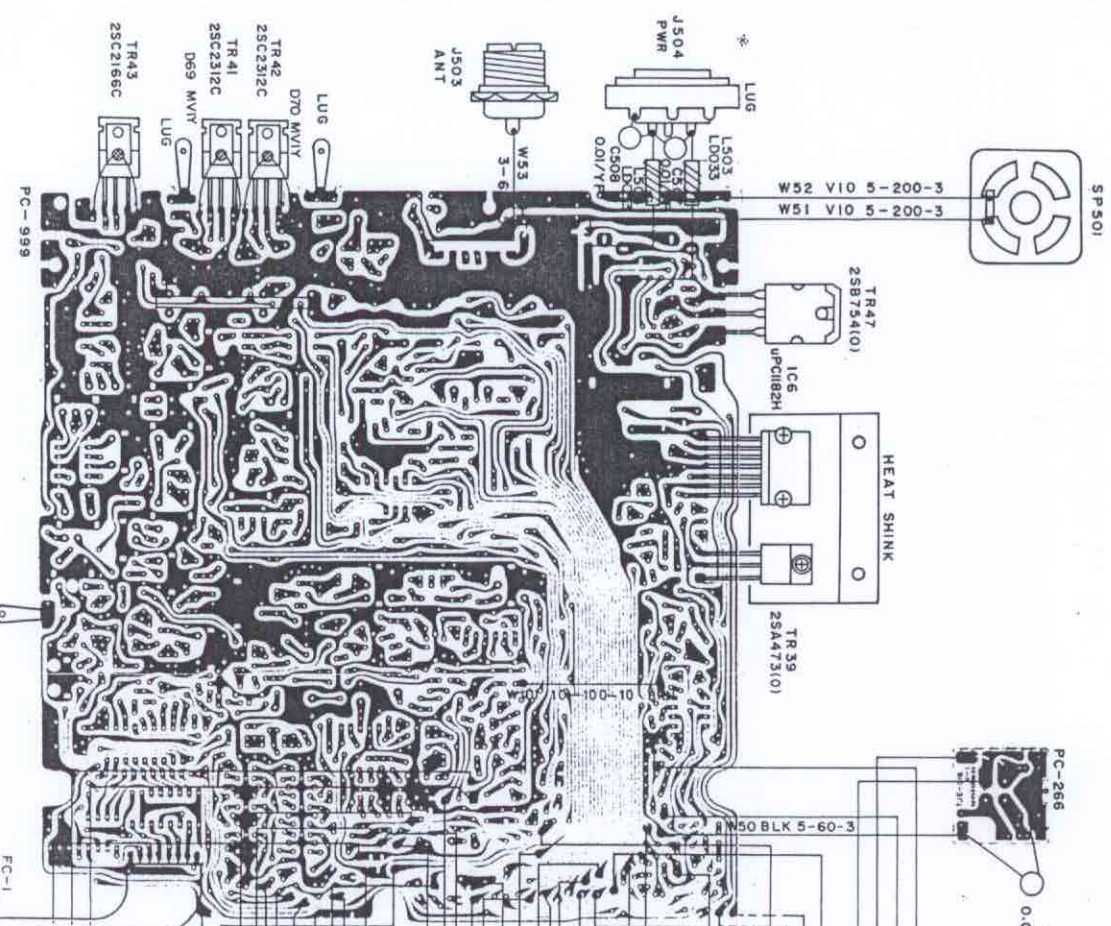
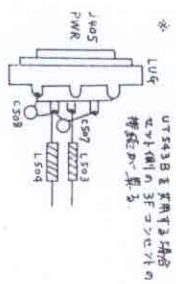
斜線部パラスインロットする事



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 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 1000PF) OR YF (MORE THAN 1000PF) UNLESS OTHERWISE NOTED.

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

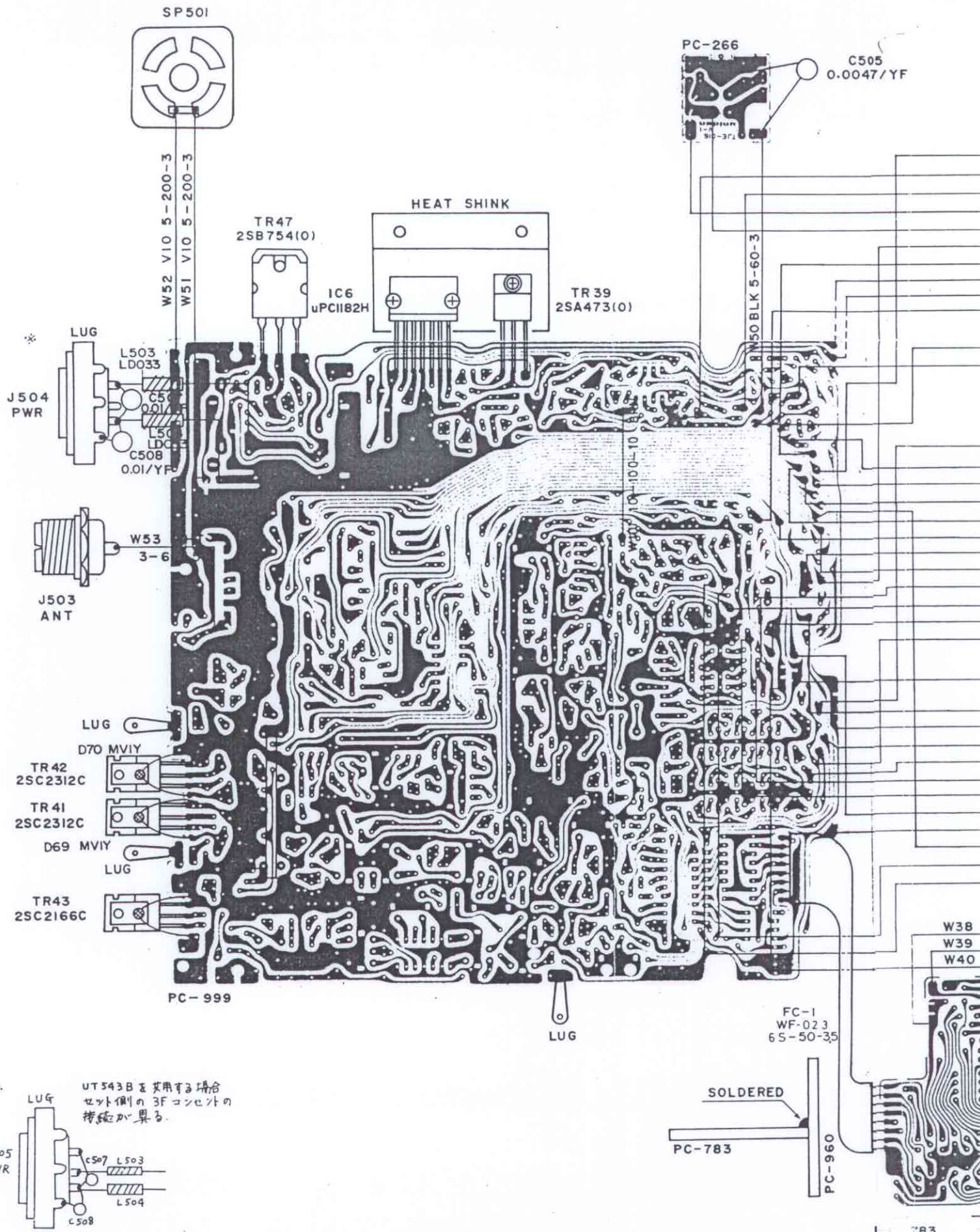
12 B



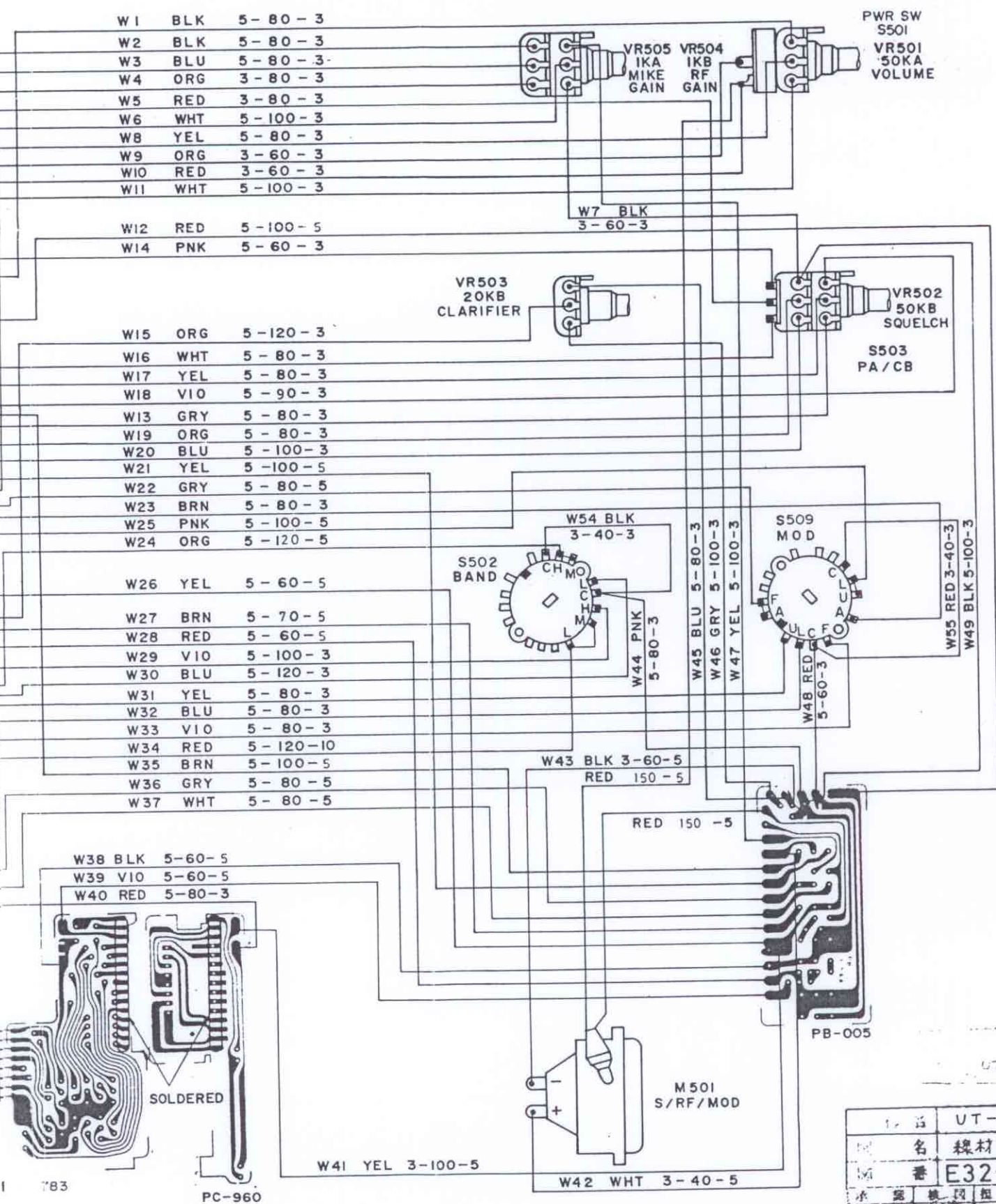
13

品名	VT-543A
材料	材料使用図
仕様	E32-1907
製	IMV

UT-543B



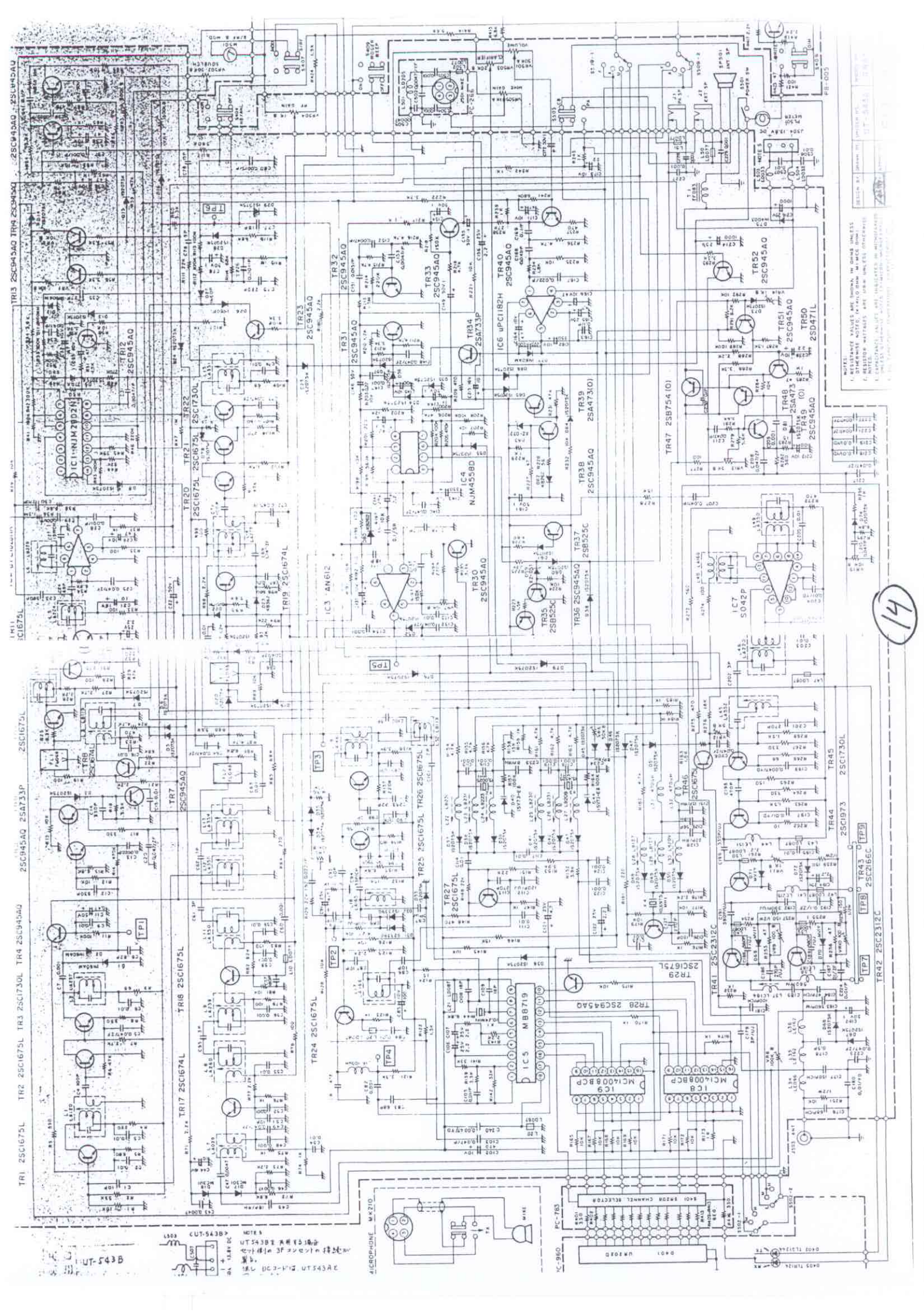
13A



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
CUT-543B

TR1 25C675L TR2 25C675L TR3 25C675L TR4 25C945AQ
TR5 25C675L TR6 25C675L TR7 25C945AQ TR8 25C675L
TR9 25C675L TR10 25C675L TR11 25C675L TR12 25C945AQ
TR13 25C945AQ TR14 25C945AQ TR15 25C945AQ TR16 25C945AQ
TR17 25C675L TR18 25C675L TR19 25C675L TR20 25C675L
TR21 25C675L TR22 25C675L TR23 25C945AQ TR24 25C675L
TR25 25C675L TR26 25C675L TR27 25C675L TR28 25C945AQ
TR29 25C675L TR30 25C945AQ TR31 25C945AQ TR32 25C945AQ
TR33 25C945AQ TR34 25A733P TR35 25B525K TR36 25C945AQ
TR37 25B525K TR38 25C945AQ TR39 25A473(O) TR40 25C945AQ
TR41 25C2312C TR42 25C2312C TR43 25C945AQ TR44 25C945AQ
TR45 25C675L TR46 25C675L TR47 25B754(O) TR48 25A473(O)
TR49 25C945AQ TR50 25C945AQ TR51 25C945AQ TR52 25C945AQ
TR53 25C945AQ TR54 25C945AQ TR55 25C945AQ TR56 25C945AQ
TR57 25C945AQ TR58 25C945AQ TR59 25C945AQ TR60 25D471L

IC1 MCM2021K IC2 NJM4558D IC3 AN612 IC4 uPC1182H
IC5 MBR719 IC6 M14008BCP IC7 S042P IC8 M14008BCP
IC9 M14008BCP

CAPACITORS: C1-C100
RESISTORS: R1-R100

WELDED POINTS: WELDED POINTS
SOLDER BRIDGE: SOLDER BRIDGE

WELDED POINTS: WELDED POINTS
SOLDER BRIDGE: SOLDER BRIDGE

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NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DIMENSIONS IN PARENTHESES ARE IN INCHES.
3. DIMENSIONS IN PARENTHESES ARE IN INCHES.
4. DIMENSIONS IN PARENTHESES ARE IN INCHES.

14

TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 TP9

TP10 TP11 TP12 TP13 TP14 TP15 TP16 TP17 TP18 TP19 TP20

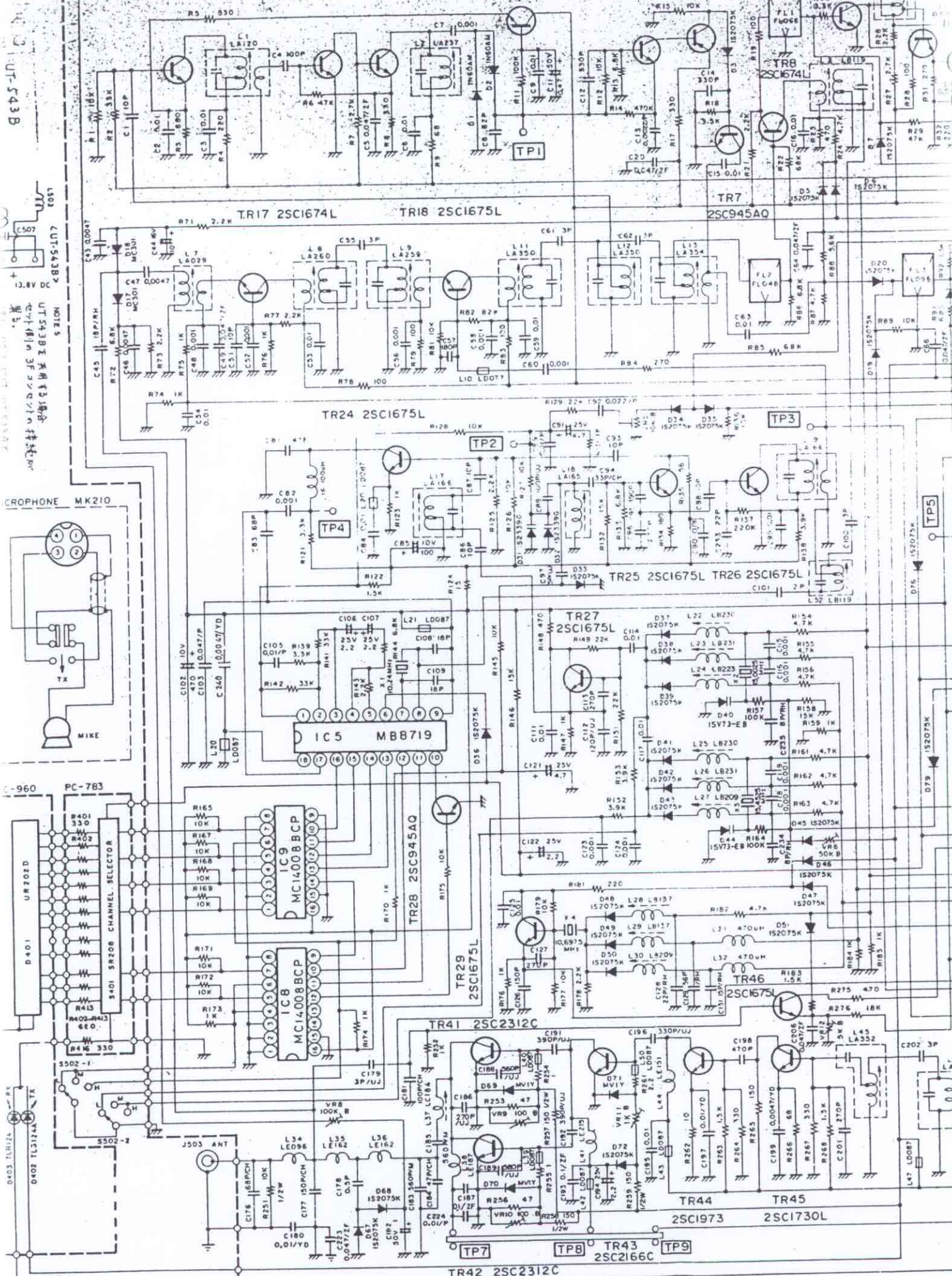
TP21 TP22 TP23 TP24 TP25 TP26 TP27 TP28 TP29 TP30

TP31 TP32 TP33 TP34 TP35 TP36 TP37 TP38 TP39 TP40

TP41 TP42 TP43 TP44 TP45 TP46 TP47 TP48 TP49 TP50

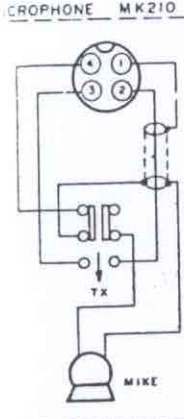
TP51 TP52 TP53 TP54 TP55 TP56 TP57 TP58 TP59 TP60

TP61 TP62 TP63 TP64 TP65 TP66 TP67 TP68 TP69 TP70

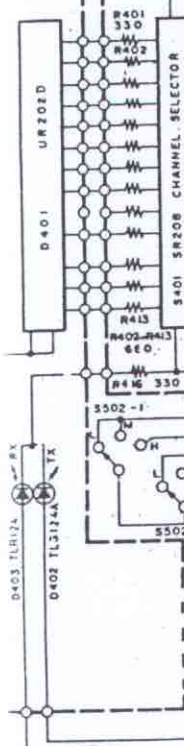


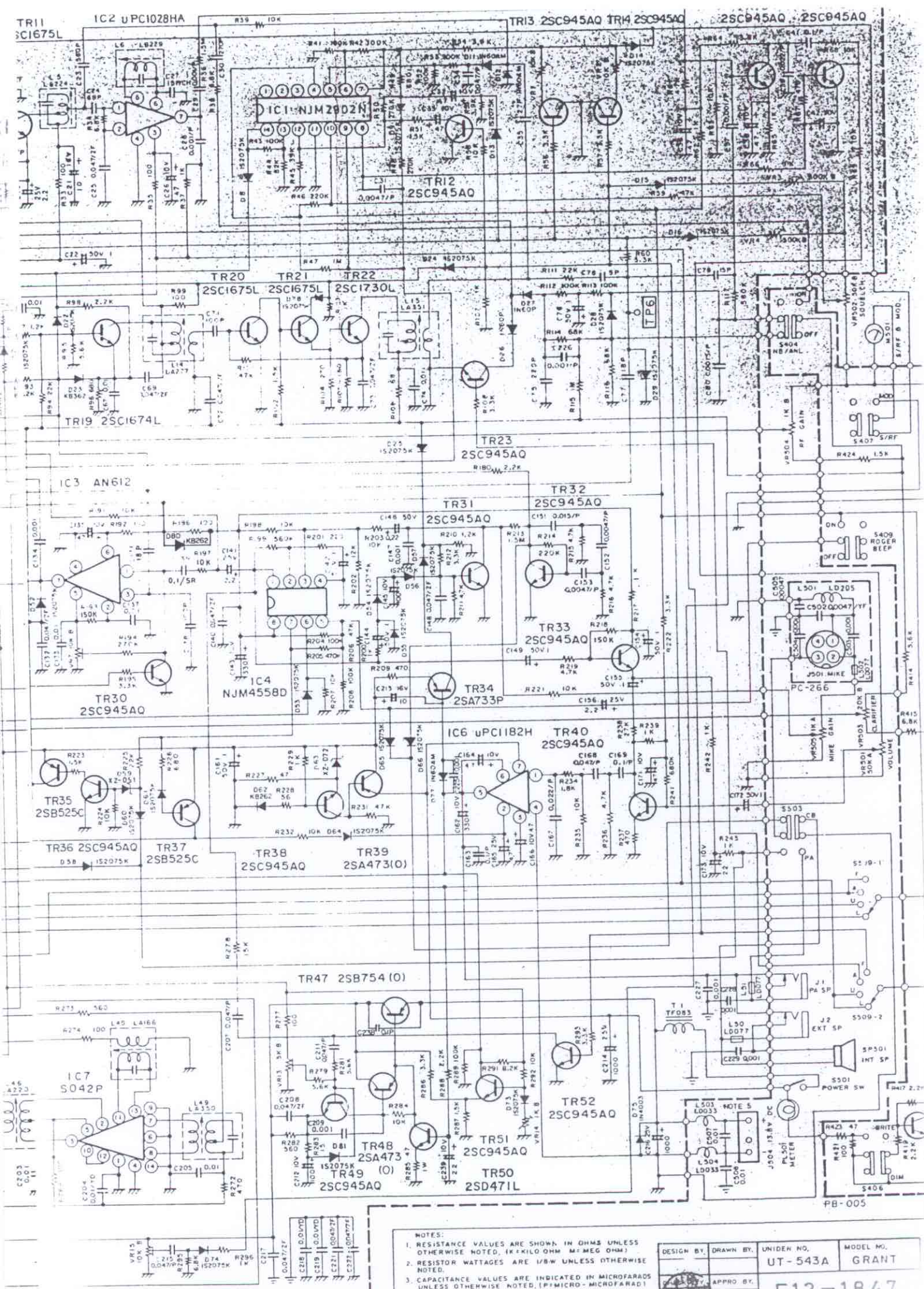
UT-543B

NOTE 5
UT-543B 天用部品
UT-543B 天用部品
天用部品の接続は



PC-783





- 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=PICTO-MICROFARAD)
 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

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A UL -C E SAA-C I VDF-C
 B UL F SAA J VDE
 C CSA-C G BS -C
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LEVEL	C	PART CODE	DESCRIPTION	REF. INC.	QTY	UNIT	DELIVERY	REMARKS
1		AT54	UT-543A(N)(E)	10-00000	1			
2		3AMBE	UT-543A(N) MAIN PCB ASS'Y		1			
		AT54			1			
		3AMBEA			1			
3		BCCC	CAPACITOR:CERAMIC					
		811015Z	100PF 50V K CH	C181	1			T
3		BCCC	CAPACITOR:CERAMIC					
		811505Z	15PF 50V K CH	C027	1			T
3		BCCC	CAPACITOR:CERAMIC					
		811515Z	150PF 50V K CH	C177	1			T
3		BCCC	CAPACITOR:CERAMIC					
		813305Z	33PF 50V K CH	C094	1			T
3		BCCC	CAPACITOR:CERAMIC					
		814705Z	47PF 50V K CH	C184	1			T
3		BCCC	CAPACITOR:CERAMIC					
		816805Z	68PF 50V K CH	C176	1			T
3		BCCG	CAPACITOR:CERAMIC					
		811002Z	10PF 50V D SL	C001 C086	6			T
				C087 C098				
3		BCCG	CAPACITOR:CERAMIC					
		811015Z	100PF 50V K SL	C004 C071 C138	3			T
3		PCCG	CAPACITOR:CERAMIC					
		811505Z	15PF 50V K SL	C079	1			T
3		BCCG	CAPACITOR:CERAMIC					
		811515Z	150PF 50V K SL	C126	1			T
3		BCCG	CAPACITOR:CERAMIC					
		811805Z	18PF 50V K SL	C077 C108 C109 C136	4			T
3		BCCG	CAPACITOR:CERAMIC					
		812091Z	2PF 50V C SL	C057	1			T
3		BCCG	CAPACITOR:CERAMIC					
		812205Z	22PF 50V K SL	C101	1			T
3		BCCG	CAPACITOR:CERAMIC					
		812215Z	220PF 50V K SL	C233	1			T
3		RCCG	CAPACITOR:CERAMIC					
		812705Z	27PF 50V K SL	C075	1			T
3		BCCG	CAPACITOR:CERAMIC					
		812715Z	270PF 50V K SL	C035	1			T
3		BCCG	CAPACITOR:CERAMIC					
		211091Z	2PF 50V C SL	C030 C096 C113 C127 C201 C055 C061 C100 C202	5			T
3		PCCG	CAPACITOR:CERAMIC					
		813315Z	330PF 50V K SL	C012 C014	2			T
3		BCCG	CAPACITOR:CERAMIC					
		813915Z	390PF 50V K SL	C095	1			T
3		BCCG	CAPACITOR:CERAMIC					
		814705Z	47PF 50V K SL	C081	1			T
3		BCCG	CAPACITOR:CERAMIC					
		814715Z	470PF 50V K SL	C198	1			T
3		PCCG	CAPACITOR:CERAMIC					
		815091Z	0.5PF 50V C SL	C178	1			T

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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		PCCR	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		BCFE	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		BCFL	CAPACITOR: ELECTROLYTIC					
	2	112200Z	22UF 10V	C042 C173 C229		2		T
3		BCFL	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	11710Z	470UF 10V	C102		1		T

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3	3	CAPACITOR:ELECTROLYTIC 10UF 16V	C021 C044 C213	3	T
3	2	CAPACITOR:ELECTROLYTIC 1000UF 25V	C214 C019 C106 C107 C122 C141 C156 C194	2	T
3	7	CAPACITOR:ELECTROLYTIC 4.7UF 25V	C091 C121 C165 C022 C076 C142 C144 C149 C154 C155 C161 C172 C182	7	T
3	3	CAPACITOR:ELECTROLYTIC 1UF 50V	C011 C139 C187 C193 C005 C017 C020 C025 C049 C064 C066 C069 C072 C073 C132 C140 C148 C206 C208 C217 C221 C222 C223	10	T
3	1	CAPACITOR:SEMI-CONDUCTOR(SR)	C011	1	T
3	1	CAPACITOR:CERAMIC 0.1UF 25V Z ZF	C139	1	N
3	2	CAPACITOR:CERAMIC 0.1UF 25V Z ZF	C187 C193	2	T
3	1	CAPACITOR:CERAMIC 0.047UF 25V Z ZF	C020 C025 C049 C064 C066 C069 C072 C073 C132 C140 C148 C206 C208 C217 C221 C222 C223	1	T
3	5	CAPACITOR:CERAMIC 0.01UF 50V M YD	C180 C197 C204 C218 C219	5	T
3	2	CAPACITOR:CERAMIC 0.0047UF 50V M YD	C199 C240 C007 C048 C052 C056 C058 C060 C082 C115 C116 C118 C119 C123 C124 C134 C147 C209 C225 C227 C228 C229	2	T
3	2	CAPACITOR:CERAMIC 0.001UF 50V Z YF	C002 C003 C006 C009 C015 C016 C053 C054 C059 C063 C065 C067 C074 C084 C090 C099 C111 C114 C117 C125 C133 C137 C195 C203 C205	2	T

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LEVEL	QTY	REF. NO.	DESCRIPTION	QTY	REF. NO.	DESCRIPTION	QTY	REF. NO.	DESCRIPTION	REMARKS
3	3	C043	BC9M CAPACITOR: CERAMIC	3	C046	0.0047UF 50V Z YF	3	C047		T
3	4	C028	BC9M CAPACITOR: MYLAR	4	C029	0.001UF 50V K	4	C037		N
3	3	C226	BC9M CAPACITOR: MYLAR	3	C105	0.01UF 50V K	3	C224		N
3	4	C089	BC9M CAPACITOR: MYLAR	4	C163	0.1UF 50V K	4	C169		N
3	1	C041	BC9M CAPACITOR: MYLAR	1	C080	0.0015UF 50V K	1			N
3	1	C238	BC9M CAPACITOR: MYLAR	1	C151	0.015UF 50V K	1			N
3	3	C080	BC9M CAPACITOR: MYLAR	3	C039	0.022UF 50V K	3	C167		N
3	3	C151	BC9M CAPACITOR: MYLAR	3	C031	0.0022UF 50V K	3	C153		N
3	3	C013	BC9M CAPACITOR: MYLAR	3	C018	0.015UF 50V K	3	C103		N
3	3	C039	BC9M CAPACITOR: MYLAR	3	C168	0.022UF 50V K	3	C211		N
3	7	C031	BC9M CAPACITOR: MYLAR	7	C215	0.047UF 50V K	7			
3	5	D001	BDAY DIODE	5	D002	1N60 AM	5	D011		T
3	2	D012	BDAY DIODE	2	D026	1N60 P	2	D027		T
3	1	D026	BDAY DIODE: ZENER	1	D059	XZ-051	1			T
3	1	D059	BDAY DIODE: ZENER	1	D063	XZ-072	1			T
3	2	D063	BDAY DIODE	2	D031	1S2339G	2	D032		T
3	2	D031	BDAY DIODE	2	D003	1S2075K	2	D006		T
3	2	D003	BDAY DIODE	2	D007		2	D009		T
3	2	D007	BDAY DIODE	2	D013		2	D015		T
3	2	D013	BDAY DIODE	2	D016		2	D020		T
3	2	D016	BDAY DIODE	2	D021		2	D024		T
3	2	D021	BDAY DIODE	2	D025		2	D029		T
3	2	D025	BDAY DIODE	2	D033		2	D035		T
3	2	D033	BDAY DIODE	2	D036		2	D038		T
3	2	D036	BDAY DIODE	2	D039		2	D042		T
3	2	D039	BDAY DIODE	2	D043		2	D046		T
3	2	D043	BDAY DIODE	2	D047		2	D049		T
3	2	D047	BDAY DIODE	2	D050		2	D052		T
3	2	D050	BDAY DIODE	2	D053		2	D055		T
3	2	D053	BDAY DIODE	2	D056		2	D058		T
3	2	D056	BDAY DIODE	2	D060		2	D065		T
3	2	D060	BDAY DIODE	2	D064		2	D068		T
3	2	D064	BDAY DIODE	2	D067		2	D070		T
3	2	D067	BDAY DIODE	2	D072		2	D074		T
3	2	D072	BDAY DIODE	2	D075		2	D079		T
3	2	D075	BDAY DIODE	2	D078		2	D080		T

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

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3		BLEY	COIL	L044	1			N
		0151001	LE-151 C-7931 D4.0 6 1/2T					
3		BLEY	COIL	L035	2			N
		0162001	LE-162 D6.0 4 1/2T	L036				
3		BLEY	COIL	L038	1			N
		0187001	LE-187 D4.0 7T					
3		BLEY	COIL	L041	1			N
		0215001	LE-215 D3.0 4T					
3		BLZY	INDUCTOR:MOLDED	L016	1			N
		0016101	LZ-016 SL0609-101K 100UH					
3		BLZY	INDUCTOR:MOLDED	L031	2			N
		0016471	LZ-016 SL0609-471K 470UH	L032				
3		BPCY	PC BOARD:MAIN	PC001	1			N
		0999AB2	PC-999AB					
3		BOXY	CRYSTAL	X001	1			N
		0077001	GX-077 10.240					
3		BOXY	CRYSTAL	X004	1			N
		0122002	GX-122 10.6975					
3		BOXY	CRYSTAL	X002	1			N
		0131010	GX-131 15.0025					
3		BOXY	CRYSTAL	X003	1			N
		0131011	GX-131 15.4525					
3		BRPB	RESISTOR:CARBON AXIAL LEAD	R251	1			N
		1210342	10K 1/2W J					
3		BRPB	RESISTOR:CARBON AXIAL LEAD	R257	3			N
		1215142	150 1/2W J	R258				
3		BRPB	RESISTOR:CARBON AXIAL LEAD	R033	3			N
		1810147	100 1/8W J	R192				
3		BRPB	RESISTOR:CARBON AXIAL LEAD	R062	3			N
		1810242	1K 1/8W J	R075				
3		BRPB	RESISTOR:CARBON AXIAL LEAD	R058	1			N
		1810342	10K 1/8W J	R089				
3		BRPB	RESISTOR:CARBON AXIAL LEAD	R145	1			N
		1810342	10K 1/8W J	R168				
3		BRPB	RESISTOR:CARBON AXIAL LEAD	R198	1			N
		1810942	1 1/8W J	R232				
3		BRPB	RESISTOR:CARBON AXIAL LEAD	P254	2			N
		1810942	1 1/8W J	R255				
3		BRPB	RESISTOR:CARBON AXIAL LEAD	R051	2			N
		1815242	1.5K 1/8W J	R268				
3		BRPB	RESISTOR:CARBON AXIAL LEAD	P276	1			N
		1818342	18K 1/8W J					
3		BRPB	RESISTOR:CARBON AXIAL LEAD	P181	1			N
		1822142	220 1/8W J					
3		BRPB	RESISTOR:CARBON AXIAL LEAD	R046	1			N
		1822442	220K 1/8W J					
3		BRPB	RESISTOR:CARBON AXIAL LEAD	R261	1			N
		1822942	2.2 1/8W J					
3		BRPB	RESISTOR:CARBON AXIAL LEAD	R084	1			N
		1823142	270 1/8W J					
3		BRPB	RESISTOR:CARBON AXIAL LEAD	R055	1			N
		1823442	270K 1/8W J					

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3	4	BRPB RESISTOR:CARBON AXIAL LEAD 1833247 3.3K 1/8W J	R060 R293	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	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	R035 R083	N
3	10	BRPB RESISTOR:CARBON FORMED VERT 1810247 1K 1/8W J	R099 R274	R196 R269	N
3		BRPB RESISTOR:CARBON FORMED VERT 1810347 10K 1/8W J	R037 R074	R066 R103	N
3		BRPB RESISTOR:CARBON FORMED VERT 1810447 100K 1/8W J	R107 R147	R131 R170	N
3		BRPB RESISTOR:CARBON FORMED VERT 1810547 1M 1/8W J	R173 R184	R176 R200	N
3	24	BRPB RESISTOR:CARBON FORMED VERT 1810647 10K 1/8W J	R229 R243	R242 R296	N
3		BRPB RESISTOR:CARBON FORMED VERT 1810747 100K 1/8W J	R001 R039	P015 P068	N
3		BRPB RESISTOR:CARBON FORMED VERT 1810847 100K 1/8W J	R069 P128	R126 R165	N
3		BRPB RESISTOR:CARBON FORMED VERT 1810947 100K 1/8W J	P167 P172	R171 R177	N
3		BRPB RESISTOR:CARBON FORMED VERT 1811047 100K 1/8W J	R179 R207	P203 P224	N
3		BRPB RESISTOR:CARBON FORMED VERT 1811147 100K 1/8W J	R235	R284	N
3	24	BRPB RESISTOR:CARBON FORMED VERT 1811247 100K 1/8W J	P011 P043	P041 P053	N
3		BRPB RESISTOR:CARBON FORMED VERT 1811347 100K 1/8W J	P112 P144	R157 P204	N
3		BRPB RESISTOR:CARBON FORMED VERT 1811447 100K 1/8W J	R209		N
3	13	BRPB RESISTOR:CARBON FORMED VERT 1811547 100K 1/8W J	R047	R115	N

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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 R102 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	3		N
3		BRUB 182224Z 2.2K 1/8W J	RESISTOR: CARBON FORMED VERT	R125 R143 R178 R180 R288	11		N
3		BRUB 182234Z 22K 1/8W J	RESISTOR: CARBON FORMED VERT	R094 R111 R129 R149 R151 R225	6		N
3		BRUB 182244Z 220K 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 R017 R264 R267	2		N
3		BRUB 183314Z 330 1/8W J	RESISTOR: CARBON FORMED VERT	R018 R025 R056 R057 R064 R108 R139 R195 R222 R286	5		N
3		BRUB 183324Z 3.3K 1/8W J	RESISTOR: CARBON FORMED VERT	R002 R141 R142	7		N
3		BRUB 183334Z 33K 1/8W J	RESISTOR: CARBON FORMED VERT	FC55 R138 R153	7		N

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

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CUSTOMER MODEL

MFR'S MODEL CODE
 UT543AN

LEVEL	QTY	DESCRIPTION	REF. NO.	QTY	SET	DELIVERY	REMARKS
3	BRUB	RESISTOR: CARBON FORMED VERT	R227	3			
	1847047	47 1/8W J	R253	R256			N
3	BRUB	RESISTOR: CARBON FORMED VERT	R023	R067			
	1847147	470 1/8W J	R237	R272			N
3	BRUB	RESISTOR: CARBON FORMED VERT	R087	R154			
	1847247	4.7K 1/8W J	R161	R162			N
			R163	R211			
			R215	R219			
			R236				
3	BRUB	RESISTOR: CARBON FORMED VERT	R006	R059			
	1847347	47K 1/8W J	R101	R231			N
3	BRUB	RESISTOR: CARBON FORMED VERT	R014	R205			
	1847447	470K 1/8W J	R135	R228			N
3	BRUB	RESISTOR: CARBON FORMED VERT	R273	R282			
	1856047	56 1/8W J	R088	R095			N
3	BRUB	RESISTOR: CARBON FORMED VERT	R117	R199			
	1856147	560 1/8W J	R266				N
3	BRUB	RESISTOR: CARBON FORMED VERT	R003	R096			
	1856247	5.6K 1/8W J	R013	R034			N
3	BRUB	RESISTOR: CARBON FORMED VERT	R072	R086			
	1856447	500K 1/8W J	R144	R295			N
3	BRUB	RESISTOR: CARBON FORMED VERT	R022	R085			
	1858047	68 1/8W J	R116				N
3	BRUB	RESISTOR: CARBON FORMED VERT	R241				
	1868147	680 1/8W J	R093	R291			N
3	BRUB	RESISTOR: CARBON FORMED VERT	R044	R032			
	1868247	6.8K 1/8W J	T001				N
3	BTBY	TRANSFORMER: AF CHOKE	TP008	TP009			
	0023001	TF-083	JP012	JP014			T
3	BTBY	TERMINAL: CHECK POINT	JP025	JP024			
	0044301	TP-J44	JF037	JF043			N
3	BTBY	JUMPER WIRE	JP045	JF049			
	0052001	YY-052 5.0MM	JF017	JP020			N
3	BTBY	JUMPER WIRE	JP028	JP029			
	0052102	YY-052 7.5MM	JF027	JF025			N

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B UL - F SAA - J VDE
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CUSTOMER MODEL

MFR'S MODEL CODE
UT543AN

QTY	UNIT	DESCRIPTION	REV	UNIT	REV	QTY	UNIT	REV	QTY	UNIT	REV
3	BYYY	JUMPER WIRE		JP038		11	JP052				
	0052003	YY-052 10.0MM		JP054			JP057				
				JP002			JP009				
				JP031			JP036				
				JP050			JP051				
3	EYYY	JUMPER WIRE		JP007			JP018				
	0052004	YY-052 12.5MM		JP040			JP046				
				JP006			JP019				
				JP035			JP041				
3	BYYY	JUMPER WIRE		JP005			JP032				
	0052006	YY-052 17.5MM		JP004			JP022				
				JP008			JP003				
3	BYYY	JUMPER WIRE		JP010			JP015				
	0052007	YY-052 20.0MM		JP013			JP015				
				TR048							
3	BYYY	JUMPER WIRE		TR034							
	0052008	YY-052 22.5MM		TR035			TR037				
				TR030			TR031				
3	BYYY	JUMPER WIRE		TR033			TR036				
	0052009	YY-052 25.0MM		TR040			TR049				
				TR052			TR051				
3	BYYY	JUMPER WIRE									
	0052010	YY-052 27.5MM									
3	BYYY	JUMPER WIRE									
	0052012	YY-052 2.5MM									
3	B0BA	TRANSISTOR									
	0473114	DB-028 2SA473-0									
3	B0BA	TRANSISTOR									
	0733115	DB-003 2SA733-P									
3	B0BB	TRANSISTOR									
	0525103	DB-106 2SB525-C									
3	B0BC	TRANSISTOR									
	0945507	DB-224 2SC945A-0									
3	B0RC	TRANSISTOR									
	1675111	DB-259 2SC1675-L									
3	B0PC	TRANSISTOR									
	1730111	DR-249 2SC1730-L									
3	B0PD	TRANSISTOR									
	1973115	DB-272 2SC1973-SSP									
3	B0RD	TRANSISTOR									
	0471111	DB-411 2SD471-L									
3	BRTY	RESISTOR:SEMI-FIXED									
	012101	RT-182 TT24R 100R									
3	BRTY	RESISTOR:SEMI-FIXED									
	0132102	RT-182 TT24R 10R									
3	BRTY	RESISTOR:SEMI-FIXED									
	0132103	RT-182 TT24R 100R									
3	BRTY	RESISTOR:SEMI-FIXED									
	012104	RT-182 TT24R 1000R									
3	BRTY	RESISTOR:SEMI-FIXED									
	0125502	RT-182 TT24R 50R									

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 B IUL F SAA J VDE
 C CSA-C G BS -C
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CUSTOMER MODEL

MFR'S MODEL CODE
 UT543AN

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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A UL -C E SAA-C I VDE-C
 B UL F SAA J VDE
 C CSA-C G BS -C
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MFR'S MODEL CODE
 UT543AN

LEVEL	QTY	PART CODE	DESCRIPTION	REF. NO.	QTY	SET	DELIVERY	REMARKS
3	N	BPBY	PC BOARD:SW					
		0005AA7	PB-005AA	PC006	1			N
3	N	BPBY	PC BOARD:CHECK POINT					
		0100AAZ	PB-100AA	PC005	1			N
3	N	BPCY	PC BOARD:MIC JACK					
		0266AAZ	PC-266AA	PC004	1			N
3	N	BPCY	PC BOARD:CH SW					
		0783ABZ	PC-783AB	PC002	1			N
3	N	BPCY	PC BOARD:LED					
		0960AAZ	PC-960AA	PC003	1			N
3	N	BRUB	RESISTOR:CARBON FORMED VERT					
		181014Z	100 1/8W J	R421	1			N
3	N	BRUB	RESISTOR:CARBON FORMED VERT					
		181524Z	1.5K 1/8W J	R424	1			N
3	N	BRUB	RESISTOR:CARBON FORMED VERT					
		182224Z	2.2K 1/8W J	R417	2			N
3	N	BRUB	RESISTOR:CARBON FORMED VERT					
		183314Z	330 1/8W J	R401	2			N
3	N	BRUB	RESISTOR:CARBON FORMED VERT					
		184704Z	47 1/8W J	R423	1			N
3	N	BRUB	RESISTOR:CARBON FORMED VERT					
		185624Z	5.6K 1/8W J	R414	1			N
3	N	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	N	BRUB	RESISTOR:CARBON FORMED VERT					
		126824Z	6.8K 1/8W J	R415	1			N
3	N	BRVY	RESISTOR:VARIABLE					
		0222001	RV-222 20KB	VP503	1			T
3	N	BRVY	RESISTOR:VARIABLE					
		0320001	RV-320 50KA	VP501	1			T
3	N	BRVY	RESISTOR:VARIABLE					
		0447001	RV-447 50KB	VP502	1			T
3	N	BRVY	RESISTOR:VARIABLE					
		0485001	RV-485 1KB, 1KA	VP504	1			T
3	N	BSPY	SPEAKER					
		0053001	SP-053	SP501	1			N
3	N	BSRY	SWITCH:ROTARY					
		0187001	SR-187 SRM1034M	S509	1			T
3	N	BSRY	SWITCH:ROTARY					
		0205001	SR-205 SRM1047M	S502	1			T
3	N	BSRY	SWITCH:ROTARY					
		0208001	SR-208 USW-0197	S401	1			T
3	N	BSWY	SWITCH:PUSH					
		0317001	SW-117 4F-00C1DFE120V1	S404	1			N
3	N	BWYF	FLAT CARLE					
		0230502	WF-023 6S-50-3.5	FCC01	1			J
3	N	BYRY	INSULATION SHEET					
		0005004	YD-005 ACC	YY003	1			T

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 B IUL F SAA J VDE
 C CSA-C G BS -C
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CUSTOMER MODEL

MFR S MODEL CODE
 UT543AN

LEVEL	QTY	PART CODE	DESCRIPTION	REF. NO.	CITY	DEIVERY	REMARKS
3	1	BYDY 0047001	INSULATION SHEET YD-047 S-32	YY002			T
3	1	BYDY 0050001	INSULATION SHEET YD-050 AC238	YY004			T
3	3	BYDY 0027001	INSULATION SHEET YY-027 JUMPER WIRE	YY005 YY006 YY007			J
3	2	BYDY 0052003	YY-052 10.0MM BUSHING:TIGHT CERAMIC	JP401 JP402			N
3	3	BYDY 0172001	YY-172 WIRES ASSEMBLED	YY008 YY009 YY010			J
3	1	CZDZ 070234Z	W-070234 1500 W/P	WP001			N
2	1	AT54 3AMBW	UT-543A(N) WIRE	90-00000			
3	1	CUAA 007022Z	UL 1007 #24 5-70-5 BRN	W027			N
3	1	CUAA 008021Z	UL 1007 #24 5-80-3 BRN	W023			N
3	1	CUAA 010022Z	UL 1007 #24 5-100-5 BRN	W035			N
3	1	CUAA 010044Z	UL 1007 #24 10-100-10 BRN	W101			N
3	1	CUAB 004011Z	UL 1007 #24 3-40-3 RED	W055			N
3	1	CUAB 006011Z	UL 1007 #24 3-60-3 RED	W010			N
3	1	CUAB 006021Z	UL 1007 #24 5-60-3 RED	W048			N
3	1	CUAB 006022Z	UL 1007 #24 5-60-5 RED	W028			N
3	1	CUAB 008011Z	UL 1007 #24 3-80-3 RED	W005			N
3	1	CUAB 008021Z	UL 1007 #24 5-80-3 RED	W040			N
3	1	CUAB 010022Z	UL 1007 #24 5-100-5 RED	W012			N
3	1	CUAC 012042Z	UL 1007 #24 10-120-5 RED	W034			N
3	1	CUAC 006011Z	UL 1007 #24 3-60-3 ORG	W009			N
3	1	CUAC 008011Z	UL 1007 #24 3-80-3 ORG	W004			N
3	1	CUAC 008021Z	UL 1007 #24 5-80-3 ORG	W019			N
3	1	CUAC 012021Z	UL 1007 #24 5-120-3 ORG	W015			N
3	1	CUAC 012022Z	UL 1007 #24 5-120-5 ORG	W024			N
3	1	CUAC 006022Z	UL 1007 #24 5-60-5 YEL	W026			N

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

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CUSTOMER MODEL

MFG S. MODEL CODE
 UT543AN

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		CUAF 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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CUSTOMER MODEL

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 B UL -F SAA -J VDE
 C CSA-C G BS -C
 D CSA -H BS
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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(H) (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(H) (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	VINYTOP, 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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A UL -C E SAA-C I VDE-C
 B UL -F SAA -J VDE
 C CSA-C GBS -C
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MFR S INCKEL CODE
 UT547AN

LEVEL	QTY	DESCRIPTION	REF NO.	QTY	SE	REMARKS
3	N	HDDW HOLDER:SWICH		1		N
		411488Z SPCC,1.0T,ZMC				
3	N	HHSK HEAT SINK		1		N
		411489Z ALP,2.0T,NON OIL				
3	N	HMHG HANGER:MICROPHONE		1		N
		402919Z SPCC,1.0T,NI				
3	N	HSDP SHIELD PLATE		1		N
		402163Z SPT,0.3T,NONOIL				
3	N	HTML METAL STRIP:EARTH		1		N
		405562Z PLATING METAL,0.8T				
3	N	KDPT PLATE:CONTROL		1		N
		411493Z PVC,1.0T,SILK				
3	N	LHDL HOLDER:LED		2		N
		405995Z EPT,BLACK				
3	N	LWSR WASHER:RUBBER		4		N
		400638Z NEOPRENE,BLACK,7*15*2.0T				
3	N	PLRC LABEL:WARNING,DC CORD		1		N
		419000Z PAPER,PRINT				
3	N	PLBS LABEL:SERIAL NO.		3		N
		401500Z PAPER,PRINT				
3	N	QHSK HEAT SINK		1		N
		411490Z A2014S-T4,BLACK,ALUMITE				
3	N	RCUN CUSHION:METER		1		N
		404326A NEOPRENE SP,2.0T,BLACK				
3	N	RETC PROTECTION COVER:FRONT PANEL		1		N
		304029B PAPER NO.7				
3	N	RETC SPACER		1		N
		416094Z **				
3	N	RFLT WASHER:FELT		2		N
		402225Z D4*3I,WHITE				
3	N	RUTC WOOL-COATED PAPER:WOOL TACK		2		N
		403865Z WOOL PAPER,10*150*0.3T				
3	N	RZER INSULATION PLATE		1		N
		410274Z PVC,0.5T				
3	N	SSCW SCREW:PAN HD +		1		N
		123006S M3X6 PLASTIC				
3	N	SSCW SCREW:FLAT HD +		4		J
		133008N M3X8 NI				
3	N	SSCW SCREW:RIND HD +		1		N
		192012Z M2X12 NI				
3	N	SSCW SCREW:RIND HD +		2		N
		192012H M2X12 NI				
3	N	SSCW SCREW:RIND PE +		1		N
		193006N M3X6 NI				
3	N	SSCW SCREW:RIND HD +		2		N
		193006Y M3X6 NI				
3	N	SSCW SCREW:RIND HD +		3		N
		193006W M3X6 NI				
3	N	SSCW SCREW:RIND HD +		4		N
		193006Z M3X6 NI				

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

DATE 86.12.10
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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: TAPPING ROUND HD + 295010N D5X10 NI			ACC BRACKET
3	1			SSCW SCREW: TIGHT 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 (PARC-LOK) 0243020 M3 Z1			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

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-C- CERTIFICATION CARD

BILL OF MATERIAL

MFR'S MODEL CODE
 UT547AN

CUSTOMER MODEL
 []

REVISION NOTE NO
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QTY	DESCRIPTION	UNIT	QTY	DESCRIPTION	UNIT
0020004	DIODE: ZENER XZ-051	BDAY	0059	BDAY-0269001	DIODE: ZENER HZ5B-3
0020004	DIODE: ZENER XZ-051	BDAY	0059	BDAY-0269002	DIODE: ZENER HZ5C-1
0020012	DIODE: ZENER XZ-072	BDAY	0063	BDAY-0086009	DIODE: ZENER RD7-5EB2
0020012	DIODE: ZENER XZ-072	BDAY	0063	BDAY-0269013	DIODE: ZENER HZ-7B3
0063001	DIODE 1S2075K	BDAY	0003	BDAY-0137001	DIODE 1N4148
0063001	DIODE 1S2075K	BDAY	0003	BDAY-0181001	DIODE 1S1555
0063001	DIODE 1S2075K	BDAY	0005	BDAY-0137001	DIODE 1N4148
0063001	DIODE 1S2075K	BDAY	0005	BDAY-0181001	DIODE 1S1555
0063001	DIODE 1S2075K	BDAY	0006	BDAY-0137001	DIODE 1N4148
0063001	DIODE 1S2075K	BDAY	0006	BDAY-0181001	DIODE 1S1555
0063001	DIODE 1S2075K	BDAY	0007	BDAY-0137001	DIODE 1N4148
0063001	DIODE 1S2075K	BDAY	0007	BDAY-0181001	DIODE 1S1555
0063001	DIODE 1S2075K	BDAY	0008	BDAY-0137001	DIODE 1N4148
0063001	DIODE 1S2075K	BDAY	0008	BDAY-0181001	DIODE 1S1555
0063001	DIODE 1S2075K	BDAY	0009	BDAY-0137001	DIODE 1N4148
0063001	DIODE 1S2075K	BDAY	0009	BDAY-0181001	DIODE 1S1555
0063001	DIODE 1S2075K	BDAY	0013	BDAY-0137001	DIODE 1N4148
0063001	DIODE 1S2075K	BDAY	0013	BDAY-0181001	DIODE 1S1555
0063001	DIODE 1S2075K	BDAY	0014	BDAY-0137001	DIODE 1N4148
0063001	DIODE 1S2075K	BDAY	0014	BDAY-0181001	DIODE 1S1555
0063001	DIODE 1S2075K	BDAY	0015	BDAY-0137001	DIODE 1N4148
0063001	DIODE 1S2075K	BDAY	0015	BDAY-0181001	DIODE 1S1555
0063001	DIODE 1S2075K	BDAY	0016	BDAY-0137001	DIODE 1N4148
0063001	DIODE 1S2075K	BDAY	0016	BDAY-0181001	DIODE 1S1555
0063001	DIODE 1S2075K	BDAY	0019	BDAY-0137001	DIODE 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 B3 -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 DIODE		DIODE
			0063001 1S2075K	0019	1S1555
			BDAY DIODE		DIODE
			0063001 1S2075K	0020	1N4148
			BDAY DIODE		DIODE
			0063001 1S2075K	0020	1S1555
			BDAY DIODE		DIODE
			0063001 1S2075K	0021	1N4148
			BDAY DIODE		DIODE
			0063001 1S2075K	0021	1S1555
			BDAY DIODE		DIODE
			0063001 1S2075K	0022	1N4148
			BDAY DIODE		DIODE
			0063001 1S2075K	0022	1S1555
			BDAY DIODE		DIODE
			0063001 1S2075K	0024	1N4148
			BDAY DIODE		DIODE
			0063001 1S2075K	0024	1S1555
			BDAY DIODE		DIODE
			0063001 1S2075K	0025	1N4148
			BDAY DIODE		DIODE
			0063001 1S2075K	0025	1S1555
			BDAY DIODE		DIODE
			0063001 1S2075K	0028	1N4148
			BDAY DIODE		DIODE
			0063001 1S2075K	0028	1S1555
			BDAY DIODE		DIODE
			0063001 1S2075K	0029	1N4148
			BDAY DIODE		DIODE
			0063001 1S2075K	0029	1S1555
			BDAY DIODE		DIODE
			0063001 1S2075K	0033	1N4148
			BDAY DIODE		DIODE
			0063001 1S2075K	0033	1S1555
			BDAY DIODE		DIODE
			0063001 1S2075K	0034	1N4148
			BDAY DIODE		DIODE
			0063001 1S2075K	0034	1S1555
			BDAY DIODE		DIODE
			0063001 1S2075K	0035	1N4148
			BDAY DIODE		DIODE
			0063001 1S2075K	0035	1S1555
			BDAY DIODE		DIODE
			0063001 1S2075K	0036	1N4148
			BDAY DIODE		DIODE
			0063001 1S2075K	0036	1S1555
			BDAY DIODE		DIODE
			0063001 1S2075K	0037	1N4148
			BDAY DIODE		DIODE
			0063001 1S2075K	0037	1S1555
			BDAY DIODE		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	HTS NO	CITY	SET	DIODE
	B001	DIODE							DIODE
	0063001	1S2075K	0052	BDAY-0181001					1S1555
	B002	DIODE							DIODE
	0063001	1S2075K	0053	BDAY-0137001					1N4148
	B003	DIODE							DIODE
	0063001	1S2075K	0053	BDAY-0181001					1S1555
	B004	DIODE							DIODE
	0063001	1S2075K	0054	BDAY-0137001					1N4148
	B005	DIODE							DIODE
	0063001	1S2075K	0054	BDAY-0181001					1S1555
	B006	DIODE							DIODE
	0063001	1S2075K	0055	BDAY-0137001					1N4148
	B007	DIODE							DIODE
	0063001	1S2075K	0055	BDAY-0181001					1S1555
	B008	DIODE							DIODE
	0063001	1S2075K	0056	BDAY-0137001					1N4148
	B009	DIODE							DIODE
	0063001	1S2075K	0056	BDAY-0181001					1S1555
	B010	DIODE							DIODE
	0063001	1S2075K	0057	BDAY-0137001					1N4148
	B011	DIODE							DIODE
	0063001	1S2075K	0057	BDAY-0181001					1S1555
	B012	DIODE							DIODE
	0063001	1S2075K	0058	BDAY-0137001					1N4148
	B013	DIODE							DIODE
	0063001	1S2075K	0058	BDAY-0181001					1S1555
	B014	DIODE							DIODE
	0063001	1S2075K	0060	BDAY-0137001					1N4148
	B015	DIODE							DIODE
	0063001	1S2075K	0060	BDAY-0181001					1S1555
	B016	DIODE							DIODE
	0063001	1S2075K	0064	BDAY-0137001					1N4148
	B017	DIODE							DIODE
	0063001	1S2075K	0064	BDAY-0181001					1S1555
	B018	DIODE							DIODE
	0063001	1S2075K	0065	BDAY-0137001					1N4148
	B019	DIODE							DIODE
	0063001	1S2075K	0065	BDAY-0181001					1S1555
	B020	DIODE							DIODE
	0063001	1S2075K	0066	BDAY-0137001					1N4148
	B021	DIODE							DIODE
	0063001	1S2075K	0066	BDAY-0181001					1S1555
	B022	DIODE							DIODE
	0063001	1S2075K	0067	BDAY-0137001					1N4148
	B023	DIODE							DIODE
	0063001	1S2075K	0067	BDAY-0181001					1S1555
	B024	DIODE							DIODE
	0063001	1S2075K	0068	BDAY-0137001					1N4148
	B025	DIODE							DIODE
	0063001	1S2075K	0068	BDAY-0181001					1S1555

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BILL OF MATERIAL

MFR'S MODEL CODE
 UT543AN
 CUSTOMER MODEL
 REVISION NOTE NO.

QTY	UOM	PART CODE	DESCRIPTION	QTY	UOM	PART CODE	DESCRIPTION
		BDEY	INTEGRATED CIRCUIT			IC009	BDEY-0287001
		0250001	MC1408BCP			IC001	BDEY-0284001
		BDEY	INTEGRATED CIRCUIT			FL003	9FLY-0090001
		0312001	NJM2902N			L037	9LCY-0018001
		BFLY	FILTER: CRYSTAL			TR034	9DBA-0733506
		0096001	FL-096 MF10J02			TR035	9DBB-0525104
		BLCY	COIL			TRC35	9DBB-0525105
		0124001	LC-184 2.5T.D0.6UEW			TR037	9DBB-0525104
		BDBA	TRANSISTOR			TRC37	9DBB-0525105
		0733115	DB-003 2SA733-P			TP045	9DBZ-0520001
		BDBB	TRANSISTOR			TR045	9DBZ-0521001
		0525103	DB-106 2SB525-C			TR047	9DBB-0754124
		BDBB	TRANSISTOR			TP041	9DBC-2312102
		0525103	DB-106 2SB525-C			TP041	9DBC-2312104
		BDBB	TRANSISTOR			TP042	9DBC-2312102
		0525103	DB-106 2SB525-C			TR042	9DBC-2312104
		BDBB	TRANSISTOR			J503	9JKY-0770002
		0525103	DB-106 2SB525-C			VR503	9RVY-0135001
		BDBC	TRANSISTOR			S509	9BSRY-0235001
		1730111	DB-269 2SC1730-L			S502	9BSRY-0237001
		BDBC	TRANSISTOR			FC001	9WFY-0610509
		1730111	DB-269 2SC1730-L				
		BDBB	TRANSISTOR				
		N 0754114	DB-110 2SB754-0				
		BDBC	TRANSISTOR				
		N 2312103	DB-332 2SC2312-C				
		BDBC	TRANSISTOR				
		N 2312103	DB-332 2SC2312-C				
		BDBC	TRANSISTOR				
		N 2312103	DB-332 2SC2312-C				
		BDBC	TRANSISTOR				
		N 2312103	DB-332 2SC2312-C				
		BDBC	TRANSISTOR				
		BJKY	JACK W/O LUG				
		0068002	JK-068 N-7512				
		BRVY	RESISTOR: VARIABLE				
		0222001	RV-222 20KB				
		ESRY	SWITCH: ROTARY				
		0187001	SR-187 SFN1074N				
		BSRY	SWITCH: ROTARY				
		0205001	SR-205 SRN1043N				
		WFY	FLAT CABLE				
		0235002	WF-023 6S-50-3.5				

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