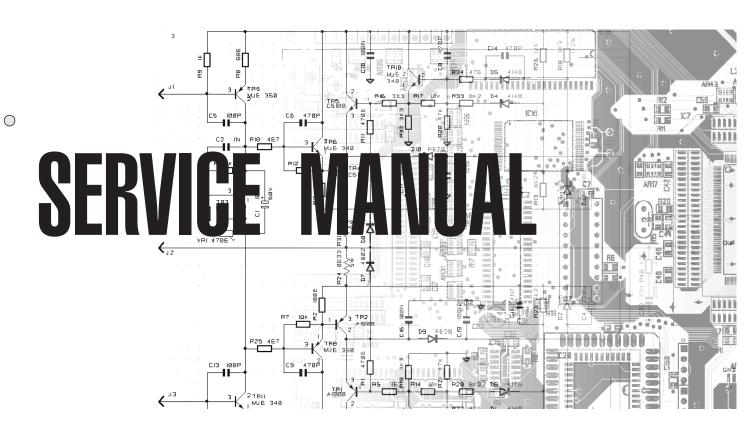
SWING20FX **20 INPUT INTEGRATED LIVE MIXER**

SWING20 **20 INPUT LIVE MIXER**





► CODE: 270269

Index

Exploded View & Technical Specifications

Block Diagrams

Wiring Diagram

Mono & Stereo Channels Schematic Diagram

Channels & Master Schematic Diagram (part of)

Channels & Master Schematic Diagram (part of)

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

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

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

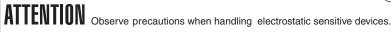
- Supply voltage.

⊥ Logic supply ground _ Analog supply ground.

- Test point.

Chassis ground.

- Female connector. M/F faston connector.
- Flag joined with one or more flags
- $\left(\begin{array}{c} \bot \end{array}\right)$ Earth ground.



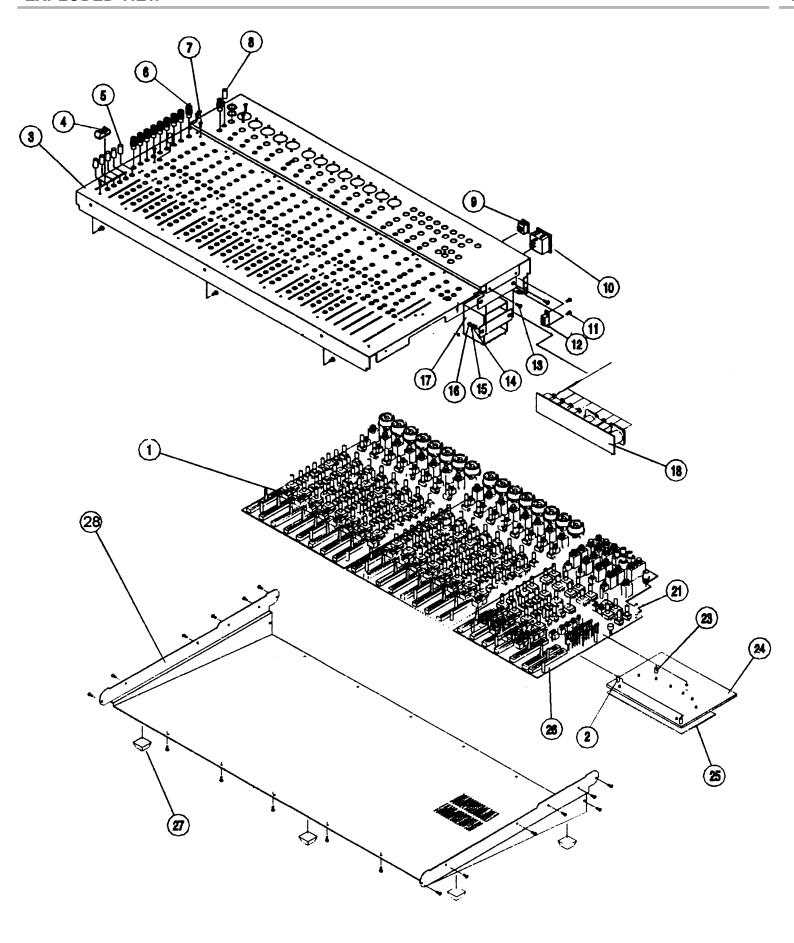


Address



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

EXPLODED VIEW

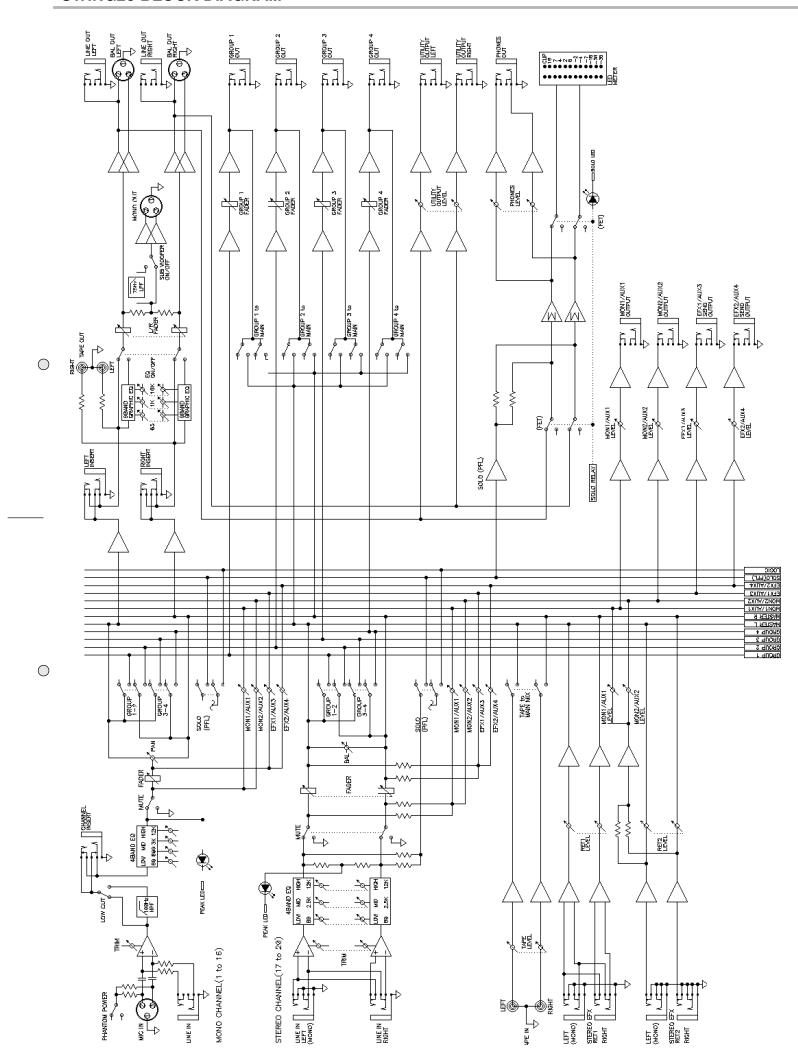


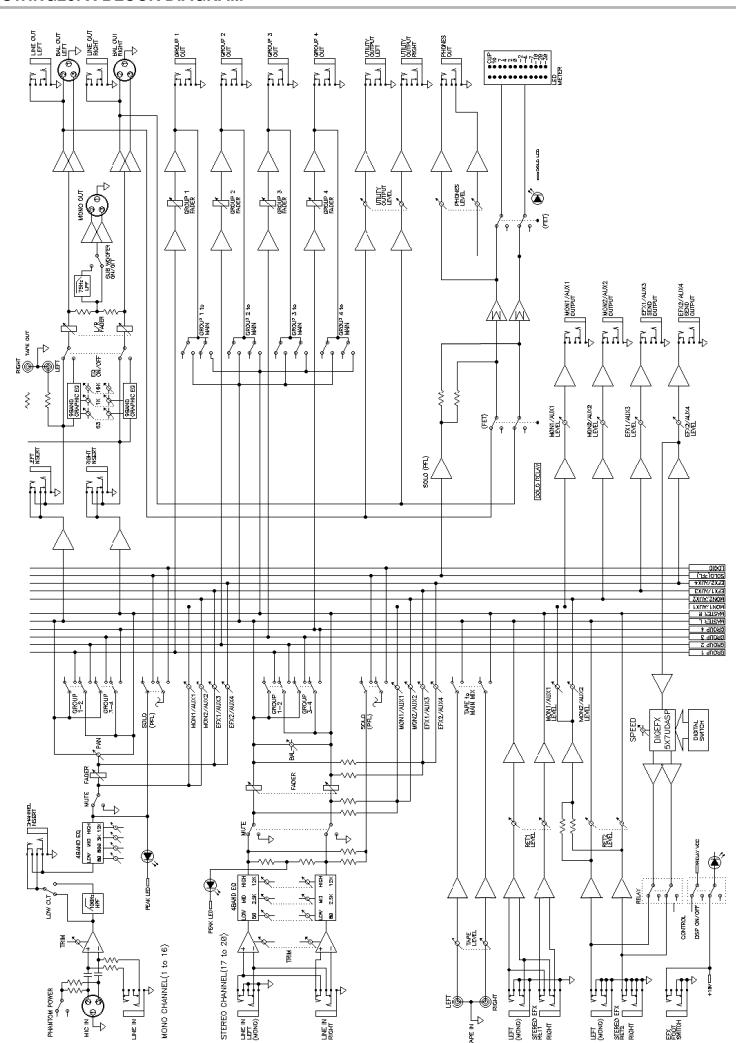
SWING 20/20FX • TECHNICAL SPECIFICATIONS					
SECTION		LEVELS & DATA	CONNECTORS		
MONO INPUT CHANNEL					
MIC input	•	from -10 to -60dB 1.3 kOhms	Balanced XLR-F		
LINE input	•	from +10 to -40dB 10 kOhms	Balanced JACK		
EQ	HIGH HI-MID LO-MID	75Hz, 18dB/oct. ±15dB @ 12kHz, SHELVING ±12dB @ 3kHz, PEAKING ±12dB @ 800Hz, PEAKING ±15dB @ 80Hz, SHELVING			
STERO INPUT CHANNEL					
STEREO LINE input		10 kOhms	Balanced JACK		
EQ	MID	±15dB @ 12kHz, SHELVING ±12dB @ 2.5kHz, PEAKING ±15dB @ 80Hz, SHELVING			
MASTER SECTION					
MIX output (balanced) MIX output (unbalanced)	output level output level	+4dB /-26dB +4dB	Balanced XLR-M Unbalanced JACK		
MIX B output	output level	0dB	Balanced XLR-M		
MONO output	output level	+4dB	Balanced XLR-M		
GROUP output	output level	+4dB	Balanced JACK		
CONTROL ROOM output	output level	+4dB	Unbalanced JACK		
MONITOR output	output level	+4dB	Unbalanced JACK		
AUX sends	output level	+4dB	Unbalanced JACK		
AUX return	sesitivity	0dB	Unbalanced JACK		
TAPE		-20dB 0dB	RCA phono		
HEADPHONES output	minimum impedance output level	200 Ohms 2x160mW	Stereo JACK		
DSP SECTION (SWING20FX only)					
A/D Converters	bit	18			
D/A Converters	bit	18			
Internal Dynamics	bit	24			
Sampling Frequency	KHz	44.1			
Presets Numbers		15			
Effects		Hall Reverb, Room Reverb, Plate Reverb, Stereo Delay			
GENERAL SPECIFICATIONS					
Frequency response		20Hz - 60kHz, ±1dB			
Hum & Noise		-90dB			
THD		<0.005% @ 1kHz			
Crosstalk		-85dB -84dB			
Maximum levels	MIC IN TAPE IN other inputs MIX OUT (XLR) other outputs	+384B11			
Power supply		see label on the apparatus			
Weight	kg	11			
Dimensions	mm (WxHxD)	630x92x375			

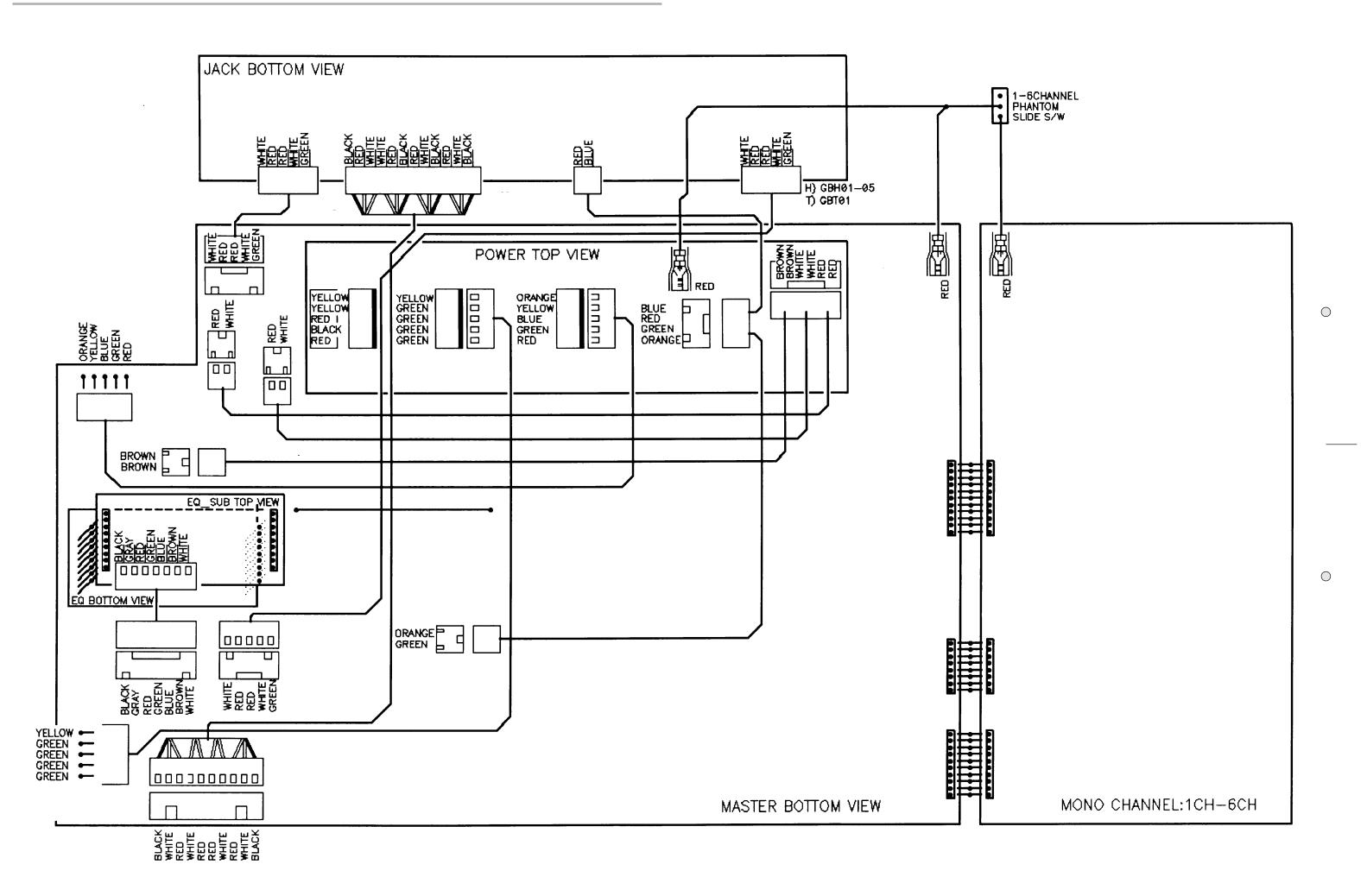
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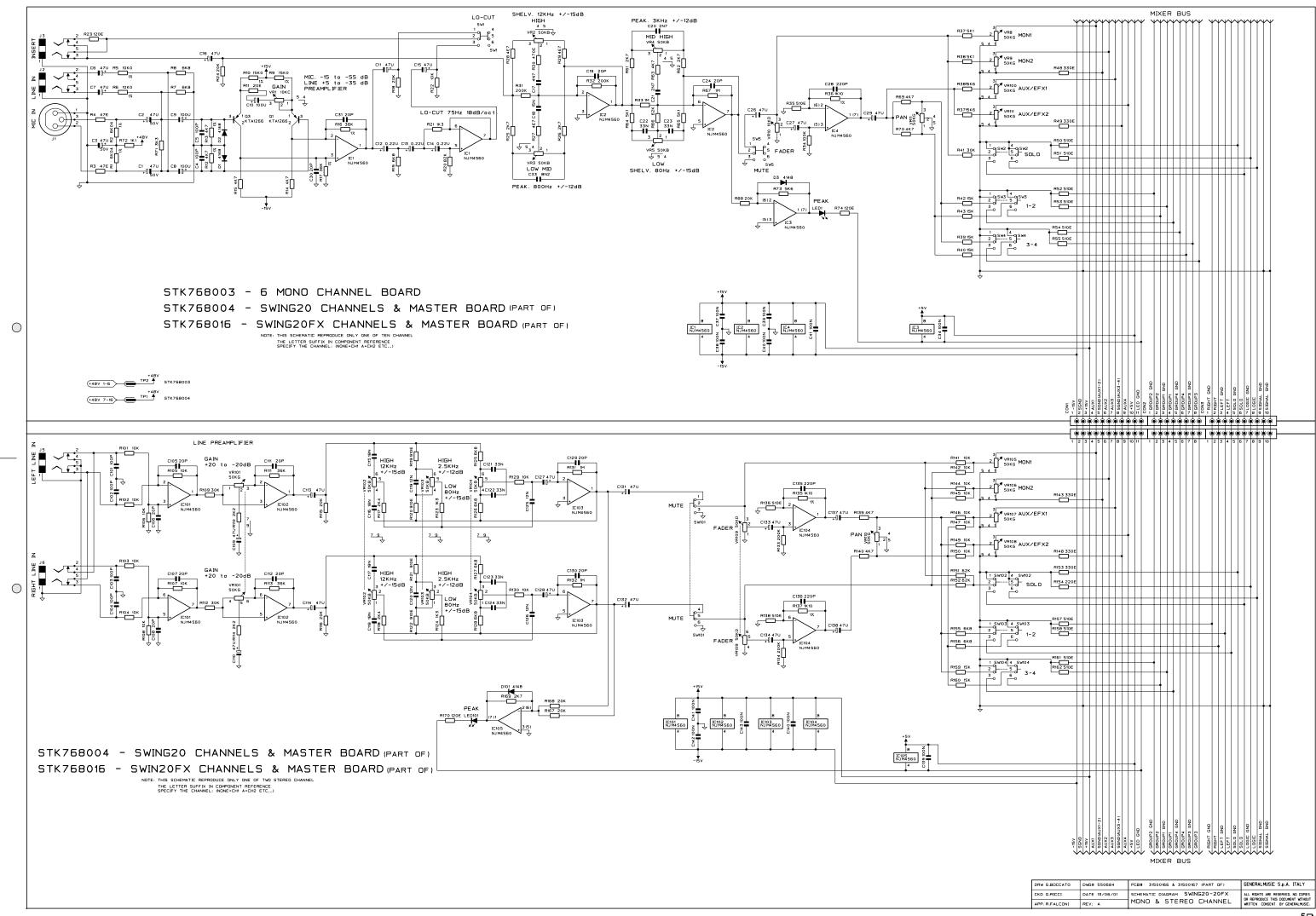
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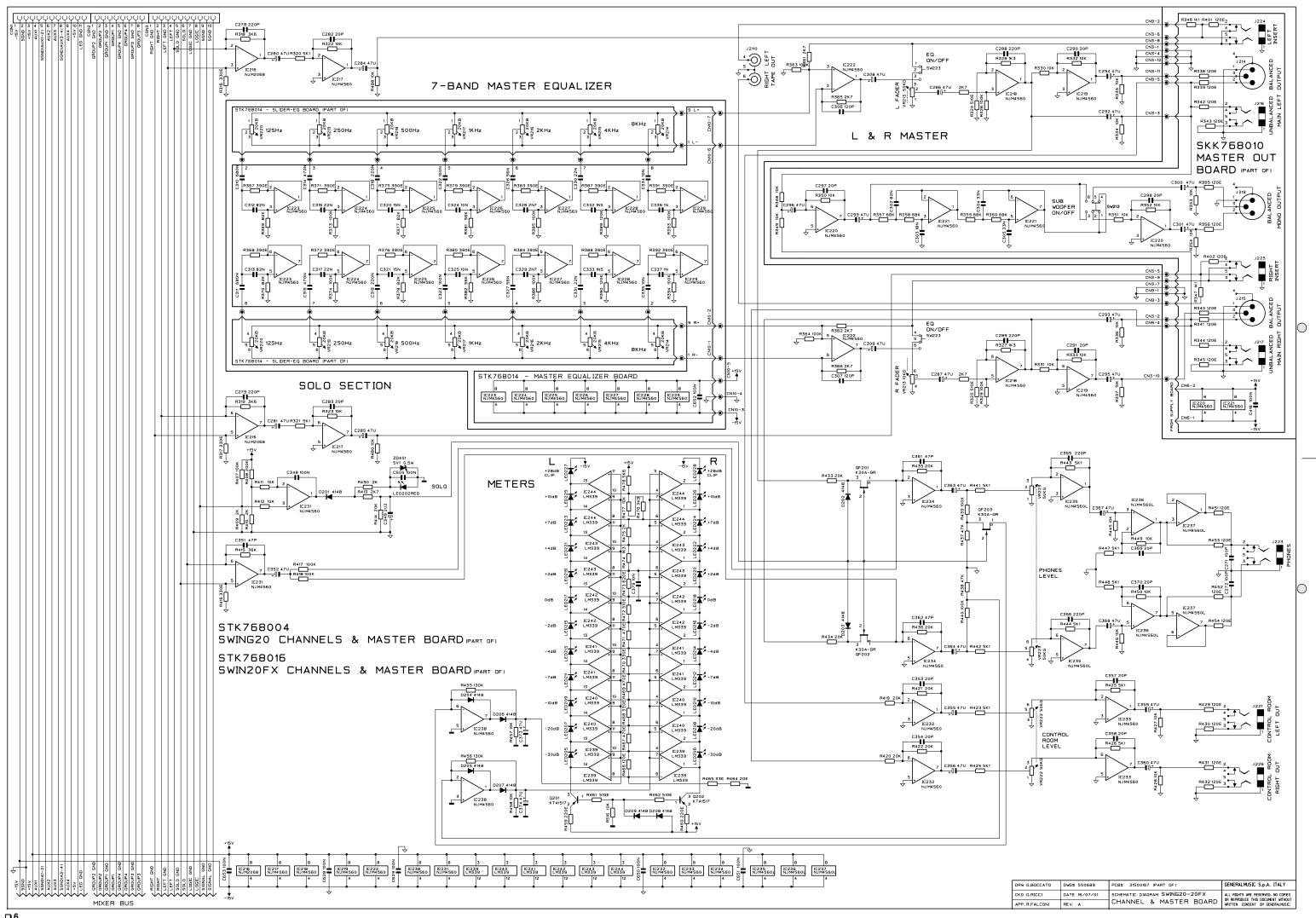
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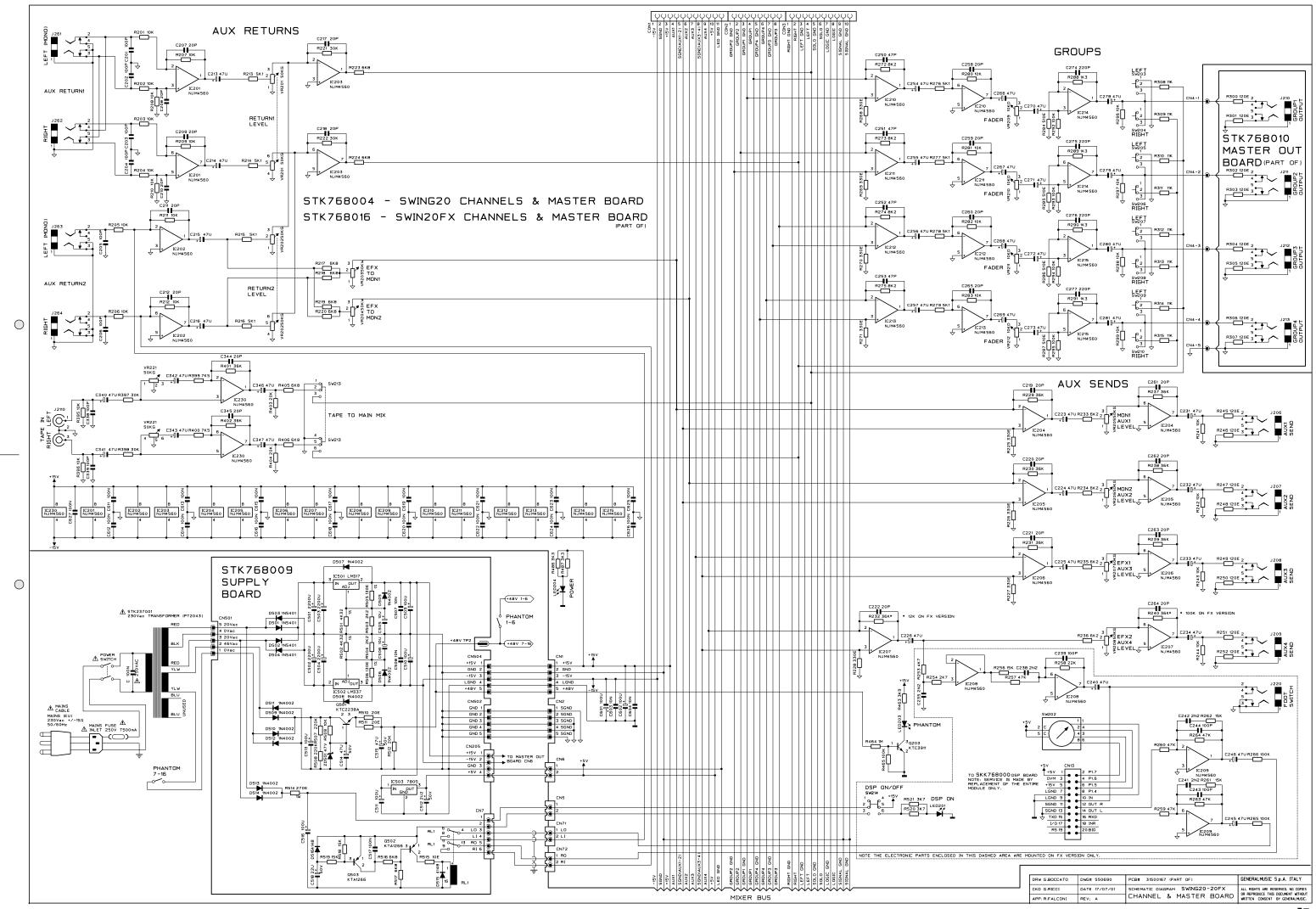












SWING2	0 & SWING20FX SPARE PART LIST	STK106000 STK106001	NJM4560M SOIC Dual Operational Amplifier NJM2068M SOIC LN Dual Operational Amplifier	
Code Re	f Description	STK106002	* LM339 SOIC Quad Comparator	
	Accessories	STK100000	* NJM4560L SIP8 Dual Operational Amplifier	
277369	Swing20 Owner's Manual (English-Italian)	_	DSP Board	
277365	Swing20FX Owner's Manual (English-Italian)	STK768000	DSP Board (SWING 20FX only)	
130297	Mains Cable (EU)		· · · · · · · · · · · · · · · · · · ·	
	Mechanical Parts		Master Equalizer Board	
CTV667000 20		STK768014	Master Equalizer Board * NIMESON SOLC Duck Operational Applifier	
	Swing20 Bottom Chassis Swing20 Top Chassis	STK106000	* NJM4560M SOIC Dual Operational Amplifier	
	Swing20FX Bottom Chassis		Slider-Eq Board	
	Swing20FX Top Chassis	STK768015	Slider-Eq Board	
	Adhesive Rubber Foot High Switch Actuator	STK073004	* 2x20KB 30mm Slider Potentiometer with C.Click	
	Low Switch Actuator		Master Out Board	
STK340002 6A		STK768010	8 Master Out Board	
STK340003 6B		STK140000	* Vertical Jack Stereo Female Socket	
STK340004 6C STK340005 6D	•	STK141002 STK106000	Vertical Male XLR Socket NJM4560M SOIC Dual Operational Amplifier	
STK340006 6E		- 211110000	Nominocom Colo Dual Operational Amplinor	
STK340007 4	Slider Knob for 60mm Slider Pot			
STK340009	White Knob for Effects			
STK140001	U Contact Strip (Specify Contacts)			
	Mains Assembly			
	Mains Inlet with 5x20mm Fuse Holder			
110017	T500mA Fuse 5x20mm (EU)			
	4A 250Vac Bipolar Power Switch Black Bipolar Switch			
	Shielded Transformer (PT2043) 230Vac/20+20/46Vac			
	Supply Board			
CTV7C0000 OF				
STK768009 25 STK030805	* 2200u 25V 20% Vert Electrolytic Capacitor			
STK100066	* LM317 1.2-37V 1.5A Adjustable Regulator			
STK100067	* LM337 1.2-37V 1.5A Adjustable Regulator			
STK100059	* 7805 +5V 1A Voltage Regulator			
STK090002 STK090000	KTC2238AY Npn Transistor KTA1266Y TO92 LN Pnp Transistor			
340079	* TO220 Mica Washer			
STK080156	* 1N4002 1A 100V Rectifier Diode			
STK080167	* 1N5403 3A 300V Rectifier Diode			
STK080201 STK110300	* 1N4756A 47V 1W 5% Zener Diode * Relay 12V / 1Switch 1A 250Vac			
<u> </u>	·			
	CH1-6 Mono Channel Board			
STK768003 1 STK140000	CH1-6 Mono Channel Board (Pcb#31500166) * Vertical Jack Stereo Female Socket			_
STK140000	* Vertical Female XLR Socket			_
STK075001	* 10KC Rotary Potentiometer with Central Click			
STK074000	* 50KB Rotary Potentiometer with Central Click			
STK074001 STK074002	* 50KG Rotary Potentiometer with Central Click * 100KG Rotary Potentiometer with Central Click			
STK073001	* 10KD 60mm Slider Potentiometer			
STK090000	* KTA1266Y TO92 LN Pnp Transistor			
STK110201	* 2sw 2pos Vertical Slider Switch			
080103 STK081000	* 1N4148 100mA 75V Signal Diode * 1N4148 100mA 75V Signal Diode			_
STK106000	* NJM4560M SOIC Dual Operational Amplifier			
	Channels & Master Board			
OTIVE COOK				
	Swing20 - Channels & Master Board (Pcb#31500167) Swing20FX - Channels & Master Board (Pcb#31500167)			
STK140000	* Vertical Jack Stereo Female Socket			
STK141000	* Vertical Female XLR Socket			
STK140201	* Vertical Rca Quad Female Socket			
STK075001	* 10KC Rotary Potentiometer with Central Click * 50KB Potery Potentiometer with Central Click			
STK074000 STK074001	* 50KB Rotary Potentiometer with Central Click * 50KG Rotary Potentiometer with Central Click			
STK074002	* 100KG Rotary Potentiometer with Central Click			Note:
STK074003	* 2x50KG Rotary Potentiometer with Central Click			- All dimensions are in mm unless otherwise specified.
STK074004	* 2x50KB Rotary Potentiometer with Central Click * 10KD 60mm Slider Petentiometer			- Each spare part is single quantity unless otherwise specified.
STK073001 STK073002	* 10KD 60mm Slider Potentiometer * 2x50KD 60mm Slider Potentiometer			- Asterisk prefix explanation: Omitted = First level spare part.
STK090000	* KTA1266Y TO92 LN Pnp Transistor			One asterisk = Second level, part of previous listed first level part.
STK090001	* 2SK30AGR TO92 LN N-Channel Jfet			Two asterisk = Third level, part of previous listed second level part.
STK110201	* 2sw 2pos Vertical Slider Switch			Three asterisk =
STK080232 080103	* 5V1 0.5W 5% Zener Diode * 1N4148 100mA 75V Signal Diode			Any request for not above mentioned part must encompass specific description including: 1) Model name,
STK081000	* PMLL4148 Smd 100mA 75V Signal Diode			2) Section name,
STK080700	* 3mm Diffused Red Led			3) Module code,
OTI/000704	* 3mm Diffused Green Led			4) Reference name,
STK080701				
STK080701 STK080702 STK080703	* 3mm Diffused Yellow Led * 5mm Diffused Red Led			5) Quantity number.