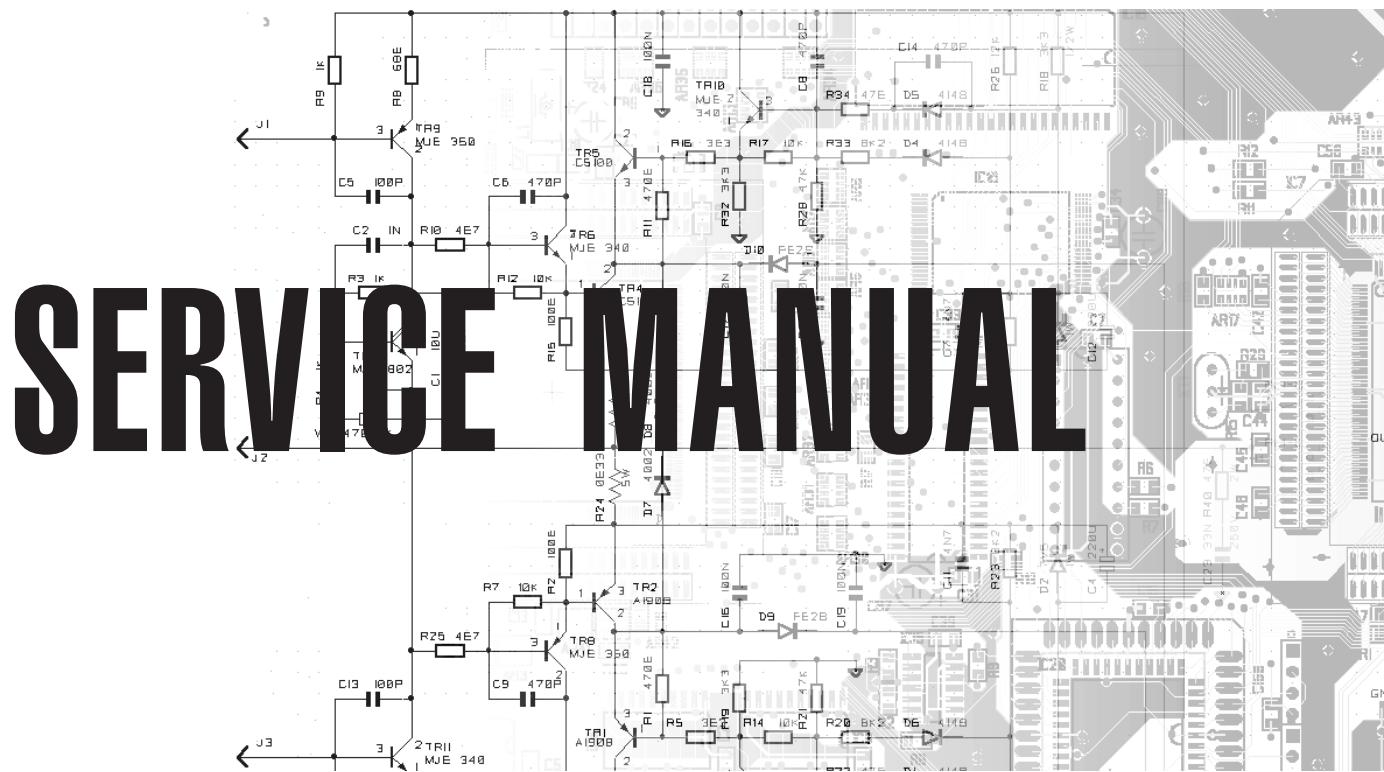


Index

- 2 Technical Specifications, Opening Instructions
- 3 Layout
- 4 Parts Assembly 1
- 5 Parts Assembly 2, Block Diagram
- 6 Power Supply, Virtual Strip, Logo Led and I/O & Phones Schematics
- 7 Power Supply, Virtual Strip, Logo Led and I/O & Phones Pcb Layouts
- 8 Controls & I/O Schematics (part 1 of 2)
- 9 Controls & I/O Schematics (part 2 of 2)
- 10 Controls & I/O Pcb Layout (part 1 of 2)
- 11 Controls & I/O Pcb Layout (part 2 of 2)
- 12 Cpu/Dsp & AD/DA Schematics (part 1 of 2)
- 13 Cpu/Dsp & AD/DA Schematics (part 2 of 2), Hybrid Mic/Line and Output Schematics
- 14 Timings, Update Procedure, Memory Reset Procedure, Potentiometers Calibration Procedure
- 15 Cpu/Dsp & AD/DA Pcb Layout
- 16 Spare Part List

FALCON

DIGITAL MIXING CONSOLE



SERVICE MANUAL



CODE: 270191

Warnings



Notice

Service must be carried out by qualified personnel only. Any tampering carried out by unqualified personnel during the guarantee period will forfeit the right to guarantee.

For a correct operation of the instrument, after having switched off, be careful to wait at least 3 seconds before switching on again.

To improve the device's specifications, the schematic diagrams may be subject to change without prior notice.

All components marked by this symbol have special safety characteristics, when replacing any of these components use only manufacturer's specified parts.

The (μ) micro symbol of capacitance value is substituted by U.

The (Ω) omega symbol of resistance value is substituted by E.

The electrolytic capacitors are 25Vdc rated voltage unless otherwise specified.

All resistors are 1/8 Ω unless otherwise specified.

All switches shown in the "OFF" position. All DC voltages measured to ground with a voltmeter 20KOhm/V.

← Soldering point.

↑ Supply voltage.

↓ Logic supply ground.

● Male connector.

□ Test point.

△ Analog supply ground.

○ Female connector.

— Flag joined with one or more flags

— Chassis ground.

— M/F faston connector.

with the same signal name inscribed.

— Earth ground.

ATTENTION

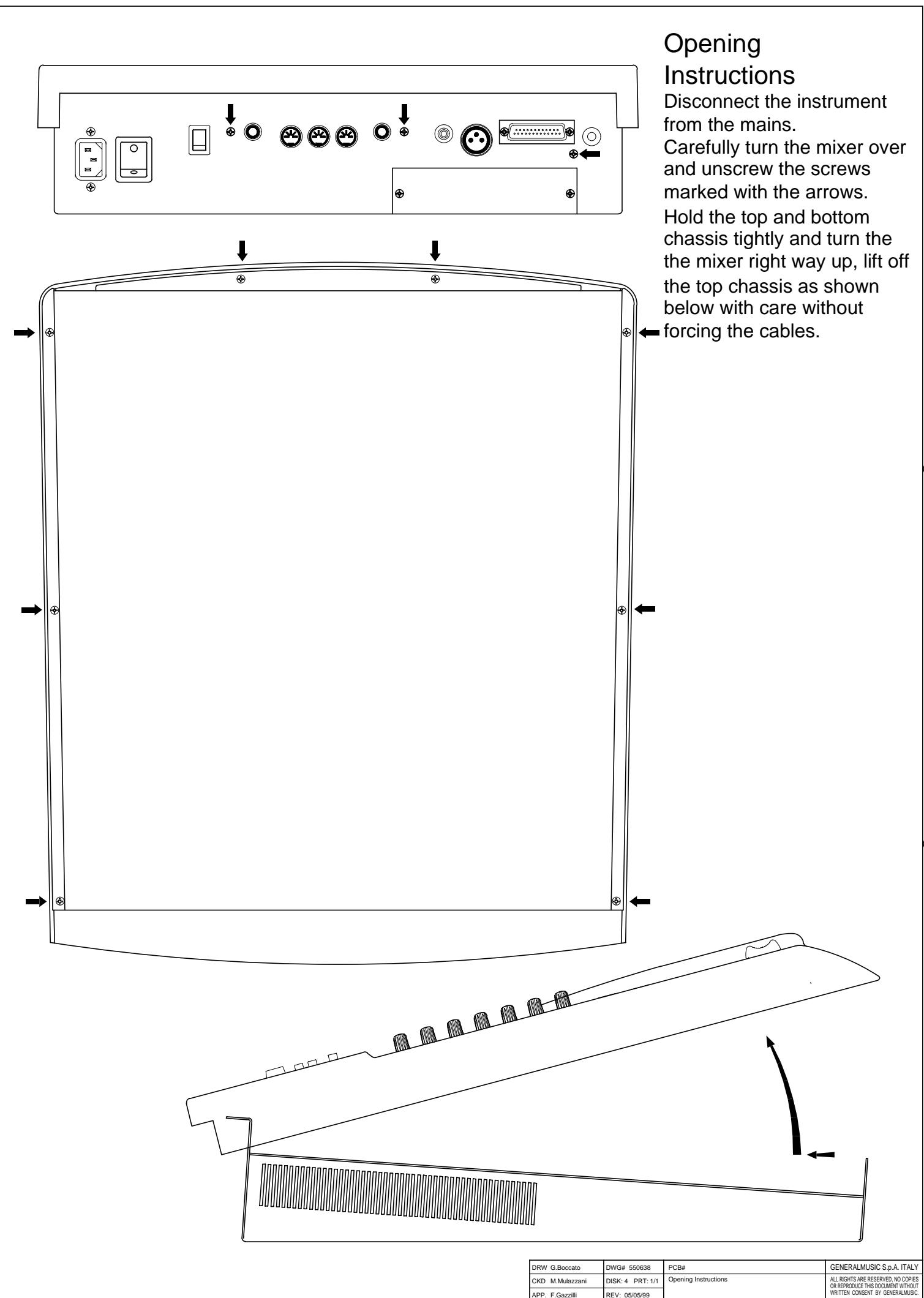
Observe precautions when handling electrostatic sensitive devices.

Address

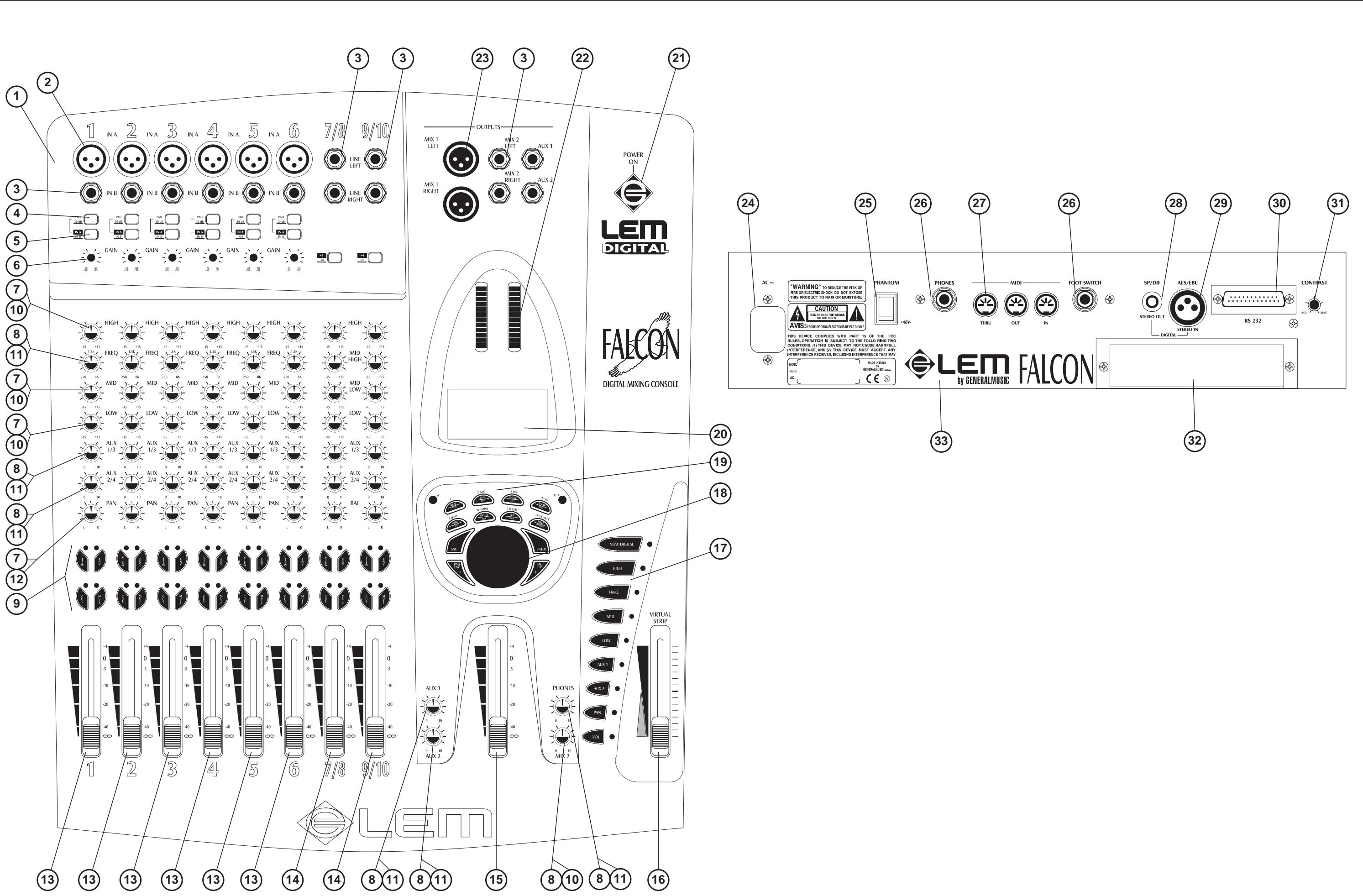
GENERALMUSIC S.p.A. Sales Division: 47842 S.Giovanni in Marignano (RN) ITALY - Via delle Rose, 12 - tel. 0541/859511 - fax 0541/857404
GENERALMUSIC on the NET: <http://www.generalmusic.com>

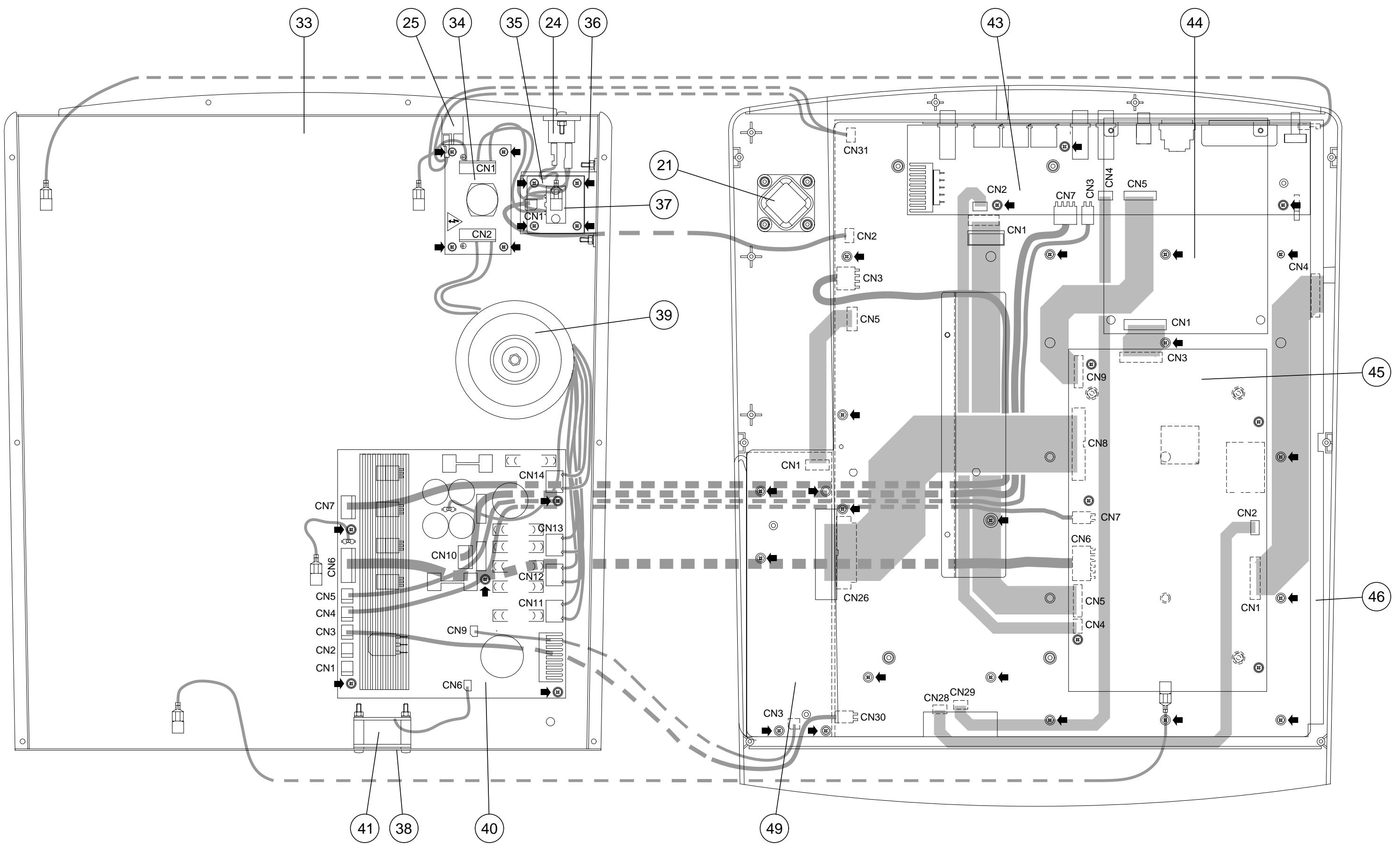
FALCON • TECHNICAL SPECIFICATIONS

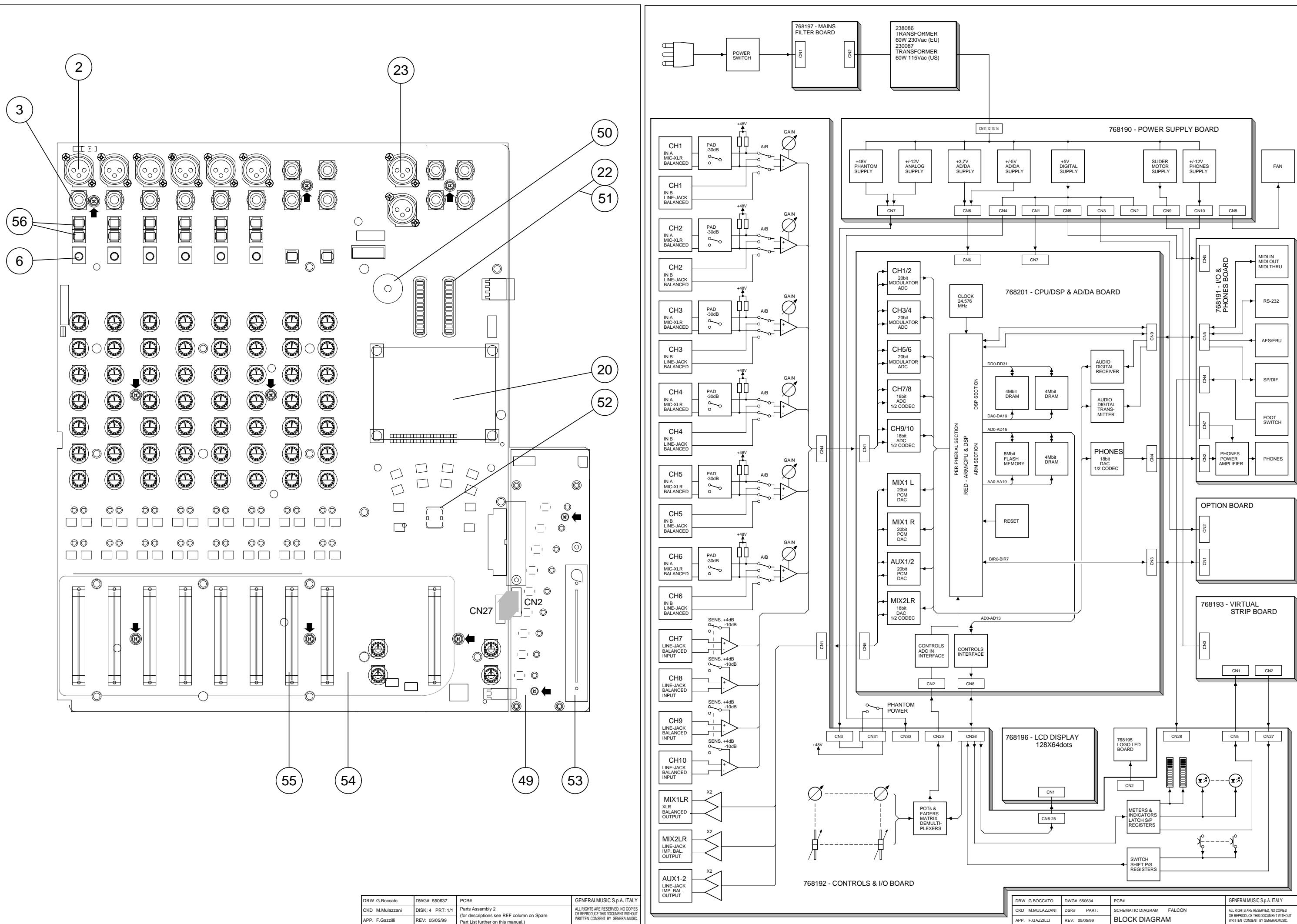
SECTION	LEVELS & DATA		CONNECTORS
MONO INPUT CHANNEL			
MIC/LINE A input	sensitivity <i>PAD</i> impedance	from -20 to -60dB 30dB 2kOhms / 10kOhms	Balanced XLR-F
LINE B input	sensitivity <i>impedance</i>	from +10 to -30dB 10kOhms	Balanced JACK
A/D converter		20 bit linear, oversampling 64 times	
EQ	HIGH MID LOW	±15dB, from 40Hz to 16kHz, from SHELVING to Q=10 ±15dB, from 250Hz to 16kHz, from Q=0.7 to Q=10 ±15dB, from 40Hz to 16kHz, from SHELVING to Q=10	
STEREO INPUT CHANNEL			
LINE input	sensitivity <i>impedance</i>	from +4 to -10dB 10kOhms	Balanced JACK
A/D converter		18 bit linear, oversampling 64 times	
EQ	HIGH HI-MID LO-MID LOW	±15dB, from 40Hz to 16kHz, from SHELVING to Q=10 ±15dB, from 40Hz to 16kHz, from SHELVING to Q=10 ±15dB, from 40Hz to 16kHz, from SHELVING to Q=10 ±15dB, from 40Hz to 16kHz, from SHELVING to Q=10	
STEREO DIGITAL INPUT			
Format		IEC958 Professional (AES/EBU)	XLR-F
Level		RS422	
MASTER SECTION			
MIX 1 outputs	D/A converter output level impedance	20 bit linear +4dB 600 Ohms	Balanced XLR-M
MIX 2 outputs	D/A converter output level impedance	18 bit linear +4dB 600 Ohms	Impedance Balanced JACK
AUX 1&2 outputs	D/A converter output level impedance	20 bit linear +4dB 600 Ohms	Impedance Balanced JACK
DIGITAL output	format output level	IEC958 Consumer (S/PDIF) 0.5Vpp/75Ohms	Phono RCA
HEADPHONES output	minimum impedance output level	32 Ohms 2W	Stereo JACK
GENERAL SPECIFICATIONS			
Sampling frequency		48kHz	
Dynamic range		117dB	
Crosstalk	adjacent input CH input to output PAN	-90dB @ 1kHz -100dB @ 1kHz -85dB @ 1kHz	
Noise	all faders closed MIX fader nominal MIX fader nominal + 1 CH	-110dB -105dB -95dB	
Total harmonic distortion (THD + Noise)		<0.03%, 20Hz - 20kHz <0.02%, 20Hz - 20kHz	
Weight	kg	5.7	
Dimensions	mm (WxHxD)	440x110x500	

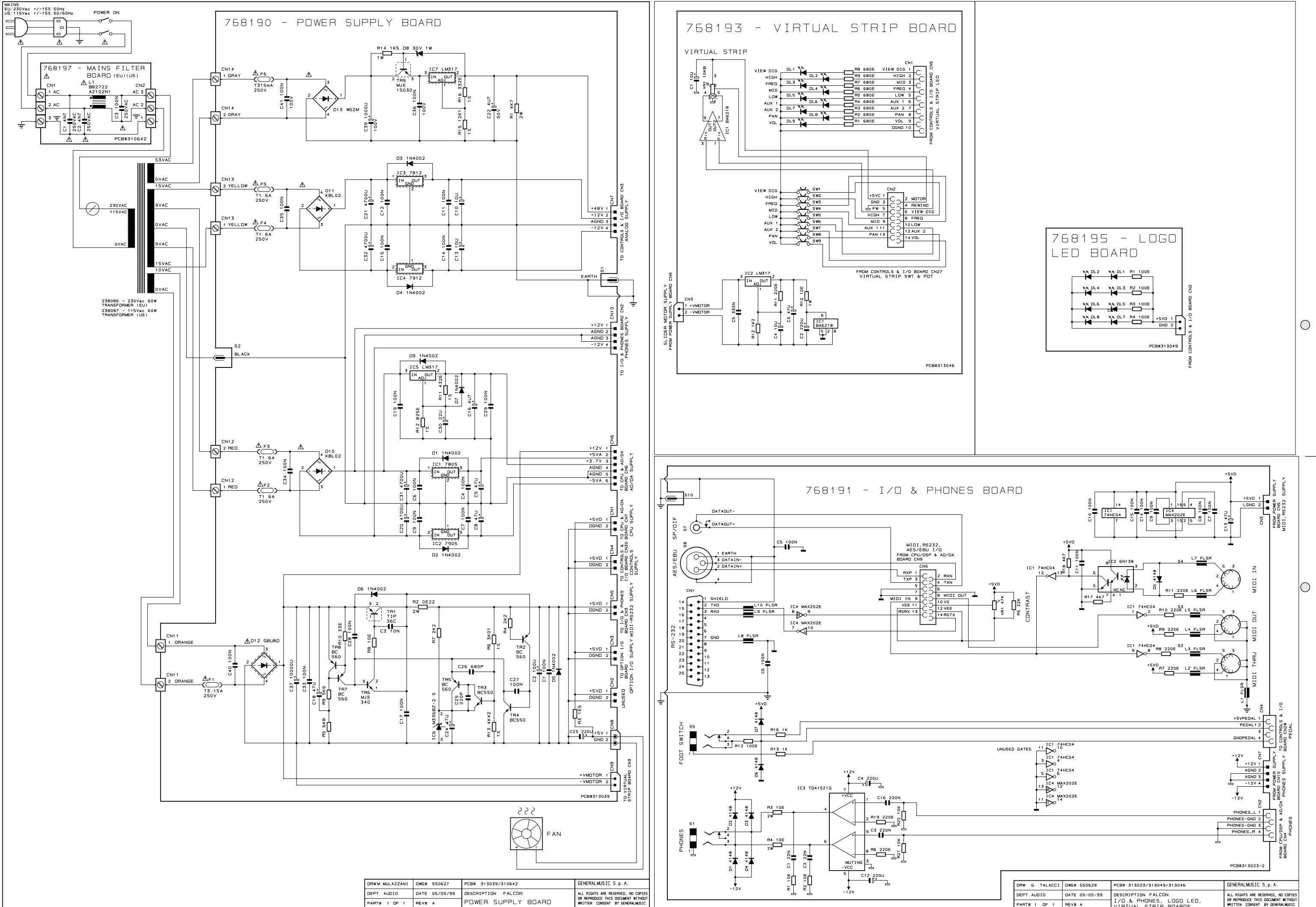


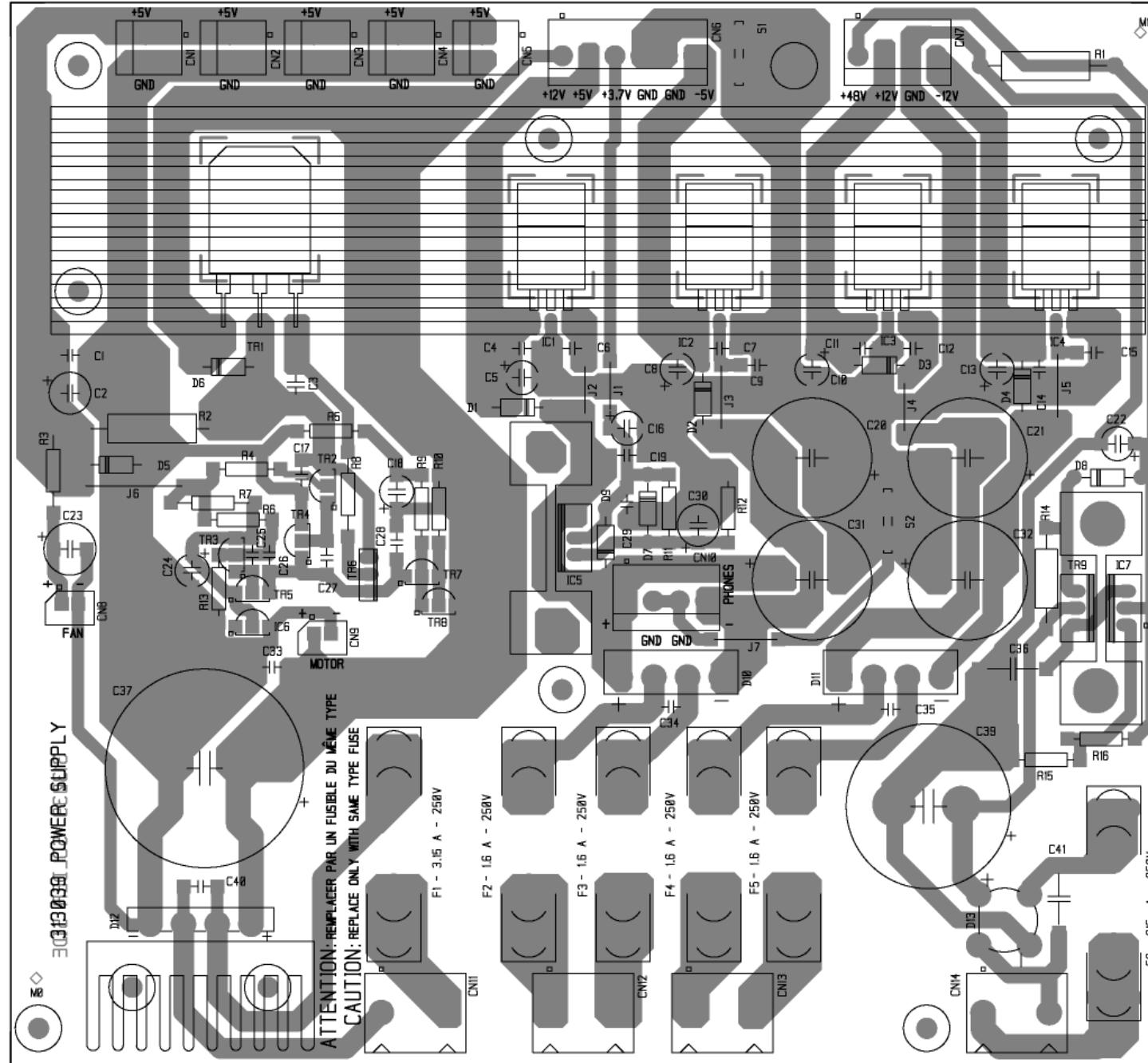
Opening Instructions
Disconnect the instrument from the mains.
Carefully turn the mixer over and unscrew the screws marked with the arrows.
Hold the top and bottom chassis tightly and turn the the mixer right way up, lift off the top chassis as shown below with care without forcing the cables.



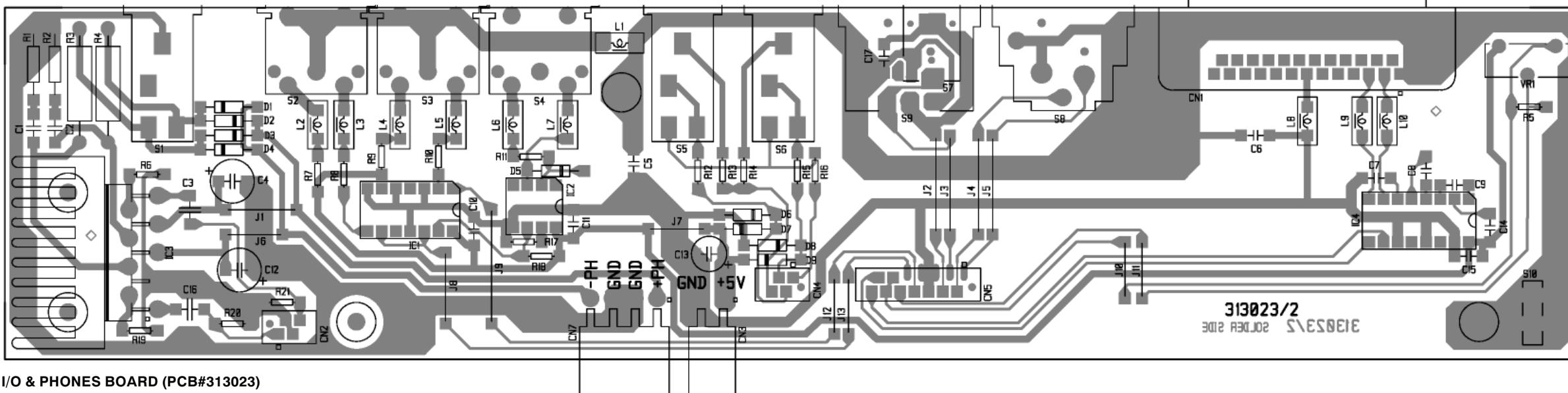




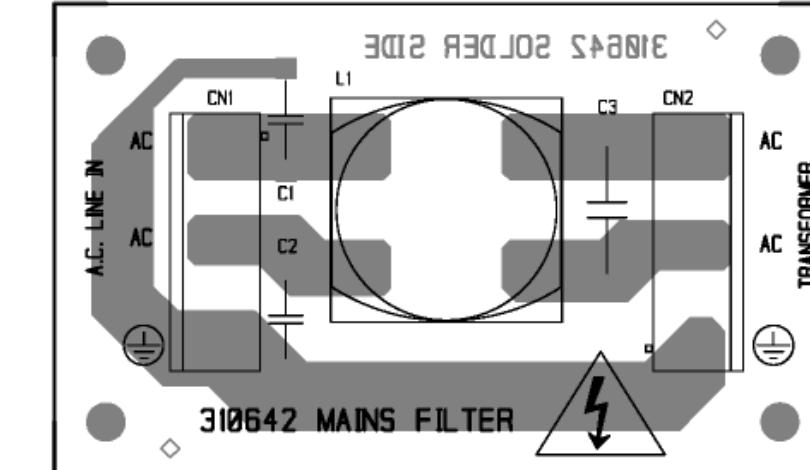




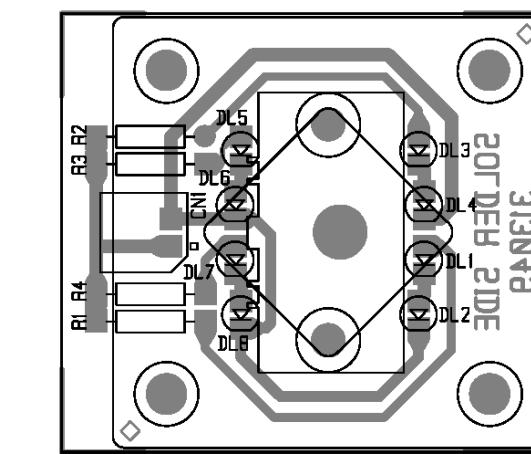
POWER SUPPLY BOARD (PCB#313039)



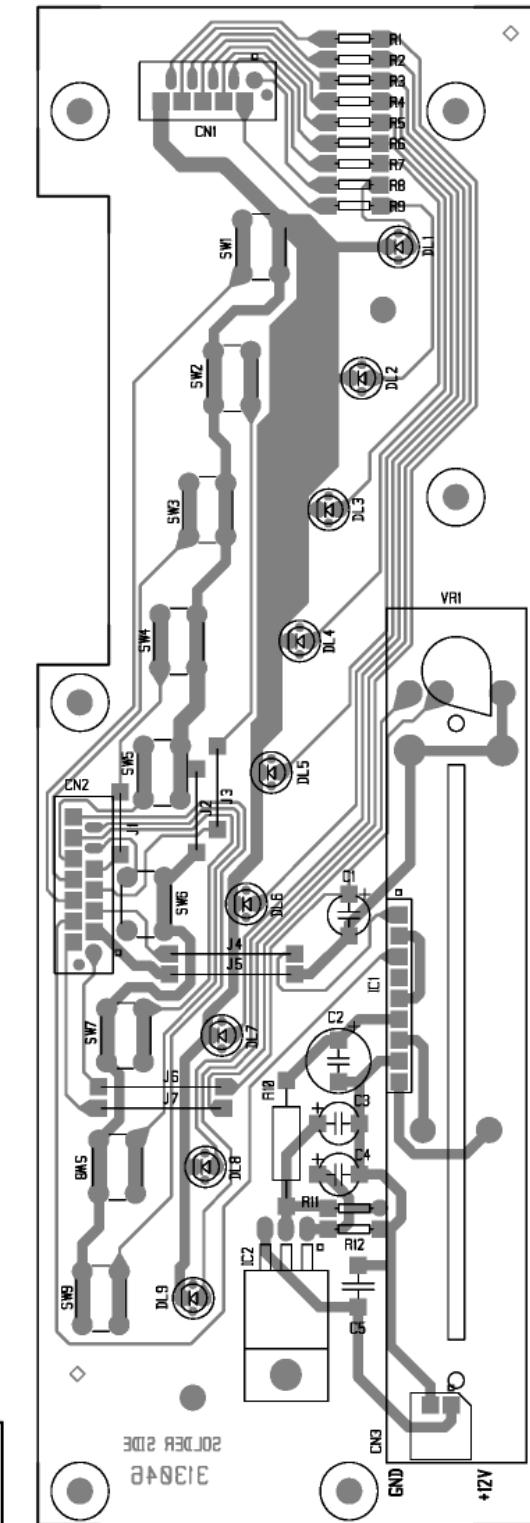
I/O & PHONES BOARD (PCB#313023)



MAIN FILTER BOARD (PCB#310642)



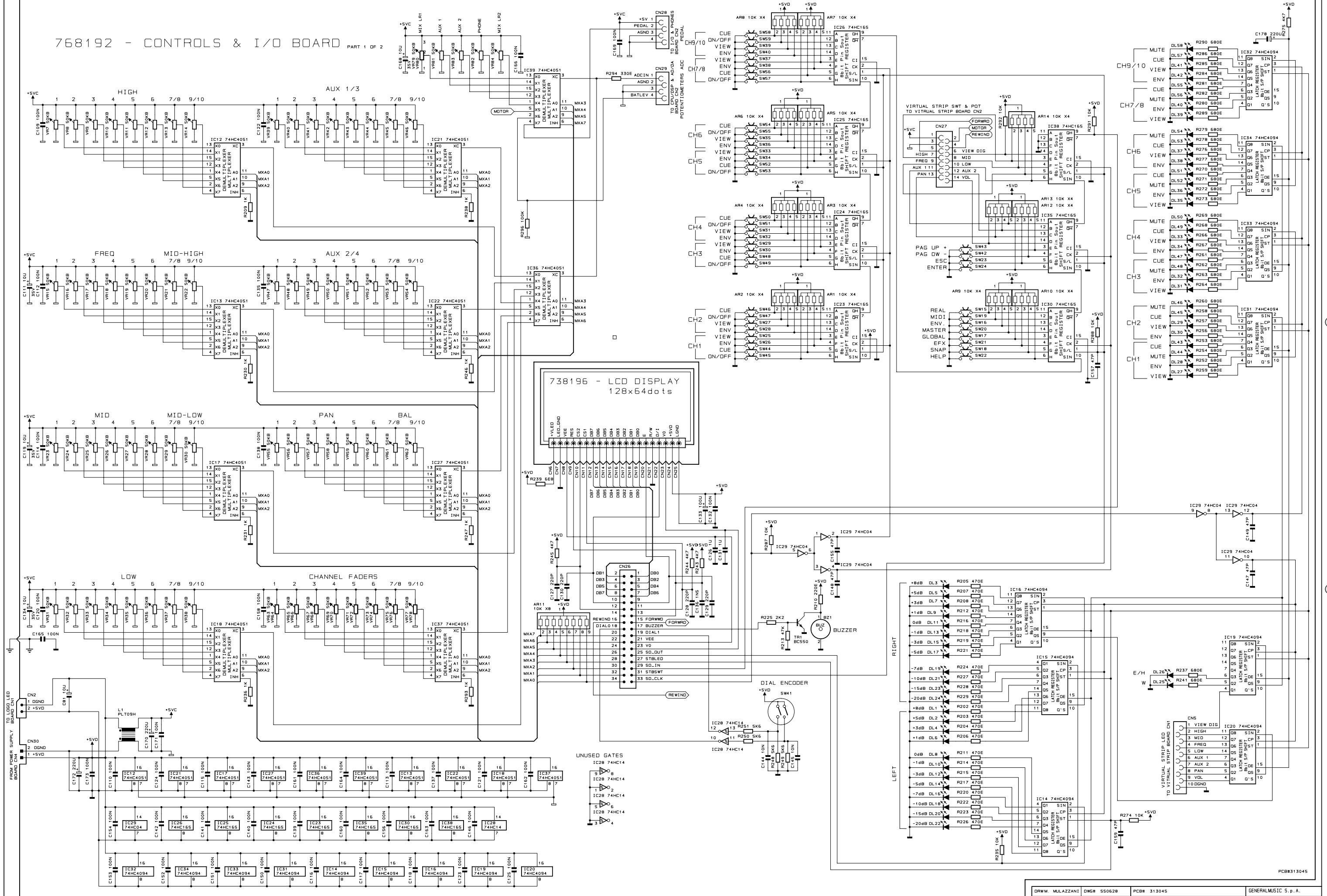
LOGO LED BOARD (PCB#313049)

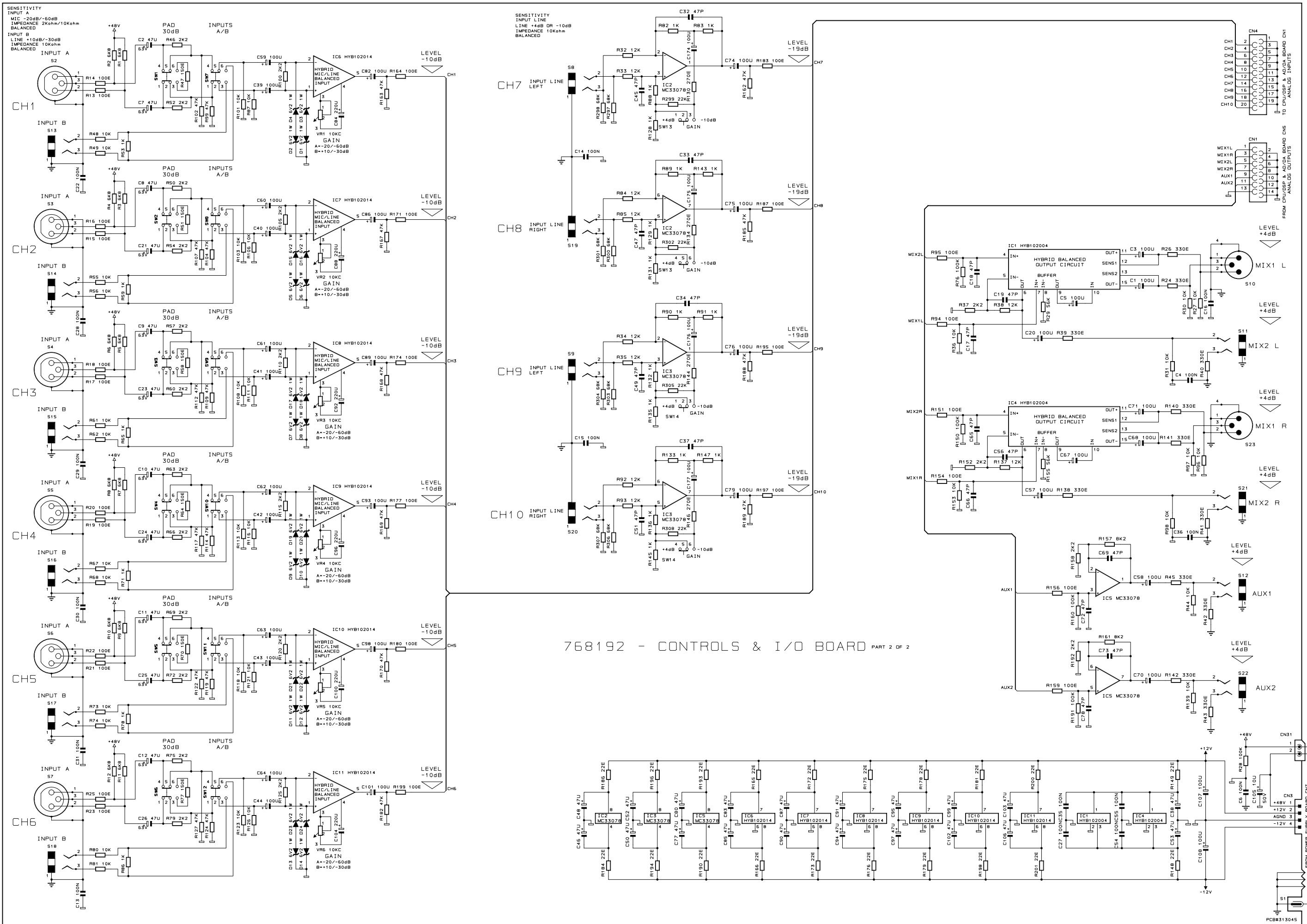


VIRTUAL STRIP BOARD (PCB#313046)

768192 - CONTROLS & I/O BOARD

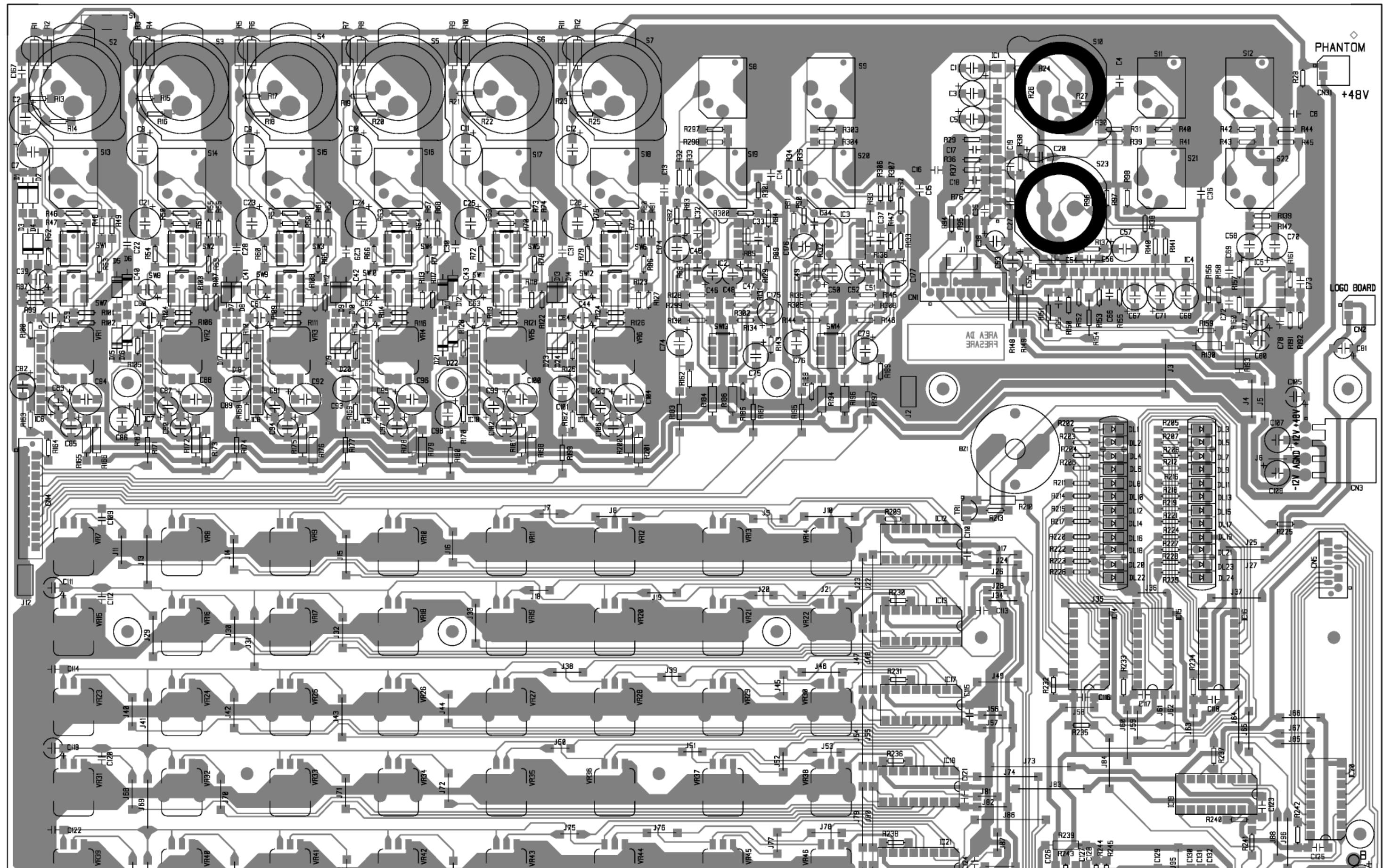
ARD





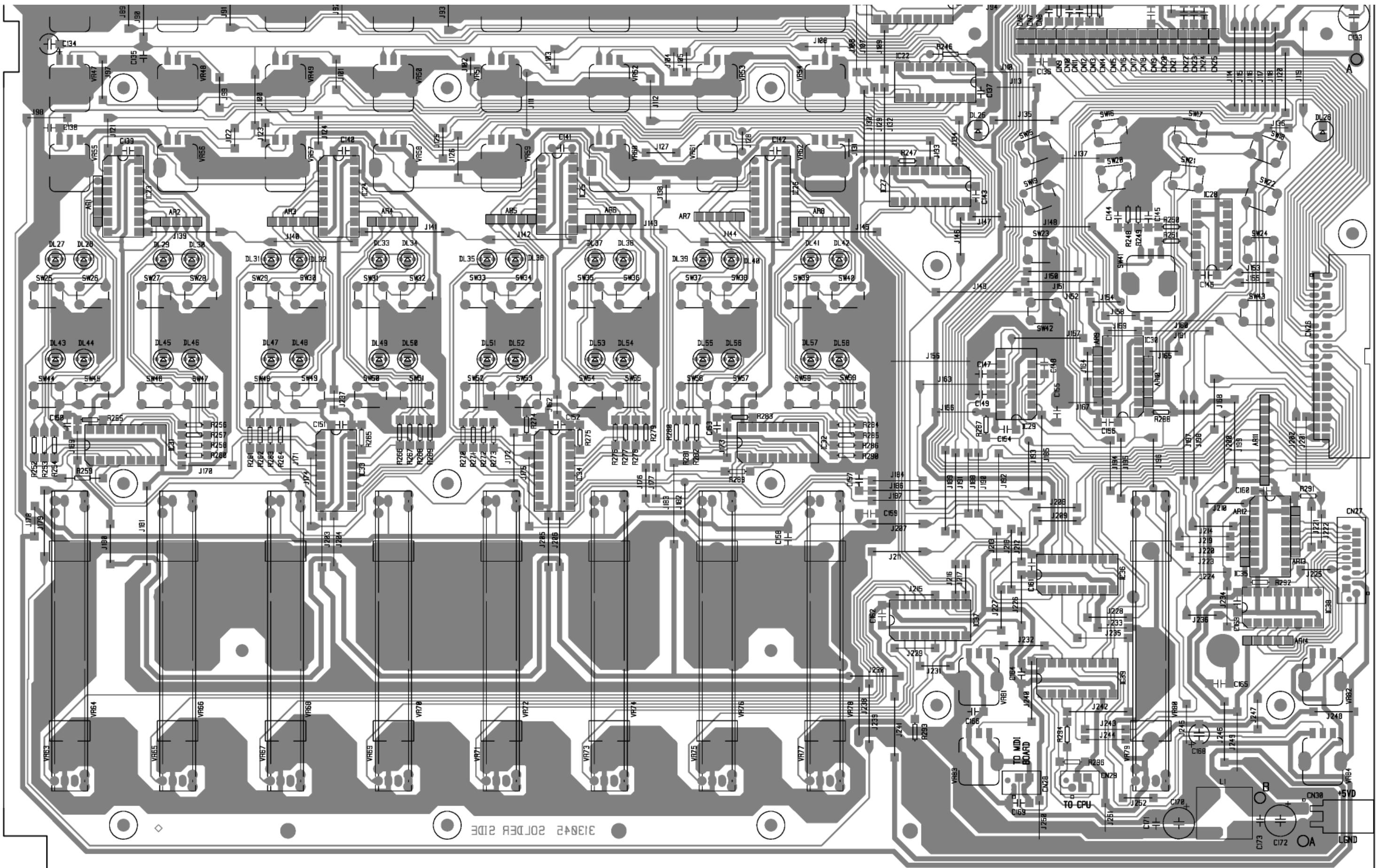
768192 - CONTROLS & I/O BOARD PART 2 OF 2

DRW MULAZZANI	DWG# 550628	PCB# 313045	GENERALMUSIC S.p.A.
DEPT. AUDIO	DATE 05-05-99	DESCRIPTION FALCON	
PART# 2 OF 1	REV# A	CONTROLS & I/O BOARD	ALL RIGHTS RESERVED. NO COPIES OR REPRODUCE THIS DOCUMENT WITHOUT WRITTEN CONSENT BY GENERALMUSIC



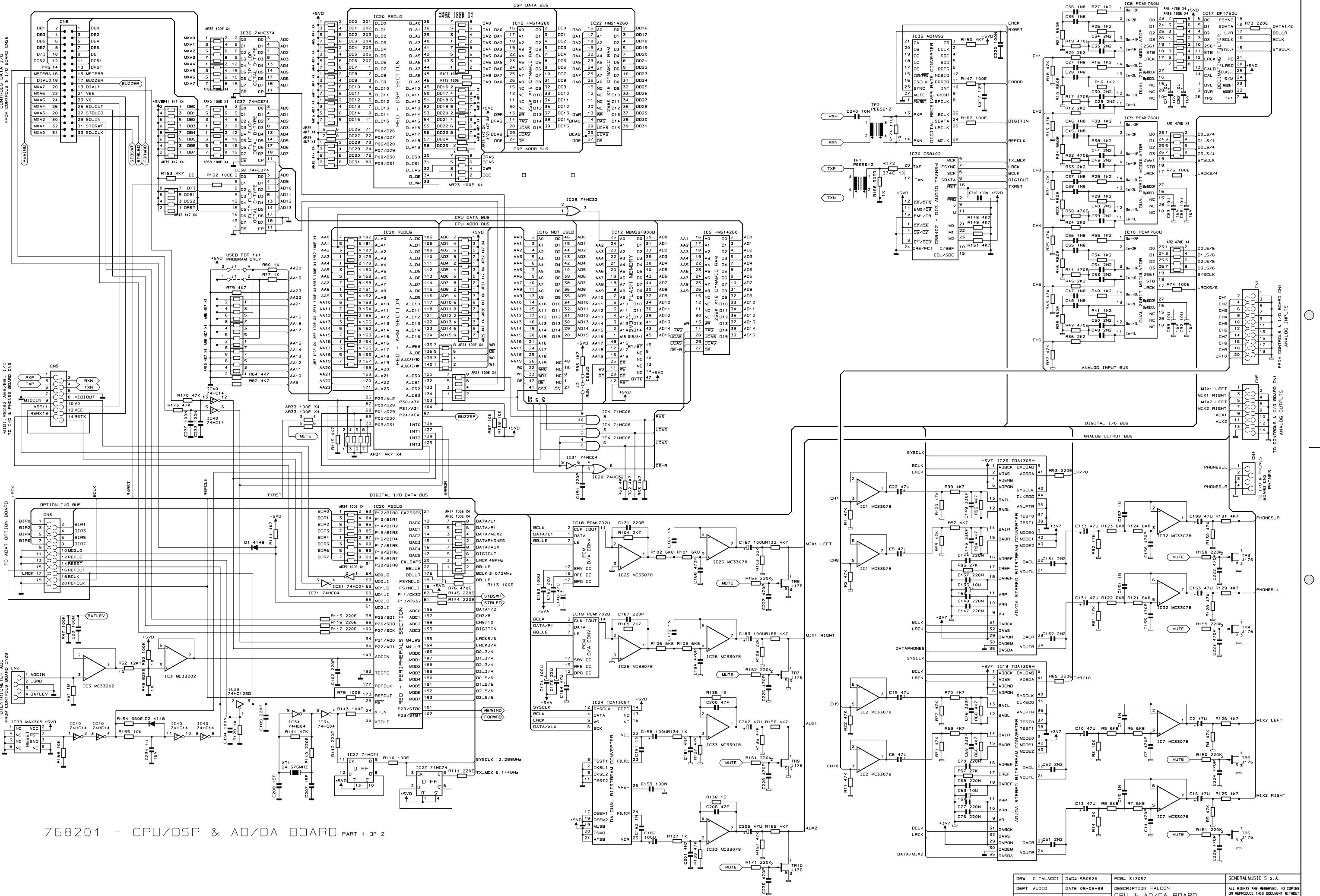
CONTROLS & I/O BOARD (PCB#313045) PART 1 OF 2

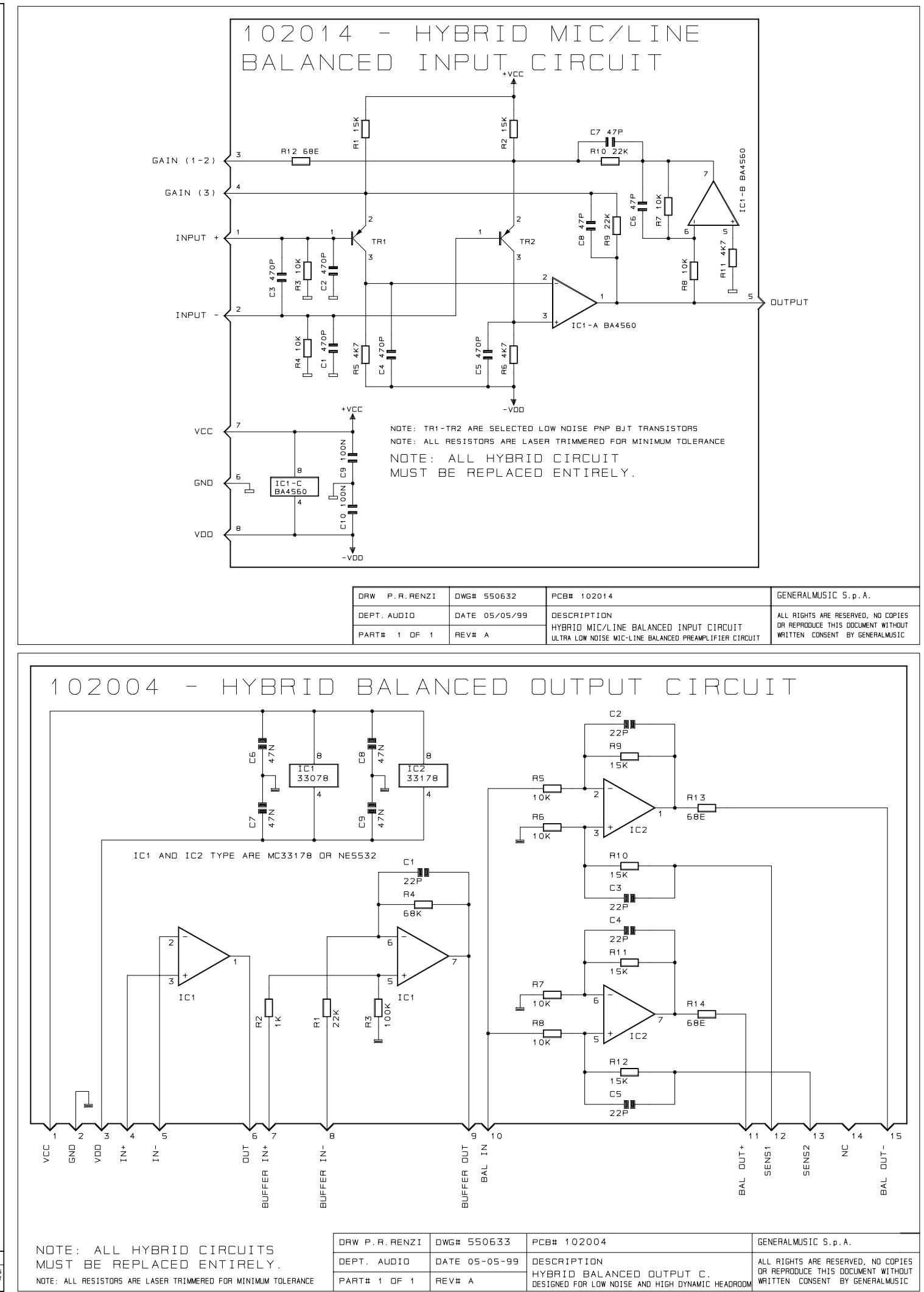
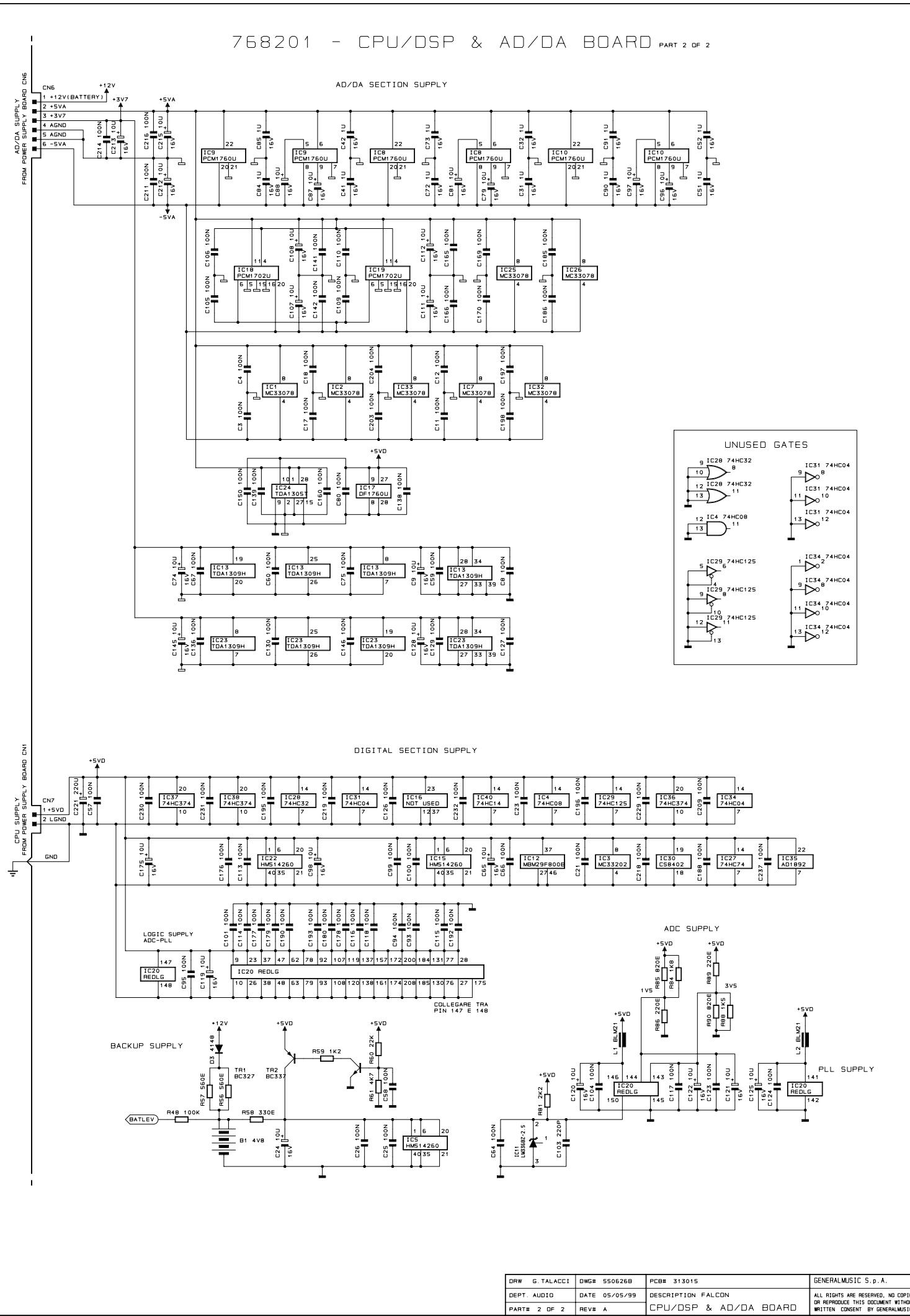
DRW: BOCCATO	DWG: 313045	SCHEMATIC DIAGRAM FALCON	GENERALMUSIC S.p.A. Italy
CKD: MULAZZANI	DISK: 4 PART: 1/2	Controls & I/O Board Pcb Layout	ALL RIGHTS ARE RESERVED, NO COPIES OR REPRODUCE THIS DOCUMENT WITHOUT WRITTEN CONSENT BY GENERALMUSIC.
APP: GAZZILLI	REV: 05-05-99		



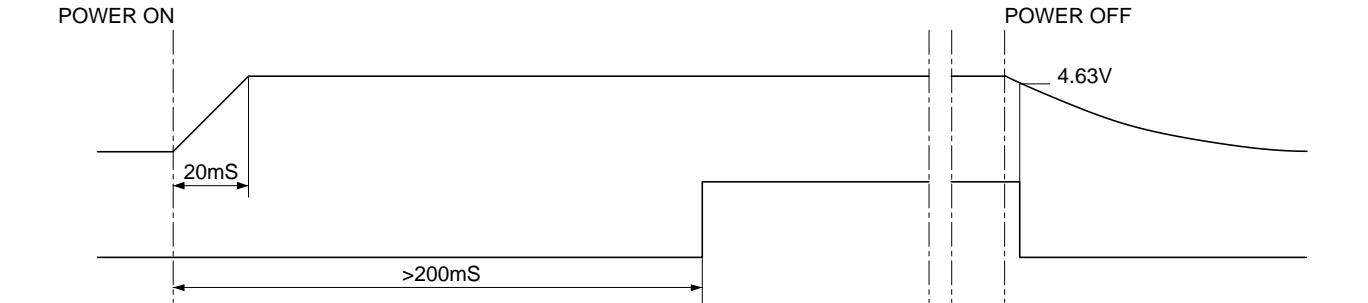
CONTROLS & I/O BOARD (PCB#313045) PART 2 OF 2

DRW: BOCCATO	DWG: 313045	SCHEMATIC DIAGRAM FALCON	GENERALMUSIC S.p.A. Italy
CKD: MULAZZANI	DISK: 4 PART: 1/1	Controls & I/O Board Pcb Layout	ALL RIGHTS ARE RESERVED. NO COPIES OR REPRODUCE THIS DOCUMENT WITHOUT WRITTEN CONSENT BY GENERALMUSIC.
APP: GAZZILLI	REV: 05-05-99		

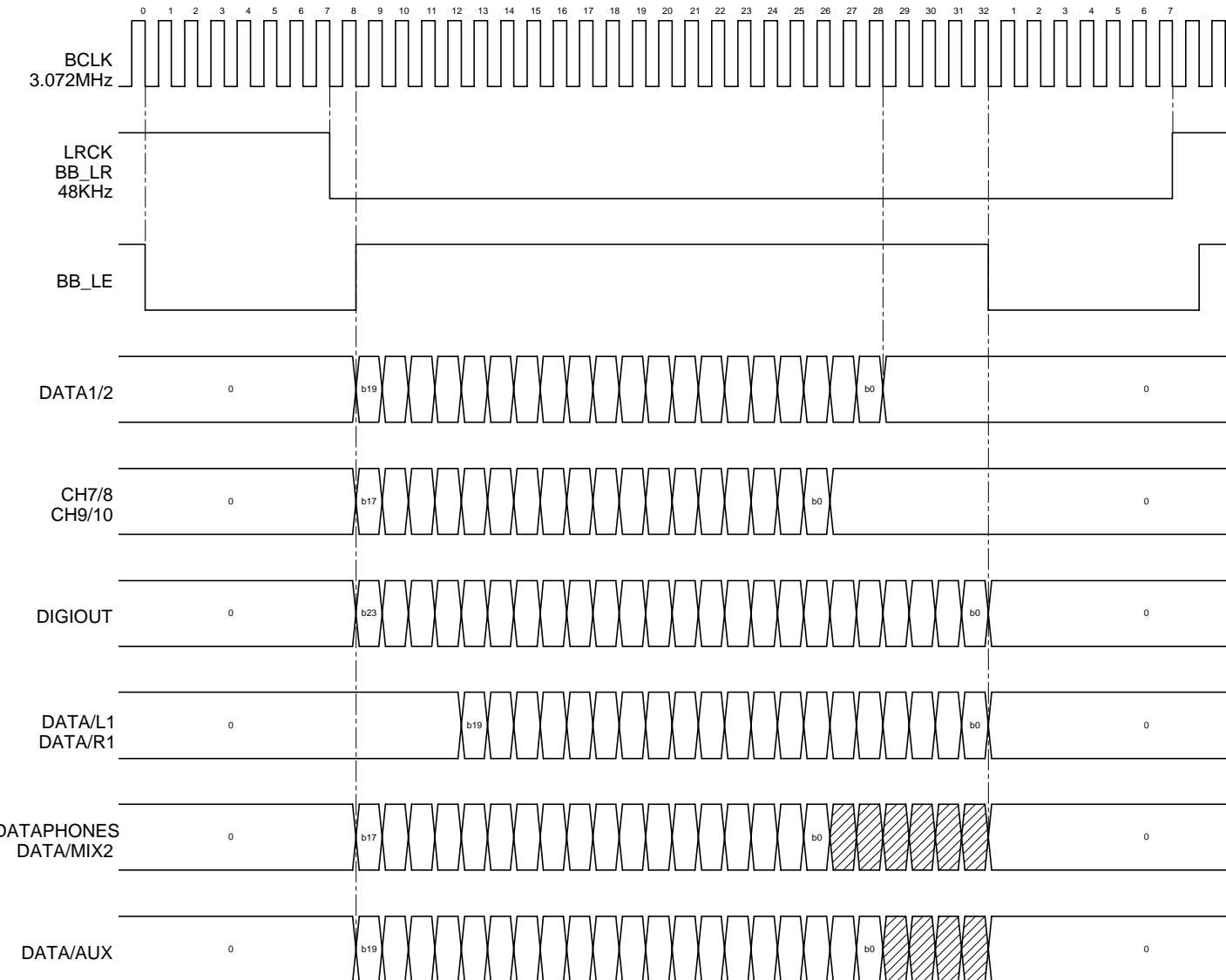




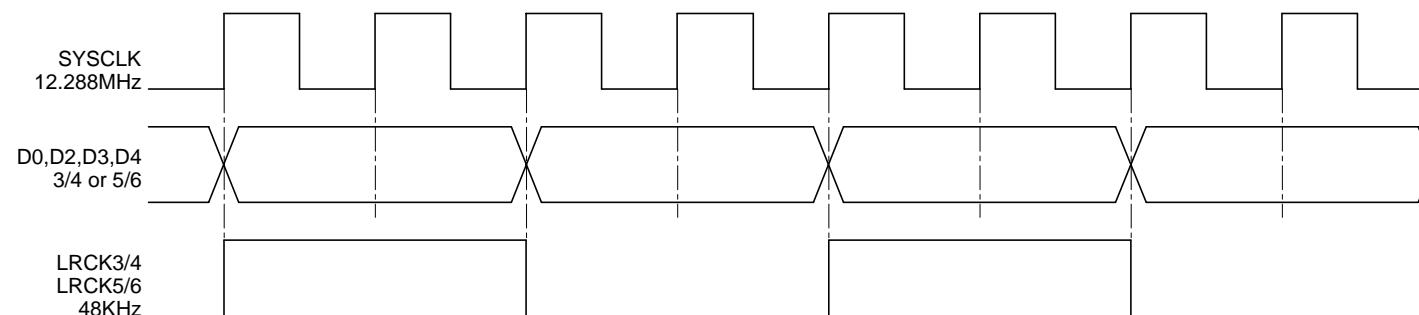
POWER & RESET TIMING



AD/DA TIMING



ADC TIMING (CH3-6)



Operating System Update Procedure

Tools required

- ✓ A 486/33 or superior computer with Windows 95 or 98 or NT installed on it, provided with a RS232 compatible serial port.
- ✓ The RS232 cable (code 130436) supplied with the mixer.
- ✓ The last version of *FLASH BLASTER II Disk* (code 955914), or the last version of the Operating System that can be downloaded from the Lem internet web site:
<http://www.lemaudio.com>

Setup

- ✓ Connect the Computer and the Mixer with the appropriate cable.
- ✓ Install the *Flash Update Utility* program onto your computer. To do this insert the disk named *FLASH BLASTER II* in your 3.5" drive, or unpack the Operating System file downloaded, open the drive or the folder and double click on *Setup.exe* icon, follow the instructions that appears on your computer screen.

Procedure

- ✓ Turn on the mixer, press and hold the HELP/OPTION button until the display shows "OSCILLATOR", press PAGE UP(+) button to jump to the next screen that says:
PRESS ENTER TO UPDATE THE SOFTWARE
(note: you can exit from this procedure by pressing any other button, or switching off the mixer at this time)
 - ✓ Press ENTER, the display screen disappear and the W led lights to confirm that the mixer is waiting to receive the new operating system from RS232 port.
 - ✓ Start the *Flash Update Utility* program and check the connection between mixer and computer correspond to the port setting on *Option/Setting* menu.
 - ✓ Click on *Go!* button, the display will show the status of the upgrade and the mixer E/H led lights on, during the uploading the meter leds light sequentially, while the Flash memory is cancelled all the meter leds light and when the memory is re-programmed all meter leds flash, the total time to perform all operations take aprox. 3min.
 - ✓ At the end of re-programming all meter and E/H leds turn off.
 - ✓ Switch off the mixer.
- VERY IMPORTANT: to ensure the correct operation of all mixer functions you must execute a MEMORY RESET procedure before using the Falcon.**

Troubleshooting

- ✓ If, for any reason, the system is not updated or the mixer do not operate correctly, you can restart it with the *Low Level* loading procedure, see below.
- ✓ Any other malfunction is described in the *Flash update utility disk* in a folder named *Docs*.

Low Level Loading Procedure

With this procedure you can load the Operating System in the mixer from beginning as if it is never been loaded previously.

- ✓ Turn on the mixer holding down the VIEW and ENV buttons of Channel 1 and VIEW DIGITAL and VOL buttons of Virtual Channel, the led W must light to confirm that the mixer is waiting to receive the operating system from RS232 port (see Operating System Update procedure).
- ✓ If the led W does not light the *Low Level* programming of the CPU/DSP & AD/DA Board does not operate properly: it must be returned to the manufacturer to be re-programmed.

Memory Reset Procedure

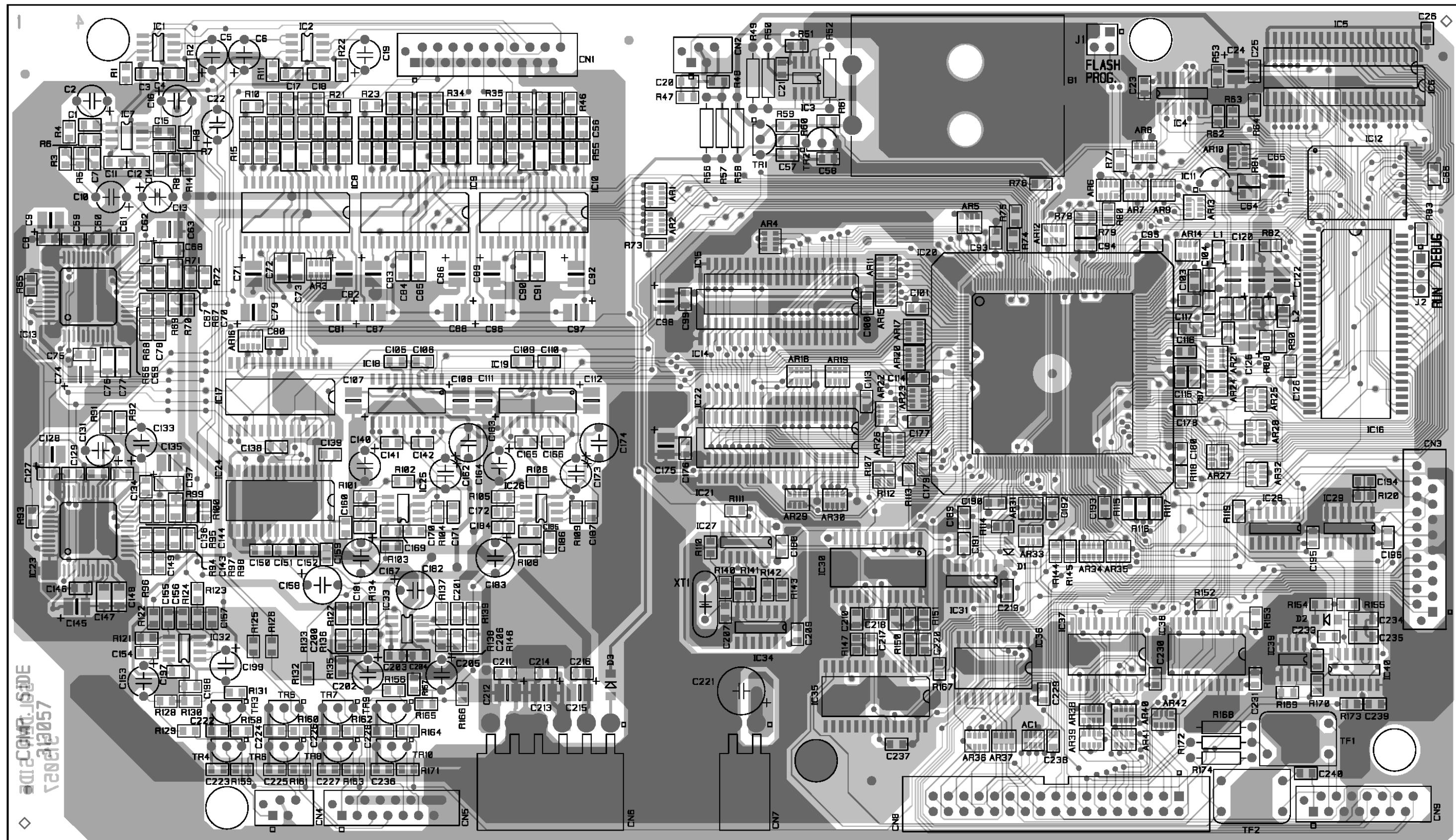
When you update the Operating System, or when you replace or repair the CPU/DSP & AD/DA Board you must execute the Memory Reset procedure to clean all memory data.

- ✓ Switch on the mixer holding down the VIEW and ENV buttons of 7/8 and 9/10 channels, the display shows a warning message and execute the RAM memory reset.

Potentiometers Calibration Procedure

When you replace or repair a CPU/DSP & AD/DA Board you must execute the potentiometers calibration procedure to align the sliders and rotating potentiometers with their AD converter, to do this perform the following procedure:

- ✓ Press GLOBAL and then press PAGE UP twice, the display shows **PASSWORD: - ++++++**.
- ✓ Press ENTER, the display shows **PASSWORD: - M**.
- ✓ Write **FALKNET** instead M using the Dial and the ENTER button.
- ✓ Press rapidly ENTER twice: the display shows **POT CALIBRATION**, press ENTER.
- ✓ Set the controls as follow:
HIGH, MID, LOW (and also MID-HIGH, MID-LOW for CH7/8 and CH9/10) and PAN potentiometers of all channels at the centre of their strokes,
CH1 up to CH4 faders at MIN,
CH5 up to CH9/10 faders at MAX,
(the other potentiometers are irrelevant).
- ✓ Press ENTER to view the current reading values of the potentiometers.
- ✓ Press and hold the ENTER button to start the calibration, when the display shows **CALIBRATION DONE** you may press and hold ENTER to view the new reading values.
- ✓ Press ESC to stop reading, press rapidly ESC twice to escape from calibration and GLOBAL to return at the main screen.



CPU/DSP & AD/DA BOARD (PCB#313057)

DRW: BOCCATO	DWG: 313057	SCHEMATIC DIAGRAM FALCON	GENERALMUSIC S.p.A. Italy
CKD: MULAZZANI	DISK: 4 PART: 1/1	Cpu/Dsp & AD/DA Board Pcb Layout	
APP: GAZZILLI	REV: 05-05-99		ALL RIGHTS ARE RESERVED, NO COPIES OR REPRODUCE THIS DOCUMENT WITHOUT WRITTEN CONSENT BY GENERALMUSIC.

Spare Part List

Legend

w EU =Specify European Version (230Vac)
US =Specify United States Version (115Vac)
1st =This version has the power switch on logo
2nd =This version has the power switch on rear panel

Ref Code Description

Optional Accessories

130301	2mt Midi Cable
44	Optional I/O kit

Accessories

955926	Dump Utility Disk for Windows 95/98/NT
955914	Flash Update Utility Disk for Windows 95/98/NT
300617	Owner's Manual Folder
277337	Quick Guide (Italian-English)
277336	Midi Reference Book (all languages)
277335	Owner's Manual (English)
277330	Owner's Manual (Italian)
130436	25 to 9 pins RS232 Serial Cable
130432	9 to 25 pins RS232 Adaptor
130297	Mains Cord (EU)
130283	Mains Cord (US)

Assembly

21	657264	Logo Rubber Pad
17	657263	Data Entry Rubber Pad
1	657262	Top Chassis
19	657261	Dial Rubber Pad
9	657260	Channels Rubber Pad
16	347383	White Knob for Motorized Slider
54	347382	Antidust for Sliders
14	347354	Yellow Knob for Slider
13	347343	White Knob for Slider
15	347342	Red Knob for Slider
18	340493	Dial Knob
	340186	Adhesive Cable Fixing
	340115	Adhesive Flat Cable Fixing
210216	Adhesive Rubber Foam 20x5mm (Specify mt)	
210215	Adhesive Rubber Foam 10x1.9mm (Specify mt)	
177699	Metal Shield for Flat Cable	
177698	Dial Support	
120960	Dial Steel Sphere	
120042	M2x2mm Screw	

Bottom Assembly

35	768195	Logo Led Board (Pcb#313049)
340856	*	6.4mm Led Spacer
140918	*	2 Contacts Hor Male Connector
080712	*	Led 3mm 44deg High Eff Green
41	727600	Fan 5Vdc 40x20mm
32	667680	Option Slot Cover
33	667679	Bottom Chassis
34	347030	Board Spacer h=4.8mm
340916	Switch Button (1st)	
340754	Rubber Foot	
177694	Power Switch Support (1st)	
36	177694	Logo Support (2nd)
24	110614	Mains Socket
38	110367	Fan Grid 40mm
25	110285	Phantom Power Switch
37	110320	Power Switch (1st)
110291	Power Switch (2nd)	
110012	T1.6A Fuse 5x20mm (EU)	
110008	T315mA Fuse 5x20mm (EU)	
110003	T3.15A Fuse 5x20mm (EU)	

Mains Filter Board

34	768197	Mains Filter Board (Pcb#310642)
230568	*	10mH 250Vac 1A AC Line EMI Coil "Siemens"
140010	*	3 Contacts P=10 Vert Terminal Block
020493	*	100n 250Vac MKP EMI Capacitor "Siemens"

Transformer

39	238087	Transformer 115Vac 60W (US)
39	238086	Transformer 230Vac 60W (EU)

Power Supply Board

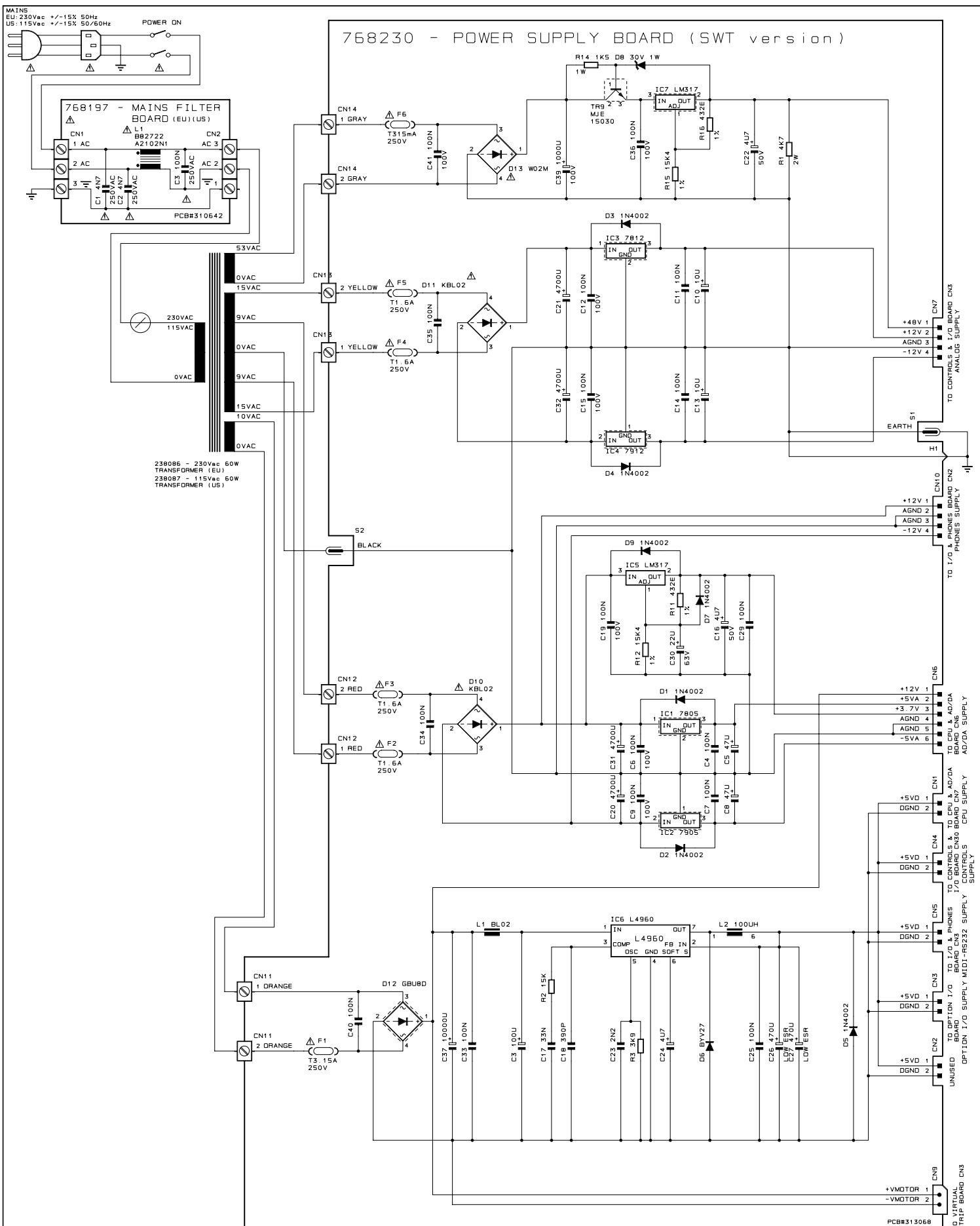
40	768190	Power Supply Board (Pcb#313039)
340154	*	TO3/TO218 Mica Washer
340079	*	TO220 Mica Washer
340078	*	TO220 Insulated Bush

141102	*	6 Contacts Vert Male Connector
141101	*	4 Contacts Vert Male Connector
141100	*	2 Contacts Vert Male Connector (CN1-5)
140917	*	2 Contacts Vert Male Connector
140085	*	Vertical 2 contacts P=10mm Terminal Block
120857	*	Vertical Male Faston 6.3mm
110119	*	Fuse Clip 10A max (EU) (US)
100920	*	LM336Z 2.5V 10mA Voltage Reference
100066	*	LM317 1.2-37V 1.5A Adjustable Regulator
100059	*	7805 +5V 1A Voltage Regulator
100058	*	7905 -5V 1A Voltage Regulator
100045	*	7812 +12V 1A Voltage Regulator
100043	*	7912 -12V 1A Voltage Regulator
090918	*	MJE15030 TO220 Npn Transistor
090916	*	MJE340 TO126 Npn Transistor
090863	*	TIP36C TO218 Pnp Transistor
090194	*	BC560 TO92 LN Pnp Transistor
090183	*	BC550 TO92 LN Npn Transistor
080606	*	GBU8D 8A Rectifier Diodes Bridge
080605	*	KBL02 4A 200V Rectifier Diode Bridge
080342	*	30V 1W 5% Zener Diode
080168	*	W02M 1.5A Rectifier Diodes Bridge
080156	*	1N4002 1A 100V Rectifier Diode
060561	*	4K7 2W 10% Resistor
060512	*	1K5 1W 5% Resistor
060048	*	0E22 3W 5% Resistor
042615	*	12K1 1/4W 1% Metalized Film Resistor
042558	*	4K42 1/4W 1% Metalized Film Resistor
042537	*	3K01 1/4W 1% Metalized Film Resistor
042475	*	825E 1/4W 1% Metalized Film Resistor
042435	*	432E 1/4W 1% Metalized Film Resistor
042425	*	332E 1/4W 1% Metalized Film Resistor
030880	*	10000uF 25V Snap-In Electrolytic Capacitor
030858	*	4700uF 25V 20% Vert Electrolytic Capacitor
030520	*	1000uF 100V 20% Vert Electrolytic Capacitor

Controls & I/O Assembly

727599	Controls & I/O Assembly	
49	768193 *	Motorized Slider Board (Pcb#313046)
340771	**	Led Spacer H=16,3mm
141015	**	14 Contacts Vert Female Connector
141013	**	10 Contacts Vert Female Connector
140918	**	2 Contacts Hor Male Connector
140529	**	Microswitch 12V 50mA 0.25mm
100963	**	BA6218 SIP Reversible-motor Driver
100066	**	LM317 1.2-37V 1.5A Adjustable Regulator
080705	**	Led 3mm 60deg Diffused Red
53	072000	** 10K Lin 60mm Motorized Slider
060260	**	12E 1W 5% Resistor
46	768192 *	Controls & I/O Board (Pcb#313045)
20	768196 **	128x64dots Display Lcd Assembly
140946	***	20 Contacts Bottom-Entry Female Connector
080754	***	LMC97S005A Lcd Display 128X64 dots
4	347385	** Yellow Switch Cap
5	347384	** White Switch Cap
12	347353	** Yellow Potentiometer Knob
11	347348	** White Potentiometer Knob
10	347346	** Black Potentiometer Knob
22	347334	** Led Meter Glass
51	347333	** Led Meter Support
140702	**	Led Spacer H=11mm
340771	**	Led Spacer H=16,3mm
230559	**	20uH 50V 3A Dc Line Filter
23	141206	** Vert Male XLR Socket (NC3MAV Neutrik)
2	141188	** Vert Female XLR Socket (NC3FAV-2-0 Neutrik)
141120	**	4 Contacts Hor Male Connector (CN3)
141119	**	2 Contacts Hor Male Connector (CN30)
141018	**	20 Contacts Vert Female Connector
141015	**	14 Contacts Vert Female Connector
141013	**	10 Contacts Vert Female Connector
141010	**	4 Contacts Vert Female Connector
140918	**	2 Contacts Hor Male Connector
140899	**	20 Contacts Strip
140863	**	34 Contacts Hor Female Connector Din41651
140531	**	2sw 2pos V Slider Switch
140529	**	Microswitch 12V 50mA 0.25mm
3	140236	** Jack V S-F Socket NJ3FDV Neutrik
120849	**	Hor Pc Male Faston 2.8
120790	**	Spacer M3-M2 H=8.7mm
52	110261	** Dial Encoder with Snap
102014	**	Hybrid Balanced Mic/Line Input
102004	**	Hybrid Master & Balanced Output
100919	**	MC33078 Dual LN Operational Amplifier
100663	**	74HC4051 8ch Analog Multiplexer
100618	**	74HC14 Hex Inverter Schmitt Trigger

100613	**	74HC4094 8bit Shift/Latch Register
100608	**	74HC165 8bit P To S Shift Register



768230 Power Supply Board (SWT version)

- | | | |
|--------|--------|--|
| 340079 | * | TO220 Mica Washer |
| 340078 | * | TO220 Insulated Bush |
| 230527 | * | BL02RN2-R62 EMI Coil For Signal |
| 230524 | * | 100uH Switching Coil |
| 170960 | * | TO220 h=25mm Heatsink |
| 160178 | * | Copper Jumper |
| 141102 | * | 6 Contacts Vert Male Connector |
| 141101 | * | 4 Contacts Vert Male Connector |
| 141100 | * | 2 Contacts Vert Male Connector |
| 140917 | * | 2 Contacts Vert Male Connector |
| 140085 | * | 2 Contacts P=10 Vert Terminal Block |
| 120857 | * | 6.3mm Vertical Male Faston for Pcb |
| 120581 | * | M3 Black Self-Locking Nut |
| 120521 | * | 3mm Black Spring Washer |
| 120005 | * | M3x10tc Screw |
| 120003 | * | M3x8tc Black Screw |
| 110119 | * | Fuse Clip 10A max (EU) (US) |
| 100900 | * | L4960 5-40V 2.5A Switching Regulator |
| 100066 | * | LM317T TO220 1.2-37V 1.5A Adjustable Regulator |
| 100059 | * | 7805 +5V 1A Voltage Regulator |
| 100058 | * | 7905 -5V 1A Voltage Regulator |
| 100045 | * | 7812 +12V 1A Voltage Regulator |
| 100043 | * | 7912 -12V 1A Voltage Regulator |
| 090918 | * | MJE15030 TO220 Npn Transistor |
| 080606 | * | GBU8D 8A Rectifier Diodes Bridge |
| 080605 | * | KBL02 4A 200V Rectifier Diode Bridge |
| 080342 | * | 30V 1W 5% Zener Diode |
| 080170 | * | BYV27 2A 100V Fast Recovery Diode |
| 080168 | * | W02M 1.5A Rectifier Diodes Bridge |
| 080156 | * | 1N4002 1A 100V Rectifier Diode |
| 060561 | * | 4K7 2W 10% Resistor |
| 060512 | * | 1K5 1W 5% Resistor |
| 050511 | * | 15K 1/4W 5% Resistor |
| 050441 | * | 3K9 1/4W 5% Resistor |
| 042626 | * | 15K4 1/4W 1% Metalized Film Resistor |
| 042435 | * | 432E 1/4W 1% Metalized Film Resistor |
| 030950 | * | 470u 16V 20% Low Esr Vert Electrolytic Capacitor |
| 030880 | * | 10000uF 25V Snap-In Electrolytic Capacitor |
| 030858 | * | 4700uF 25V 20% Vert Electrolytic Capacitor |
| 030520 | * | 1000uF 100V 20% Vert Electrolytic Capacitor |
| 030485 | * | 100u 25V 20% Vert Electrolytic Capacitor |
| 030403 | * | 47u 25V 20% Vert Electrolytic Capacitor |
| 030326 | * | 22u 63V 20% Vert Electrolytic Capacitor |
| 030245 | * | 10u 50V 20% Vert Electrolytic Capacitor |
| 030170 | * | 4u7 50V 20% Vert Electrolytic Capacitor |
| 021018 | * | 33n 63V 10% MKT Polyester Capacitor |
| 021004 | * | 2n2 63V 10% MKT Polyester Capacitor |
| 020481 | * | 100n 100V10% MKT Polyester Capacitor |
| 010595 | * | 100n 50V -20+80% Ceramic Cap. Multilayer |
| 010413 | * | 390p 50V 10% CL2 Ceramic Capacitor |
| 110012 | T1.6A | Fuse 5x20mm (EU) |
| 110008 | T315mA | Fuse 5x20mm (EU) |
| 110003 | T3.15A | Fuse 5x20mm (EU) |
| 110061 | T3.15A | Fuse 6.3x32mm (US) |
| 110059 | T315mA | Fuse 6.3x32mm (US) |
| 110055 | T1.6A | Fuse 6.3x32mm (US) |

DRW G. BOCCATO	DWGB 550708	PCB# 313068/310642	GENERALMUSIC S.p.a.
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