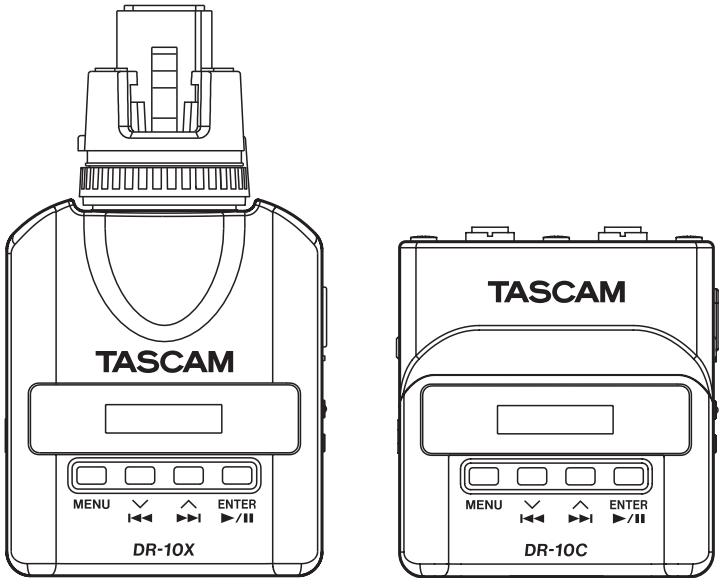

TASCAM

SERVICE MANUAL

DR-10X/10C

Compact Linear PCM Recorder

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INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

Effective : June, 2015

S-0272

1. Test Mode

テストモード

1. How to enter the test mode

While holding down **PHONES [-]**+I◄◄ keys, switch the power on.
"**TASCAM DR-10**" will appear on the display.

If when the process goes to a test mode that requires forced set to the RTC, it is necessary to RTC set first. In this case appears in the RTC setting screen earlier, the setting is completed, "**TEST MODE**" is displayed, unit will proceed to the test mode.

1. テストモードの起動方法

PHONES [-]+I◄◄ キーを押しながら電源を投入する。
ディスプレイ上には**"TACAM DR-10"**が表示される。

テストモード移行時にRTC強制設定が必要な場合は、先にRTC設定を行う必要がある。この場合はRTC設定画面が表示され、設定が完了すると、**"TEST MODE"**が表示されテストモードに移行する。

2. How to operation and the result

When "**TEST MODE**" is displayed, pressing the **MENU** key or **ENTER/►/❚❚** key shows the following test items.

2. 操作方法と判定結果

"TEST MODE"と表示されている状態で**MENU**キーまたは**ENTER/►/❚❚**キーを押すと下記のテスト項目を表示する。

TEST items / テスト項目	TEST function / テスト機能	TEST contents / テスト内容	OK	NG
"1 OLED test"	**"1 WHITE OUT"**	The entire screen lights. 画面全体が点灯表示	**"OLED OK"**	**"OLED FAILURE"** or **"I2C FAILURE"** or **"ILLEGAL PARA!"**
	"2 BLACK OUT"	The entire screen is off. 画面全体が消灯表示		
	"3 Power Save"	Display the **"Contrast 000"** at a minimum contrast. **"Contrast 000 "**を最小コントラストで表示		
	"4 Run 1s Row"	While the entire screen is off, only one horizontal line that is lit is scanned from top to bottom. 点灯する横線1本のみが上から下まで走査		
	"5 Run 1s Col"	While the entire screen is off, only vertical line one that is lit is scanned from left to right. 点灯する縦線1本のみが左から右まで走査		
	"6 Run 0s Row"	While the entire screen is lit, only one horizontal line that is off is scanned from top to bottom. 消灯する横線1本のみが上から下まで走査		
	"7 Run 0s Col"	While the entire screen is lit, only one horizontal line that is off is scanned from top to bottom. 消灯する縦線1本のみが左から右まで走査		
"2 IRDA test"		IRDA transceiver test IRDA送受信試験	**"IRDA OK"**	**"IRDA FAILURE"**
"3 RTC test "		RTC operation check RTC動作確認	**"RTC OK"**	**"RTC FAILURE"** or **"RTC MALFUNC!!"** or **"RTC COMM.NG!"**

- In the TEST items, use ►►I key to move 1→2 or 2→3, use I◄◄ key to move 3→2 or 2→1.
- Use **ENTER/►/❚❚** key to move from TEST items **"1 OLED test"** to TEST function, use **MENU** key to move from TEST function to TEST items **"1 OLED test"**.
- In TEST item **"1 OLED test"**, use ►►I key to move TEST function 1→2→ ··· →6→7, use ►►I key to move TEST function 7→6→ ··· →2→1.
- Use **ENTER/►/❚❚** key to run each test.
- Check visually at the same time, while running TEST function (1~7) of test items **"1 OLED test"**.

- テスト項目の1→2→3の移動は►►Iで行い、3→2→1の移動はI◄◄で行う。
- テスト項目**"1 OLED test"**からテスト機能へ移動するには**ENTER/►/❚❚**キーを押して、テスト機能からテスト項目**"1 OLED test"**へ移動するには**MENU**キーを押す。
- テスト項目**"1 OLED test"**で、テスト機能1→2→・・・→6→7の移動は►►Iで行い、7→6→・・・→2→1の移動はI◄◄で行う。
- 各テストは**ENTER/►/❚❚**キーで実行する。
- テスト項目**"1 OLED test"**で、テスト機能1～7を実行中は、必ず目視での確認も同時に行う。

3. How to exit from test mode

In the above test items, press the ►►I from **"3 RTC test "**, **"Shutdown PWR"** is displayed.

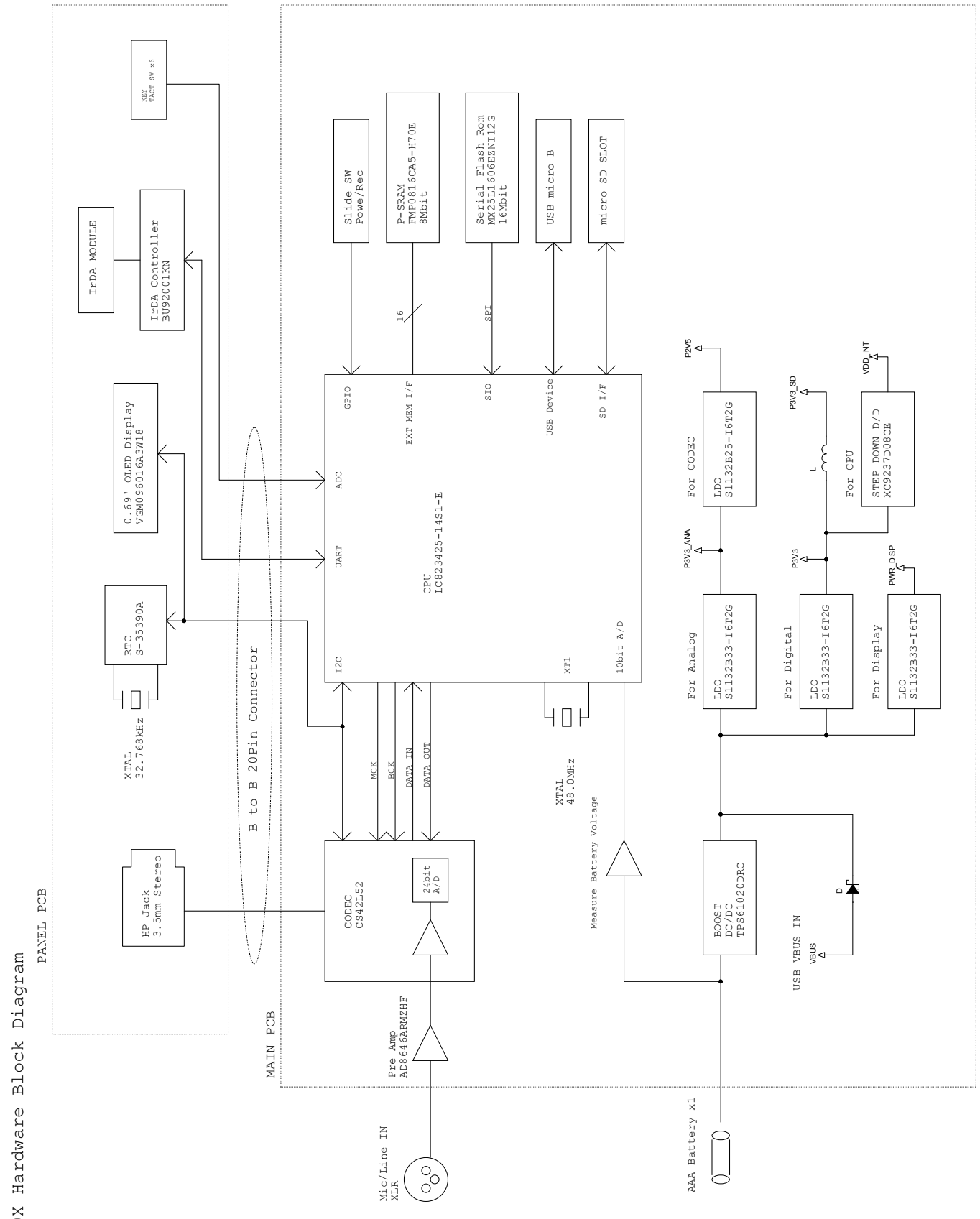
And, the power is turned off by pressing the **ENTER/►/❚❚** key or performing a normal power-off operation, and exit from the test mode.

3. テストモードの終了方法

上記のテスト項目で、**"3 RTC test"**から►►Iを押すと、
"Shutdown PWR"が表示される。
そのときに**ENTER/►/❚❚**キーを押すか通常の電源オフ操作を行うと電源がオフになり、テストモードから出ることができる。

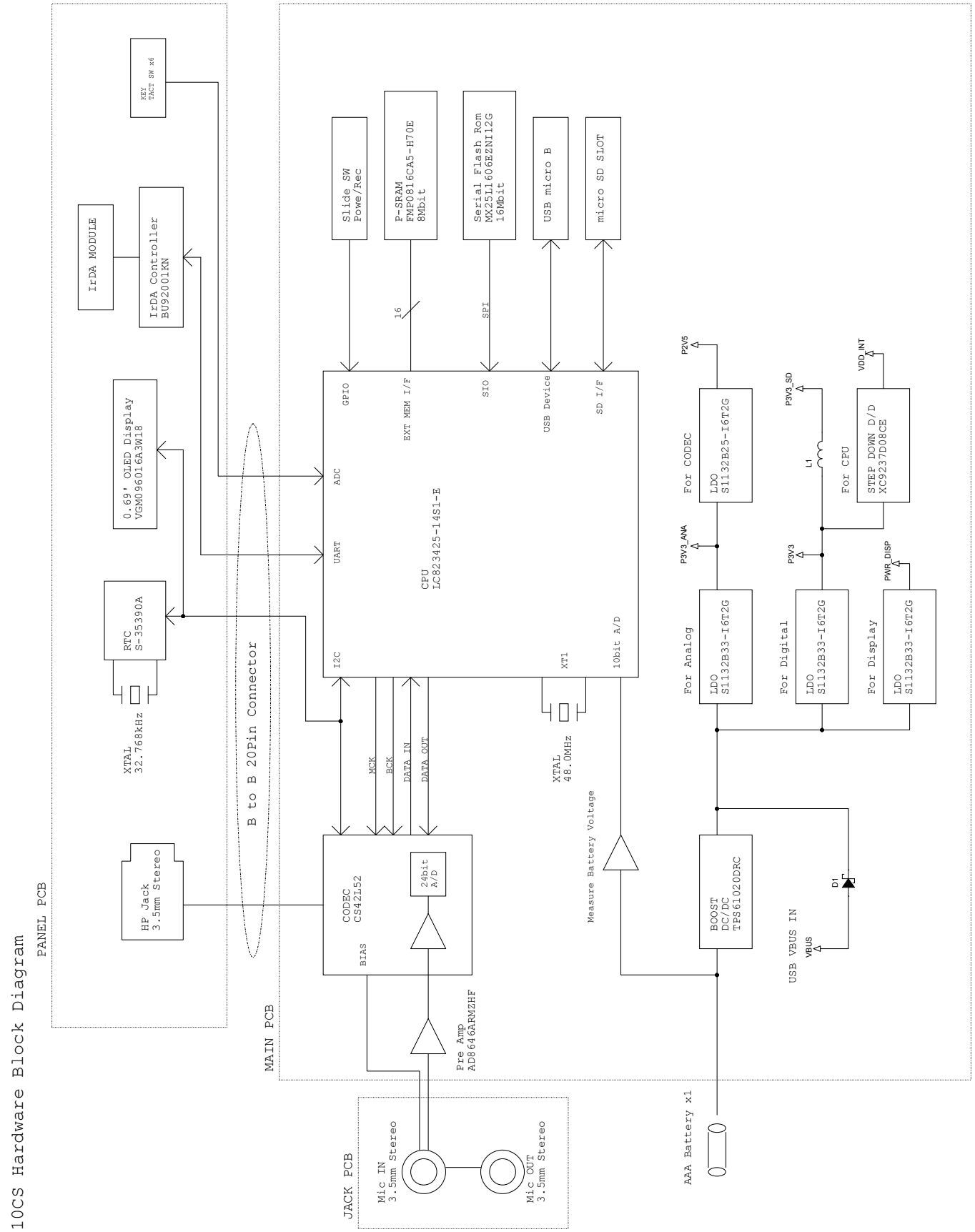
2. Block Diagram (DR-10X)

ブロックダイアグラム (DR-10X)



Block Diagram (DR-10C)

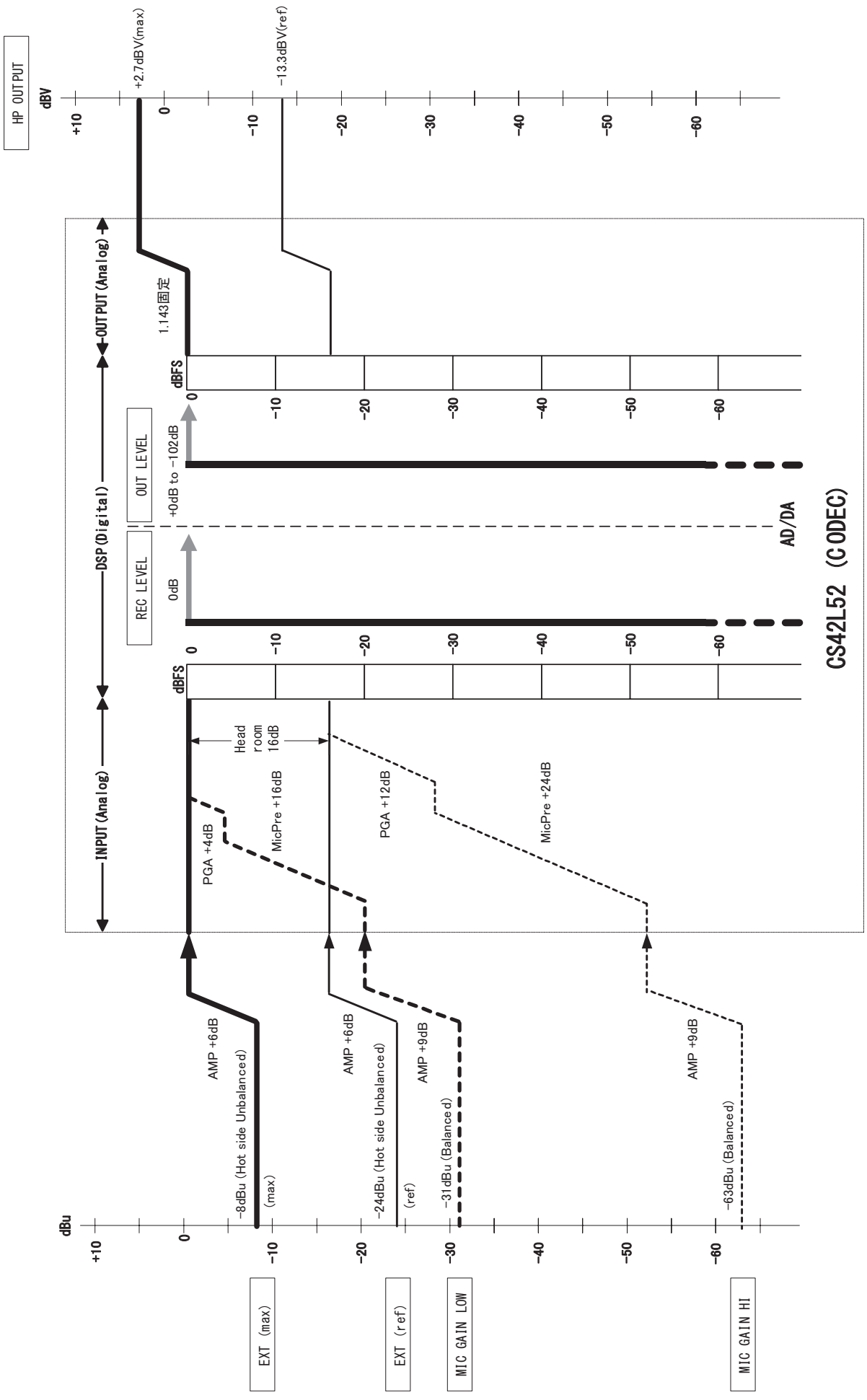
ブロックダイアグラム (DR-10C)



3. Level Diagram (DR-10X)

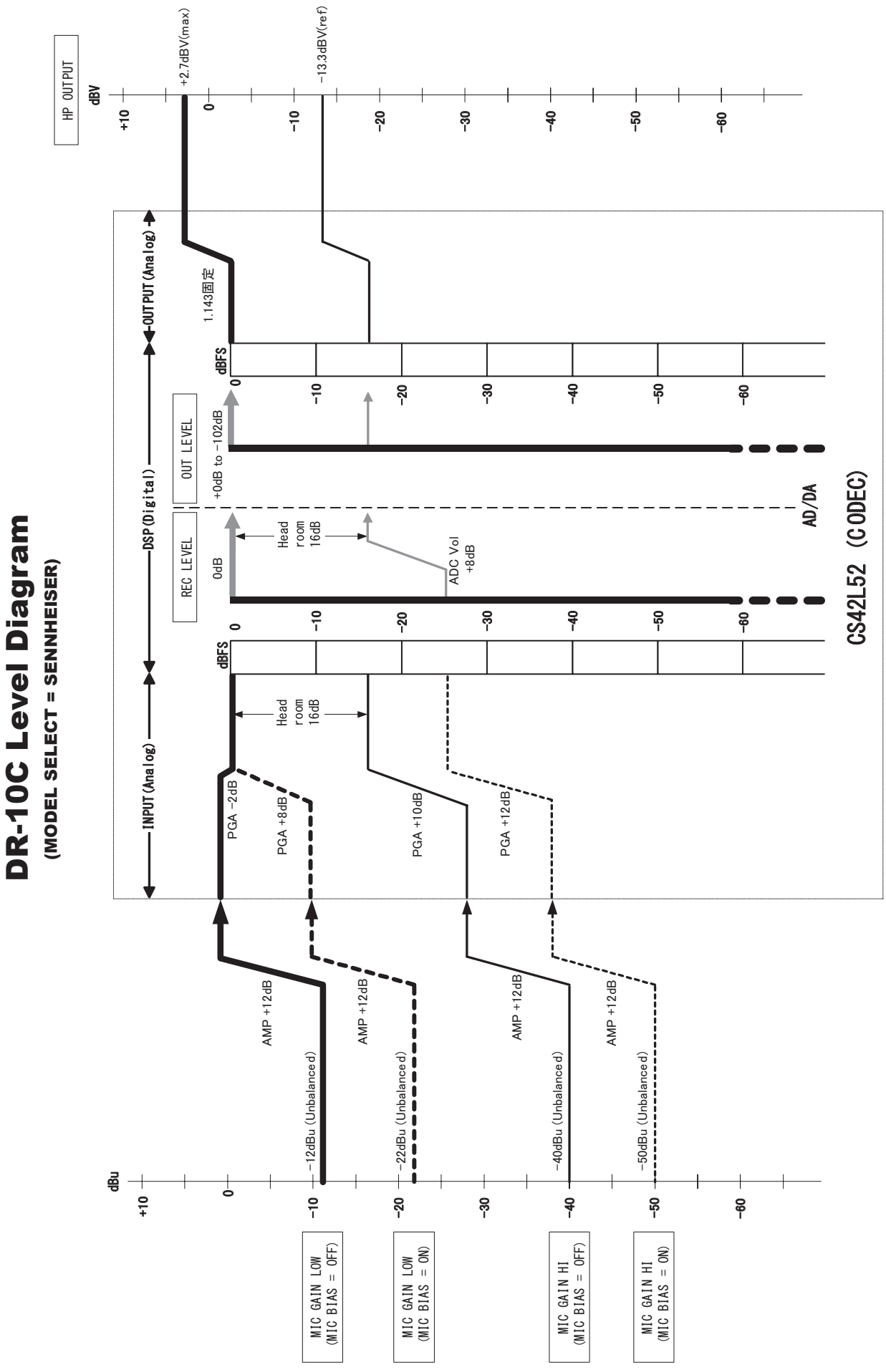
レベルダイアグラム (DR-10X)

DR-10X Level Diagram



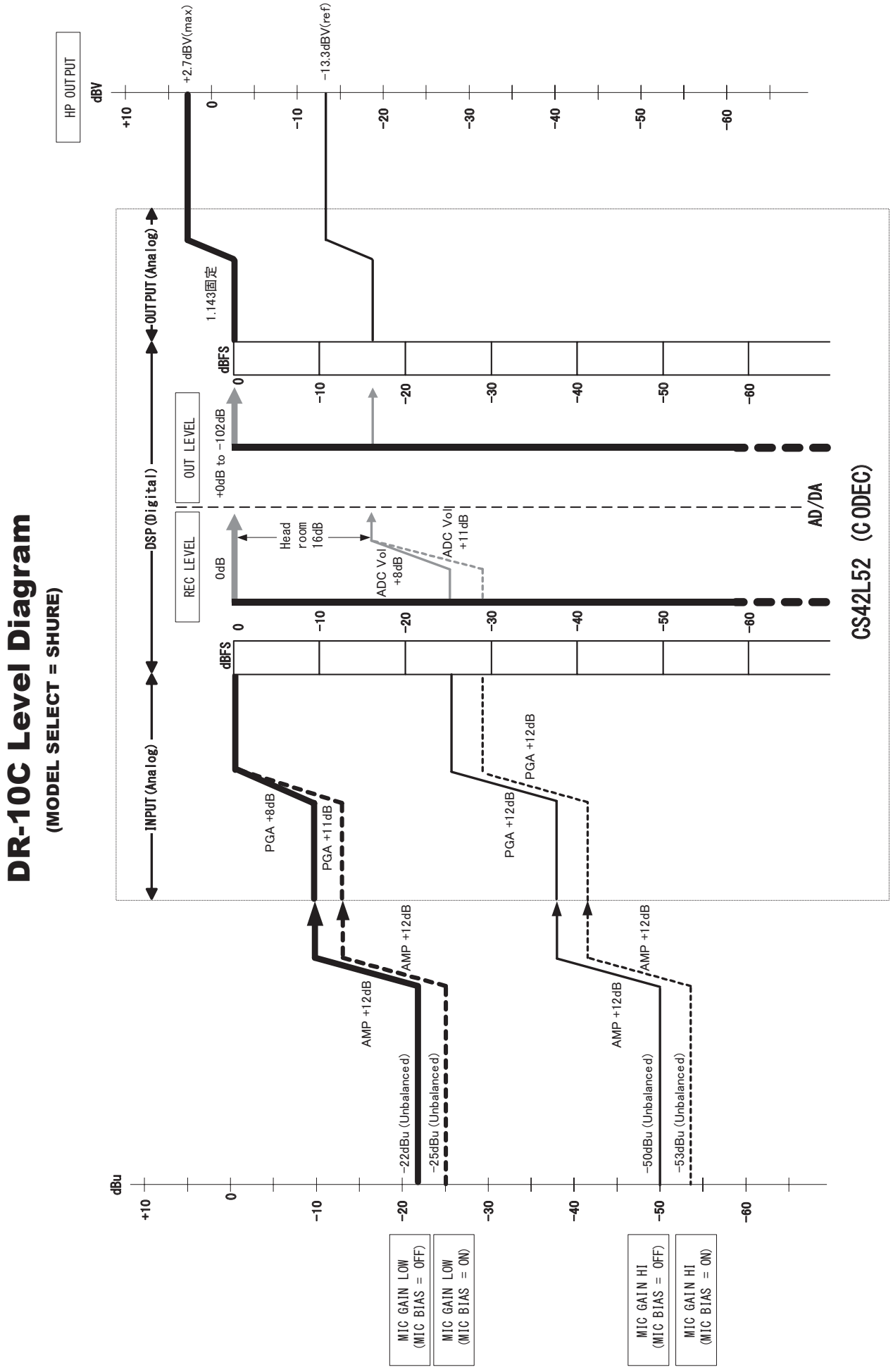
Level Diagram (DR-10C 1/4)

レベルダイアグラム (DR-10C 1/4)



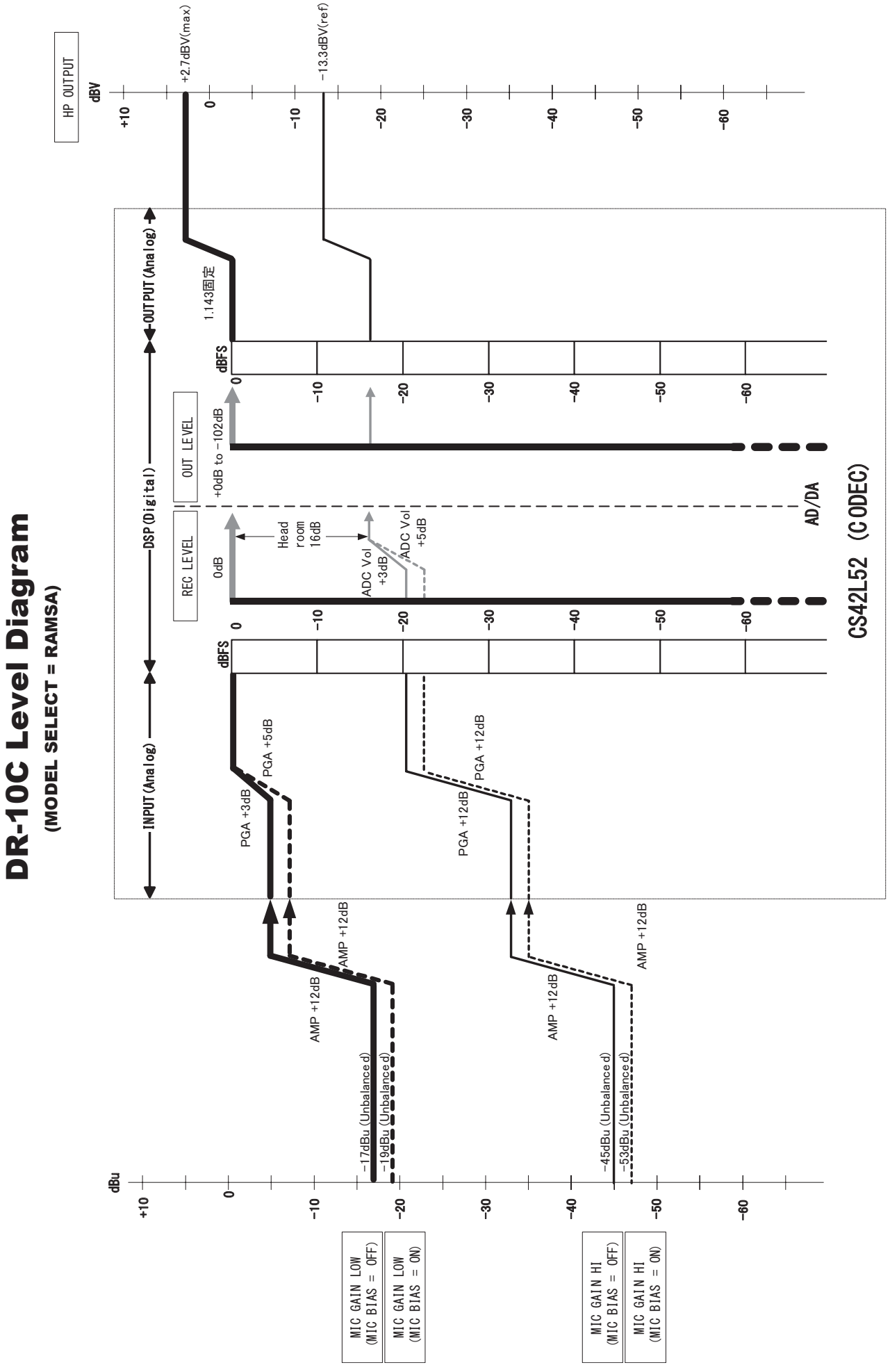
Level Diagram (DR-10C 2/4)

レベルダイアグラム (DR-10C 2/4)



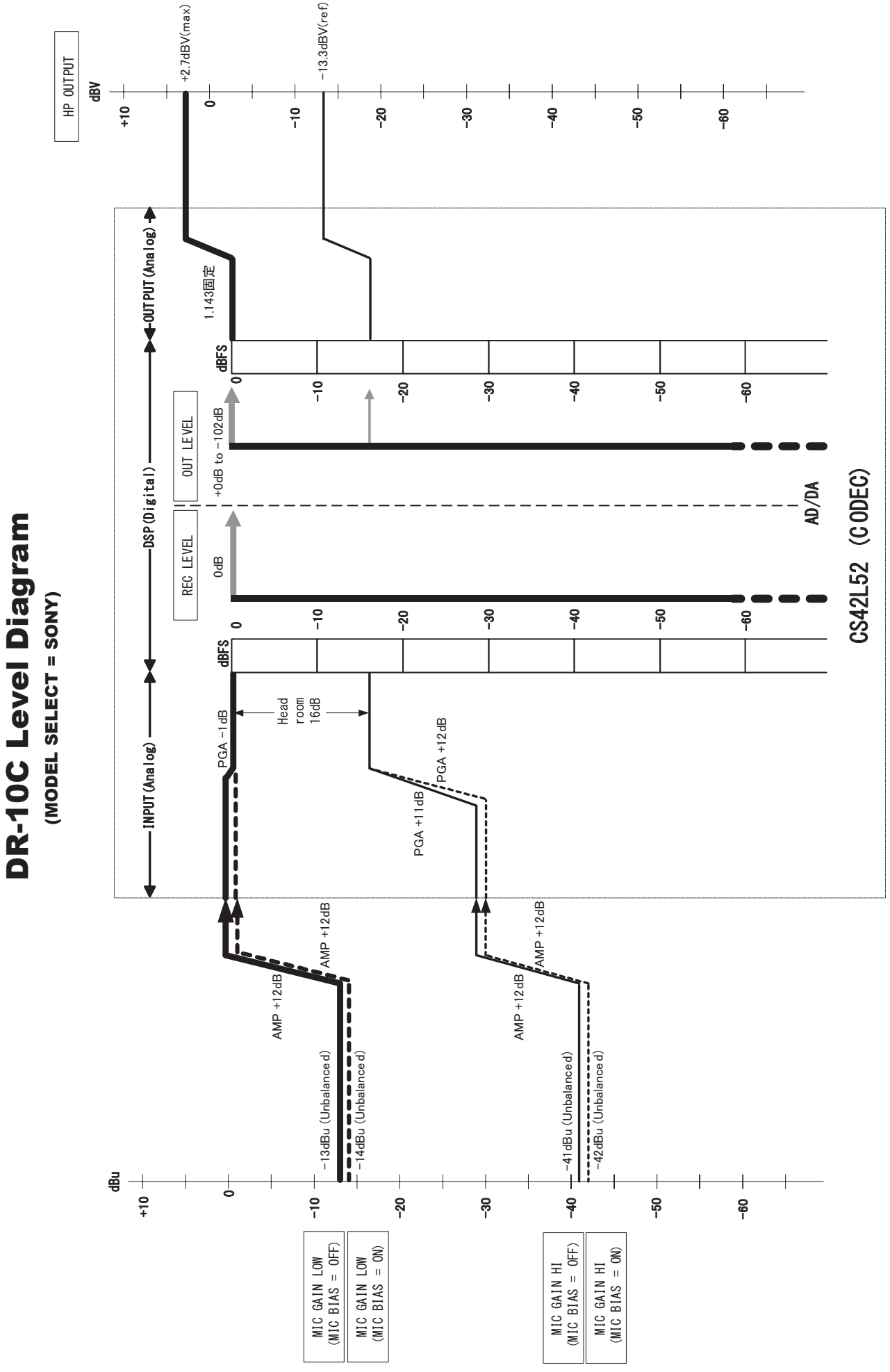
Level Diagram (DR-10C 3/4)

レベルダイアグラム (DR-10C 3/4)



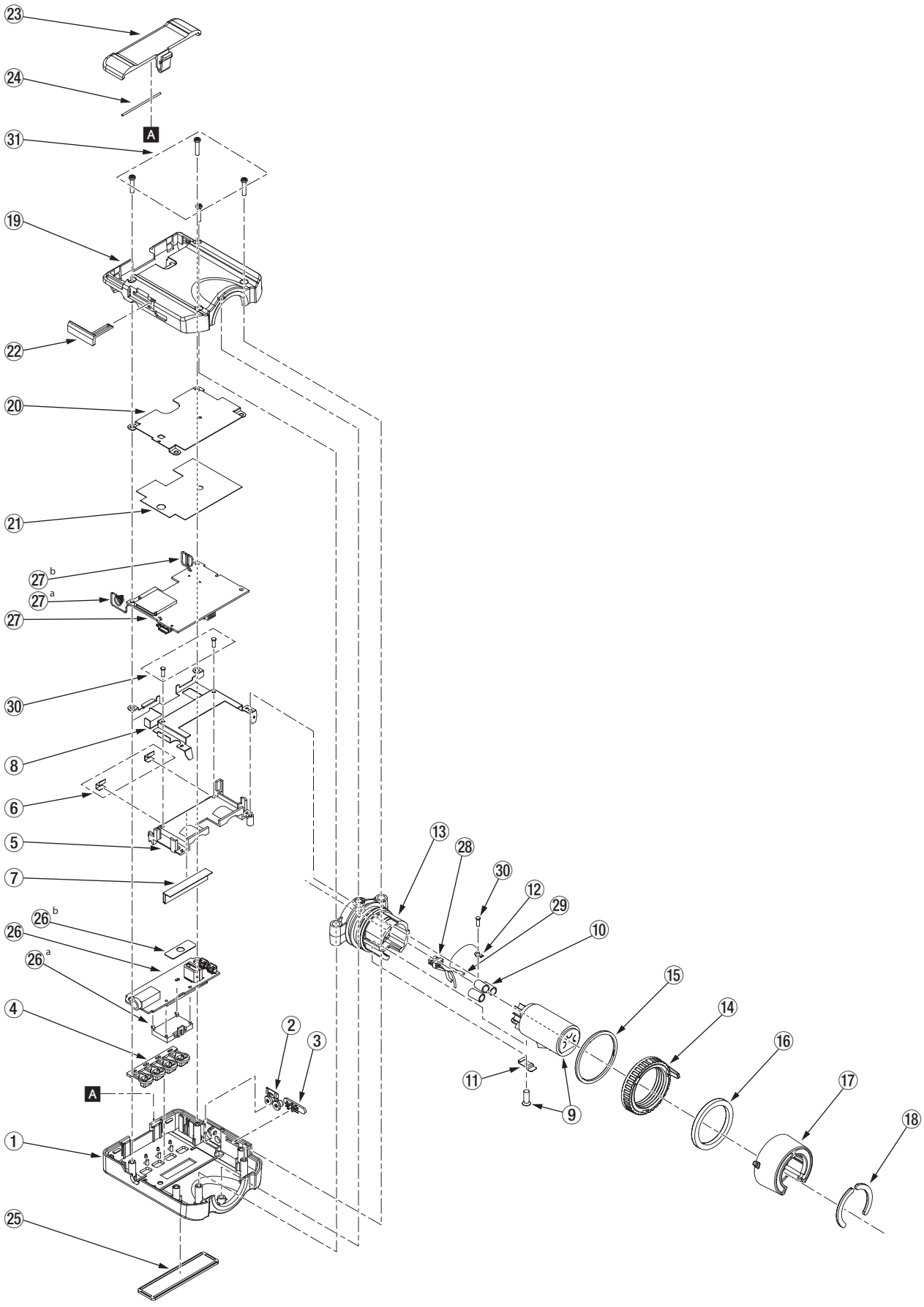
Level Diagram (DR-10C 4/4)

レベルダイアグラム (DR-10C 4/4)



4. Exploded Views and Parts List (DR-10X)

分解図とパーツリスト (DR-10X)



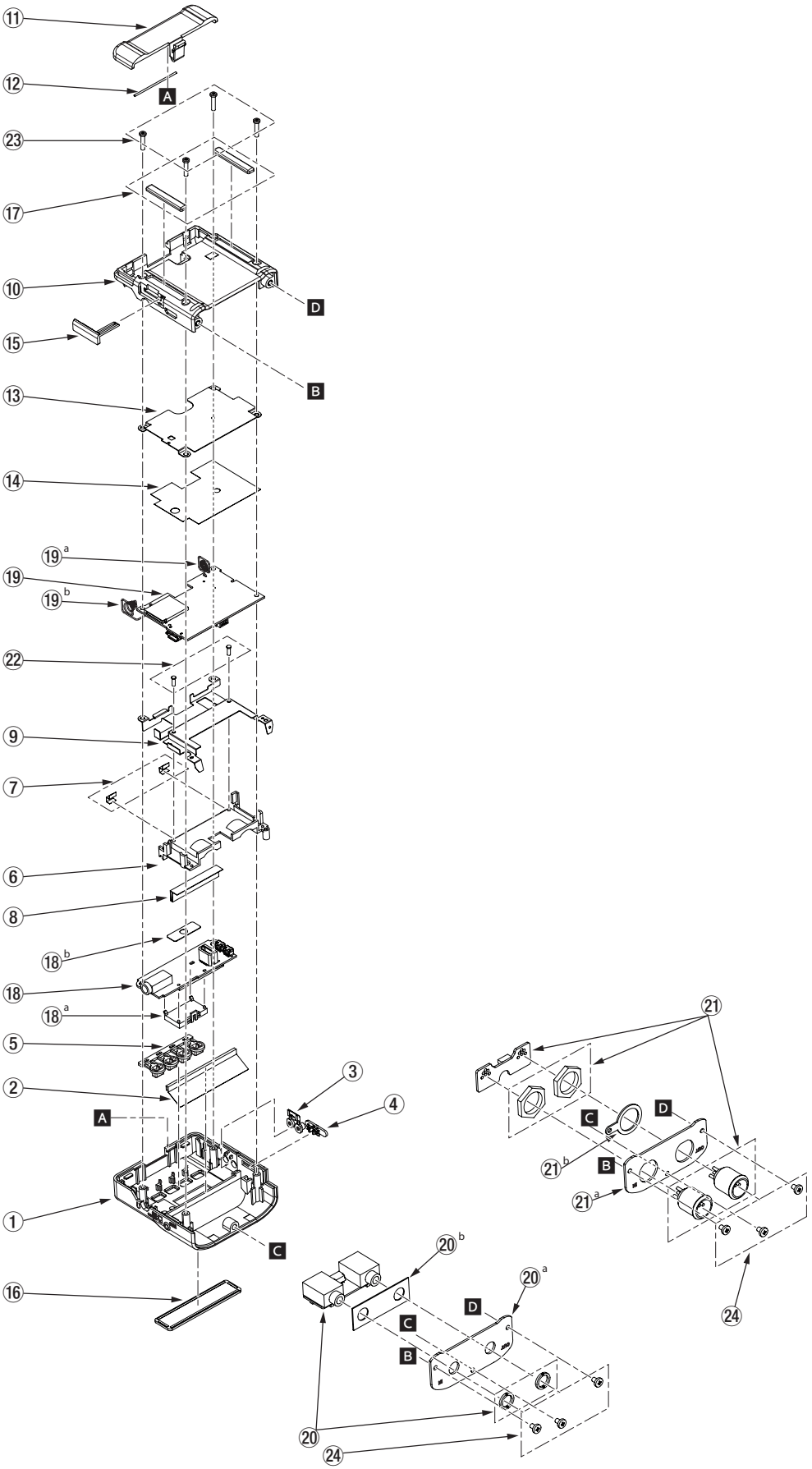
CAUTION Part with numbers in parentheses ( ) cannot be ordered.

注 意 "( )"付き品番は、発注できません。

REF.NO.	PARTS NO.	DESCRIPTION .	Qty.	REMARKS
1	M03710400C	CASE,TOP DR10X G	1	
2	M03721700B	BUTTON,VOL DR10 G	1	
3	M03341100A	KNOB,SLIDE DR40 G	1	
4	M03721800A	BUTTON,TOP DR10 G	1	
5	M03721500C	ESCUTCHEON,INR DR10 G	1	
6	M03557200A	SHEET,GND CU 3.5*9*0.1 G	2	
7	M03748800A	SHEET,GND 15*28 G	1	
8	M03721600D	CHASSIS,CTR DR10 G	1	
9	E02301500A	CONN ASSY,SPF-13C G	1	
10	E01658800A	TUBE,3.5*15MM BLK G	3	
11	M03752100A	SHEET,CU T01*4*16 G	1	
12	M03740500A	LUG TERMINAL,DR10X G	1	
13	M03711100C	BRACKET,SOCKET DR10X G	1	
14	M03711200B	RING,DR10X G	1	
15	M03714300A	RING,RED DR10X G	1	
16	M03760500A	CUSHION,260*203 DR10X G	1	
17	M03711300C	BRACKET,MIC DR10X G	1	
18	M03711400A	CUSHION,MIC DR10X G	2	
19	M03711500B	CASE,BOTTOM DR10X G	1	
20	M03723000A	CHASSIS,BTM DR10C G	1	
21	M03776000A	SHEET,BTM DR10 G	1	
22	M03722000B	COVER,SD DR10 G	1	
23	M03721900C	COVER,BAT LID DR10 G	1	
24	M03723600A	SHAFT,COVER LID DR10 G	1	
25	M03722200C	WINDOW,DR10 G	1	
26	E95521000A	PCB ASSY,PANEL DR10 G	1	See "GATHER PCB, PANEL DR10 G" on page 20
26a	(M03722100B)	BRACKET,OLED DR10 G	1	
26b	(M02973400A)	SHEET,SLIDE 3POINT DR100	1	
27	E95521800A	PCB ASSY,MAIN DR10X G	1	See "GATHER PCB, MAIN DR10 G" on page 20
27a	(M03722400B)	CPRSN SPR,BAT P DR10 G	1	
27b	(M03722500B)	CPRSN SPR,BAT M DR10 G	1	
28	E02292000A	HARNESS ASSY,DR10X G	1	
29	E02302300A	WIRE,#28 L42 G	1	
30	B00326000A	SCREW,MPBR 1.4*4FZB G	2	
31	B00334100A	SCREW,MPPR 1.7*8 FZB G	4	

Exploded Views and Parts List (DR-10C)

分解図とパーツリスト (DR-10C)



CAUTION Part with numbers in parentheses ( ) cannot be ordered.

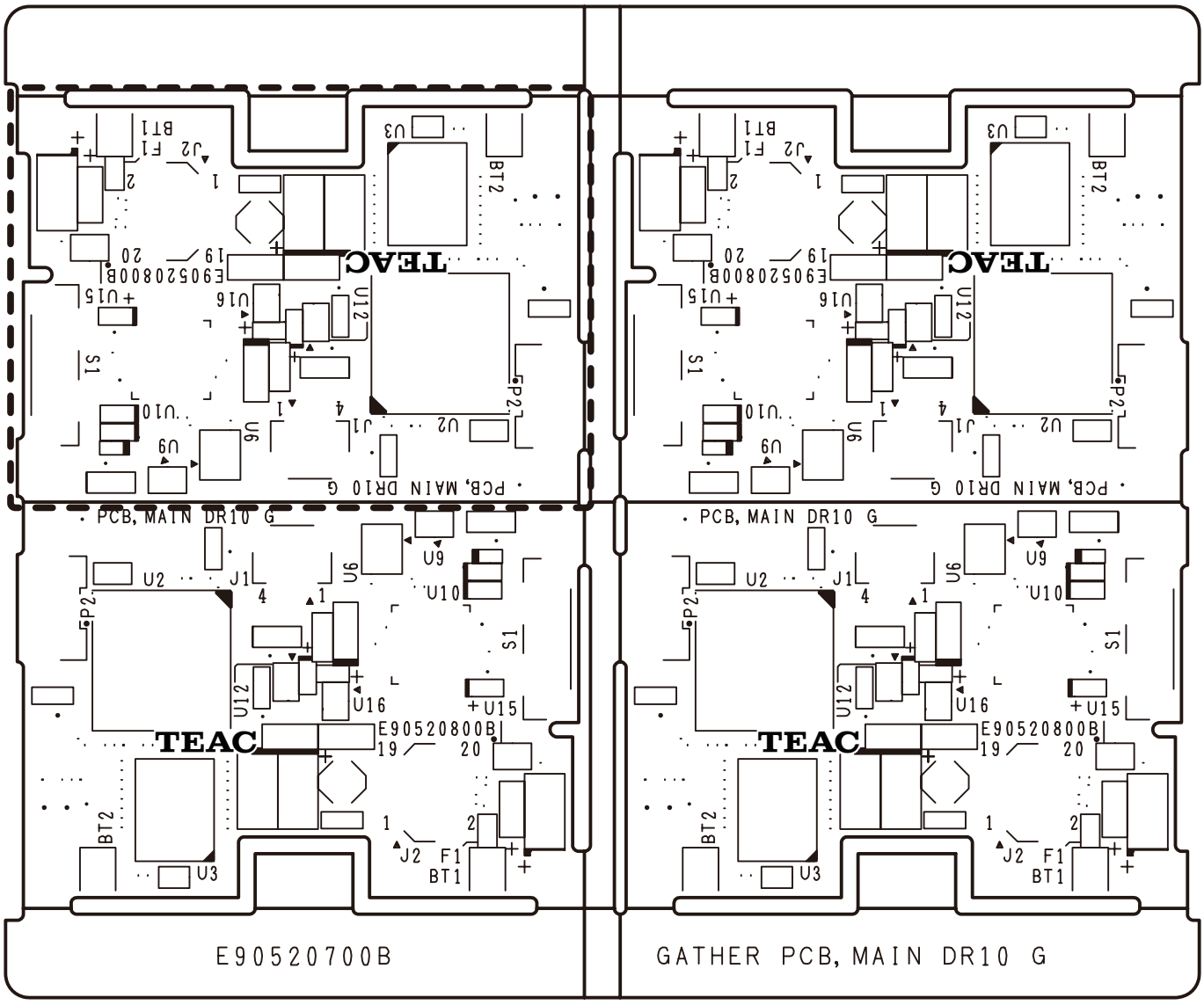
注 意 "( )"付き品番は、発注できません。

REF.NO.	PARTS NO.	DESCRIPTION .	Qty.	REMARKS
1	M03721300B	CASE,TOP DR10C G	1	
2	M03748700A	SHEET,GND 15*41.5 G	1	
3	M03721700B	BUTTON,VOL DR10 G	1	
4	M03341100A	KNOB,SLIDE DR40 G	1	
5	M03721800A	BUTTON,TOP DR10 G	1	
6	M03721500C	ESCUTCHEON,INR DR10 G	1	
7	M03557200A	SHEET,GND CU 3.5*9*0.1 G	2	
8	M03748800A	SHEET,GND 15*28 G	1	
9	M03721600D	CHASSIS,CTR DR10 G	1	
10	M03721400C	CASE,BTM DR10C G	1	
11	M03721900C	COVER,BAT LID DR10 G	1	
12	M03723600A	SHAFT,COVER LID DR10 G	1	
13	M03723000A	CHASSIS,BTM DR10C G	1	
14	M03776000A	SHEET,BTM DR10 G	1	
15	M03722000B	COVER,SD DR10 G	1	
16	M03722200C	WINDOW,DR10 G	1	
17	M03723200A	FOOT,RUBBER DR10 G	2	
18	E95521000A	PCB ASSY,PANEL DR10 G	1	See "GATHER PCB, PANEL DR10 G" on page 20
18a	M03722100B	BRACKET,OLED DR10 G	1	This part is included in E95521000A.
18b	M02973400A	SHEET,SLIDE 3POINT DR100	1	This part is included in E95521000A.
19	E95520800A	PCB ASSY,MAIN DR10C G	1	See "GATHER PCB, MAIN DR10 G" on page 20
19a	M03722400B	CPRSN SPR,BAT P DR10 G	1	This part is included in E95520800A.
19b	M03722500B	CPRSN SPR,BAT M DR10 G	1	This part is included in E95520800A.
20	(E95521200A)	PCBA,JACK 3.5MM DR10 G	1	DR-10CS Only, See "GA PCB, JACK DR10 G" on page 20
20a	(M03722800C)	BRACKET,3.5MM DR10C G	1	DR-10CS Only, This part is included in E95521200A.
20b	(M03767300A)	SHEET,GND 12*34 G	1	DR-10CS Only, This part is included in E95521200A.
21	(E95523100A)	PCBA,JACK MXLR4 DR10 G	1	DR-10CH Only, See "GA PCB, JACK DR10 G" on page 20
21a	(M03722700B)	BRACKET,MXLR DR10C G	1	DR-10CH Only, This part is included in E95523100A.
21b	(M0375520)	LUG,GND-24	1	DR-10CH Only, This part is included in E95523100A.
22	B00326000A	SCREW,MPBR 1.4*4FZB G	2	
23	B00334100A	SCREW,MPPR 1.7*8 FZB G	4	
24	B00171203A	SCREW,BP 2*3 FZB G	3	

5. PC Boards and Parts List

基板図とパーツリスト

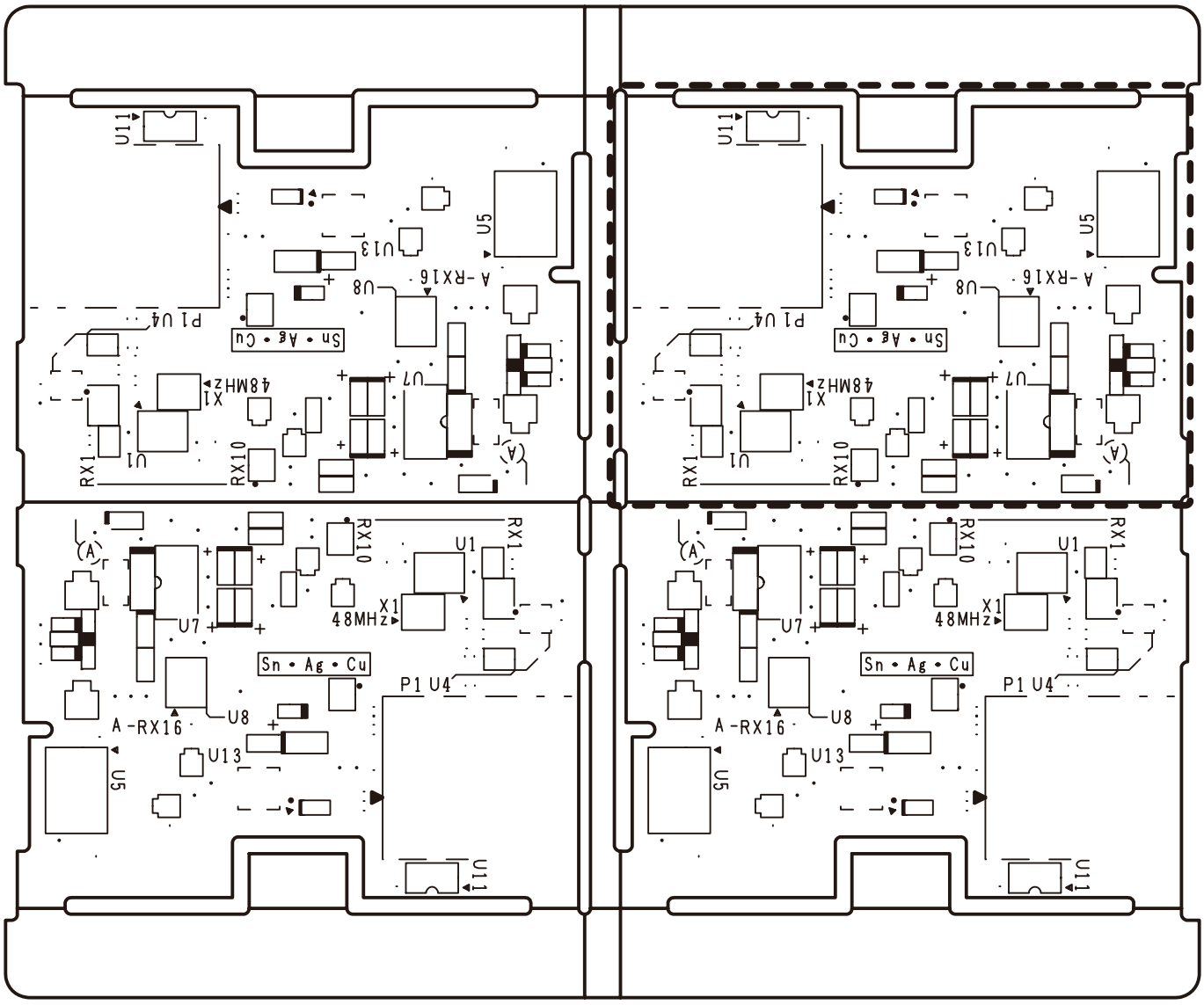
GATHER PCB,MAIN DR10 G (Side A)



CAUTION The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

注意 破線部分は、太字品番で発注する補修部品になります。

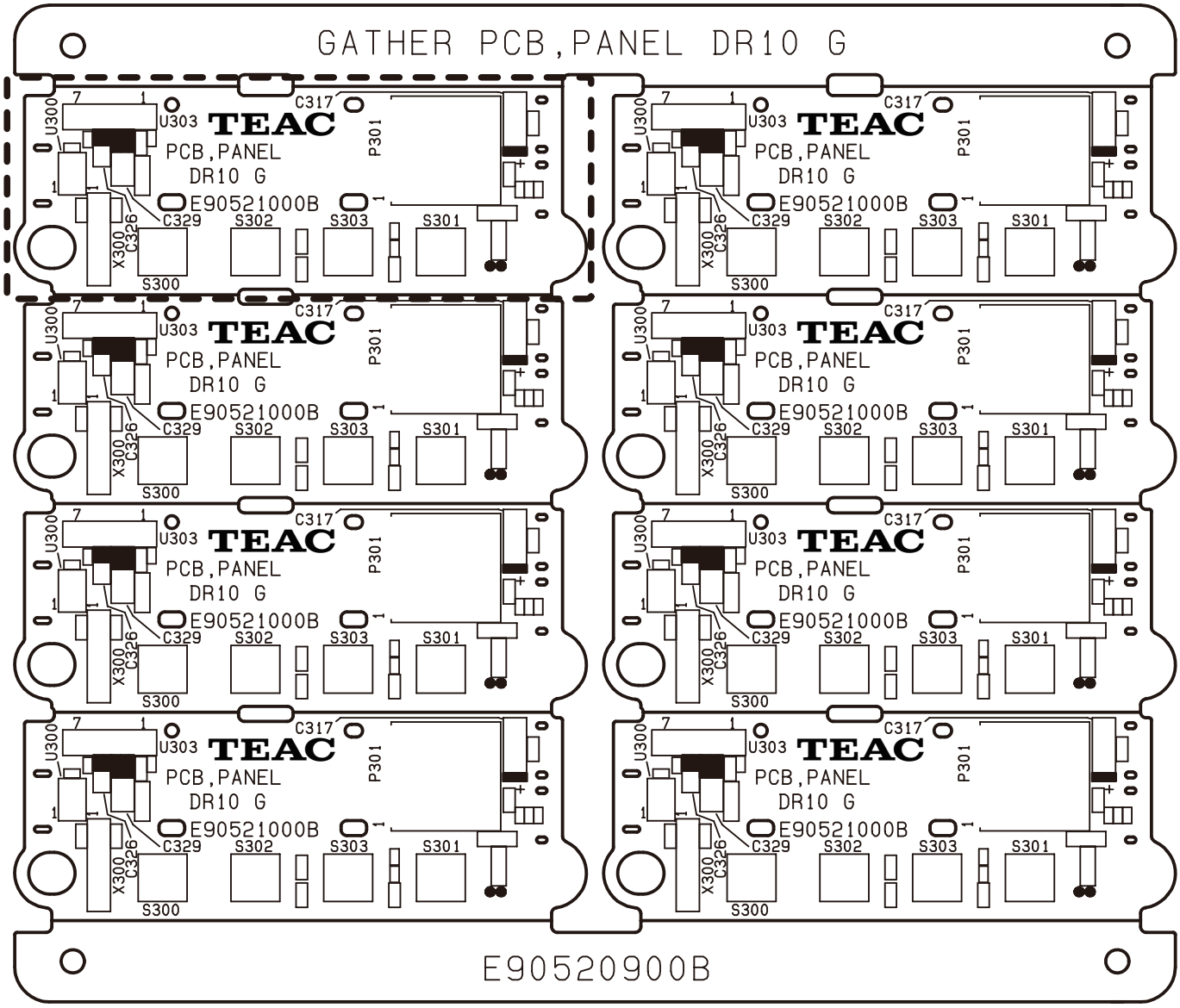
GATHER PCB,MAIN DR10 G (Side B)



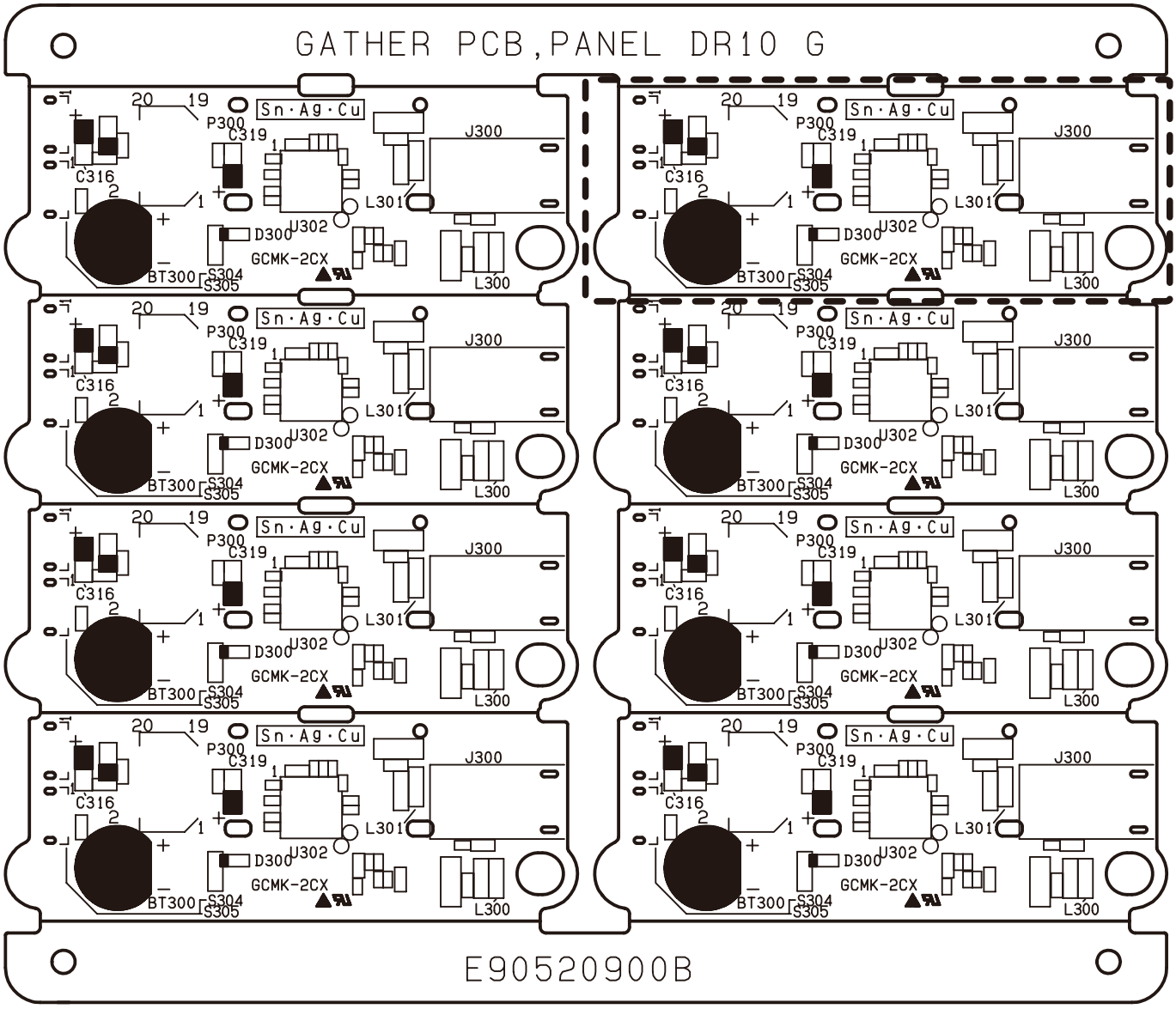
CAUTION The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

注意 破線部分は、太字品番で発注する補修部品になります。

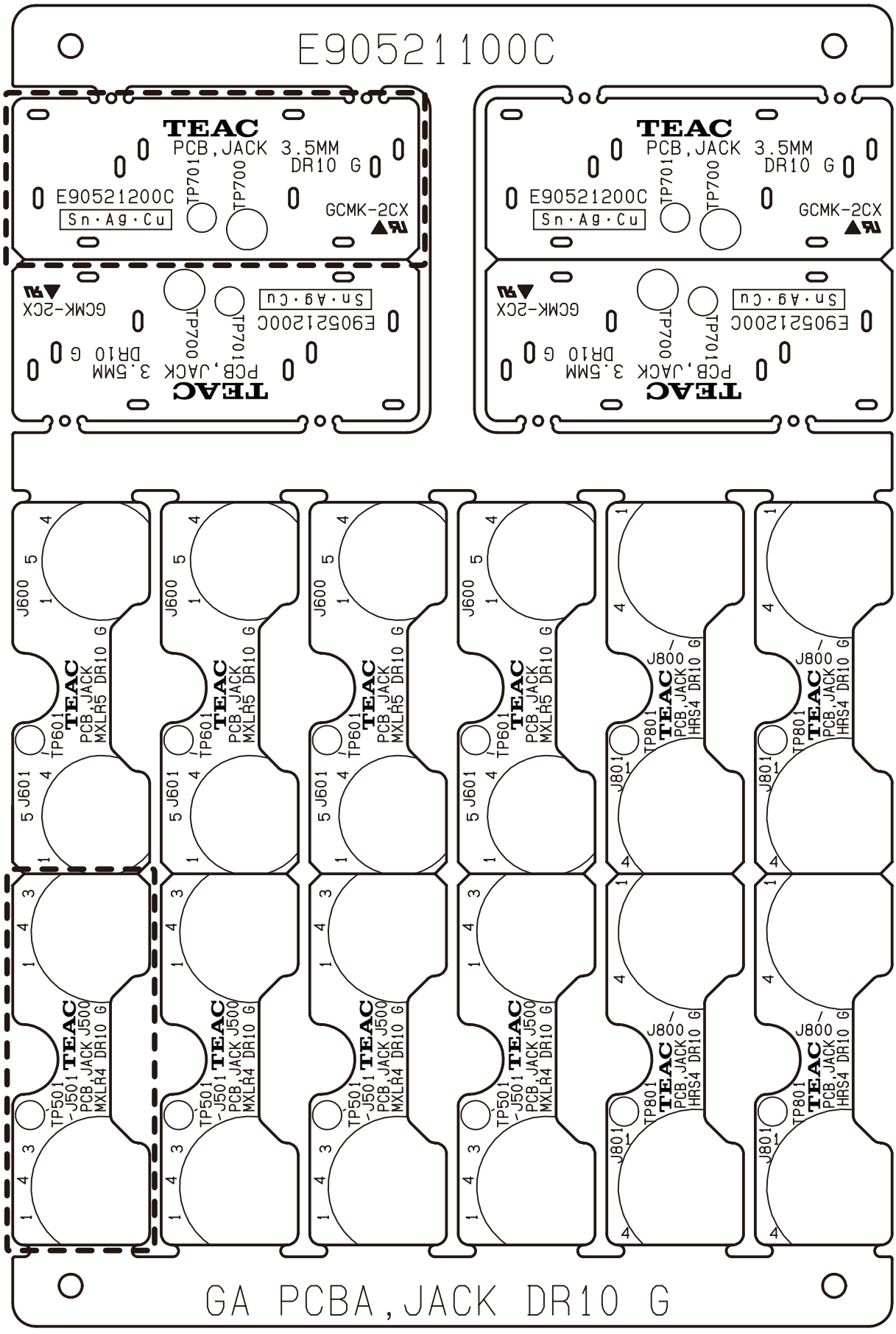
GATHER PCB,PANEL DR10 G (Side A)



GATHER PCB,PANEL DR10 G (Side B)



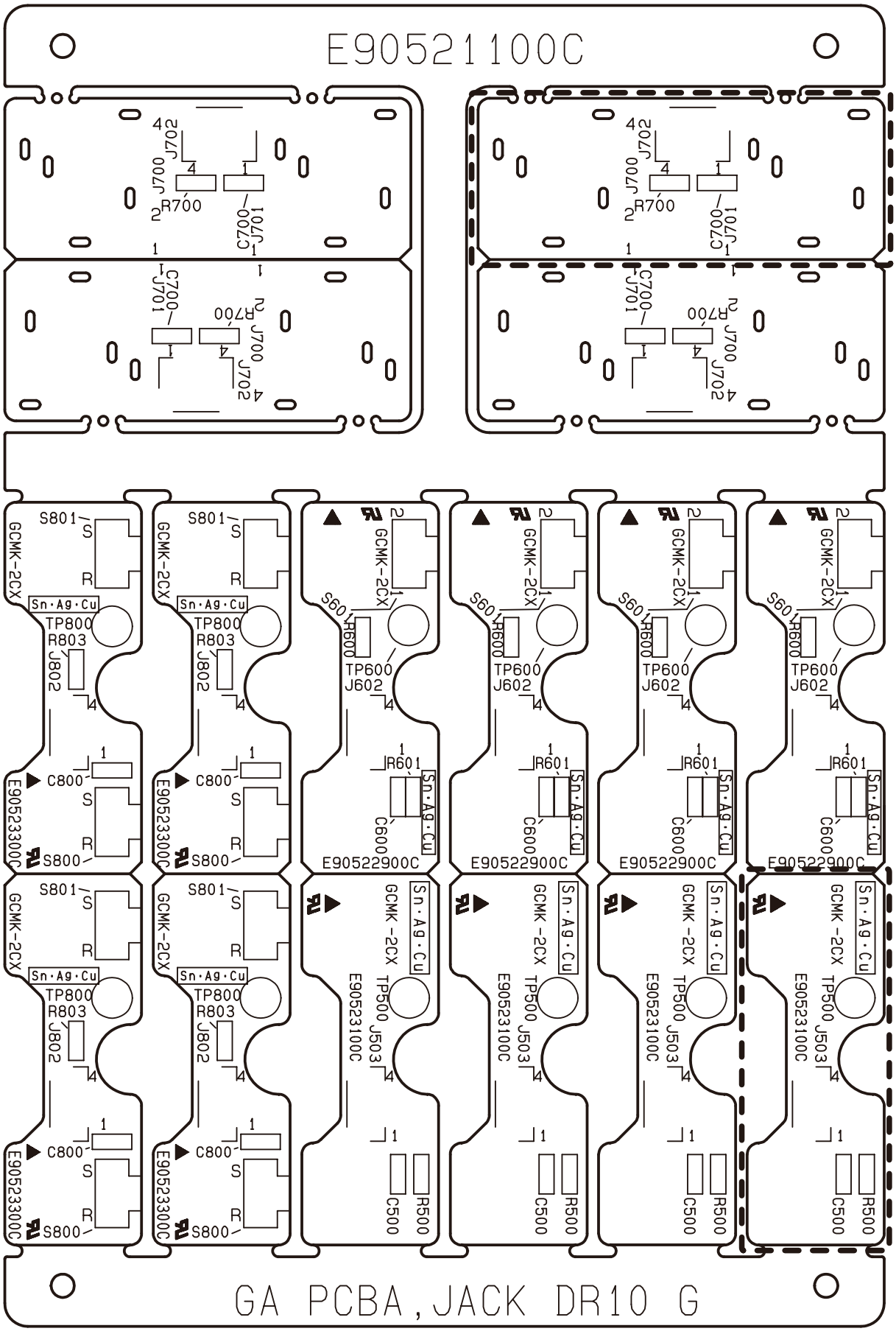
GA PCB,JACK DR10 G (Side A)



CAUTION The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

注意 破線部分は、太字品番で発注する補修部品になります。

GA PCB,JACK DR10 G (Side B)



CAUTION Part with numbers in parentheses ( ) cannot be ordered. If you want to order service parts, be sure to use "Child" part numbers (numbers in Bold), which refer to individual parts of a parent part.

注 意 "( )" 付き品番は、発注できません。補修部品を発注する際は、太字品番で発注してください。

GATHER PCB, MAIN DR10 G
メイン 基板

PARTS NO.	DESCRIPTION.	REMARKS
E95521800A	PCB ASSY,MAIN DR10X G	DR-10X
(E95521700A)	GATHER PCBA,MAIN DR10X G	DR-10X, [JPN], [KOR], [EUR], [UK], [AUS], [TM], [EX/BR],[EX/T/C]
(E95521754A)	GA PCBA,MAIN DR10X CHI G	DR-10X, [CHI]
E95520800A	PCB ASSY,MAIN DR10C G	DR-10C
(E95520700A)	GATHER PCBA,MAIN DR10C G	DR-10C

GATHER PCB, PANEL DR10 G
パネル 基板

PARTS NO.	DESCRIPTION.	REMARKS
E95521000A	PCB ASSY,PANEL DR10 G	
(E95520900A)	GATHER PCBA,PANEL DR10 G	[JPN], [KOR], [EUR], [UK], [AUS], [TM], [EX/BR],[EX/T/C]
(E95520954A)	GA PCBA,PANEL DR10 CHI G	[CHI]

GA PCB, JACK DR10 G
パネル 基板

PARTS NO.	DESCRIPTION.	REMARKS
E95521200A	PCBA,JACK 3.5MM DR10 G	DR-10CS
(E95521100A)	GATHER PCBA,JACK 3.5MM DR10 G	DR-10CS
E95523100A	PCBA,JACK MXLR4 DR10 G	DR-10CH
(E95523000A)	GA PCBA,JACK MXLR4 DR10 G	DR-10CH

6. Safety parts
安全部品

Items

REF.NO.	PARTS NO.	DESCRIPTION.	QTY	REMARKS
F1	**E0178564**	FUSE,ERBRE2R00V G	1	⚠

7. Included Accessories

付属品

Included Accessories

REF.NO.	PARTS NO.	DESCRIPTION .	REMARKS
	D01236200A	OWNERS MNL,MULTI DR10X G	DR-10X, [JPN], [KOR], [EUR], [UK], [AUS], [TM], [EX/BR],[EX/T/C]
	D01236254A	OWNERS MNL,CHI DR10X G	DR-10X, [CHI]
	D01241500B	OWNERS MNL,MULTI DR10C G	DR-10C
	D01260700A	SHEET,MULTI DR10CH	DR-10CH
	E02304700A	CABLE ASSY,MICROUSB 05M G	
	E02286800A	CABLE ASSY,3.5MM DR10C G	DR-10C
	M03722300B	HOLDER,BELT DR10C G	DR-10C
	M03656800B	BAND,COMBINE 47 CIM G	DR-10C
	M03729300A	CALLYNG CASE,DR10C G	DR-10C

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.**

  [JPN] : JAPAN [T/C] : U.S.A./CANADA [KOR] : KOREA
  [EUR] : EUROPE [UK] : U.K.
  [AUS] : AUSTRALIA [TM] :TAIWAN
  [CHI] : CHINA [EX/BR] : BRAZIL
  [EX/T/C] : 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。**
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- **仕向先**

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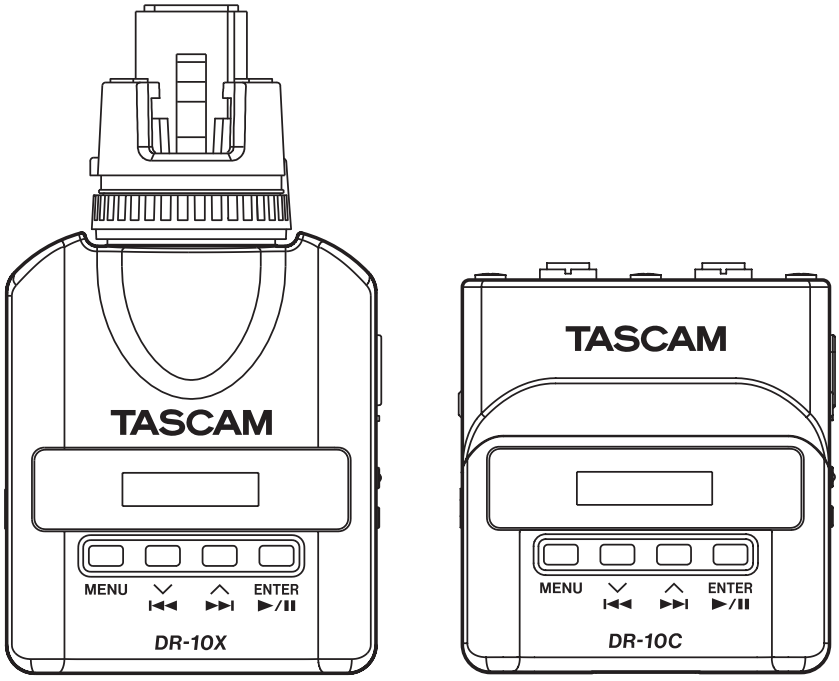
  [EX/T/C] : U.S.A./CANADA/SOUTH AMERICA

TASCAM

SERVICE MANUAL

DR-10X/10C

Compact Linear PCM Recorder



Exploded Views and Parts List

INSTRUCTIONS FOR SERVICE PERSONNEL

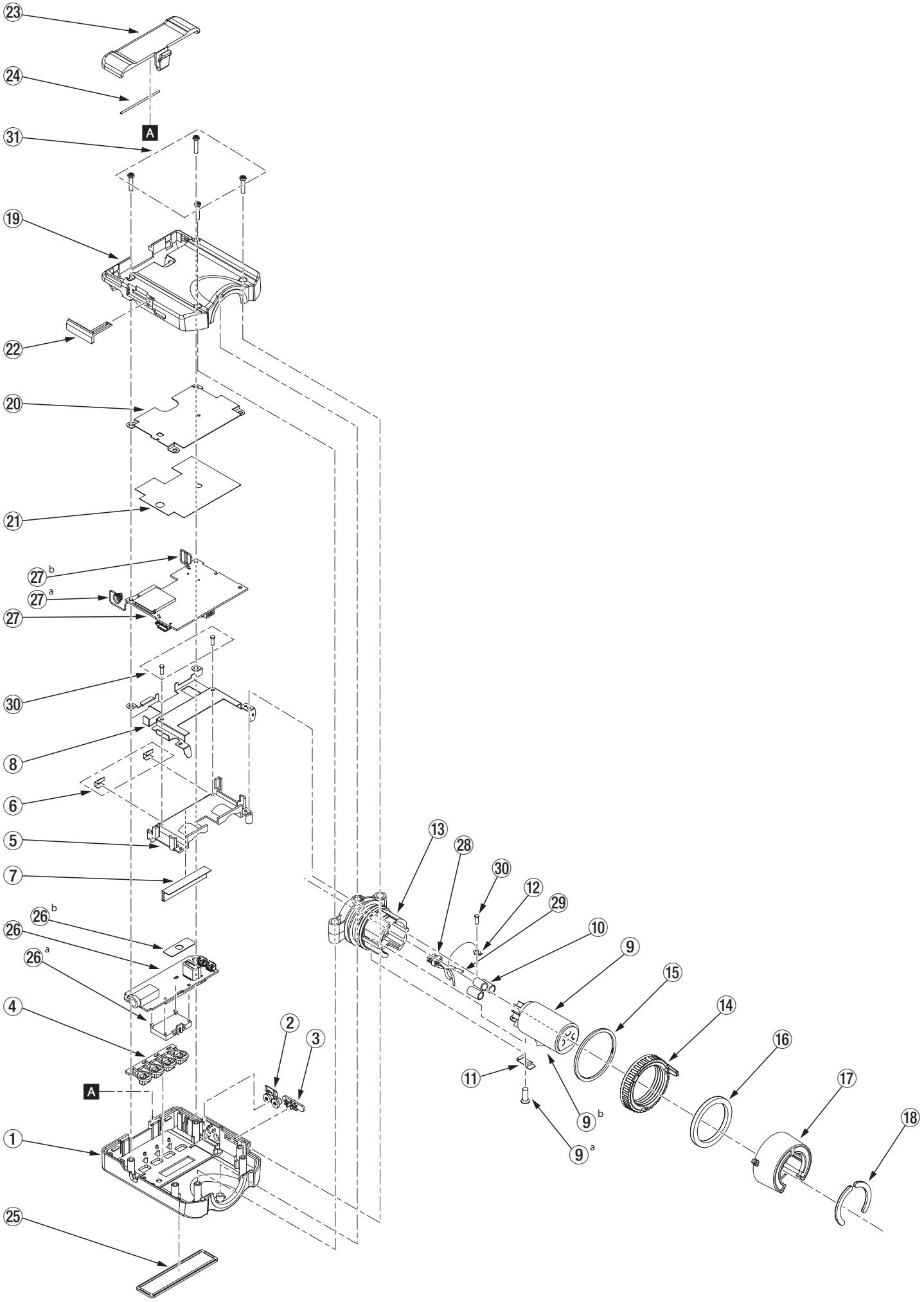
BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

Effective : Apr, 2015

S-0272

Exploded Views and Parts List (DR-10X)

分解図とパーツリスト（DR-10X）



CAUTION Part with numbers in parentheses ( ) cannot be ordered.
注 意 "( )"付き品番は、発注できません。

REF.NO.	PARTS NO.	DESCRIPTION	QTY.	REMARKS
1	M03710400C	CASE,TOP DR10X G	1	
2	M03721700B	BUTTON,VOL DR10 G	1	
3	M03341100A	KNOB,SLIDE DR40 G	1	
4	M03721800A	BUTTON,TOP DR10 G	1	
5	M03721500C	ESCUTCHEON,INR DR10 G	1	
6	M03557200A	SHEET,GND CU 3.5*9*0.1 G	2	
7	M03748800A	SHEET,GND 15*28 G	1	
8	M03721600D	CHASSIS,CTR DR10 G	1	
9	E02301500A	CONN ASSY,SPF-13C G	1	
10	E01658800A	TUBE,3.5*15MM BLK G	3	*1
11	M03752100A	SHEET,CU T01*4*16 G	1	
12	M03740500A	LUG TERMINAL,DR10X G	1	
13	M03711100C	BRACKET,SOCKET DR10X G	1	
14	M03711200B	RING,DR10X G	1	
15	M03714300A	RING,RED DR10X G	1	
16	M03760500A	CUSHION,260*203 DR10X G	1	
17	M03711300C	BRACKET,MIC DR10X G	1	
18	M03711400A	CUSHION,MIC DR10X G	2	
19	M03711500B	CASE,BOTTOM DR10X G	1	
20	M03723000A	CHASSIS,BTM DR10C G	1	
21	M03776000A	SHEET,BTM DR10 G	1	
22	M03722000B	COVER,SD DR10 G	1	
23	M03721900C	COVER,BAT LID DR10 G	1	
24	M03723600A	SHAFT,COVER LID DR10 G	1	
25	M03722200C	WINDOW,DR10 G	1	
26	E95521000A	PCB ASSY,PANEL DR10 G	1	
26a	(M03722100B)	BRACKET,OLED DR10 G	1	
26b	(M02973400A)	SHEET,SLIDE 3POINT DR100	1	
27	E95521800A	PCB ASSY,MAIN DR10X G	1	
27a	(M03722400B)	CPRSN SPR,BAT P DR10 G	1	
27b	(M03722500B)	CPRSN SPR,BAT M DR10 G	1	
28	E02292000A	HARNESS ASSY,DR10X G	1	*1
29	E02302300A	WIRE,#28 L42 G	1	*1
30	B00326000A	SCREW,MPBR 1.4*4FZB G	2	
31	B00334100A	SCREW,MPPR 1.7*8 FZB G	4	

*1: These cannot be ordered individually, because these are assy.

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REF.NO.	PARTS NO.	DESCRIPTION	QTY.	REMARKS

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.**
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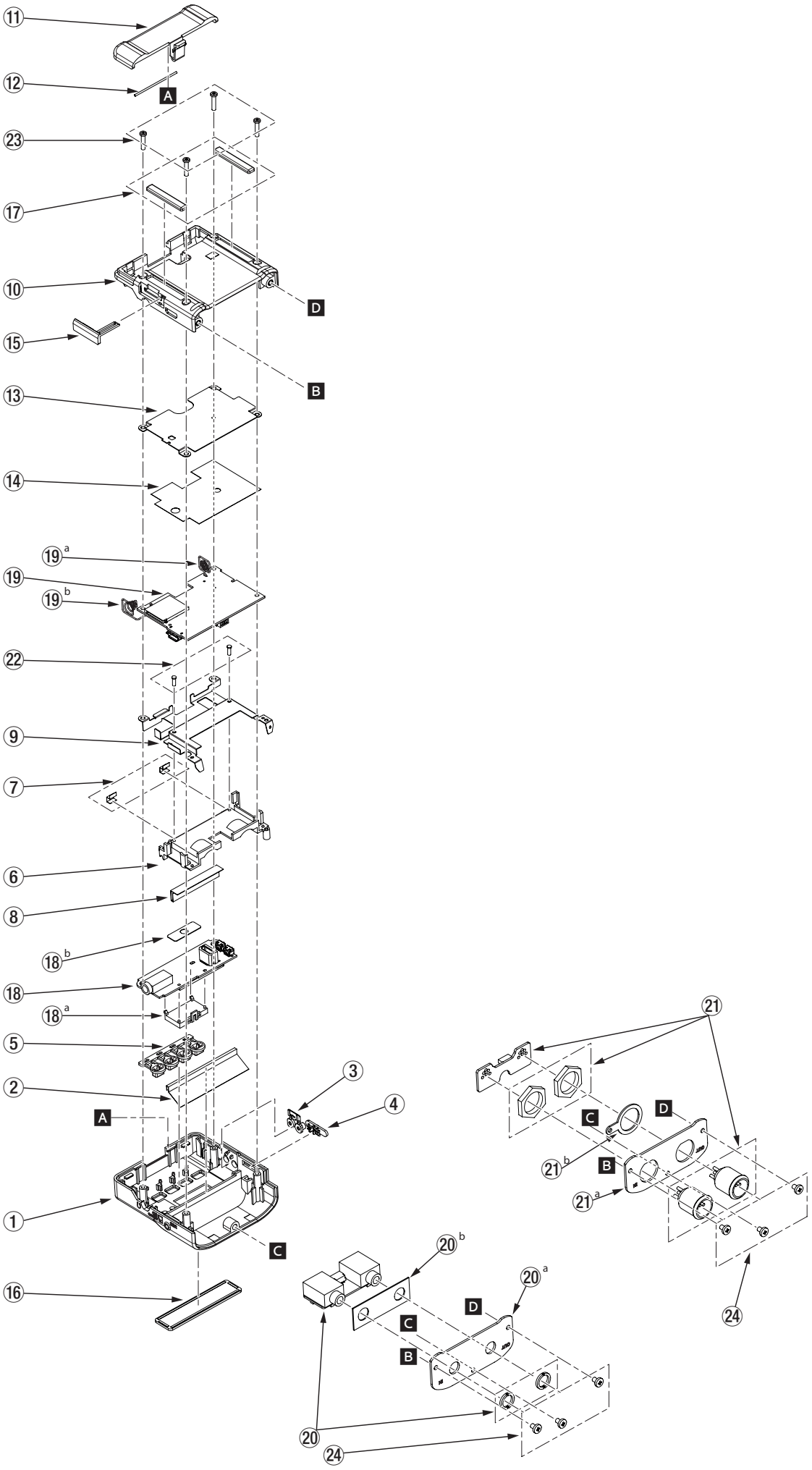
Exploded Views and Parts List (DR-10C)

分解図とパーツリスト（DR-10C）



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注 意 "( )"付き品番は、発注できません。

REF.NO.	PARTS NO.	DESCRIPTION	QTY.	REMARKS
1	M03721300B	CASE,TOP DR10C G	1	
2	M03748700A	SHEET,GND 15*41.5 G	1	
3	M03721700B	BUTTON,VOL DR10 G	1	
4	M03341100A	KNOB,SLIDE DR40 G	1	
5	M03721800A	BUTTON,TOP DR10 G	1	
6	M03721500C	ESCUTCHEON,INR DR10 G	1	
7	M03557200A	SHEET,GND CU 3.5*9*0.1 G	2	
8	M03748800A	SHEET,GND 15*28 G	1	
9	M03721600D	CHASSIS,CTR DR10 G	1	
10	M03721400C	CASE,BTM DR10C G	1	
11	M03721900C	COVER,BAT LID DR10 G	1	
12	M03723600A	SHAFT,COVER LID DR10 G	1	
13	M03723000A	CHASSIS,BTM DR10C G	1	
14	M03776000A	SHEET,BTM DR10 G	1	
15	M03722000B	COVER,SD DR10 G	1	
16	M03722200C	WINDOW,DR10 G	1	
17	M03723200A	FOOT,RUBBER DR10 G	2	
18	E95521000A	PCB ASSY,PANEL DR10 G	1	
18a	M03722100B	BRACKET,OLED DR10 G	1	This part is included in E95521000A.
18b	M02973400A	SHEET,SLIDE 3POINT DR100	1	This part is included in E95521000A.
19	E95520800A	PCB ASSY,MAIN DR10C G	1	
19a	M03722400B	CPRSN SPR,BAT P DR10 G	1	This part is included in E95520800A.
19b	M03722500B	CPRSN SPR,BAT M DR10 G	1	This part is included in E95520800A.
20	(E95521200A)	PCBA,JACK 3.5MM DR10 G	1	DR-10CS Only, *2
20a	(M03722800C)	BRACKET,3.5MM DR10C G	1	DR-10CS Only, This part is included in E95521200A.
20b	(M03767300A)	SHEET,GND 12*34 G	1	DR-10CS Only, This part is included in E95521200A.
21	(E95523100A)	PCBA,JACK MXLR4 DR10 G	1	DR-10CH Only, *3
21a	(M03722700B)	BRACKET,MXLR DR10C G	1	DR-10CH Only, This part is included in E95523100A.
21b	(M0375520)	LUG,GND-24	1	DR-10CH Only, This part is included in E95523100A.
22	B00326000A	SCREW,MPBR 1.4*4FZB G	2	
23	B00334100A	SCREW,MPPR 1.7*8 FZB G	4	
24	B00171203A	SCREW,BP 2*3 FZB G	3	

*2: This PCBA is supplied by a PCBA below.
E95521100A GA PCBA,JACK 3.5MM DR10 G

*3: This PCBA is supplied by a PCBA below.
E95523000A GA PCBA,JACK MXLR4 DR10 G

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REF.NO.	PARTS NO.	DESCRIPTION	QTY.	REMARKS

NOTES

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TASCAM

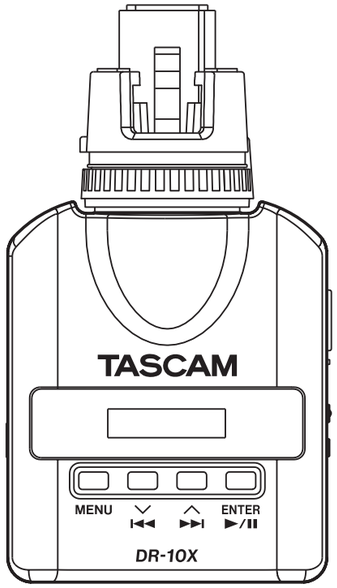
SCHEMATIC DIAGRAM

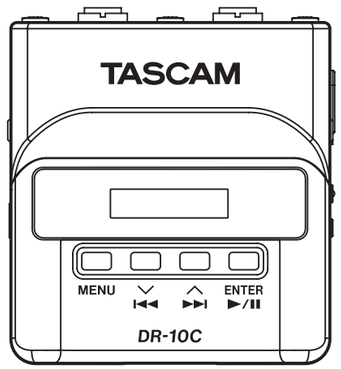
回路図

Compact Linear PCM Recorder
DR-10X/10C

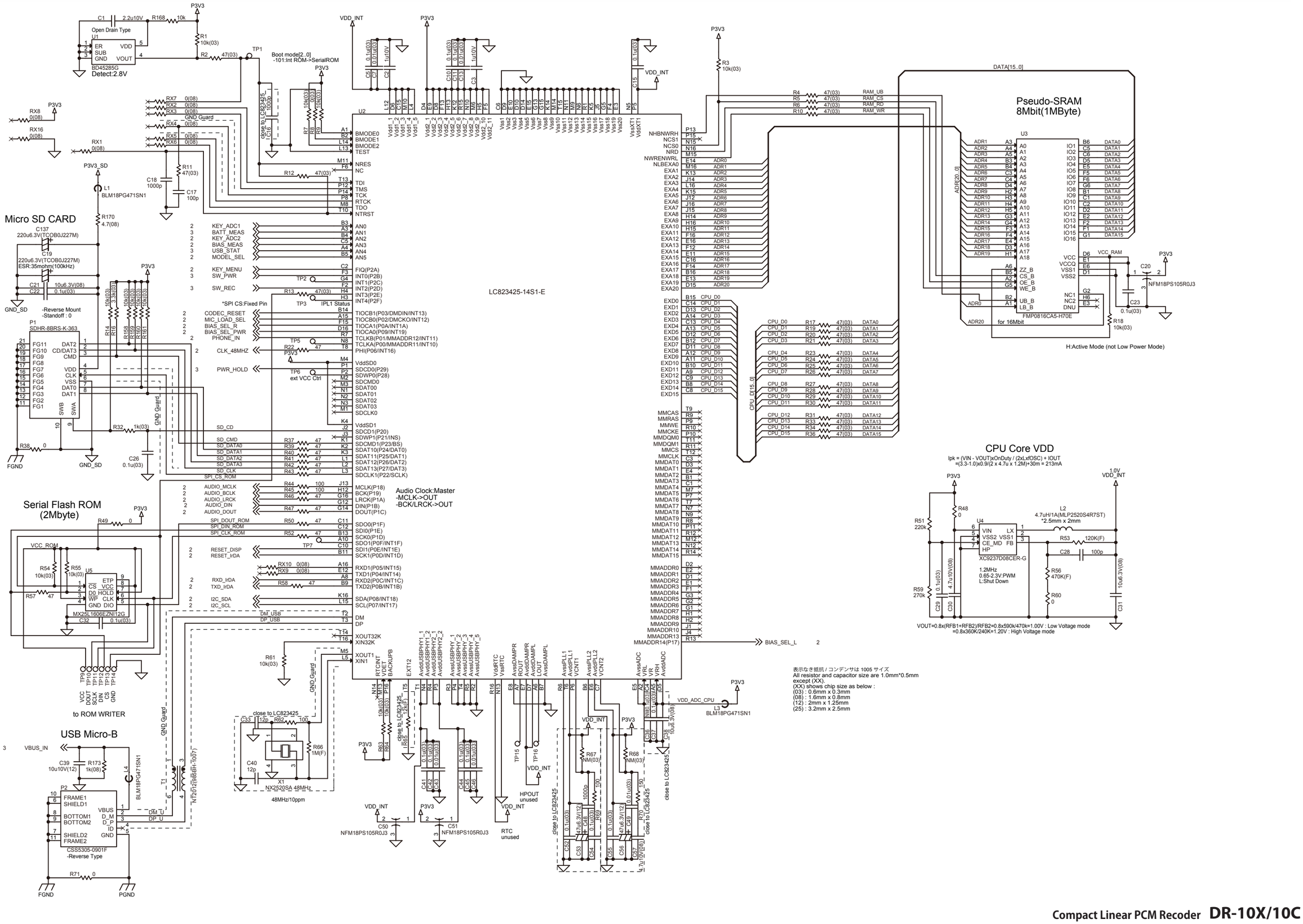
CONTENTS 目次

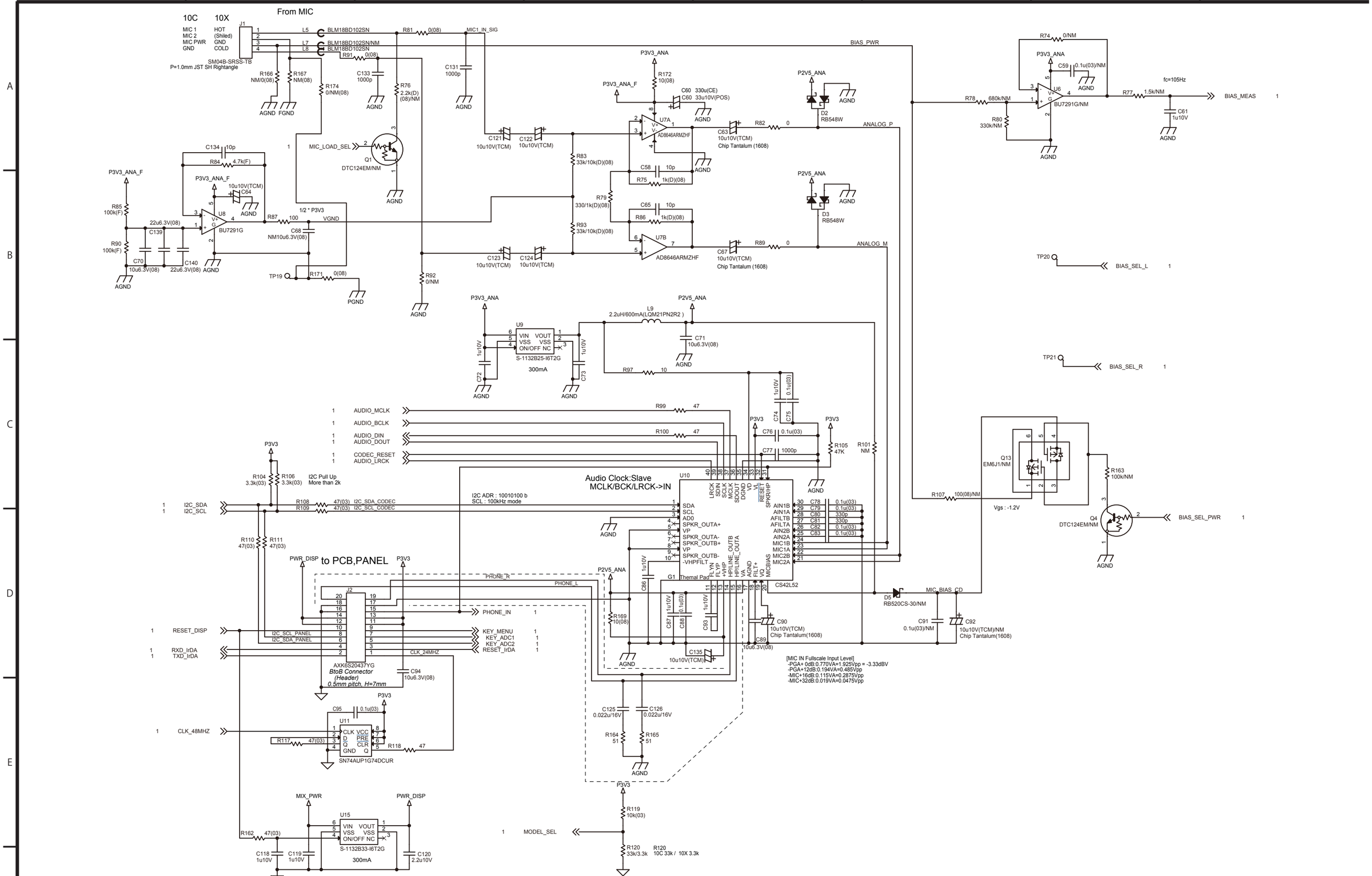
MAIN (1/3) 2
MAIN (2/3) 3
MAIN (3/3) 4
PANEL 5
JACK 6



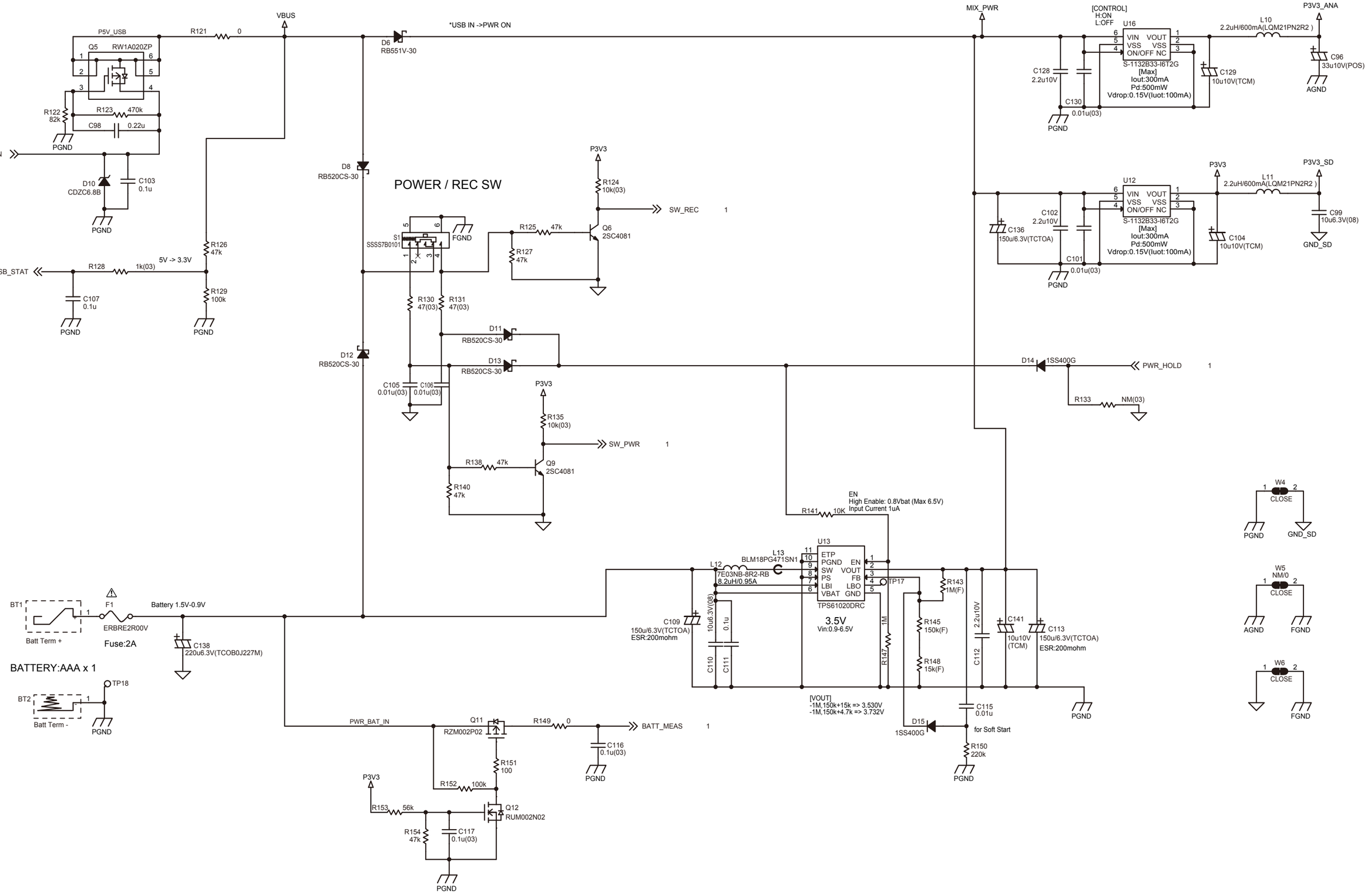


1st Issue, : Apr, 2015

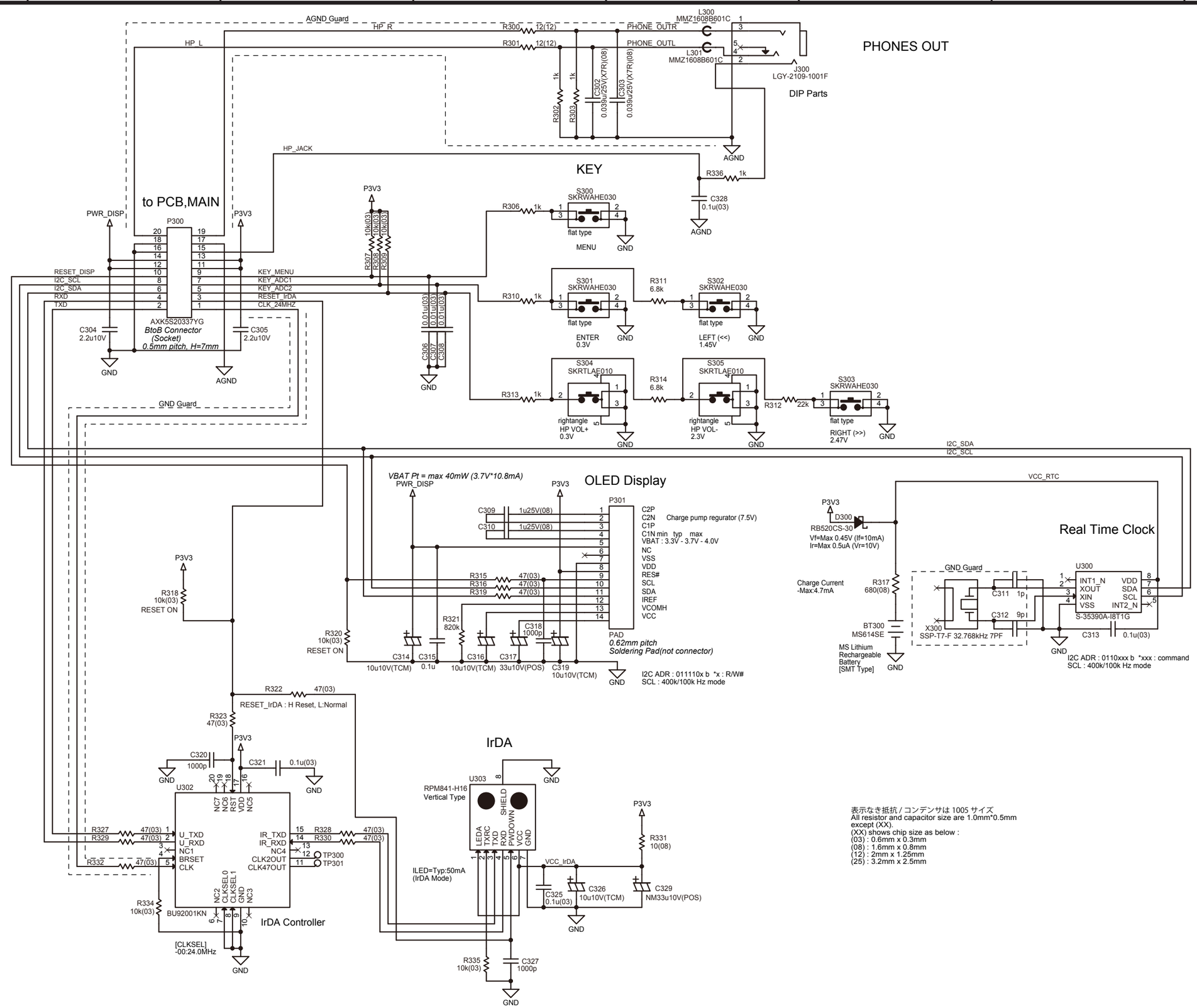

LC823425-14S1-E
Micro SD CARD
Serial Flash ROM (2Mbyte)
MX25L1606EZNI12G
USB Micro-B
to ROM WRITER
Pseudo-SRAM 8Mbit(1MByte)
FMP0816CA5-H70E
for 16Mbit
H:Active Mode (not Low Power Mode)
CPU Core VDD
XC9237D08CER-G
VOUT=0.8x(RFB1+RFB2)/RFB2=0.8x590k/470k=1.00V : Low Voltage mode
=0.8x360K/240K=1.20V : High Voltage mode
Audio Clock:Master
-MCLK->OUT
-BCK/LRCK->OUT
*SPI CS:Fixed Pin
Boot mode[2..0]
-101:Int ROM->SerialROM
表示なき抵抗 / コンデンサは 1005 サイズ
All resistor and capacitor size are 1.0mm*0.5mm
except (XX).
(XX) shows chip size as below :
(03) : 0.6mm x 0.3mm
(08) : 1.6mm x 0.8mm
(12) : 2mm x 1.25mm
(25) : 3.2mm x 2.5mm


From MIC
10C 10X
MIC 1 HOT
MIC 2 (Shiled)
MIC PWR GND
GND COLD
J1
SM04B-SRSS-TB
P=1.0mm JST SH Rightangle
L5 BLM18BD102SN
L7 BLM18BD102SN/NM
L8 BLM18BD102SN
R81 0(08)
R91 0(08)
MIC1_IN_SIG
R166 NM/0(08)
R167 NM(08)
R174 0/NM(08)
C133 1000p
R76 2.2k(D) (08)/NM
C131 1000p
AGND
FGND
BIAS_PWR
P3V3_ANA
P3V3_ANA_F
R172 10(08)
C60 330u(CE)
C60 33u10V(POS)
U7A
AD8646ARMZHF
C121 10u10V(TCM)
C122 10u10V(TCM)
R82 0
C63 10u10V(TCM) Chip Tantalum (1608)
P2V5_ANA
D2 RB548W
ANALOG_P
C58 10p
R75 1k(D)(08)
R83 33k/10k(D)(08)
R79 330/1k(D)(08)
C65 10p
R86 1k(D)(08)
R93 33k/10k(D)(08)
U7B
AD8646ARMZHF
C123 10u10V(TCM)
C124 10u10V(TCM)
R89 0
C67 10u10V(TCM) Chip Tantalum (1608)
D3 RB548W
ANALOG_M
C134 10p
R84 4.7k(F)
MIC_LOAD_SEL
Q1 DTC124EM/NM
C64 10u10V(TCM)
U8 BU7291G
R85 100k(F)
R90 100k(F)
22u6.3V(08)
C139
C70 10u6.3V(08)
C140 22u6.3V(08)
R87 100
1/2 * P3V3
VGND
C68 NM10u6.3V(08)
TP19
R171 0(08)
PGND
R92 0/NM
R74 0/NM
C59 0.1u(03)/NM
U6 BU7291G/NM
R78 680k/NM
R80 330k/NM
R77 1.5k/NM
fc=105Hz
C61 1u10V
BIAS_MEAS 1
TP20
BIAS_SEL_L 1
TP21
BIAS_SEL_R 1
U9 S-1132B25-I6T2G
VIN VOUT VSS VSS ON/OFF NC
300mA
L9 2.2uH/600mA(LQM21PN2R2)
C71 10u6.3V(08)
C72 1u10V
C73 1u10V
R97 10
C74 1u10V
C75 0.1u(03)
C76 0.1u(03)
C77 1000p
R105 47K
R101 NM
R99 47
R100 47
AUDIO_MCLK
AUDIO_BCLK
AUDIO_DIN
AUDIO_DOUT
CODEC_RESET
AUDIO_LRCK
Audio Clock:Slave
MCLK/BCK/LRCK->IN
U10 CS42L52
I2C ADR : 10010100 b
SCL : 100kHz mode
I2C_SDA
I2C_SCL
R104 3.3k(03)
R106 3.3k(03)
I2C Pull Up More than 2k
R108 47(03) I2C_SDA_CODEC
R109 47(03) I2C_SCL_CODEC
R110 47(03)
R111 47(03)
PWR_DISP to PCB,PANEL
PHONE_R
PHONE_L
PHONE_IN 1
KEY_MENU 1
KEY_ADC1 1
KEY_ADC2 1
RESET_IrDA 1
RESET_DISP
I2C_SCL_PANEL
I2C_SDA_PANEL
RXD_IrDA
TXD_IrDA
CLK_24MHZ
J2
AXK6S20437YG
BtoB Connector (Header)
0.5mm pitch, H=7mm
C94 10u6.3V(08)
R169 10(08)
C86 1u10V
C87 1u10V
C88 0.1u(03)
C93 1u10V
C135 10u10V(TCM)
C90 10u10V(TCM) Chip Tantalum(1608)
C89 10u6.3V(08)
C91 0.1u(03)/NM
C92 10u10V(TCM)/NM Chip Tantalum(1608)
D5 RB520CS-30/NM
MIC_BIAS_CD
[MIC IN Fullscale Input Level]
-PGA+ 0dB:0.770VA=1.925Vpp = -3.33dBV
-PGA+12dB:0.194VA=0.485Vpp
-MIC+16dB:0.115VA=0.2875Vpp
-MIC+32dB:0.019VA=0.0475Vpp
C125 0.022u/16V
C126 0.022u/16V
R164 51
R165 51
C95 0.1u(03)
U11 SN74AUP1G74DCUR
CLK_48MHZ
R117 47(03)
R118 47
MIX_PWR
PWR_DISP
U15 S-1132B33-I6T2G
VIN VOUT VSS VSS ON/OFF NC
300mA
R162 47(03)
C118 1u10V
C119 1u10V
C120 2.2u10V
MODEL_SEL
R119 10k(03)
R120 33k/3.3k
R120 10C 33k / 10X 3.3k
R107 100(08)/NM
Vgs : -1.2V
Q13 EM6J1/NM
R163 100k/NM
Q4 DTC124EM/NM
BIAS_SEL_PWR 1

BATTERY / USB POWER

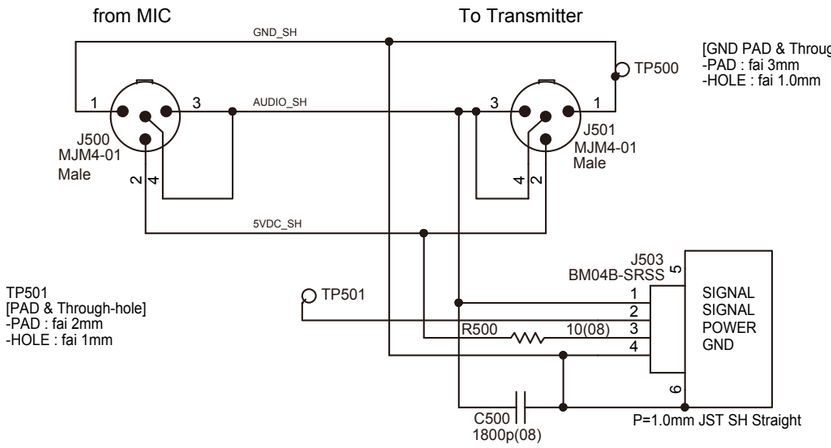


PANEL


PHONES OUT
L300 MMZ1608B601C
L301 MMZ1608B601C
J300 LGY-2109-1001F
DIP Parts
AGND Guard
HP_R
HP_L
R300 12(12)
R301 12(12)
PHONE_OUTR
PHONE_OUTL
R302 1k
R303 1k
C302 0.039u/25V(X7R)(08)
C303 0.039u/25V(X7R)(08)
AGND
HP_JACK
KEY
R336 1k
C328 0.1u(03)
to PCB,MAIN
P3V3
PWR_DISP
P300
AXK5S20337YG
BtoB Connector
(Socket)
0.5mm pitch, H=7mm
RESET_DISP
I2C_SCL
I2C_SDA
RXD
TXD
KEY_MENU
KEY_ADC1
KEY_ADC2
RESET_IrDA
CLK_24MHz
C304 2.2u10V
C305 2.2u10V
GND
AGND
GND Guard
R307 10k(03)
R308 10k(03)
R309 10k(03)
0.01u(03)
C306
C307
C308
S300 SKRWAHE030
flat type
MENU
R306 1k
S301 SKRWAHE030
ENTER
0.3V
R310 1k
R311 6.8k
S302 SKRWAHE030
LEFT (<<)
1.45V
S304 SKRTLAE010
rightangle
HP VOL+
0.3V
R313 1k
R314 6.8k
S305 SKRTLAE010
rightangle
HP VOL-
2.3V
R312 22k
S303 SKRWAHE030
RIGHT (>>)
2.47V
I2C_SDA
I2C_SCL
VBAT Pt = max 40mW (3.7V*10.8mA)
PWR_DISP
OLED Display
P301
C309 1u25V(08)
C310 1u25V(08)
C2P
C2N
C1P
C1N min typ max
VBAT : 3.3V - 3.7V - 4.0V
NC
VSS
VDD
RES#
SCL
SDA
IREF
VCOMH
VCC
Charge pump regurator (7.5V)
PAD
0.62mm pitch
Soldering Pad(not connector)
R315 47(03)
R316 47(03)
R319 47(03)
R321 820k
R320 10k(03)
RESET ON
C314 10u10V(TCM)
C315 0.1u
C316 10u10V(TCM)
C317 33u10V(POS)
C318 1000p
C319 10u10V(TCM)
I2C ADR : 011110x b *x : R/W#
SCL : 400k/100k Hz mode
R318 10k(03)
RESET ON
R322 47(03)
RESET_IrDA : H Reset, L:Normal
R323 47(03)
C320 1000p
C321 0.1u(03)
U302
NC7
NC6
RST
VDD
NC5
U_TXD
U_RXD
NC1
BRSET
CLK
IR_TXD
IR_RXD
NC4
CLK2OUT
CLK47OUT
TP300
TP301
R327 47(03)
R329 47(03)
R332 47(03)
R328 47(03)
R330 47(03)
NC2
CLKSEL0
CLKSEL1
GND
NC3
R334 10k(03)
BU92001KN
IrDA Controller
[CLKSEL]
-00:24.0MHz
IrDA
U303
RPM841-H16
Vertical Type
LEDA
TXRC
TXD
RXD
PWDOWN
VCC
GND
SHIELD
ILED=Typ:50mA
(IrDA Mode)
VCC_IrDA
R331 10(08)
C325 0.1u(03)
C326 10u10V(TCM)
C329 NM33u10V(POS)
R335 10k(03)
C327 1000p
VCC_RTC
D300
RB520CS-30
Vf=Max 0.45V (If=10mA)
Ir=Max 0.5uA (Vr=10V)
Real Time Clock
U300
INT1_N
XOUT
XIN
VSS
VDD
SDA
SCL
INT2_N
S-35390A-I8T1G
GND Guard
C311 1p
C312 9p
X300
SSP-T7-F 32.768kHz 7PF
C313 0.1u(03)
Charge Current
-Max:4.7mA
R317 680(08)
BT300
MS614SE
MS Lithium
Rechargeable
Battery
[SMT Type]
I2C ADR : 0110xxx b *xxx : command
SCL : 400k/100k Hz mode
表示なき抵抗 / コンデンサは 1005 サイズ
All resistor and capacitor size are 1.0mm*0.5mm
except (XX).
(XX) shows chip size as below :
(03) : 0.6mm x 0.3mm
(08) : 1.6mm x 0.8mm
(12) : 2mm x 1.25mm
(25) : 3.2mm x 2.5mm

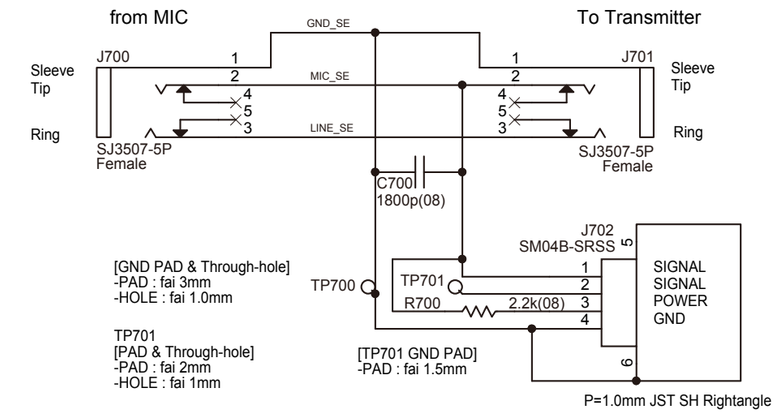
PCB,MXLR4 DR10C (E90523100C PCB,JACK MXLR4 DR10 G)

SHURE Type (miniXLR 4pin)



PCB,3.5MM DR10C (E90521200C PCB,JACK 3.5MM DR10 G)

SENNHEISER Type (3.5mm Jack with Screw Lock)



(XX) shows chip size as below :
(05) : 1.0mm x 0.5mm
(08) : 1.6mm x 0.8mm

Confirming the firmware version

Before starting firmware update procedures, check the firmware version of the DR-10C/DR-10X you are using.

1. Turn the main unit on.
2. Press the **MENU** button to open the MENU Screen.
3. Use the I◄◄ [∨] and ►►I [∧] buttons to select the VERSION INFO menu item and press the ►/❚❚ [**ENTER**] button to show the firmware version.
4. Check the firmware version shown here.

Updating is not necessary if the firmware version shown here is the same or newer than that of the firmware version you intend to use for the update.

Firmware update procedures

CAUTION

When updating the firmware, the unit should be using batteries with sufficient remaining power or operating on USB bus power supplied from a computer.

If battery power is low, conducting the update will not be possible.

1. Download the latest firmware from the TEAC Global Site (http://teac-global.com/). If the downloaded file is in ZIP format or another compressed file type, decompress it.
2. Load a microSD card to use for saving the firmware update file in the unit.
3. Use the included USB cable to connect the unit to a computer.

   The screen shown below will appear. Use the I◄◄ [∨] and ►►I [∧] buttons to select the STORAGE item on the display, and press the ►/❚❚ [**ENTER**] button to confirm.

   The computer should recognize the unit as an external drive (external storage).
4. Copy the downloaded firmware ("dr10.102" for V1.02) to the root directory of the DR-10.
5. After copying the file, use the proper procedures for the computer to unmount this unit before disconnecting the USB cable. If the unit is on, turn it off.
6. While pressing the ►/❚❚ [**ENTER**] and **PHONES** [+] buttons at the same time, turn the unit on.

   If using USB bus power only (no batteries), while pressing the ►/❚❚ [**ENTER**] and **PHONES** [+] buttons at the same time, connect a USB cable to the computer and then the USB port on this unit.

   The unit will start in update mode. After checking the microSD card, the following screen will appear.

CAUTION

If this screen does not appear, turn the unit off once and follow the procedures in step 6 again. Press and hold the ►/❚❚ [ENTER] and PHONES [+] buttons firmly until this screen appears.

7. The following screen will appear when you release the buttons.

   The current version is shown on the left and the update version is shown on the right.

NOTE

- ***If the microSD card does not contain an update file, the screen above will not appear and the unit will start in normal mode.***
- ***If the microSD card has multiple update files, only the first recognized file will be shown. Since selection of a different file is not possible, only save the file to be used for the update on the card.***
- ***The screen shown above is an example. The actual appearance will differ.***

8. Press the ►/❚❚ [**ENTER**] button to show a reconfirmation screen as follows.

9. Press the I◄◄ [∨] button to start the update.
10. When updating completes, Update OK will appear on the screen, and the unit will automatically restart in normal mode.
11. Refer to "Checking the firmware version" and confirm that the VERSION INFO menu item shows the latest firmware version.

    This completes updating the unit.
12. Connect the unit to a computer by USB, and delete the firmware update file in the root directory of the unit.

TASCAM DR-10C/DR-10X Release Notes

Update information

We recommend that you always use the latest firmware version available for the unit. For information about the latest firmware, visit the TEAC Global Site (http://teac-global.com/).

New functions

V1.10 additions

- 44.1kHz, 16-bit and poly recording file formats can now also be selected in addition to the 48kHz, 24-bit and mono formats available before. These can be set using the new menu items shown below.

  FS SAMPLE: 44.1kHz, 48kHz (default)

  BIT LENGTH: 16bit, 24bit (default)

  FILE TYPE: MONO (default), POLY

NOTE

You cannot set the FILE TYPE item to POLY and the DUAL REC MODE item to ON at the same time.

- If the remaining battery charge is low, the remaining open space on the microSD card is low or recording cannot be started, for example, the unit can now output a warning sound (beeping) from the headphone jack. This can be set using the new menu item shown below.

  WARNING BEEP: OFF(default), ON

NOTE

For details, download the latest DR-10C or DR-10X Owner's Manual from the TEAC Global Site (http://teac-global.com/).

Maintenance items

V1.10 fix

- Operation stability has been improved.

V1.02 fix

- When the SYSTEM INIT menu item is executed (to initialize settings), the MODEL SELECT item setting is no longer reset.

  This change only applies to the DR-10C.

NOTE

For details, download the latest DR-10C Owner's Manual from the TEAC Global Site (http://teac-global.com/).

Confirming the firmware version

Before starting firmware update procedures, check the firmware version of the DR-10C/DR-10X you are using.

1. Turn the main unit on.
2. Press the MENU button to open the MENU Screen.
3. Use the I◄◄ [∨] and ►►I [∧] buttons to select the VERSION INFO menu item and press the ►/❚❚ [**ENTER**] button to show the firmware version.
4. Check the firmware version shown here.

Updating is not necessary if the firmware version shown here is the same or newer than that of the firmware version you intend to use for the update.

Firmware update procedures

CAUTION

When updating the firmware, the unit should be using batteries with sufficient remaining power or operating on USB bus power supplied from a computer.

If battery power is low, conducting the update will not be possible.

1. Download the latest firmware from the TEAC Global Site (http://teac-global.com/). If the downloaded file is in ZIP format or another compressed file type, decompress it.
2. Use the included USB cable to connect the unit to a computer.

   The screen shown below will appear. Use the I◄◄ [∨] and ►►I [∧] buttons to select the STORAGE item on the display, and press the ►/❚❚ [**ENTER**] button to confirm.

   The computer should recognize the unit as an external drive (external storage).
3. Copy the downloaded firmware ("dr10.102" for V1.02) to the root directory of the DR-10.
4. After copying the file, use the proper procedures for the computer to unmount this unit before disconnecting the USB cable. If the unit is on, turn it off.

5. While pressing the ►/❚❚ [**ENTER**] and **PHONES** [+] buttons at the same time, turn the unit on.

   If using USB bus power only (no batteries), while pressing the ►/❚❚ [**ENTER**] and **PHONES** [+] buttons at the same time, connect a USB cable to the computer and then the USB port on this unit.

   The unit will start in update mode. After checking the microSD card, the following screen will appear.

CAUTION

If this screen does not appear, turn the unit off once and follow the procedures in step 5 again. Press and hold the ►/❚❚ [**ENTER**] ***and*** **PHONES** [+] ***buttons firmly until this screen appears.***

6. The following screen will appear when you release the buttons.

   The current version is shown on the left and the update version is shown on the right.

NOTE

- ***If the microSD card does not contain an update file, the screen above will not appear and the unit will start in normal mode.***
- ***If the microSD card contains multiple update files, the first file recognized will be shown.***
- ***The screen shown above is an example. The actual appearance will differ.***

7. Press the ►/❚❚ [**ENTER**] button to show a reconfirmation screen as follows.

8. Press the I◄◄ [∨] button to start the update.
9. When updating completes, Update OK will appear on the screen, and the unit will automatically restart in normal mode.
10. Refer to "Checking the firmware version" and confirm that the VERSION INFO menu item shows the latest firmware version.

    This completes updating the unit.
11. Connect the unit to a computer by USB, and delete the firmware update file in the root directory of the unit.

TASCAM DR-10C/DR-10X Release Notes

Update information

We recommend that you always use the latest firmware version available for the unit. For information about the latest firmware, visit the TEAC Global Site (http://teac-global.com/).

New functions

V1.10 additions

- 44.1kHz, 16-bit and poly recording file formats can now also be selected in addition to the 48kHz, 24-bit and mono formats available before. These can be set using the new menu items shown below.

  FS SAMPLE: 44.1kHz, 48kHz (default)

  BIT LENGTH: 16bit, 24bit (default)

  FILE TYPE: MONO (default), POLY

NOTE

Dual recording is not possible when recording poly files (only one file can be recorded). Poly file recording is not possible when dual recording (only mono files can be recorded).

- If the remaining battery charge is low, the remaining open space on the microSD card is low or recording cannot be started, for example, the unit can now output a warning sound (beeping) from the headphone jack. This can be set using the new menu item shown below.

  WARNING BEEP: OFF(default), ON

NOTE

For details, download the latest DR-10C or DR-10X Owner's Manual from the TEAC Global Site (http://teac-global.com/).

Maintenance items

V1.10 fix

- Operation stability has been improved.

V1.02 fix

- When the SYSTEM INIT menu item is executed (to initialize settings), the MODEL SELECT item setting is no longer reset.

  This change only applies to the DR-10C.

NOTE

For details, download the latest DR-10C Owner's Manual from the TEAC Global Site (http://teac-global.com/).

Confirming the firmware version

Before starting firmware update procedures, check the firmware version of the DR-10C/DR-10X you are using.

1. Turn the main unit on.
2. Press the MENU button to open the MENU Screen.
3. Use the I◄◄ [∨] and ►►I [∧] buttons to select the VERSION INFO menu item and press the ►/❚❚ [**ENTER**] button to show the firmware version.
4. Check the firmware version shown here.

Updating is not necessary if the firmware version shown here is the same or newer than that of the firmware version you intend to use for the update.

Firmware update procedures

CAUTION

When updating the firmware, the unit should be using batteries with sufficient remaining power or operating on USB bus power supplied from a computer.

If battery power is low, conducting the update will not be possible.

1. Download the latest firmware from the TEAC Global Site (http://teac-global.com/). If the downloaded file is in ZIP format or another compressed file type, decompress it.
2. Use the included USB cable to connect the unit to a computer.

   The screen shown below will appear. Use the I◄◄ [∨] and ►►I [∧] buttons to select the STORAGE item on the display, and press the ►/❚❚ [**ENTER**] button to confirm.

   The computer should recognize the unit as an external drive (external storage).
3. Copy the downloaded firmware ("dr10.102" for V1.02) to the root directory of the DR-10.
4. After copying the file, use the proper procedures for the computer to unmount this unit before disconnecting the USB cable. If the unit is on, turn it off.

5. While pressing the ►/❚❚ [**ENTER**] and **PHONES** [+] buttons at the same time, turn the unit on.

   If using USB bus power only (no batteries), while pressing the ►/❚❚ [**ENTER**] and **PHONES** [+] buttons at the same time, connect a USB cable to the computer and then the USB port on this unit.

   The unit will start in update mode. After checking the microSD card, the following screen will appear.

CAUTION

If this screen does not appear, turn the unit off once and follow the procedures in step 5 again. Press and hold the ►/❚❚ [**ENTER**] ***and*** **PHONES** [+] ***buttons firmly until this screen appears.***

6. The following screen will appear when you release the buttons.

   The current version is shown on the left and the update version is shown on the right.

NOTE

- ***If the microSD card does not contain an update file, the screen above will not appear and the unit will start in normal mode.***
- ***If the microSD card contains multiple update files, the first file recognized will be shown.***
- ***The screen shown above is an example. The actual appearance will differ.***

7. Press the ►/❚❚ [**ENTER**] button to show a reconfirmation screen as follows.

8. Press the I◄◄ [∨] button to start the update.
9. When updating completes, Update OK will appear on the screen, and the unit will automatically restart in normal mode.
10. Refer to "Checking the firmware version" and confirm that the VERSION INFO menu item shows the latest firmware version.

    This completes updating the unit.
11. Connect the unit to a computer by USB, and delete the firmware update file in the root directory of the unit.

Update information

We recommend that you always use the latest firmware version available for the unit. For information about the latest firmware, visit the TEAC Global Site (http://teac-global.com/).

Maintenance item

V1.02 fix

- When the SYSTEM INIT (settings initialization) menu item is executed, the MODEL SELECT setting is no longer initialized.

  This change only applies to the DR-10C.

NOTE

For details, refer to Revision C of the DR-10C operation manual (D01241500C).

Confirming the firmware version

Before starting firmware update procedures, check the firmware version of the DR-10C/DR-10X you are using.

1. Turn the main unit on.
2. Press the MENU button to open the MENU Screen.
3. Use the I◄◄ [∨] and ►►I [∧] buttons to select the VERSION INFO menu item and press the ►/❚❚ [**ENTER**] button to show the firmware version.
4. Check the firmware version shown here.

Updating is not necessary if the firmware version shown here is the same or newer than that of the firmware version you intend to use for the update.

Firmware update procedures

CAUTION

When updating the firmware, the unit should be using batteries with sufficient remaining power or operating on USB bus power supplied from a computer.

If battery power is low, conducting the update will not be possible.

1. Download the latest firmware from the TEAC Global Site (http://teac-global.com/). If the downloaded file is in ZIP format or another compressed file type, decompress it.
2. Use the included USB cable to connect the unit to a computer.

   The screen shown below will appear. Use the I◄◄ [∨] and ►►I [∧] buttons to select the STORAGE item on the display, and press the ►/❚❚ [**ENTER**] button to confirm.

   The computer should recognize the unit as an external drive (external storage).
3. Copy the downloaded firmware ("dr10.102" for V1.02) to the root directory of the DR-10.
4. After copying the file, use the proper procedures for the computer to unmount this unit before disconnecting the USB cable. If the unit is on, turn it off.
5. While pressing the ►/❚❚ [**ENTER**] and **PHONES** [+] buttons at the same time, turn the unit on.

   If using USB bus power only (no batteries), while pressing the ►/❚❚ [**ENTER**] and **PHONES** [+] buttons at the same time, connect a USB cable to the computer and then the USB port on this unit.

   The unit will start in update mode. After checking the microSD card, the following screen will appear.

CAUTION

If this screen does not appear, turn the unit off once and follow the procedures in step 5 again. Press and hold the ►/❚❚ [ENTER] and PHONES [+] buttons firmly until this screen appears.

6. The following screen will appear when you release the buttons.

   The current version is shown on the left and the update version is shown on the right.

NOTE

- ***If the microSD card does not contain an update file, the screen above will not appear and the unit will start in normal mode.***
- ***If the microSD card contains multiple update files, the first file recognized will be shown.***
- ***The screen shown above is an example. The actual appearance will differ.***

7. Press the ►/❚❚ [**ENTER**] button to show a reconfirmation screen as follows.

8. Press the I◄◄ [∨] button to start the update.
9. When updating completes, Update OK will appear on the screen, and the unit will automatically restart in normal mode.
10. Refer to "Checking the firmware version" and confirm that the VERSION INFO menu item shows the latest firmware version.

    This completes updating the unit.
11. Connect the unit to a computer by USB, and delete the firmware update file in the root directory of the unit.