

SERVICE MANUAL

MODEL: NS6



SPECIFICATION

FUNCTION

1. **POWER IN** – Use the included power cable to connect NS6 to a power outlet. While the power is switched off, plug the cable into NS6 first, then plug the cable into a power outlet.
2. **POWER SWITCH** – Turns NS6 on and off. Turn on NS6 after all input devices have been connected and before you turn on amplifiers. Turn off amplifiers before you turn off NS6.
3. **USB** – This USB connection sends and receives audio and control information from a connected computer.
4. **MASTER OUTPUT (XLR)** – Connect this low-impedance XLR output to a PA system or powered monitors. The level of this output is controlled with the MASTER knob on the top panel.
5. **MASTER OUTPUT (RCA)** – Use standard RCA cables to connect this output to a speaker or amplifier system. The level of this output is controlled by the MASTER knob on the top panel.
6. **BOOTH/ZONE OUTPUT (RCA)** – Use standard RCA cables to connect this output to a booth monitoring system. The level of this output is controlled by the BOOTH/ZONE knob on the top panel.
7. **LINE INPUTS (RCA)** – Connect line-level devices, such as CD players, samplers or audio interfaces, to these inputs.
8. **MIC INPUT (1/4")** – Connect a 1/4" microphone to this input. Microphone controls are located on the top panel.
9. **LINE | PHONO INPUTS (RCA)** – Connect your audio sources to these inputs. These inputs can accept both line and phono-level signals.
10. **LINE | MIC SWITCH** – Flip this switch to the appropriate position, depending on the device connected to the LINE | PHONO INPUTS. If you are using a microphone, set this switch to "MIC." If using a line-level device, such as a CD player or sampler, set this switch to "LINE."
11. **LINE | PHONO SWITCH** – Flip this switch to the appropriate position, depending on the device connected to the LINE | PHONO INPUTS. If you are using phono-level turntables, set this switch to "PHONO" to provide the additional amplification needed for phono-level signals. If using a line-level device, such as a CD player or sampler, set this switch to "LINE."
12. **GROUNDING TERMINAL** – If using phono-level turntables with a grounding wire, connect the grounding wire to these terminals. If you experience a low "hum" or "buzz", this could mean that your turntables are not grounded.
13. **HEADPHONES** – Connect your 1/4" or 1/8" headphones to this output for cueing and mix monitoring.
14. **HEADPHONE VOLUME** – Adjusts the volume level of the headphone output.

15. **SPLIT CUE** – When this switch is in the ON position, the headphone audio will be "split" such that all channels sent to CUE are mixed to mono and applied to the left headphone channel and the Program mix is mixed to mono and applied to the right channel. When the switch is in the OFF position, Cue and Program audio will be "blended" together.
16. **CUE BLEND** – Turn to mix between Cue and Program in the Headphone channel. When all the way to the left, only channels routed to CUE will be heard. When all the way right, only the Program mix will be heard.
17. **CROSSFADER ASSIGN** – Routes the audio playing on the corresponding channel to either side of the crossfader (L or R), or bypasses the crossfader and sends the audio directly to the Program Mix (center, "|").
18. **CROSSFADER SLOPE** – Adjusts the slope of the crossfader curve. Turn the knob to the left for a smooth fade (mixing) or to the right for a sharp cut (scratching).
19. **FADER START** – Enables or disables "fader start" on the corresponding side of the crossfader. When fader start is enabled on one side, moving the crossfader toward that side will cause the Deck to start playing.

STANDARD

1. MaxMSP test program for production Line

2. AP test specification

Voltage	RCA Balance Output
	AC 100V~240V 50~60Hz
Volume	MASTER: $2 \pm 0.5V$
	BOOTH: $2 \pm 0.5V$
	BALANCED: $12 \pm 2V$
Distortion defection	0.03% below
S/ N	70dBr upward
Separation	70dBr upward
F/R	20~20KHz $\pm 0.5dB$

DISASSEMBLY PROCEDURES

1. REMOVAL OF BOTTOM CHASSIS. (Fig1)

(A) TAKE OUT THE 21 PCS SCREWS FROM THE BOTTOM CHASSIS.

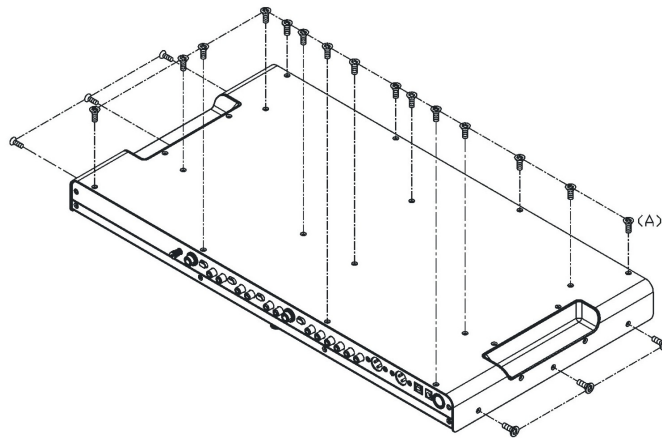


Fig.1

2.REMOVAL HEADPHONE PCB AND DOUSER ASSEMBLY AND XLR JACK ASSEMBLY. (Fig2)

(A) TAKE OUT THE 3 PCS KNOB.

(B) TAKE OUT THE 9 PCS SCREWS , TAKE OUT THE 1 PC NUT HOLDER AND TAKE OUT THE 2 PCS CONNECTORS.

(C) TAKE OUT THE 4 PCS SCREWS AND TAKE OUT THE 2 PCS PCB FROM THE CABINET.

(D) TAKE OUT THE 6 PCS SCREWS , TAKE OUT THE 2 PCS CONNECTORS AND TAKE OUT THE 2 PCS DOUSER ASSEMBLY.

(E) TAKE OUT THE 4 PCS SCREWS FROM THE XLR JACK ASSEMBLY.

(F) TAKE OUT THE 5 PCS SCREWS , TAKE OUT THE 2 PCS NUT HOLDER AND TAKE OUT THE 2 PCS CONNECTORS.FROM THE AN PCB.

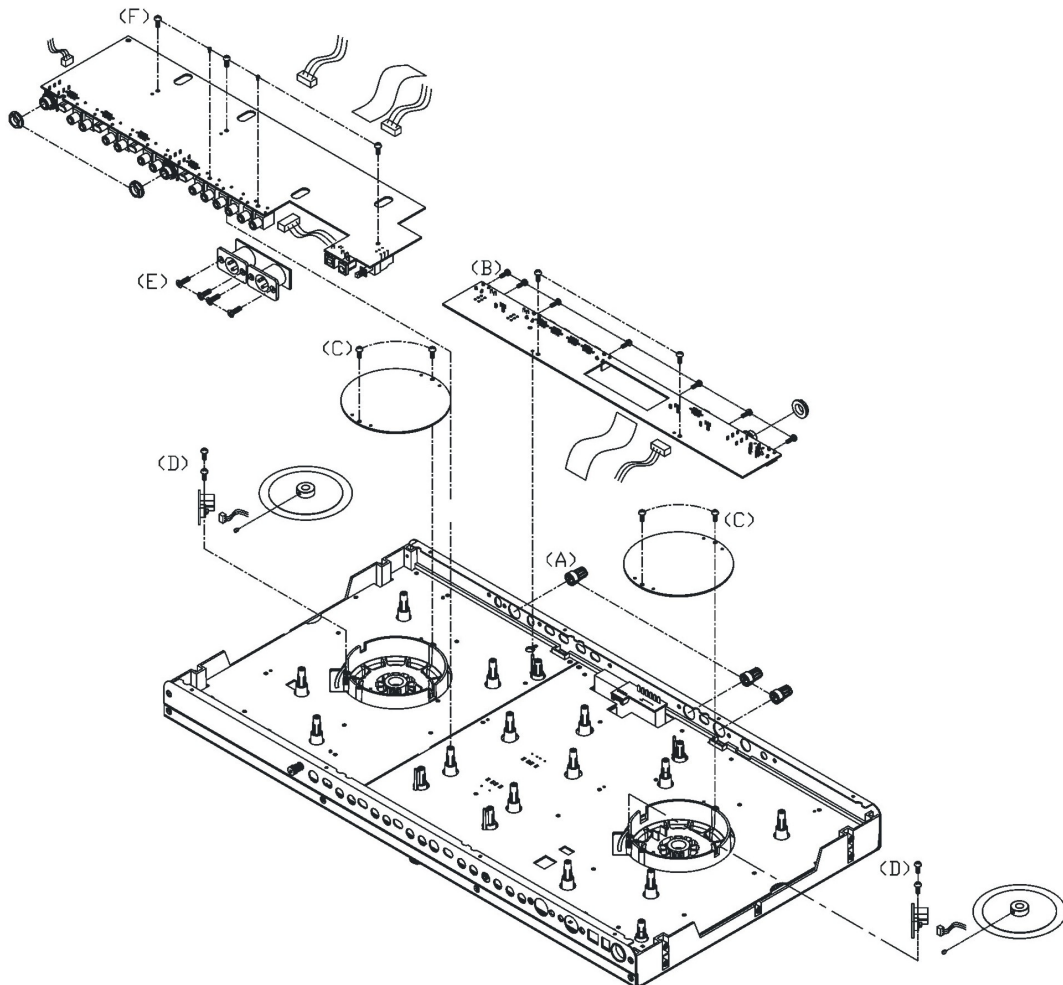


Fig.2

DISASSEMBLY PROCEDURES

3. REMOVAL OF CROSS FADER ASSEMBLY AND KNOB. (Fig3)

- (A) TAKE OUT THE 1 PC KNOB FROM THE PANEL.
- (B) TAKE OUT THE 2 PCS SCREWS AND 1 PC CONNECTORS FROM THE PANEL.
- (C) TAKE OUT THE ALL KNOB.

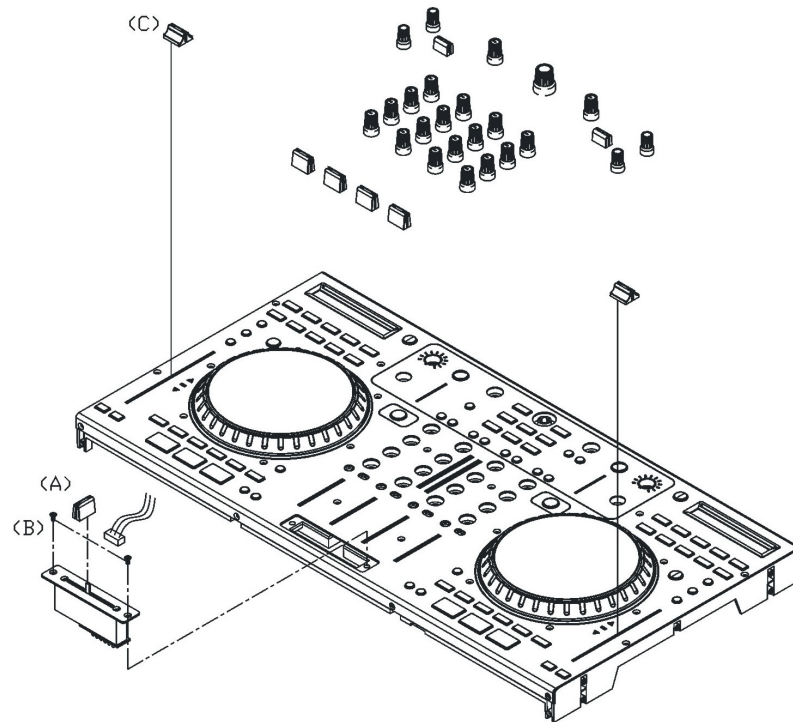


Fig.3

4. REMOVAL OF MIXER PCB AND LEFT PCB.(Fig4)

- (A) TAKE OUT THE 23 PCS SCREWS AND 6 PCS CONNECTORS FROM THE MIXER PCB.
- (B) TAKE OUT THE 16 PCS SCREWS AND 3 PCS CONNECTORS FROM THE LEFT PCB

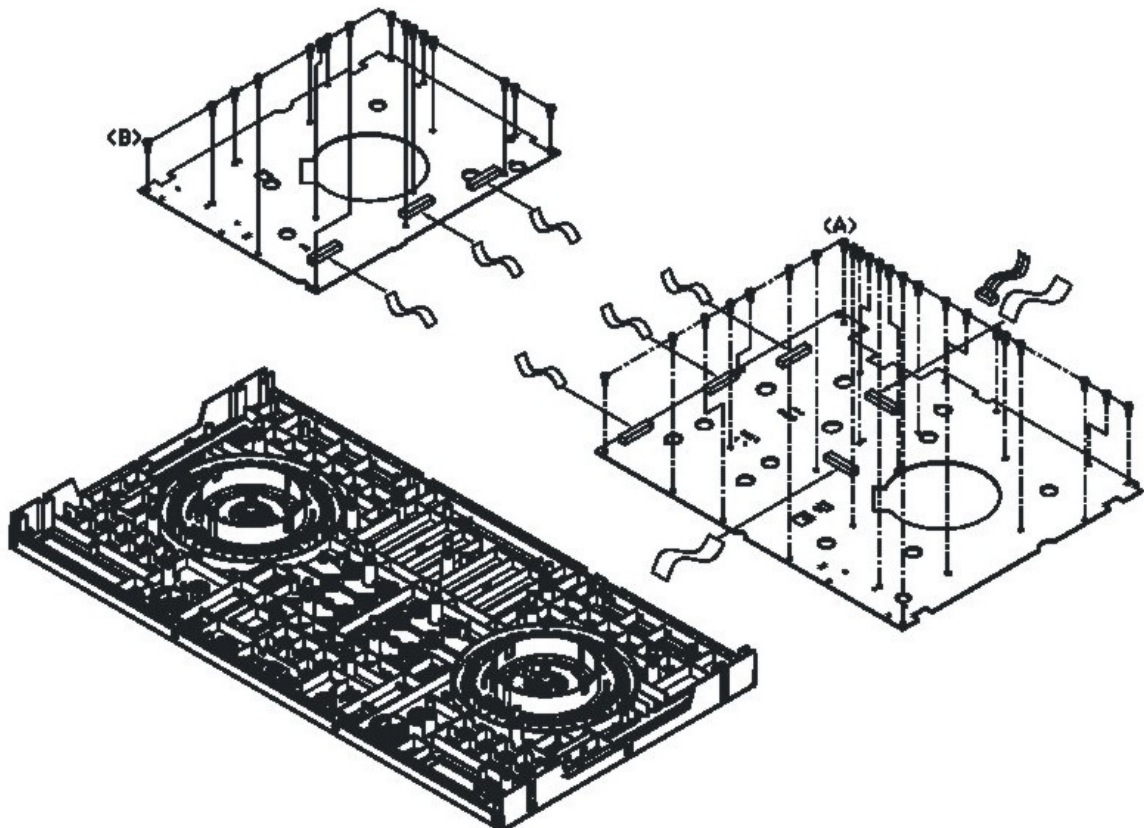
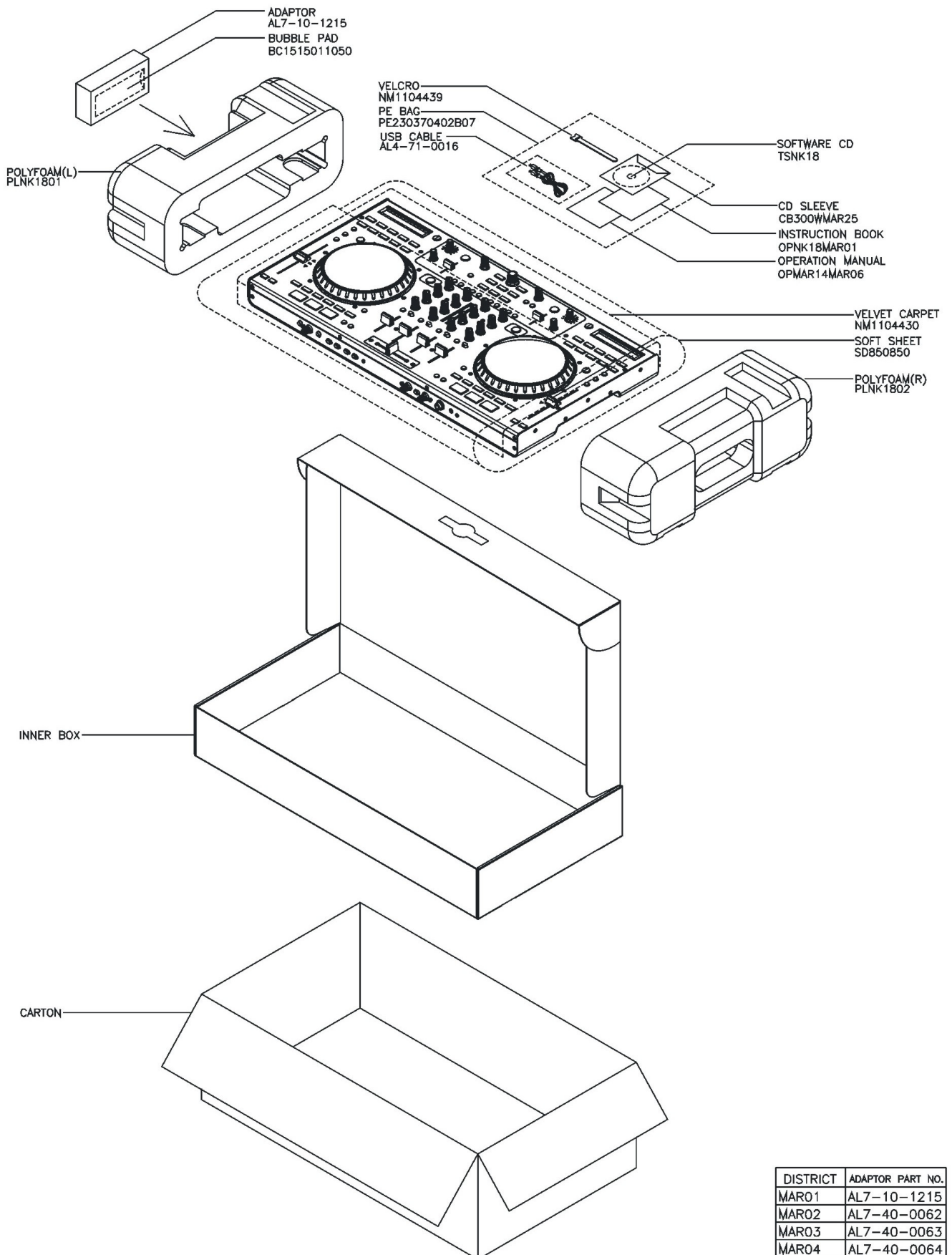


Fig.4

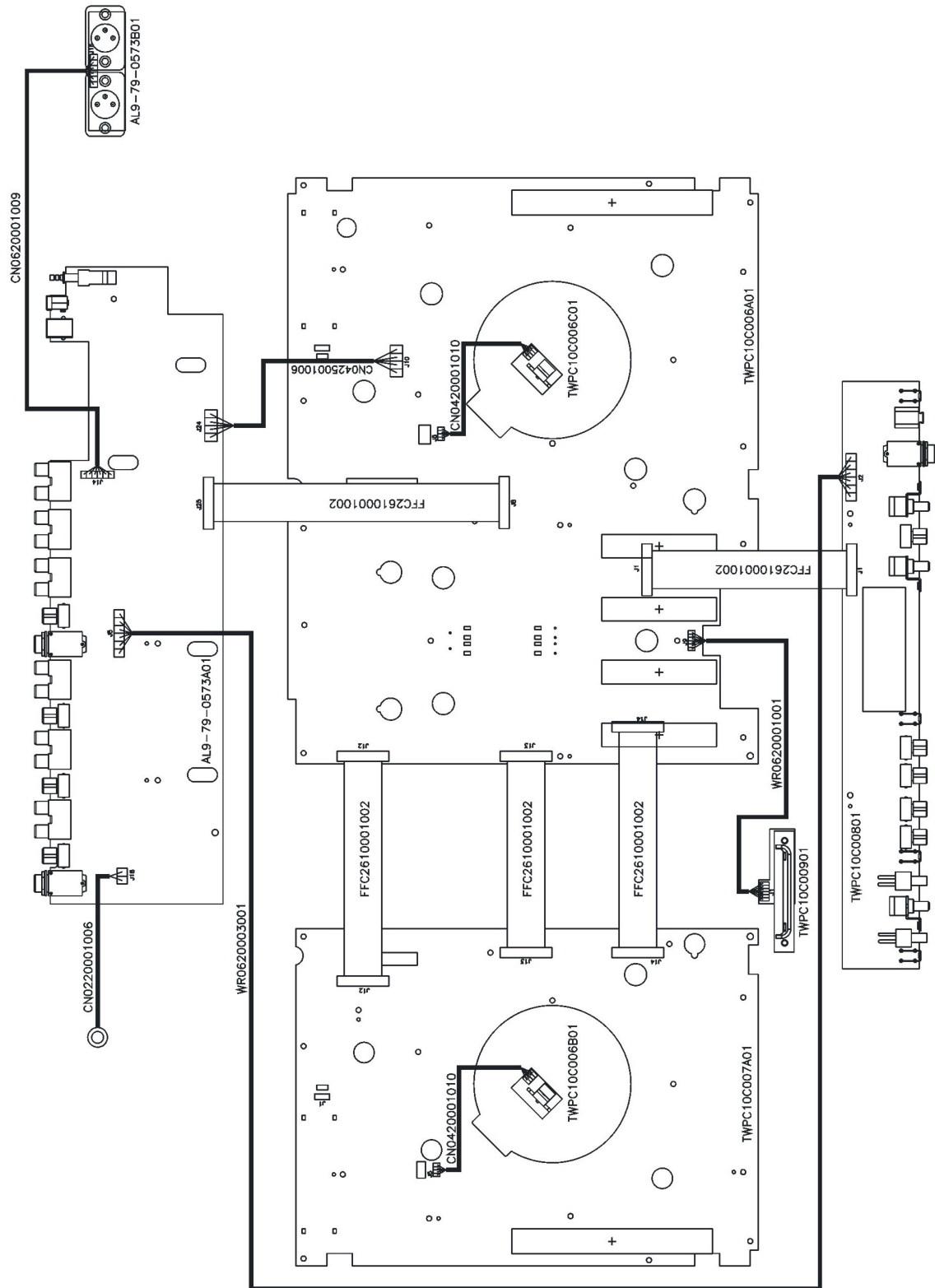
PACKING DIAGRAM NK18MAR01-04/07



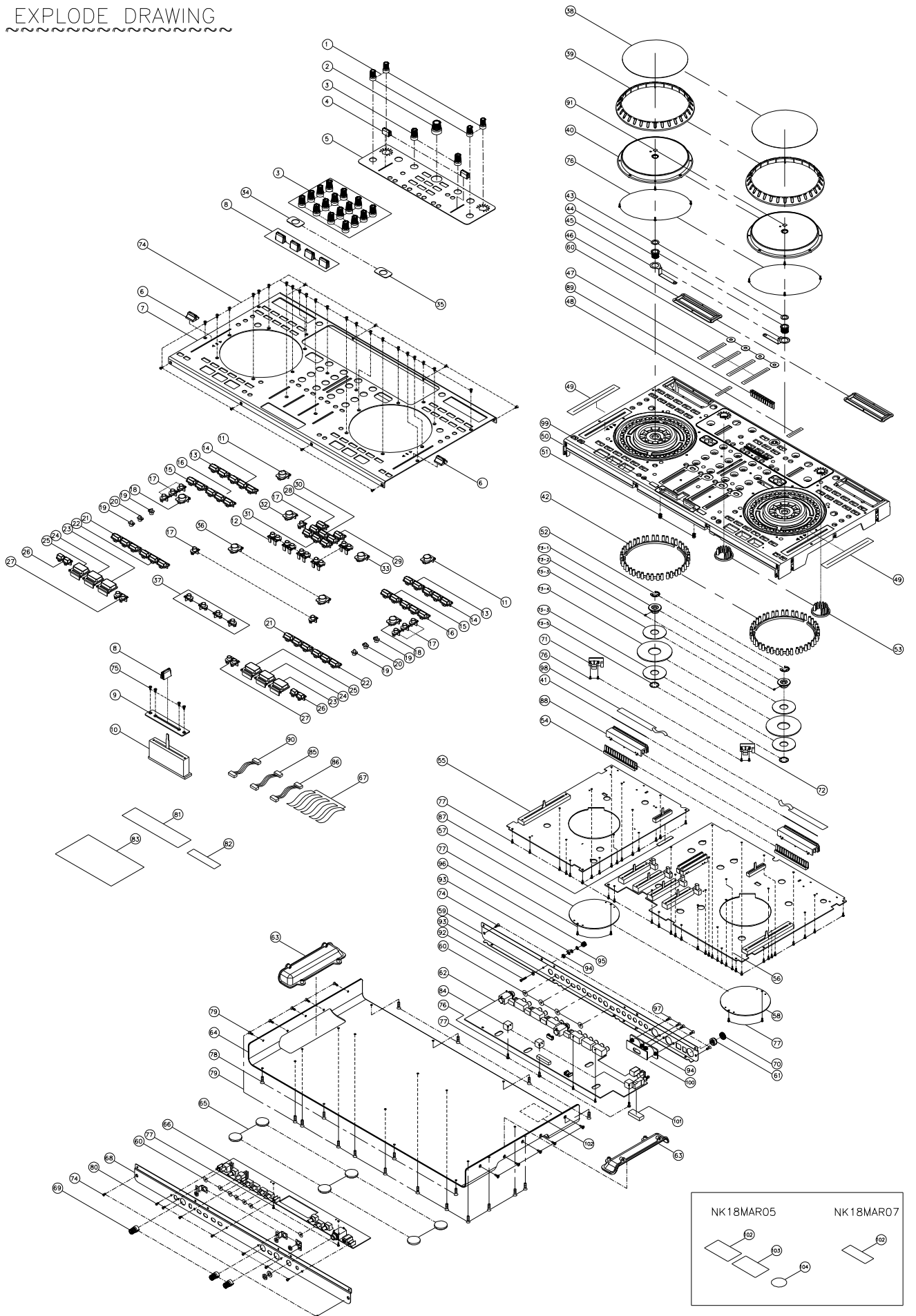
1 CARTON=1 SET

DISTRICT	ADAPTOR PART NO.
MAR01	AL7-10-1215
MAR02	AL7-40-0062
MAR03	AL7-40-0063
MAR04	AL7-40-0064
MAR07	AL7-10-1215

WIRING DIAGRAM



EXPLODE DRAWING



NK18MAR01~07 BOM

LEVEL	P/N	DESCRIPTION	QTY	REF
0.1	AL4-71-0016	CABLE USB RF CHOKE 2.0	1	
0.1	AL7-10-1215	ADAPTOR 12V2.0A 24W (01)	1	
	AL7-40-0062	ADAPTOR 12VDC/2A (EU) (02)		
	AL7-40-0063	ADAPTOR 12VDC/2A (UK) (03)		
	AL7-40-0064	ADAPTOR 12VDC/2A (AUS) (04)		
	AL7-10-1215	ADAPTOR 12V2.0A 24W (07)		
0.1	CB300WMAR25	CD Sleeve	1	
0.1	CN0220001006	Flat Cable GND Wire Black Length 100mm φ3.2 Female	1	
0.1	CN0425001006	4Pin Pitch 2.5mm Single Row Length 100mm	1	86
0.1	EVA1104415	EVA	1	87
0.1	FFC2610001002	FFC 26Pin Pitch 1.0mm Length:100mm	5	67
0.1	LAC22MAR403	S/N BAR CODE LABEL	1	81
0.1	LAC57MAR659	Safety Label	1	83
0.1	LAC62MAR404	BAR CODE LABEL	2	
0.1	LAC62MAR631	Label(date)	1	82
0.1	LAC62MAR667	BAR Code Label (CODE 39)	1	
0.1	LAC67MAR680	Label (FSR)	2	41
0.1	LAC67MAR681	Label	3	
0.1	LAC67YAH261	Sticker φ8mm Green	1	
0.1	MT0705517	COPPER	2	51
0.1	MT1101838	Ground Plate	2	45
0.1	MT112047102	FRONT PANEL PRINTING	1	68
..2	MT112047101	FRONT PANEL PAINTING	1	
...3	MT1120471	FRONT PANEL	1	
0.1	MT112047202	REAR PANEL PRINTING	1	59
..2	MT112047201	REAR PANEL PAINTING	1	
...3	MT1120472	REAR PANEL	1	
0.1	MT1120477	Power Button Cover	1	70
0.1	MT113008301	Panel(Anodizeing + Printing)	1	7
0.1	MT113009201	Panel(CROSS FADER)Anodizeing+Printing	1	9
0.1	MT113034901	Bottom Chassis Painting	1	64
0.1	MT5105509	COPPER SPINDLE	2	44
0.1	NM1104412	VELVET CARPET	15	60
0.1	NM1104417	VELVEV CARTPET	2	49
0.1	NM1104438	VELCRO	1	102
0.1	NM1106129	Velvet Carpet	2	48
0.1	NM1106130	Velvet Carpet	4	47
0.1	NM1106131	Conducti Fabric	2	99
0.1	NP211MAR140	Display Plate	1	5
0.1	NP211MAR142	Name Plate	1	34
0.1	NP211MAR148	Name Plate	1	35
0.1	NP311MAR141	Wheel Plate	2	38
0.1	NUT01030IID	Nut	5	94
0.1	NUT05030ICU	Nut	1	96
0.1	OTFSR5K	Force Sensing Resistor	2	98
0.1	PNK18MAR01	PACKAGE ASS'Y	1	
..2	BC1015011050	Bubble Pad	1	
..2	CGNK18513MAR01	Inner Box	1	
..2	CTNK18513MAR01	CARTON	1	
..2	NM1104430	Velvet Carpet	1	
..2	NM1104439	VELCRO	1	
..2	OPNK14MAR06	Operation Manual	1	
..2	OPNK18MAR01	INSTRUCTION BOOK	1	
..2	PE230370402B07	Poly Bag 230*370mm	1	
..2	PLNK1801	POLYFOAM (LEFT)	1	
..2	PLNK1802	POLYFOAM (RIGHT)	1	
..2	SD850850	SOFT SHEET	1	
0.1	PT0710620801	KNOB	1	2
0.1	PT0710621101	KNOB	3	69
0.1	PT0710624609	Button(ON/OFF)Printing	2	14
..2	PT07106246	KNOB	2	

0.1	PT0710624610	Button Printing	2	16
..2	PT07106246	KNOB	2	
0.1	PT0710624611	Button(DELETE) Printing	2	21
..2	PT07106246	KNOB	2	
0.1	PT0710624612	Button(3~5)Printing	2	22
..2	PT07106246	KNOB	2	
0.1	PT0710624613	Button(CRATES)Printing	1	30
..2	PT07106246	KNOB	1	
0.1	PT0710624614	Button(LOAD A)Printing	1	31
..2	PT07106246	KNOB	1	
0.1	PT0710624714	Button(FX A)Printing	1	32
..2	PT07106247	KNOB	1	
0.1	PT0710624715	Button(FX B)Printing	1	33
..2	PT07106247	KNOB	1	
0.1	PT0710624716	Button(LAYER)Printing	2	36
..2	PT07106247	KNOB	2	
0.1	PT0710624801	KNOB(CUE)	2	24
..2	PT07106248	KNOB	2	
0.1	PT0710624808	Button(DII)Printing	2	23
..2	PT07106248	KNOB	2	
0.1	PT0710624809	Button(SYNC)Printing	2	25
..2	PT07106248	KNOB	2	
0.1	PT1104416001	Side Cap PAINTING SOFT TOUCH	2	63
..2	PT11044160	Side Cap	2	
0.1	PT1104416101	Plastic Bezels Paiting	2	46
..2	PT11044161	Plastic Bezels	2	
0.1	PT11044162	FIXED HOLDER(FSR)	2	88
0.1	PT1110612401	VR KNOB PAINTING ABS+TPR	2	6
0.1	PT1110613601	KNOB	18	3
0.1	PT1110613701	KNOB	4	1
0.1	PT11106151	POWER BUTTON	1	61
0.1	PT11106163	VR KNOB	5	8
0.1	PT11106178	VR KNOB PAINITING ABS+ABS	2	4
0.1	PT1110619641	Button TAP Printing	2	11
..2	PT11106196	KNOB	2	
0.1	PT1110619642	Button(SCRATCH)Painting	2	18
..2	PT11106196	KNOB	2	
0.1	PT1110625501	Button(1/2X)Printing	2	13
..2	PT11106255	Button	2	
0.1	PT1110625502	Button(1/2X)Printing	2	15
..2	PT11106255	Button	2	
0.1	PT1110625601	Button(BACK)Printing	1	28
..2	PT11106256	Button	1	
0.1	PT1110625602	Button(FWD)Printing	1	29
..2	PT11106256	Button	1	
0.1	PT11106275	Lid (FSR)	2	54
0.1	PT11106276	Lid	2	53
0.1	PT11106283	Light Pipe	6	42
0.1	PT1110628401	Button(A.B)Printing	5	12
..2	PT11106284	Button(Circuler)	5	
0.1	PT1110628402	Button(Circuler)Printing	2	27
..2	PT11106284	Button(Circuler)	2	
0.1	PT1110628701	Button (+,-)(Printing)	2	26
..2	PT11106287	Button	2	
0.1	PT11106290	Lid	1	89
0.1	PT11106306	Lid	2	20
0.1	PT11106307	Lid	4	19
0.1	PT1110631601	Buttom Painting	9	17
..2	PT11106316	Buttom	9	
0.1	PT1110631602	Buttom Painting	4	37
..2	PT11106316	Buttom	4	
0.1	PT1110730	Wheel Frame	2	40
..2	MT1105543	Wheel Plate Axis	2	
0.1	PT111073401	Wheel Frame Painting	2	39

..2	PT1110734	Wheel Frame	2	
0.1	PT1130209	TOP HOUSING	1	50
0.1	PU008008001	Pu Foam	2	91
0.1	PU010010010	QUARANTINE CLOTH	3	84
0.1	PU014006006	Qurantine Cloth	1	101
0.1	RN109111	FIXED RING	2	52
0.1	RU0730605	RUBBER FOOT	6	65
0.1	SC0305FA2IBI	Screw M3X5 HFB	4	75
0.1	SC0305PIBI	SCREW M3X5 PPB	7	80
0.1	SC0308ABBI	Screw(FLAT)	34	74
0.1	SC0308ABNI	Screw	21	79
0.1	SC0308AINI	Screw	8	78
0.1	SC0308FIBNI	Screw M3*8 PFB W/NYLOC	4	97
0.1	SC0308RBNI	SCREW M3X8 PRN TAPPING	50	77
0.1	SC0314PMJI	Screw M3X14 PPN	1	92
0.1	SC2605RBNI	SCREW M2.6X5 PPN TAPPING	14	76
0.1	TSNK18	CD	1	
0.1	TWNP632YAH10601	Douser Assembly	2	
..2	MT321004001	DOUSER PLATE FIXED BASE	2	73-1
..2	MT3210070	PLATE	4	73-3
..2	NP632YAH106	DOUSER	2	73-4
..2	RN0416001	CS RING	2	73-5
..2	SC0303SIBI	SCREW M3X3 HXB	2	73-2
0.1	WR0620001001	Isolation Cable 6Pin Single Row Pitch 2.0mm Length 10	1	85
0.1	WR0620003001	Isolation Cable 6Pin Single Row Pitch 2.0mm Length 30	1	90
0.1	WS073307IC	Washer Flat	3	93
0.1	WS113008204IB	Washer	2	43
0.1	WS663309IC	Spring Washer 3#	1	95
0.1	AL9-79-0573	AN PCB ASS'Y	1	
..2	AL9-40-0573	AN PCB	1	
..2	AL9-79-0573A01	AN PCB ASS'Y	1	62
...3	AA822757X	TRANSISTOR 2SC3326 NPN	12	Q1~8,13~16
...3	AL0-17-0103	RESISTOR ARRAY 4X10K 1/10W 0603	3	R41,42,219
...3	AL0-17-0470	RESISTOR ARRAY 4X47 1/10W 0603	6	R181,192,209,212,225,226
...3	AL1-08-0474	Capacitor Electrolytic 47uF/16V 5*11mm	1	C208
...3	AL2-50-4149	Diode Single 1N4148 100V 200mA SOT-23	2	D4,7
...3	AL2-51-0340	DIODE POWER SCHOTTKY MBRA340T3 40V 3A SM	7	D2,5,6,8,12,16,17
...3	AL2-51-4401	TRANSISTOR 2N4401 NPN	2	Q10,19
...3	AL2-51-4403	TRANSISTOR 2N4403 PNP	3	Q9,11,17
...3	AL2-54-6306	Mosfet FDC6306P P-CH SSOT-6	1	Q18
...3	AL2-61-0431	REG LM431 2.5V-37V 100MA 2% SOT-23	1	U32
...3	AL2-61-5000	IC REG VOLTAGE NCP500SN25T1 2.5V SOT23-5	1	U30
...3	AL2-63-0126	IC SINGLE BUS BUFFER GATE WITH SN74AHCT1G1	1	U27
...3	AL2-71-3079	IC MC33079 QUAD OP-AMP SOP-14	3	U3,6,11
...3	AL2-74-0181	IC OPTO-ISOLATOR TLP181 TRANS-OUT SMD	1	SEN1
...3	AL4-02-0007	JACK 1/4 STEREO 7-PIN FEM MINI W/GRND LUG STRAI	2	J1,5
...3	AL4-08-0402	Con USB 4-Pin Female PC-MNT Horizontal	1	J11
...3	AL7-01-0046	Crystal 12MHZ 49US SMD Fundamental	1	X1
...3	AL7-20-0067	INDUCTOR 33uH 1.8A SMD	1	L7
...3	AL7-20-0087	Inductor 15uH 2.3A ±15% 10.5×9.0mm DIP	1	L4
...3	CS101J5003NPO	CERAMIC 100pF/50V 5% 0603 NPO	32	C4~16,18,19,23,30,31,34,35,57,60,64,73,91,100,106,110,154,159,163,167
...3	CS102J5003NPO	CERAMIC 1nF/50V 5% 0603 NPO	6	C63,74,105,111,162,168
...3	CS103K2502X7R	CERAMIC 0.01UF/25V 10% 0402 X7R	14	C3,92,95,148,160,175,204~206,209,210,219,221,225
...3	CS104K2502X5R	CERAMIC 0.1UF/25V 10% 0402 X5R	90	C1,2,20,29,38,39,45~52,54,62,67,72,75~77,84,86,88,93,94,96~98,102,103,109,113,115,116,118,120,121,125~129,131,132,134,136,139,140,142,144,145,147,149~151,156,157,161,166,170,176,177,184~188,192,193,195,196,199,200,203,207,211~216,220,222,226,227,231,236~238
...3	CS104K5003X7R	CERAMIC 0.1uF/50V 10% 0603 X7R	12	C40,41,79,124,158,164,172,178,189,R188,252,257
...3	CS105K1003X5R	CERAMIC 1uF/10V 10% 0603 X5R	12	C21,114,117,141,155,183,194,218,223,228,229,230
...3	CS152J5003NPO	CERAMIC 1500PF/50V 5% 0603 NPO	4	C42,43,55,56
...3	CS180J5003NPO	CERAMIC 18pF/50V 5% 0603 NPO	6	C22,69,101,119,122,123

...3	CS221J5003NPO	CERAMIC 220pF/50V 5% 0603 NPO	4	C28,37,44,53
...3	CS272J5003NPO	CERAMIC 2.7nF/50V 5% 0603 NPO	8	C179~182,224,232~234
...3	CS471J5003NPO	CERAMIC 470pF/50V 5% 0603 NPO	8	C107,112,130,135,137,138,197,201
...3	CS472J5005NPO	CERAMIC 4.7nF/50V 5% 0805 NPO	4	C32,33,58,59
...3	DISDBAT54SSM	Diode BAT54S 30V 0.2A SOT-23	8	D9~11,13~15,21,22
...3	EC10625TS	Capacitor Electrolytic 10uF/25V 5*5mm	1	C87
...3	EC10725T	Capacitor Electrolytic 100uF/25V 6.3*11mm	1	C61
...3	EC22616TS	Capacitor Electrolytic 22uF/16V 5*5mm	7	C82,143,171,190,198,217,235
...3	EC22716TS	Capacitor Electrolytic 220uF/16V 8*5mm	1	C202
...3	EC22735TLE	Capacitor Electrolytic low ESR 220u/35V 10*13mm	3	C83,99,146
...3	EC47525TLE	Capacitor Electrolytic low ESR 4.7uF/25V 5*11mm	1	C68
...3	EC47635TLE	Capacitor Electrolytic low ESR 47uF/35V 6.3*11mm	16	C17,24~27,36,70,71,89,90,104,108,152,153,169,174
...3	EC47725TLE	Capacitor Electrolytic LOW-ESR 470UF/25V 5X10X13mm	2	C133,191
...3	ECS68606DLE	ECAP 68uF/6.3V 6.3X5.4mm SMD-D LOWESR	1	C78
...3	FCN1T1002602	FCN Down Touch ZIF SMD Pitch=1.0mm 26P	1	J25
...3	IC74AHC1G08GV	IC74AHC1G08 SOT23-5	1	U14
...3	IC74AHC245PW	IC SN74AHC245PWR	2	U15,20
...3	IC74AHCT245PW	IC SN74AHCT245PWR	1	U8
...3	ICAP1501K5L	IC AP1501K5L	1	U10
...3	ICAP1510SL-13	IC AP1510SL-13	1	U22
...3	ICBA033FP	IC BA033FP	1	U21
...3	ICBF531	IC DSP ADSP-BF531	1	U17
...3	ICCS4385-CQZ	IC CS4385-CQZ	1	U28
...3	ICCS5368	IC CS5368	1	U26
...3	ICISP1583BS	IC ISP1583BS	1	U4
...3	ICLM393DR	IC LM393DR	1	U31
...3	ICMC33078DR2G	IC MC33078DR2G	7	U1,2,5,9,12,24,29
...3	ICMIC809SU	IC MIC809SU	1	U16
...3	ICNJM-2114M	IC NJM-2114M	2	U13,19
...3	ICUSBLC62SC6	IC USBLC62SC6	1	D1
...3	ICYHFRC163	IC YHFRC163 (AL2-80-0256+Program)	1	U18
...4	AL2-80-0256	IC LCMX0256	1	-
...3	ICYHFRC164	IC YHFRC164 (ICATMEGA162+Program)	1	U7
...4	ICATMEGA162	IC ATMEGA162	1	-
...3	JKDJ-0702B-020	DC BASE 2.0MM	1	J12
...3	RJ1039-09-0580B	RCA Jack(One Output)	6	J2~4,6~8
...3	RS000004J06	RESISTOR 0Ω 5% SMD 1206	1	R249
...3	RS000010J03	RESISTOR 0Ω 5% SMD 0603	25	R1,2,6,8,10~14,16,18,19,22,24,26,32,40,43,44,48,117~120,258
...3	RS001K10F03	RESISTOR 1K 1% SMD 0603	17	R34~39,47,53,132,142~145,162,169,234,248
...3	RS001M10F03	RESISTOR 1M 1% SMD 0603	2	R3,30
...3	RS003303F10	RESISTOR 33Ω 1% SMD 1210	8	R153~156,176~179
...3	RS004710F03	RESISTOR 47Ω 1% SMD 0603	16	R49,55,94,101,106,110,114,148,151,199,216,217,229,231~233
...3	RS010010F03	RESISTOR 100Ω 1% SMD 0603	4	R45,62,64,74
...3	RS010K10F03	RESISTOR 10K 1% SMD 0603	27	R46,63,65,75,89~92,99,100,104,105,109,111,157,164,170,189,198,204,205,213,247,250,260,262,263
...3	RS012K10F03	RESISTOR 12K 1% SMD 0603	1	R50
...3	RS01K110F03	RESISTOR 1.1K 1% SMD 0603	8	R121,127,128,131,182,187,190,197
...3	RS01K310F03	RESISTOR 1.3K 1% SMD 0603	1	R194
...3	RS01K510F03	RESISTOR 1.5K 1% SMD 0603	1	R51
...3	RS01K610F03	RESISTOR 1.6K 1% SMD 0603	8	R83,85,86,88,95,98,102,103
...3	RS022108F05	RESISTOR 221Ω 1% SMD 0805	8	R4,5,27~29,33,52,54
...3	RS039K10F03	RESISTOR 39K 1% SMD 0603	4	R67,68,71,73
...3	RS043210F03	RESISTOR 432Ω 1% SMD 0603	11	R76,133,140,141,150,168,172,201,202,210,215
...3	RS047010F03	RESISTOR 470Ω 1% SMD 0603	1	R259
...3	RS04K710F03	RESISTOR 4.7K 1% SMD 0603	1	R261
...3	RS063410F03	RESISTOR 634Ω 1% SMD 0603	12	R56,61,77,82,135,138,158,161,166,174,220,223
...3	RS082510F03	RESISTOR 825Ω 1% SMD 0603	8	R134,139,149,152,167,173,214,218
...3	RS100K10F03	RESISTOR 100K 1% SMD 0603	12	R7,9,15,17,20,21,23,25,31,171,180,206
...3	RS14K310F03	RESISTOR 14.3K 1% SMD 0603	4	R84,87,96,97
...3	RS16K910F03	RESISTOR 16.9K 1% SMD 0603	1	R253
...3	RS2K9410F03	RESISTOR 2.94K 1% SMD 0603	1	R251
...3	RS3K0110F03	RESISTOR 3K01 1/10W SMD 1/10W 0603	1	R207

...3	RS3K3210F03	RESISTOR 3.32K 1% SMD 0603	10	R107,108,123,125,146,147,184,185,195,200
...3	RS430K10F03	RESISTOR 430K 1% SMD 0603	4	R66,69,70,72
...3	RS47K510F03	RESISTOR 47.5K 1% SMD 0603	4	R112,113,115,116
...3	RS4K7510F03	RESISTOR 4.75K 1% SMD 0603	4	R208,211,227,228
...3	RS56K210F03	RESISTOR 56.2K 1% SMD 0603	4	R57,60,78,81
...3	RS681K10F03	RESISTOR 681K 1% SMD 0603	4	R58,59,79,80
...3	RS6K6510F03	RESISTOR 6.65K 1% SMD 0603	8	R122,126,129,130,183,186,191,196
...3	RS6K8110F03	RESISTOR 6.81K 1% SMD 0603	1	R193
...3	RS8K6610F03	RESISTOR 8K66±1% SMD 0603	1	R124
...3	RS90R910F03	RESISTOR 90.9Ω 1% SMD 0603	8	R136,137,159,160,165,175,221,222
...3	SWSBH22B-10K	SWITCH,SHAKE,DUAL,ROW,90°	4	S1~4
...3	SWSPUN19C606	Switch Push 2P2T Dual-Row Lock	1	SW1
...3	TCS107M040B	Solid Tantalum Electrolytic Capacitors100uF/4V	1	C85
...3	TE10200601	6P CONNECTOR	1	(J15)
...3	TE10200602	6P CONNECTOR	1	J14
...3	TE512540801	Pin Header 180° Pitch=2.54mm Single Row 8Pin DIP	1	(J23)
...3	TE562540601	TERMINAL 6P 2.54MM	1	(J13)
...3	TE622000201	2P CONNECTOR	1	(J18)
...3	TE622500403	4P CONNECTOR	1	(J24)
...3	TRFDS9431A	Mosfet FDS9431A P-CH SOIC-8	1	Q12
...3	UH160808T-102Y	BEAD 1000Ω 100MHZ 0603	1	L1
...3	UHACM2012900-2P	CHOKE 90Ω 0.4A 2.0X1.2mm	1	L2
...3	UHPIC1207-221M	INDUCTOR SMD 220UH	2	L5,6
...3	UHSQD105T-751	Common Inductor 700Ω ±35% 10.3X8mm	1	L3
...3	XTM08000X6F1	Crystal 8MHZ 49US SMD Fundamental	1	X3
...3	XTM16000X6	Crystal 16MHZ 49US SMD Fundamental	1	X2
...3	XTM225792O9	Crystal Oscillator 22.5792MHz SMD	1	X4
..2	AL9-79-0573B01	XLR Jack PCB ASS'Y	1	100
...3	CN0620001009	6P/2.0mm/100mm Female Header	1	J16
...3	JKA89M108B-3N	XLR Jack 3Pin 180° Base (Black)	2	J9,10
0.1	TWPC10C00601	MIXER PCB ASS'Y	1	
..2	PC10C006	MIXER PCB	1	
..2	TWPC10C006A01	Mixer PCB ASS'Y	1	56
...3	AL0-09-0044	VARIABLE RESISTOR	1	P25
...3	AL0-17-0103	RESISTOR ARRAY 4X10K 1/10W 0603	2	R79,80
...3	AL0-17-0272	RESISTOR ARRAY 4X2.7K 1/16W 0603	20	R16,26,103~107,127,134~139,159,164,435,437~439
...3	AL0-17-0470	RES Array 4X47 1/10W 0603	2	R7,69
...3	AL2-50-4149	Diode Single 1N4148 100V 200mA SOT-23	2	D3,4
...3	AL2-51-4403	Transistor 2N4403 PNP SOT-23	2	Q17,19
...3	AL2-65-0114	IC 74AHC1G14 SOP-5	1	U3
...3	AL7-20-0067	INDUCTOR 33uH 1.8A SMD	1	L5
...3	CN0420001010	4Pin Pitch 2.0mm Single Row Length 100mm	1	J5
...3	CS102J5003NPO	CERAMIC 1nF/50V 5% 0603 NPO	40	C7~9,11,19,25~27,80,88,94,96,100~102,106,108,110~113,115~118,121~123,126~137
...3	CS103K5003X7R	CERAMIC 0.01uF/50V 10% 0603 X7R	1	C114
...3	CS104K5003X7R	CERAMIC 0.1uF/50V 10% 0603 X7R	87	C1,4~6,10,12~14,18,20~22,24,28,30,31,33,34,37,38,40~44,47~66,68~79,81~87,89~93,95,97~99,103~105,107,109,119,120,124,138,142,144,223,229,230
...3	CS106K0605X5R	CERAMIC 10uF/6.3V 10% 0805 X5R	3	C45,46,125
...3	CS180J5003NPO	CERAMIC 18pF/50V 5% 0603 NPO	2	C2,3
...3	DISDSK34SM	Schottky Barrier Rectifiers Diode SK34 D0-214AB	1	D18
...3	EC47725TLE	Capactor Electolytic LOW-ESR 470UF/25V 5X10X13mm	2	C17,150
...3	ECS22616C	Capacitor Electrolytic 22uF/16V C type SMD	4	C15,29,35,143
...3	FCN1T1000401	FCN Up Touch ZIF SMD Pitch=1.0mm 4P	1	(J3)
...3	FCN1T1002602	FCN Down Touch ZIF SMD Pitch=1.0mm 26P	5	J1,8,12~14
...3	IC2-77-0103	Touch IC (2-77-0103)	1	U2
...3	IC74ACT574PW	IC 74ACT574PW	14	U13~18,27~29,31,37~40
...3	IC74AHCT245PW	IC SN74AHCT245PWR	12	U5,6,9~11,30,49~54
...3	IC74HC138D	IC 74HC138D	6	U19~22,24,25
...3	IC74HC4051PW	IC 74HC4051PW	4	U1,4,12,34
...3	IC74LV574PW	IC SN74LV574APWR	5	U33,42,44~46
...3	ICAP1510SL-13	IC AP1510SL-13	1	U23

...3	ICBA033FP	IC BA033FP	1	U26
...3	ICSN74HC14D	IC SN74HC14D	1	U8
...3	ICYH99C03	IC YH99C03 (STM32F102R8T6+Program)	1	U7
...4	ICSTM32F102R8T6	IC STM32F102R8T6 TQFP64	1	-
...3	LDKPT-2012QWF-D	LED White SMD 0805	47	LED1~9,11,13,34,38,39,42,45,55,59,78~93,122,124,126,128,164,166,168,170,176,203,205,208,210
...3	LDKPTC2012SURCK	RED LED KPTC2012 SURCK 0805	106	LED10,12,14~33,35~37,40,41,43,44,46~54,56~58,60~75,121,123,125,127,129,131,132~137,139~143,145~150,163,165,167,169,171~174,177~180,202,204,211~219,238,243,244
...3	LDYH-11R9W2	LED BAR	2	LEDB2,3
...3	RS000004J06	RESISTOR 0Ω 5% SMD 1206	1	R0
...3	RS000010J03	RESISTOR 0Ω 5% SMD 0603	1	R440
...3	RS000110F03	RESISTOR 1Ω 1% SMD 0603	1	R2
...3	RS001K10F03	RESISTOR 1K 1% SMD 0603	4	R41,246~248
...3	RS001M10F03	RESISTOR 1M 1% SMD 0603	8	R15,52,234~236,243~245
...3	RS004710F03	RESISTOR 47Ω 1% SMD 0603	63	R1,11,13,18,21~24,27,30,34~36,38~40,42,43~45,51,53~66,72,73,75~77,81,89,93~95,108~118,124,125,129~131,161,162
...3	RS010K10F03	RESISTOR 10K 1% SMD 0603	10	R3,4,20,37,67,68,71,141~143
...3	RS013010F03	RESISTOR 130Ω 1% SMD 0603	44	R140,144,145,147,148,152~158,169,172~184,188,250,366~381
...3	RS01K310F03	RESISTOR 1.3K 1% SMD 0603	1	R97
...3	RS022010F03	RESISTOR 220Ω 1% SMD 0603	39	R190,191,193,194,204~213,233,238,239,241,249,305,307,309,311,328,351,353,355,357,403~413
...3	RS033010F03	RESISTOR 330Ω 1% SMD 0603	52	R120,146,149~151,167,185~187,189,192,195,196~203,214~218,220~222,225~232,240,304,306,308,310,350,352,354,356,361,362,364,387,390,392,436
...3	RS033K10F03	RESISTOR 33K 1% SMD 0603	2	R6,9
...3	RS047010F03	RESISTOR 470Ω 1% SMD 0603	7	R251,256~258,393~395
...3	RS047510F03	RESISTOR 475Ω 1% SMD 0603	2	R5,8
...3	RS04K310F03	RESISTOR 4.3K 1% SMD 0603	22	R400~402,414~426,428~433
...3	RS068K10F03	RESISTOR 68K 1% SMD 0603	1	R33
...3	RS075010F03	RESISTOR 750Ω 1% SMD 0603	10	R160,163,165,168,170,171,252~255
...3	RS100K10F03	RESISTOR 100K 1% SMD 0603	3	R31,32,237
...3	RS3K0110F03	RESISTOR 3K01 1/10W SMD 1/10W 0603	1	R133
...3	RS6K8110F03	RESISTOR 6.81K 1% SMD 0603	1	R82
...3	SWDC11B2021431	Switch Rotational Encode 20Pulse Push 18.8mm	2	E2,3
...3	SWEVQ11L05R	Switch Tact 5mm 160g Horizontal DIP	54	S1~8,13~15,18~21,31~38,40~69,72
...3	SWSSFUB22-10K	Switch Slide Single Row 180°	4	S9~12
...3	TE10200601	6P CONNECTOR	1	(J9)
...3	TE622500403	4P CONNECTOR	1	(J10)
...3	TE962542001	TERMINAL 20P 2.54MM	1	(J2)
...3	TR2SK1828	MOSFET N-CH 20V MAIN 2-Pin	2	Q5,6
...3	VRR10301701	VARIABLE 10KB	6	P1,2,5,26,27,41
...3	VRR10301704	Potentiometer Rotary Volume 10K2B	12	P6,9,14,16,17,20,28,30,31,33~35
...3	VRS10303006	Potentiometer Slide 10k 15mm	1	P24
...3	VRS10310013	Potentiometer Rotary Volume 10KB	1	P23
...3	VRS50304524	Potentiometer Slide 50K2B	4	P15,21,32,36
...3	XTM08000X6F1	Crystal 8MHZ 49US SMD Fundamental	1	X1
..2	TWPC10C006B01	SenSer PCB ASS'Y	1	71
...3	CS104K5003X7R	CERAMIC 0.1uF/50V 10% 0603 X7R	1	C251
...3	DIHEDS-9700F50	Optical Encoder	1	PH1
...3	TE622000401	4P CONNECTOR	1	(CON10)
..2	TWPC10C006C01	SenSer PCB ASS'Y	1	72
...3	CS104K5003X7R	CERAMIC 0.1uF/50V 10% 0603 X7R	1	C252
...3	DIHEDS-9700F50	Optical Encoder	1	PH2
...3	TE622000401	4P CONNECTOR	1	(CON11)
..2	TWPC10C006D01	Shielding PCB ASS'Y	1	57
0.1	TWPC10C00701	LEFT CONTROL PCB ASS'Y	1	

..2	PC10C007	LEFT CONTROL PCB	1	
..2	TWPC10C007A01	LEFT PCB ASS'Y	1	55
...3	AL0-09-0044	VARIABLE RESISTOR	1	P40
...3	AL0-17-0272	RESISTOR ARRAY 4X2.7K 1/16W 0603	8	R103~107,127,135,159
...3	AL2-50-4149	Diode Single 1N4148 100V 200mA SOT-23	2	D3,4
...3	AL2-51-4403	TRANSISTOR 2N4403 PNP	2	Q17,19
...3	AL2-65-0114	IC 74AHC1G14	1	U3
...3	CN0420001010	4Pin Pitch 2.0mm Single Row Length 100mm	1	J5
...3	CS102J5003NPO	CERAMIC 1nF/50V 5% 0603 NPO	19	C7,9~23,27,80,88
...3	CS104K5003X7R	CERAMIC 0.1uF/50V 10% 0603 X7R	25	C2~4,24,53~55,57,61~63,65,76~79,87,89~93,97,101,102
...3	ECS22616C	Capacitor Electrolytic 22uF/16V C type SMD	2	C29,35
...3	FCN1T1000401	FCN Up Touch ZIF SMD Pitch=1.0mm 4P	1	J1
...3	FCN1T1002602	FCN Down Touch ZIF SMD Pitch=1.0mm 26P	3	J12~14
...3	IC74ACT574PW	IC 74ACT574PW	13	U2,4,15~17,27~29,31,37~40
...3	IC74AHCT245PW	IC SN74AHCT245PWR	4	U49~52
...3	LDKPT-2012QWF-D	WHITE LED SMD 0805	38	LED1~9,11,13,34,42,45~52,55,59,61,64,65,69,70,76,122,124,126,128,164,166,168,170,176
...3	LDKPTC2012SURCK	RED LED KPTC2012 SURCK 0805	80	LED10,12,14~33,35~39,40,41,43,44,53,54,56~58,60,62,63,66~68,71~75,121,123,125,127,129,131~137,139~143,145~150,163,165,167,169,171,172,177~180
...3	RS000010J03	RESISTOR 0Ω 5% SMD 0603	2	C1,R64
...3	RS001K10F03	RESISTOR 1K 1% SMD 0603	4	R51,246~248
...3	RS010K10F03	RESISTOR 10K 1% SMD 0603	1	R54
...3	RS013010F03	RESISTOR 130Ω 1% SMD 0603	44	R140,144,145,147,148,152~158,169,172~184,189,250,366~381
...3	RS022010F03	RESISTOR 220Ω 1% SMD 0603	27	R190,191,193,194,204~213,238,239,241,249,305,307,309,311,328,351,353,355,357
...3	RS033010F03	RESISTOR 330Ω 1% SMD 0603	38	R149~151,185~188,192,195,196,214~218,220,221,222,225~232,240,304,306,308,310,350,352,354,356,361,362,364
...3	RS033K10F03	RESISTOR 33K 1% SMD 0603	2	R4,9
...3	RS047010F03	RESISTOR 470Ω 1% SMD 0603	6	
...3	RS068K10F03	RESISTOR 68K 1% SMD 0603	1	R29
...3	RS075010F03	RESISTOR 750Ω 1% SMD 0603	4	R252~255
...3	RS100K10F03	RESISTOR 100K 1% SMD 0603	2	R28,50
...3	SWDC11B2021431	Switch Rotational Encode 20Pulse Push 18.8mm	1	E2
...3	SWEVQ11L05R	Switch Tact 5mm 160g Horizontal DIP	31	S1~3,31~38,40~59
...3	TR2SK1828	MOSFET N-CH 20V MAIN 2-Pin	2	Q5,6
...3	VRS10303006	Potentiometer Slide 10k 15mm	1	P39
...3	VRS10310013	Potentiometer Rotary Volume 10KB Shaft Length 100mm	1	P38
..2	TWPC10C007B01	Shielding PCB ASS'Y	1	58
0.1	TWPC10C00801	Headphone PCB ASS'Y	1	66
..2	AL4-02-0007	JACK 1/4 STEREO 7-PIN FEM MINI W/GRND LUG STRAI	1	J11
..2	CS104K5003X7R	CERAMIC 0.1uF/50V 10% 0603 X7R	3	C1,50,68
..2	EC22616TS	Capacitor Electrolytic 22uF/16V 5*5mm	1	C15
..2	FCN1T1002602	FCN Down Touch ZIF SMD Pitch=1.0mm 26P	1	J1
..2	JK-3537	Bahf Base 3.5φ	1	J3
..2	MT11044128	Fixed Plate	4	-
..2	MT1104492	HOLDER PLATE	3	(P1,17,26)
..2	PC10C008	Headphone PCB	1	-
..2	SWDS-11L-10K	Switch SLIDE 2P2T	2	S19,57
..2	SWSBH22B-10K	SWITCH,SHAKE,DUAL,ROW,90°	1	S58
..2	SWSKV-23D21	SWITCH	4	S10~12,16
..2	TE10200601	6P CONNECTOR	1	(J2)
..2	VRR10301502	VARIABLE RESISTANCE	3	P1,17,26
0.1	TWPC10C00901	CROSS FADER PCB ASS'Y	1	10
..2	PC10C009	HP PCB	1	-
..2	TE10200602	6P CONNECTOR	1	(J1)
..2	VRS50304526	Potentiomeper Slide 50KB 45mm 11mm dual-Unit	1	VR1

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D

C

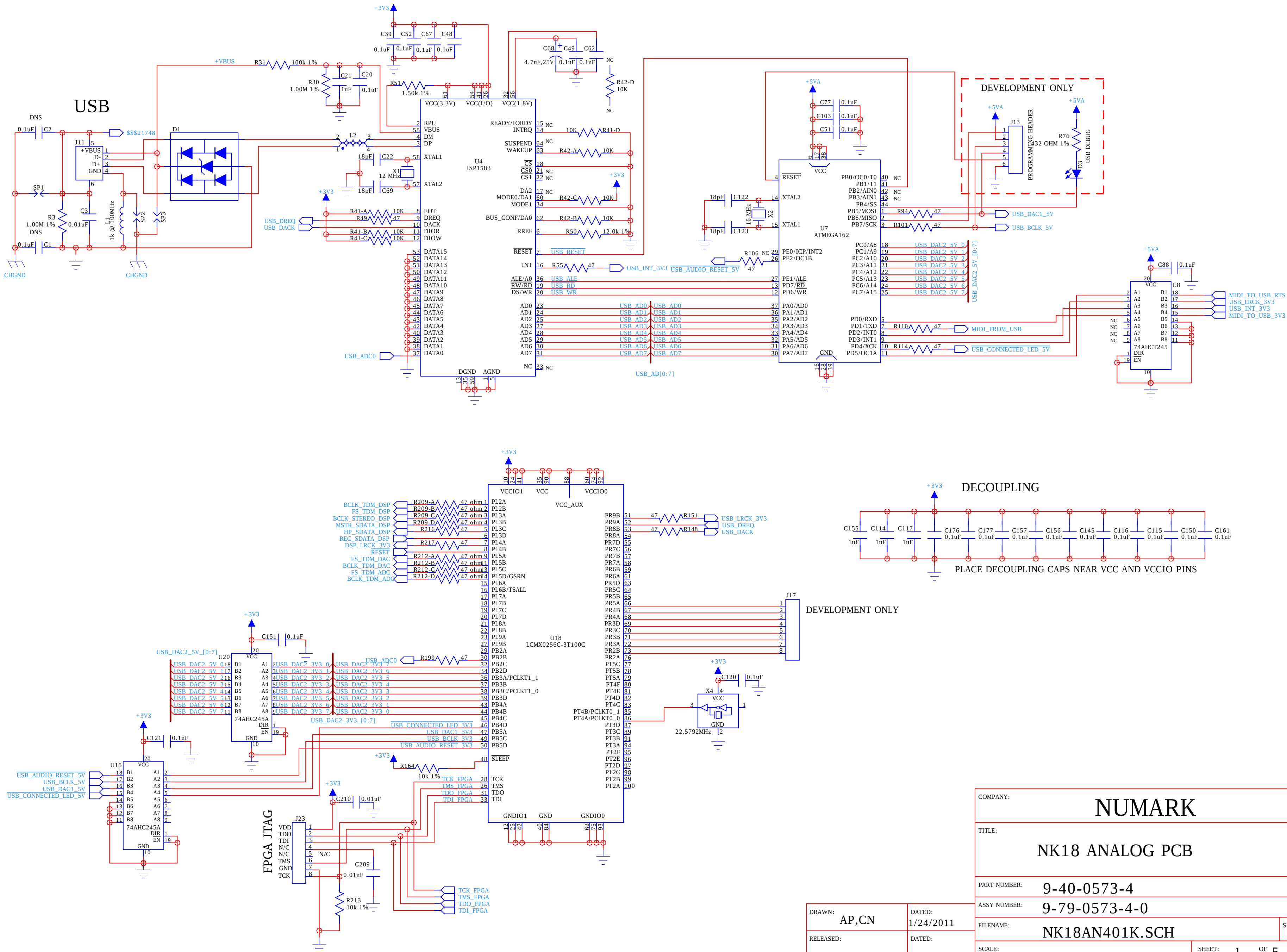
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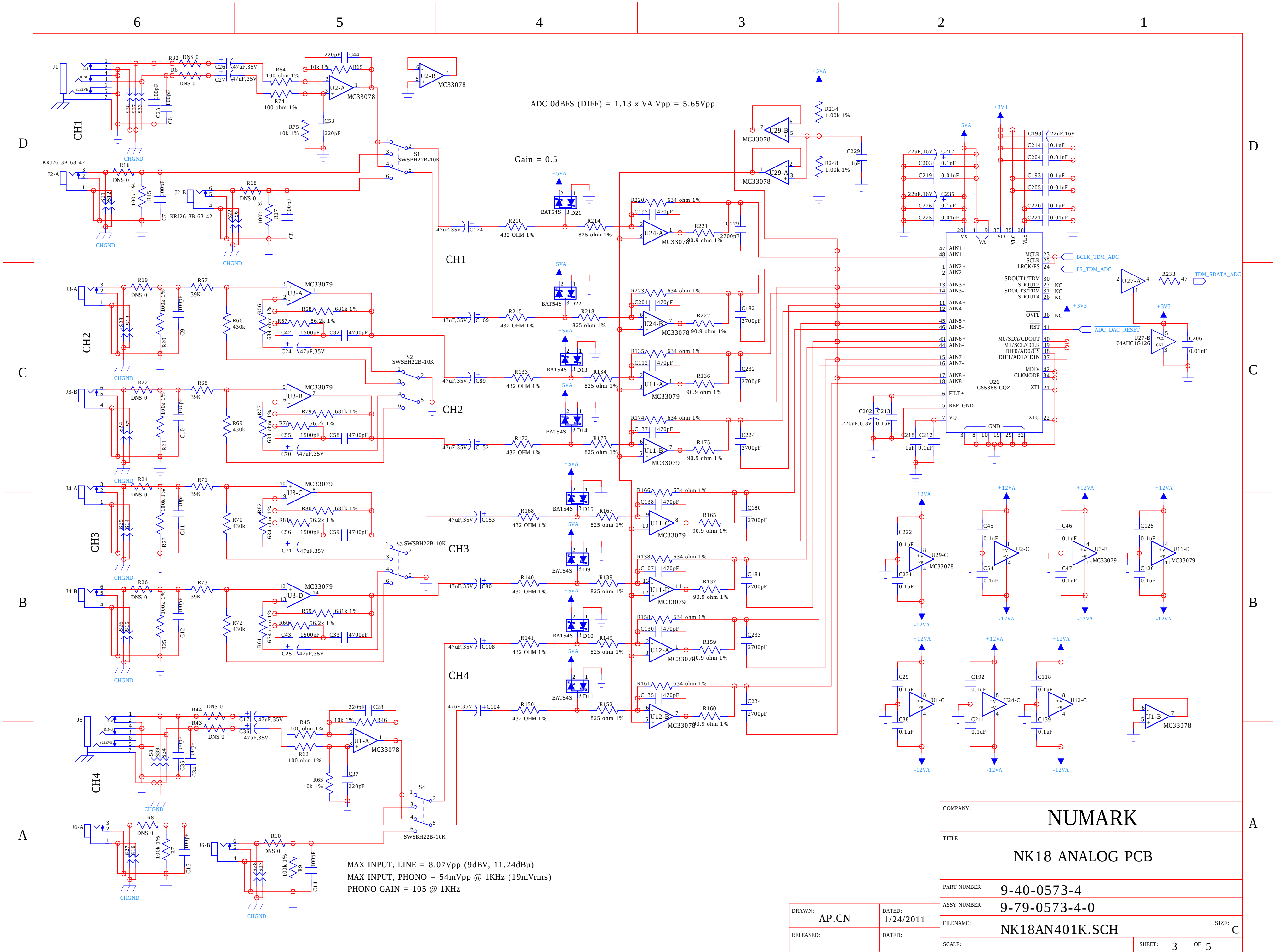
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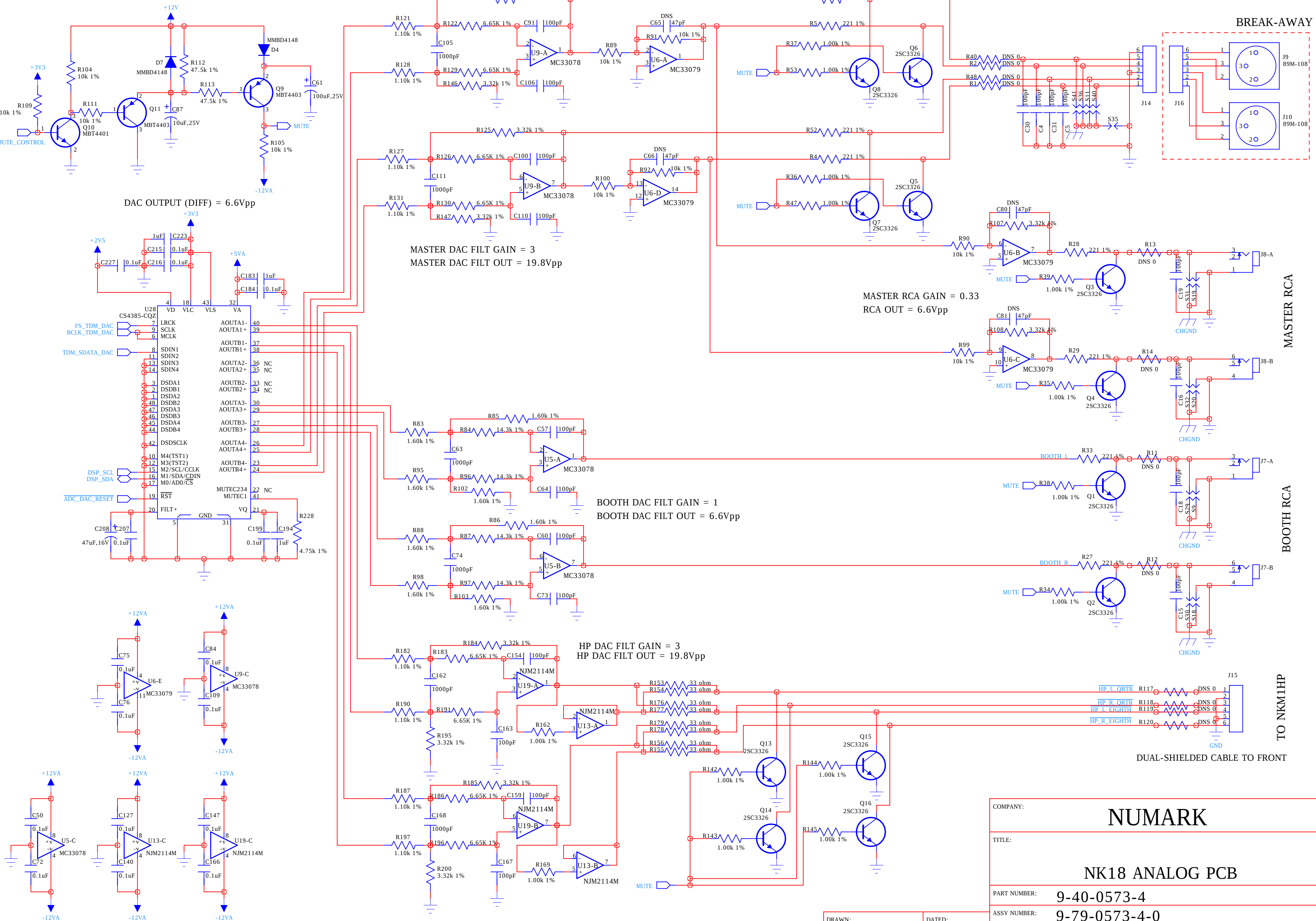
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PART NUMBER:		9-40-0573-4	
ASSY NUMBER:		9-79-0573-4-0	
FILENAME:		NK18AN401K.SCH	
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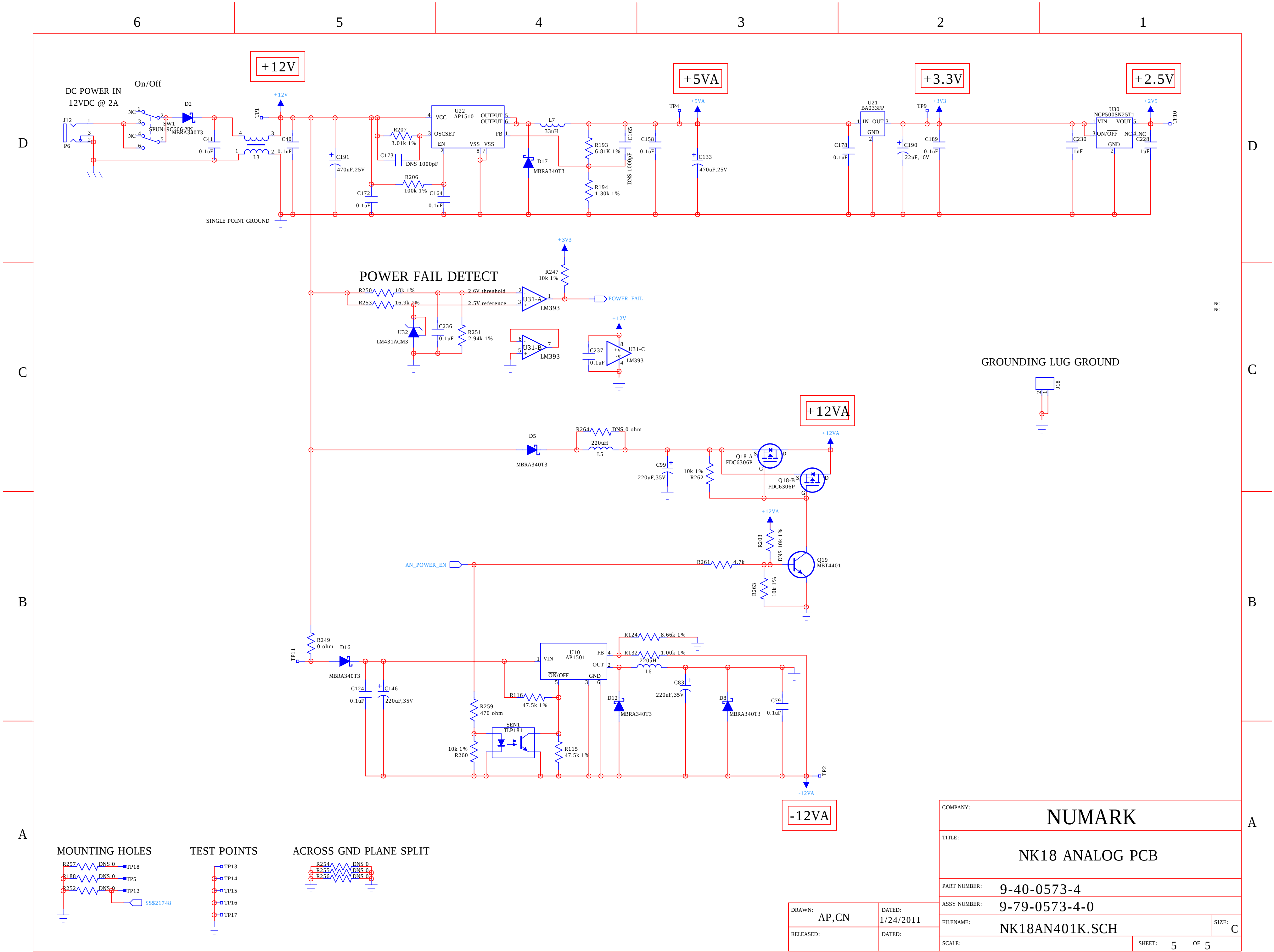
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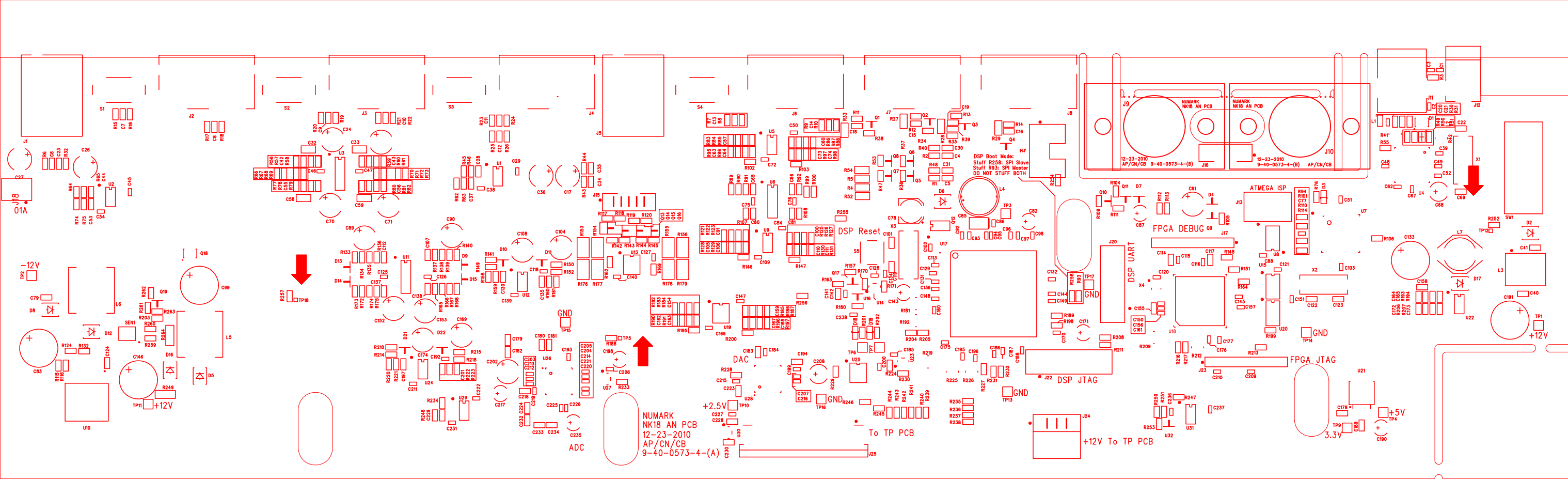


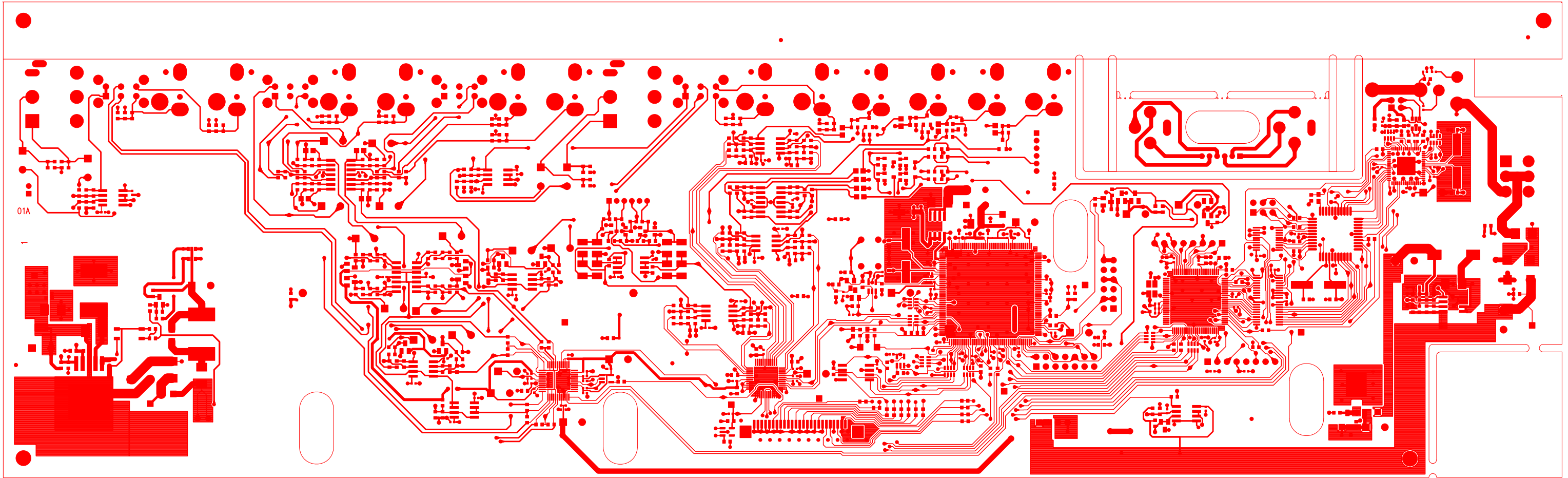
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ASSY NUMBER:		9-79-0573-4-0	
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SCALE:		SHEET: 4 OF 5	

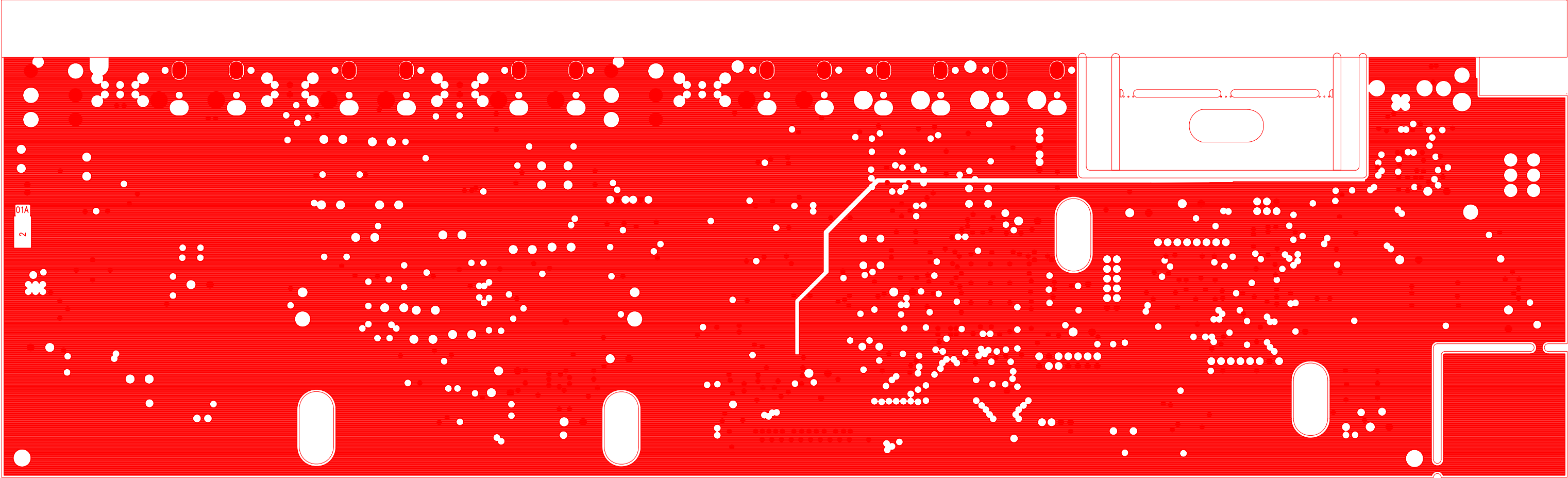
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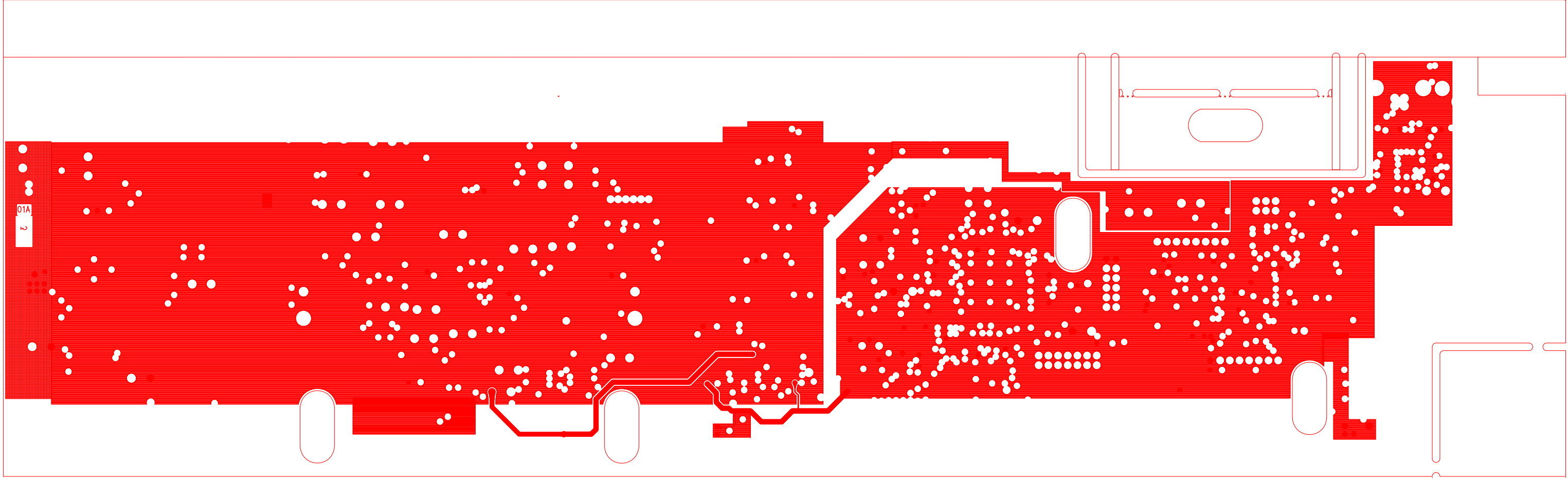
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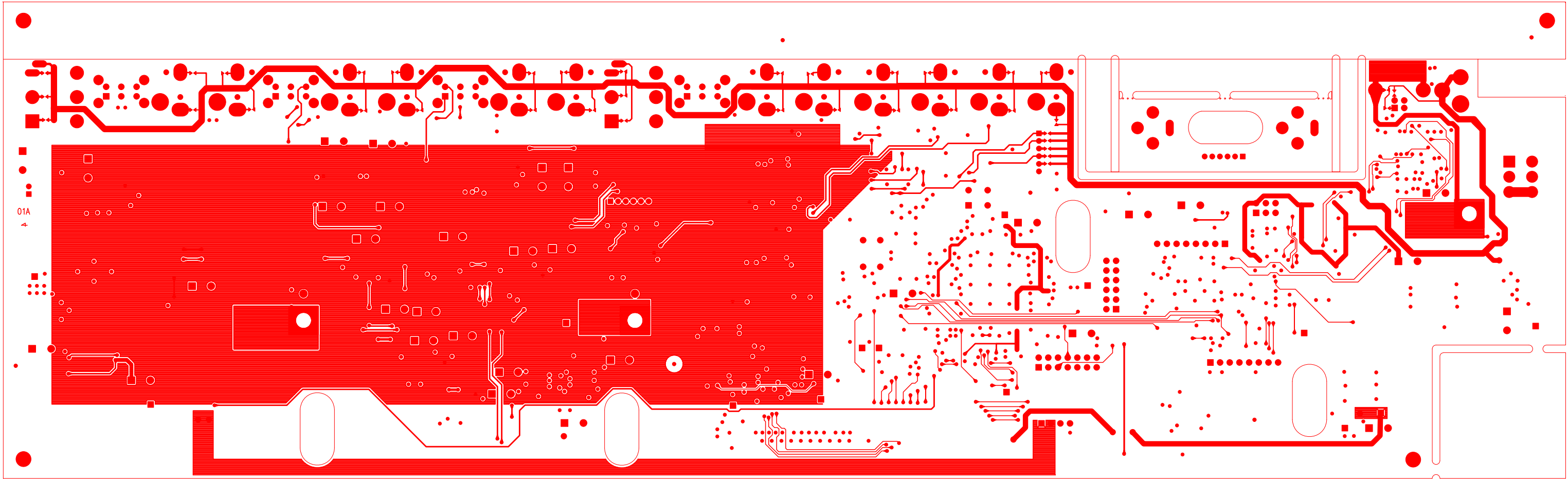




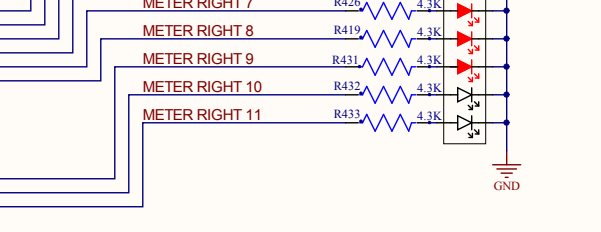
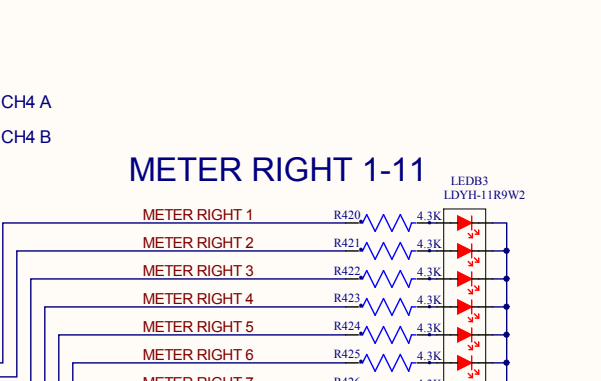
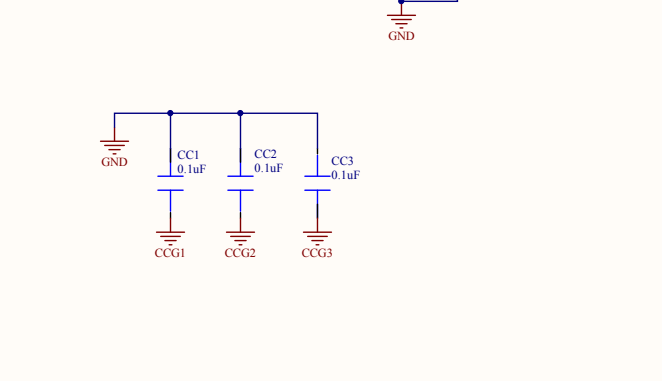
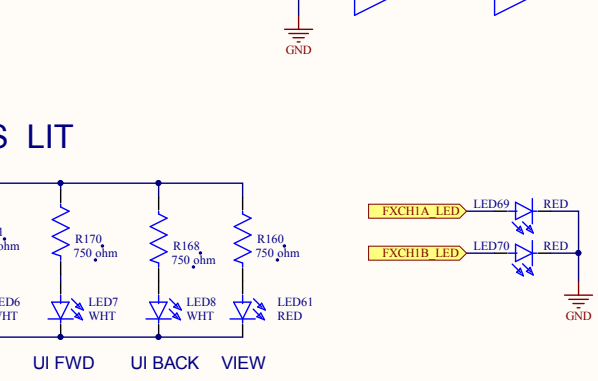
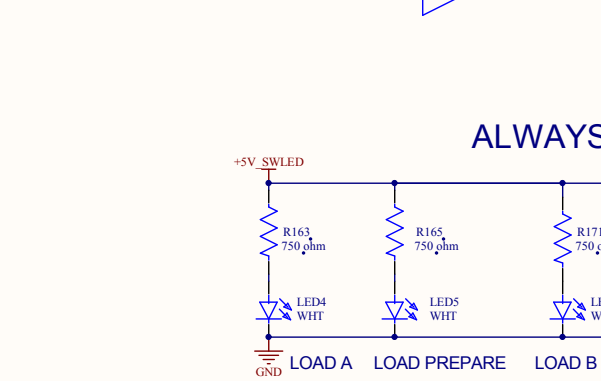
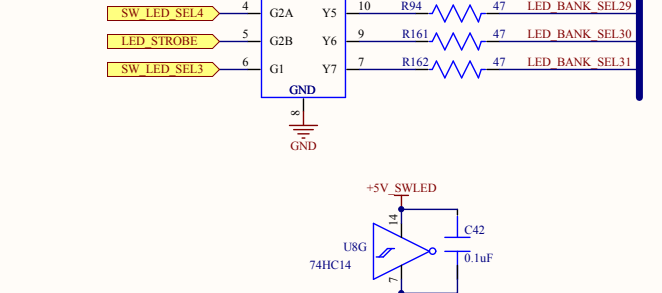
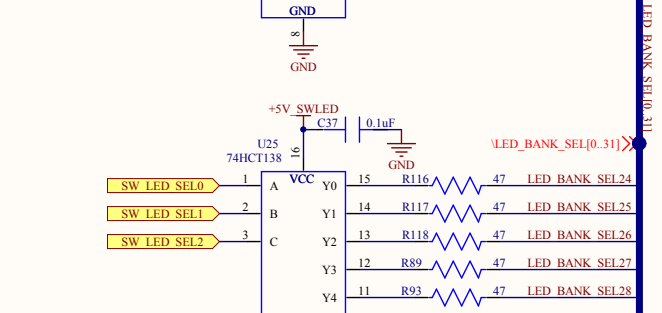
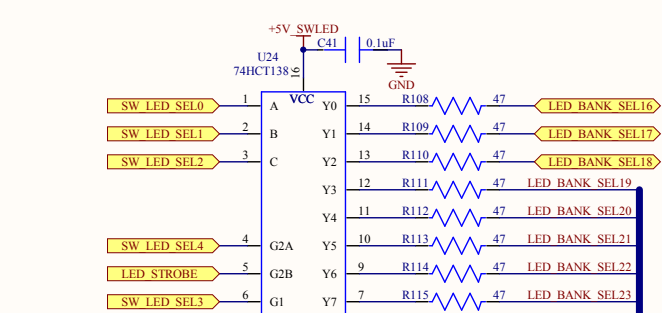
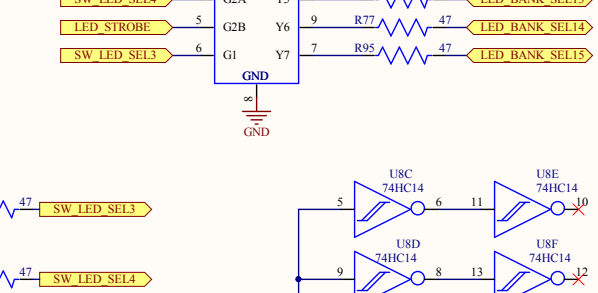
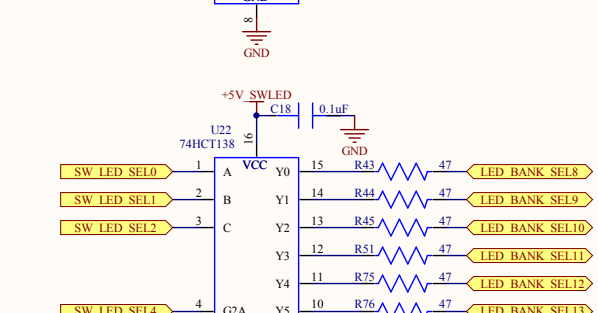
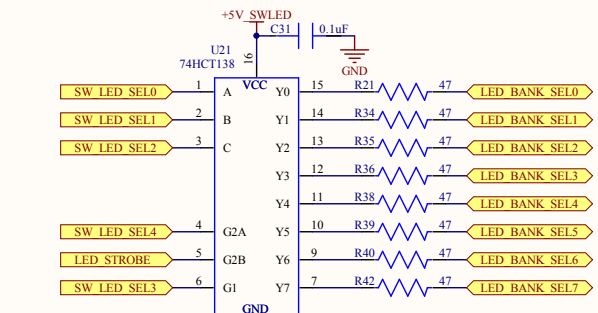
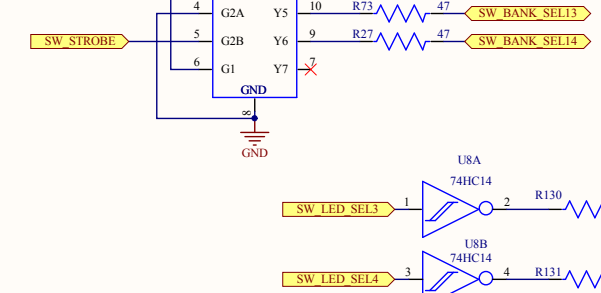
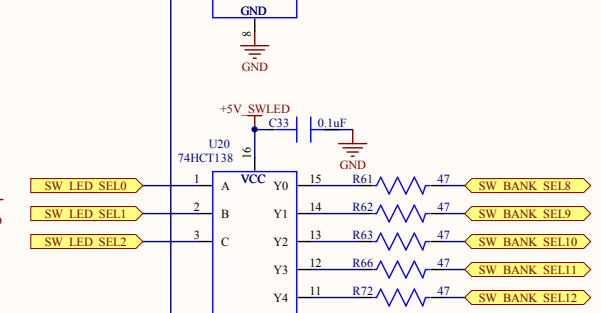
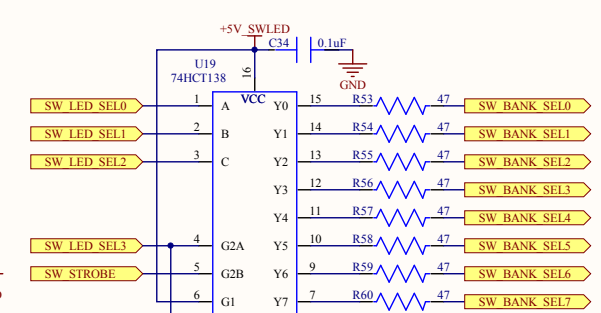
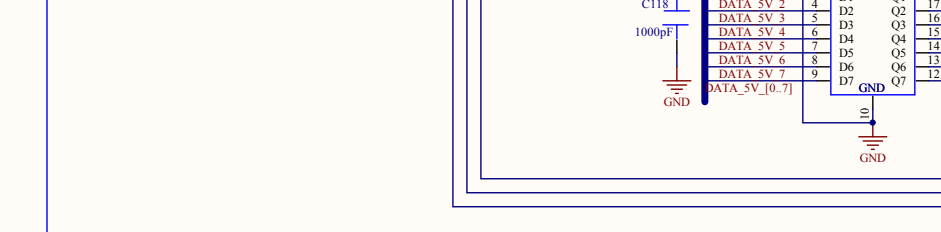
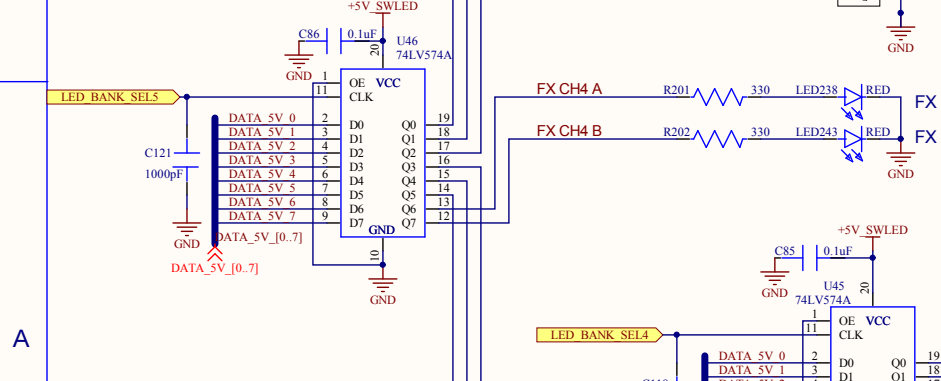
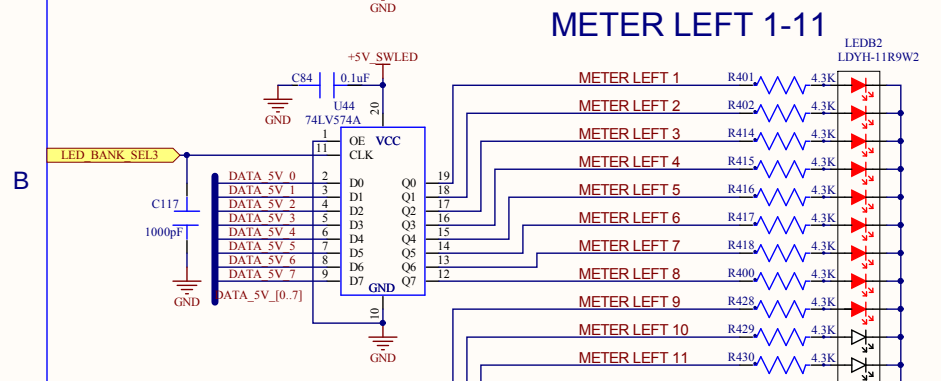
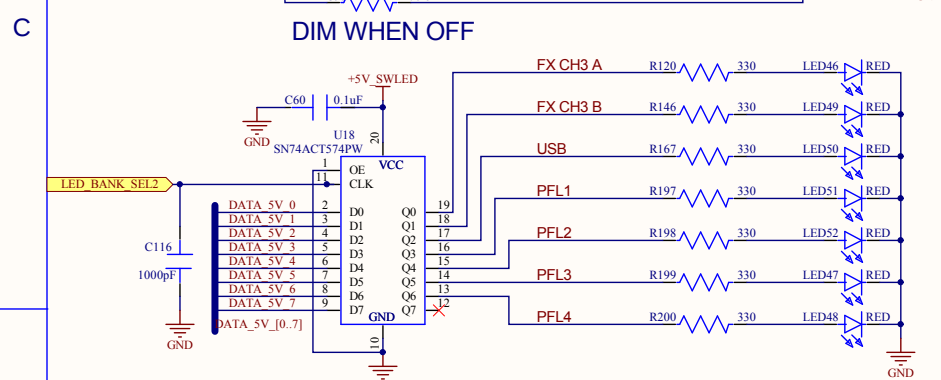
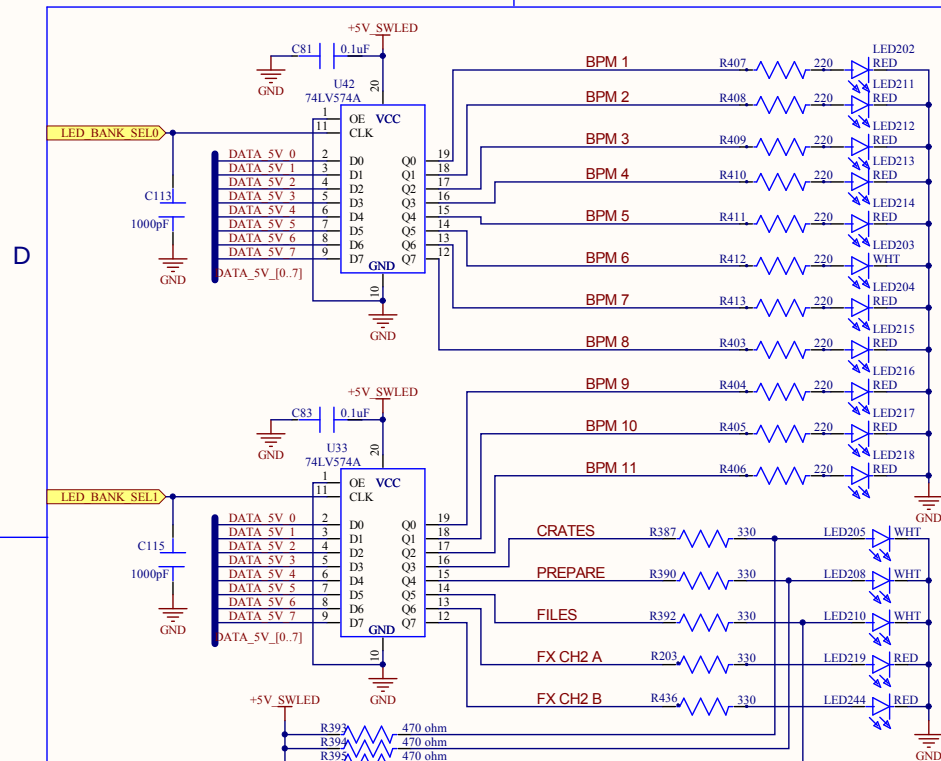








LEDS - MIXER+MISCELLANEOUS+DECODE



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		TITLE:		NK18 TOP PANEL PCB			
		PART NUMBER:					
		ASSY NUMBER:					
DRAWN:	AP	DATED:	5/18/2010	FILENAME:	NK18 LED1	SIZE:	
RELEASED:		DATED:		SCALE:		SHEET:	2 OF 5

6

5

4

3

2

1

D

D

C

C

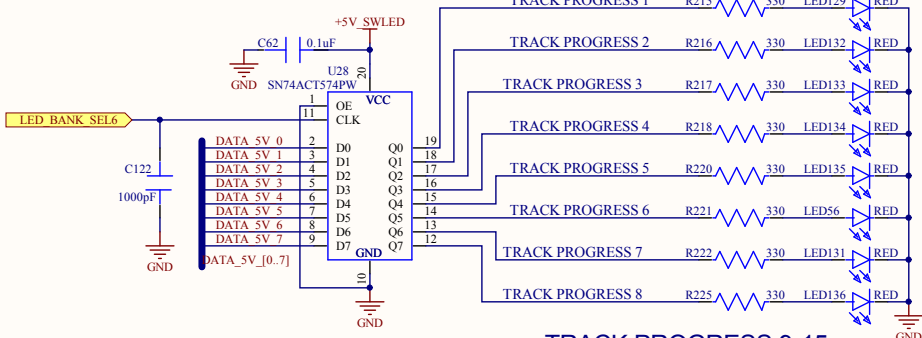
B

B

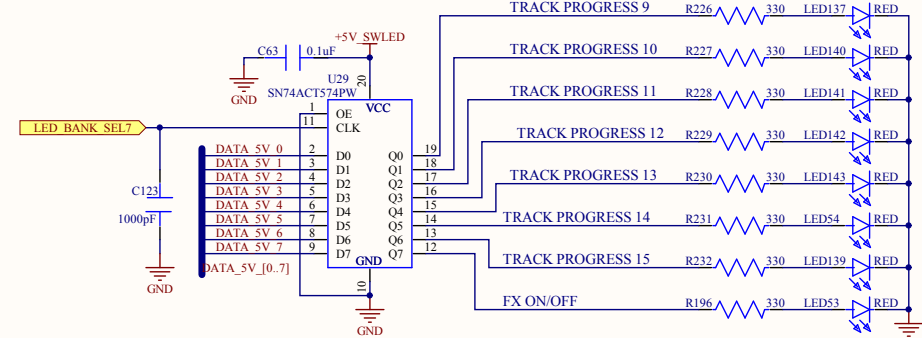
A

A

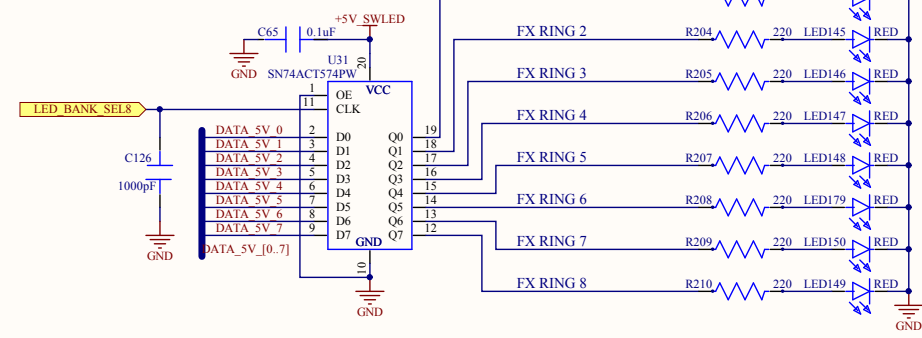
TRACK PROGRESS 1-8



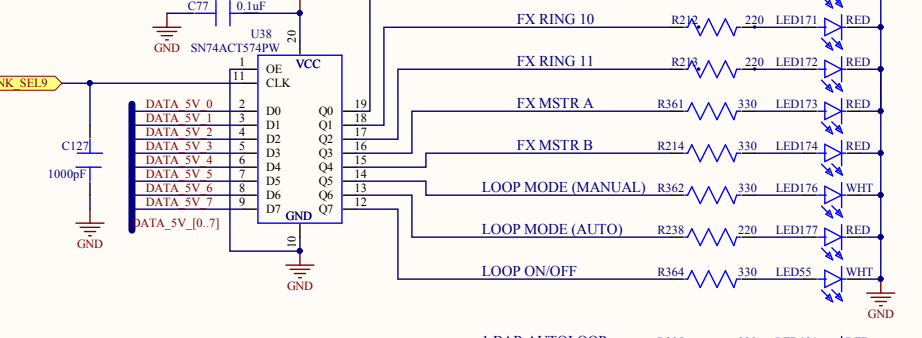
TRACK PROGRESS 9-15



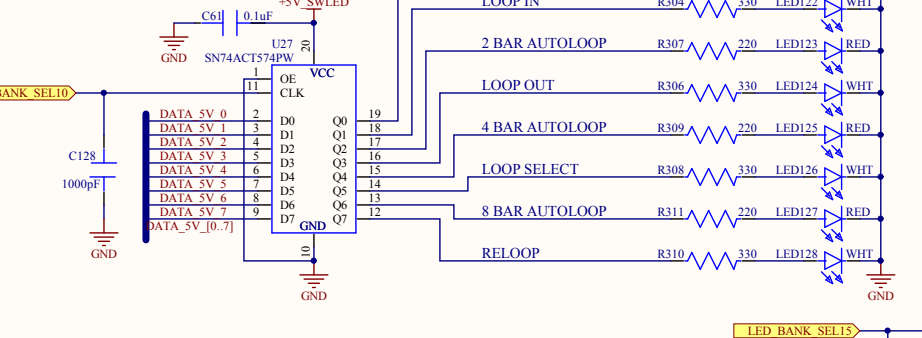
FX RING 1-8



FX RING 9-11



FX MSTR A-B



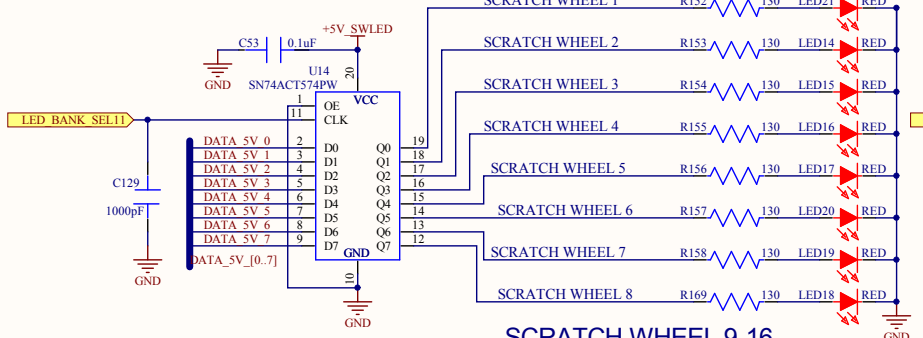
LOOP MODE (MANUAL/AUTO)



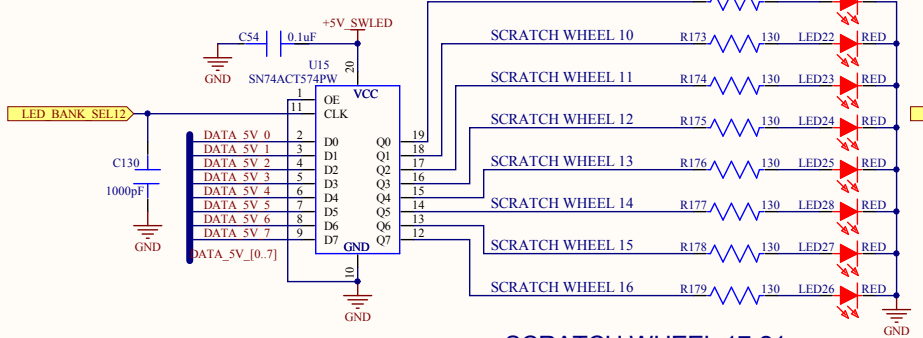
LOOP ON/OFF



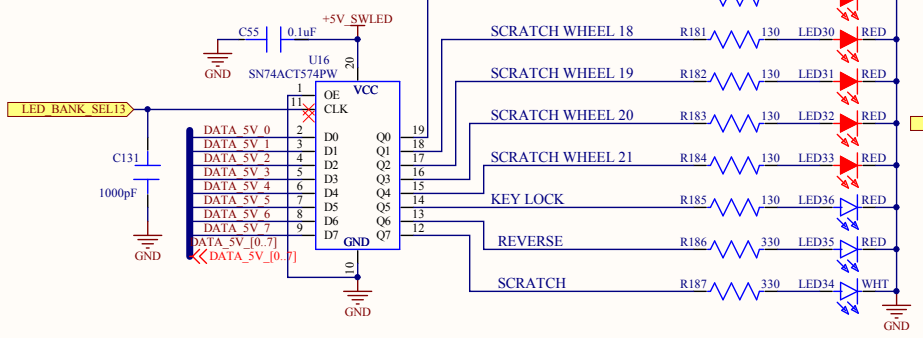
SCRATCH WHEEL 1-8



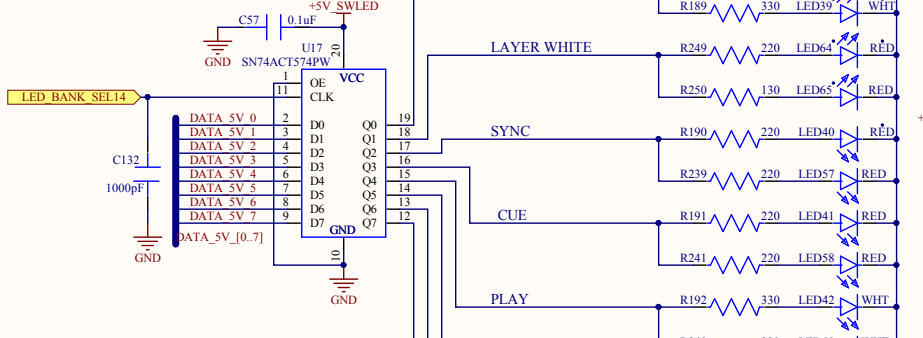
SCRATCH WHEEL 9-16



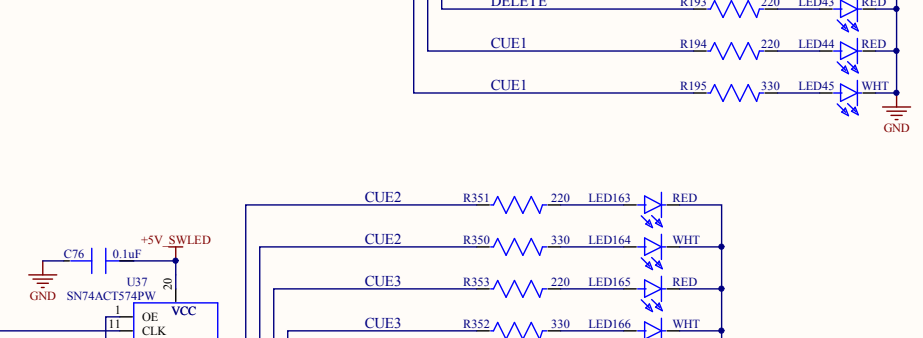
SCRATCH WHEEL 17-21



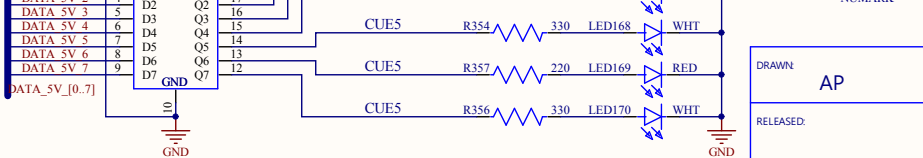
KEY LOCK



REVERSE



SCRATCH



LAYER RED



LAYER WHITE

SYNC

CUE

PLAY

DELETE

CUE1

CUE2

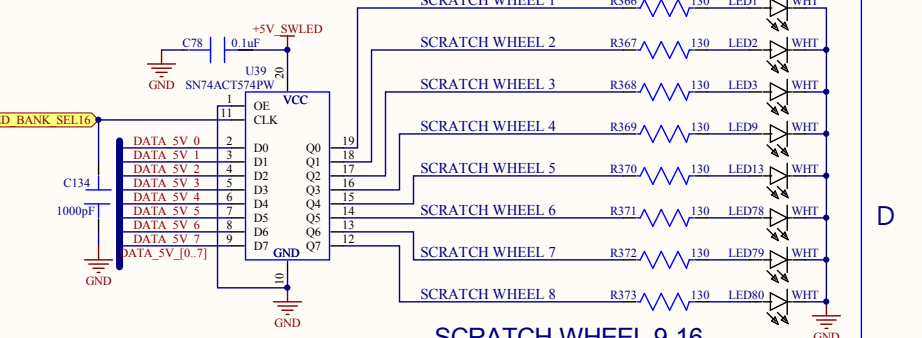
CUE3

CUE4

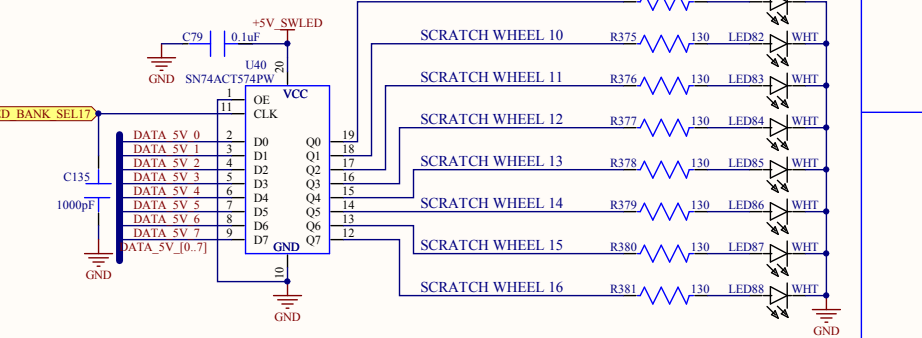
CUE5

CUE5

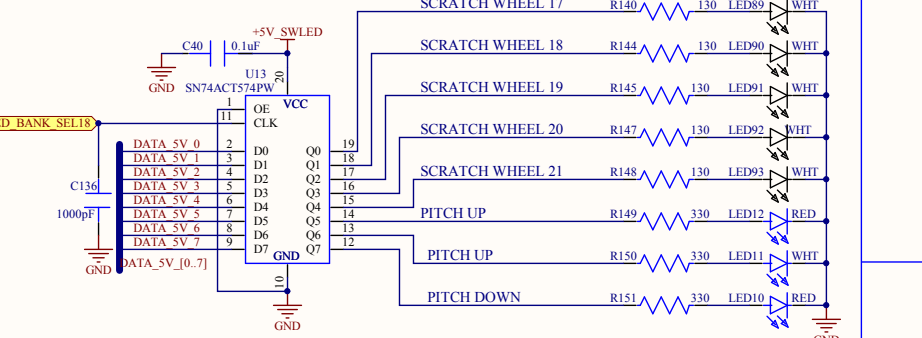
SCRATCH WHEEL 1-8



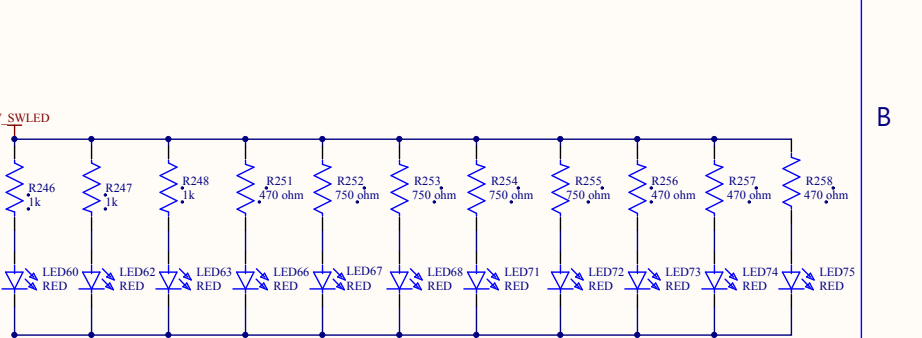
SCRATCH WHEEL 9-16



SCRATCH WHEEL 17-21



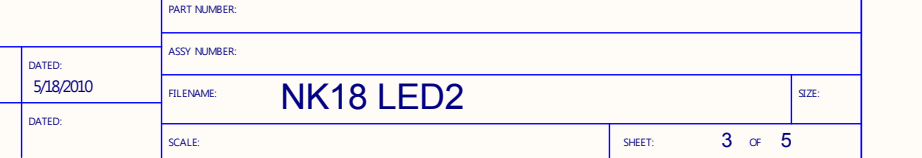
SCRATCH WHEEL 17-21



SCRATCH WHEEL 17-21



SCRATCH WHEEL 17-21

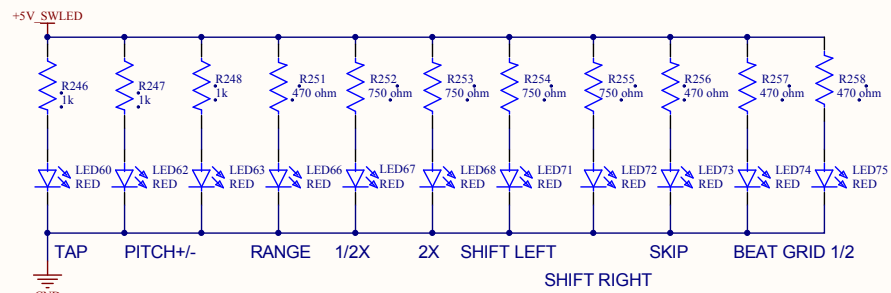


SCRATCH WHEEL 17-21



SCRATCH WHEEL 17-21

RIGHT TRANSPORT



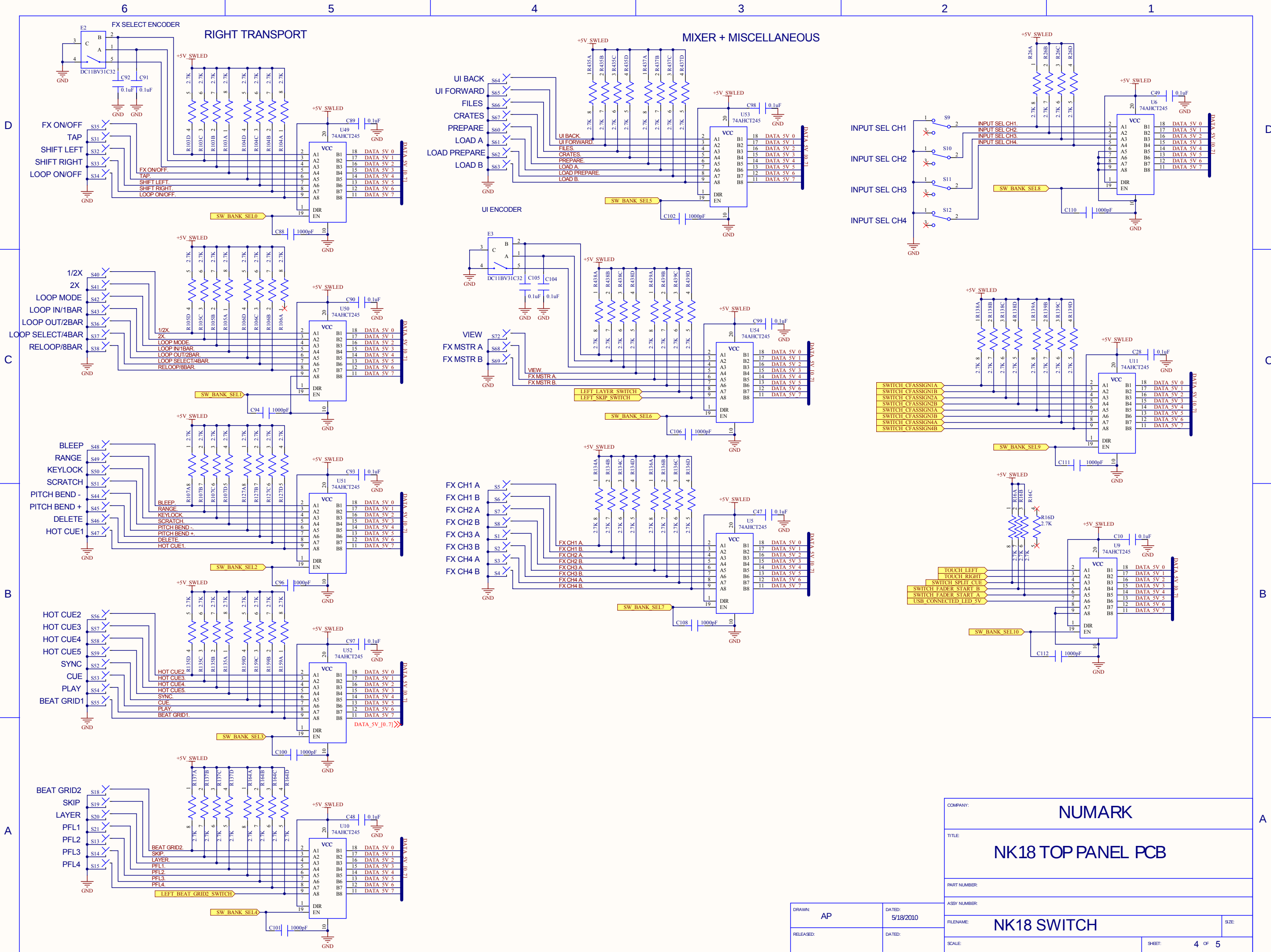
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PART NUMBER:			
ASSY NUMBER:			
FILENAME:		NK18 LED2	
SCALE:		3 of 5	

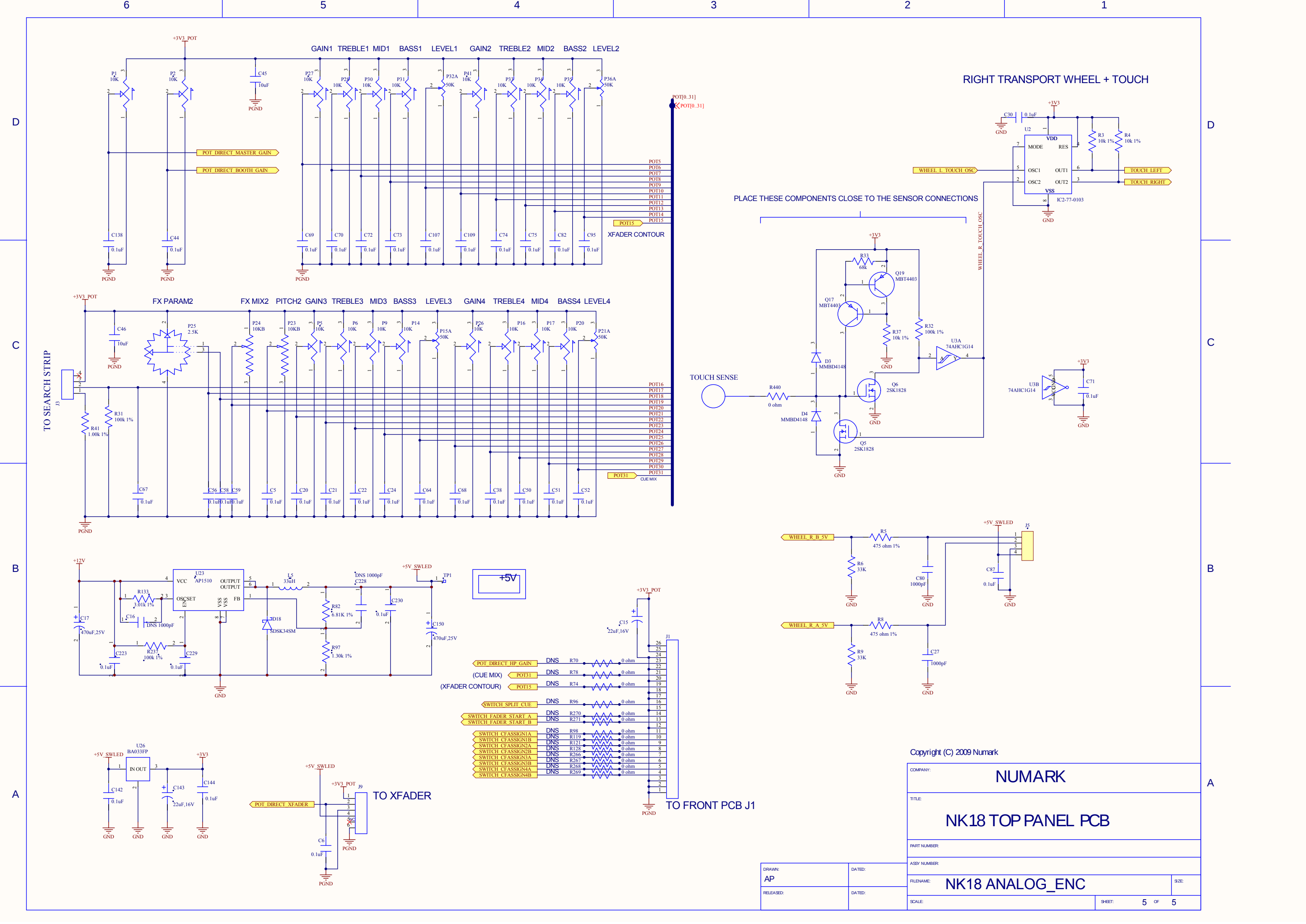
DRAWN: AP
RELEASED:

DATED: 5/18/2010
DATED:

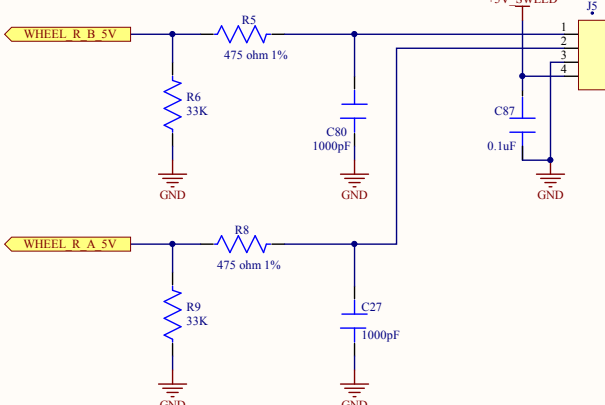
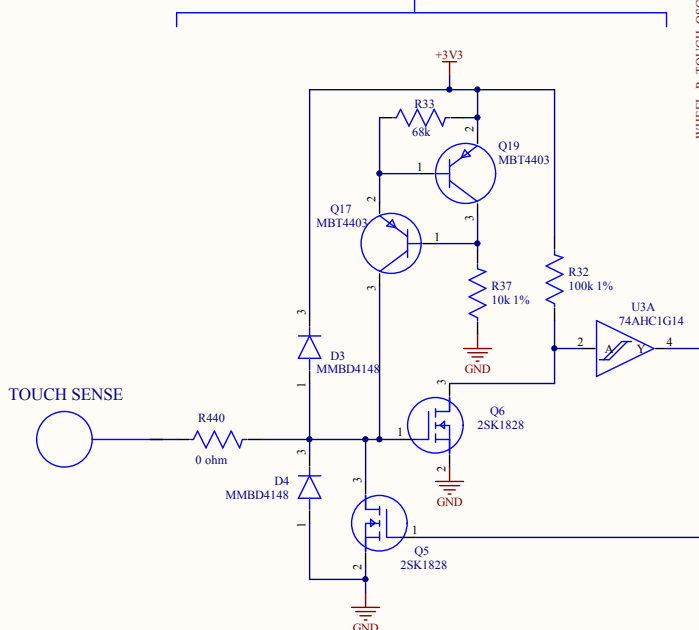


COMPANY:		NUMARK	
TITLE:		NK18 TOP PANEL PCB	
PART NUMBER:			
ASSY NUMBER:			
FILENAME:	NK18 MCU		SIZE:
SCALE:			SHEET: 1 OF 5





PLACE THESE COMPONENTS CLOSE TO THE SENSOR CONNECTIONS

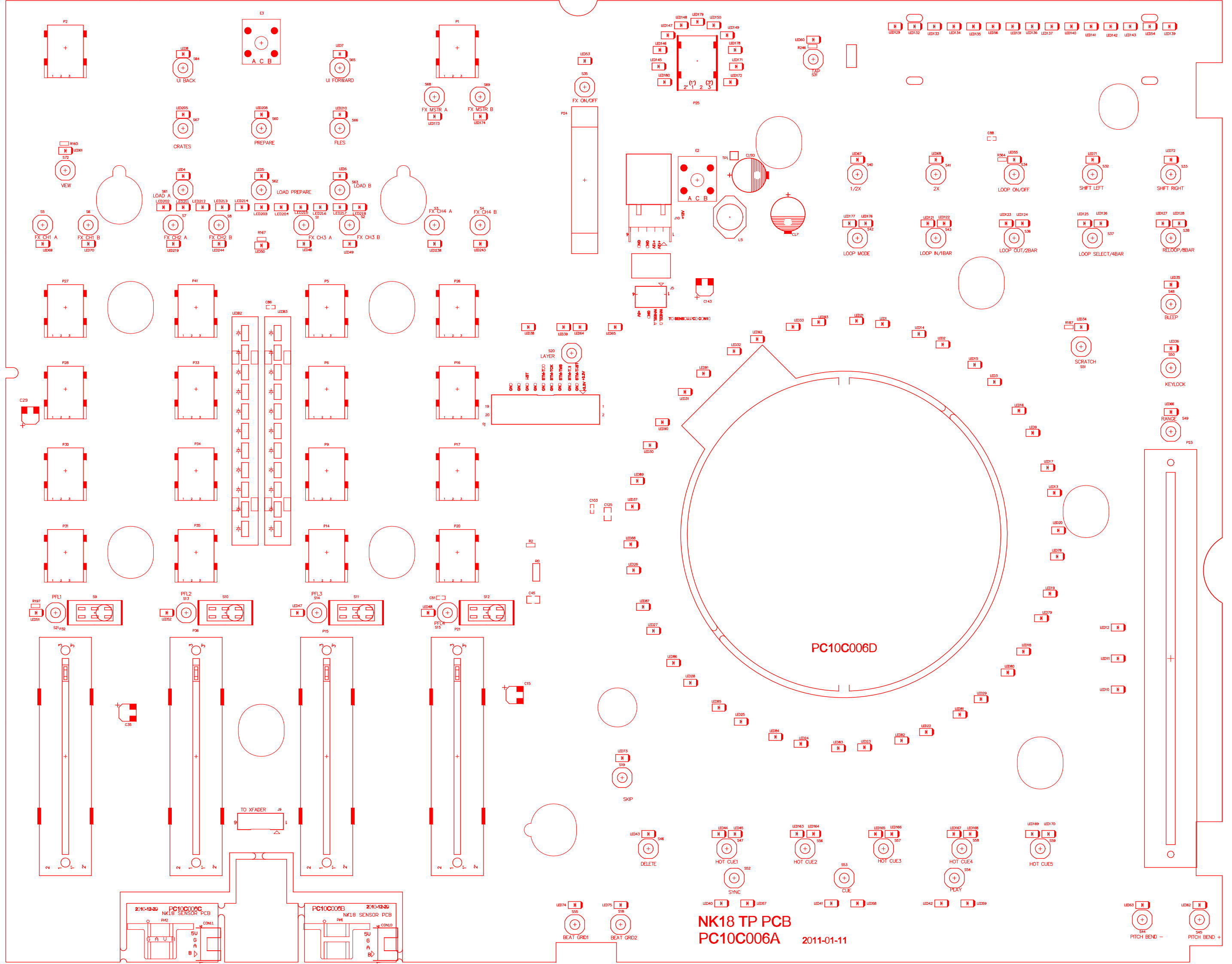


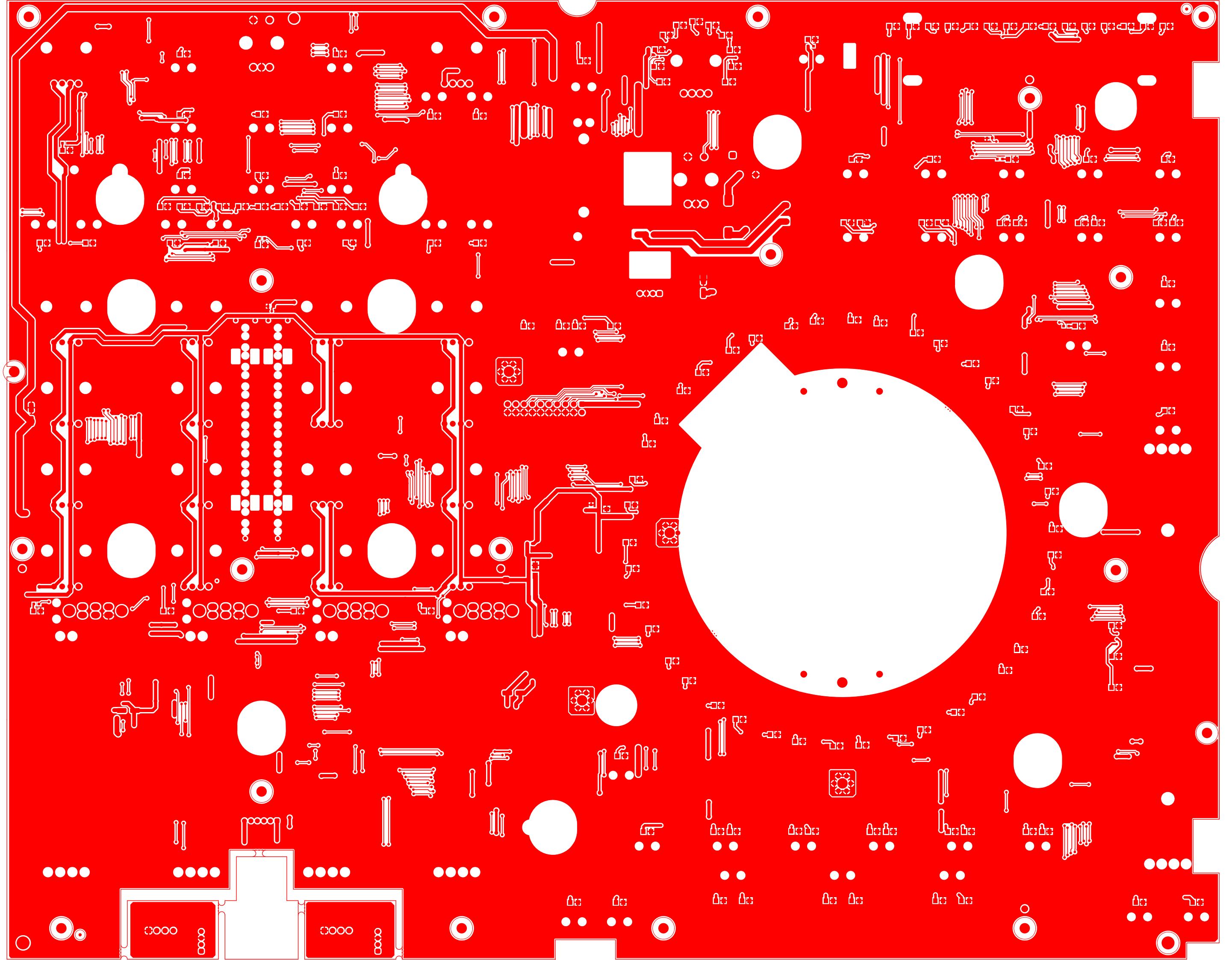
Copyright (C) 2009 Numark

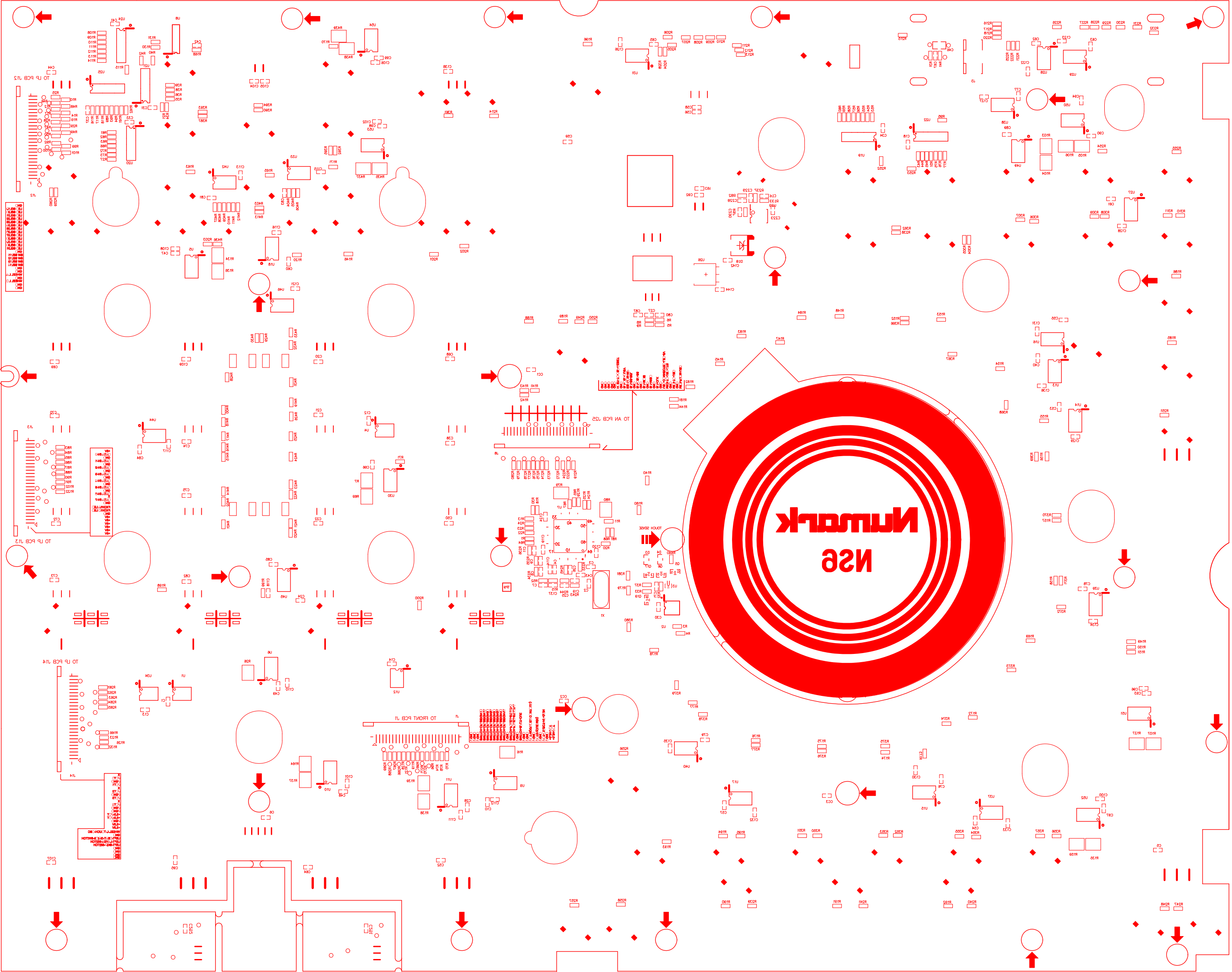
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TITLE:		NK18 TOP PANEL PCB	
PART NUMBER:			
ASSY NUMBER:			
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SCALE:			SHEET: 5 OF 5

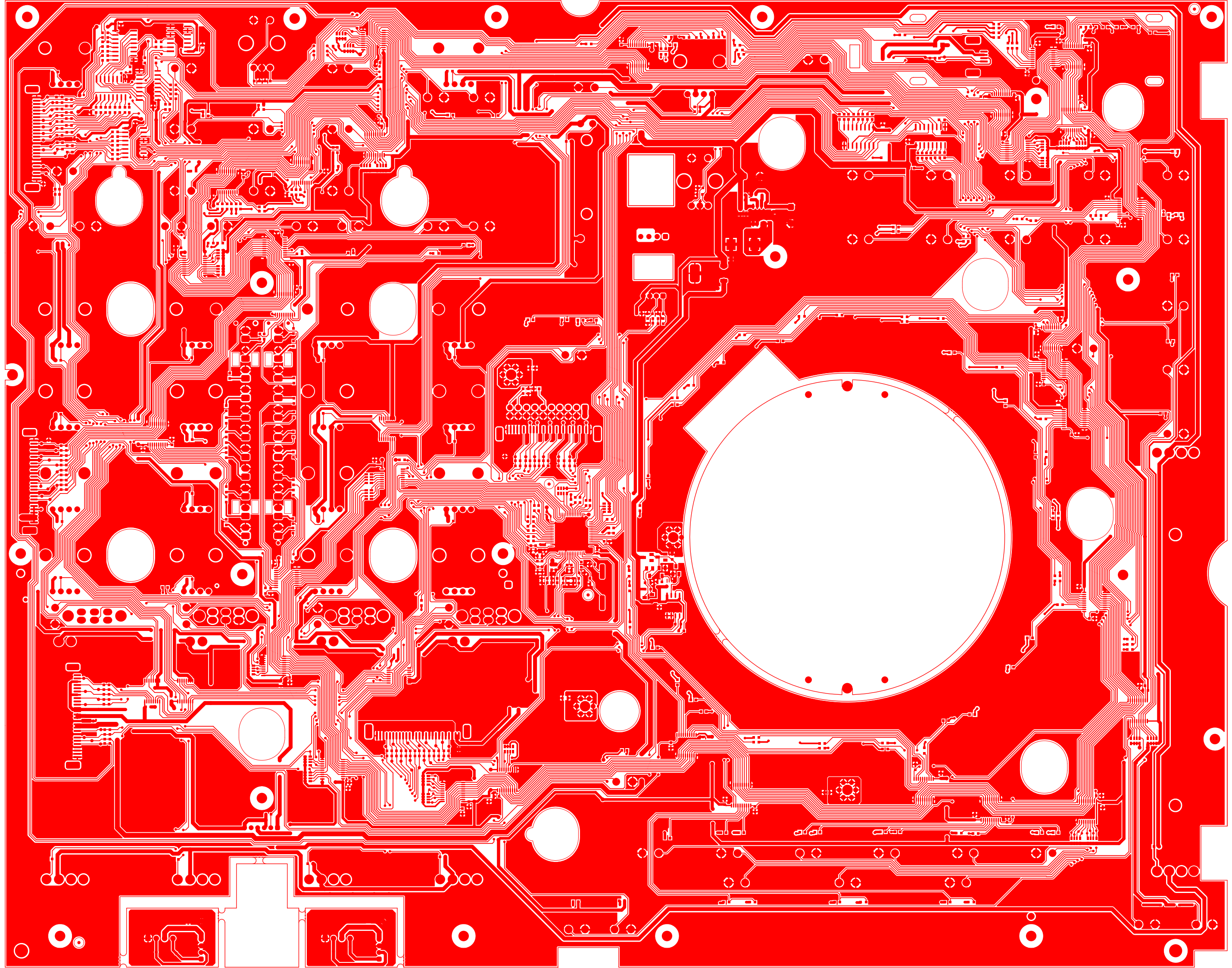
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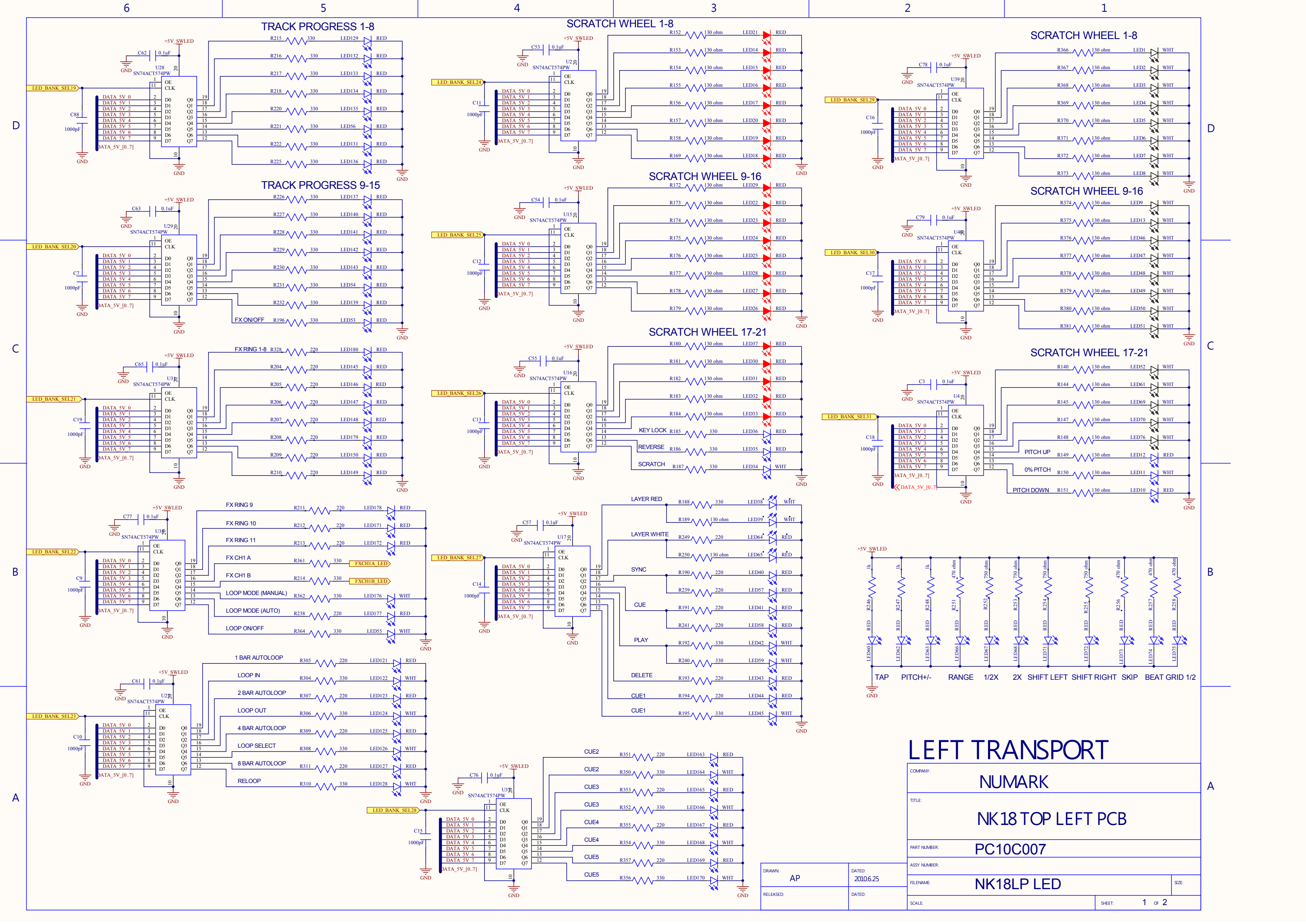
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DATED:











LEFT TRANSPORT

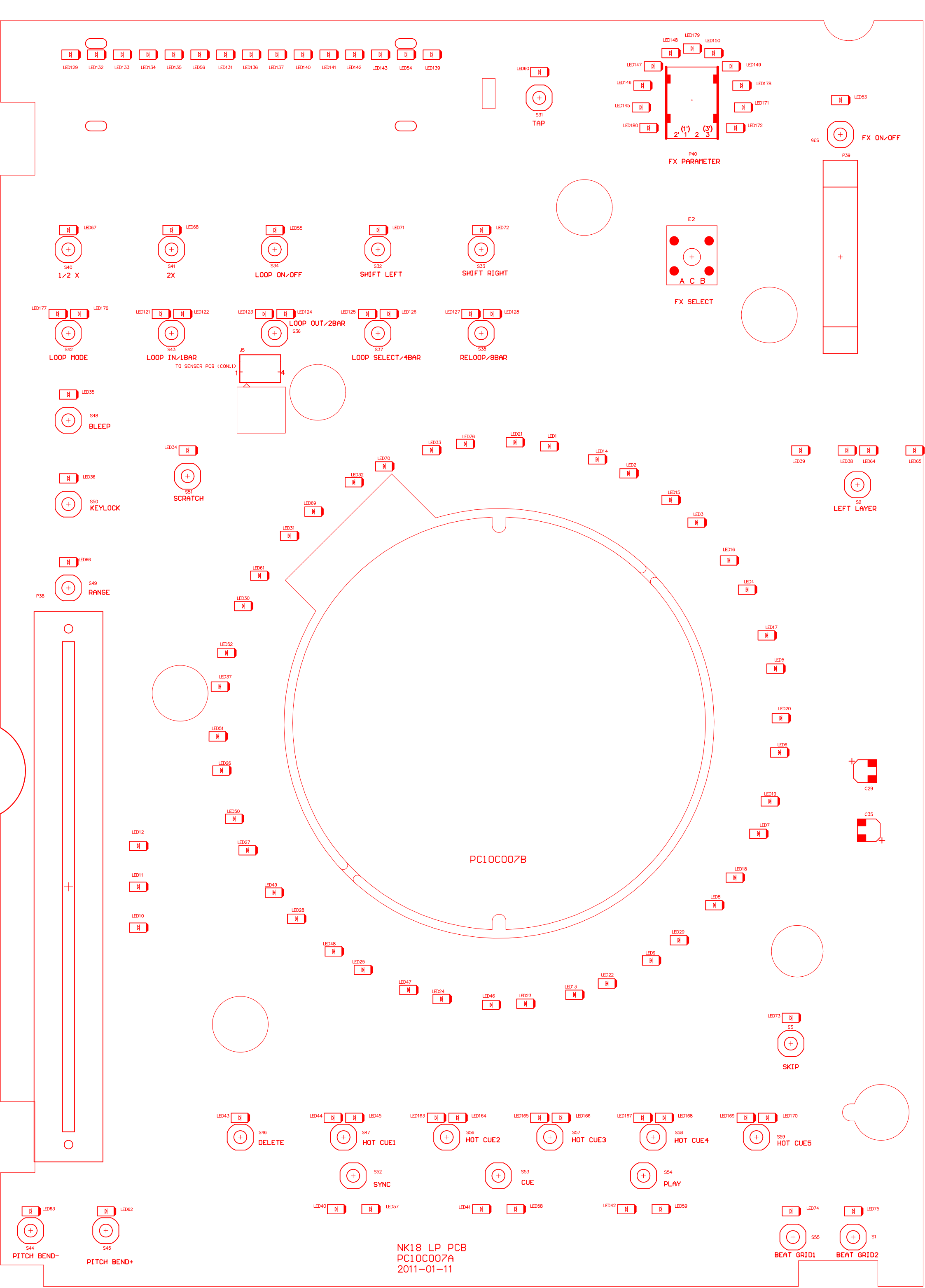
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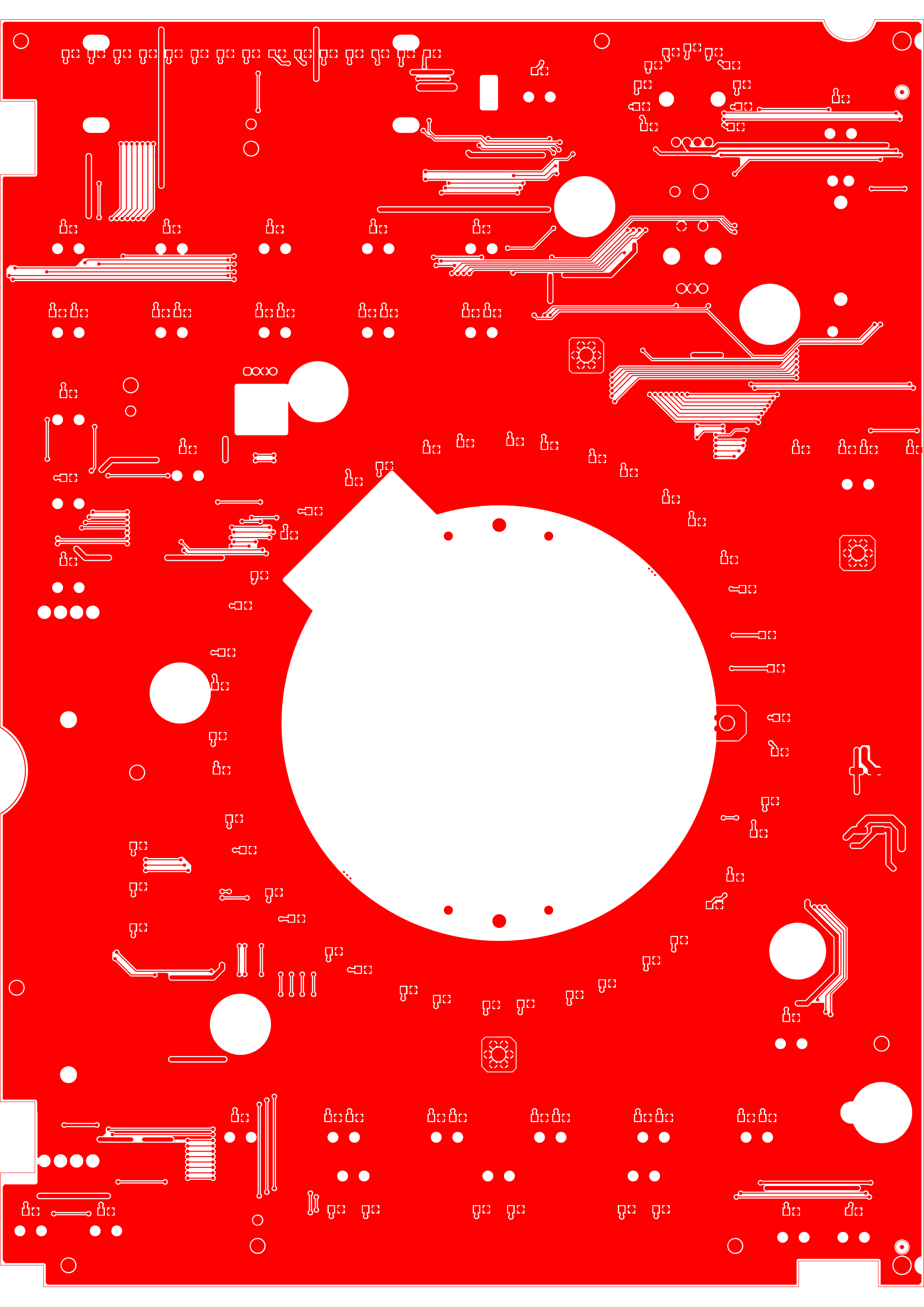
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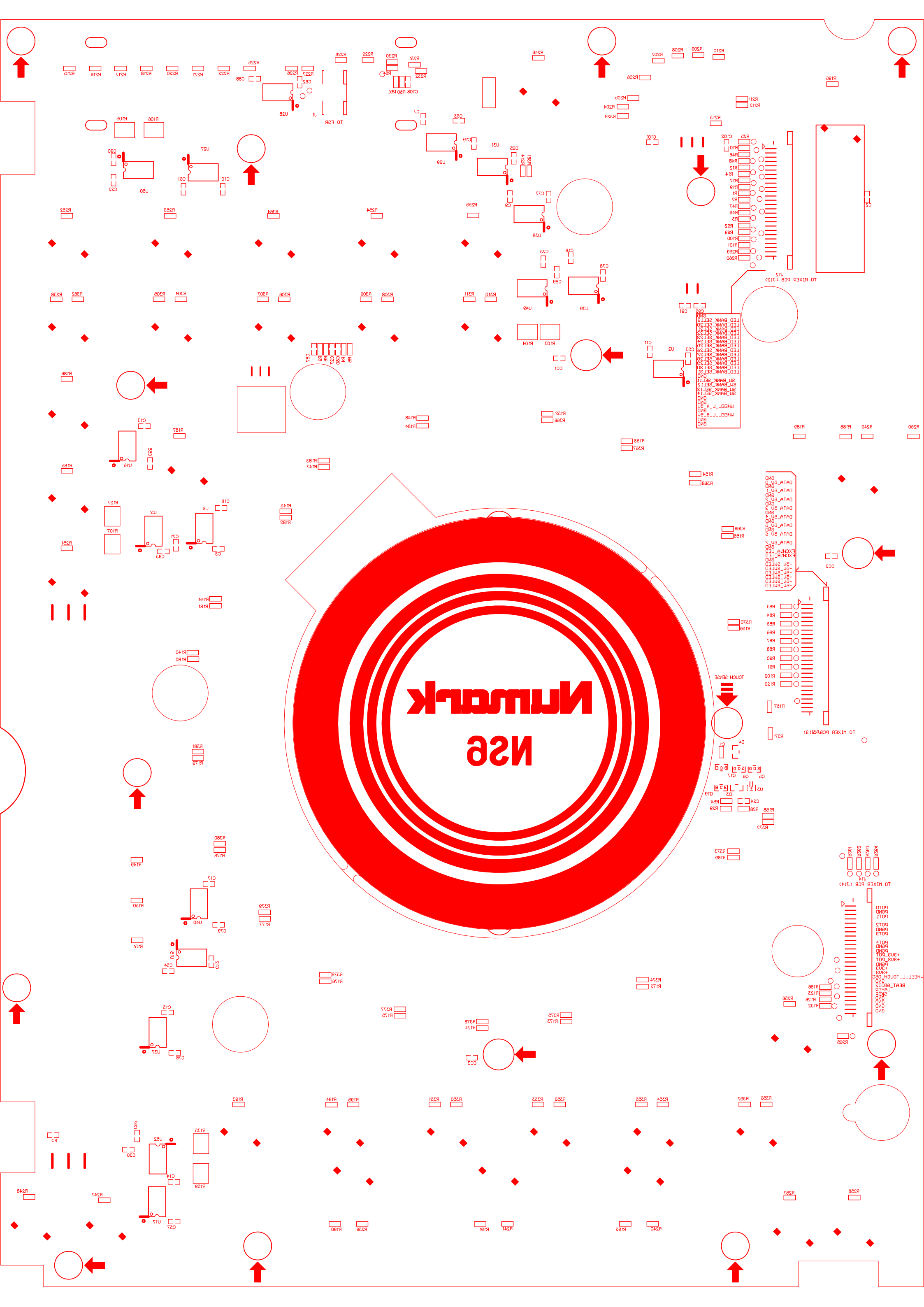
DATED: 2010.6.25
DATED:

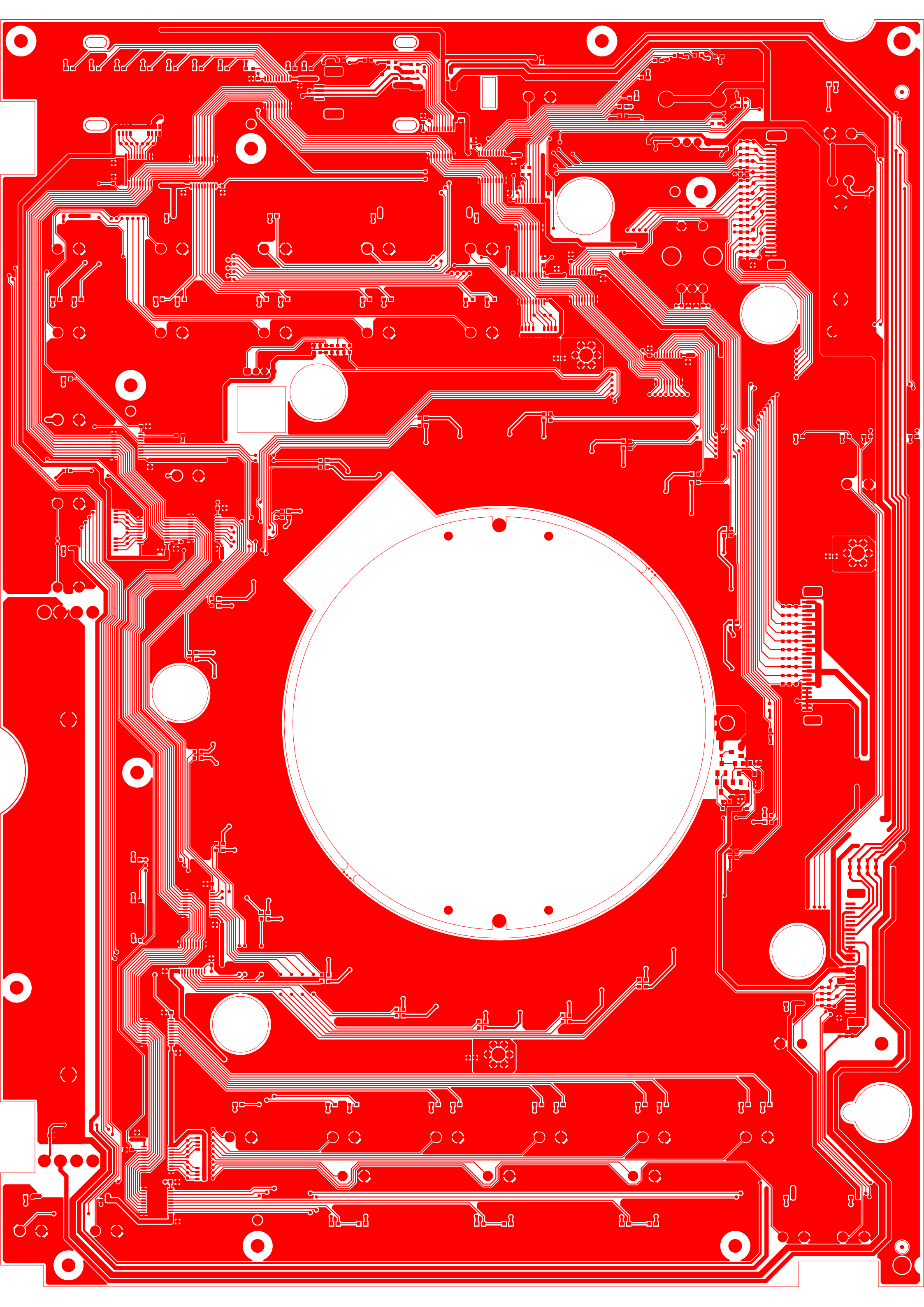
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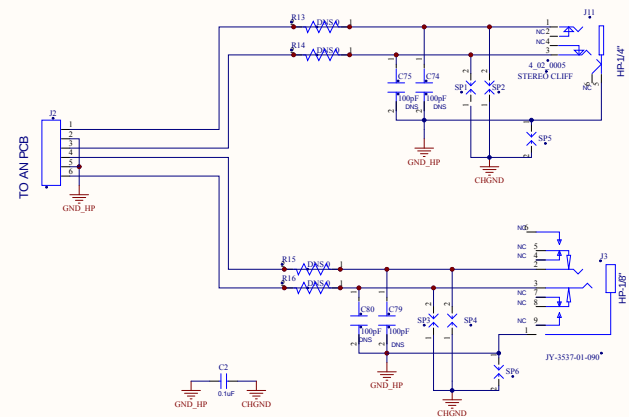
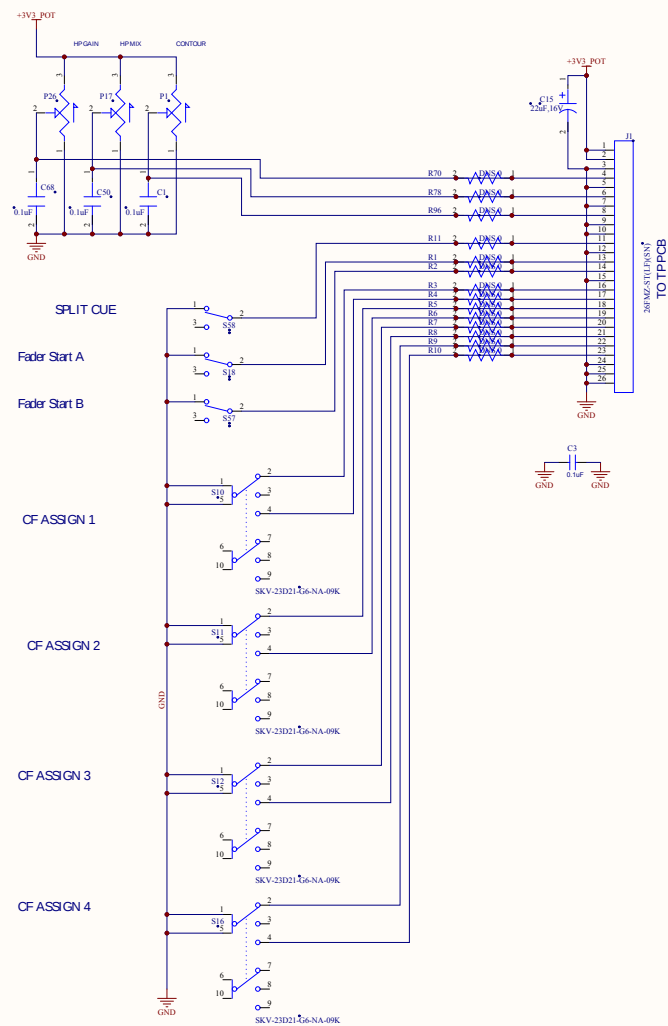
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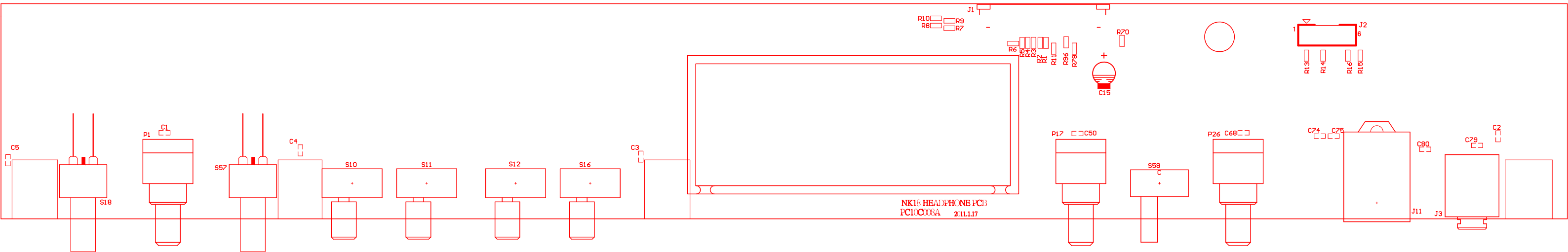


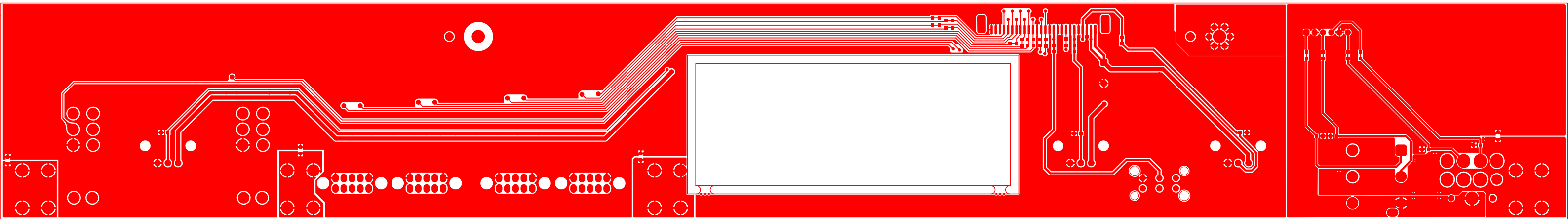


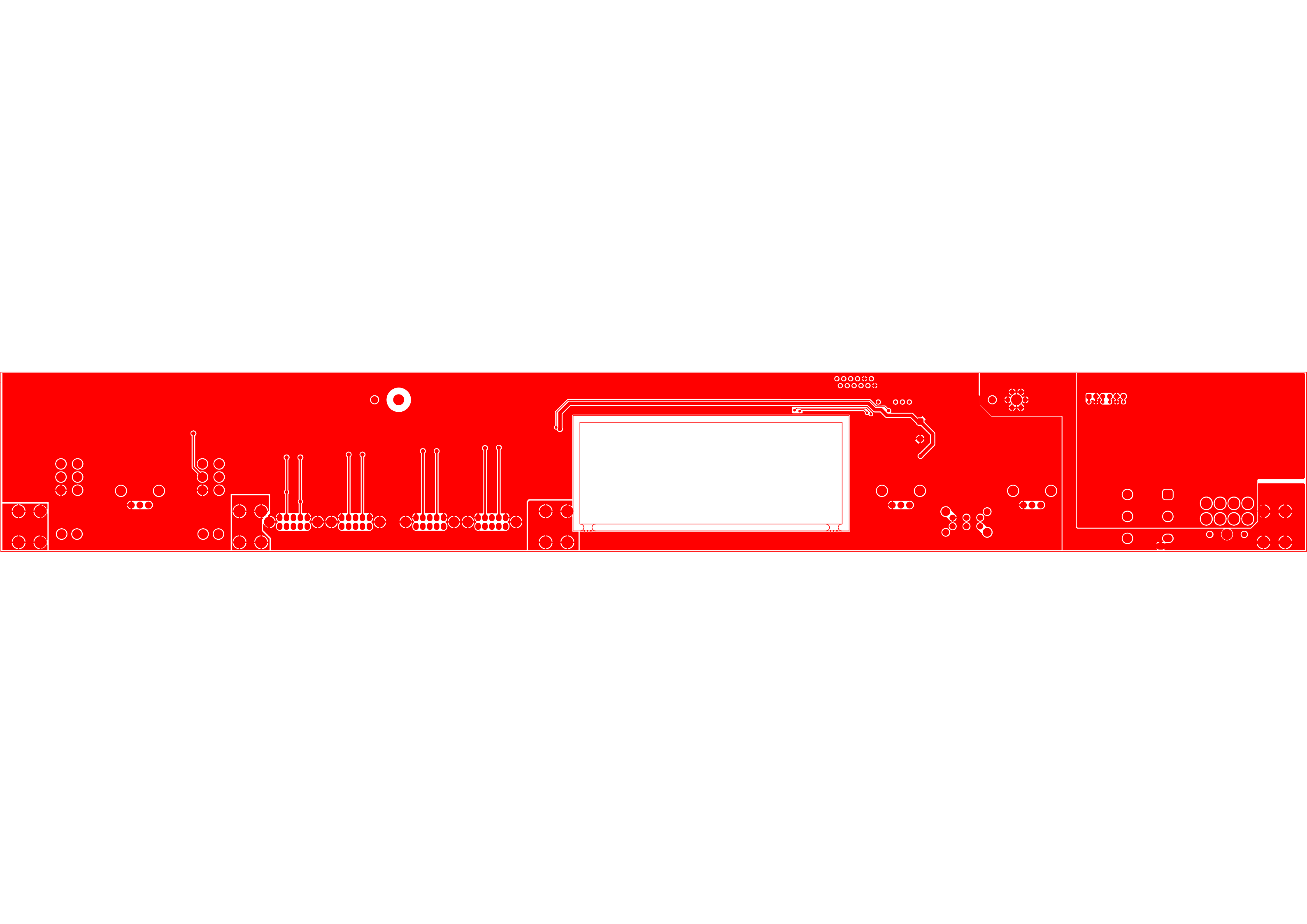
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ASSY NUMBER:			
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SCALE:			

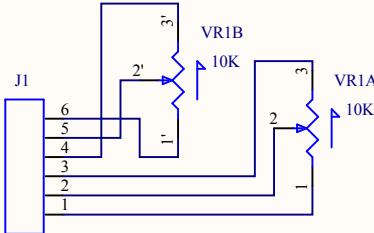
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Size	Number	Revision
A4		
Date	2010/8/24	Sheet: 01
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B							
							
C							
D							
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Approval	Check	Design	REV	DATE	Description

