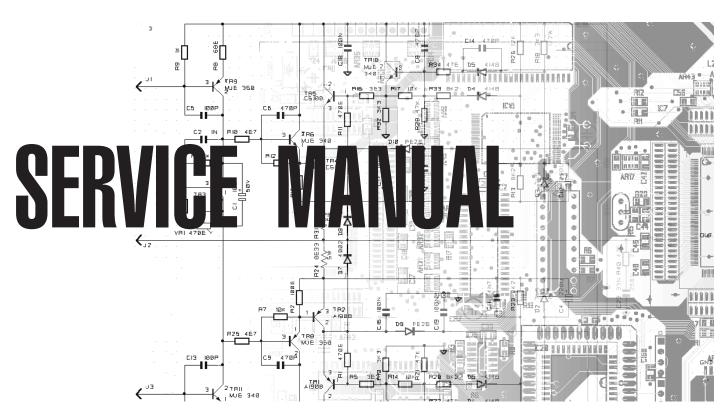
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# 40-bit DUAL STEREO DIGITAL EFFECT PROCESSOR





**► CODE: 270251** 

### Index

**Technical Specifications & Preset Table** 

Controls & Rear Panels

Supply Board, In/Out Board, Controls Panel Board

Cpu/Dsp & AD/DA Board

Timing Table & Spare Part List

# **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  $(\Omega)$  omega symbol of resistance value is substituted by E.

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

All resistors are 1/8W unless otherwise specified.

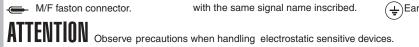
All switches shown in the "OFF" position. All DC voltages measured to ground with a voltmeter 20KOhm/V.

- ← Soldering point. Male connector.
- ▲ Supply voltage.

⊥ Logic supply ground. \_ Analog supply ground.

- 5- Female connector.
- Test point. Flag joined with one or more flags
- \_ Chassis ground.

- M/F faston connector.
- Earth ground.



## Address



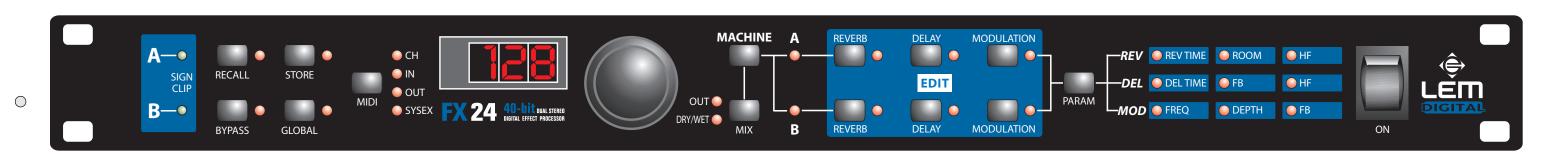
Phone +39(0)541/959511 · Fax +39(0)541/957404 · GENERALMUSIC on the NET: http://www.generalmusic.com

EV	OA - TEOLINICAL OBEOLEIOATIONO
FX	24 • TECHNICAL SPECIFICATIONS INPUT section
Connectors	2 x JACK 1/4" unbalanced
Input sensitivity	0 dB / 0.775 V
Max. input level	+12 dB
Impedance	47 kOhms
impedance	OUTPUT section
Connectors	4 x JACK 1/4" unbalanced
Nominal output level	0 dB
Max. output level	+12 dB
Impedance	1 kOhms
Impedance	DSP section
A/D converters	20 bit
D/A converters	24 bit
Internal dynamics	40 bit
Sampling frequency	48 kHz
	Features
Configuration	FULL DUAL STEREO (2 IN / 4 OUT): 2 stereo effects completely independents
	Up to 3 effect ALGORITHMS for each PRESET
	3 EDITABLE PARAMETERS for each effect ALGORITHMS
Features	128 FACTORY PRESETS + 128 USER PRESETS for each A & B section
	64 + 64 GLOBAL
	MIDI implementation
	Hall, Room, Vocal, Plate & Gate Reverbs - Delay - Chorus - Flanger - Phaser -
Type of effects	Rotary - Pitch Shift
	3-DIGIT LCD with rotary DIAL
	MACHINE A & B selector
	EDIT buttons REVERB, DEALY & MODULATION + PARAMETER selector
	MIX selector for IN/OUT LEVEL and BALANCE
Controls	GLOBAL and MIDI selectors
	RECALL and STORE buttons for PRESETS and GLOBALS
	SIGNAL/PEAK LEDs
	BYPASS switch and MUTE FOOTSWITCH connector (rear panel)
	General Specifications
Frequency response	20 Hz - 20 kHz
Dynamic range	102 dB
Distortion (THD)	0.06% @ 1 kHz (dry)
Power supply	see label on the unit rear panel
Dimensions	483 x 44 x 300 mm (W x H x D)
Weight	4.0 kg

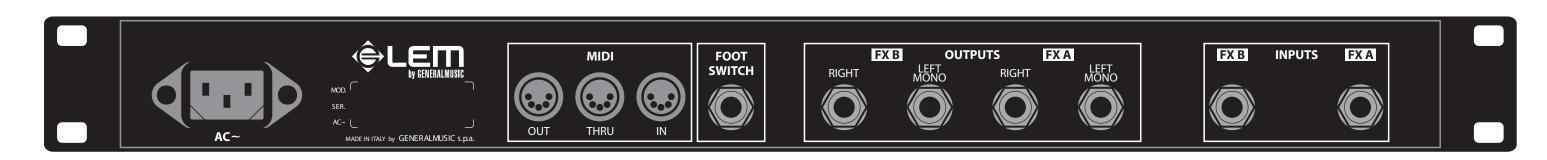
									FX 24	- PRES	ET TAB	LE									
		Large Bright Hall	REV Hall	RT 2.4	FOOM 54	PD 22	<i>HF</i> 6.94														
1		Small Bright Hall Brass Hall	Hall Hall	1.5 1.7	38 50	14 40	6.94 8.98														
		Crystal Hall Choir Hall	Hall Hall	1.7 1.7	35 38	22 16	thru 11.6														
	6	Percussion Hall	Hall	1.7	35	16	8.98														
IJ		Large Warm Hall Small Warm Hall	Hall Hall	2.9 1.7	55 38	23 14	1.49														
H	9	Acoustic Hall Concert Hall	Hall Hall	1.7 0.9	45 45	20 35	1.92														
	11	Horn Hall	Hall	2.1	40	50	5.37														
1		Cathedral Stadium	Hall Hall	6.1 2.4	55 55	50 50	1.49 0.53														
H	14	Large Room	Room	1.7	45	15	5.37														
1	16	Small Room Tom Room	Room Room	0.8 1.3	25 35	7 8	2.49 8.98														
]		BD Room SD Room	Room Room	0.8	25 35	7 6	5.37 1.15														
Н	19	Dark Room	Room	1.0	30	9	3.21														
Н	21	Female Long Female Short	Vocal Vocal	2.9 0.9	70 15	70 30	3.21														
1		Male Long Male Short	Vocal Vocal	2.9 0.9	70 15	70 30	4.16 4.16														
	24	Backing Vox	Vocal	0.7	50	70	6.94														
	26	Drums Small Drums Large	Plate Plate	1.2 3.6	22 22	8 40	5.37 8.98														
		Piano Small Piano Large	Plate Plate	0.6 1.3	5 42	15 20	11.6 5.37														
	29	Vocal Small	Plate	1.0	15	15	1.15														
1	31	Vocal Large SD Gate	Plate Gate	2.1 0.9	45 35	33 6	6.94 1.15														
		BD Gate Percussion Gate	Gate Gate	0.8 1.2	25 23	7	5.37 6.94														0
	34	Vocal Gate Brass Gate	Gate Gate	0.6	50 50	40 40	8.98 8.98														
	36	Rhythm Gate	Gate	1.5	30	20	8.98														
	37 <i>No.</i>	Strong Cut DELAYS	Gate	2.1	20	10	3.21	DEL LD	RD LFB	R FB HF											4
	38	Mono Delay Stereo Delay						Mono 200		50% <b>0</b> 23% <b>0</b>	-										
П	40	Tube						Stereo 35	35 <b>59.5</b> %	52 <b>0</b>	-										
11		Bounce Tape Back	_				-	Stereo 500 Stereo 35		0% <b>-3</b>	-										
4		R&R							80 21%		MOD	Mod. freq.	Mod. Depth	Pan Depth	R FB	L FB	LPF	Pan freq.	Slow/Fast	Attack Xover	4
11	44	Vocal Chorus									Chorus	0.8	80.0	0	n FB	LFD	LFF	ган пед.	SiOW/P'ast	Allack XOVer	1 _
]		Guitar Chorus Rich Chorus									Chorus Chorus	0.7 1.1	61.5 87.0	29.0 29.0							
<b>J</b>	47	Vibra Chorus Moving Flanger									Chorus Flanger	5.3 1.6	16.5 25.5	<b>0</b> 47.5	67.5%	67.5%					
	49	Guitar Flanger									Flanger	1.6	43.0	0	65%	65%					
		Rich Flanger Large Flanger									Flanger Flanger	1.6 0.2	66.5 89.5	43.0 16.5	75.5% 75.5%	64% 80%					
	52	Fast Phaser Slow Phaser									Phaser Phaser	6.2 0.6	67.5 67.5	58.0 96.0	65% 65%	65% 65%	-19 -19				
	54	Funky Phaser									Phaser	1.1	58.0	0	31.5%	31%	-6				4
		Large Phaser Sweet Rotation									Phaser Phaser	0.6 3.9	100.0 43.0	58.0 76.0	79% 31.5%	78% 33%	-6 0				
	57	Hard Rotation Slow Rotary									Phaser Rotary	16.4	43.0	78.0	54.5%	53%	0		SLOW	6.5 0.35	
	59	Fast Rotary									Rotary								FAST	6.5 0.35	$\circ$
		Slow Tremolo Fast Tremolo									Phaser Phaser							2.1 5.3			
	No.		PITCH Pitch	Glob. Pitch 0	Fine Pitch																A
	63	Fine pitch -	Pitch	0	-6																
	No.		Pitch REV	5 RT	-2 ROOM	PD	HF	DEL LD	RD LFB	R FB HF											
		Heavy D&R Vocals Soft D&R Vocals	Vocal Vocal	4.5 1.0	30 15	5 20		Stereo 300 Stereo 111	150 <b>24%</b> 150 <b>0%</b>	60% -5 0% -5	-										
	67	Drum Hall	Hall	1.7	35	16	8.98	Stereo 200	100 <b>50</b> %	50% -20											
	69	Small Reflections Plate Delay	Hall Room	1.0 1.7	15 20	16 18	8.98	Stereo         100           Stereo         300	150 <b>42</b> %												
		Gymnasium Smooth Church	Hall Hall	1.5 2.1	20 38	225 20			209 <b>43%</b> 250 <b>60.5%</b>	43% -11 33% -11											
	72	Background	Plate	1.7	30	20	6.94	Stereo 111	150 <b>0</b> %	0% -5											4
	No.		Plate REV	0.6 RT	10 ROOM	5 PD	HF	Stereo 200	300 0%	0% 0	MOD	Mod. freq.	Mod. Depth		R FB	L FB	LPF	Pan freq.	Slow/Fast	Attack Xover	
		C&R Vocals Guitar Combo	Plate Plate	2.1 1.2	20 30	125 8	8.98 8.98				Chorus Chorus	2.5 1.1	63.0 83.5	0 39.5							
	76	Electric Hall	Plate	1.7	30	15	5.37				Chorus	7.2	47.5	75.5							
	78	Soft Chords Ambience	Plate Hall	1.3 2.1	15 20	10 50	11.6 8.98				Chorus Chorus	1.1 2.5	10.0 63.0	47.5 0							
		Reflections Flanged Piano	Hall Plate	1.2 0.6	10 5	125 15	8.98 11.6				Chorus Flanger	0.7 0.2	83.5 89.5	<b>47.5</b> 16.0	68%	75%	-0.08				4
	81	Flanged Vocal	Plate	1.0	15	15	1.15				Flanger	1.6	25.5	47.0	60%	60%	-0.35				
	83	Rich Room Vibra Hall	Room Hall	1.7 2.4	45 54	15 22	5.37 6.94				Flanger Flanger	1.6 6.7	25.5 6.0	53.0 28.0	60% 60%	68% 60%	-0.08 -0.1				
		Phased Piano Funky Hall	Plate Hall	1.3 0.7	42 20	20 12	5.37 8.98				Phaser Phaser	0.9 1.1	67.5 58.0	58.0 0	65% 31.5%	65% 31.5%	-19 -6				
	86	Tremolo Hall	Hall	1.7	38	14	1.92				Phaser	1.1	30.0	U	31.3%	J1.3%	-0	2			
		Rotary Room Rotary Jazz	Room Room	0.8	15 22	8 12	1.49				Rotary Rotary								SLOW FAST	6.5 0.35 6.5 0.35	I
																					-

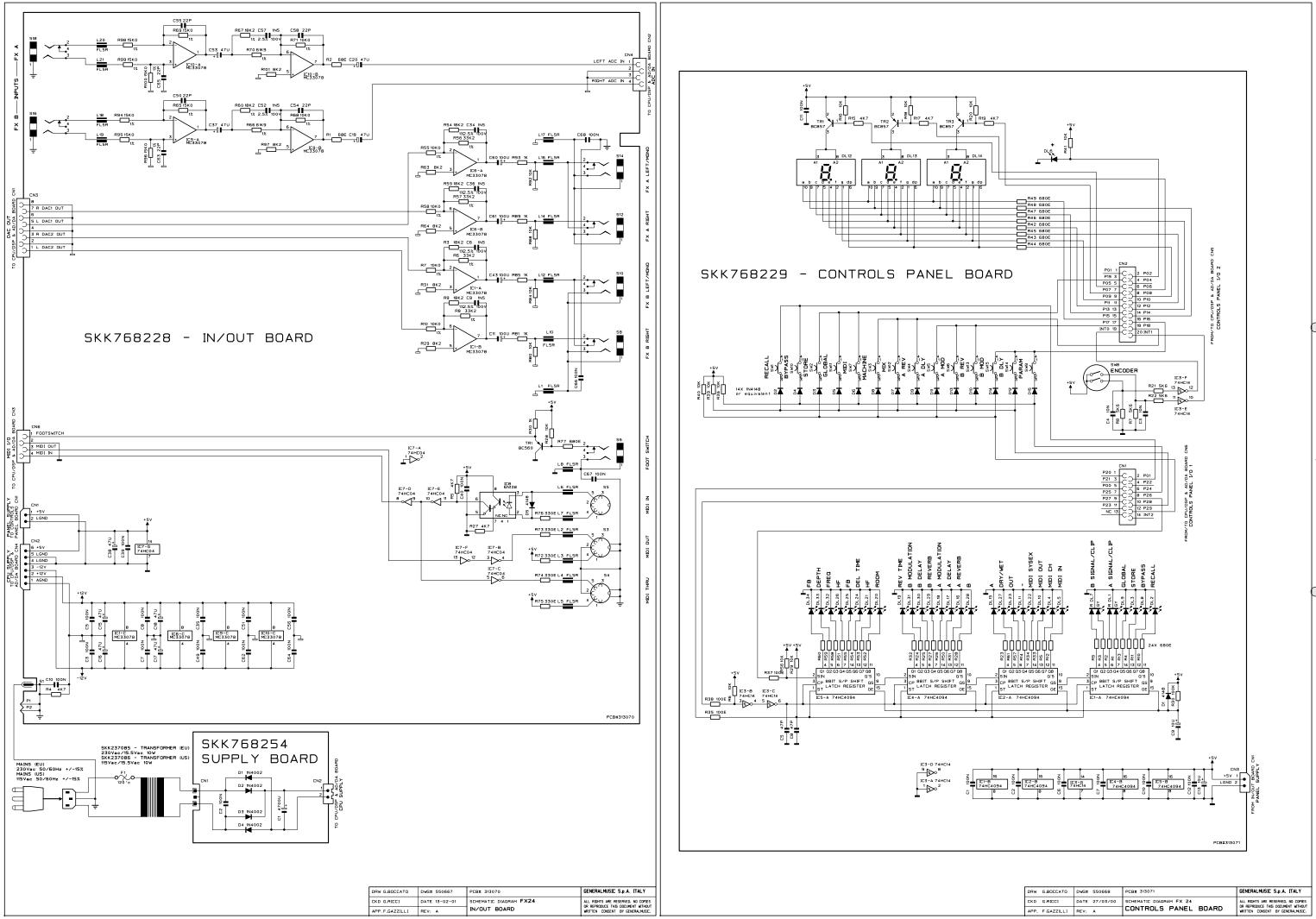
								FX	24 ·	- PR	ESE	ET TAE	BLE									
No. REV+DEL+MOD	REV	RT	ROOM	PD	HF	DEL	LD F	RD	L FB	R FB	HF	MOD	Mod. freq.	Mod. Depth	Pan Depth	R FB	L FB	LPF	Pan freq.	Slow/Fast	Attack	Xover
89 Stereo Guitar	Hall	1.0	27	22	thru	Stereo	100	50	0	0	-13	Chorus	1.1	61.5	9.5							
90 Solo Guitar	Hall	1.7	20	22	thru	Stereo	<b>150</b> 1	00	0	0	-13	Chorus	2.1	68.5	44.0							
91 Deep Impact	Plate	1.0	30	225	thru	Stereo	30	50	0	0	-13	Flanger	3.8	0	64.0	85%	85%	0				
92 Cavern	Plate	3.6	30	70		Stereo	100 1	50	0	0	-13	Flanger	3.9	0	64.0	85%	85%	0				
93 Ice Pizzicato	Room	6.1	30	50	thru	Stereo	100 1	10	31.5%	55%	0	Flanger	2.1	51.5	60.0	100%	100%	0				
94 Split Signals	Room	0.6	30	50	thru	Stereo	<b>10</b> 3	300 <b>6</b>	31.5%	61.5%	0	Flanger	38.7	0.5	0	100%	100%	-10				
95 Inside A Dream	Room	6.1	30	50	13	Stereo	300	0 6	6.5%	0	0	Flanger	38.7	0.5	0	100%	100%	-10				
96 Foundry Room	Room	1.5	8	0	thru	Stereo	1	1	50%	25%	0	Phaser	0.6	95.5		73.5%	75%	-7.9				
97 Foundry Cut	Room	1.2	10	0	thru	Stereo	1	1	50%	25%	0	Phaser	0.6	95.5		73.5%	75%	-7.9				
98 Snake Guitar	Hall	6.1	20	225	thru	Stereo	100 2	200	80%	60%	0	Phaser	2.1	100		80%	92%	0				
99 Spatial Groove	Plate	2.9	15	40	thru	Stereo	<b>337</b> 3		37%	20%	-13	Phaser	5.3	13.0		73.5%	68%	0				
100 Glass Cavern	Room	4.5	40	125		Stereo	10 ;	30	37%	20%	-13	Phaser	0.2	83.5		82.5%	82.5%	0				
101 Silica Hall	Hall	2.1	25	70		Stereo	10	30	37%	20%	-13	Phaser	0.2	83.5		82.5%	82.5%	0				
102 Brake Loop	Plate	2.1	25	70	thru	Stereo	100	50	37%	20%	-13	Phaser	0.2	83.5		82.5%	82.5%	0				
103 Separated Floor	Plate	0.9	25	70		Stereo			37%	20%	-13	Phaser	0.2	83.5		82.5%	82.5%	0				
104 Pulsar	Hall	4.5	5	225	1.92	Stereo	186 1	74	36%	30%	-13	Phaser	0.2	51.0		46.5%	82%	0				
105 Electric Chain	Hall	4.5	5	225	1.92	Stereo	186 1	74	36%	30%	-13	Phaser	0.2	26.0		13%	82%	0				
106 Chewingum	Hall	4.5	30	50	thru	Stereo	186 1	74	36%	30%	-13	Phaser	0.2	26.0		13%	82%	0				
107 Brake Rubber	Hall	4.5	30	50	thru	Stereo	186 1	74	0	0	-13	Phaser	0.2	26.0		13%	82%	0				
108 Slow Room	Room	1.3	8	0	3.21	Stereo	20	10	0	0	-10	Rotary								SLOW	6.5	0.35
109 Fast Room	Room	1.3	15	30	3.21	Stereo	20	10	0	0	-10	Rotary								FAST	6.5	0.35
110 Rotary Gate	Gate	1.7	15	30	3.21	Stereo			30%	42%	-10	Rotary								FAST	6.5	0.35
111 Extreme Rotary	Plate	0.9	15	30	3.21	Stereo	50	25	30%	42%	-10	Rotary								FAST	1	0.70
112 Rotated Echo	Plate	0.6	15	30	3.21	Stereo			8.5%	63%	-10	Rotary								FAST	5.5	0.70
113 Nightmare Echo	Plate	0.6	15	30	3.21	Stereo	30	10	93%	85%	-10	Rotary								FAST	5.5	0.70
114 Deep Space	Plate	6,1	20	50	thru	Stereo	210 2	250 5	3.5%	50%	0	Chorus	0.6	25.0	0.5							
115 Metal Geyser	Plate	0.8	20	50	thru	Stereo	<b>210</b> 2	250	0	0	0	Chorus	0.6	25.0	0.5							
116 Dark Shade	Plate	0.8	20	50		Stereo			0	0	0	Flanger	28	100	0.5	50%	50%	0				
117 Smooth Voice	Plate	1.0	30	30		Stereo	15	5	7%	7%	-9	Flanger	0.6	74.5	23.0	70%	63%	0				
118 Vega Loop	Plate	0.6	30	5		Stereo			7%	7%	-9	Flanger	0.4	10.0	0	73.5%	70%	-5				
119 Acoustic Dreams	Hall	3.6	30	20					7%	7%	0	Flanger	0.6	74.5	23.0	70%	69%	0				
120 Crazy Tremolo	Hall	6.1	30	20	thru	Stereo	93 1	51	54.5	53	0	Flanger	6.2	0	0	0	78%	0				
121 Space Tremolo	Plate	6.1	30	20		Stereo			33.5%	30%	0	Flanger	4.4	37.0	90.0	95.5%	95.5%	0				
122 Guitar Stop	Plate	0.8	15	5		Stereo		74	9.5%	12	0	Chorus	0.7	75.5	53.5							
123 A-synch Echo	Plate	1.0	30	225		Stereo			0.5%	0.5%	0	Flanger	3.1	0	90.0	85%	85%	0				
124 Washed Strings	Plate	1.0	30	15		Stereo	163	0 2	24.5%	0	-1	Chorus	1.1	100	0							
125 Arpeggio	Plate	1.0	30	225	thru	Stereo	163	0 2	24.5%	0	-1	Flanger	0.7	100	90.0	85%	85%	0				
126 Wash Cut	Gate	2.1	30	225	thru	Stereo		0 2	24.5%	0	-1	Flanger	0.7	100	90.0	85%	85%	0				
127 Pad Torsion	Hall	2.4	13	0	thru	Stereo	15	30	0	0	0	Flanger	0.2	90.5	0	60.5%	57%	0				
128 Soft Torsion	Hall	2.4	15	0	thru	Stereo	50	80	64%	56%	0	Flanger	0.2	90.5	16.0	88.5%	64%	-8.5				

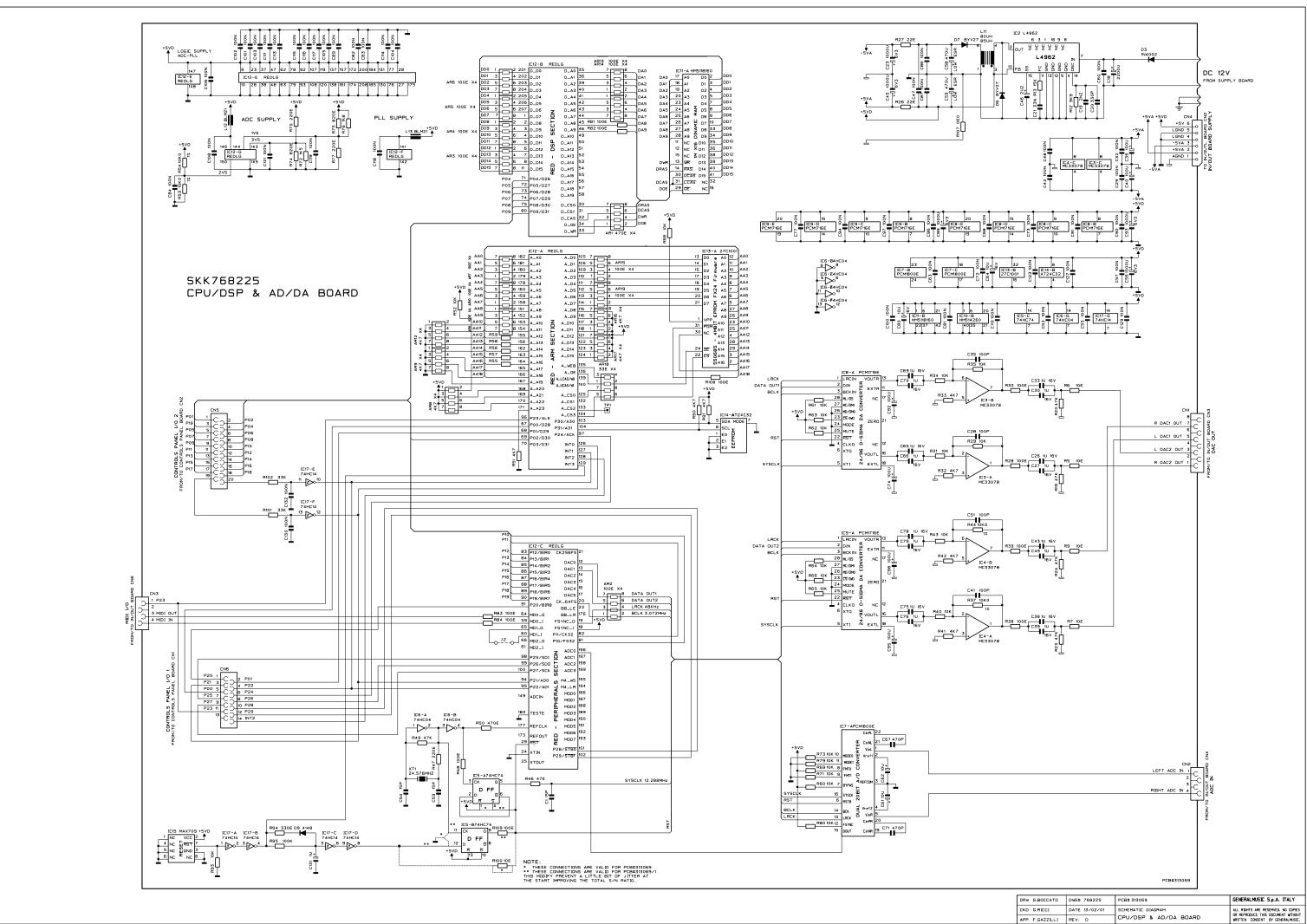
#### **CONTROLS PANEL**



#### **REAR PANEL**

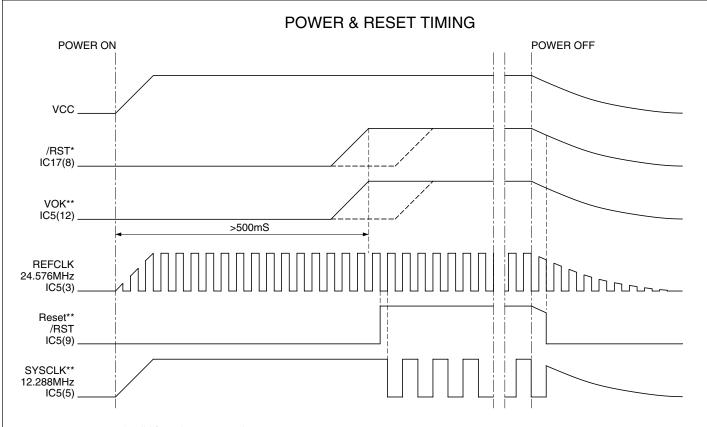






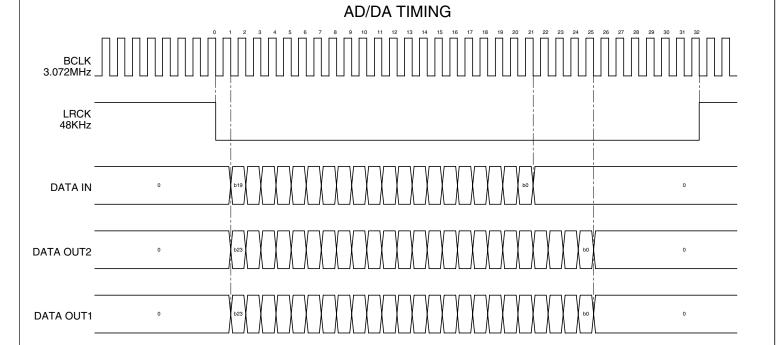
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#### \* valid for pcb#313069 only.

<sup>\*\*</sup> valid for pcb#313069/1 only.



DRW BOCCATO	DWG# 550670	PCB#	GENERALMUSIC S.p.A. ITALY
CKD L.GIBIN	DISK: 6 PRT: 1/1	TIMING TABLE	ALL RIGHTS ARE RESERVED, NO COPIES OR REPRODUCE THIS DOCUMENT WITHOUT
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#### Spare Part List

Code	Description	
Ac	ccessories	
370534	"Lem" Adhesive Logo	
277348	Owner's Manual (Italian-English)	
SKK180792	Adhesive Preset Table	
130274	Mains Cable (EU)	
130276	Mains Cable (US)	

AS	Sembly
SKK667723	Top Chassis
SKK667722	Bottom Chassis
SKK667721	Controls Panel
SKK657276	Display Screen
SKK347394	Rubber Switch Actuator
SKK340961	Encoder Knob
SKK237086	115/15.5Vac 10W Transformer (US)
SKK237085	230/15.5Vac 10W Transformer (EU)
120827	10mm Threaded Spacer
120582	M3 Black Nut
120481	3mm Black Shakeproof Washer
120467	4.2x10x0.5 Nylon Washer
120451	3.2x7x0.5 Black Washer
120276	B2.9x6.5mm Screw
120029	M3x6tc Black Screw
120025	M3x10tsp Black Screw
120005	M3x10tc Screw
110614	Mains Socket
110285	4A 250Vac Bipolar Power Switch
020491	100nF 10% 250Vac Polyester Capacitor

#### Supply Board

SKK768254	Sup	oply Board (Pcb#313088)
080156	*	1N4002 1A 100V Rectifier Diode
030858	*	4700uF 25V 20% Vert Electrolytic Capacitor
010595	*	100n 50V -20+80% Ceramic Cap. Multilayer

#### In/Out Board

SKK768228	In/	Out Board (Pcb#313070)
230569	*	FL5R200PNT EMI Coil For Signal
160098	*	Jump Length 5.1mm
160093	*	Jump Length 10mm
141012	*	8 Contacts Vert Female Connector
141010	*	4 Contacts Vert Female Connector
140217	*	Jack Slim Horizontal S-F Socket
140212	*	5 Poles Din Horizontal Female Socket
120857	*	Vertical Male Faston 6.3mm
100919	*	MC33078 Dual LN Operational Amplifier
100602	*	74HC04 Hex Inverter
100035	*	6N138 Optocoupler
090194	*	BC560C TO92 LN Pnp Transistor
080103	*	1N4148 100mA 75V Signal Diode
052048	*	10K 1/8w 5% Resistor
052047	*	8K2 1/8w 5% Resistor
052044	*	4K7 1/8w 5% Resistor
052036	*	1K 1/8w 5% Resistor
052034	*	680E 1/8w 5% Resistor
052030	*	330E 1/8w 5% Resistor
052022	*	68E 1/8w 5% Resistor
050491	*	10K 1/4W 5% Resistor
050451	*	4K7 1/4W 5% Resistor
050371	*	1K 1/4W 5% Resistor
042665	*	33K2 1/4W 1% Metalized Film Resistor
042632	*	18K2 1/4W 1% Metalized Film Resistor
042625	*	15K0 1/4W 1% Metalized Film Resistor
042605	*	10K0 1/4W 1% Metalized Film Resistor
030485	*	100u 25V 20% Vert Electrolytic Capacitor
030403	*	47u 25V 20% Vert Electrolytic Capacitor
022002	*	1n5 2.5% 100V MKP Polypropylene Capacitor
010595	*	100n 50V -20+80% Ceramic Cap. Multilayer
010271	*	22p 50V 10% CL2 Ceramic Capacitor
Co	ntr	ols Panel
CKKZCOOOO	0-	ntrole Danel (Deb#212071)

C	mur	ois Panei
SKK768229	Со	ntrols Panel (Pcb#313071)
340856	*	6,4mm Led Spacer
340825	*	2.8mm Led Spacer
141018	*	20 Contacts Vert Female Connector
141015	*	14 Contacts Vert Female Connector
140529	*	Microswitch 12V 50mA 0.25mm
110261	*	Dial Encoder with Snap
103028	*	74HC4094M1R SOIC 8bit Shift/Latch Register
103000	*	74HC14D Soic Hex Inverter Schmitt Trigger
091001	*	BC857 TO236 Smd Pnp Transistor
081000	*	PMLL4148 Smd 100mA 75V Signal Diode
080742	*	Led 3mm Wide Diffused Red-Grn
080717	*	HDN1105 7 Segments Display

080705	*	Led 3mm 60deg Diffused Red
055060	*	100K 1/16w 5% Smd Resistor 0603
055048	*	10K 1/16w 5% Smd Resistor 0603
055045	*	5K6 1/16w 5% Smd Resistor 0603
055044	*	4K7 1/16w 5% Smd Resistor 0603
055037	*	1K2 1/16w 5% Smd Resistor 0603
055024	*	100E 1/16w 5% Smd Resistor 0603
052038	*	1K5 1/8w 5% Resistor
030246	*	10u 25V 20% Low Prof Vert Electrolytic Capacitor
011260	*	100n 50V 10% Smd CL2 Y5V 0603
011248	*	10n 50V 10% Smd CL2 X7R 0603
011220	*	47p 50V 10% Smd CL2 X7B 0603

Cn	/D	4/p 50V 10% Smd CL2 X/H 0603
		ISP & AD/DA Board
SKK768225 550685	*	u/Dsp & AD/DA Board (Pcb#313069)  27C4001D Eprom 4mbit "FX24 Firmware"
250524	*	25x25mm Thermoconductor Adhesive
231000	*	BLM21A102STP Smd EMI Coil For Signal
230523	*	80-85uH Switching Dual Coil
177690	*	Heatsink
171039	*	Ground Leaf
141018	*	20 Contacts Vert Female Connector
141015	*	14 Contacts Vert Female Connector
141012	*	8 Contacts Vert Female Connector
141010	*	4 Contacts Vert Female Connector
140606	*	32pin IC Socket
120276	*	B2.9x6.5mm Screw
106003	*	MAX709 Power Monitor With Reset
106001	*	MC33078P SOIC Dual Low Noise Op. Amp.
105008	*	RED208 Risc Cpu and Dsp
104021	*	AT24C32N SOIC 32Kbit Serial Access EEprom
104009	*	HM5118160ALJ 16Mbit Dram Ta=70nS
103043	*	PCM1716 24 Bit Stereo Dac
103042	*	PCM1800 20 Bit Stereo Adc
103010	*	74HC04D SOIC Hex Inverter
103007	*	74HC74D SOIC Dual Flip-Flop
103000	*	74HC14D Soic Hex Inverter Schmitt Trigger
100901	*	L4962 5-40V 1.5A Switching Regulator
081000	*	PMLL4148 Smd 100mA 75V Signal Diode
080170	*	BYV27 2A 100V Fast Recovery Diode  1N4002 1A 100V Rectifier Diode
080156 055103	*	470E X4 1/16w 5% Smd Resistor Array
055102	*	33E X4 1/16w 5% Smd Resistor Array
055101	*	4K7 X4 1/16w 5% Smd Resistor Array
055100	*	100E X4 1/16w 5% Smd Resistor Array
055060	*	100K 1/16w 5% Smd Resistor 0603
055056	*	47K 1/16w 5% Smd Resistor 0603
055054	*	33K 1/16w 5% Smd Resistor 0603
055050	*	15K 1/16w 5% Smd Resistor 0603
055048	*	10K 1/16w 5% Smd Resistor 0603
055044	*	4K7 1/16w 5% Smd Resistor 0603
055043	*	3K9 1/16w 5% Smd Resistor 0603
055039	*	1K8 1/16w 5% Smd Resistor 0603
055038	*	1K5 1/16w 5% Smd Resistor 0603
055035	*	820E 1/16w 5% Smd Resistor 0603
055032	*	470E 1/16w 5% Smd Resistor 0603
055030	*	330E 1/16w 5% Smd Resistor 0603
055028	*	220E 1/16w 5% Smd Resistor 0603
055024	*	100E 1/16w 5% Smd Resistor 0603
055020	*	47E 1/16w 5% Smd Resistor 0603
055012	*	10E 1/16w 5% Smd Resistor 0603
050171	*	22E 1/4W 5% Resistor
042605	*	10K0 1/4W 1% Metalized Film Resistor
042260	*	0E 1/4W Resistor
031007	*	10u 16V 20% Smd Electrolytic Tantalium Capacitor
030950	*	470u 16V 20% Low Esr Vert Electrolytic Capacitor
030805	*	2200u 25V 20% Vert Electrolytic Capacitor
030715	*	1000u 6v3 20% Vert Electrolytic Capacitor 100u 25V 20% Vert Electrolytic Capacitor
030485	*	·
030245 030082	*	10u 50V 20% Vert Electrolytic Capacitor 2u2 50V 20% Vert Electrolytic Capacitor
030002	*	1u 50V 20% Vert Electrolytic Capacitor
021018	*	33n 63V 10% MKT Polyester Capacitor
021016	*	2n2 63V 10% MKT Polyester Capacitor
011260	*	100n 16V 10% Smd CL2 X7R 0603
011232	*	470p 16V 10% Smd CL2 X7R 0603
	*	330p 16V 10% Smd CL2 X7R 0603
		47p 16V 10% Smd CL2 X7R 0603
011230	*	
011220	*	•
		15p 16V 10% Smd CL2 X7R 0603 1u 16V 10% Smd CL2 XTR 1206

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#### Wiring Connections

841263	8 Wires 3cm Length Flat Cable
841206	4 Wires 20cm Length Flat Cable
840826	14 Wires 15cm Length Flat Cable
840799	4 Wires 7.5cm Length Flat Cable
840722	20 Wires 10cm Length Flat Cable