SERVICE MANUAL

MODEL: BEATMIX 2

SPECIFICATION

FUNCTION

FX1~3---To turn on the sound effect
PITCH - +--To temporarily adjust the speed for beat matching
BEATS--To adjust the beat for sound effect
PAD MODE 1~2 ----------------------------To switch between 2 PAD MODE
PAD 1~8---Tap them to perform Beat Loop and Hot Cue
SYNC--To make the BPM of two playbacks the same
CUP---To return to CUE point and instant play
Play/Pause--------------------------------------To control a play or pause mode of its belonging deck
CUE1~2--It's for setting and play 2 hot cues
CUE---To set a master Cue memory as a start point
SHIFT---It switches between the first mapping and the second mapping
SAMPLER FADER---------------------------Advance the fader for required sample volume

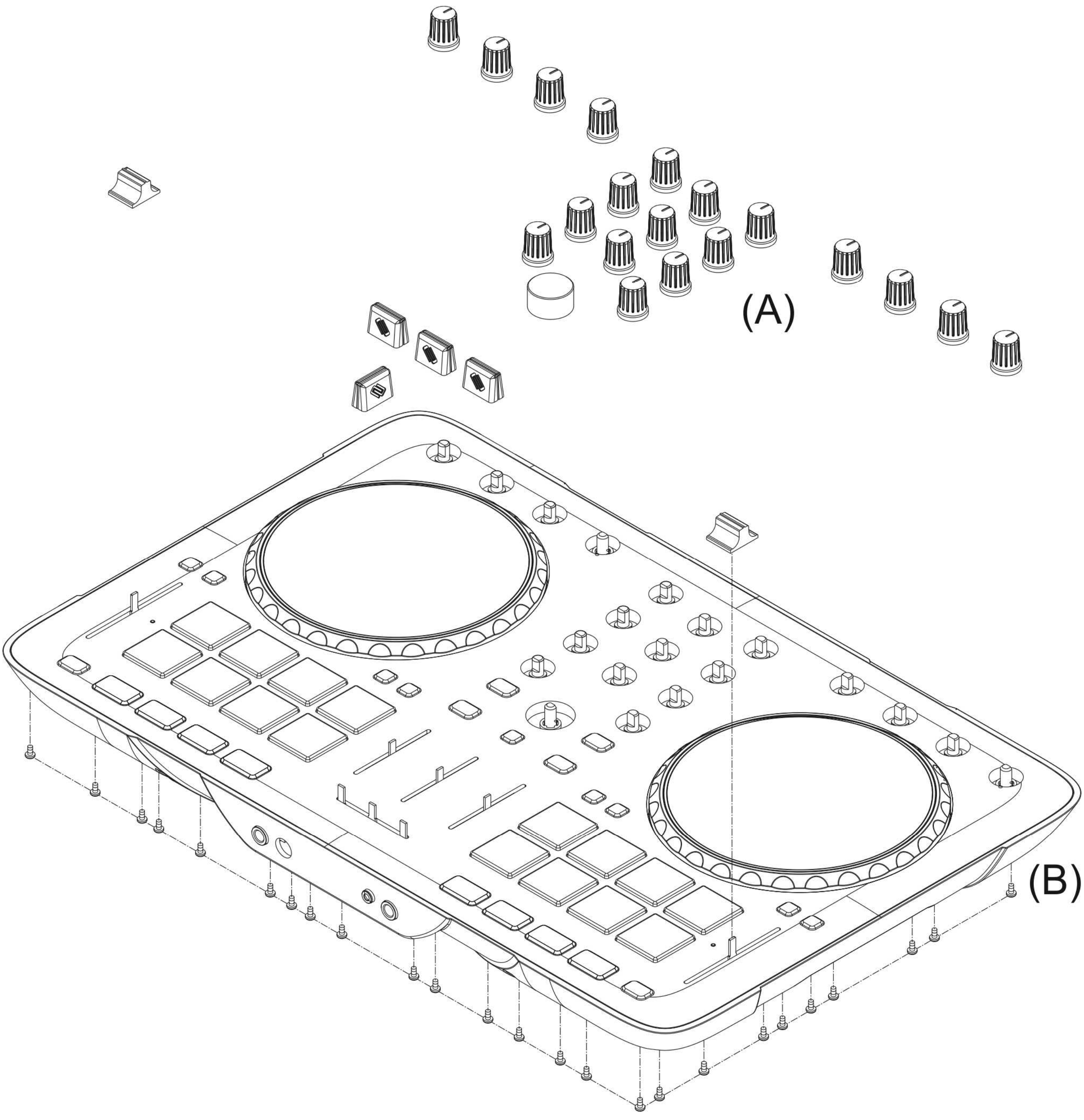
STANDARD

Output level………………….................1.0±0.2 Vms(1KHz 0dB)
S/N Ratio…………………….................More than 80 dB
Frequency response………………………20Hz~20KHz±2dB
Dynamic range………………..................More than 80dB
Channel separation……………..................More than 80dB
Channel balance…………………………...±1dB
Harmonic distoryion…………..................Less than 0.05%

DISASSEMBLY PROCEDURES

1. REMOVAL OF KNOB AND VR CAP (Fig1)

(A) REMOVE THE 20 PCS KNOB AND 6 PCS VR CAP FROM OF PANEL.
(B) REMOVE THE 25 PCS SCREWS FROM OF BOTTOM CHASSIS.



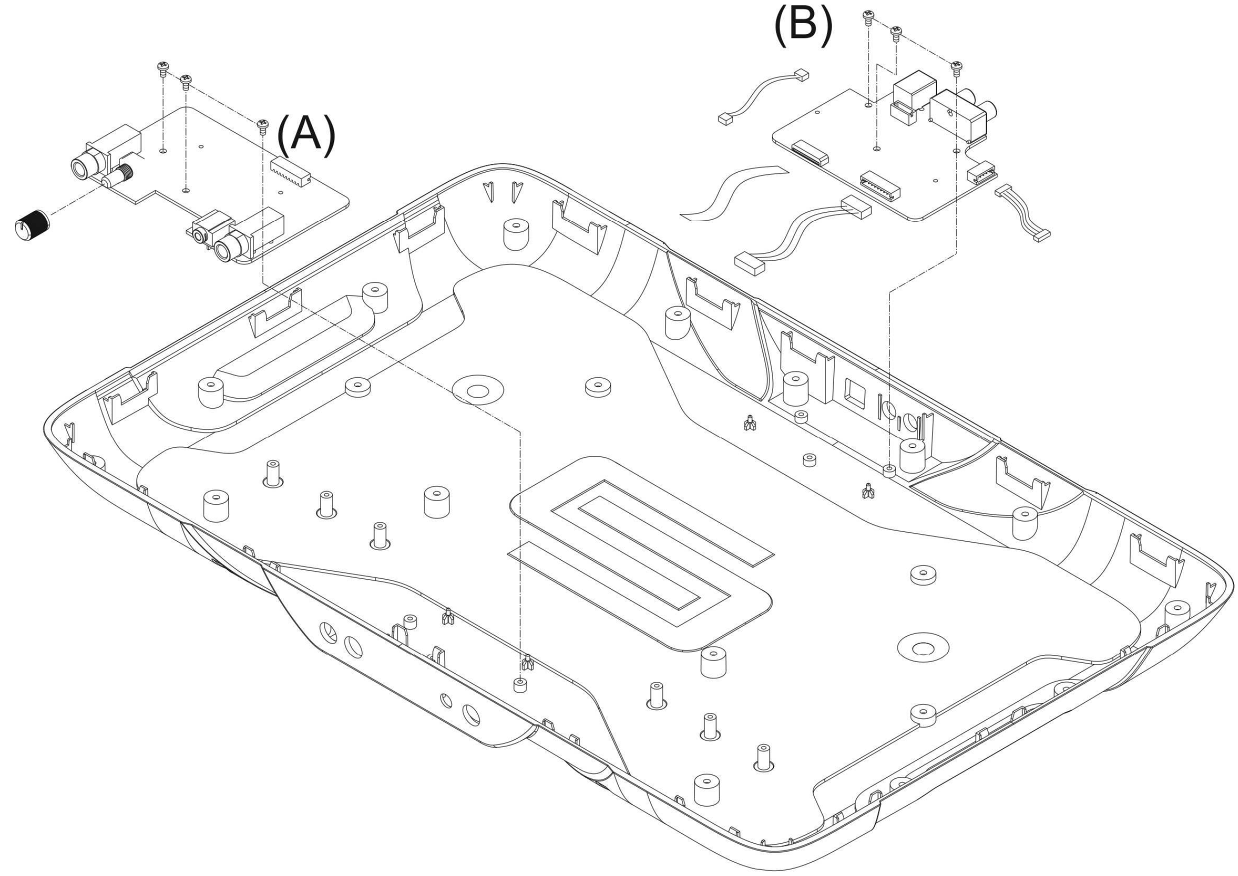
(Fig.1)

DISASSEMBLY PROCEDURES

2. REMOVAL OF MAIN PCB AND MIC PCB AND HEADPHONE PCB ASS'S (Fig.2)

(A) REMOVE THE 3 PCS SCREWS AND 1 PC KNOB BEFORE REMOVAL OF FRONT PCB ASS'Y.

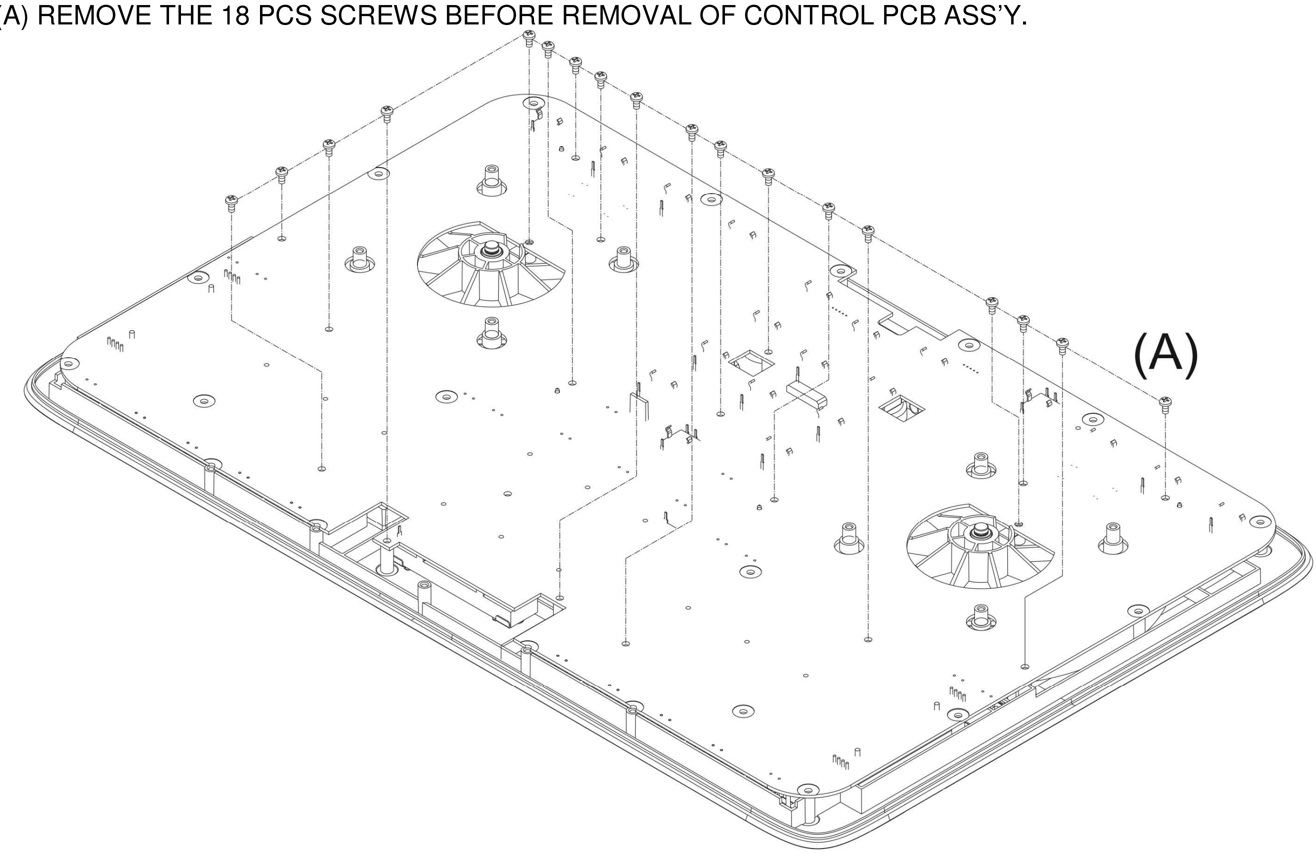
(B) REMOVE THE 3 PCS SCREWS AND 4 PCS CONNECTORS BEFORE REMOVAL OF MAIN PCB ASS'Y.



(Fig.2)

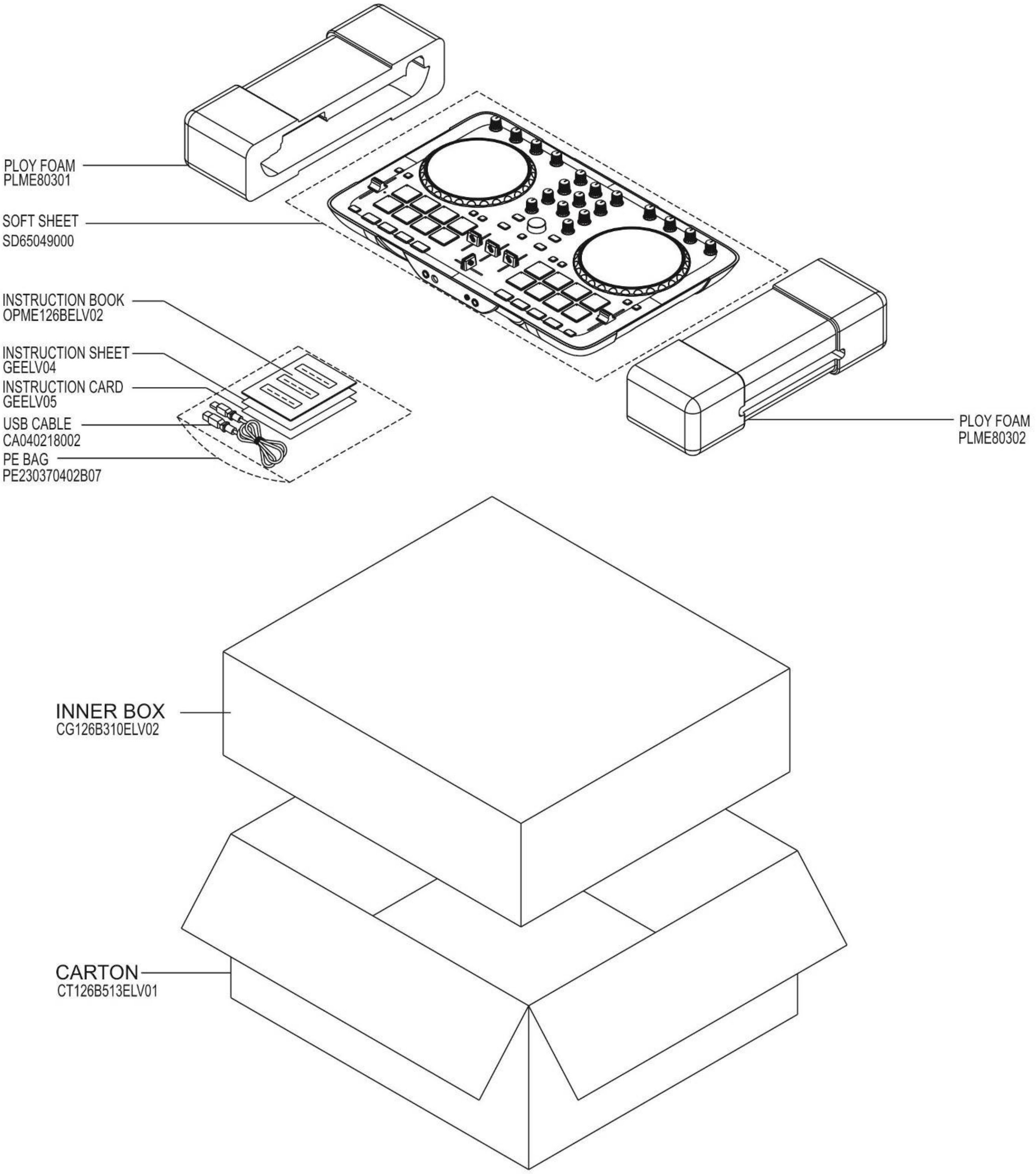
3. REMOVAL OF CONTROL PCB A&B ASS'Y (Fig3)

(A) REMOVE THE 18 PCS SCREWS BEFORE REMOVAL OF CONTROL PCB ASS'Y.

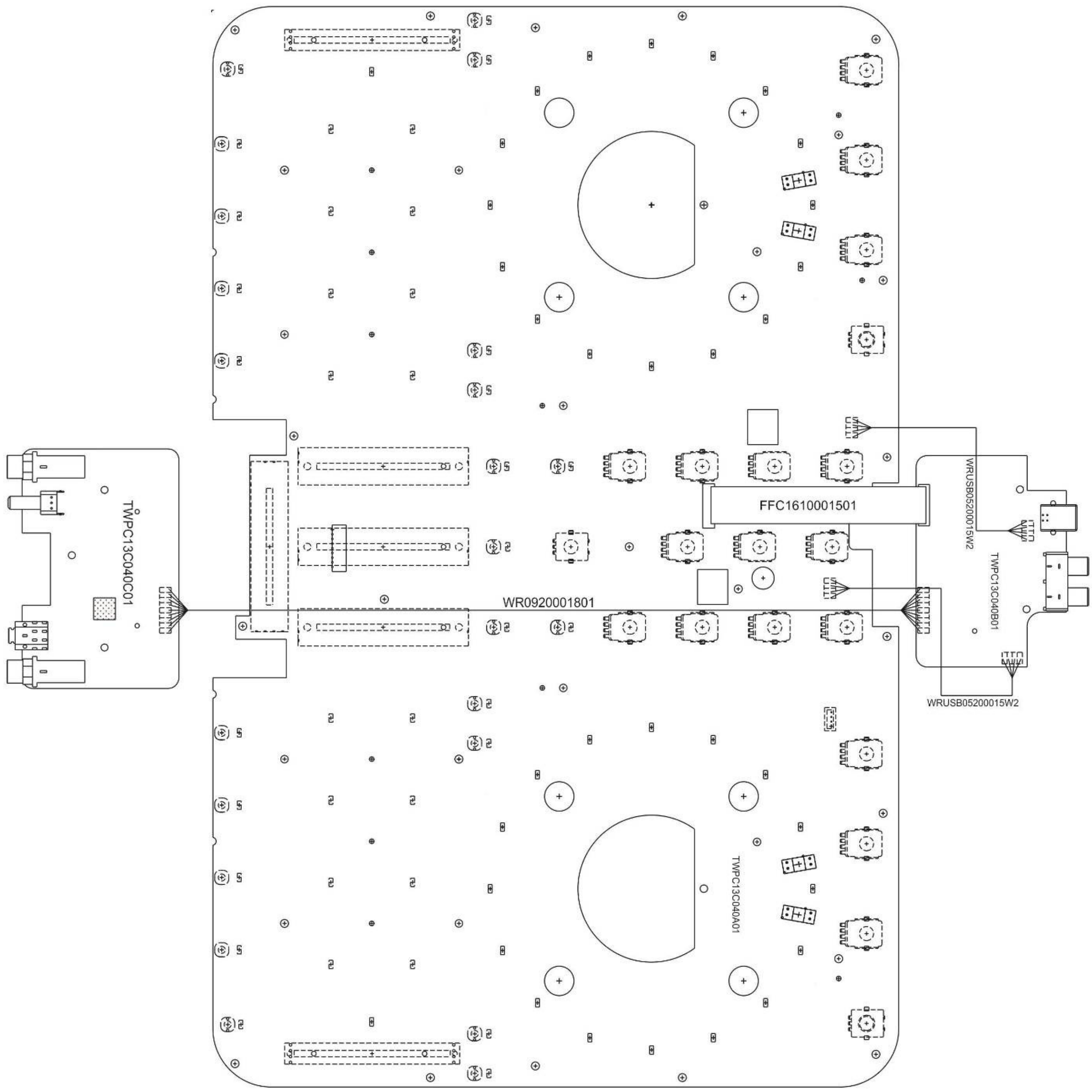


(Fig.3)

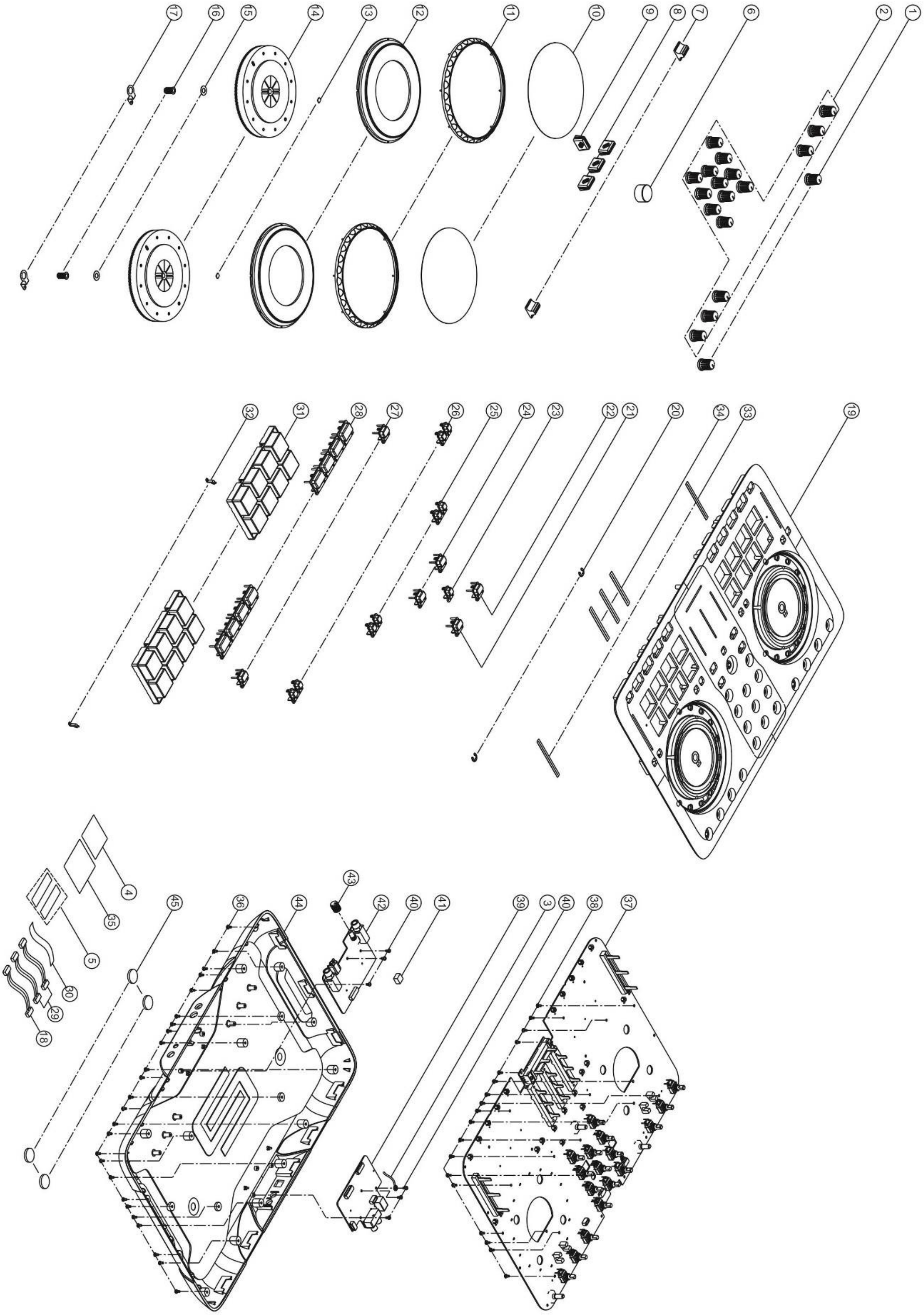
PACKING DIAGRAM



WIRING DIAGRAM



EXPLODE DIAGRAM



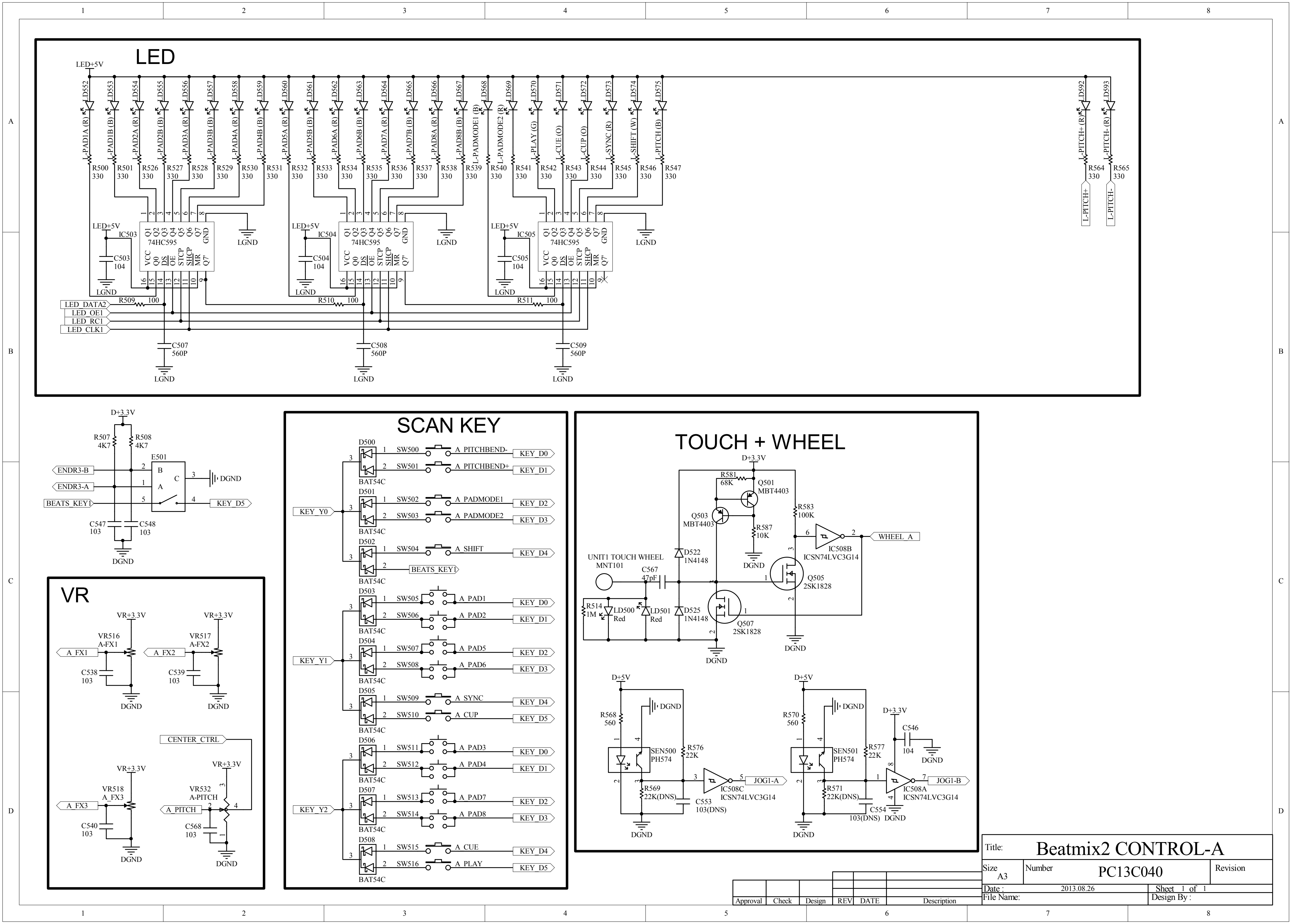
ME126BELV02 BOM

LEVEL	P/N	DESCRIPTION	QTY	REF
0.1	BACS305B	Aluminum Knob	1	6
0.1	BAGL-55A	CABLE CLIP 55L	1	3
0.1	BART-K00701	Rotate Knob	1	43
0.1	CA040218002	Usb Cable 1.8M A/B Black	1	
0.1	ERE75	E Ring 5mm	2	20
0.1	FFC1610001501	FFC 16Pin Pitch:1.0mm Length:1	1	30
0.1	GEELV04	Instruction Sheet	1	
0.1	GEELV05	Instruction Card	1	
0.1	LAC22ELV60	Serial Number Label	1	5
0.1	LAC53ELV25	Warning Label	1	35
0.1	LAC62ELV50	Labe(EAN Bar code)	1	
0.1	LAC63ELV54	CID Label	1	4
0.1	MT1101872	Ground Plate	2	17
0.1	MT1105559	Copper	2	16
0.1	NM1106115	Velvet Carpet	3	34
0.1	NM1106118	Velvet Carpet	2	33
0.1	NP311ELV27	Wheel Plate	2	10
0.1	PME126BELV02	Pack Assembly	1	
..2	CG126B310ELV02	Inner Box	1	
..2	CT126B513ELV01	Carton	1	
..2	OPME126BELV02	Instruction Book	1	
..2	PE230370402B07	Poly Bag 230*370mm	1	
..2	PLME80301	Polyfoam(Left)	1	
..2	PLME80302	Polyfoam(Right)	1	
..2	SD65049000	Soft Sheet	1	
0.1	PT1110634003	Button-Printing(SYNC)	2	28
..2	PT11106340	Button	2	
0.1	PT1110634108	Button Printing(-,+)	2	26
..2	PT11106341	Button	2	
0.1	PT1110634109	Button Printing(A,B)	2	25
..2	PT11106341	Button	2	
0.1	PT1110634209	Button-Printing(SHIFT)	2	27
..2	PT11106342	Button	2	
0.1	PT1110634210	Button-Printing(CUE)	2	24
..2	PT11106342	Button	2	
0.1	PT1110634211	Button-Printing(1)	1	22
..2	PT11106342	Button	1	
0.1	PT1110634212	Button-Printing(2)	1	21
..2	PT11106342	Button	1	
0.1	PT1110634401	Button-Printing	1	23
..2	PT11106344	Button	1	
0.1	PT1110637202	VR Cap	3	8
0.1	PT11106373	Knob	2	1
0.1	PT1110637304	Knob	17	2
0.1	PT1110638701	VR Cap	1	9
0.1	PT1110641701	VR Cap Printing	2	7
0.1	PT11106557	Lid(Wheel)	2	12
0.1	PT11106558	Lid	2	32
0.1	PT1110776	Wheel	2	14
..2	MT1105560	Jog Axis	2	
0.1	PT1110781	Wheel Frame	2	11
0.1	PT113024802	Cabinet(Printing & Painting)	1	19
..2	PT1130248	Cabinet	1	
0.1	PT1130310101	Bottom Chassis(Printing & Pain	1	44

..2	PT11303101	Bottom Chassis	1	
0.1	PU008008025	Conductive Foam	2	13
0.1	PU010010007	Conductive Foam	1	41
0.1	RU1110659	Rubber Foot	4	45
0.1	RU111069602	Rubber Button(Printing)	2	31
0.1	SC0306RBNI	Screw M3X6 PRN Tapping	6	40
0.1	SC0308PBNI	Screw	18	38
0.1	SC0310PBBI	SCREW M3X10 PPB TAPPING	25	36
0.1	WR0920001801	Isolation Cable 9 pin Single R	1	18
0.1	WRUSB05200015W2	ISOLATION CABLE USB2.0 5PIN SI	2	29
0.1	WS1306505	Washer FLAT 13*6.5*0.5MM	2	15
0.1	**TWPC13C04001**	**Function PCB Assembly**	**1**	
..2	**PC13C040**	**Control PCB**	**1**	
..2	**TWPC13C040A01**	**Function PCB Assembly**	**1**	**37**
...3	AL2-51-4403	TRANSISTOR 2N4403 PNP	4	Q100,102,501,503
...3	CS047C5003NPO	CCAP SMD 4.7pF/50V ±0.25pF 0603 NPO	3	C308~310
...3	CS103K5003X7R	CCAP SMD 0.01uF/50V 10% 0603 X7R	29	C1~4,11,102~105,114~117,142~144,149~151,158,160,169,170,538~540,547,548,568
...3	CS104K5003X7R	CCAP SMD 0.1uF/50V 10% 0603 X7R	30	C100,101,106~108,110~112,120,121,126,128,129,132,147,152,157,159,161,171,300~304,306,503~505,546
...3	CS106K1606X7R	CCAP SMD 10uF/16V 10% 1206 X7R	3	C127,130,131
...3	CS300J5003NPO	CCAP SMD 30pF/50V 5% 0603 NPO	2	C109,113
...3	CS330J5003NPO	CCAP SMD 33pF/50V 5% 0603 NPO	2	C118,119
...3	CS470J5003NPO	CCAP SMD 47pF/50V 5% 0603 NPO	2	C166,567
...3	CS471J5003NPO	CCAP SMD 470pF/50V 5% 0603 NPO	4	C122~125
...3	CS561J5003NPO	CCAP SMD 560pF/50V 5% 0603 NPO	7	C7~10,507~509
...3	DIEN1N4148WSM	Diode SMD	4	D120,123,522,525
...3	DIPH574	Photo Sensor	4	SEN102,103,500,501
...3	DISDBAT54CSM	Zener Diode BAST54C	21	D109~117,119,121,124,500~508
...3	ECS10716D	Capacitor Electrolytic 100uF/16V	1	EC100
...3	FCN1T1001602	FCN Down Touch ZIF SMD	1	FCN100
...3	IC74HC138D	IC 74HC138D	1	IC105
...3	IC74HC595	IC 74HC595	8	IC300~304,503~505
...3	IC74HCT157D	IC 74HCT157D	1	IC107
...3	ICCD4051BM96	IC CD4051BM96	4	IC101~103,106
...3	ICSN74LVC3G14	IC SN74LVC3G14	2	IC109,508
...3	ICTLV70033DDCT	IC TLV70033DDCT	1	IC104
...3	ICYHFRC234	IC YHFRC234 (MCF51JF128VLH+Program)	1	IC100
....4	ICMCF51JF128VLH	IC MCF51JF128VLH	1	-
...3	ICYHFRC265	IC YHFRC265 (PIC12F615+Program)	1	IC110
....4	ICPIC12F615	IC PIC12F615	1	-
...3	LDLTST-C190KSKT	Liquid-emitting Diode Amber SMD	4	LD327,328,571,572
...3	LDLTST-C191KRKT	Liquid-emitting Diode Red SMD	28	LD300,301,304,305,308,310,312,314,316,318,320,322,325,329,334,335,552,554,556,558,560,562,564,566,569,573,592,593
...3	LDLTST-C193TBKT	Liquid-emitting Diode Blue SMD	20	LD309,311,313,315,317,319,321,323,324,331,553,555,557,559,561,563,565,567,568,575
...3	LDLTST-C193TGKT	Liquid-emitting Diode Green SMD	2	LD326,570
...3	LDLTW-C191TS5	Liquid-emitting Diode White SMD	2	LD330,574
...3	MT1104417901	Ground Plate(Painting)	2	(VR134)
...3	RS000010J03	RESISTOR 0Ω 5% SMD 0603	2	R149,155
...3	RS001M10F03	RESISTOR 1M 1% SMD 0603	3	R3,147,514
...3	RS002210F03	RESISTOR 22Ω 1% SMD 0603	5	R108,124,127,168,169
...3	RS003310F03	RESISTOR 33Ω 1% SMD 0603	3	R145,151,152

...3	RS010010F03	RESISTOR 100Ω 1% SMD 0603	19	R28~31,100,140~142,146,150,170,171,176,177,188,189,509~511
...3	RS010K10F03	RESISTOR 10K 1% SMD 0603	18	R6,22,126,154,156~159,162~167,184~186,587
...3	RS015K10F03	RESISTOR 15K 1% SMD 0603	5	R148,178,179,576,577
...3	RS01K510F03	RESISTOR 1.5K 1% SMD 0603	1	R153
...3	RS022010F03	RESISTOR 220Ω 1% SMD 0603	4	R131,132,543,544
...3	RS024010F03	RESISTOR 240Ω 1% SMD 0603	24	R110,112,114,116,118,120,122,125,128,130,134,135,501,527,529,531,533,535,537,539,540,542,546,547
...3	RS039010F03	RESISTOR 390Ω 1% SMD 0603	4	R172,174,568,570
...3	RS043010F03	RESISTOR 430Ω 1% SMD 0603	28	R101,102,105,106,109,111,113,115,117,119,121,123,129,133,136,137,500,526,528,530,532,534,536,538,541,545,564,565
...3	RS04K710F03	RESISTOR 4.7K 1% SMD 0603	6	R1,2,160,161,507,508
...3	RS068K10F03	RESISTOR 68K 1% SMD 0603	2	R180,581
...3	RS470K10F03	RESISTOR 470K 1% SMD 0603	2	R182,583
...3	SC0304RINI	Screw M3X4 PPN	2	(VR134)
...3	SWDC11B2021425	Switch Rotational Encode 20Pul	3	E100,101,501
...3	SWSFKHVBD3515	Switch Tact 5mm 100g Horizonta	23	SW117~121,126,127,132,133,136~140,500~504,509,510,515,516
...3	TE622000501	5P CONNECTOR	2	(TE101,102)
...3	TR2SK1828	Mosfet N-CH 20V MAIN 2-Pin	4	Q104,106,505,507
...3	UH160808T-601Y	CAPACITOR	3	R139,143,144
...3	VRR10301506	Potentiometer Rotary 10KB 22.5	9	VR100,104,120~122,126,516~518
...3	VRR50301501	Potentiometer Rotary 50KB Cent	7	VR101~103,105~107,127
...3	VRR50301506	Potentiometer Rotary Volum:50	1	VR125
...3	VRS10304516	Potentiometer Slide 10K 45mm 1	1	VR134
...3	VRS10304519	Potentiometer Slide 10K1B 45mm	3	VR124,130,131
...3	VRS10306022	Potentiometer Slide 10K1B 60mm	2	VR133,532
...3	XTM08000X6F1	Crystal 8MHZ 49US SMD Fundamen	1	X100
..2	**TWPC13C040B01**	**Main PCB Assembly**	**1**	**39**
...3	AA822383X	IC AIC1525CS	1	IC905
...3	AL2-85-0403	IC TPS60403	1	IC907
...3	AL4-08-0402	Con USB 4-Pin Female PC-MNT Ho	1	USB900
...3	CS101J5003NPO	CCAP SMD 100pF/50V 5% 0603 NPO	10	C900,904,920,923,924,927,931,935,936,938
...3	CS104K5003X7R	CCAP SMD 0.1uF/50V 10% 0603 X7R	24	C906,910,912~916,918,919,921,922,925,929,930,934,942,944,947,949~954
...3	CS105K1603X7R	CCAP SMD 1uF/16V 10% 0603 X7R	1	C939
...3	CS106K1606X7R	CCAP SMD 10uF/16V 10% 1206 X7R	8	C901,905,907,911,917,926,937,945
...3	CS222J5003NPO	CCAP SMD 2200P 50V 5% 0603 NPO	4	C902,908,928,940
...3	CS331J5003NPO	CCAP SMD 330pF/50V 5% 0603 NPO	2	C903,909
...3	CS475K1605X5R	CCAP SMD 4.7uF/16V 10% 0805 X5R	2	C941,943
...3	DIEN1N4148WSM	Diode SMD	2	D900,901
...3	EC22810	Capacitor Electrolytic 2200UF/0V	1	EC906
...3	ECS10625BLE	ECAP Low ESR 10UF/25V 4*5.4mm	1	EC902
...3	ECS22616B	Capacitor Electrolytic 22uF/16V	4	EC905,908,911,912
...3	ECS22716E	Ecap 220uF/16V 6.3*7.7mm SMD	1	EC909
...3	ECS47525B	Ecap 4.7uF/25V 4*5.4mm SMD	1	EC907
...3	ECS47616D	Capacitor Electrolytic 47uF/16V	1	EC910
...3	FCN1T1001602	FCN Down Touch ZIF SMD	1	FCN900
...3	FSMSMD200	Fuse PTC MSMD200 8V/2A SMD	1	F900
...3	ICAK4346	IC AK4346 24Bit 6channel DAC V	1	IC902
...3	ICRC4558IDR	IC RC4558IDR	4	IC903,904,906,909
...3	ICRC4580IDR	IC RC4580IDR	2	IC900,901
...3	ICTLV70033DDCT	IC TLV70033DDCT	1	IC908

...3	RJ2008HP-11F15A	2PIN RCA JACK	1	JK900
...3	RS000004J06	RESISTOR 0Ω 5% SMD 1206	7	R953,967,971~975
...3	RS000104J06	RESISTOR 1Ω 5% SMD 1206	1	R958
...3	RS001K10F03	RESISTOR 1K 1% SMD 0603	8	R912,917,927,933,944,950,961,966
...3	RS001M10F03	RESISTOR 1M 1% SMD 0603	1	R949
...3	RS003310F03	RESISTOR 33Ω 1% SMD 0603	10	R901,904,906,909,919,920,922,925,932,934
...3	RS010010F03	RESISTOR 100Ω 1% SMD 0603	1	R951
...3	RS010K10F03	RESISTOR 10K 1% SMD 0603	17	R908,921,924,935~938,941,943,946,948,952,954,957,960,963,965
...3	RS012K10F03	RESISTOR 12K 1% SMD 0603	4	R939,940,955,956
...3	RS01K210F03	RESISTOR 1.2K 1% SMD 0603	1	R926
...3	RS03K910F03	RESISTOR 3.9K 1% SMD 0603	4	R907,923,945,962
...3	RS047K10F03	RESISTOR 47K 1% SMD 0603	3	R903,916,931
...3	RS05K110F03	RESISTOR 5.1K 1% SMD 0603	2	R900,918
...3	RS05K610F03	RESISTOR 5.6K 1% SMD 0603	2	R942,959
...3	RS100K10F03	RESISTOR 100K 1% SMD 0603	6	R914,915,929,930,947,964
...3	RS560K10F03	RESISTOR 560K 1% SMD 0603	1	R902
...3	TE10200502	5P CONNECTOR	1	(TE901)
...3	TE622000501	5P CONNECTOR	1	(TE1)
...3	TE622000901	9P CONNECTOR	1	(TE900)
...3	TR2SA1036KRM	TRANSISTOR 2SA1036K PNP	1	Q900
...3	TR2SD2114KSM	TRANSISTOR 2SD2114K NPN	6	Q902,904~908
..2	**TWPC13C040C01**	**Front CB Assembly**	**1**	**42**
...3	CS101J5003NPO	CCAP SMD 100pF/50V 5% 0603 NPO	6	C800~803,806,807
...3	CS102K5003X7R	CCAP SMD 1nF/50V 10% 0603 X7R	2	C804,805
...3	CS104K5003X7R	CCAP SMD 0.1uF/50V 10% 0603 X7R	2	C808,809
...3	ECS10616B	Capacitor Electrolytic 10uF/16V	4	EC800~803
...3	ICRC4558IDR	IC RC4558IDR	1	IC800
...3	JK-3537	3.5mm Phone Jack 9P 90° DIP	1	J800
...3	JY6317-02-030	Earphone base W/NUT	1	JK800
...3	JY6317-02-130	MIC JACK	1	JK801
...3	RS01K510F03	RESISTOR 1.5K 1% SMD 0603	2	R801,802
...3	RS056K10F03	RESISTOR 56K 1% SMD 0603	2	R800,803
...3	TE622000901	9P CONNECTOR	1	(TE800)
...3	VRR50303007	VR 50KA	1	VR800



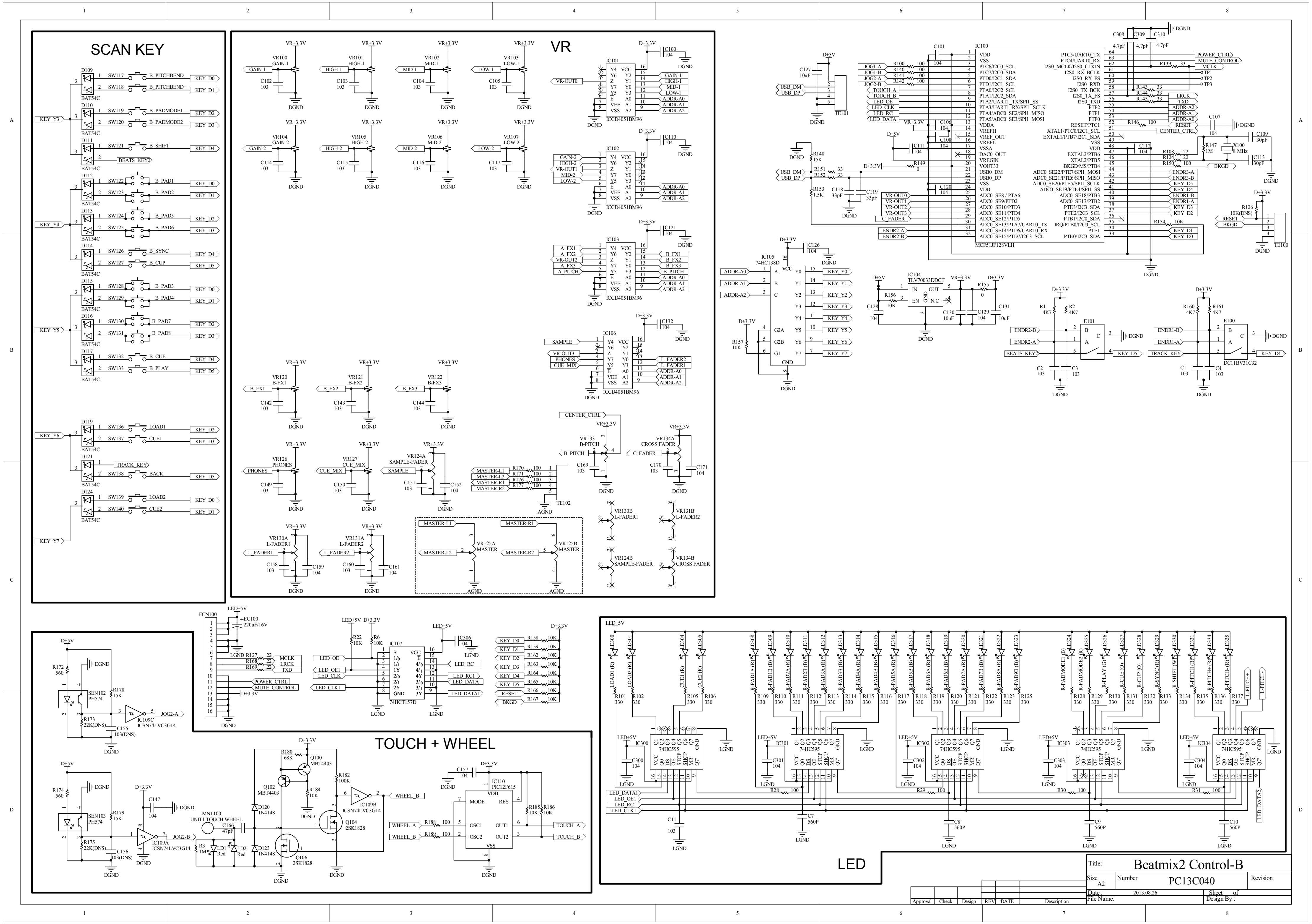
Approval	Check	Design	REV	DATE	Description

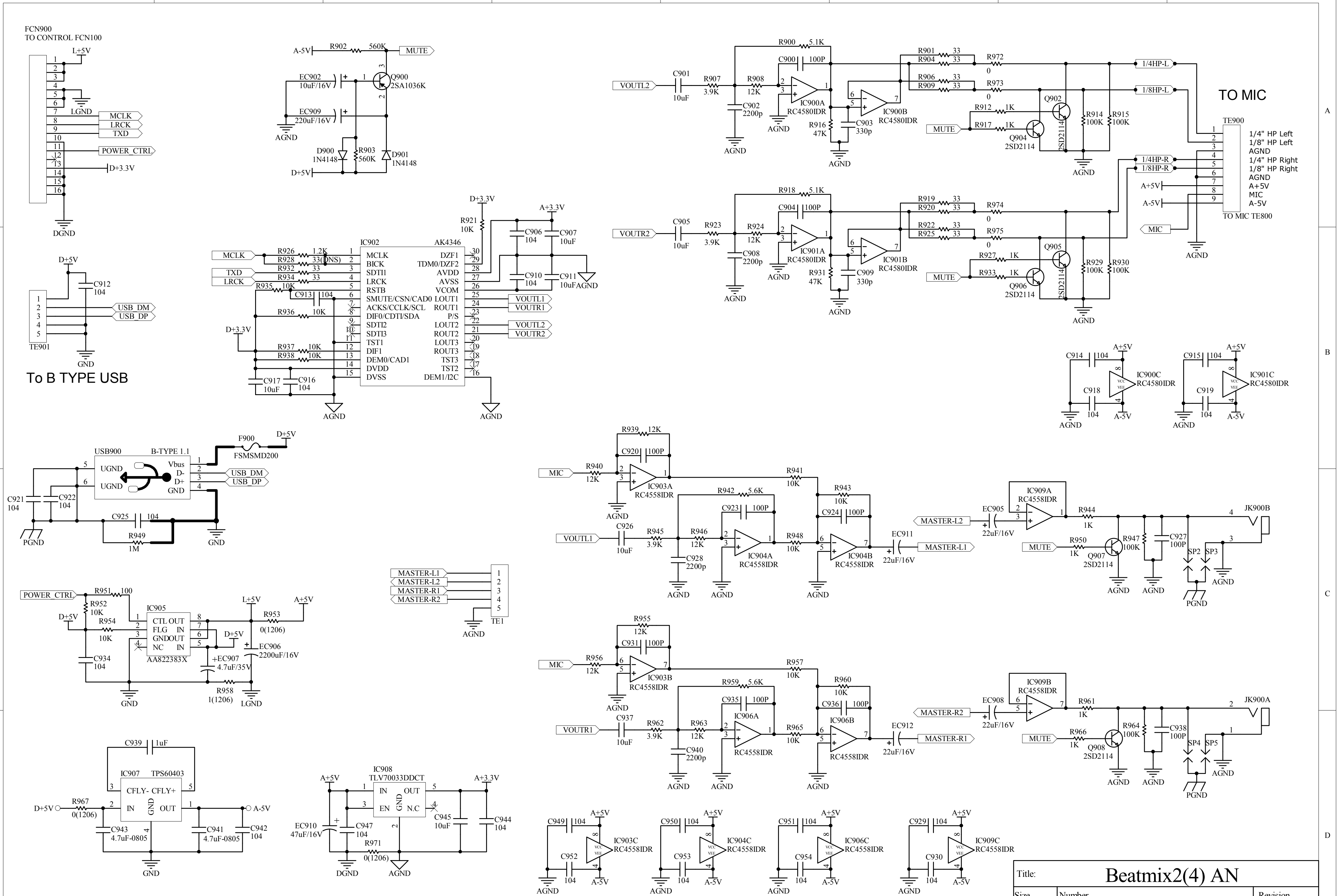
Title: **Beatmix2 CONTROL-A**

Size: A3 | Number: PC13C040 | Revision:

Date: 2013.08.26 | Sheet 1 of 1

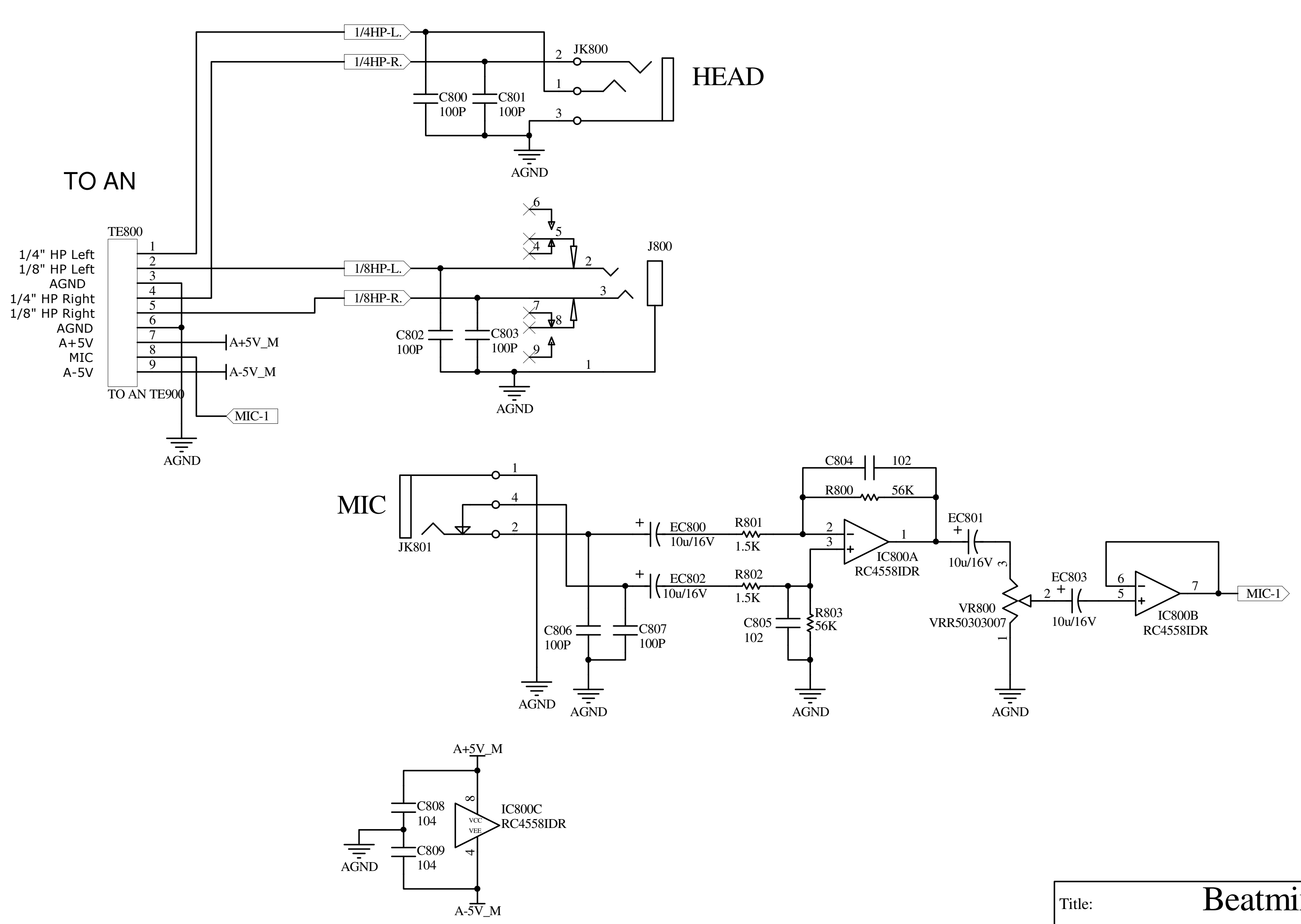
File Name: | Design By:


SCAN KEY
VR
TOUCH + WHEEL
LED
Title:
Beatmix2 Control-B
Size
A2
Number
PC13C040
Revision
Date :
2013.08.26
Sheet of
File Name:
Design By :
Approval
Check
Design
REV
DATE
Description



Title:	Beatmix2(4) AN
Size A3	Number
Revision	MP-REV(A)
Date :	2014.02.14
Sheet	of
File Name:	
Design By :	

Approval	Check	Design	REV	DATE	Description



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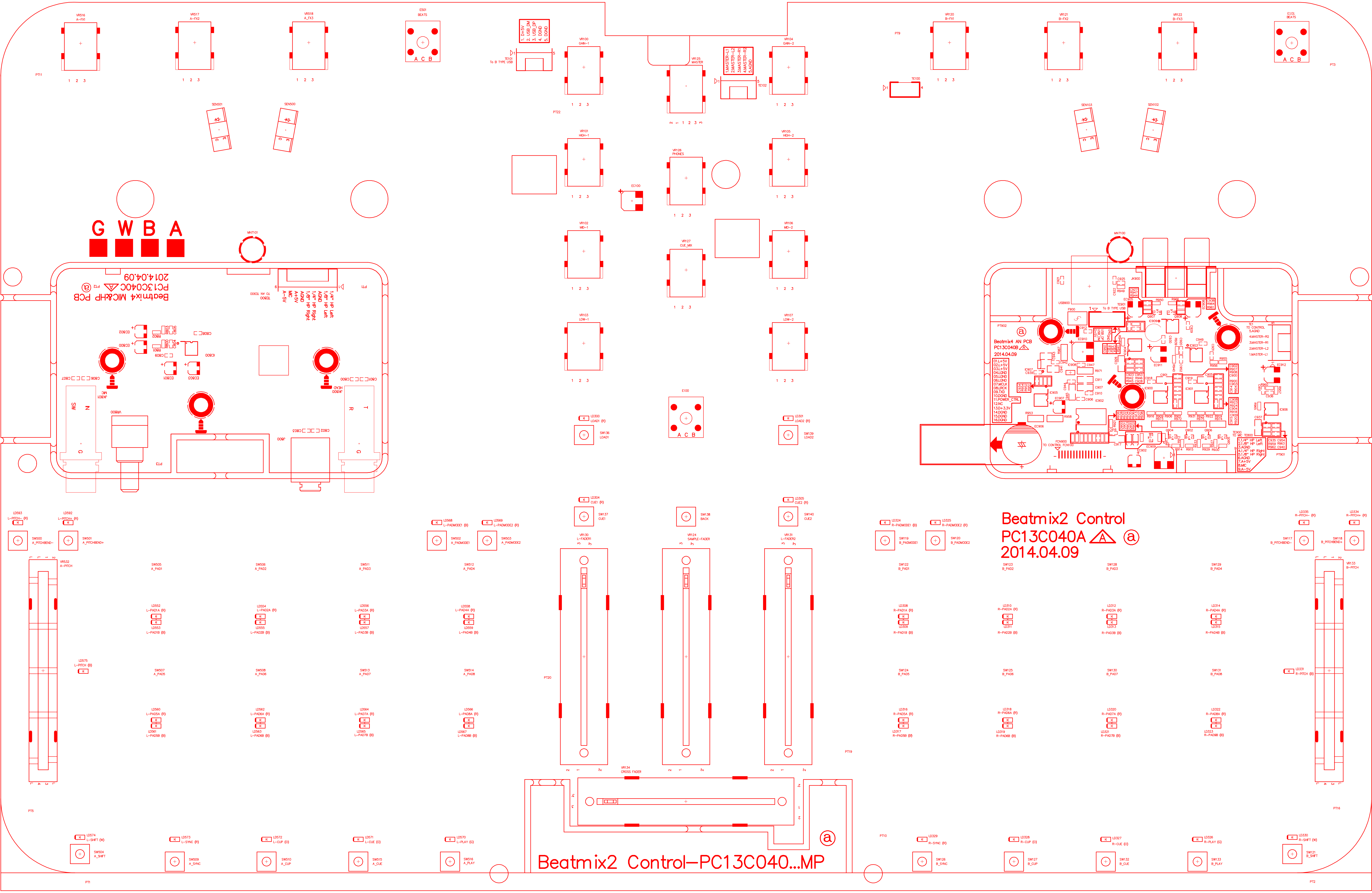
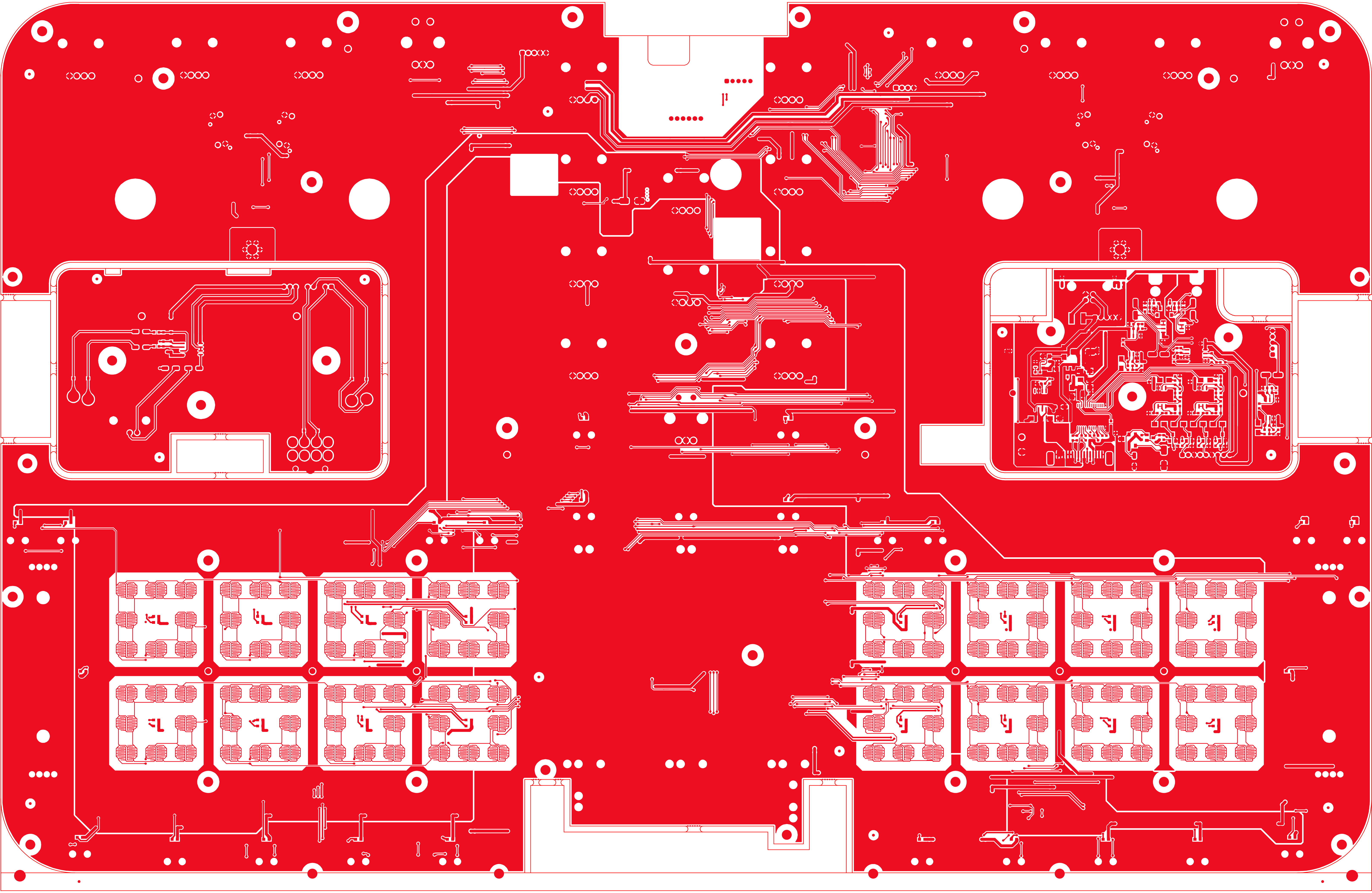
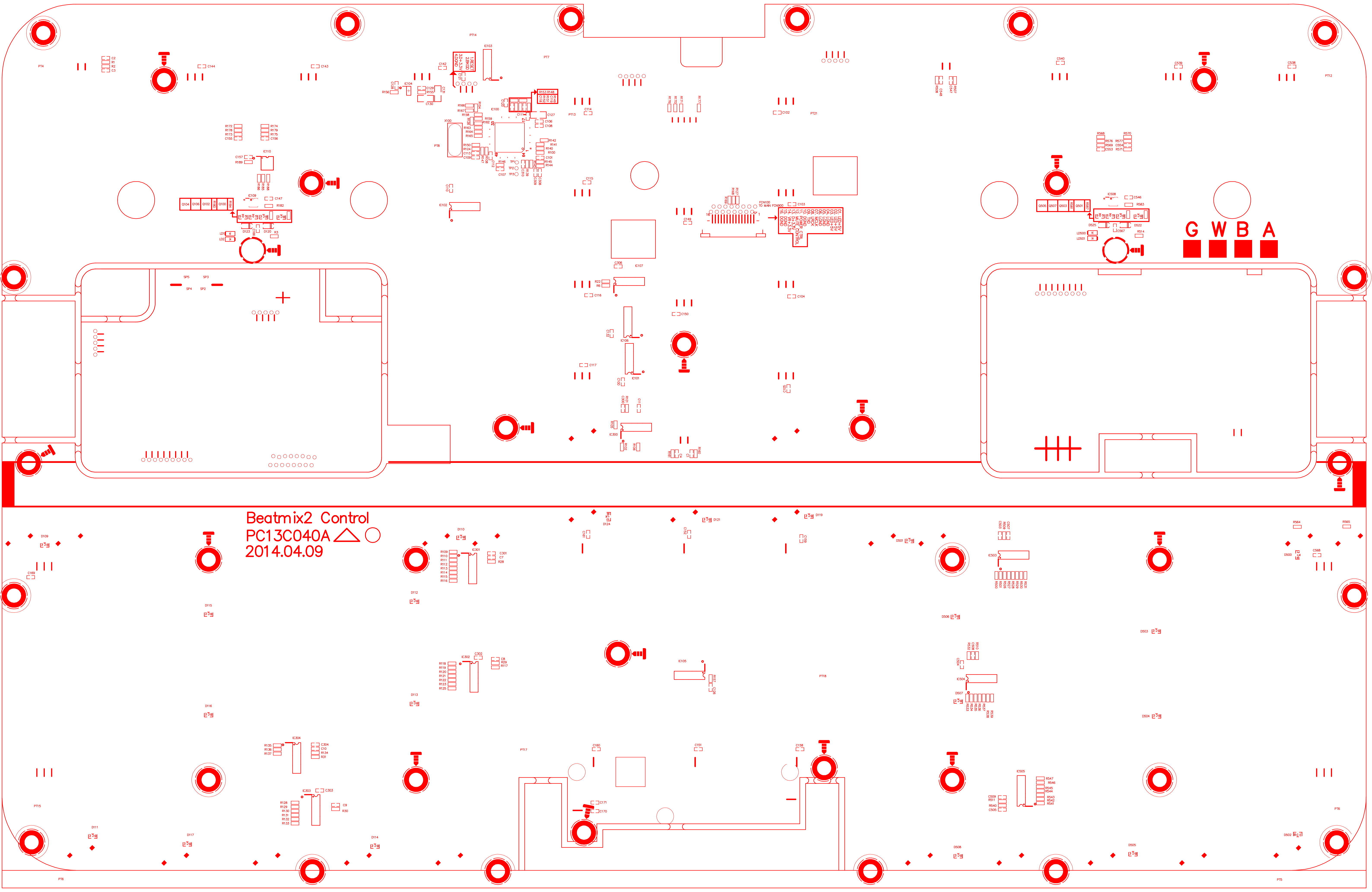
Size A4	Number	Revision MP
Date : 2013.12.27		Sheet of
File Name:		Design By :

Approval	Check	Design	REV	DATE	Description


G W B A
Beatmix4 MIC&HP PCB
PC13C040C
2014.04.09
Beatmix4 AN PCB
PC13C040B
2014.04.09
Beatmix2 Control
PC13C040A
2014.04.09
Beatmix2 Control-PC13C040...MP




G W B A
Beatmix2 Control
PC13C040A
2014.04.09