

# USER BOOK



## SERVICE MANUAL

# Pa2Xpro specifications

<b>Keyboard</b>	76 keys with Velocity and Aftertouch (TP8 same as the Pa1X pro)
<b>SOUND DATA</b>	
<b>Tone Generator</b>	120 Voices, 120 Osc. - EQ for each track - Filters with Res.+ SOUND ARTICULATION
<b>Multitimbral-Parts</b>	Internal: 40 channels - Midi: 16 channels
<b>ROM Sounds</b>	approx. 1050 (incl. Stereo Piano and GM2 sounds) + 72 Drum Kits+ GM2 Compatibility
<b>RAM Sounds</b>	256 Sounds - 64 Drum Kits
<b>Digital Drawbars</b>	9 Footages (if possible using the CX Board or DSP board)
<b>Sound Edit</b>	On-board full editing for Sounds and DrumKits
<b>PCM RAM memory</b>	128 MB ROM + 256 MB RAM
<b>Sampling</b>	Record, Edit, Time Slice, Load/Import, Export - PCM RAM Memory: 256MB standard
<b>Effects</b>	4 Stereo Master - TC Helicon for Vocal FX + new FX (TBD)
<b>Real Time Tracks</b>	4 (Upper 1/2/3, Lower) - 4 Pads
<b>Performances</b>	320 User Programmable
<b>STYLES DATA</b>	
<b>Factory Styles</b>	Up to 544 locations - Preloaded Styles: approx. 320
<b>User Styles</b>	96 User + 320 Favorite (all 960 styles are re-writable)
<b>Arranger Tracks</b>	8 (including GUITAR TRACK MODE)
<b>Style Edit</b>	Record & Edit functions
<b>Patterns/Chord Variations</b>	Up to 42 patterns for each style including 3 Intros, 3 Endings, 2 Fills + Break
<b>Style Performance (STS)</b>	Up to 960 x 4 (Real time tracks + Acc. tracks) all programmable
<b>PCM Style Grooves</b>	Using the internal PCM RAM memory
<b>SEQUENCER</b>	
<b>XDS Double Sequencer</b>	Separate transport control - Motorized Balance Slider TBD
<b>4 STS saved with the Song</b>	In SongBook Mode
<b>Direct from Media</b>	Two songs at the same time
<b>Tracks</b>	16 + 16
<b>Sequencer Edit</b>	Record & Edit functions + bmp IMAGE + Frattali o Screen Saver
<b>Score and Lyrics</b>	Lyrics + Cue and SCORE (TBD) !!
<b>Backing Sequence (Quick Record)</b>	Real Time Record - Step Record & Edit
<b>Lyrics/Chords</b>	On-Screen (compatible with most popular formats)
<b>OTHER FEATURES</b>	
<b>Voice Processor</b>	Same as in the Pa800
<b>SongBook and SongBook List</b>	Fully Programmable
<b>MP3 Player</b>	Double MP3 player and recorder as standard + VOCAL REMOVE (TBD)
<b>Other MP3 feature</b>	Pitch shifter e time stretching su Mp3 and iPod detect (file list e information TBD)
<b>Arabic Scale</b>	Programmable
<b>Pads</b>	4 + Stop button
<b>Compatibility</b>	i-series: styles - Pa series: Style, Perf., Sound, Song, Song Book
<b>Operating System</b>	OPOS Multitasking System - Load while playing - Upgradable
<b>Internal SSD Flash memory</b>	512 Mb for O.S, PCM and all Resources
<b>USB for Memory Card</b>	Yes (2 slots - 1 Host Rear , 1 Host Front)
<b>Hard Disk</b>	Included as standard (??)
<b>Amplification</b>	No Amplification (EQ available for the external output and Headphone).
<b>Speakers</b>	NO Speakers
<b>Miscellaneous</b>	Touch Control Beep - Clock (TBD)

Korg reserves the right to change the specifications without notice

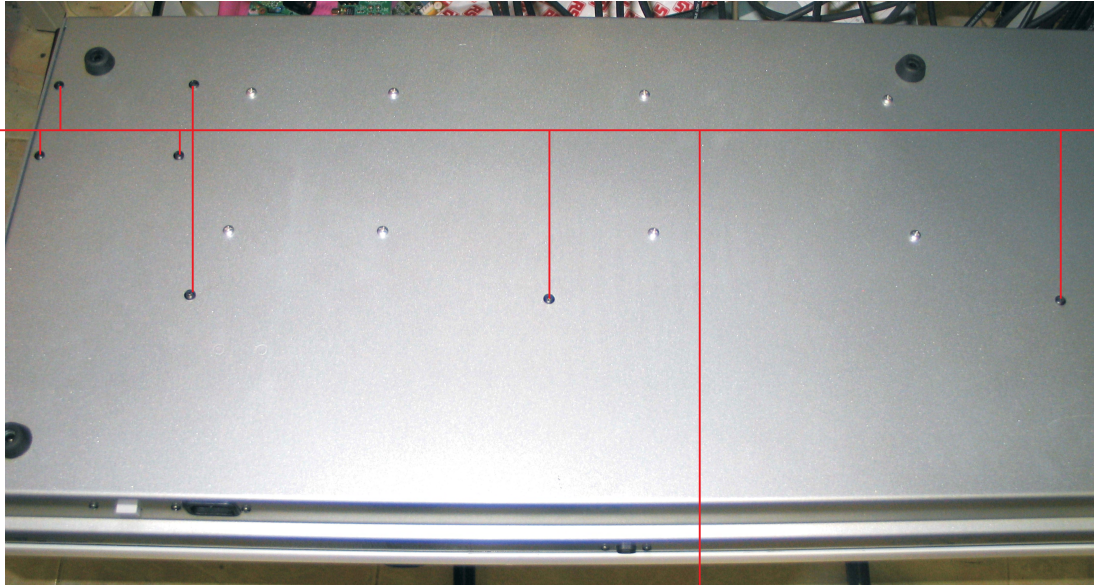
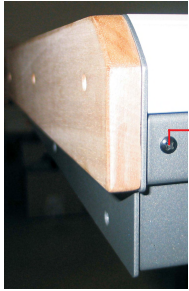
# Pa2Xpro specifications

USER INTERFACE	
Mode	Style and Song in the same MODE (with the possibility to rearrange the song using the style engine)
Display	Tilted 320 x 240 Graphical Color Touch Screen Display
Display language	Different Languages for all pages!!
Controls	Joystick - Dial - Up/+ and Down/- buttons
Programmable Controls	2 Switches + 9 Sliders
Cursors	Master Volume - Acc/Seq-Real Time Volume Balance
Switches	Transp.-Memory-Bass Inv.-Man.Bass-Fade-Tap-Synchro-Ensemble
Help System	Multilanguage Hypertext - Contextual
CONNECTIONS	
MIDI	IN - OUT - THRU
USB	USB: 2 Host (2.0 Hi Speed) and 1 Device (2.0 Hi Speed)
Outputs	4 Jack Analog Balanced Output ( ( Left/Right/Out1/Out2)- Digital Output (TBD)
Inputs	1 Combo XLR Balanced Mic input with gain - 2 Line Inputs
Headphone	1 Front jack connection
Pedals	1 Damper - 1 Assignable Footswitch/Pedal – EC5
Power Supply	AC - Universal Voltage
OPTIONS	
USB Memory	Yes
Hard Disk	HD Included as Standard
CD - FD	through USB Host - not internal
Video Interface	Graphic Video Interface VIF4 - NTSC/PAL board - AS STANDARD
Expression/Volume Pedal	Korg EXP-2 - Korg XVP-10
Multi-Switch Pedal	Korg EC5 or NEW PEDALS?
Damper Pedal	Korg DS-1H (supporting half-pedaling)
Switch Pedal	Korg PS-1
INFO	
Consumption	35W
Dimensions	W=365mm, H1=136mm, H2(opened LCD)=221mm, L=1207mm
Weight	18Kg

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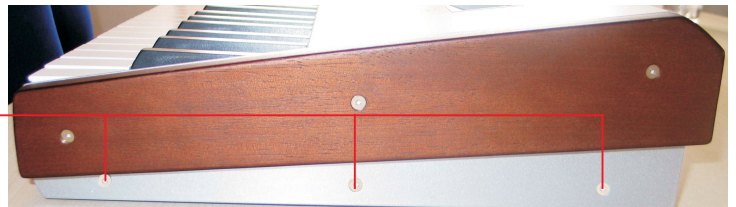
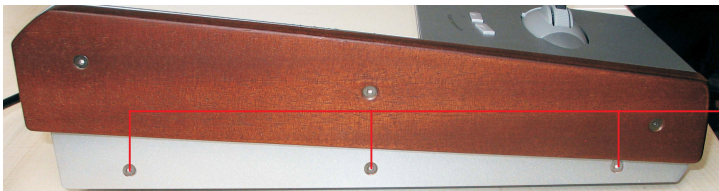




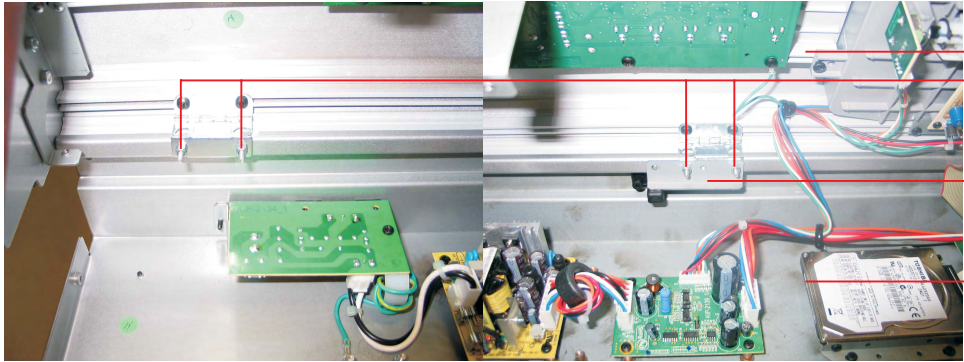
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VTA0001084

VTA0010038



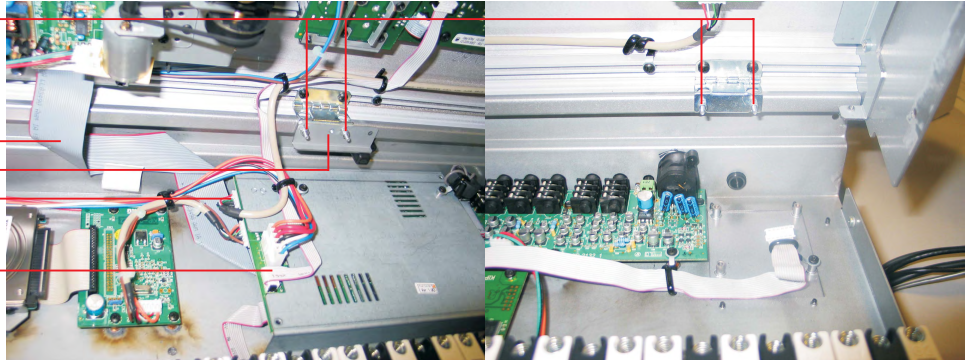
Disassembly 1



upper case  
VTA0001023  
FER0010117  
lower case

VTA0001023

CAV0010031  
FER0010117  
CAV0010038  
CAV0010028



PLA00010039 PLA0001146



PLA0001136

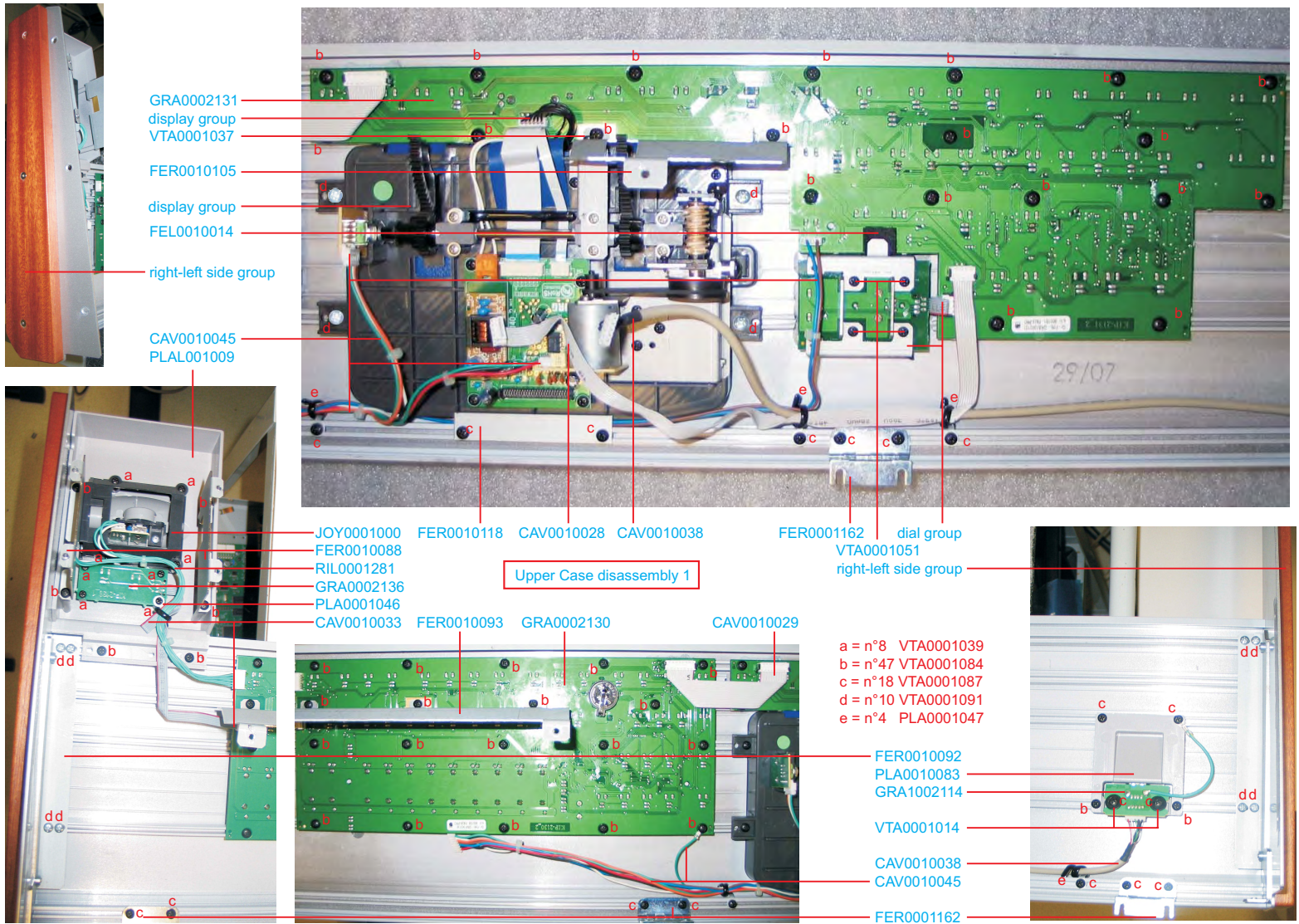
VTA0010038 (dx-sx)  
PLA0001136



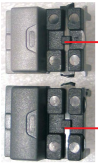
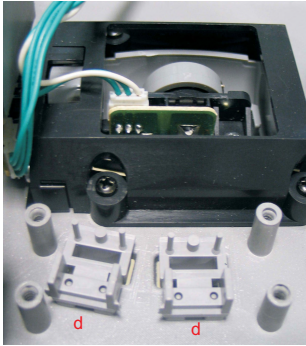
Disassembly 2









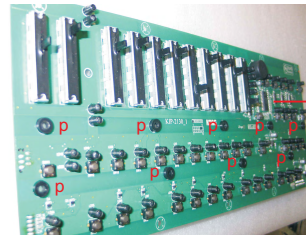
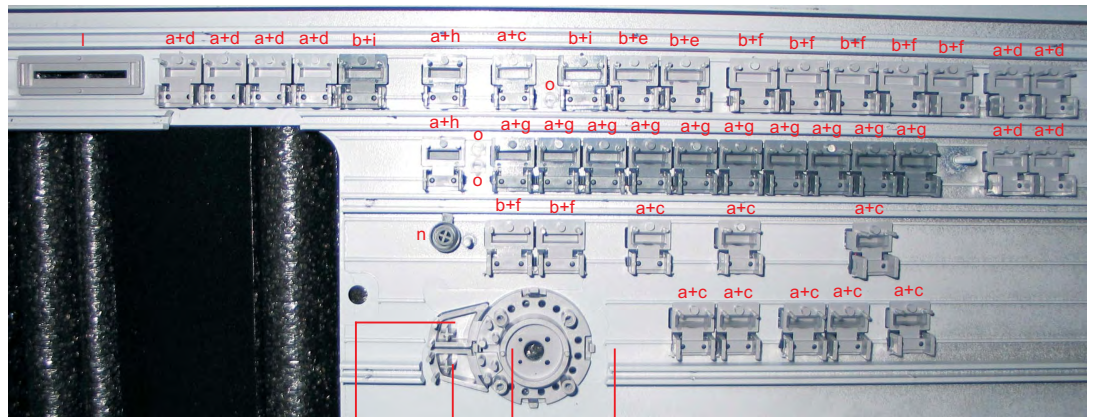
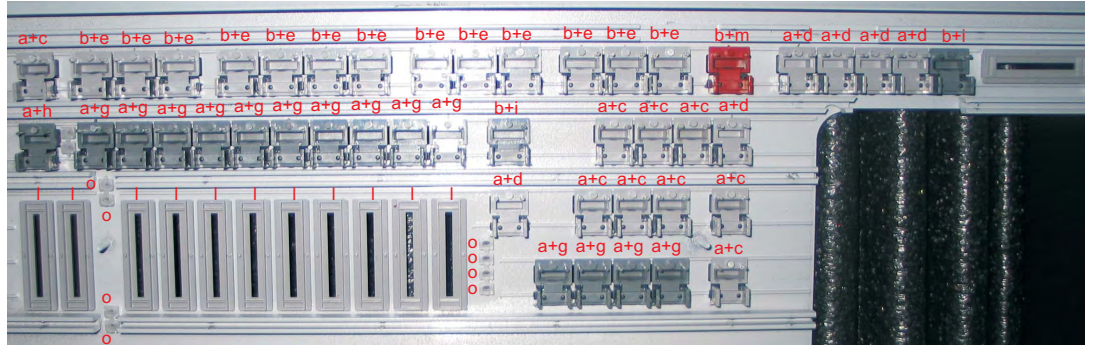


a=n°59 PLA0001137 (p=17mm)

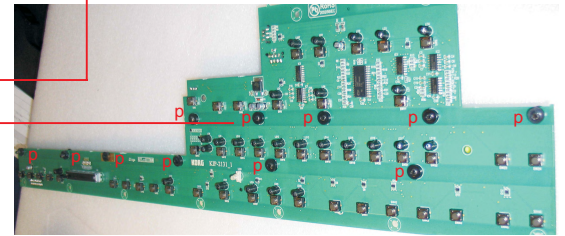
b=n°27 PLA0001138 (p=19mm)

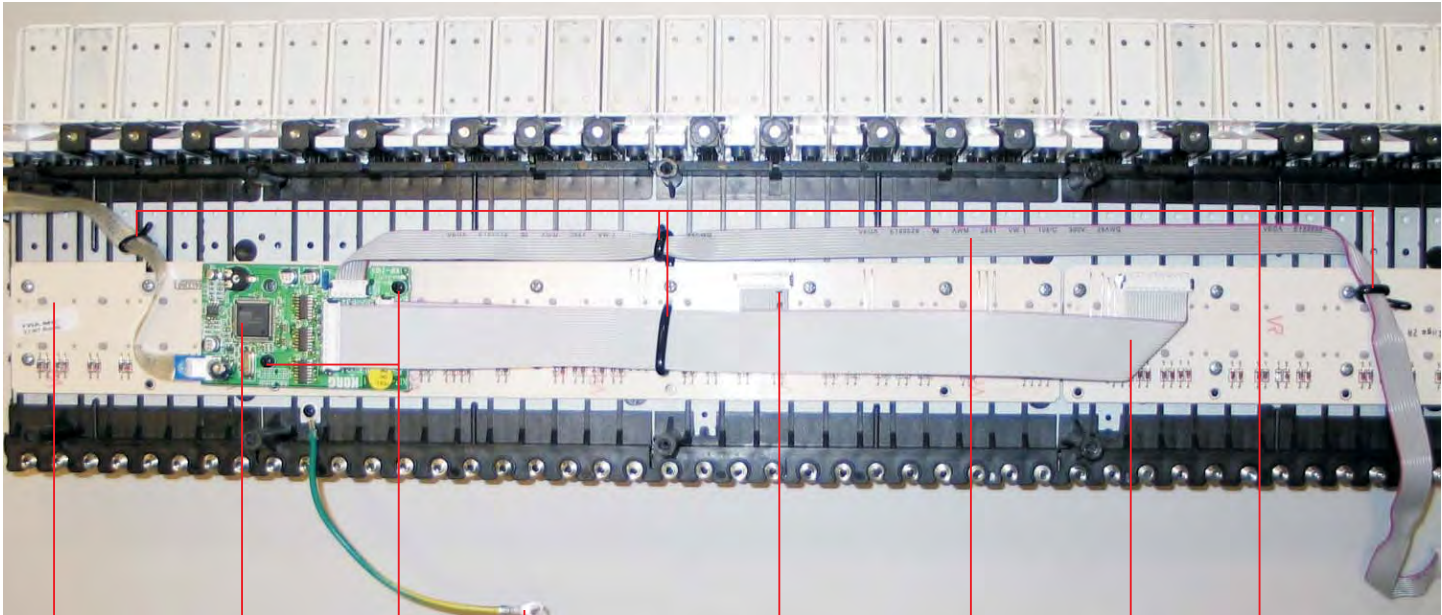
- c = n°18 PLA0001139
- d = n°16 PLA0001140
- e = n°15 PLA0001141
- f = n°7 PLA0001142
- g = n°24 PLA0010035
- h = n°3 PLA0010036
- i = n°4 PLA0010037
- l = n°12 PLA0001147
- m = n°1 PLA0001148
- n = n°1 PLA0010065
- o = n°13 PLA0001144
- p = n°20 PLA0001143

Upper Case disassembly 2



- PLA0001134
- PLA0001133
- PLA0001135
- FERL001051
- GRA0002130
- GRA0002131





TAS0001020

GRA1002105

VTA0001016

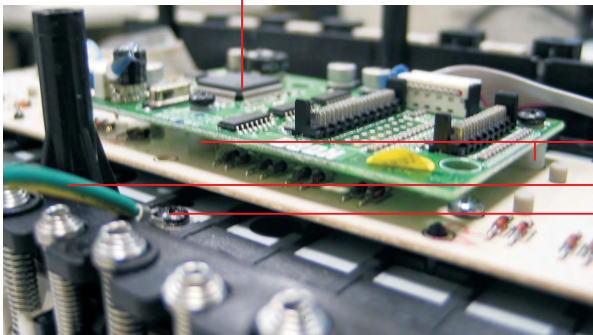
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CAV0010035

CAV0010034

CAV0010036

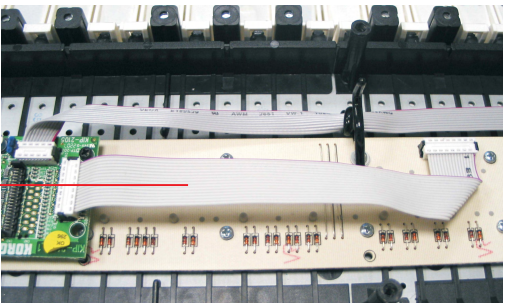
PLA0001046



PLA0001094

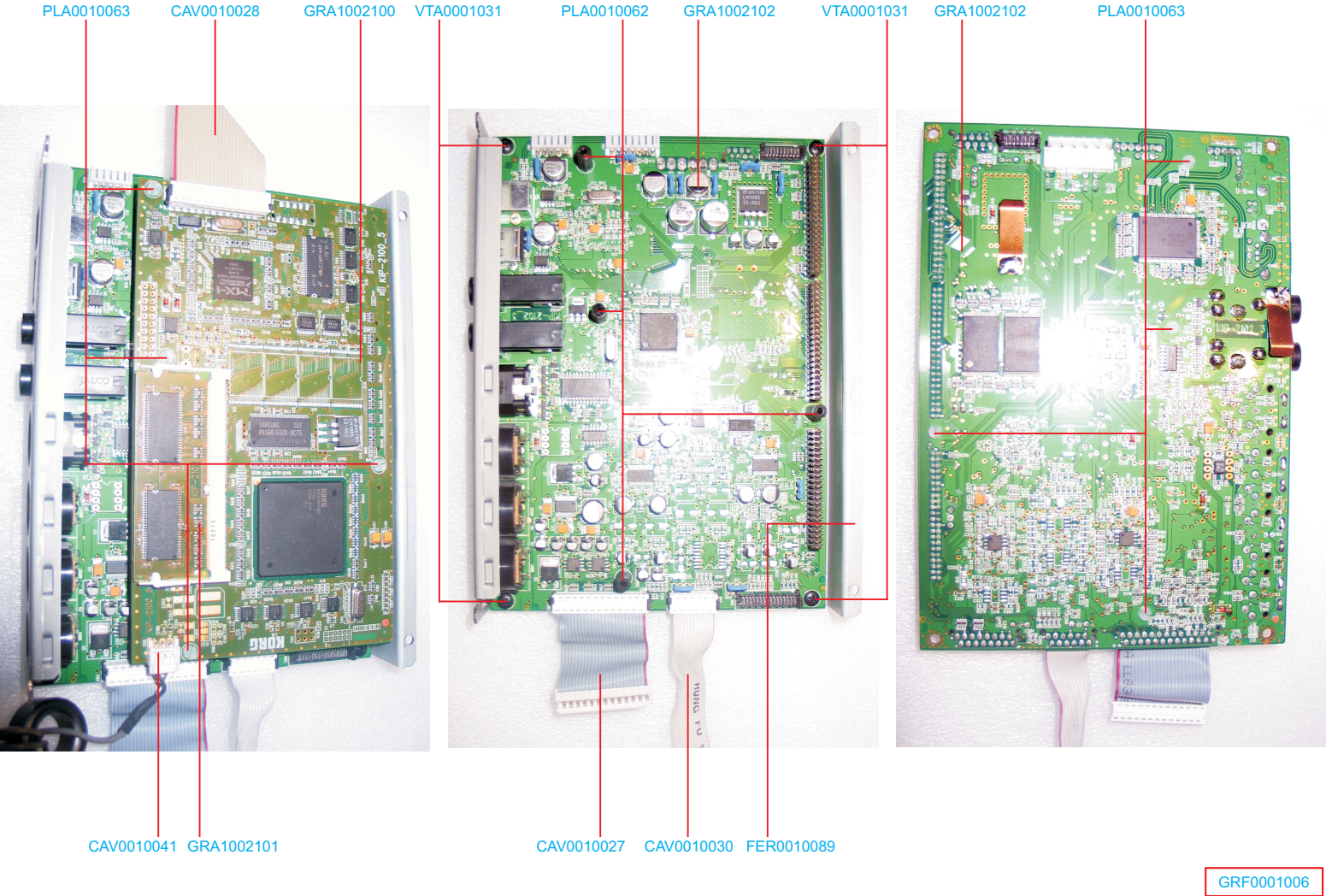
RIL0001066

VTA0001037

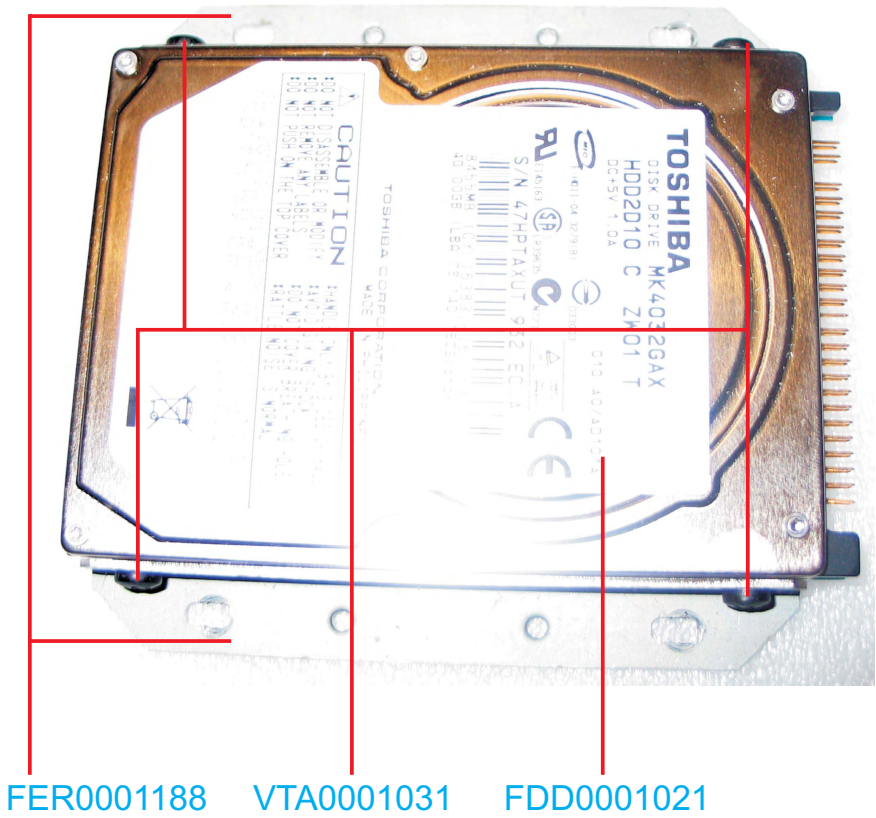


Keyboard Group

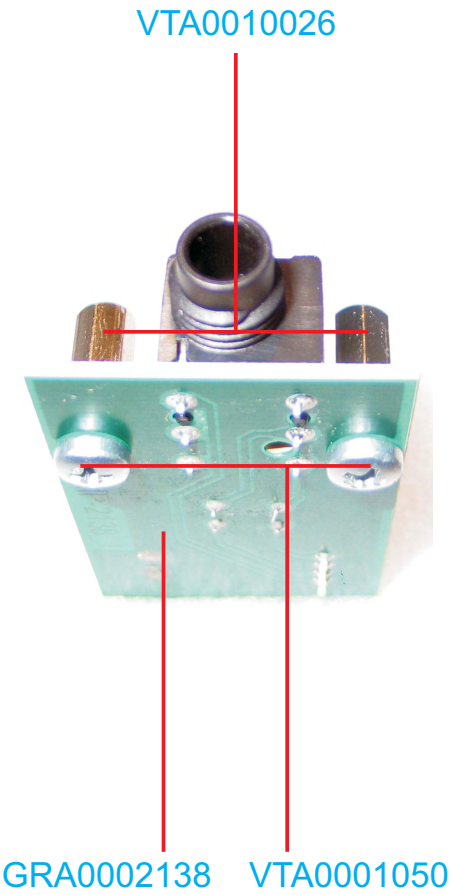




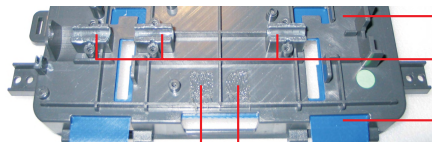
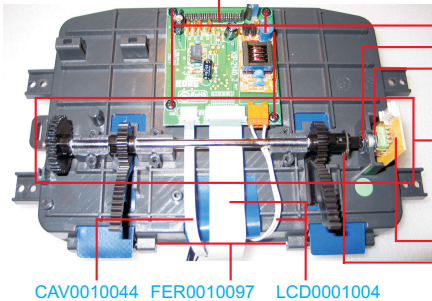
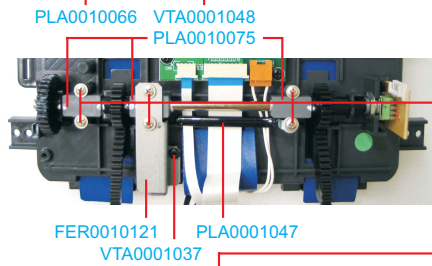
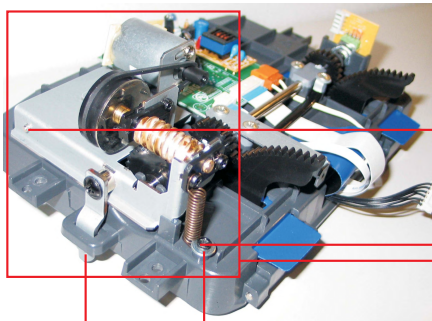
HDD group



Headphone Group







FER0010099

VTA0001039

FER0010095

VTA0001037

PLA0010077

FER0010116

PLA0010078

FER0010096

VTA0001010

VTA0010029

FER0010104

PLA0010073

VTA0010035

GRA0002140

VTA0001039

?

?

PLA0010067

GRA0002142

VTA0010041

PLA0010082

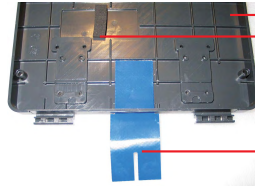
Grease

FEL0010043

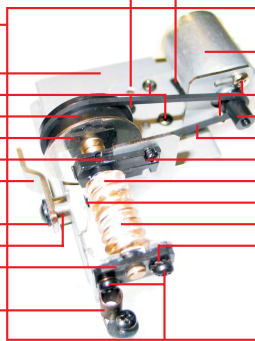
FELL001007

FELL001007

FEL0001056



FER0010113 FEL0010014



VTA0001025

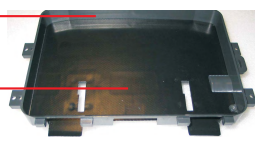
VTA0010036



PLA0010069

FER0010098

LCD group



PLA0010081  
FEL0001040

VTA0001039

FEL0010046

VTA0001037

PLA0010068

GRA0002141

FEL0010046

VTA0010040

PLA0010076

PLA0010079

VTA0001049

Grease

VTA0001045

FER0010103

VTA0001020

VTA0001037

GRA0002135

FEL0010044

LCD0001004

CAV0010044

PLAL001012

FEL0001029

VTA0001037

LCD0001004

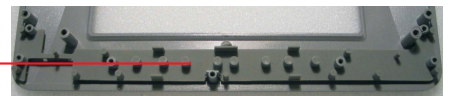
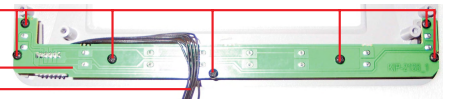
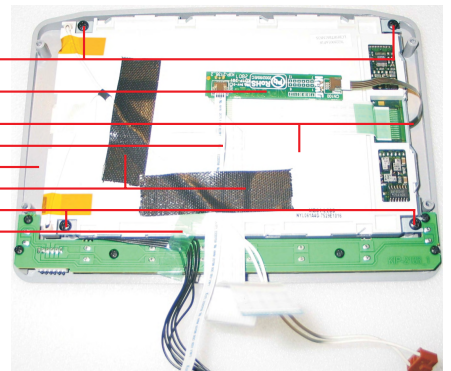
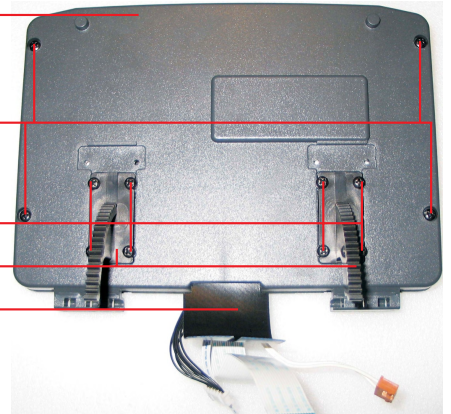
PLA0010070

VTA0001049

GRA0002133

CAV0010043

PLA0001132



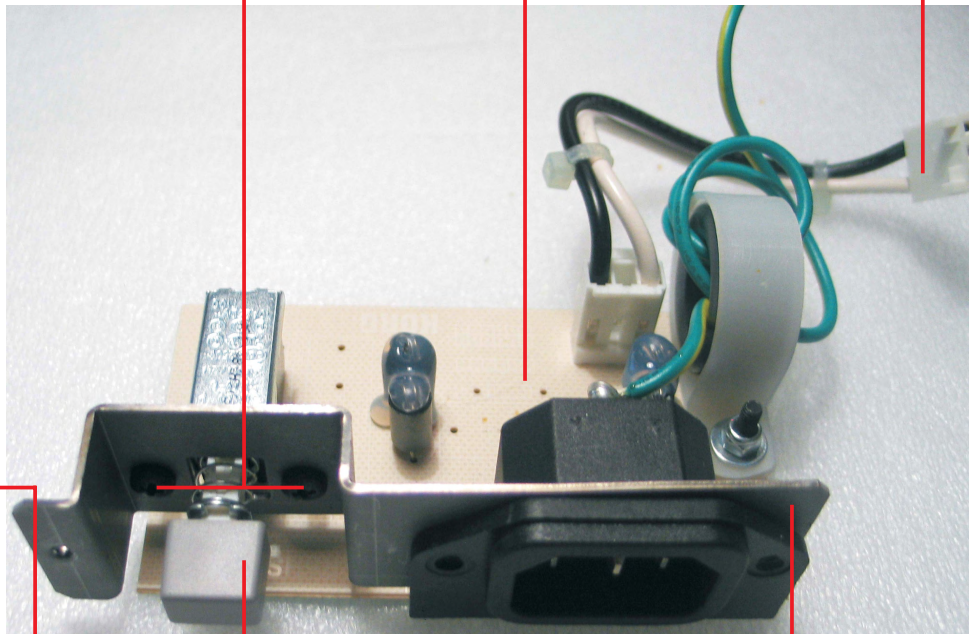
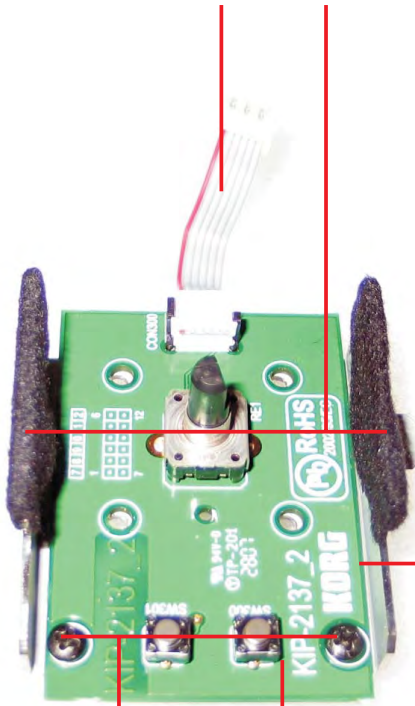
CAV0010032

FEL0001052

VTA0001031

GRA0002134

RIL0010012



VTA0001037

GRA0002137

FER0001157

PLA0001157

FER0010087

Dial Group

Main filter Group

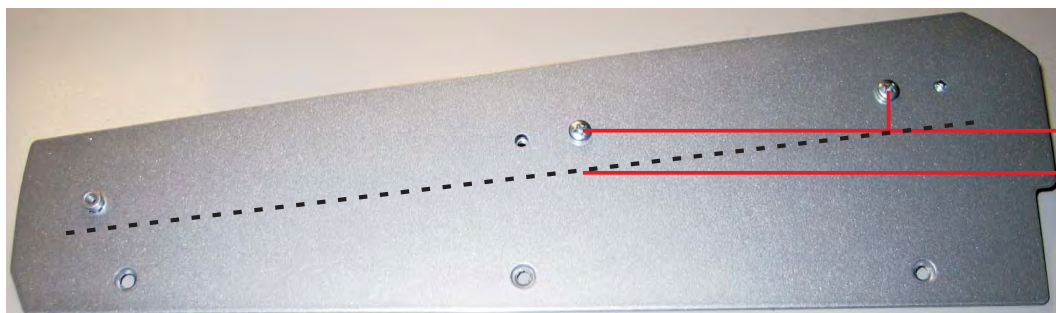


# Righ-Left Side group

FERL001049 (right)

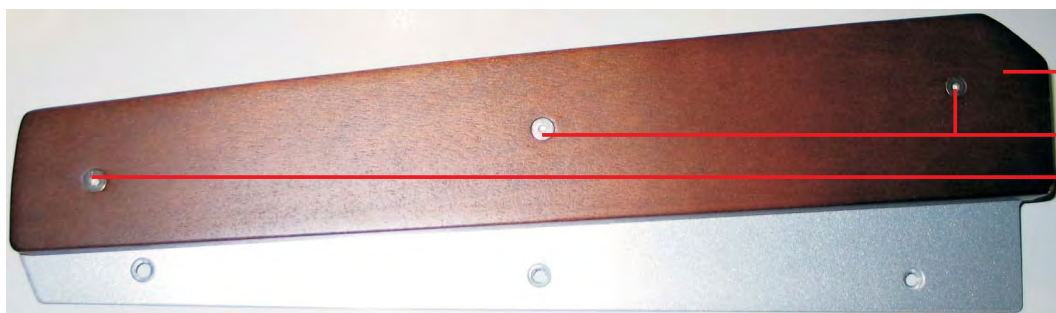
FERL001050 (left)

FER0010088 (right-left)



VTA0001050 (right-left)

FEL0001056 (right-left)



LEG0010052 (right)

LEG0010051 (left)

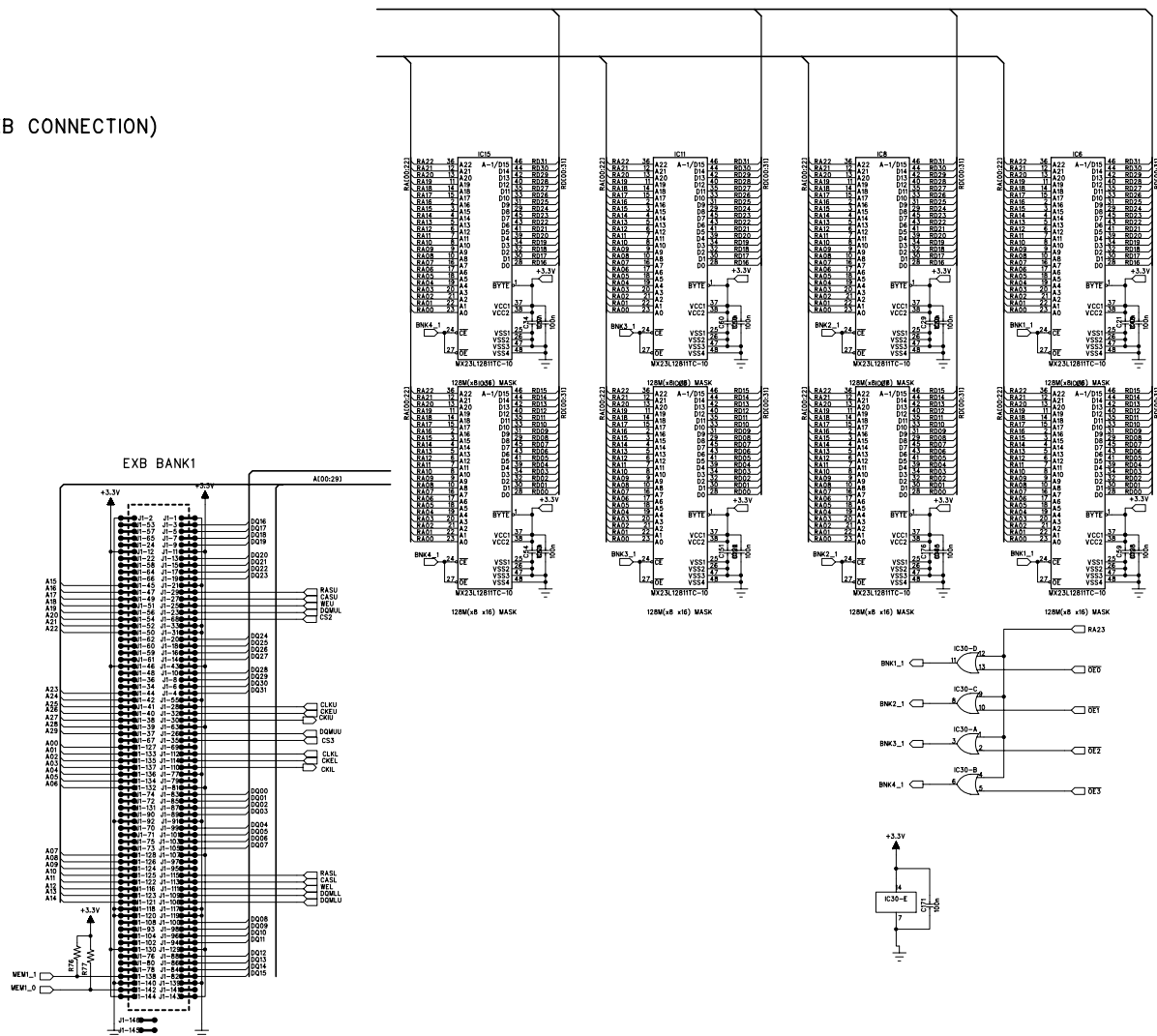
VTA0010039 (right-left)

VTA0010038 (right-left)



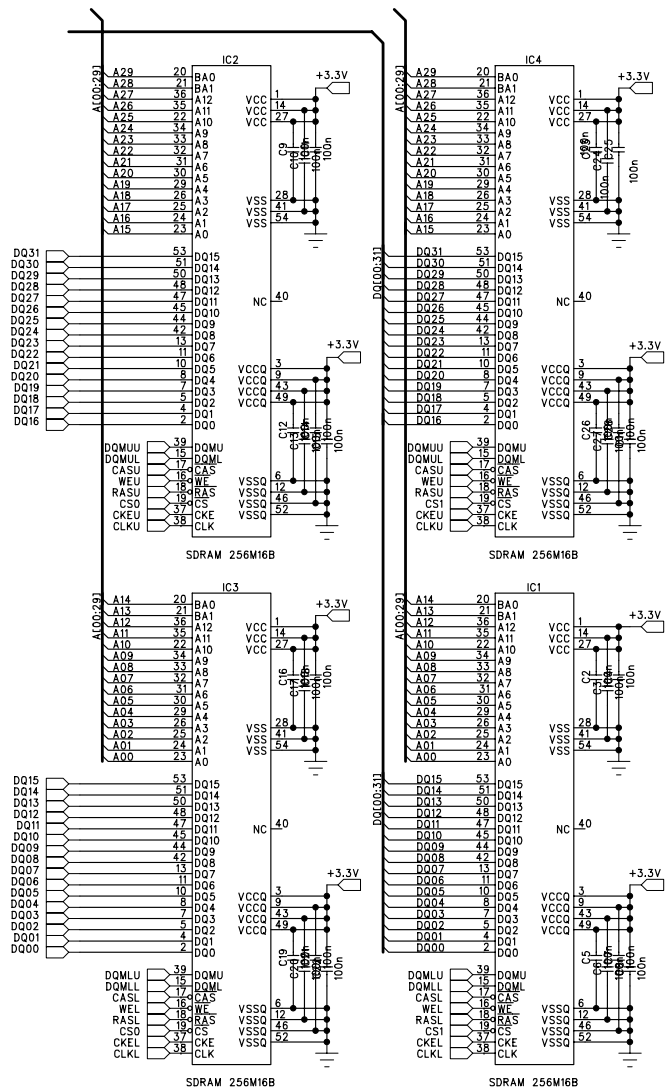
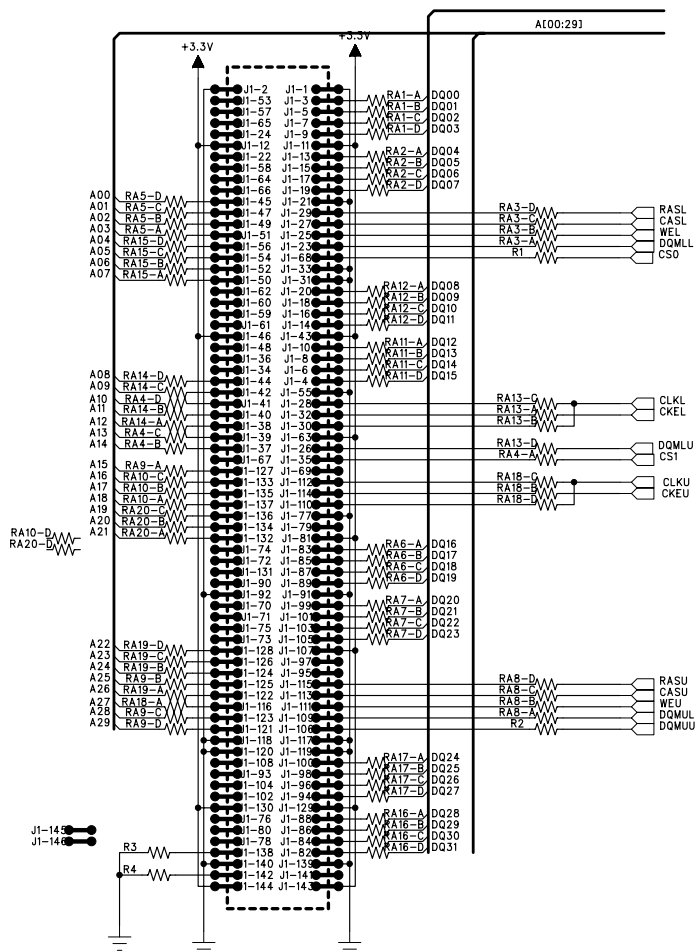


## CPU BOARD GRA1002100 (EXB CONNECTION)



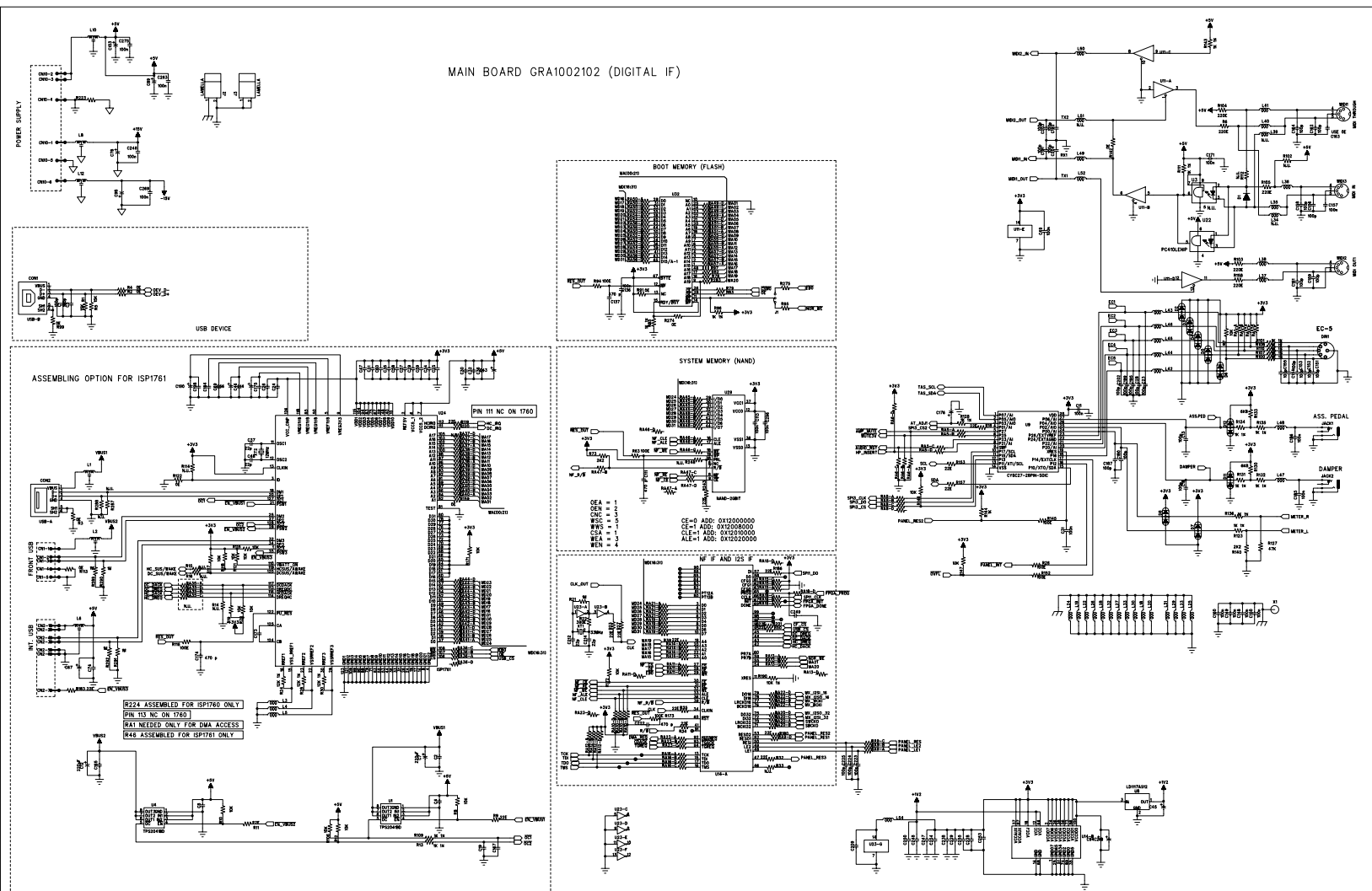


## 128MBYTE EXB GRA1002101



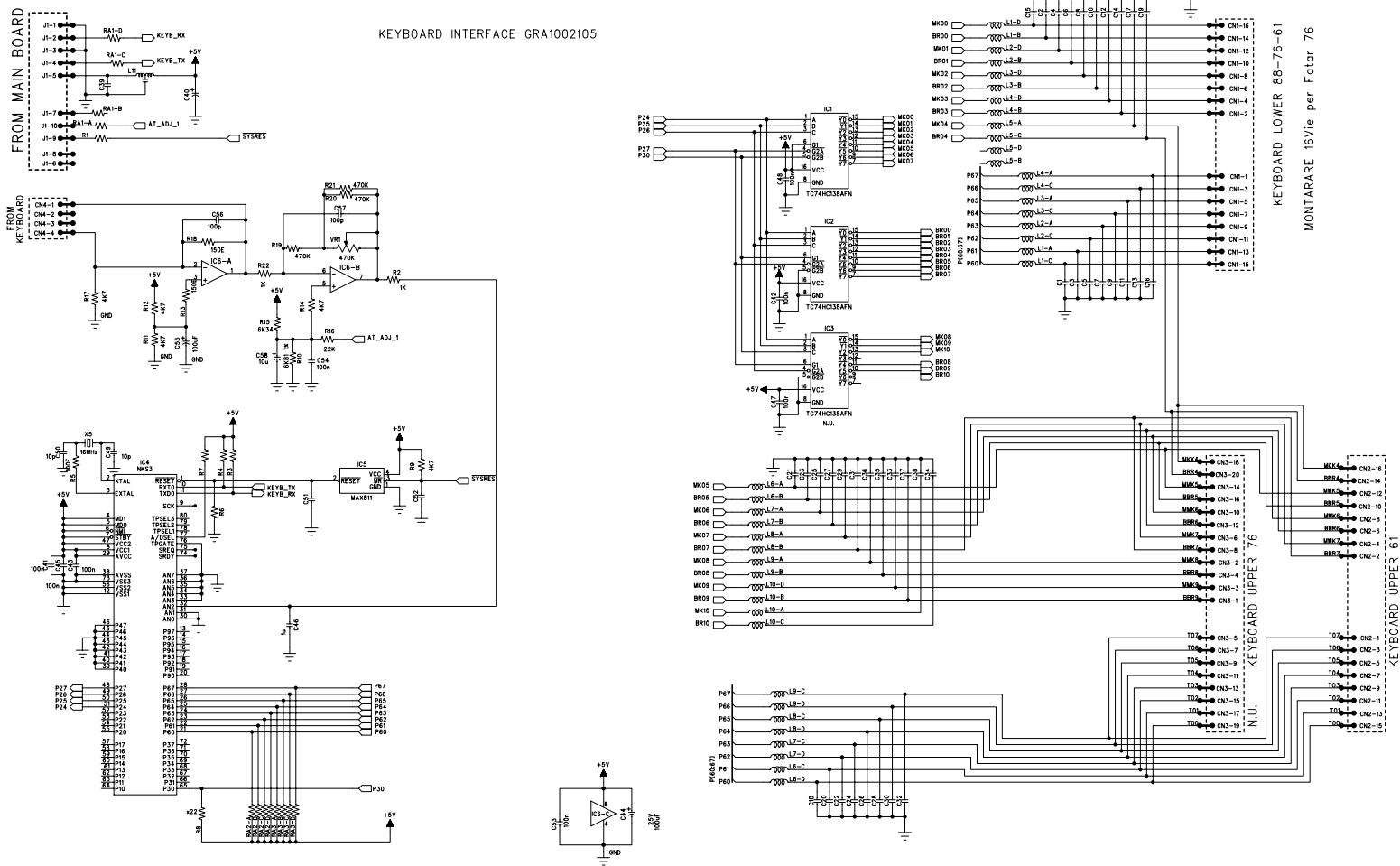




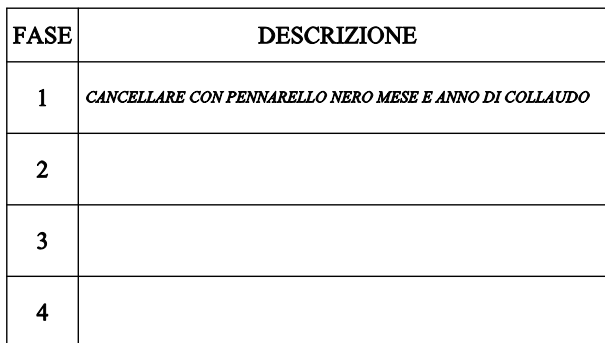








COMPANY:		<b>KORG</b>	
TITLE:		<i>SCHEDA LAVORAZIONE KIP-2105_1</i> <i>C.S. KEYBORD IF - PA2X -</i>	
CODE:	SIZE:	DRAWING NO:	REV:
		<i>KID-F102105_1</i>	
SCALE:		SHEET:	OF



**CANCELLARE CON PENNARELLO NERO MESE E ANNO DI COLLAUDO**

COMPANY: **KORG**

TITLE:	<i>SCHEDA LAVORAZIONE KIP-2105_1</i>
	<i>C.S. KEYBORD IF - PA2X -</i>

CODE:	SIZE:	DRAWING NO:	REV:
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		<i>KID-F102105 1</i>	
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SCALE		SHEET 25	
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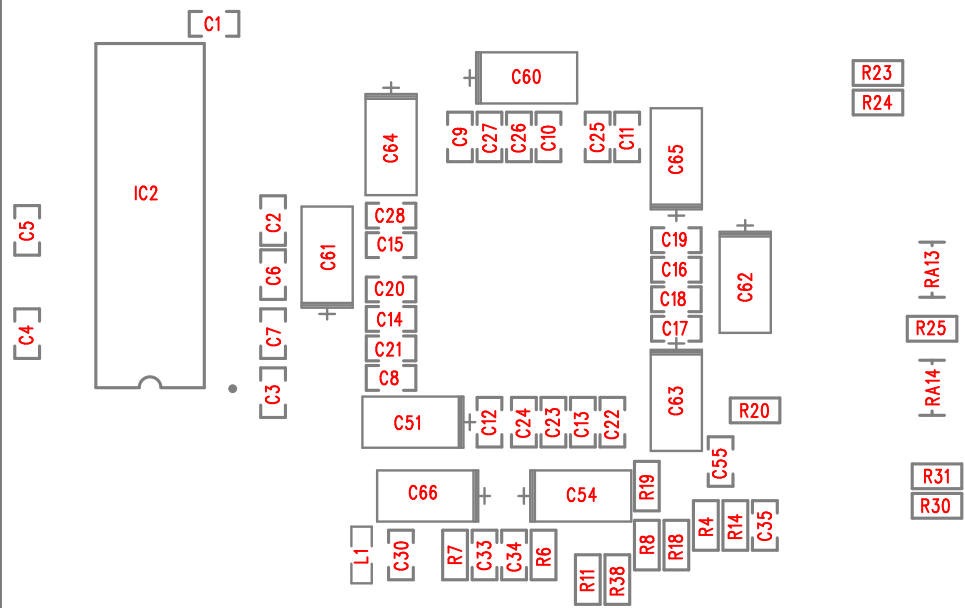
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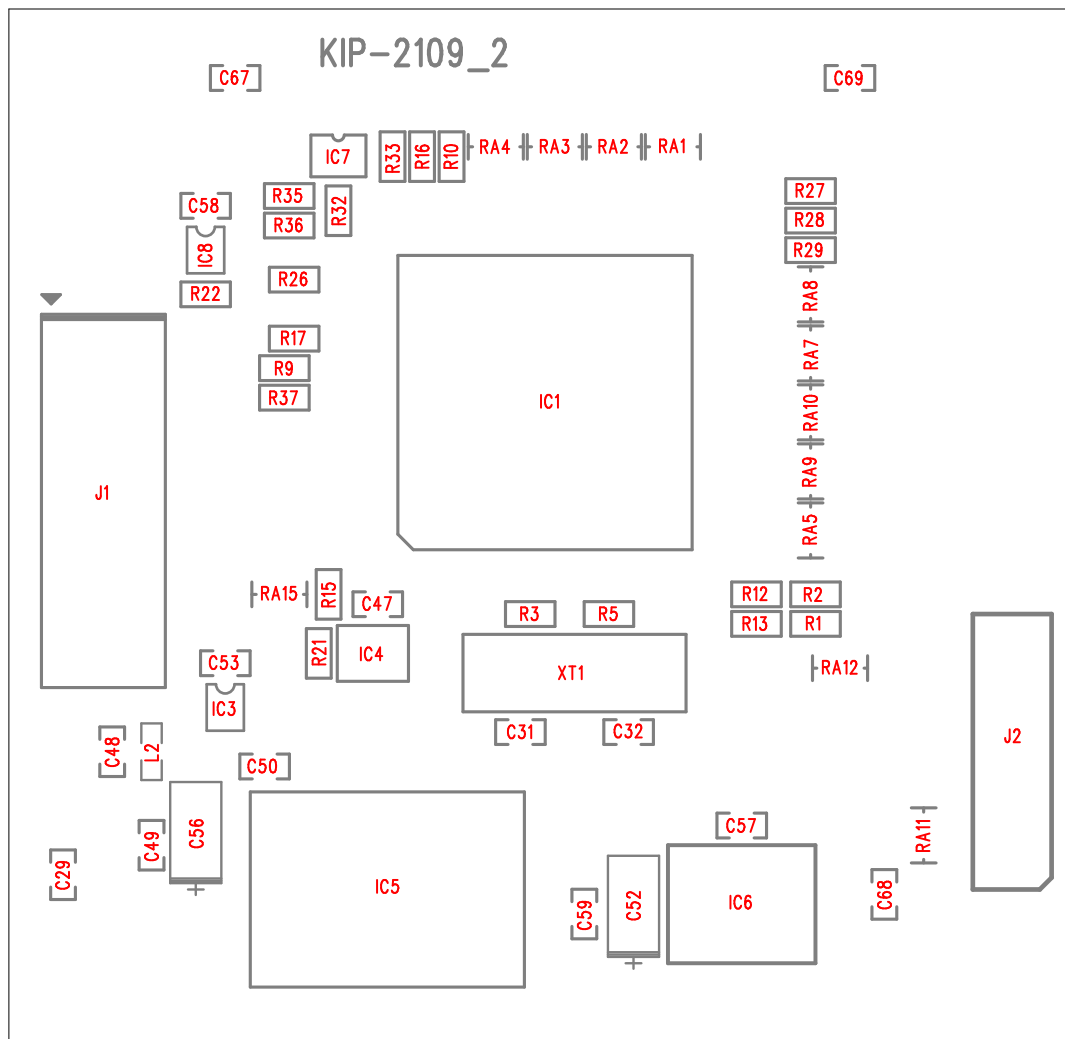
OSCIN -> use C31, C32, XT1, R3, R5, R6, R7, R8, don't use R18, C33, C34, short C34

OSCIN "plus" -> use C31, C32, C33, C34, XT1, R3, R5, R8, don't use R6, R7, R18



KIP-2109\_2

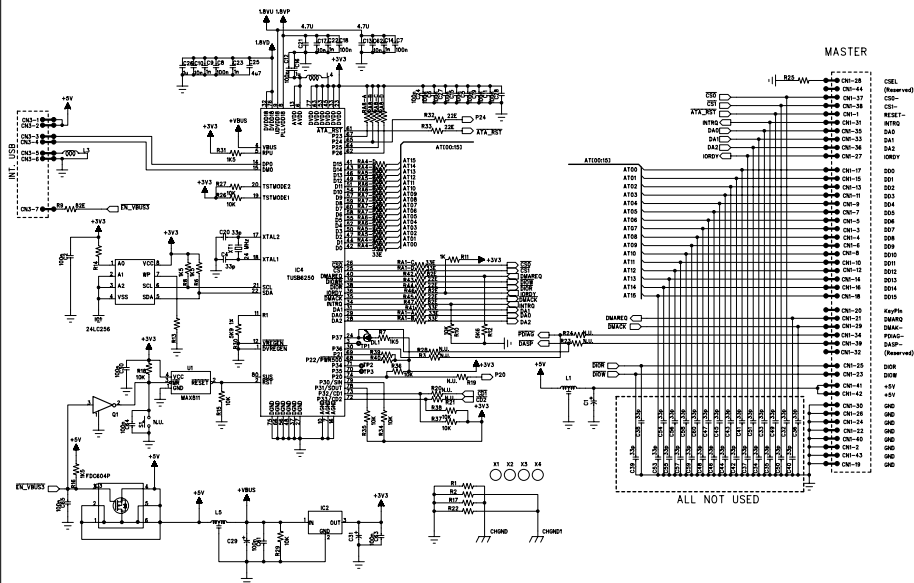




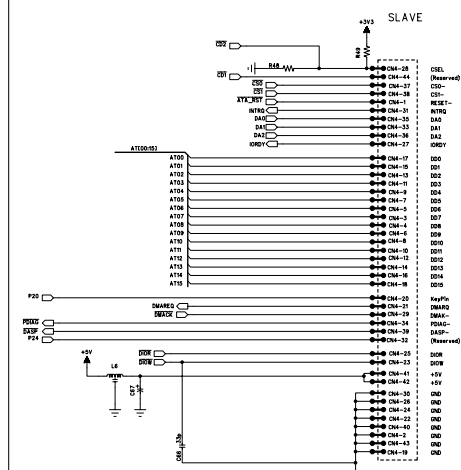




HD INTERFACE GRA0002120 (MASTER)



HD INTERFACE GRA0002120 (SLAVE)

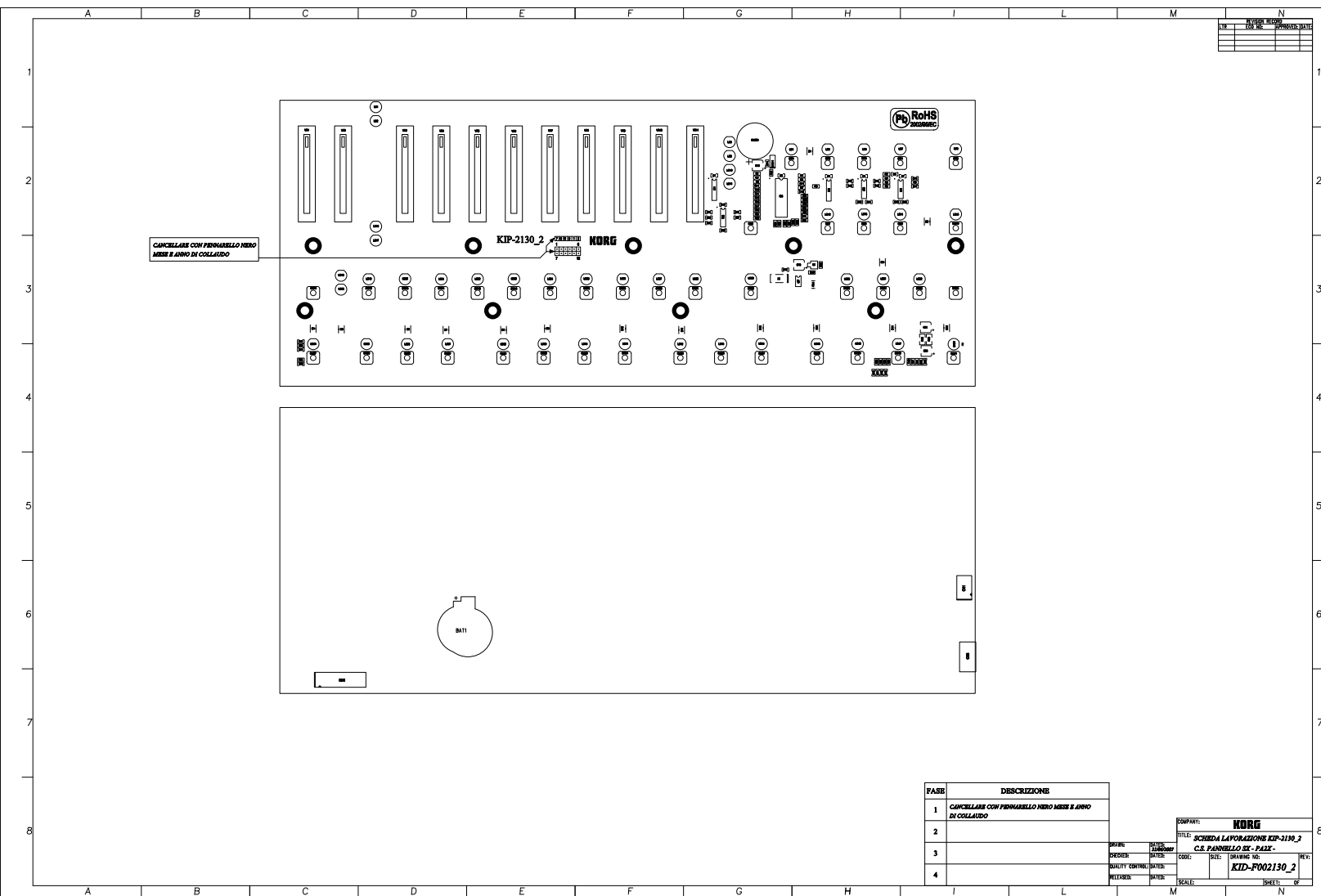


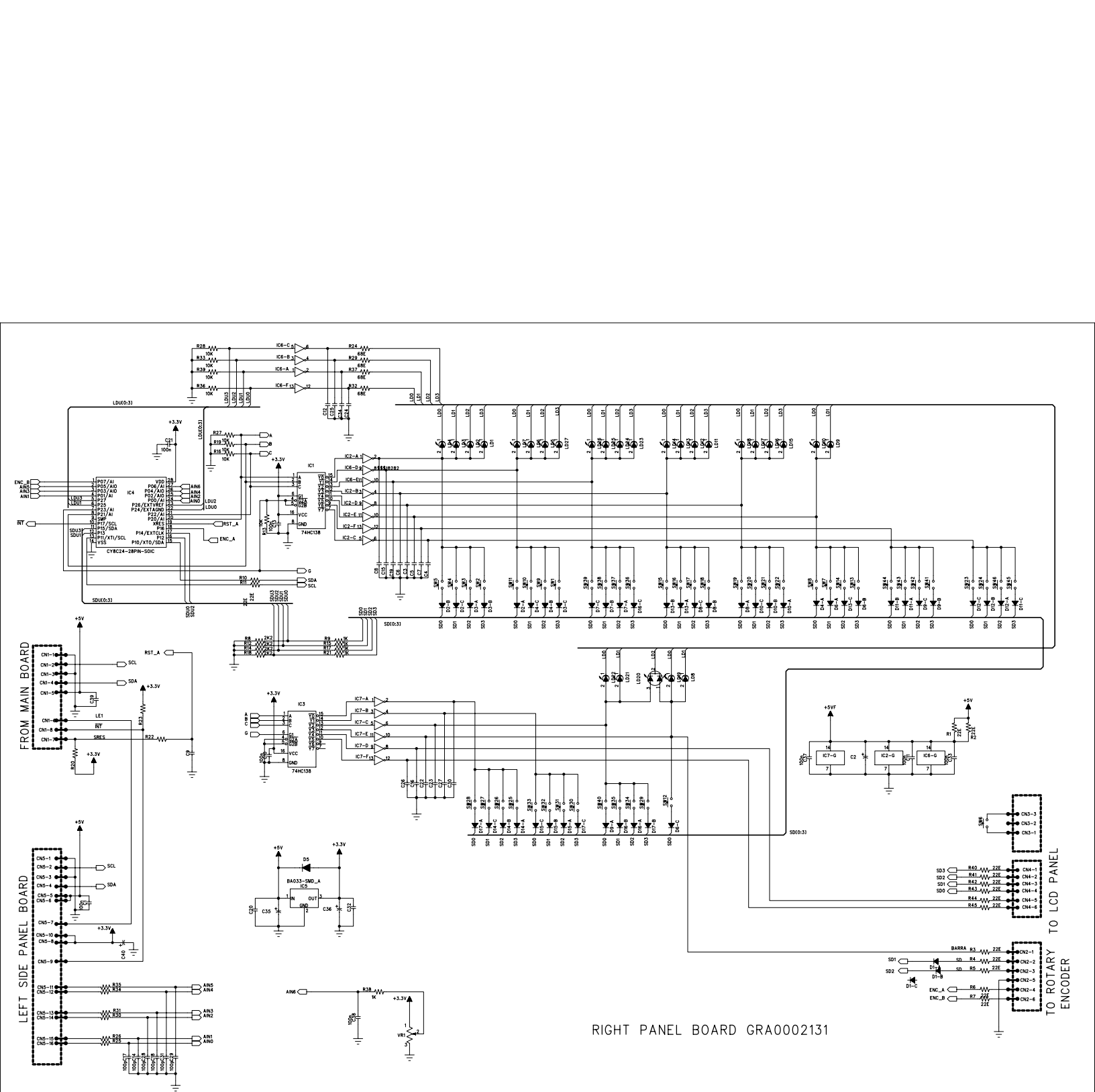
FOR SLAVE HD OR CDRW:  
 R28: 1K  
 R20: N.U.  
 R21: N.U.  
 R23: N.U.  
 R24: N.U.  
 R27: N.U.

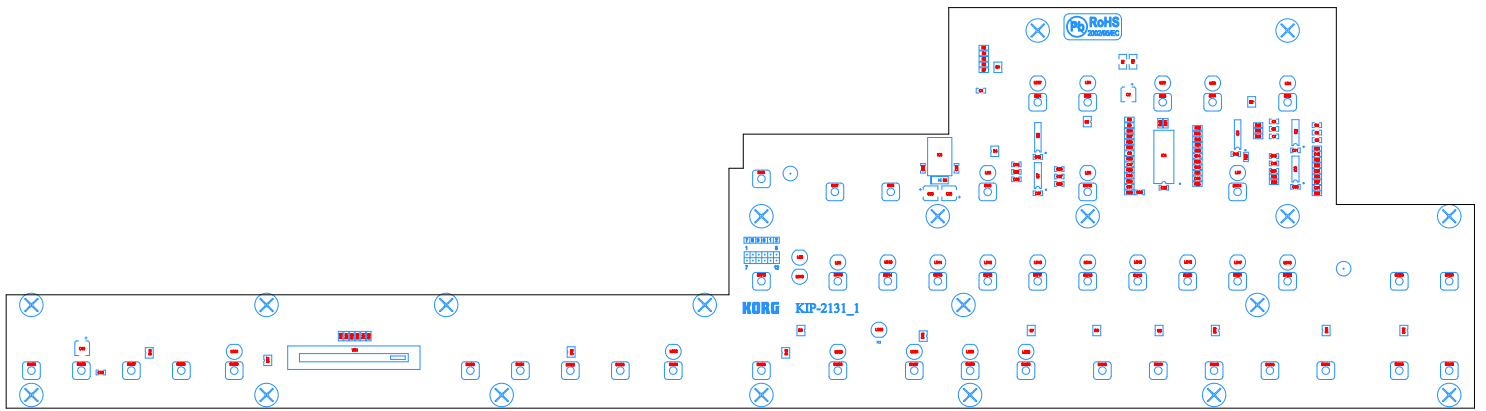
FOR SLAVE C.F.:  
 R28: N.U.  
 R20: N.U.  
 R21: 22E  
 R23: 22E  
 R24: 22E  
 R27: 22E

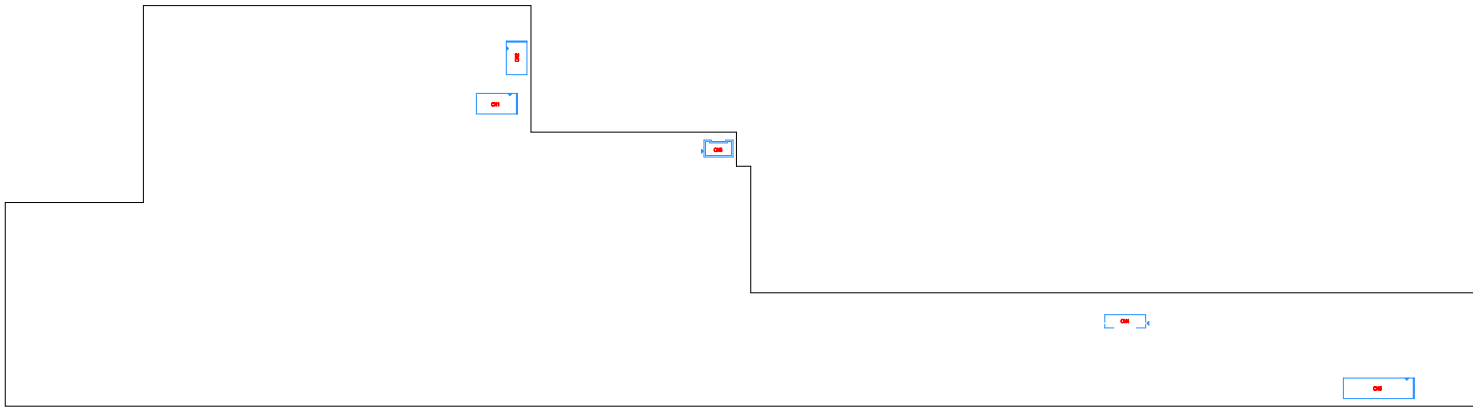
COMPANY:		<b>KORG</b>	
TITLE: <i>SCHEDA LAVORAZIONE KIP-2120_2</i>			
<i>H.D. INTERFACE - PA800 -</i>			
CODE:	SIZE:	DRAWING NO:	REV:
		<i>KID-F002120_0</i>	
SCALE:		SHEET:	OF



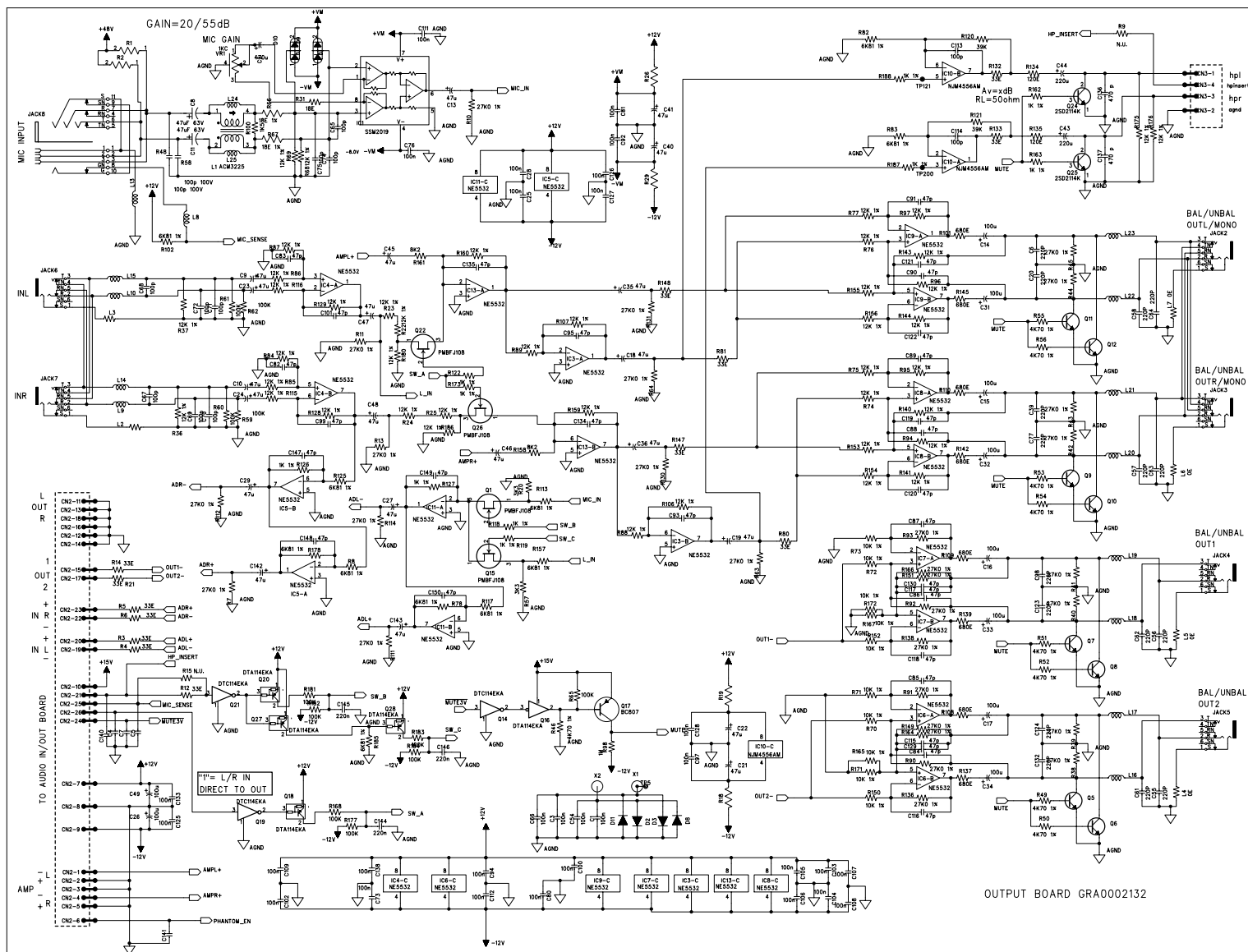




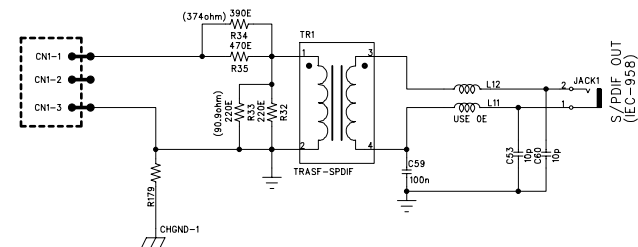
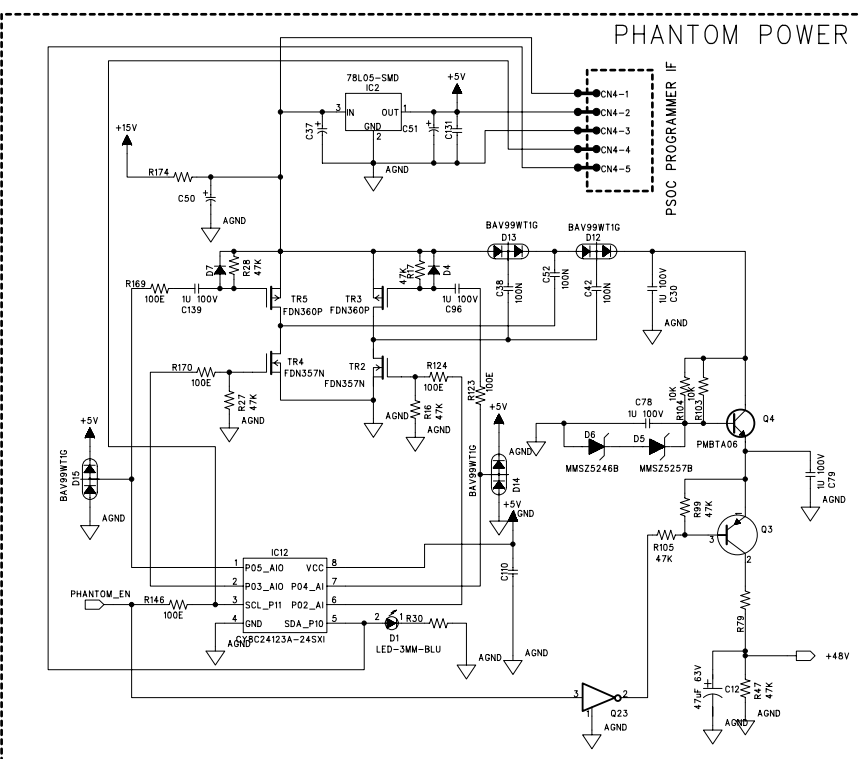




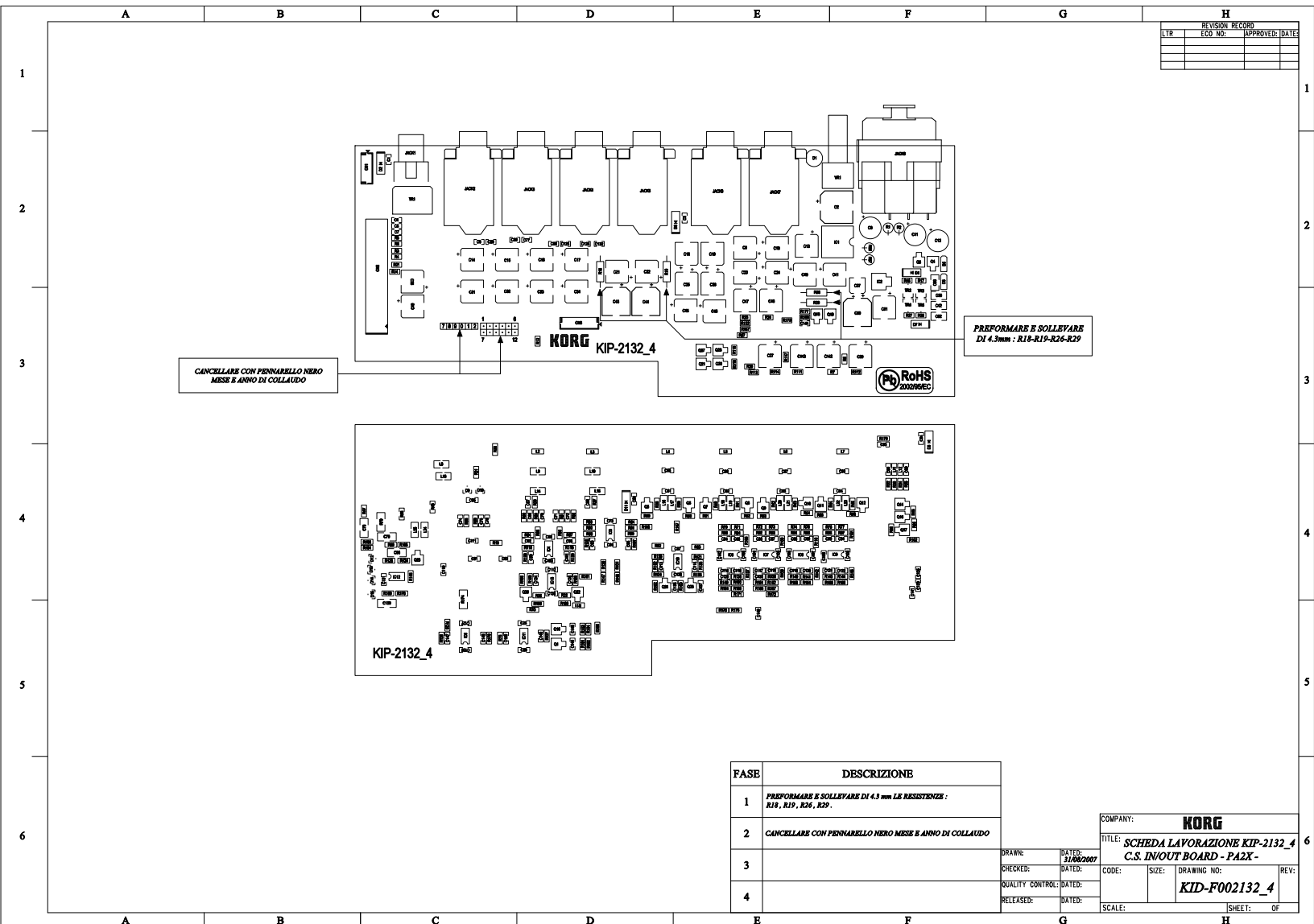


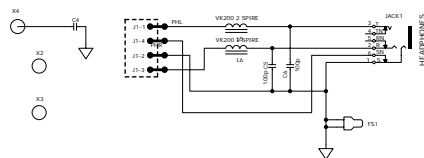
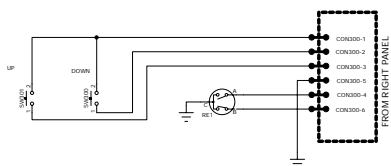
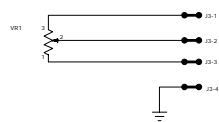
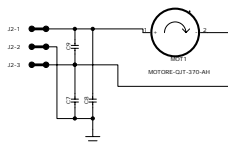
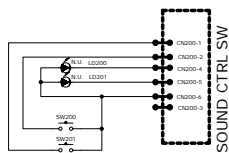
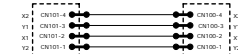


OUTPUT BOARD GRA0002132 (SPDIF)



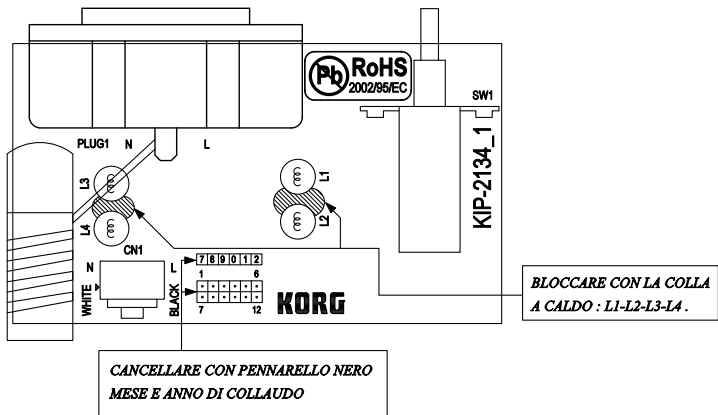
FOR SPARE PARTS OF IC12 PLEASE USE:  
CINL010002





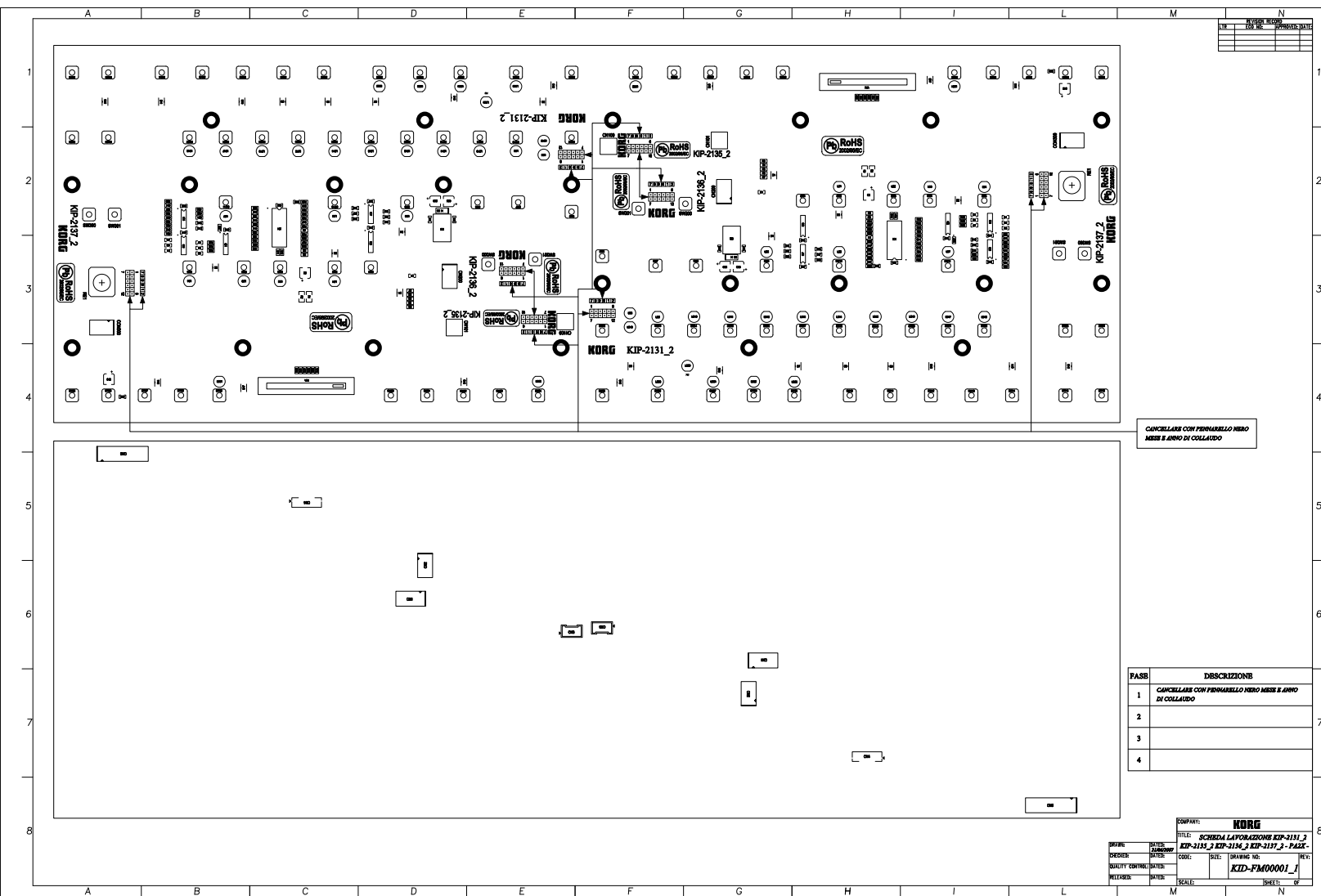
	A	B	C	D	E	F																																							
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2	<div><div><div>CANCELLARE CON PENNARELLO NERO MESE E ANNO DI COLLAUDO</div></div><div><div>SW4</div><div><div>789012</div><div><div>1</div><div>6</div><div>7</div><div>12</div></div></div><div>SW3</div><div><div>SW1</div><div>KORG</div><div>SW5</div><div><div>SW2</div><div><div>Pb</div><div>RoHS</div><div>2002/95/EC</div></div><div>SW7</div><div>KIP-2133_1</div><div>SW6</div><div>SW6</div></div></div></div></div>																																												
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4	<table><tr><th>FASE</th><th>DESCRIZIONE</th></tr><tr><td>1</td><td>CANCELLARE CON PENNARELLO NERO MESE E ANNO DI COLLAUDO .</td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>4</td><td></td></tr></table>	FASE	DESCRIZIONE	1	CANCELLARE CON PENNARELLO NERO MESE E ANNO DI COLLAUDO .	2		3		4		<table><tr><td>DRAWN:</td><td>DATED:</td></tr><tr><td>CHECKED:</td><td>DATED:</td></tr><tr><td>QUALITY CONTROL:</td><td>DATED:</td></tr><tr><td>RELEASED:</td><td>DATED:</td></tr></table>	DRAWN:	DATED:	CHECKED:	DATED:	QUALITY CONTROL:	DATED:	RELEASED:	DATED:	<table><tr><td colspan="4">COMPANY: KORG</td></tr><tr><td colspan="4">TITLE: SCHEDA LAVORAZIONE KIP-2133_1</td></tr><tr><td colspan="4">C.S. PANNELLO LCD - P2X -</td></tr><tr><td>CODE:</td><td>SIZE:</td><td>DRAWING NO:</td><td>REV:</td></tr><tr><td></td><td></td><td>KID-F002133</td><td></td></tr><tr><td colspan="2">SCALE:</td><td colspan="2">SHEET: OF</td></tr></table>	COMPANY: KORG				TITLE: SCHEDA LAVORAZIONE KIP-2133_1				C.S. PANNELLO LCD - P2X -				CODE:	SIZE:	DRAWING NO:	REV:			KID-F002133		SCALE:		SHEET: OF	
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FASE	DESCRIZIONE
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2	CANCELLARE CON PENNARELLO NERO MESE E ANNO DI COLLAUDO .
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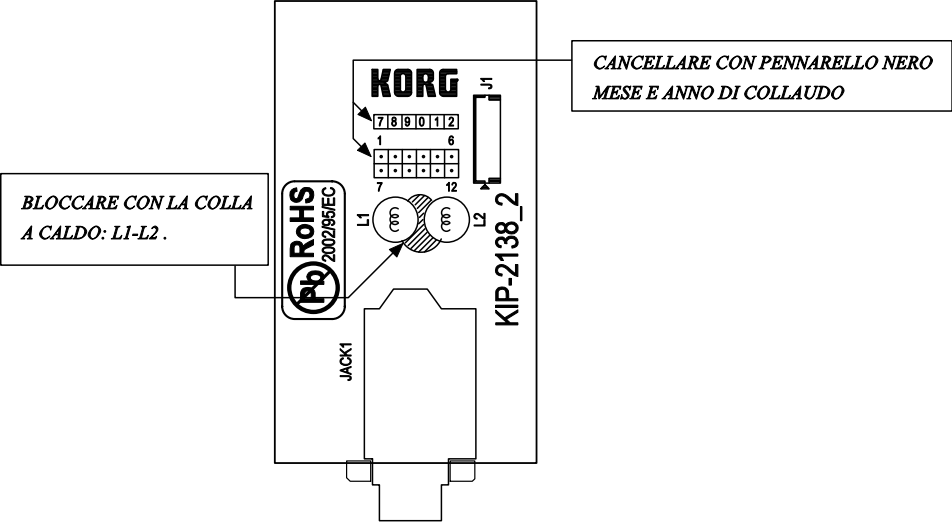
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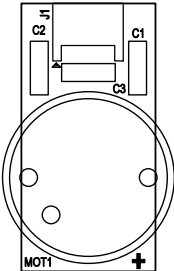


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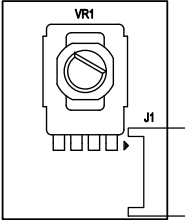
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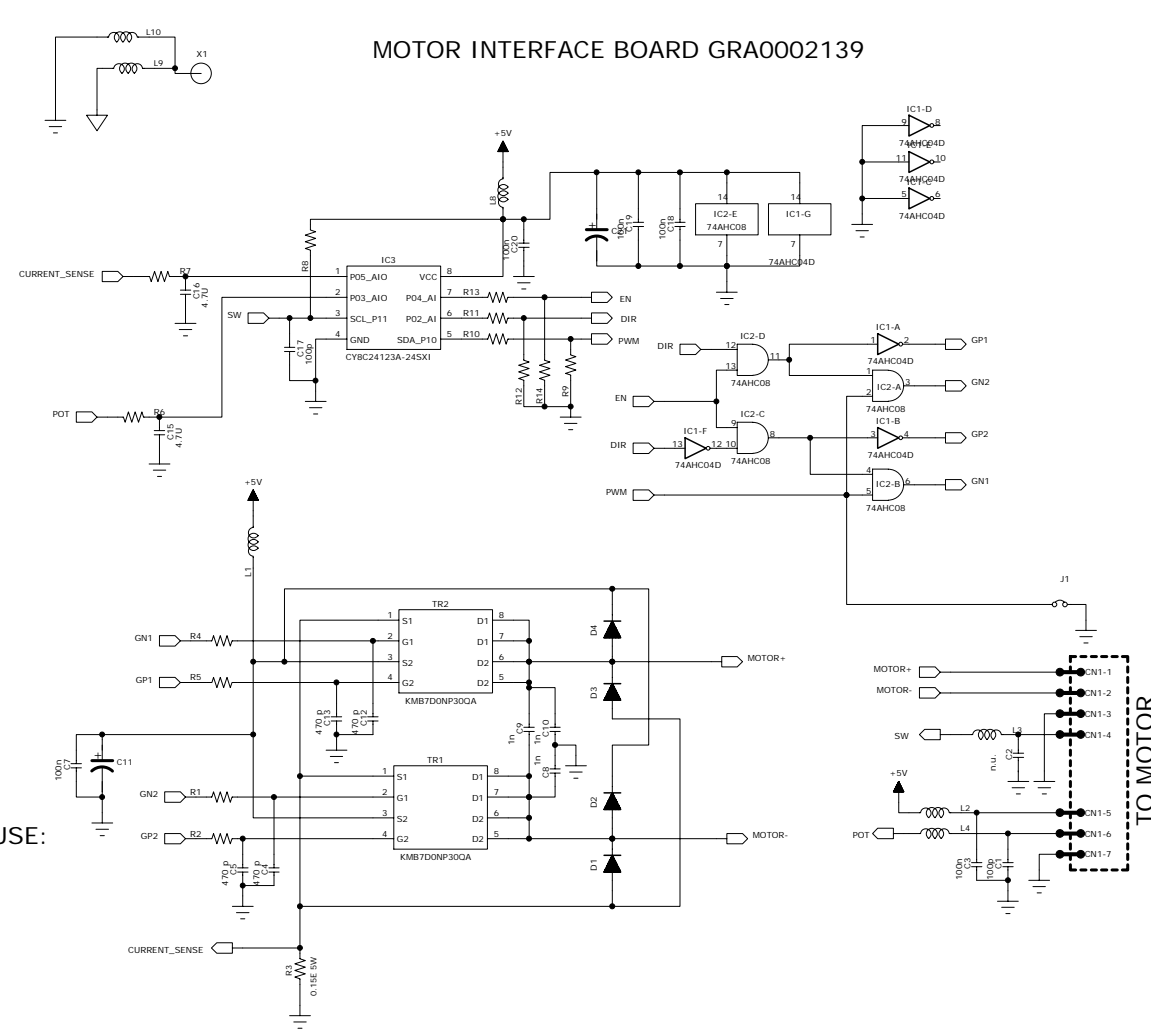
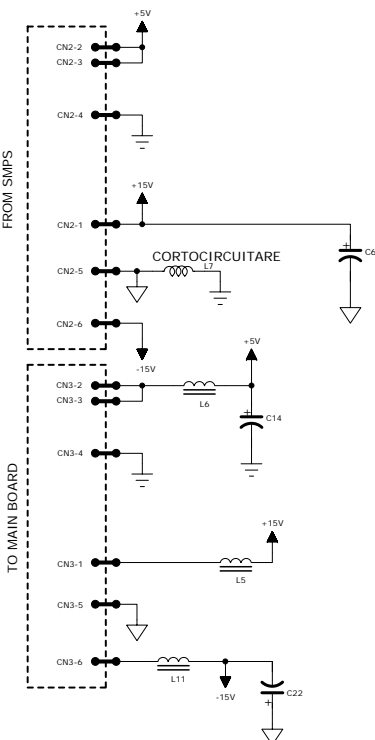
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QUALITY CONTROL:		DATED:		RILANCIO MOTORE -PA2X-																		
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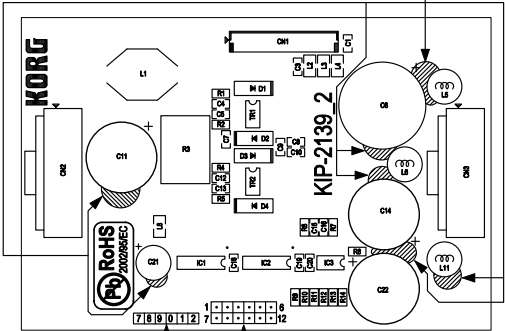
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		SCALE:		SHEET: OF



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BLOCCARE CON LA COLLA A CALDO: C6,C14,C22,C11,C21,L5,L6,L11.



CANCELLARE CON PENNARELLO NERO MESE E ANNO DI COLLAUDO

FASE	DESCRIZIONE
1	BLOCCARE CON LA COLLA A CALDO: C6,C14,C22,C11,C21,L5,L6,L11.
2	CANCELLARE CON PENNARELLO NERO MESE E ANNO DI COLLAUDO
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DRAWN:	DATED: 22/06/2007
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QUALITY CONTROL:	DATED:
RELEASED:	DATED:

COMPANY: KORG			
TITLE: SCHEDA LAVORAZIONE KIP-2139_2 C.S. MOTORE IF/SUPPLY -PA2X-			
CODE:	SIZE:	DRAWING NO:	REV:
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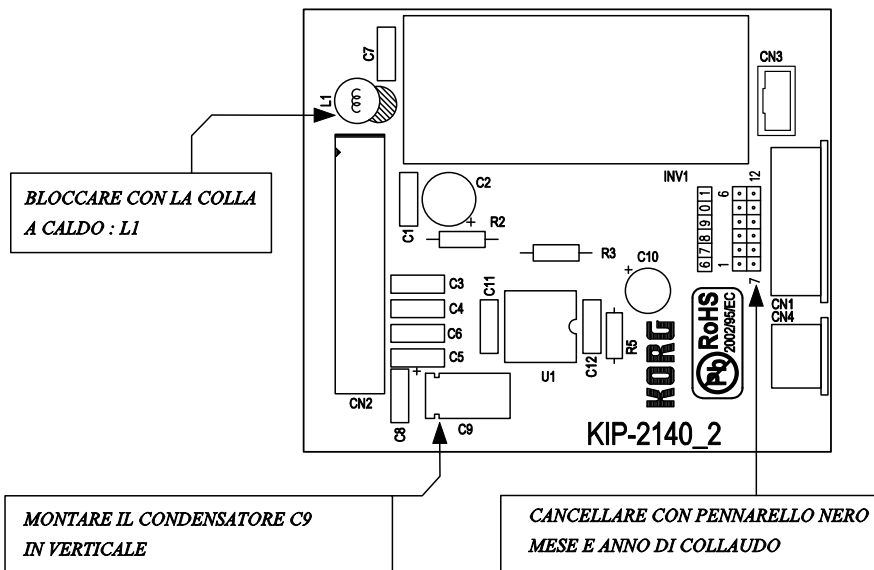
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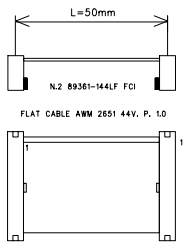
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2	BLOCCARE CON LA COLLA A CALDO: L1
3	CANCELLARE CON PENNARELLO NERO MESE E ANNO DI COLLAUDO
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QUALITY CONTROL:	DATED:
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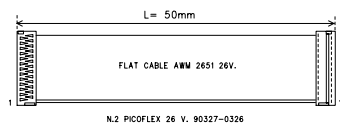
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SCALE:			SHEET: OF

## Pa2Xpro CABLES

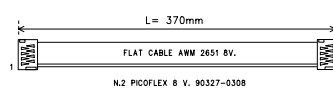
FLAT CABLE HDD IF OPT0001008 cod. CAV0010001 ref. LC



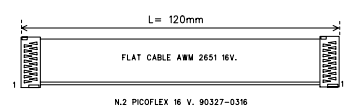
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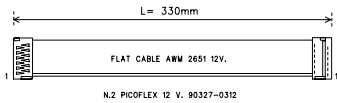
FLAT CABLE MB/RIGHT PANEL cod. CAV0010028 ref. D2-UC1-GRF



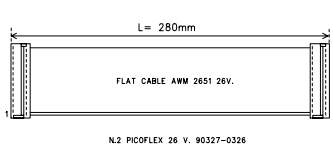
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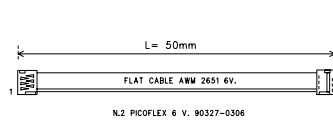
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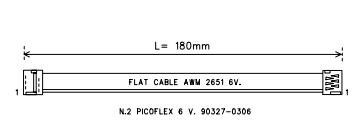
FLAT CPU/LCD IF cod. CAV0010031 ref. D2-LC



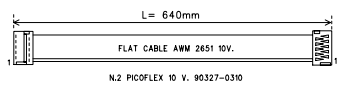
FLAT RX PANEL/DIAL cod. CAV0010032 ref. DG



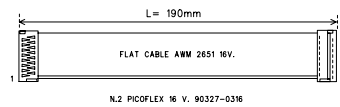
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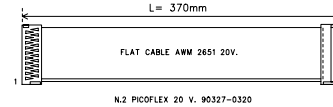
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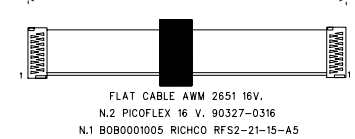
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FLAT CABLE KEYB IF/KEYB UPPER cod. CAV0010036 ref. KG

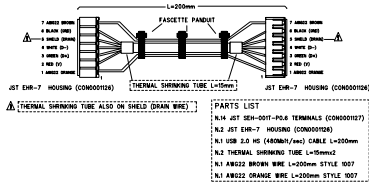


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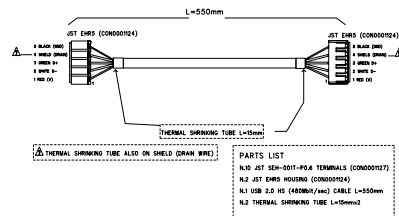


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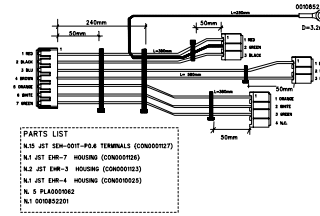
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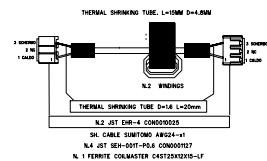
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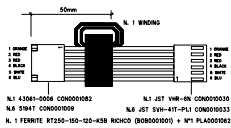
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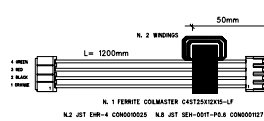
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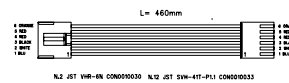
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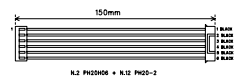
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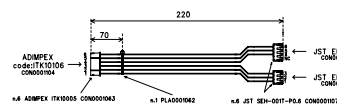
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HARNESS RX PANEL/LCD PNL cod. CAV0010043 ref. LCD



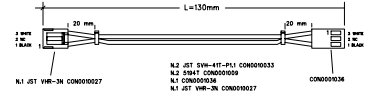
HARNESS JOYSTICK cod. RI0001081 ref. UC1



AWG HARNESS cod. RI0001066 ref. KG



HARNESS PRIMARY cod. RI0010012 ref. LC MG





# Pa2Xpro PART LIST

## PART LIST ELECTRIC COMPONENTS

CODE	DESCRIPTION	REFERENCE	Q.TY
GRF0001006	MAINBOARD-CPU GROUP	LC	1
GRA0002109	MP3 INTERFACE	LC	1
GRA0002120	HD INTERFACE	LC	1
GRA0002130	LEFT PANEL BOARD	UC1 UC2	1
GRA0002131	RIGHT PANEL BOARD	UC1 UC2	1
GRA0002132	OUTPUT BOARD	LC	1
GRA0002133	LCD PANEL	LCD	1
GRA0002134	MAIN FILTER	MG	1
GRA0002135	TOUCH PANEL INTERFACE	LCD	1
GRA0002136	SOUND CONTROL PANEL	UC1	1
GRA0002137	ROTARY ENCODER	DG	1
GRA0002138	HEADPHONE BOARD	HG	1
GRA0002139	MOTOR INTERFACE BOARD	LC	1
GRA0002140	LCD INTERFACE	LCD	1
GRA0002141	MOTOR HARNESS BOARD	LCD	1
GRA0002142	DISPLAY POTENTIOMETER BOARD	LCD	1
GRA1002105	KEYBOARD INTERFACE	KG	1
GRA1002114	FRONT USB CONNECTOR	UC1	1

## PART LIST MAINBOARD-CPU GROUP GRF0001006

CODE	DESCRIPTION	REFERENCE	Q.TY
GRA1002100	CPU BOARD PA2X	GRF	1
GRA1002101	128MBYTE SDRAM EXB SODIMM 144	GRF	1
GRA1002102	MAIN BOARD PA2X	GRF	1
PLA0010062	DISTANZIATORE ES.NYLON F/F HTSN-M2.5-14-05-01	GRF	4
PLA0010063	SCREW NYLON M2.5M, TC NSE-1207-M2.5-06	GRF	8
FER0010089	TELAIO MAIN BOARD	GRF	1
VTA0001031	SCREW 3MX6 TC NERE	GRF	4

# Pa2Xpro PART LIST

## PART LIST CPU BOARD GRA1002100

CODE	DESCRIPTION	REFERENCE	Q.TY
CIN0002075	DSP TG01 MB87M4080PB-G (KORG INC)		1
CIN0002076	USB DEVICE TRANCEIVER ISP1105BS (PHILIPS)		1
CIN0002077	INT. SYSTEM PROCESSOR MC9328MX1VM20		1
CIN0003043	IC.SDRAM 16MX16 MT48LC16M16A2TG-75 SOP54		6
CIN0004005	RES.GEN.3,3V ETC811SUC		1
CIN0010031	IC BUFFER, SN74LVC541APWR, TSSOP20		3
CIN0010032	8BIT BID.BUF. W TRIS.SN74LVC245APWR, TSSOP20		2
CIN0010033	QUAD 2 IN OR GATE, SN74LVC32APWR, TSSOP14		4
CIN0010034	HEX SCHMITT TRIG. INV. SN74LV14APWR, TSSOP14		1
CIN0010035	HEX.UNB. INV. SN74AHCU04PW, TSSOP14		1
CIN0010036	DUAL D- FLIP FLOP.SN74LVC74APWR, TSSOP14		1
CIN0010037	SDRAM, 64MBIT, 16BIT, K4S641632K-UC75, SSOP54		1
CIN0010039	SINGLE 2 IN AND GATE, 74LVC1G08DCK, DCK5		2
CON0001128	26X1.27 VER. PICO FLEX SMD 90814-0026		1
CON0001129	SODIMM CONN. 144PIN SIDE ENTRY 54698-1440		1
CON0010014	CONN. M. OR. PTH, 1 FILE, 3 VIE, 2,5MM, S3BEH, JST		1
CON0010040	STRIP F. VER. SMD, 2 F,44V,2MM, H4.6,CB74442M100		3
DIX0006003	SMD DIODE RLS-4148		2
QUA0006004	X-CRYSTAL SMD HCM49 16MHZ		1
QUA0006005	X-CRYSTAL SMD HCM49 24.576MHZ		1
QUA0006012	X-CRYSTAL SMD 32.768KHZ SMD PKG CM200S		1
TRS0002015	ADJ OUT 1.5° LD1086D2T ST/LM1086CSX-ADJ NAT.		1

## PART LIST 128MBYTE SDRAM EXB SODIMM 144 GRA1002101

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CIN0003043	IC.SDRAM 16MX16 MT48LC16M16A2TG-75 SOP54		4

# Pa2Xpro PART LIST

## PART LIST MAIN BOARD GRA1002102

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CIN0002026	I.C.SN74AHC04D HEX.UND.		1
CIN0002040	I.C.NJM4580M OP.AMP.		4
CIN0002074	I.C. SN74 LVC 125A QUAD BUFFER 3-STA		1
CIN0010000	CONV. D/A, 24BIT, DR=120DB, CS4398-CZ,TSSOP28		2
CIN0010001	CONV. A/D, 24BIT, DR=114DB, CS5361-KZ ,TSSOP24		1
CIN0010003	INTERF. USB HOST CONTR., ISP1761, LQFP128		1
CIN0010004	FPGA LFEC1E-3T100C, TQFP100		1
CIN0010007	DSP TAS3103		1
CIN0010025	1CH USB POWER SW. 0,5A-0,7A TPS2041BD, SOP8		2
CIN0010027	OPTOIS. PC410LENIP-OF, SOP6		1
CIN0010029	NANDFLASH,2GBIT,8BIT,K9F2G08U0M-PCB0,TSOP48		1
CIN0010030	PSOC UC CYPRESS CY8C27443-24SXI SOP28		1
CIN0010041	NOR FL,16MBIT,16BIT,MX29LV160CTTC-70G, TSOP48		1
CON0001075	CONN.BLK PICO FLEX 12 VIE 1.27		1
CON0001076	CONN.BLK PICO FLEX 16 VIE 1.27		1
CON0001078	CONN.BLK PICO FLEX 26 VIE 1.27		1
CON0001079	CONNETTORE USB 67068-0000		1
CON0005001	CIRCULAR 5-PIN DIN GQ004005		3
CON0005011	MIDI MG/PR6L STE.(EC.5)		1
CON0005012	STEREO JALCO JACK YKB21-5074G		2
CON0010000	CON. M. V. PTH, 2 FILE, 8 VIE, 1.27MM		1
CON0010001	CON. M. V. PTH, 2 F., 10 V., 1.27MM, 90325-0010		1
CON0010009	USB CONN. TYPE A,		1
CON0010012	MALE CONN. PTH, 1 FILE, 7 VIE, 2,5MM, S7BEH, JST		1
CON0010018	MALE CONN. PTH, 1 FILE, 5 VIE, 2,5MM, S5BEH, JST		1
CON0010039	STRIP M. V. PTH,2F,22V,2MM, H10 CH75442V111		3
CON0010022	CONN. M. V. PTH, 1 FILE, 6 V. 3,96MM, B6P-VH-K, JST		1
DIX0006000	DIODO DOPPIO SMD DA204KT146		9
DIX0006003	DIODO SMD RLS-4148		5
FER0010078	CUSNP AWG SPRING		2
QUA0006006	X-CRYSTAL SMD HCM49 33MHZ		1
QUA0010000	X-CRYSTAL SMD HCM49 12MHZ		1
TRS0002004	TRANSISTOR NPN 2SD2114KT		1
TRS0002006	REG.+5V 0.5° BA178M05FP		1
TRS0002007	REG.+3.3V 0.5A BA033FP		1
TRS0010000	LINEAR REG. -12V, 0,5A, NJM79M12, TO252		1
TRS0010001	LINEAR REG. 12V, 0,5A, 78M12, TO252		1
TRS0010002	LINEAR REG. 1,2V, 0,8A, LD1117S12, SOT223		1
TRS0010004	LINEAR REG. ADJ, 3A, LM1085ISX-ADJ, D2PACK		1

## PART LIST KEYBOARD INTERFACE GRA1002105

CODE	DESCRIPTION	REFERENCE	Q.TY
CIN0002012	CIRC.INT.TC74HC138 AFN SMD		3
CIN0002056	IC.SW/LED/KBD SCAN. (NKS3,5)HD6433394A35F(S)		1
CIN0010009	OPAMP. R.TO R. 2CH LMC662CM SOP8		1
CON0001048	MALE CONN. 4 V. P.2.54		1
CON0001076	CONN.BLK PICO FLEX 16 VIE 1.27		1
CON0001077	CONN.BLK PICO FLEX 20 VIE 1.27		1
CON0010001	CON. M. V. PTH, 2 F., 10 V., 1.27MM, 90325-0010		1
QUA0006004	X-CRYSTAL SMD HCM49 16MHZ		1
TRX0005002	TRIMMER ORIZ.P5MM 470K		1

# Pa2Xpro PART LIST

## PART LIST MP3 INTERFACE GRA0002109

CODE	DESCRIPTION	REFERENCE	Q.TY
CIN0004005	RES.GEN.3,3V ETC811SUC		1
CIN0010037	SDRAM, 64MBIT, 16BIT, K4S641632K-UC75, SSOP54		1
CIN0010043	1 OF 2 DEMUX SN74LVC1G18DCKR		1
CIN0010044	TRIPLE N.INV. SCHMITT TRIG SN74LVC3G17DCTR		2
CIN0010046	DSP TI TMS320C6726BRFP266 HTQFP		1
CIN0010047	DC-DC CONV. ADJ 1,2A TPS62040DGQ		1
CON0010057	CON. M. V. SMD 2FILE 16V. 1.27MM MICS/SMD 16 RP		1
QUA0006005	X-CRYSTAL SMD HCM49 24.576MHZ		1
TRS0002011	REG.+3.3V 1 A BA033FP		1

## PART LIST HD INTERFACE GRA0002120

CODE	DESCRIPTION	REFERENCE	Q.TY
CIN0004005	RES.GEN.3,3V ETC811SUC		1
CIN0010020	CIRC. INTERF. USB TO ATA, TUSB6250, TI, TQFP80		1
CIN0010023	EEPROM, 256KBIT, 8BIT, 24LC256I/SNG, SO8		1
CON0001102	CONN. 44 PIN FOR HD I/F HRS A3E-44PA-2DSA		1
CON0010012	MALE CONN. PTH, 1 FILE, 7 V, 2,5MM, S7BEH, JST		1
QUA0010001	X-CRYSTAL SMD HCM49, 24MHZ, ARMONICA 1,		1
TRS0002001	TRANSISTOR NPN DTC114EKA SMD		1
TRS0002011	REG.+3.3V 1 A BA033FP		1

## PART LIST LEFT PANEL BOARD GRA0002130

CODE	DESCRIPTION	REFERENCE	Q.TY
ALT0001030	BUZZER PIEZO MURATA PKM17EPP-2002-B0		1
BAT0001001	BATTERY 3V 220MA CR2032		1
CIN0002012	I.C. TC74HC138 AFN SMD		2
CIN0010002	PSOC UC CYPRESS CY8C24423A-24SXI SOP28		1
CIN0010014	LOGIC CIRCUIT NOT, CD74ACT04M, SOP14		3
CIN0010051	RTC STM M41T00SM6E/DS1340-33+		1
CON0001076	CONN. BLK PICO FLEX 16 VIE 1.27		1
CON0001087	MALE CONN.6 VIE PH20W6R ORIZ.		1
CON0010065	CONN. M. VER. PTH, 2 FILE, 6 V, 1.27MM MICS 06		1
CON0010064	CONN. SOCKET BATTERY CR2032 LT100-10		1
DIX0006003	SMD DIODE RLS-4148		1
DIX0010004	DIODE ARRAY BAS16S/BAS16TW-MMBD4148TW		15
INT0001008	TACT SWITCH		41
LED0001004	DIODO LED BLUE 3MM PA1XPRO	Update 17-04-2008*	47
LED0005004	DIODO LED BICOLOR 3MM RED/GREE ALTA EFF.		1
POT0001004	LINEAR POTENTIOMETER 10KB PAR.POL		11
QUA0006012	X-CRYSTAL SMD 32.768KHZ SMD PKG CM200S		1
TRS0002002	TRANSISTOR PNP DTA114EKA SMD		1

# Pa2Xpro PART LIST

## PART LIST RIGHT PANEL BOARD GRA0002131

CODE	DESCRIPTION	REFERENCE	Q.TY
CIN0002012	CIRC.INT.TC74HC138 AFN SMD		2
CIN0010002	PSOC UC CYPRESS CY8C24423A-24SXI SOP28		1
CIN0010014	CIRCUITO LOGICO NOT, CD74ACT04M, SOP14		3
CON0001076	CONN.BLK PICO FLEX 16 VIE 1.27		1
CON0001072	CON.MASCHIO 6 VIE PH20W ITE		1
CON0010000	CONN. M. V. PTH, 2 FILE, 8 V, 1.27MM		1
CON0010016	CONN. M. V. PTH, 1 FILE, 3 V, 2.5MM, B3B-EH-A, JST		1
CON0010065	CONN. M. VER. PTH, 2 FILE, 6 VIE, 1.27MM MICS 06		1
DIX0006003	SMD DIODE RLS-4148		1
DIX0010004	DIODE ARRAY BAS16S/BAS16TW-MMBD4148TW		16
INT0001008	TACT SWITCH		46
LED0001004	LED DIODE BLUE 3MM PA1XPRO	Update 17-04-2008*	26
LED0005004	LED DIODE BICOLOR 3MM RED/GREE ALTA EFF.		1
POT0001004	LINEAR POTENTIOMETER 10KB PAR.POL		1
TRS0002011	REG.+3.3V 1 A BA033FP		1

## PART LIST OUTPUT BOARD GRA0002132

CODE	DESCRIPTION	REFERENCE	Q.TY
CIN0003011	CIRC.INT. NMJ4556 AM SMD		1
CIN0010048	LOWNOISE LOW DIST MIC PREAMP INA217/SSM2019		1
CIN0010049	PSOC UC CYPRESS CY8C24123A-24SXI		1
CIN0010050	OPAMP 2CH NE5532D/NJM5532M SO8		9
CON0001078	CONN.BLK PICO FLEX 26 VIE 1.27		1
CON0005013	BLACK RCA PLUG GP305520		1
CON0010015	CONN. M. V. PTH, 1 FILE, 4V, 2.5MM, B4B-EH-A, JST		1
CON0010016	CONN. M. V. PTH, 1 FILE, 3V, 2.5MM, B3B-EH-A, JST		1
CON0010058	JACK STEREO 6.3MM NRJ6HH		6
CON0010059	COMBO CONNECTOR NEUTRIK NCJ10FI-H-0		1
DIX0006003	SMD DIODE RLS-4148		2
DIX0006004	SMD DIODE SHOTTLY RB051L-40TE25		4
DIX0010005	SCHOTTKY DIODE BAV99WT1G		6
DIX0010006	ZENER DIODE, VZ=33V 500MW MMSZ5257BT1G		1
DIX0010007	ZENER DIODE, VZ=16V 500MW MMSZ5246BT1G		1
LED0001004	LED DIODE BLUE 3MM PA1XPRO		1
POT0010001	POT. ROT. 270GR.1KC X1,RK09KC1110001KC1N20AC		1
TRA0001013	TRANSF. S/PIDIF DIGITAL AUDIO PE-65612		1
TRS0002001	TRANSISTOR NPN DTC114EKA SMD		4
TRS0002002	TRANSISTOR PNP DTA114EKA SMD		5
TRS0002004	TRANSISTOR NPN 2SD2114KT		10
TRS0002008	REGOLATOR 78L05(SOT89) 100MA SMD		1
TRS0002010	J-FET N CHANEL J108 SOT23 (PMBFJ108)		4
TRS0002016	TRANSISTOR PNP SMD VCE=45, IC=0.5, BC807		1
TRS0010005	N CH. MOSFET 1.9° 30V FDN357N		2
TRS0010006	P CH. MOSFET -2° -30V FDN360P		2
TRS0010007	TR. NPN SMD 80V, 500MA, PMBTA06/MMBTA06		1
TRS0010008	TR. PNP SMD 80V, 500MA, PMBTA56/MMBTA56		1

## Pa2Xpro PART LIST

### PART LIST LCD PANEL BOARD GRA0002133

CODE	DESCRIPTION	REFERENCE	Q.TY
CON0001087	CONN.MASCH.6 VIE PH20W6R ORIZ.		1
INT0001008	TACT SWITCH		8

### PART LIST MAIN FILTER GRA0002134

CODE	DESCRIPTION	REFERENCE	Q.TY
BOB0001001	FERRITE RT25-150-120-K5B		1
BOB0005001	BOB. VK200 2,0 SPIRE		4
CON0010019	CONN. M. V. PTH, 1 FILE, 3V, 3,96MM, B3P-VH-K, JST		1
INT0001012	MAIN SWITCH SS-160-7-A		1
INT0001013	F FLAT EAR PLUG		1
PLA0001057	NYLON RING N16B RICHCO		1
RIL0001217	AWG CABLE		1
VTA0001006	SCREW 3MX14TC		1
VTA0001023	M3 SELFLOCKING NUT		1
VTA0001048	WASHER 3X9X0.8		1

### PART LIST TOUCH PANEL INTERFACE GRA0002135

CODE	DESCRIPTION	REFERENCE	Q.TY
CON0010060	CONN. F. HOR. SMD 1 FILE 4 V. 1MM 04FMS-10SP-TF		2

### PART LIST SOUND CONTROL PANEL GRA0002136

CODE	DESCRIPTION	REFERENCE	Q.TY
CON0010065	CONN. M. VER. PTH, 2 FILE, 6 V, 1.27MM MICS 06		1
INT0001008	TACT SWITCH		2

### PART LIST ROTARY ENCODER GRA0002137

CODE	DESCRIPTION	REFERENCE	Q.TY
CON0010065	CONN. M. VER. PTH, 2 FILE, 6 V, 1.27MM MICS 06		1
INT0001008	TACT SWITCH		2
INT0001015	ENCODER STEC12E07		1

### PART LIST HEADPHONE BOARD GRA0002138

CODE	DESCRIPTION	REFERENCE	Q.TY
BOB0005001	BOB. VK200 2,0 SPIRE		2
CON0010015	CONN. M. VER. PTH 1 FILE 4V 2,5MM B4B-EH-A JST		1
CON0010058	6.3MM STEREO JACK NRJ6HH		1

## Pa2Xpro PART LIST

### PART LIST MOTOR INTERFACE BOARD GRA0002139

CODE	DESCRIPTION	REFERENCE	Q.TY
CIN0002047	I.C.HEX INV 74AHC04D		1
CIN0002063	I.C.QUAD 2-IMPULS GATE.SN74AHC08 D SMD		1
CIN0010049	PSOC UC CYPRESS CY8C24123A-24SXI		1
CON0010022	CONN. M. V. PTH, 1 FILE, 6V, 3,96MM, B6P-VH-K, JST		2
CON0010035	CONN. M. V. PTH, 1 FILE, 7V, 2,5MM, B7B-EH-A, JST		1
DIX0006004	SMD DIODE SHOTTLY RB051L-40TE25		4
TRS0010009	COMP. P/N MOSFET 30V/-30V 7°/-5° KMB7D0NP30QA		2

### PART LIST LCD INTERFACE GRA0002140

CODE	DESCRIPTION	REFERENCE	Q.TY
BOB0005001	BOBINA VK200 2,0 SPIRE		1
CIN0001004	INT.LMC662CN OP.RAIL TR.		1
CON0001078	CONN.BLK PICO FLEX 26 VIE 1.27		1
CON0001099	CONN. HOR. FFC 16V 1MM (52043-1610)		1
CON0001100	CONN. HOR. FFC 4V 1MM (52043-0410)		1
CON0010066	CONN. HOR. PTH 1F 4V 2.5MM JAE IL-G4P-S3L2-SA		1
TRA0005001	LCD INVERTER DC-AC 4,5W 10°		1

### PART LIST MOTOR HARNESS BOARD GRA0002141

CODE	DESCRIPTION	REFERENCE	Q.TY
CON0010014	CONN. M. OR. PTH, 1 FILE, 3 V, 2,5MM, S3BEH, JST		1
FDD0010003	MOTORE QJT-370-AH, 6V, 6150RPM		1

### PART LIST LCD HARNESS BOARD GRA0002142

CODE	DESCRIPTION	REFERENCE	Q.TY
CON0010011	MALE CONN. HOR. PTH 1 FILE 4V 2,5MM S4BEH JST		1
POT0010002	POT.ROT.OR.10KBX 1, RV110-F-40E1-175A-B10K		1

### PART LIST FRONT USB CONNECTOR BOARD GRA1002114

CODE	DESCRIPTION	REFERENCE	Q.TY
CON0010009	PRESA USB TYPE A,		1
CON0010018	MALE CONN. HOR. PTH 1 FILE 5V 2,5MM S5BEH JST		1
RIL0001165	CONNESSIONE MASSA L=100 CUFFIA EC120-320		1

# Pa2Xpro PART LIST

## PART LIST HARNESSSES

CODE	DESCRIPTION	REFERENCE	Q.TY
CAV0010001	FLAT CABLE HDD IF OPT0001008	LC	1
CAV0010027	FLAT CABLE MB/OUT BOARD	LC GRF	1
CAV0010028	FLAT CABLE MB/RX PANEL	D2 UC1 GRF	1
CAV0010029	FLAT CABLE RX/LX PANEL	UC1	1
CAV0010030	FLAT CABLE MB/VIDEO BOARD	LC GRF	1
CAV0010031	FLAT CABLE CPU/LCD IF	D2 LC	1
CAV0010032	FLAT CABLE RX PANEL/DIAL	DG	1
CAV0010033	FLAT CABLE LX PANEL/SOUND CTRL BOARD	UC1	1
CAV0010034	FLAT CABLE MB/KEYBOARD IF	KG	1
CAV0010035	FLAT CABLE KEYB IF/KEYB LOWER	KG	1
CAV0010036	FLAT CABLE KEYB IF/KEYB UPPER	KG	1
CAV0010037	HARNESS MB/HDD IF	LC	1
CAV0010038	HARNESS MB/FRONT USB	D2 UC1	1
CAV0010039	HARNESS MOTOR IF/MB	LC	1
CAV0010041	HARNESS SPDIF	LC GRF	1
CAV0010042	HARNESS HEADPHONE	LC	1
CAV0010043	HARNESS RX PANEL/LCD PANEL	LCD	1
CAV0010044	FCC CAB. 4VIE, 1MM KONTEK GK0200-04223-4CCFF	LCD	1
CAV0010045	HARNESS MOTOR/POT/SWITCH	UC1	1
CAV0010046	FLAT CABLE MB/MP3 BOARD	LC	1
RIL0001040	MAIN CABLE		1
RIL0001066	AWG HARNESS L 130 EC100 -PA80-PA60	KG	1
RIL0001281	HARNESS JOYSTICK	UC1	1
RIL0010012	HARNESS PRIMARY	LC MG	1
RIL0010016	HARNESS SUPPLY/AMPLIF	LC	1

## PART LIST HARNESS SUPPLY/AMPLIF RIL0010016

CODE	DESCRIPTION	REFERENCE	Q.TY
BOB0001001	FERRITE RT25-150-120-K5B		1
PLA0001062	FASCETTA PICCOLA FCV-100 PAN TY		1



# Pa2Xpro PART LIST

## PART LIST PLASTIC COMPONENTS

CODE	DESCRIPTION	REFERENCE	Q.TY
PLA0001046	SMALL CABLE TIE	LC UC1 KG	8
PLA0001047	BIG CABLE TIE	LC UC1 LCD	11
PLA0001062	CABLE HOLDER PAN-TY	LC	1
PLA0001094	CST SPACER 6MM SRS4-04-01	KG	2
PLA0001110	MUSIC REST SUPPORT	LC	2
PLA0001130	FLAT CABLE HOLDER CFCC-8-04°	LC	1
PLA0001132	DISPLAY BUTTONS	LCD	1
PLA0001133	DIAL SUPPORT	UC2	1
PLA0001134	UP BUTTON	UC2	1
PLA0001135	DOWN BUTTON	UC2	1
PLA0001136	DIAL KNOB	D2	1
PLA0001137	BUTTON SUPPORT 17MM	UC2	59
PLA0001138	BUTTONM SUPPORT 19MM	UC2	27
PLA0001139	BUTTON 17MM WITH LED	UC2	18
PLA0001140	BUTTON 17MM WITHOUT LED	UC2	16
PLA0001141	BUTTON 19MM WITH LED	UC2	15
PLA0001142	BUTTON 19MM WITHOUT LED	UC2	7
PLA0001143	SPACER 4.2 X 3.7 X 8 X 2.6	UC2	20
PLA0001144	LED PROTECTION	UC2	13
PLA0001146	SLIDER KNOB	D2	10
PLA0001147	SLIDER FRAME 30MM	UC2	12
PLA0001148	RED BUTTON 19MM WITH LED	UC2	1
PLA0001157	MAIN SWITCH	LC MG	1
PLA0001163	RUBBER FEET Ø20 H10	LC	5
PLA0010035	BUTTON 17MM WITH LED ( NOVODUR 700700)	UC2	24
PLA0010036	BUTTON 17MM WITHOUT LED (NOVODUR 700700)	UC2	3
PLA0010037	BUTTON 19MM WITH LED (NOVODUR 700700)	UC2	4
PLA0010039	SLIDER KNOB ( NOVODUR 700700)	D2	2
PLA0010065	MOTOR CONTROL BUTTON	UC2	1
PLA0010066	MOTOR UNLOCK BUTTON	LCD	1
PLA0010067	ENDLESS SCREW RACK	LCD	1
PLA0010068	DISPLAY RACK	LCD	2
PLA0010069	RACK	LCD	1
PLA0010070	DISPLAY POTENTIOMETER RACK	LCD	1
PLA0010073	ENDLESS SCREW SUPPORT	LCD	1
PLA0010075	SHAFT SUPPORT	LCD	3
PLA0010076	SQUARE BELT PINION	LCD	1
PLA0010077	SQUARE BELT PULLEY	LCD	1
PLA0010078	ENDLESS SCREW REAR SUPPORT	LCD	1
PLA0010079	SQUARE BELT 2X2 D.42 COD. 9000420	LCD	1
PLA0010081	ROUGH DISPLAY COVER	LCD	1
PLA0010082	ROUGH DUSPLAY SUPPORT	LCD	1
PLA0010083	ROUGH USB FRAME	UC1	1
PLA0010084	VIDEO OUTPUT PLUG	LC	1
PLAL001009	JOYSTICK SUPPORT	UC1	1
PLAL001012	DISPLAY PANEL	LCD	1

# Pa2Xpro PART LIST

## PART LIST METAL COMPONENTS

CODE	DESCRIPTION	REFERENCE	Q.TY
FER0001157	DIAL SUPPORT	MG	1
FER0001162	HINGE + FIXING PROFILE	UC1	4
FER0001188	HDD SUPPORT	HDD	2
FER0010087	MAIN FILTER SUPPORT	MG	1
FER0010088	SIDE SUPPORT	RLS	2
FER0010091	RIGHT WOODEN PANEL SUPPORT	UC1	1
FER0010092	LEFT WOODEN PANEL SUPPORT	UC1	1
FER0010093	PANEL BOARD SUPPORT	UC1	1
FER0010095	DISPLAY MOTOR SUPPORT	LCD	1
FER0010096	DISPLAY MOTOR UNLOCKER CONTROL	LCD	1
FER0010097	DISPLAY FULCRUM	LCD	2
FER0010098	GEAR SHAFT	LCD	1
FER0010099	MOTOR SUPPORT FULCRUM	LCD	1
FER0010103	ENDLESS SCREW	LCD	1
FER0010104	MOTOR LEVER BUSH	LCD	1
FER0010105	CENTRAL PANEL SUPPORT	UC1	1
FER0010113	MOTOR SUPPORT PROFILE	LCD	1
FER0010114	MUSIC REST		1
FER0010116	BELT FLANGE	LCD	1
FER0010117	MUSIC REST L-PROFILE	D2	2
FER0010118	DISPLAY GROUP REINFORCING PLATE	UC1	1
FER0010121	DISPLAY SUPPORT PROFILE	LCD	1
FERL001049	RIGHT METAL SIDE	RLS	1
FERL001050	LEFT METAL SIDE	RLS	1
FERL001051	ALUMINIUM CONTROL PANEL	UC2	1
FERL001052	LOWER CASE	LC	1
FERL001053	MEMORY OPTION COVER	LC	1
FERL001054	VIDEO BOARD SUPPORT	LC	1

# Pa2Xpro PART LIST

## OTHER COMPONENTS

CODE	DESCRIPTION	REFERENCE	Q.TY
FEL0001029	ADHESIVE TAPE ART.389 3M 18MMX50	LC LCD	0,15
FEL0001040	ADHESIVE SPIK 5X10X30	LCD	1
FEL0001052	ADHESIVE FELT 16X40X1	DG LC	3
FEL0001056	DOUB.SIDE AD. TAPE 3M 969 BUFF.12MMX33M	LCD RLS	0,5
FEL0001059	HEADPHONE ADHESIVE LABEL	LC	1
FEL0010014	ADHESIVE FELT 15X20X1	UC1 LCD	2
FEL0010043	LCD PVC PANEL	LCD	1
FEL0010044	DOUBLE SIDE ADHESIVE TAPE 30MM 1MM	LCD	0,012
FEL0010046	DISPLAY CABLE PROTECTION	LCD	1
FEL001007	DOUBLE SIDE DIE-CUTTED ADHESIVE TAPE	LCD	2
FEL001008	SERIAL NUMBER LABEL	D1 LC	1
FEL001009	SERIAL NUMBER BOX LABEL	LC	1
IMB0001196	MUSIC REST CARDBOARD SHEET		1
IMB0010028	CARDBOARD BOX		1
IMB0010029	LEFT CUSHION		1
IMB0010030	RIGHT CUSHION		1
IMB0010031	REAR CREASED CARDBOARD SHEET		1
IMB0010032	CENTRAL CUSHION		1
IMB0010033	REAR CARDBOARD SHEET		1
JOY0001000	JOYSTICK SILVER	UC1	1
LCD0001004	DISPLAY	LCD	1
LEG0010051	LEFT WOODEN SIDE	UC1	1
LEG0010052	RIGHT WOODEN SIDE	UC1	1
MAN0010019	ENGLISH USER MANUAL		1
MSD0001004	CD O.S, DRIVER USB, DOC.		1
FDD0001021	HARD DISK 2.5 (FROM 15 GB TO 40 GB)	HDD	1
TAS0001020	FATAR KEYBOARD TP8+AFTER TOUCH+DIES.	KG	1
TRA0004001	SWITCHING POWER SUPPLY PT65C X8960	LC	1

## PART LIST DISPLAY LCD0001004

CODE	DESCRIPTION	REFERENCE	Q.TY
LCD0001003	LCD 320X240 STN NANYA		1
TCP0010000	TOUCH PANEL PANASONIC EMU601A2MA32		1
FEL0010042	BIADESIVO FUST LCD 3M ART. 468MP		1

# Pa2Xpro PART LIST

## PART LIST SCREWS

CODE	DESCRIPTION	REFERENCE	Q.TY
VTA0001010	SCREW 3X16TFR HILO ZINC. BIANCA	LCD	6
VTA0001011	GROVER Ø4	LC	2
VTA0001014	WASHER 4X12X1,2	UC1	2
VTA0001016	SCREW 3X20 TC PR	KG	2
VTA0001020	GROVER Ø3	LCD	1
VTA0001023	M3 SELFLOCKING NUT	LC HDD MG	8
VTA0001025	SCREW 2.9X6.5 TC SELFTHREADING	LCD	2
VTA0001031	SCREW 3MX6 TC	UC1 DG LC LCD	34
VTA0001032	SCREW 3MX8 TC	LC	4
VTA0001037	SCREW 2,9X6,5TC SELFTHREADING SP	KG UC1 DG LC LCD	29
VTA0001039	SCREW 2.9X9.5TC SELFTHREADING SP	LC UC1 LCD	27
VTA0001045	M4 SELFLOCKING NUT	LC LCD	3
VTA0001048	WASHER 3X9X0.8	LC LCD	6
VTA0001049	SCREW 2,2X6,5 TC	LCD	8
VTA0001050	SCREW M4X8 TC SELF TAPPING	LC HG RLS	8
VTA0001051	SCREW 3X13 TCPR	LC UC1	8
VTA0001067	SCREW 3.5X16 TC AGG-BZ	LC	16
VTA0001084	SCREW 3.5X9.5 TC SELFTHREADING SP	D1 UC1	56
VTA0001087	SCREW 3.5X6.5 TC SELFTHREADING SP	UC1	18
VTA0001091	SCREW 3.9X6.5 TC SELFTHREADING D.7 BZ	UC1	12
VTA0010026	SPACER RICHCO HTSB-M4-15-6-1	HG	2
VTA0010029	SCREW M4X14 TFR	LCD	1
VTA0010035	MOTOR SPRING	LCD	1
VTA0010036	PARALLEL Ø2.5X12	LCD	3
VTA0010038	SCREW M4X14 TSP HEXAGONAL	D2 UC1	8
VTA0010039	SCREW M4X20 TSP HEXAGONAL	UC1	4
VTA0010040	SCREW M3X4 TC	LCD	2
VTA0010041	ELASTIC RING E C60 Ø10 UNI 7435.	LCD	1

If it would be necessary to change or repair the LEFT PANEL BOARD PA2X PRO (GRA0002130) or the RIGHT PANEL BOARD PA2X PRO (GRA0002131), please check the serial number of the instrument and find the right WebTeam component code you're looking for from the following chart:

PA2X PRO		PART NUMBER FOR WEBTEAM SPARE PARTS ORDER		
INSTRUMENT SERIAL NUMBER	DIODE LED MANUFACTURER	DIODE LED PART #	PANEL BOARD PART #	
GRA0002130	from 3000021 ÷ to 3000039	Type LK	LED0001004_ LK	GRA0002130_ LK
	from 3000042 ÷ to 3000126	Type LT	LED0001004_ LT	GRA0002130_ LT
	from 3000127 ÷ to 3002755	Type LK	LED0001004_ LK	GRA0002130_ LK
	from 3002756 ÷ to 3003xxx	Type LT	LED0001004_ LT	GRA0002130_ LT
	from 6001042 ÷ to 6002542	Type LK	LED0001004_ LK	GRA0002130_ LK
GRA0002131	from 3000021 ÷ to 3000039	Type LK	LED0001004_ LK	GRA0002131_ LK
	from 3000042 ÷ to 3000126	Type LT	LED0001004_ LT	GRA0002131_ LT
	from 3000127 ÷ to 3002755	Type LK	LED0001004_ LK	GRA0002131_ LK
	from 3002756 ÷ to 3003xxx	Type LT	LED0001004_ LT	GRA0002131_ LT
	from 6001042 ÷ to 6002542	Type LK	LED0001004_ LK	GRA0002131_ LK

This document will be updated. Please check the "NEWS" section in the WebTeam site.  
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**Address**

KORG ITALY S.p.A.  
Via Cagiata, 85  
I-60027 Osimo (An)  
Italy

**Web servers**

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