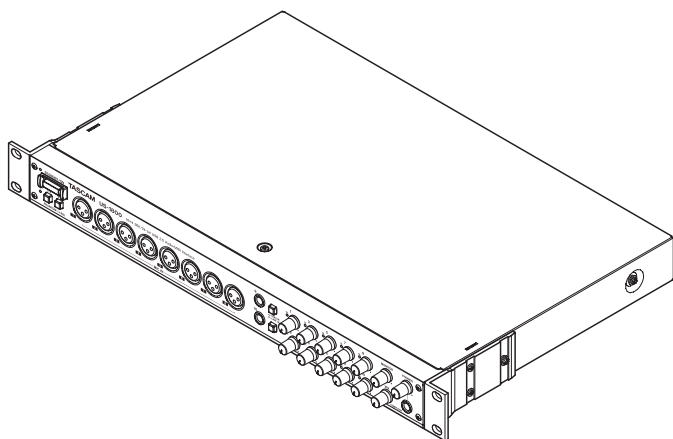




TASCAM[®]
TEAC PROFESSIONAL

SERVICE MANUAL

US-1800

USB2.0 Audio/MIDI Interface

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1. Specifications

仕様

Analog audio input/output ratings

MIC inputs (Balanced) terminals (MIC IN 1-8)

Connector:	XLR-3-31 (1: GND, 2: HOT, 3: COLD)
Input impedance:	2.2 k Ω
Nominal input level:	-2 dBu (0.615 Vrms)
Minimum input level:	-58 dBu (0.00098 Vrms)
Maximum input level:	+14 dBu (3.882 Vrms)

Guitar inputs (Unbalanced) terminals (GUITAR 9-10)

Connector:	6.3 mm (1/4") TS Standard phone jack (Tip: HOT, Sleeve: GND)
Input impedance:	700 k Ω
Nominal input level:	-6 dBV (0.501 Vrms)
Minimum input level:	-52 dBV (0.0025 Vrms)
Maximum input level:	+10 dBV (3.162 Vrms)

Line input (Balanced) terminals (LINE IN 9-10)

Connector:	6.3 mm (1/4") TRS Standard phone jack (Tip: HOT, Ring: COLD, Sleeve: GND)
Input impedance:	10 k Ω
Nominal input level:	+4 dBu (1.228 Vrms)
Minimum input level:	-42 dBu (0.0062 Vrms)
Maximum input level:	+20 dBu (7.746 Vrms)

Line input (Balanced) terminals (LINE IN 11-14)

Connector:	6.3 mm (1/4") TRS Standard phone jack (Tip: HOT, Ring: COLD, Sleeve: GND)
Input impedance:	10 k Ω
Nominal input level:	-10 dBV (0.3162 Vrms)/+4 dBu (1.228 Vrms)
Maximum input level:	+6 dBV (1.995 Vrms)/+20 dBu (7.746 Vrms)

Line output (Balanced) terminals (LINE OUT 1-4)

Connector:	6.3 mm (1/4") TRS Standard phone jack (Tip: HOT, Ring: COLD, Sleeve: GND)
Output impedance:	100 Ω
Nominal output level:	+4 dBu (1.228 Vrms)
Maximum output level:	+24 dBu (12.277 Vrms)

Monitor output (Balanced) terminals (MONITOR L/R)

Connector:	6.3 mm (1/4") TRS Standard phone jack (Tip: HOT, Ring: COLD, Sleeve: GND)
Output impedance:	100 Ω
Nominal output level:	+4 dBu (1.228 Vrms)
Maximum output level:	+24 dBu (12.277 Vrms)

定格

サンプリング周波数	44.1/48/88.2/96kHz
量子化ビット数	16/24ビット

アナログ入出力定格

マイク入力 (MIC IN 1-8) バランス

コネクター:	XLR-3-31 (1: GND, 2: HOT, 3: COLD)
入力インピーダンス:	2.2k Ω
規定入力レベル:	-2dBu (0.615Vrms)
最小入力レベル:	-58dBu (0.00098Vrms)
最大入力レベル:	+14dBu (3.882Vrms)

ギター入力 (GUITAR 9-10) アンバランス

コネクター:	6.3mm (1/4") TS標準ジャック (Tip: HOT, Sleeve: GND)
入力インピーダンス:	700k Ω
規定入力レベル:	-6dBV (0.501Vrms)
最小入力レベル:	-52dBV (0.0025Vrms)
最大入力レベル:	+10dBV (3.162Vrms)

ライン入力 (LINE IN 9-10) バランス

コネクター:	6.3mm (1/4") TRS標準ジャック (Tip: HOT, Ring: COLD, Sleeve: GND)
入力インピーダンス:	10 k Ω
規定入力レベル:	+4dBu (1.228Vrms)
最小入力レベル:	-42dBu (0.0062Vrms)
最大入力レベル:	+20dBu (7.746Vrms)

ライン入力 (INPUTS 11-14) バランス

コネクター:	6.3mm (1/4") TRS標準ジャック (Tip: HOT, Ring: COLD, Sleeve: GND)
入力インピーダンス:	10 k Ω
規定入力レベル:	-10dBV (0.3162Vrms) / +4dBu (1.228Vrms)
最大入力レベル:	+6dBV (1.995Vrms) / +20dBu (7.746Vrms)

ライン出力 (LINE OUT 1-4) バランス

コネクター:	6.3mm (1/4") TRS標準ジャック (Tip: HOT, Ring: COLD, Sleeve: GND)
出力インピーダンス:	100 Ω
規定出力レベル:	+4dBu (1.228Vrms)
最大出力レベル:	+24dBu (12.277Vrms)

モニター出力 (MONITOR L/R) バランス

コネクター:	6.3mm (1/4") TRS標準ジャック (Tip: HOT, Ring: COLD, Sleeve: GND)
出力インピーダンス:	100 Ω
規定出力レベル:	+4dBu (1.228Vrms)
最大出力レベル:	+24dBu (12.277Vrms)

Headphone output jack (PHONES)

Connector:	6.3 mm (1/4") Standard Stereo phone jack
Maximum output:	50 mW + 50 mW (1 kHz, 1%, 32Ω load)

Digital audio input/output ratings**Coaxial (DIGITAL IN) terminal**

Connector:	RCA pin jack
Compatible signal format:	IEC60958-3 (S/PDIF)
Input impedance:	75Ω
Level:	0.5 Vp-p/75Ω

Coaxial (DIGITAL OUT) terminal

Connector:	RCA pin jack
Compatible signal format:	Selectable in the Control Panel between IEC60958 Consumer (S/PDIF) and IEC958 Professional (AES/EBU)
Output impedance:	75Ω
Level:	0.5 Vp-p/75Ω

Control input/output**MIDI input (MIDI IN) jack**

Connector:	DIN 5 pin
Format:	Standard MIDI format

MIDI output (MIDI OUT) jack

Connector:	DIN 5 pin
Format:	Standard MIDI format

USB terminal

Connector:	USB B type 4 pin
Format:	USB 2.0 High speed (480 MHz)

Audio performance**Frequency response**

20 Hz - 20 kHz,	+1/-1 dB (44.1/48 kHz)
20 Hz - 40 kHz,	+1/-3 dB (88.2/96 kHz) (MIC IN-LINE OUT, GAIN knob set to minimum, JEITA)

Signal-to-noise ratio	96 dB or more (MIC IN-LINE OUT, GAIN knob set to minimum, 44.1 kHz, JEITA)
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Total harmonic distortion

Less than 0.01%
(MIC IN-LINE OUT, GAIN knob set to minimum, JEITA)

ヘッドホン出力 (PHONES)

コネクター:	6.3mm (1/4") ステレオ標準ジャック
最大出力:	50mW + 50mW (1kHz、1%、32Ω負荷)

デジタル入出力定格**COAXIAL (DIGITAL IN)**

コネクター:	RCAピンジャック
フォーマット:	IEC 60958-3 (S/PDIF)
入力インピーダンス:	75Ω
レベル:	0.5Vp-p/75Ω

COAXIAL (DIGITAL OUT)

コネクター:	RCAピンジャック
フォーマット:	IEC 60958コンシューマユース (S/PDIF) または、IEC60958 プロユース (AES/EBU)、コントロールパネルで切り換え
出力インピーダンス:	75Ω
レベル:	0.5Vp-p/75Ω

コントロール入出力定格**MIDI入力 (MIDI IN)**

コネクター:	DIN 5ピン
フォーマット:	標準MIDIフォーマット

MIDI出力 (MIDI OUT)

コネクター:	DIN 5ピン
フォーマット:	標準MIDIフォーマット

USB (USB)

コネクター:	USB Bタイプ4ピン
フォーマット:	USB 2.0 HIGH SPEED (480MHz)

オーディオ特性**周波数特性**

20Hz-20kHz	+1/-1 dB (44.1/48kHz)
20Hz-40kHz	+1/-3dB (88.2/96kHz) (MIC IN-LINE OUT、ゲインつまみmin時、JEITA)

S/N比

96dB以上
(MIC IN-LINE OUT、ゲインつまみmin時、44.1kHz時、JEITA)

総合ひずみ率

0.01%以下 (MIC IN-LINE OUT、ゲインつまみmin時、JEITA)

Computer requirements

Windows

Supported Operating system

Windows XP 32 bit SP2 or later
(Excluding Media Center Edition)
Windows XP 64 bit SP2 or later
Windows Vista 32 bit SP2 or later
Windows Vista 64 bit SP2 or later
Windows 7 32 bit/Windows 7 64 bit

Supported computer system

Windows compatible computer with a USB2.0 port

CPU/clock: Pentium 4 1.4 GHz or faster
AMD Athlon 1.4 GHz or faster
(or equivalent processor)

Memory: 512 MB or more for Windows XP
32-bit and Windows Vista 32-bit
1 GB or more for Windows XP 64-bit, Windows Vista 64-bit and
Windows 7 32-bit
2 GB or more for Windows 7 64-bit

Macintosh

Supported operating system:

Mac OS X v10.5.8 for Intel processor, or Power PC G4
Mac OS X v10.6 or later for Intel processor

Supported computer system:

Apple Macintosh series equipped with a USB port as standard equipment

CPU/clock: Intel processor, or Power PC G4
Memory: 1 GB or more

General

Sampling frequency: 44.1/48/88.2/96 kHz

Quantization bit rate: 16/24 bit

Power: Exclusive AC adaptor (TASCAM PS-1225L, included)
AC input: 100 - 240 V, 1.0 A
DC output: +12 V, 2.0 A

Power consumption: 7.2 W

Dimensions (W x H x D)

Without projections: 482.6 x 44 x 280 mm/
19 x 1.732 x 11.02 in.
With projections: 482.6 x 44 x 300.4 mm/
19 x 1.732 x 11.83 in.

Weight: 3.1 kg/6.834 lb

Operating temperature

5 to 35°C/41 to 95°F

動作条件

Windows

対応OS

Windows XP 32ビットSP2以上
(Media Center Editionは除く)
Windows XP 64ビットSP2以上
Windows Vista 32ビットSP2以上
Windows Vista 64ビットSP2以上
Windows 7 32ビット
Windows 7 64ビット

対応パソコン

USB2.0ポートを装備したWindows対応パソコン

CPU/クロック: Pentium4 1.4GHz以上
AMD Athlon 1.4GHz以上
(または同等のプロセッサ)

メモリー: Windows XP 32ビット/Vista 32ビット : 512MB以上
Windows XP 64ビット/Vista 64ビット/Windows 7 32ビット : 1GB以上
Windows 7 64ビット : 2GB以上

Mac OS X

対応OS

Mac OS X v10.5.8 (Intelプロセッサ、またはPower PC G4)
Mac OS X v10.6以上 (Intelプロセッサ)

対応パソコン

USB2.0端子を標準で装備しているApple Macintoshシリーズ

CPU /クロック Intelプロセッサ、またはPower PC G4
メモリー 1GB以上

一般

電源 専用ACアダプター (TASCAM PS-1225L、付属)
AC入力 : 100-240V、1.0A
DC出力 : +12V、2.0A

消費電力 7.2W

外形寸法 482.6 x 44 x 280mm
(幅 x 高さ x 奥行き、突起含まず)
482.6 x 44 x 300.4mm
(幅 x 高さ x 奥行き、最大寸法)

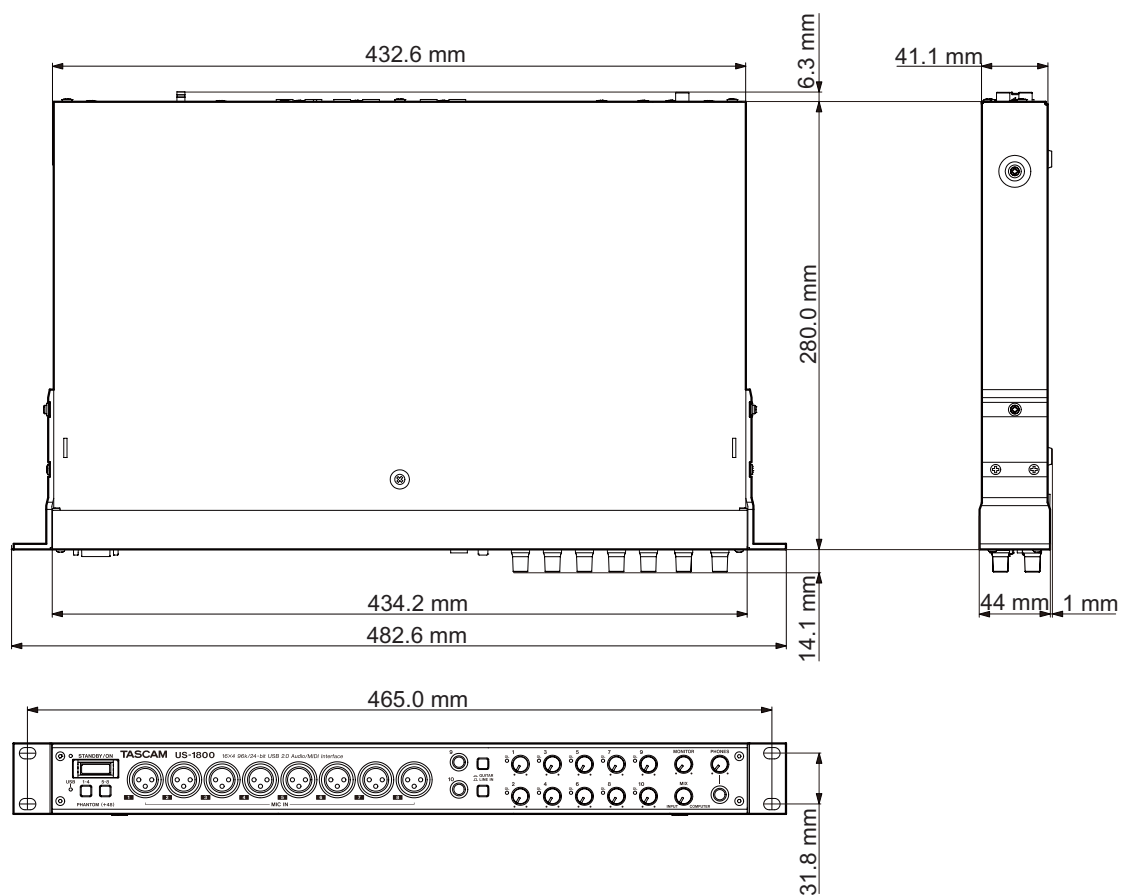
質量 3.1kg

動作温度 5~35℃

バンドルソフトウェア Cubase LE 5
(Windows、Mac OS X用)

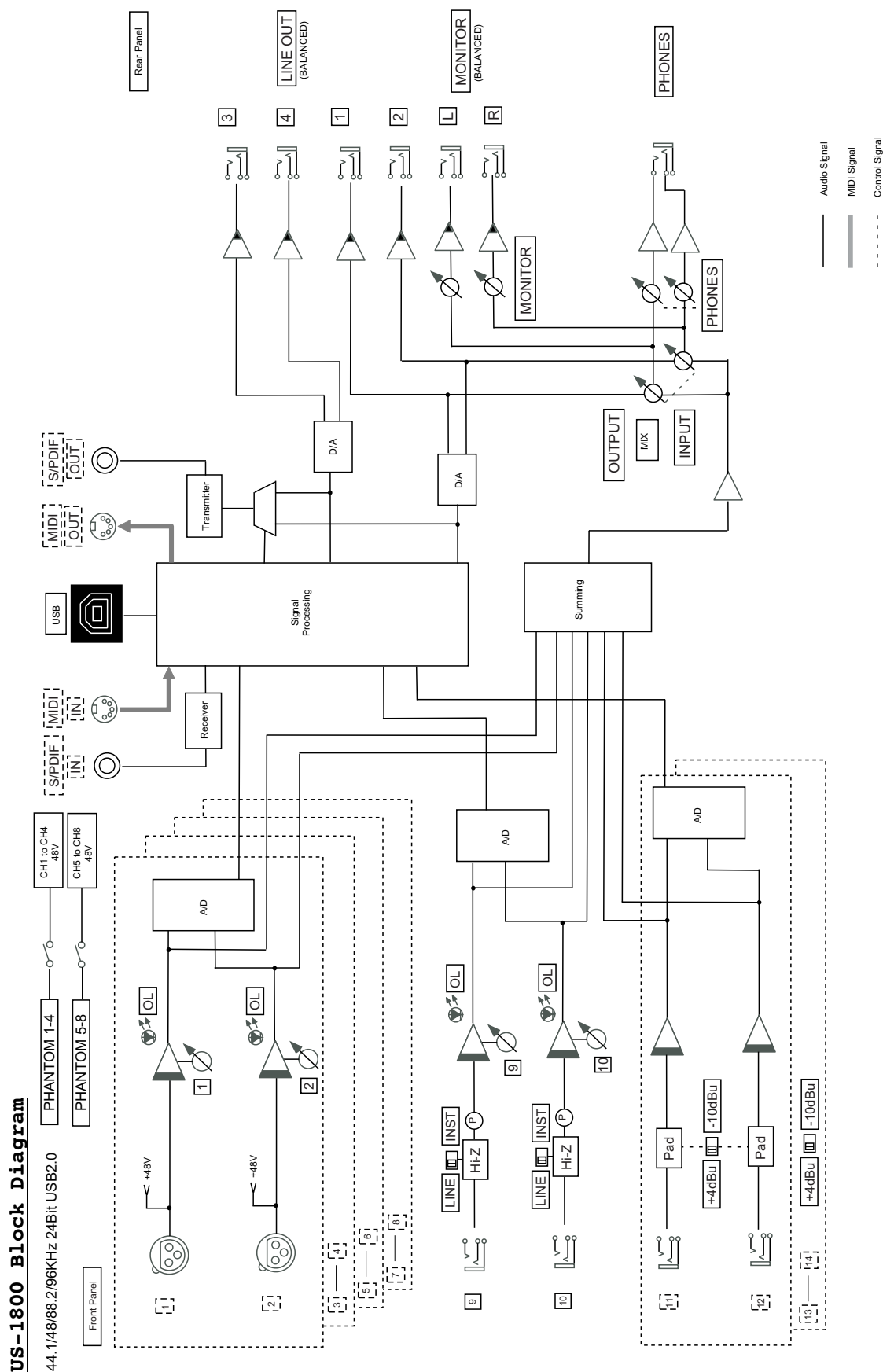
Bundled software Cubase LE 5
(for Windows or Mac OS X)

Dimensional drawings(寸法図)



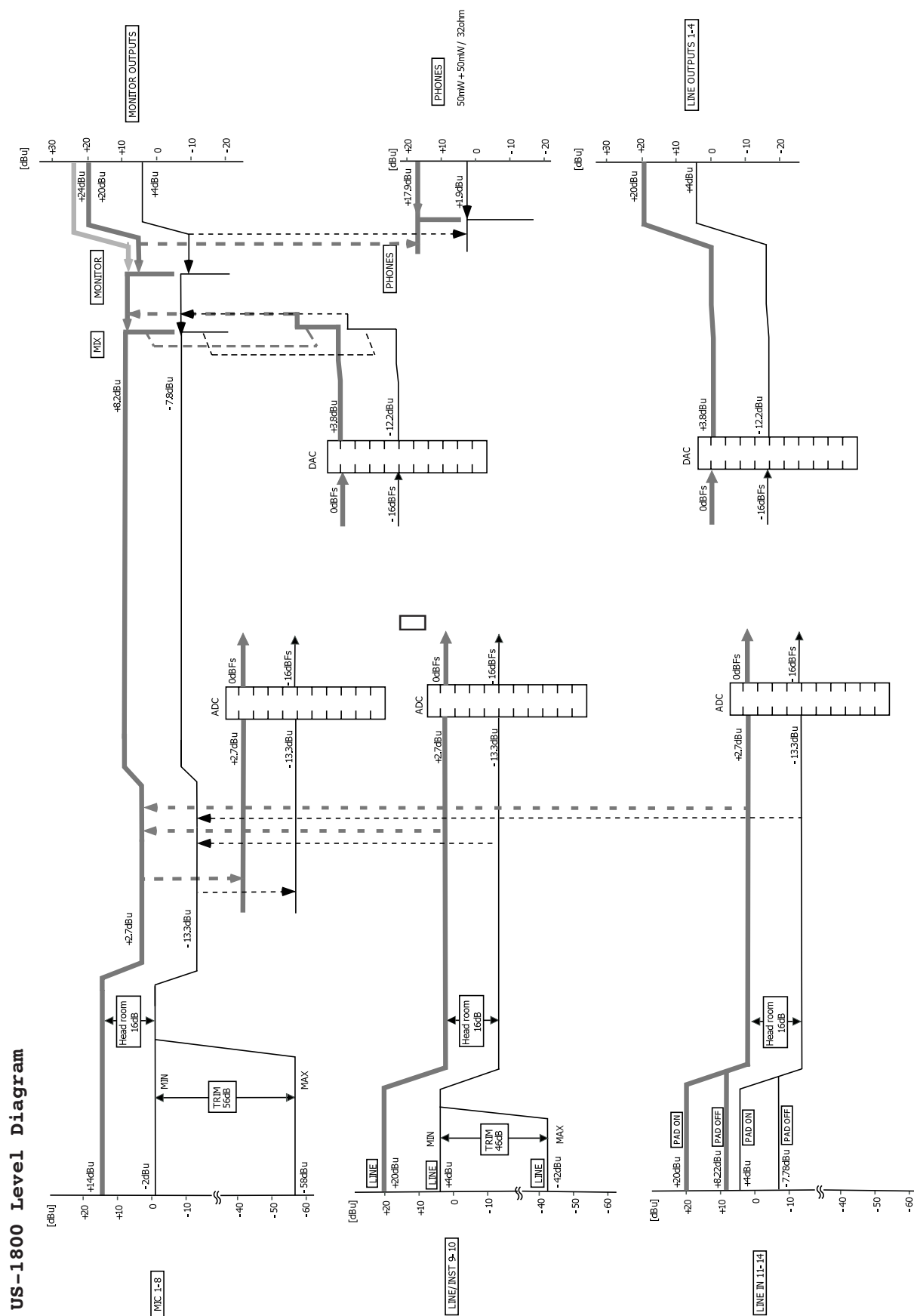
2 Block Diagram

ブロックダイアグラム



3. Level Diagram

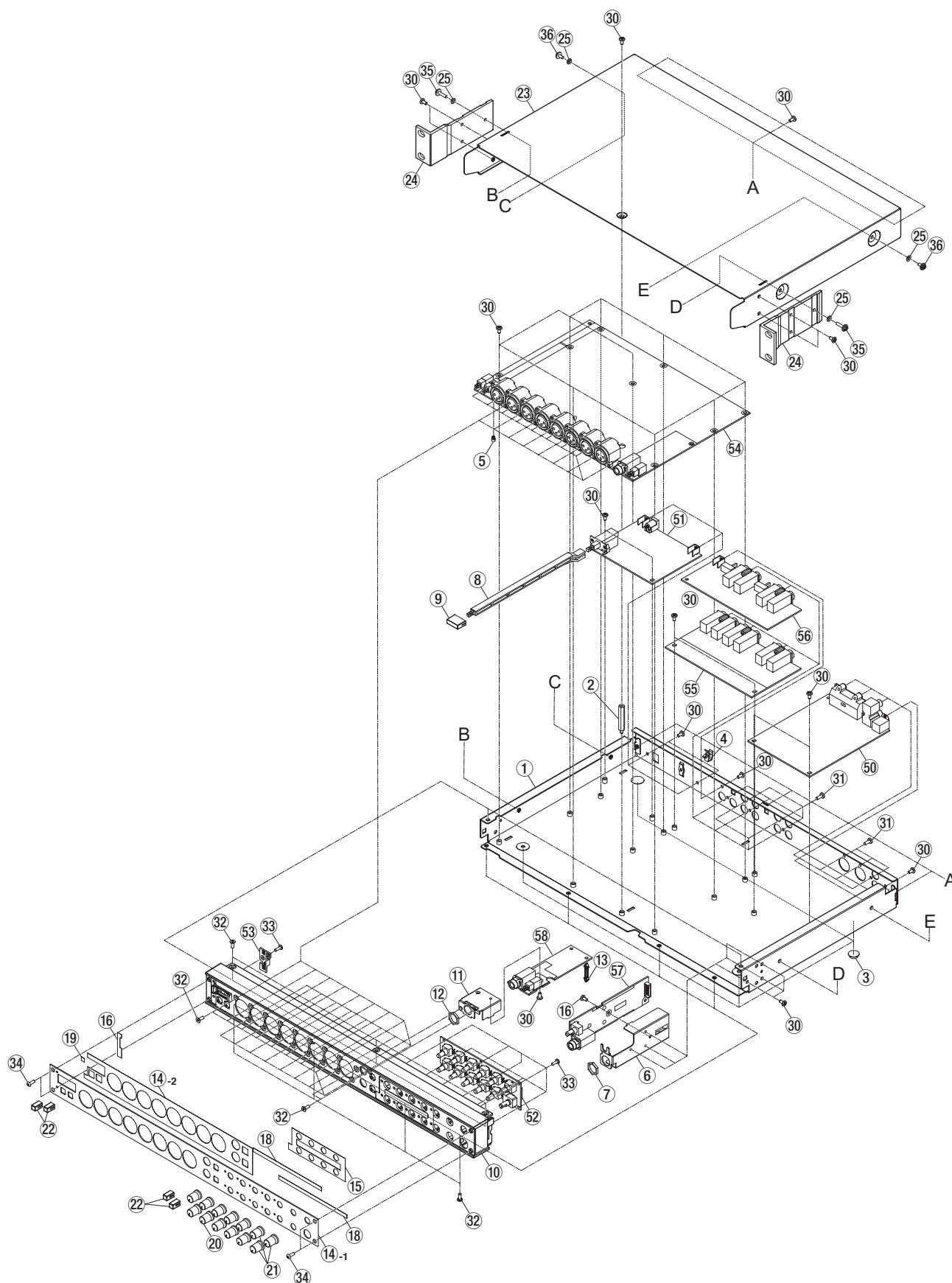
レベルダイアグラム



4. Exploded Views and Parts List

分解図とパーツリスト

Exploded View-1

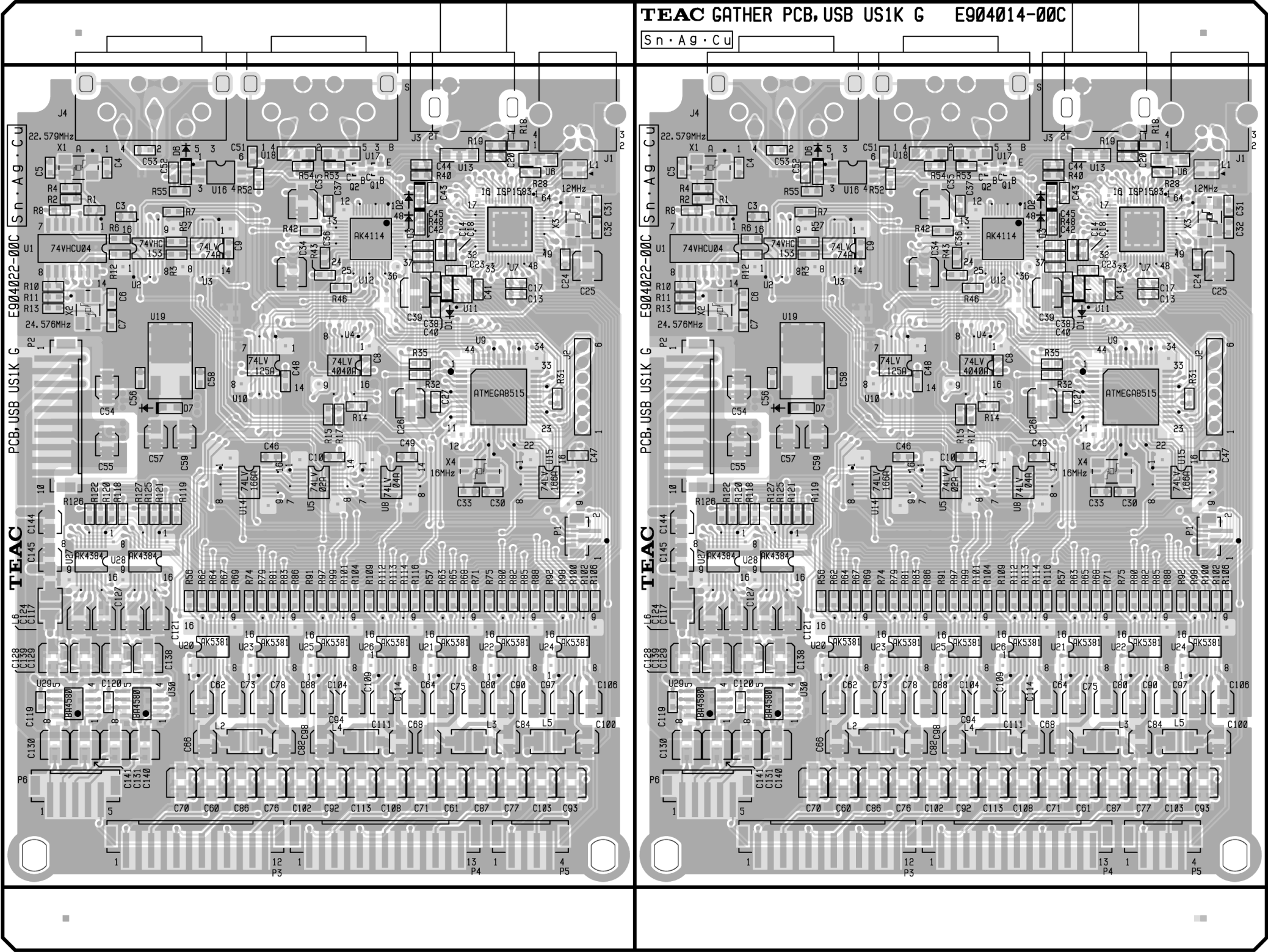


Exploded View-1

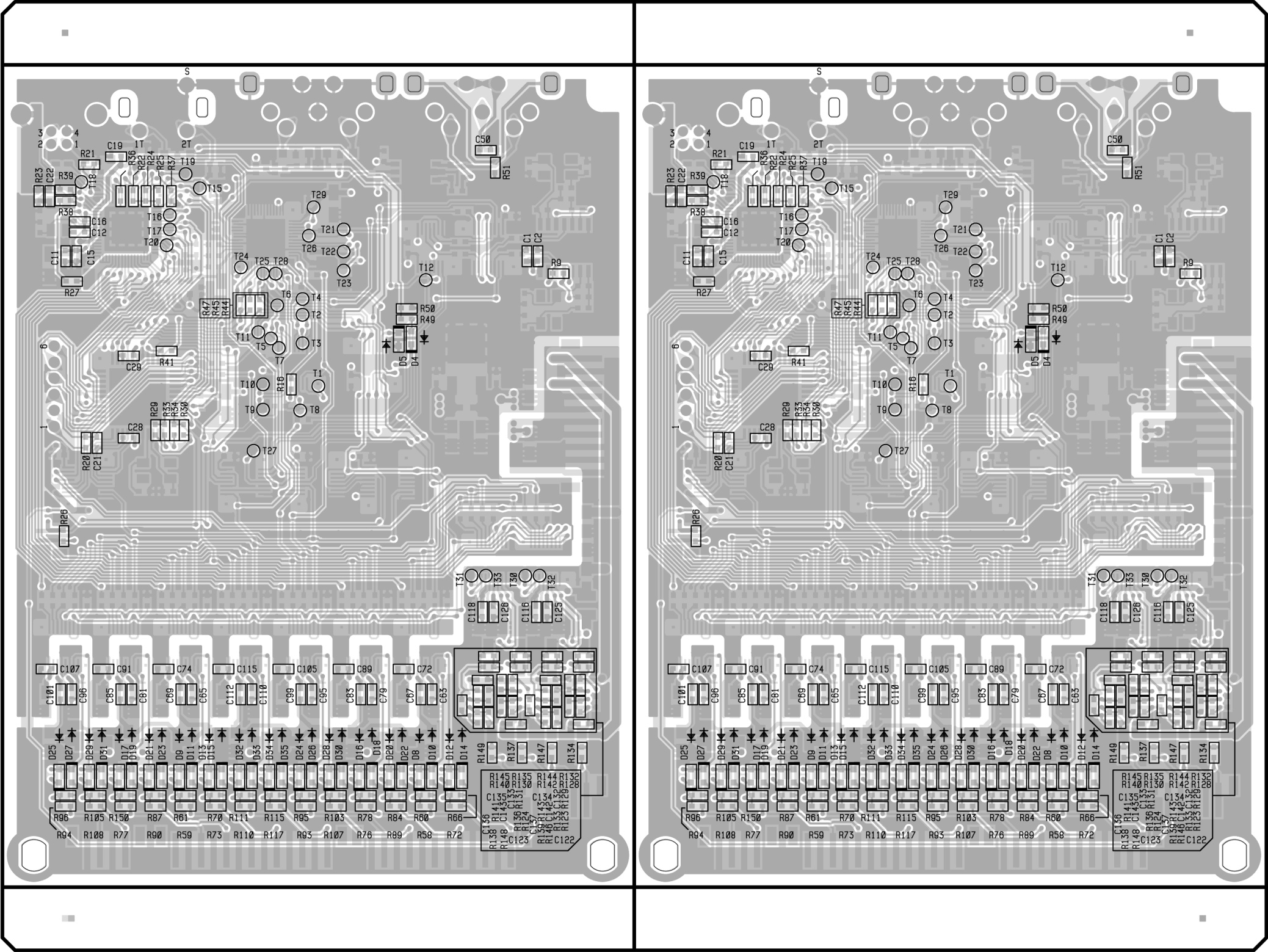
REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
1- 1	M03218900B	CHASSIS,BOTTOM US1K G	
1- 2	M03254600A	SPACER,US1800 G	
1- 3	M01267300A	FOOT,D12.7H3.6 3M3J5012 G	
1- 4	3M0199300A	CLAMP SH3 US-428 G	
1- 5	M02567800A	SPACER,SS1-3L G	
1- 6	M02676000C	BRACKET,HP 1641 G	
1- 7	3M0131000A	NUT, M12X2.3 G	
1- 8	M02675800A	LINK,PWRSW 1641 G	
1- 9	M01891200C	BUTTON,POWER FLAT G	
1-10	M03218800C	FRONT PANEL,US1K G	
1-11	M03224900A	BRACKET,JACK US1K G	
1-12	3M0131000A	NUT, M12X2.3 G	
1-13	M01902500A	SPACER,KANG.LCF-15 G	
1-14	V00185000A	FRT PLATE SV KIT,US1800 G	
1-14	(M03342100A)	FRONT PLATE ASSY,US1800 G	
1-14-1	(M03219300D)	PLATE,FRONT US1K G	
1-14-2	(M03256600A)	SHEET,AD MAIN US1800 G	
1-15	M03219700A	SHEET,VR LED US1K G	
1-16	M03219800A	SHEET,USB LED US1K G	
1-17			
1-18	M03219900A	SHEET,ADHESIVE US1K G	
1-19	M02965600A	TAPE,DF 5X5 G	
1-20	M03219000A	KNOB,VR US1K G	
1-21	M03219100A	KNOB,MIX US1K G	
1-22	M03219200B	BUTTON,ONOFF US1K G	
1-23	M02675501A	BONNET,1U BLK G	
1-24	M03219400A	ANGLE,EXTRUDE US1K G	
1-25	M02788000A	T LK WSHR,3D G	
1-30	B00171406A	SCREW,BPA 3*6 FZB G	
1-31	B00199708A	SCREW,BPB 3*8 FZB G	
1-32	B00117800C	SCREW DPB3*8 FZC G	
1-33	B00199108A	SCREW,BPP 2.6*8 FZB G	
1-34	B00329900A	SCREW,BUTTON HEAD 3*8 G	
1-35	B00197612A	SCREW,PPSU 3*12 FZB G	
1-36	B00197606A	SCREW,PPSU 3*6 FZB G	
1-50	(E95402200A)	PCBA,USB US1K G.....	Refer to page 15 (GATHER PCBA,USB US1K G)
1-51	(E95401900A)	PCBA,POWER US1K G.....	Refer to page 16 (GATHER PCBA,POWER US1800 G)
1-52	(E95402000A)	PCBA,VR US1K G.....	Refer to page 16 (GATHER PCBA,POWER US1800 G)
1-53	(E95402100A)	PCBA,LED US1K G.....	Refer to page 16 (GATHER PCBA,POWER US1800 G)
1-54	(E95401500A)	PCBA,ANALOG US1K G.....	Refer to page 17 (GATHER PCBA,ANALOG US1800 G)
1-55	(E95401800A)	PCBA,REAR US1K G.....	Refer to page 18 (GATHER PCBA,ANALOG US1800 G)
1-56	(E95401700A)	PCBA,R-JACK US1K G.....	Refer to page 19 (GATHER PCBA,ANALOG US1800 G)
1-57	(E95327910A)	PCB ASSY,PHONE US1800 G.....	Refer to page 19 (GATHER PCBA,PHONE US1800 G)
1-58	(E95401600A)	PCBA,F-JACK US1K G.....	Refer to page 19 (GATHER PCBA,ANALOG US1800 G)

5. PC Boards and Parts List
基板図とパーツリスト

GATHER PCB, USB UK1K G (PCB,USB) (Side A)

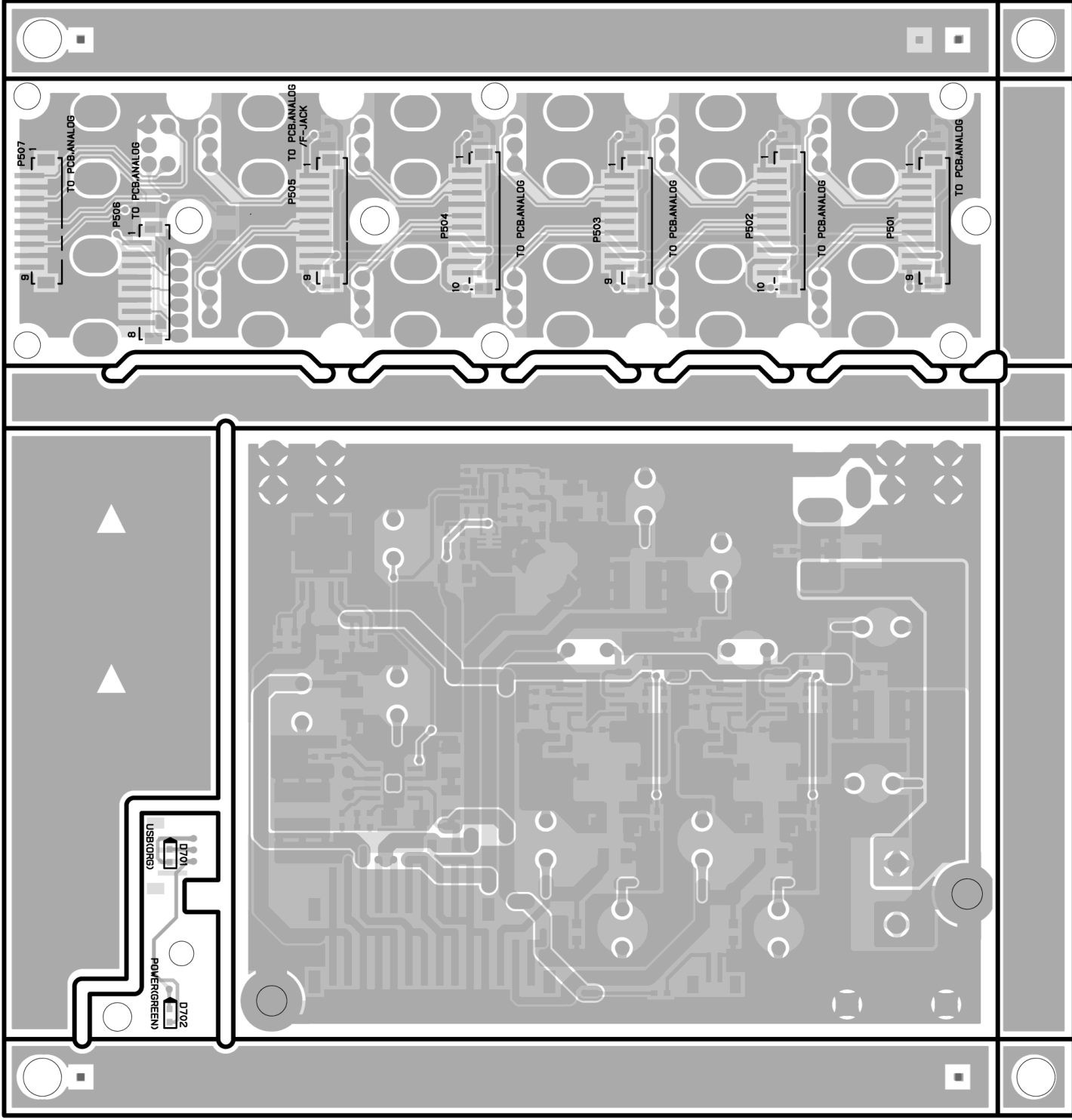
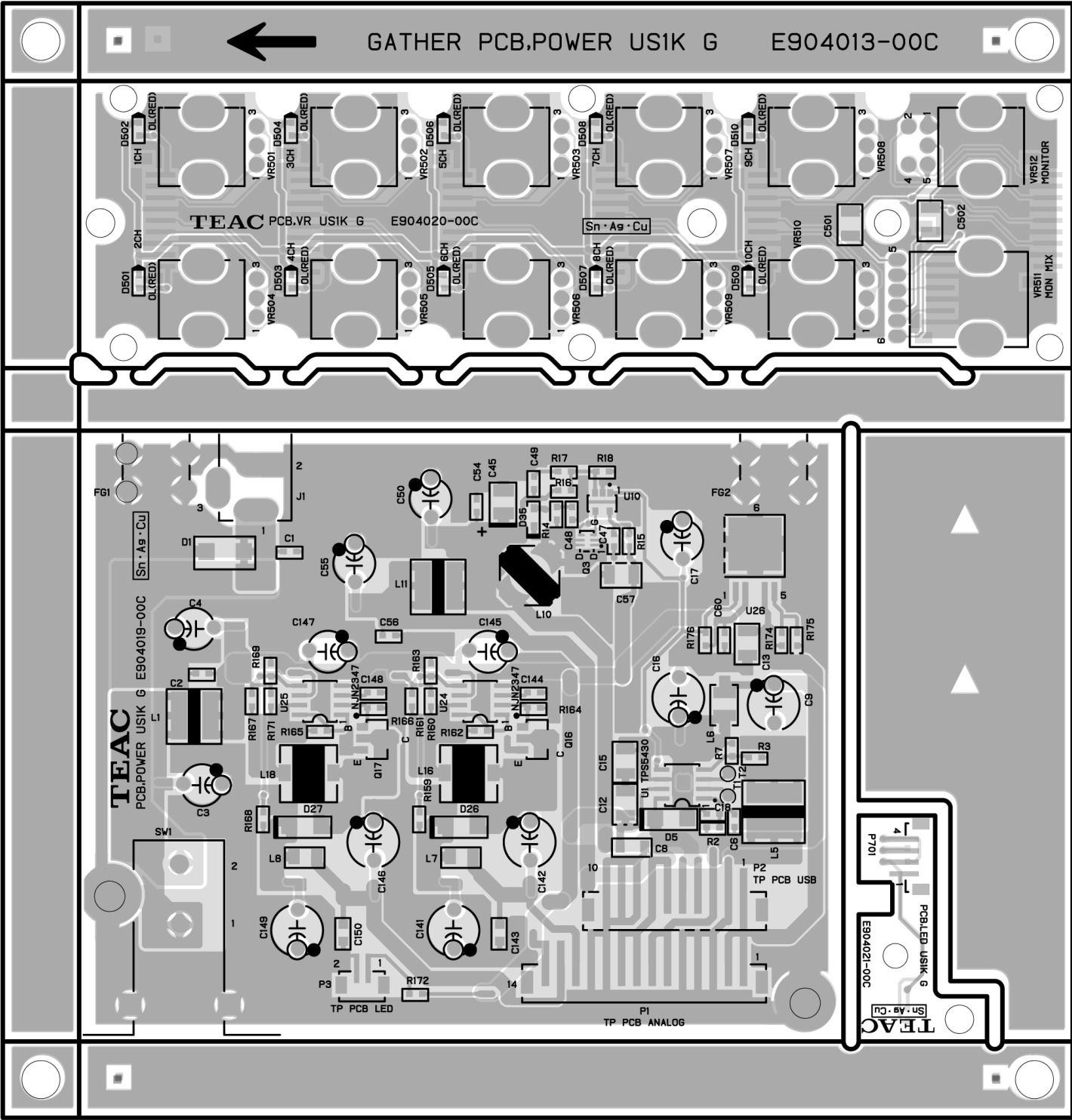


GATHER PCB, USB UK1K G (PCB,USB) (Side B)

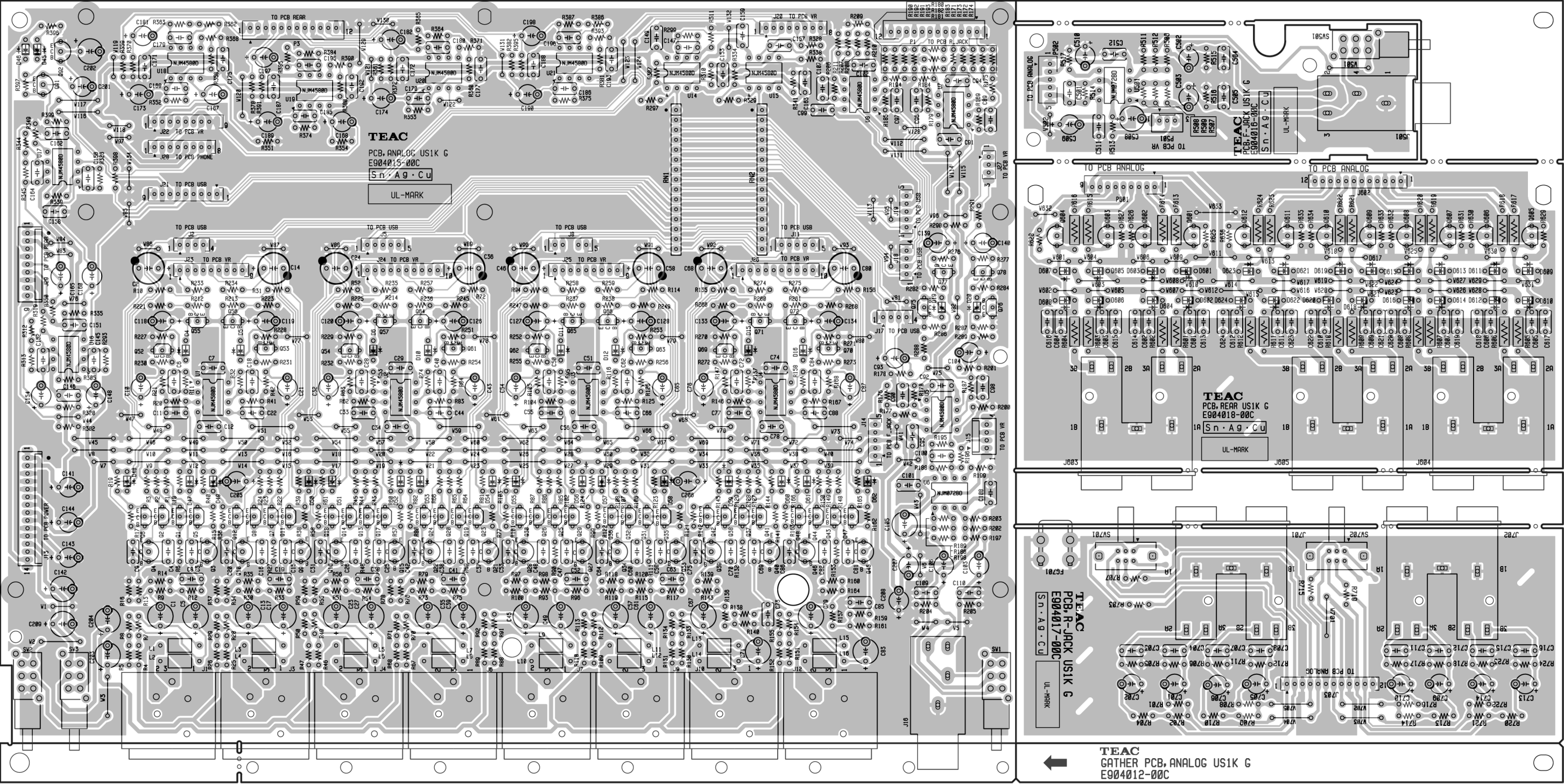


GATHER PCB, POWER UK1K G (PCB,POWER PCB,VR PCB,LED) (Side A)

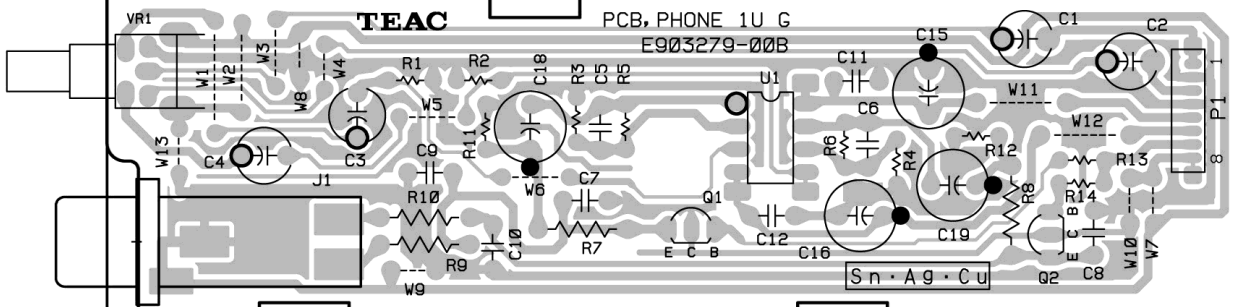
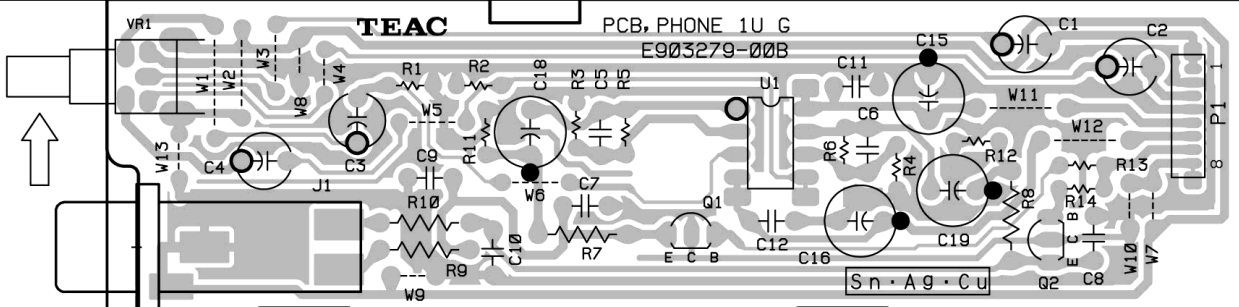
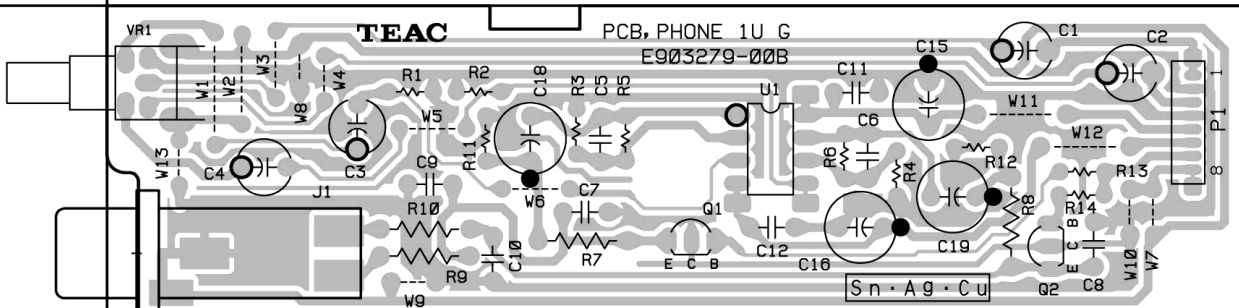
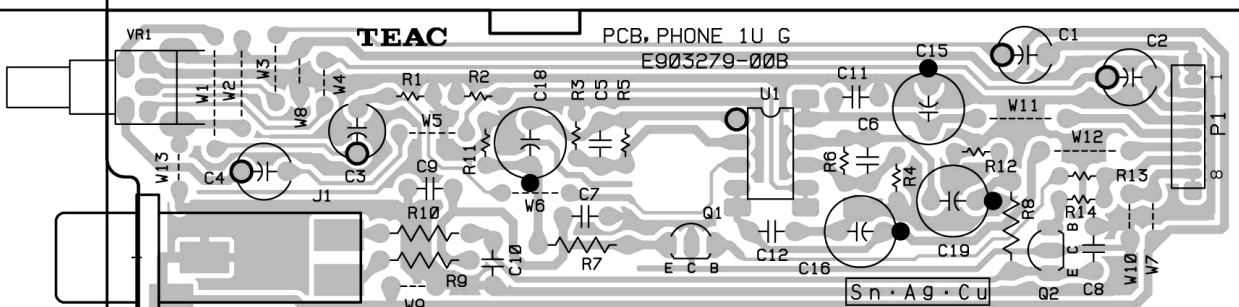
GATHER PCB, POWER UK1K G (PCB,POWER PCB,VR PCB,LED) (Side B)



GATHER PCB, ANALOG US18000 G (PCB, ANALOG PCB, REAR PCB, F-JACK PCB, R-JACK PCB)



GATHER PCB,PHONE 1U G (PCB,PHONE)

	
	E903278-00B
	GATHER PCB, PHONE 1U G
	TEAC

GATHER PCBA,USB 1K G

REF.NO.	PARTS NO.	DESCRIPTION
	E95401400A (E90402200C)	GATHER PCBA,USB US1K G PCB,USB US1K G
	(E85402200A)	PCBA,USB US1K G
D1	S0022094	DIODE,1SS355
D2	S0022094	DIODE,1SS355
D3	S0022094	DIODE,1SS355
D4	S0022094	DIODE,1SS355
D5	S0022094	DIODE,1SS355
D6	S0022094	DIODE,1SS355
D7	S0022094	DIODE,1SS355
D8	S0022094	DIODE,1SS355
D9	S0022094	DIODE,1SS355
D10	S0022094	DIODE,1SS355
D11	S0022094	DIODE,1SS355
D12	S0022094	DIODE,1SS355
D13	S0022094	DIODE,1SS355
D14	S0022094	DIODE,1SS355
D15	S0022094	DIODE,1SS355
D16	S0022094	DIODE,1SS355
D17	S0022094	DIODE,1SS355
D18	S0022094	DIODE,1SS355
D19	S0022094	DIODE,1SS355
D20	S0022094	DIODE,1SS355
D21	S0022094	DIODE,1SS355
D22	S0022094	DIODE,1SS355
D23	S0022094	DIODE,1SS355
D24	S0022094	DIODE,1SS355
D25	S0022094	DIODE,1SS355
D26	S0022094	DIODE,1SS355
D27	S0022094	DIODE,1SS355
D28	S0022094	DIODE,1SS355
D29	S0022094	DIODE,1SS355
D30	S0022094	DIODE,1SS355
D31	S0022094	DIODE,1SS355
D32	S0022094	DIODE,1SS355
D33	S0022094	DIODE,1SS355
D34	S0022094	DIODE,1SS355
D35	S0022094	DIODE,1SS355
J1	E0115760	CONN,USB UBB4RD14C4D G
J2	E0123970	PIN,2211S-06G G
J3	E0124171	JACK,HSP-242V2-23-G G
J4	E0127620	MINIDINJACK HDC-052AP-12 G
L1	E0128484	FILTER,956BP-1002=P2 G
L2	E0101174	COIL,LQH43CN100K03L G
L3	E0101174	COIL,LQH43CN100K03L G
L4	E0101174	COIL,LQH43CN100K03L G
L5	E0101174	COIL,LQH43CN100K03L G
L6	E0101174	COIL,LQH43CN100K03L G
P1	E0102314	CONNECTOR,B 2B-ZR-SM4(LF)
P2	E0101994	CONNECTOR,B10B-PH-SM4(LF)
P3	E0102014	CONNECTOR,B12B-PH-SM4(LF)
P4	E0102024	CONNECTOR,B13B-PH-SM4(LF)

GATHER PCBA,USB 1K G

REF.NO.	PARTS NO.	DESCRIPTION
P5	E0101934	CONNECTOR,B4B-PH-SM4(LF) G
P6	E0101944	CONNECTOR,B 5B-PH-SM4(LF)
Q1	S0041574	TRANSISTOR,DTA124EUA G
Q2	S0065074	TRANSISTOR,DTC124EUA TP G
U1	S0018944	IC,TC74VHC04F(EL) G
U2	S0051954	IC,TC74VHC153FT G
U3	S0065784	IC,SN74LV74APWR G
U4	S0065794	IC,SN74LV4040APWR G
U5	S0035004	IC,SN74LV02APWR G
U6	E0124074	FILTER,EXCCET101U G
U7	S0064744	IC,ISP1583BS G
U8	S0037894	IC,SN74LV04APWR G
U9	S00890500A	IC,ROM ASSY US1K G
U9		IC,ATMEGA8515-16AU G
U9		SOFTWARE SPEC,US-1K V100G
U9		LABEL,ROM US-1K G
U10	S0051243	IC,SN74LVC125APWR TSSOP
U11	S0064184	IC,PQ1X331M2ZPH G
U12	S0064734	IC,AK4114VQ G
U13	E0124074	FILTER,EXCCET101U G
U14	S0064764	IC,SN74LV166APW G
U15	S0064764	IC,SN74LV166APW G
U16	S0065754	PHOTO COUPLER PC410LONIPOP
U17	E0124064	FILTER,EXCCET471U G
U18	E0124064	FILTER,EXCCET471U G
U19	S0064984	IC,BA033FP-E2SMT TAPING G
U20	S0064724	IC,AK5381ET G
U21	S0064724	IC,AK5381ET G
U22	S0064724	IC,AK5381ET G
U23	S0064724	IC,AK5381ET G
U24	S0064724	IC,AK5381ET G
U25	S0064724	IC,AK5381ET G
U26	S0064724	IC,AK5381ET G
U27	S0065814	IC,AK4384ET G
U28	S0065814	IC,AK4384ET G
U29	S0081734	IC,BA4580RF-E2 G
U30	S0081734	IC,BA4580RF-E2 G
X1	E0160324	RESONATOR,ES6B22.579MHZ G
X2	E0160334	RESONATOR,ES6B24.576MHZ G
X3	E0141184	RESONATOR,12.0000MHZ G
X4	E0160344	RESONATOR,ES6B16.000MHZ G

GATHER PCBA,POWER US1K G

REF.NO.	PARTS NO.	DESCRIPTION
	E95401300A	GATHER PCBA,POWER US1K G
	(E90401900C)	PCB,POWER US1K G
	(E90402000C)	PCB,VR US1K G
	(E90402100C)	PCB,LED US1K G
	(E95401900A)	PCBA,POWER US1K G
D1	S0074504	DIODE,P6SMBJ13C G
D5	S0047674	DIODE,RB160L-60 G
D26	S0047674	DIODE,RB160L-60 G
D27	S0047674	DIODE,RB160L-60 G
D35	S0075354	DIODE,RB551V-30 TE17 G
FG1	M01510100A	BRACKET,PCB-A G
FG2	M01510100A	BRACKET,PCB-A G
J1	E0140880	JACK,POWER DJ-0702-020 G
L1	E0069824	COIL,CDRH5D28-100NC G
L5	E0158154	COIL,CDRH6D28NP-150NC G
L6	E0101174	COIL,LQH43CN100K03L G
L7	E0124024	COIL,ELJPA220KF G
L8	E0124024	COIL,ELJPA220KF G
L10	E0147934	COIL,CDR7D43MNNP-330NC G
L11	E0069824	COIL,CDRH5D28-100NC G
L16	E0127024	COIL,CDRH74-102 G
L18	E0127024	COIL,CDRH74-102 G
P1	E0102034	CONNECTOR,B14B-PH-SM4(LF)
P2	E0101994	CONNECTOR,B10B-PH-SM4(LF)
P3	E0102314	CONNECTOR,B 2B-ZR-SM4(LF)
Q3	S0076614	TRANSISTOR,RSL020P03 G
Q16	S0065774	TRANSISTOR,2SC3646 G
Q17	S0065774	TRANSISTOR,2SC3646 G
SW1	E0125690	SW,SFDLB11M7U G
U1	S0082474	IC,TPS5430DDAR G
U10	S0066444	IC,R1224N102H F G
U24	S0058774	IC,NJM2374AE G
U25	S0058774	IC,NJM2374AE G
U26	S0088754	IC,BA00BC0WFP-E2 G
	(E95402000A)	PCBA,VR US1K G
D501	S0083594	LED,SML-E12U8W G
D502	S0083594	LED,SML-E12U8W G
D503	S0083594	LED,SML-E12U8W G
D504	S0083594	LED,SML-E12U8W G
D505	S0083594	LED,SML-E12U8W G
D506	S0083594	LED,SML-E12U8W G
D507	S0083594	LED,SML-E12U8W G
D508	S0083594	LED,SML-E12U8W G
D509	S0083594	LED,SML-E12U8W G
D510	S0083594	LED,SML-E12U8W G
P501	E0138894	CONNECTOR,A1501WV0-9PS G
P502	E0102394	CONNECTOR,B10B-ZR-SM4(LF)
P503	E0138894	CONNECTOR,A1501WV0-9PS G
P504	E0102394	CONNECTOR,B10B-ZR-SM4(LF)
P505	E0138894	CONNECTOR,A1501WV0-9PS G
P506	E0138934	CONNECTOR,A1501WV0-8PS G
P507	E0138894	CONNECTOR,A1501WV0-9PS G
VR501	R0204630	VAR RES,XV09213NPV20F20KG
VR502	R0204630	VAR RES,XV09213NPV20F20KG
VR503	R0204630	VAR RES,XV09213NPV20F20KG
VR504	R0204630	VAR RES,XV09213NPV20F20KG
VR505	R0204630	VAR RES,XV09213NPV20F20KG
VR506	R0204630	VAR RES,XV09213NPV20F20KG
VR507	R0204630	VAR RES,XV09213NPV20F20KG
VR508	R0204630	VAR RES,XV09213NPV20F20KG
VR509	R0204630	VAR RES,XV09213NPV20F20KG

GATHER PCBA,POWER US1K G

REF.NO.	PARTS NO.	DESCRIPTION
VR510	R0204630	VAR RES,XV09213NPV20F20KG
VR511	R0211290	VAR RES,RK12L1230C0C G
VR512	R0181630	VAR RES,RK09K12CF20 10KA G
	(E95402100A)	PCBA,LED US1K G
D701	S0083584	LED,SML-E12D8W G
D702	S0083574	LED,SML-E12P8W G
P701	E0102334	CONN,B 4B-ZR-SM4(LF)(SN) G

GATHER PCBA,ANALOG US1K G

REF.NO.	PARTS NO.	DESCRIPTION
	E95401200A	GATHER PCBA,ANALOG US1K G
	(E90401500C)	PCB,ANALOG US1K G
	(E90401800C)	PCB,REAR US1K G
	(E90401700C)	PCB,R-JACK US1K G
	(E90401600C)	PCB,F-JACK US1K G
	(E95401500A)	PCBA,ANALOG US1K G
D4	S0067021	DIODE,1SS133 T-77 G
D5	S0067021	DIODE,1SS133 T-77 G
D6	S0067021	DIODE,1SS133 T-77 G
D10	S0067021	DIODE,1SS133 T-77 G
D11	S0067021	DIODE,1SS133 T-77 G
D12	S0067021	DIODE,1SS133 T-77 G
D15	S0067021	DIODE,1SS133 T-77 G
D16	S0067021	DIODE,1SS133 T-77 G
D19	S0067021	DIODE,1SS133 T-77 G
D20	S0067021	DIODE,1SS133 T-77 G
D45	S0067021	DIODE,1SS133 T-77 G
D46	S0067021	DIODE,1SS133 T-77 G
D47	S0067021	DIODE,1SS133 T-77 G
D48	S0067021	DIODE,1SS133 T-77 G
D49	S0067021	DIODE,1SS133 T-77 G
D50	S0067021	DIODE,1SS133 T-77 G
D51	S0067021	DIODE,1SS133 T-77 G
D52	S0067021	DIODE,1SS133 T-77 G
D53	S0067021	DIODE,1SS133 T-77 G
D54	S0067021	DIODE,1SS133 T-77 G
D55	S0067021	DIODE,1SS133 T-77 G
D56	S0067021	DIODE,1SS133 T-77 G
D57	S0067021	DIODE,1SS133 T-77 G
D58	S0067021	DIODE,1SS133 T-77 G
D59	S0067021	DIODE,1SS133 T-77 G
D60	S0067021	DIODE,1SS133 T-77 G
D61	S0067021	DIODE,1SS133 T-77 G
D62	S0067021	DIODE,1SS133 T-77 G
J1	E0123990	JACK,XLR JY-5033A G
J3	E0123990	JACK,XLR JY-5033A G
J4	E0123990	JACK,XLR JY-5033A G
J6	E0123990	JACK,XLR JY-5033A G
J7	E0123990	JACK,XLR JY-5033A G
J9	E0123990	JACK,XLR JY-5033A G
J10	E0123990	JACK,XLR JY-5033A G
J12	E0123990	JACK,XLR JY-5033A G
J16	E0125640	JACK,PHONE JY-6313*01-340 G
L1	E0126141	BEAD,WBRN-3.5*6*0.8 TP G
L2	E0126141	BEAD,WBRN-3.5*6*0.8 TP G
L3	E0126141	BEAD,WBRN-3.5*6*0.8 TP G
L4	E0126141	BEAD,WBRN-3.5*6*0.8 TP G
L5	E0126141	BEAD,WBRN-3.5*6*0.8 TP G
L6	E0126141	BEAD,WBRN-3.5*6*0.8 TP G
L7	E0126141	BEAD,WBRN-3.5*6*0.8 TP G
L8	E0126141	BEAD,WBRN-3.5*6*0.8 TP G
L9	E0126141	BEAD,WBRN-3.5*6*0.8 TP G
L10	E0126141	BEAD,WBRN-3.5*6*0.8 TP G

GATHER PCBA,ANALOG US1K G

REF.NO.	PARTS NO.	DESCRIPTION
L11	E0126141	BEAD,WBRN-3.5*6*0.8 TP G
L12	E0126141	BEAD,WBRN-3.5*6*0.8 TP G
L13	E0126141	BEAD,WBRN-3.5*6*0.8 TP G
L14	E0126141	BEAD,WBRN-3.5*6*0.8 TP G
L15	E0126141	BEAD,WBRN-3.5*6*0.8 TP G
L16	E0126141	BEAD,WBRN-3.5*6*0.8 TP G
P1	E0126740	CONNECTOR,12P A2001WV W G
P3	E0126740	CONNECTOR,12P A2001WV W G
Q1	S0068201	TRANSISTOR,2SA1048GR(FT)G
Q2	S0068201	TRANSISTOR,2SA1048GR(FT)G
Q3	S0068922	@TRANSISTOR,2SA1084ETZ-E G
Q4	S0068922	@TRANSISTOR,2SA1084ETZ-E G
Q5	S0068211	TRANSISTOR,2SC5395-T112FG
Q6	S0068211	TRANSISTOR,2SC5395-T112FG
Q7	S0068201	TRANSISTOR,2SA1048GR(FT)G
Q8	S0068201	TRANSISTOR,2SA1048GR(FT)G
Q9	S0068922	@TRANSISTOR,2SA1084ETZ-E G
Q10	S0068922	@TRANSISTOR,2SA1084ETZ-E G
Q11	S0068211	TRANSISTOR,2SC5395-T112FG
Q12	S0068211	TRANSISTOR,2SC5395-T112FG
Q13	S0068201	TRANSISTOR,2SA1048GR(FT)G
Q14	S0068201	TRANSISTOR,2SA1048GR(FT)G
Q15	S0068922	@TRANSISTOR,2SA1084ETZ-E G
Q16	S0068922	@TRANSISTOR,2SA1084ETZ-E G
Q17	S0068211	TRANSISTOR,2SC5395-T112FG
Q18	S0068211	TRANSISTOR,2SC5395-T112FG
Q19	S0068201	TRANSISTOR,2SA1048GR(FT)G
Q20	S0068201	TRANSISTOR,2SA1048GR(FT)G
Q21	S0068922	@TRANSISTOR,2SA1084ETZ-E G
Q22	S0068922	@TRANSISTOR,2SA1084ETZ-E G
Q23	S0068211	TRANSISTOR,2SC5395-T112FG
Q24	S0068211	TRANSISTOR,2SC5395-T112FG
Q25	S0068201	TRANSISTOR,2SA1048GR(FT)G
Q26	S0068201	TRANSISTOR,2SA1048GR(FT)G
Q27	S0068922	@TRANSISTOR,2SA1084ETZ-E G
Q28	S0068922	@TRANSISTOR,2SA1084ETZ-E G
Q29	S0068211	TRANSISTOR,2SC5395-T112FG
Q30	S0068211	TRANSISTOR,2SC5395-T112FG
Q31	S0068201	TRANSISTOR,2SA1048GR(FT)G
Q32	S0068201	TRANSISTOR,2SA1048GR(FT)G
Q33	S0068922	@TRANSISTOR,2SA1084ETZ-E G
Q34	S0068922	@TRANSISTOR,2SA1084ETZ-E G
Q35	S0068211	TRANSISTOR,2SC5395-T112FG
Q36	S0068211	TRANSISTOR,2SC5395-T112FG
Q37	S0068201	TRANSISTOR,2SA1048GR(FT)G
Q38	S0068201	TRANSISTOR,2SA1048GR(FT)G
Q39	S0068922	@TRANSISTOR,2SA1084ETZ-E G
Q40	S0068922	@TRANSISTOR,2SA1084ETZ-E G
Q41	S0068211	TRANSISTOR,2SC5395-T112FG
Q42	S0068211	TRANSISTOR,2SC5395-T112FG
Q43	S0068201	TRANSISTOR,2SA1048GR(FT)G
Q44	S0068201	TRANSISTOR,2SA1048GR(FT)G
Q45	S0068922	@TRANSISTOR,2SA1084ETZ-E G

GATHER PCBA,ANALOG US1K G

REF.NO.	PARTS NO.	DESCRIPTION
Q46	S0068922	@TRANSISTOR,2SA1084ETZ-E G
Q47	S0068211	TRANSISTOR,2SC5395-T112FG
Q48	S0068211	TRANSISTOR,2SC5395-T112FG
Q52	S0069222	TRANSISTOR,DTC124ESATP G
Q53	S0069222	TRANSISTOR,DTC124ESATP G
Q54	S0069222	TRANSISTOR,DTC124ESATP G
Q55	S0069232	TRANSISTOR,DTA124ESATP G
Q56	S0069232	TRANSISTOR,DTA124ESATP G
Q57	S0069232	TRANSISTOR,DTA124ESATP G
Q61	S0069222	TRANSISTOR,DTC124ESATP G
Q62	S0069222	TRANSISTOR,DTC124ESATP G
Q63	S0069222	TRANSISTOR,DTC124ESATP G
Q64	S0069232	TRANSISTOR,DTA124ESATP G
Q65	S0069232	TRANSISTOR,DTA124ESATP G
Q66	S0069232	TRANSISTOR,DTA124ESATP G
Q69	S0069222	TRANSISTOR,DTC124ESATP G
Q70	S0069222	TRANSISTOR,DTC124ESATP G
Q71	S0069232	TRANSISTOR,DTA124ESATP G
Q72	S0069232	TRANSISTOR,DTA124ESATP G
Q75	S0069222	TRANSISTOR,DTC124ESATP G
Q76	S0069222	TRANSISTOR,DTC124ESATP G
Q77	S0069232	TRANSISTOR,DTA124ESATP G
Q78	S0069232	TRANSISTOR,DTA124ESATP G
Q91	S0066842	TRANSISTOR,2SA1015GR-T G
Q92	S0065482	TR,2SC1815-GR(TPE2.F) GZO
RN1	R0211370	RES ARRAY,RKC14BD103J G
RN2	R0211370	RES ARRAY,RKC14BD103J G
SW1	E0171200	SW,PUSH SPPJ22NE01 G
SW2	E0171200	SW,PUSH SPPJ22NE01 G
SW3	E0171200	SW,PUSH SPPJ22NE01 G
U1	S0067650	IC,NJM4580D G
U2	S0067650	IC,NJM4580D G
U3	S0067650	IC,NJM4580D G
U4	S0067650	IC,NJM4580D G
U5	S0067650	IC,NJM4580D G
U6	S0074310	IC,NJM072BD G
U7	S0067650	IC,NJM4580D G
U8	S0067650	IC,NJM4580D G
U14	S0067650	IC,NJM4580D G
U15	S0067650	IC,NJM4580D G
U16	S0067650	IC,NJM4580D G
U17	S0067650	IC,NJM4580D G
U18	S0067650	IC,NJM4580D G
U19	S0067650	IC,NJM4580D G
U20	S0067650	IC,NJM4580D G
U21	S0067650	IC,NJM4580D G
	E01714500C	HA,POW-P1-ANA-P4 UK1G
	E01715300A	HA,ANA-J11-USB-P4 US1KG
	E01716400C	HA,ANA-J14-FJA-P502 US1KG
	E01716000B	HA,ANA-J15-VR-P505 US1KG
	E01715400B	HA,ANA-J19-USB-P5 US1KG
	E01716100A	HA,ANA-J20-VR-P506 US1KG
	E01716300B	HA,ANA-J21-USB-P6 US1KG

GATHER PCBA,ANALOG US1K G

REF.NO.	PARTS NO.	DESCRIPTION
	E01716200A	HA,ANA-J22-VR-P507 US1KG
	E01715600B	HA,ANA-J23-VR-P501 US1KG
	E01715700B	HA,ANA-J24-VR-P502 US1KG
	E01715800A	HA,ANA-J25-VR-P503 US1KG
	E01715900A	HA,ANA-J26-VR-P504 US1KG
	E01715500A	HA,ANA-J28-HP-P1 US1KG
	E01714700D	HA,REAR-J601-ANA-P2 US1KG
	(E95401800A)	PCBA,REAR US1K G
D601	S0067021	DIODE,1SS133 T-77 G
D602	S0067021	DIODE,1SS133 T-77 G
D603	S0067021	DIODE,1SS133 T-77 G
D604	S0067021	DIODE,1SS133 T-77 G
D605	S0067021	DIODE,1SS133 T-77 G
D606	S0067021	DIODE,1SS133 T-77 G
D607	S0067021	DIODE,1SS133 T-77 G
D608	S0067021	DIODE,1SS133 T-77 G
D609	S0067021	DIODE,1SS133 T-77 G
D610	S0067021	DIODE,1SS133 T-77 G
D611	S0067021	DIODE,1SS133 T-77 G
D612	S0067021	DIODE,1SS133 T-77 G
D613	S0067021	DIODE,1SS133 T-77 G
D614	S0067021	DIODE,1SS133 T-77 G
D615	S0067021	DIODE,1SS133 T-77 G
D616	S0067021	DIODE,1SS133 T-77 G
D617	S0067021	DIODE,1SS133 T-77 G
D618	S0067021	DIODE,1SS133 T-77 G
D619	S0067021	DIODE,1SS133 T-77 G
D620	S0067021	DIODE,1SS133 T-77 G
D621	S0067021	DIODE,1SS133 T-77 G
D622	S0067021	DIODE,1SS133 T-77 G
D623	S0067021	DIODE,1SS133 T-77 G
D624	S0067021	DIODE,1SS133 T-77 G
J603	E0133160	JACK,CPJ-066-005 G
J604	E0133160	JACK,CPJ-066-005 G
J605	E0133160	JACK,CPJ-066-005 G
P601	E0152220	CONNECTOR,9P A2001WV W G
Q601	S0074832	TRANSISTOR,KTC2874BAT/PG
Q602	S0074832	TRANSISTOR,KTC2874BAT/PG
Q603	S0074832	TRANSISTOR,KTC2874BAT/PG
Q604	S0074832	TRANSISTOR,KTC2874BAT/PG
Q605	S0074832	TRANSISTOR,KTC2874BAT/PG
Q606	S0074832	TRANSISTOR,KTC2874BAT/PG
Q607	S0074832	TRANSISTOR,KTC2874BAT/PG
Q608	S0074832	TRANSISTOR,KTC2874BAT/PG
Q609	S0074832	TRANSISTOR,KTC2874BAT/PG
Q610	S0074832	TRANSISTOR,KTC2874BAT/PG
Q611	S0074832	TRANSISTOR,KTC2874BAT/PG
Q612	S0074832	TRANSISTOR,KTC2874BAT/PG
	E01714800A	HA,REAR-J602-ANA-P3 US1KG

GATHER PCBA,ANALOG US1K G

REF.NO.	PARTS NO.	DESCRIPTION
	(E95401700A)	PCBA,R-JACK US1K G
FG701	M01510100A	BRACKET,PCB-A G
J701	E0133160	JACK,CPJ-066-005 G
J702	E0133160	JACK,CPJ-066-005 G
SW701	E0139340	SW,SLIDE SSSF122400 G
SW702	E0139340	SW,SLIDE SSSF122400 G
	E01714900A	HA,RJA-J703-ANA-P1 US1KG
	(E95401600A)	PCBA,F-JACK US1K G
J501	E0125640	JACK,PHONE JY-6313*01-340 G
P501	E0119740	CONNECTOR,B 3B-PH-K-S G
P502	E0119760	CONNECTOR,B 5B-PH-K-S G
SW501	E0171200	SW,PUSH SPPJ22NE01 G
U501	S0074310	IC,NJM072BD G
	E01715200B	HA,ANA-J2-USB-P3 US1KG

GATHER PCBA,PHONE U1800 G

REF.NO.	PARTS NO.	DESCRIPTION
	E95327810A	GATHER PCBA,PHONE U1800 G
	(E90327900A)	PCB,PHONE 1U G
	(E95327910A)	PCB ASSY,PHONE U1800 G
Q1	S0074832	TRANSISTOR,KTC2874BAT/PG
Q2	S0074832	TRANSISTOR,KTC2874BAT/PG
J1	E0122600	JACK,065M WITH EARTH G
P1	E0102250	CONNECTOR,B 8B-ZR(LF) G
U1	S0067650	IC,NJM4580D G
VR1	R0155900	VAR RES,RK09K12A-20KAG

WIRE SECT

REF.NO.	PARTS NO.	DESCRIPTION
	E01714600B	HA,POW-P2-USB-P2 UK1G
	E01715000B	HA,POW-P3-LED-P702 US1KG

6. Included Accessories

付属品

Included Accessories

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
	D01127701A	OWNERS MNL,J US1K G [JEX]	
	D01127720A	OWNERS MNL,E US1K G	
	D01127780A	OWNERS MNL,G US1K G [E]	
	D01127781A	OWNERS MNL,F US1K G [E]	
	D01127782A	OWNERS MNL,I US1K G [E]	
	D01127783A	OWNERS MNL,S US1K G [E]	
	D01113601A	CUBASE LE5 QSG,J G [JEX]	
	D01113620A	CUBASE LE5 QSG,E G	
	D01113681A	CUBASE LE5 QSG,F G [E]	
	D01113680A	CUBASE LE5 QSG,G G [E]	
	D01113682A	CUBASE LE5 QSG,I G [E]	
	D01113683A	CUBASE LE5 QSG,S G [E]	
	△ 3E035940	POWER CORD,EUR G [E]	
	△ 3E035950	POWER CORD,UL G [JEX,US/C]	
	△ 3E035960	POWER CORD,AUS G [A]	
	△ E0152590	POWER CORD,UK G [UK]	
	△ M02672100A	AC PLUG ASSY,MU-3 G	
	△ E0130250	AC PLUG,MU-3 G	
	△ E01376900A	AC ADAPTER,PS-1225L G	
	E0169050	USB CABLE,1.5M24/28BLK-BG	
	T00178500A	DISC,CD-ROM US1K G	
	T00176000A	DISC,DVD-ROM CUBASE LE5 G	
	3M0028300A	ASSY,RACK MOUNT SCREW KIT	
	3B0005812A	SCREW,BPA M5X12 (NI)	
	3M0028100A	WASHER-FIBER(BLK)	

NOTES

- PC boards shown are viewed from parts side.
- Parts marked with * require longer delivery time.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- △ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.

- Parts of [] mark can be used only with the version designated.
 [J] : JAPAN [US/C] : U.S.A./CANADA [K] : KOREA [E] : EUROPE
 [UK] : U.K. [JEX] : JAPAN & ASIA [A] : AUSTRALIA [T] : TAIWAN
 [CH] : CHINA [ETC] : U.S.A./CANADA/South America

注 意

- プリント基板図は部品面を示しています。
- *印の部品は納期が若干かかります。
あらかじめご了承ください。
- 分解図に部番のない部品および品番のない部品は供給できません。
- 標準の抵抗、コンデンサーは省略してあります。
回路図を参照してください。
- △印は安全重要部品です。
交換する時は必ず指定の部品を使用してください。

- 仕向先
 [J] : JAPAN [US/C] : U.S.A./CANADA [K] : KOREA [E] : EUROPE
 [UK] : U.K. [JEX] : JAPAN & ASIA [A] : AUSTRALIA [T] : TAIWAN
 [CH] : CHINA [ETC] : U.S.A./CANADA/South America