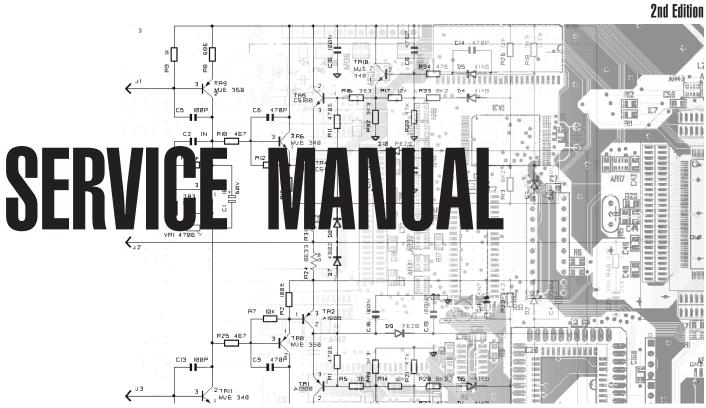
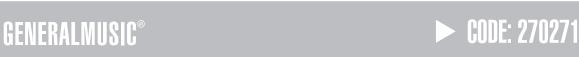
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SWING14P 14 INPUT POWERED MIXER





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- **Technical Specification & Exploded View**
 - Block Diagram & Wiring Diagram
- **Supply & Amplifier Board**
- Mono Channels Board
- Stereo Channels & Master Board Part 1 of 2
- Stereo Channels & Master Board Part 2 of 2
- **Spare Part List**

Warnings

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 1/8W 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. Test point.

 ⊥ Logic supply ground. _ Analog supply ground.

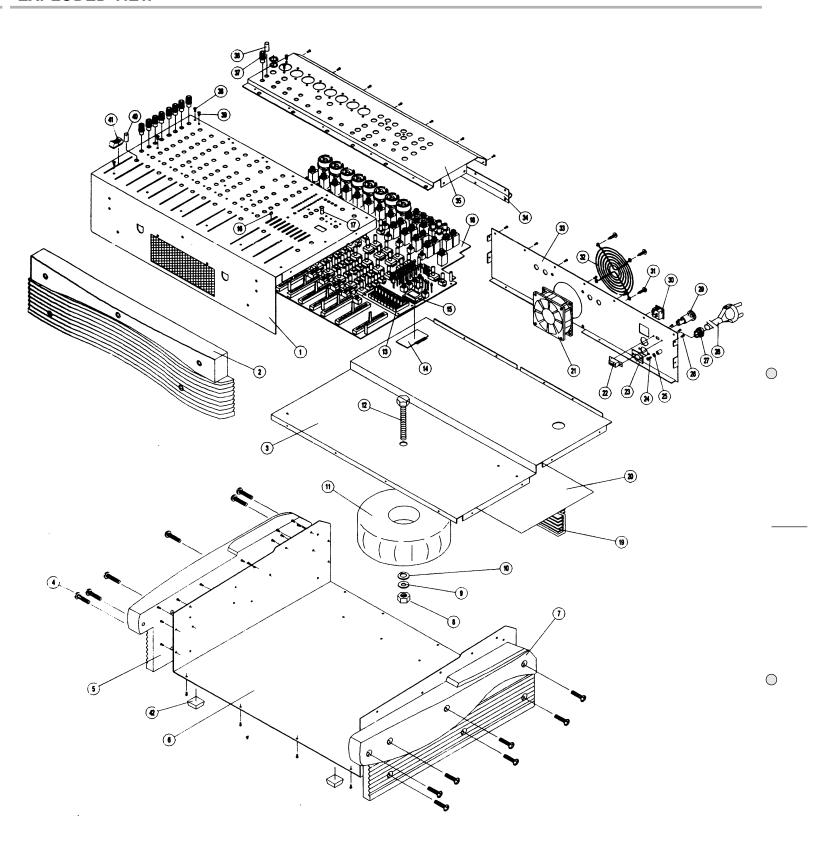
- 5- Female connector.
- Flag joined with one or more flags
- Chassis ground.

- M/F faston connector.
- with the same signal name inscribed. ATTENTION Observe precautions when handling electrostatic sensitive devices.
- Earth ground.

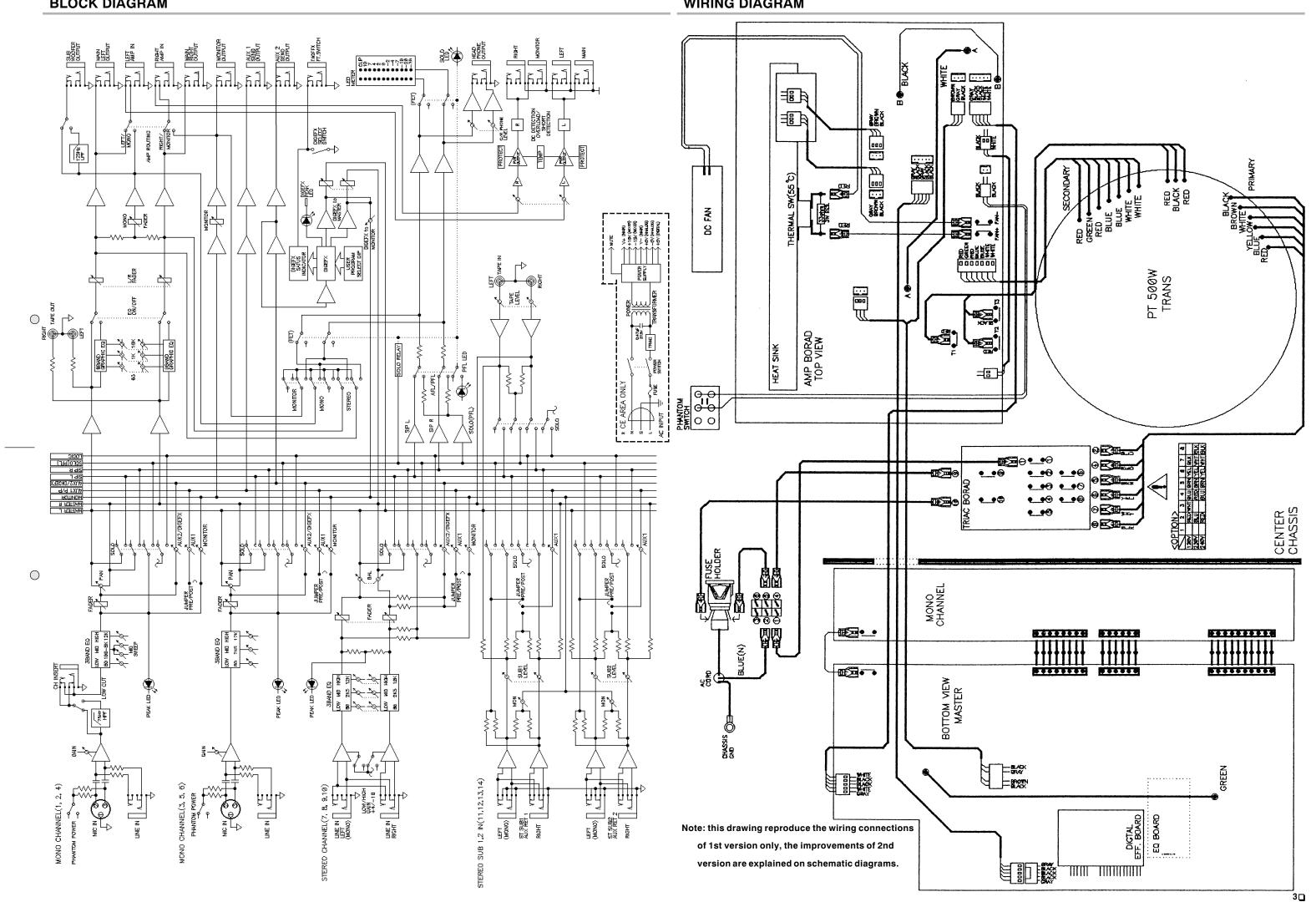


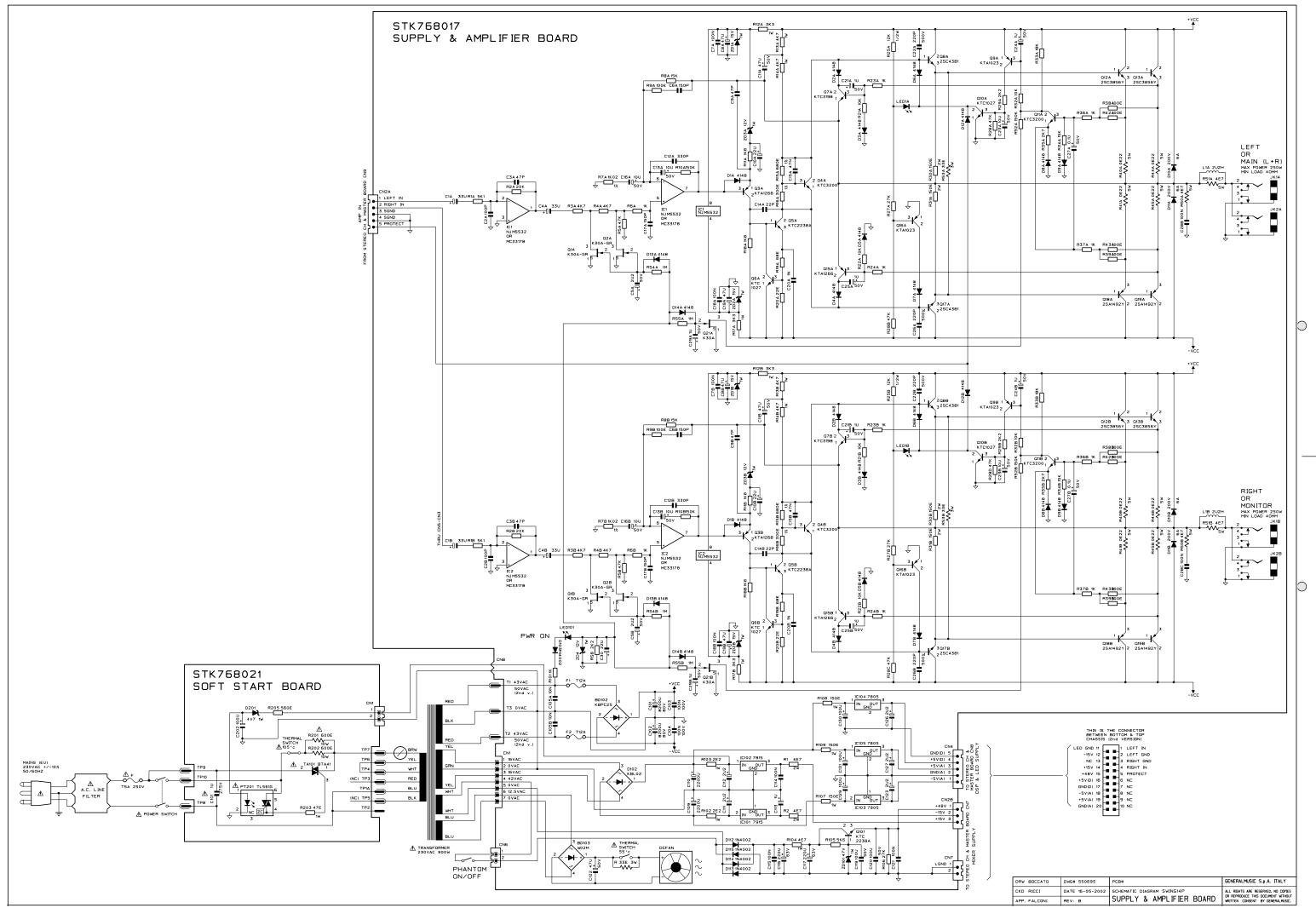
- GENERALMUSIC S.p.A. Sales Division: 47842 S.Giovanni in Marignano (RN) ITALY Via delle Rose, 12
- Phone +39(0)541/959511 · Fax +39(0)541/957404 · GENERALMUSIC on the NET: http://www.generalmusic.com

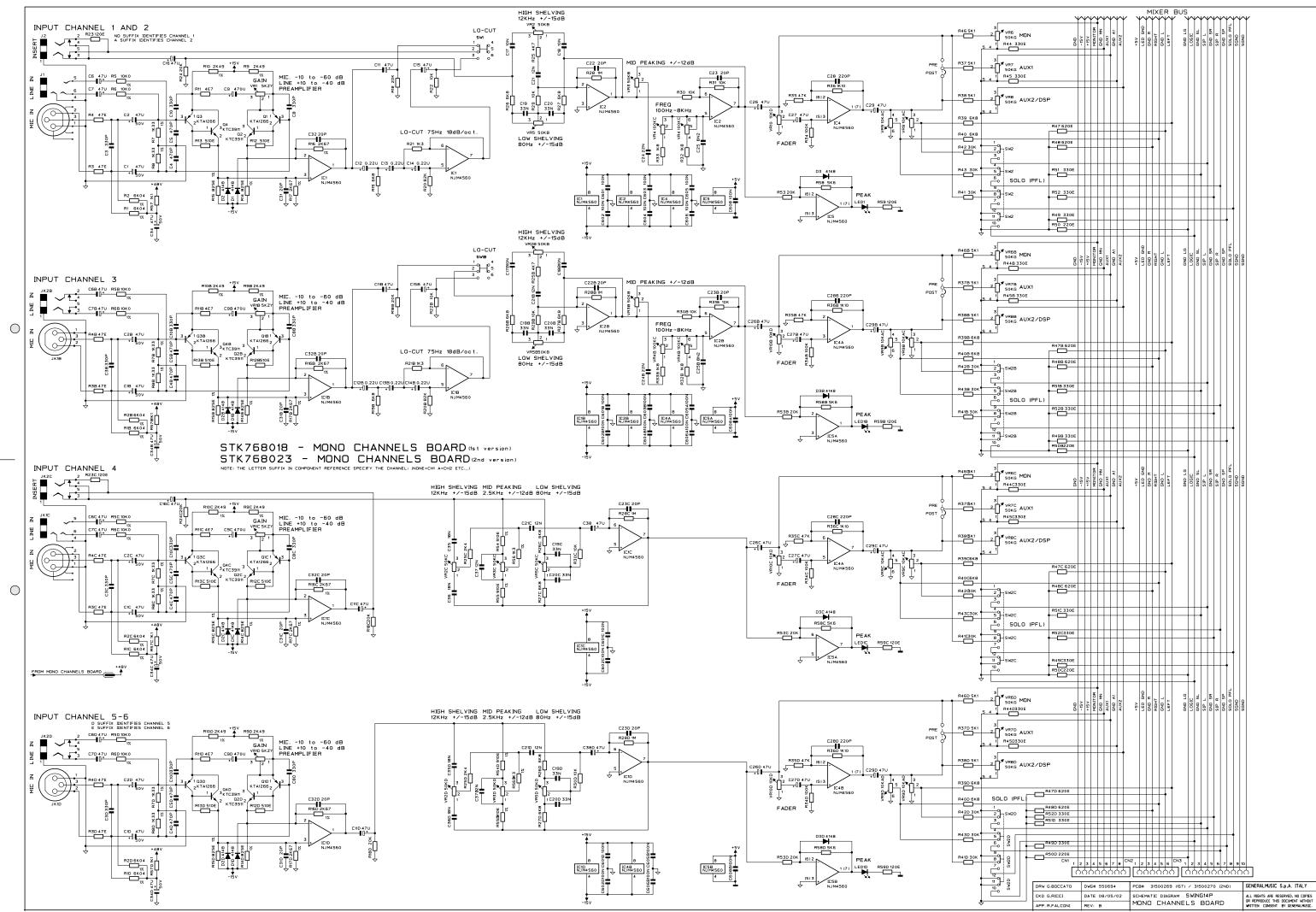
SV	VING 14	P TECHNICAL SPECIFICATIONS	
SECTION MONO INPUT CHANNEL		LEVELS & DATA	CONNECTORS
MIC input	•	from -10 to -60dB 4 kOhms	XLR-F balanced
LINE input	impedance	from +10 to -40dB 10 kOhms	JACK balanced
EQ	HIGH MID	75 Hz, 18 db/oct. (CH 1-3) -15dB, @ 12kHz SHELVING -15dB from 100 Hz to 8kHz PEAKING (CH 1-3) -15dB @ 2.5kHz PEAKING (CH 4-6) -15dB @ 80Hz, SHELVING	
INSERT (CH 1, 2 & 4) STEREO INPUT CHANNEL	sensitivity		Stereo JACK
LINE input		+4 / -10 dB 10 kOhms	JACK balanced
EQ	HIGH MID	–15dB, @ 12kHz SHELVING –15dB @ 2.5kHz PEAKING –15dB @ 80Hz, SHELVING	
MASTER SECTION		·	
MIX output		150 Ohms	JACK balanced
MONO output		150 Ohms	JACK balanced
MONITOR output		150 Ohms	JACK balanced
AUX sends		150 Ohms	JACK balanced
AUX inputs		10 kOhms	JACK balanced
AMP inputs		10 kOhms	JACK balanced
TAPE	OUT	-10dB -10dB	RCA phono
HEADPHONES	minimum impedance output level	1100 m///	Stereo JACK
DSP			
A/D converters		18	
D/A converters		18	
Internal dynamics	bit	18	
PRESETS number Effects		128 HALL REVERB, ROOM REVERB, PLATE REVERB, GATE REVERB, REVERSE REVERB, STEREO DELAY, MONO DELAY, CUSTOM DELAY	-
POWER AMPLIFIER			'
EIA output power (1 kHz, THD 1%)		250 + 250 W (1st version) 300+300 W (2nd version) 170 + 170 W (1st version) 195+195 W (2nd version)	2 x JACK
Harmonic distortion (THD)		<0.05% @ 1kHz	
PROTECTIONS		Short circuit, current limit, thermal protection, DC protection at speaker outputs, power ON/OFF transient	
GENERAL SPECIFICATION	S		
Frequency response Hum & Noise		20Hz - 20kHz, +1 / -2 dB -128dB Equivalent input noise -70dB Residual output noise (SP OUT)	
Crosstalk		-97dB Residual output noise (MIX OUT) 60dB @ 1kHz, adjacent channel inputs 60dB @ 1kHz, input to output	_
Power supply		see label on the apparatus	
Weight		18	
Dimensions	mm (VVXHXD)	462x405x140	

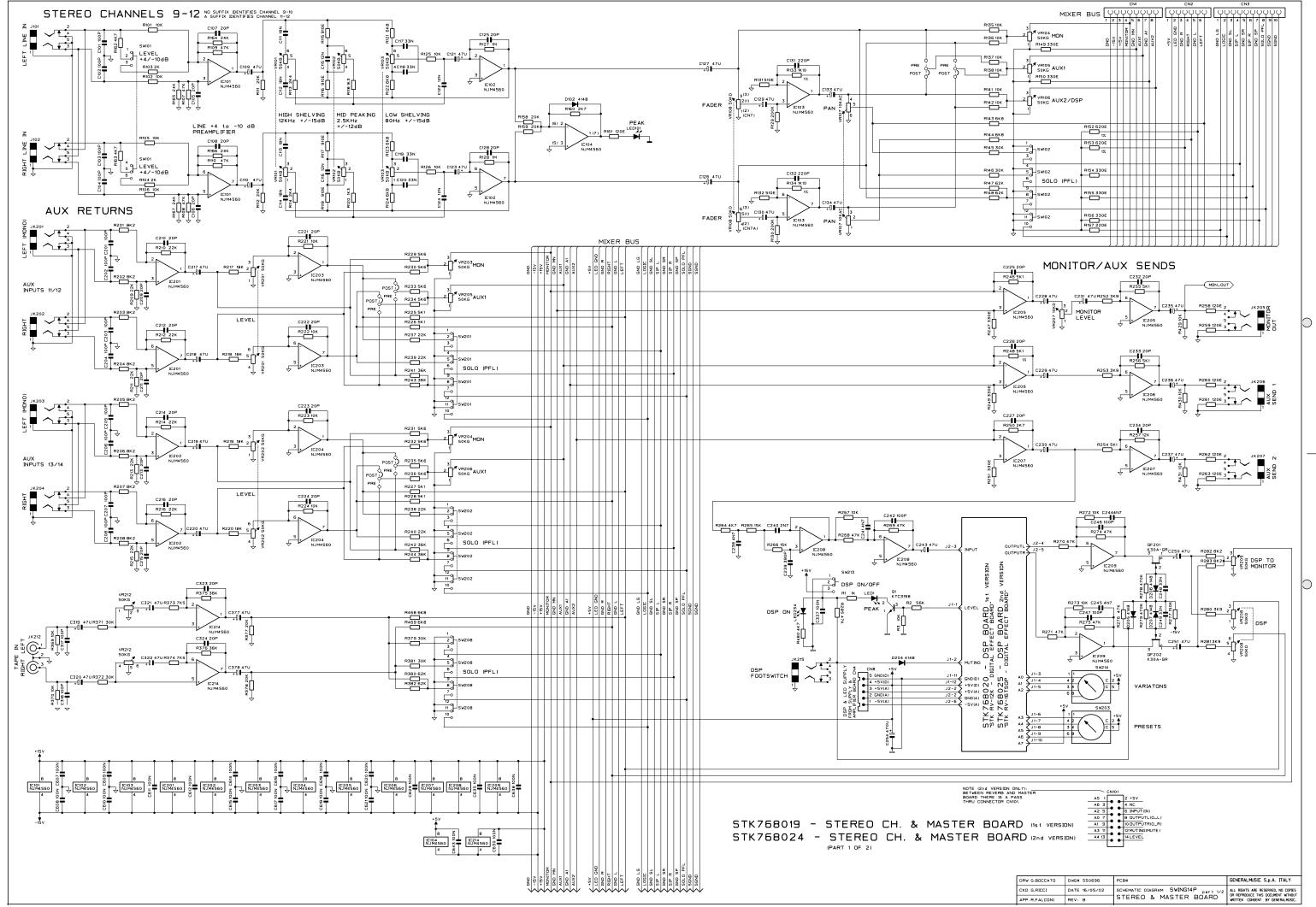


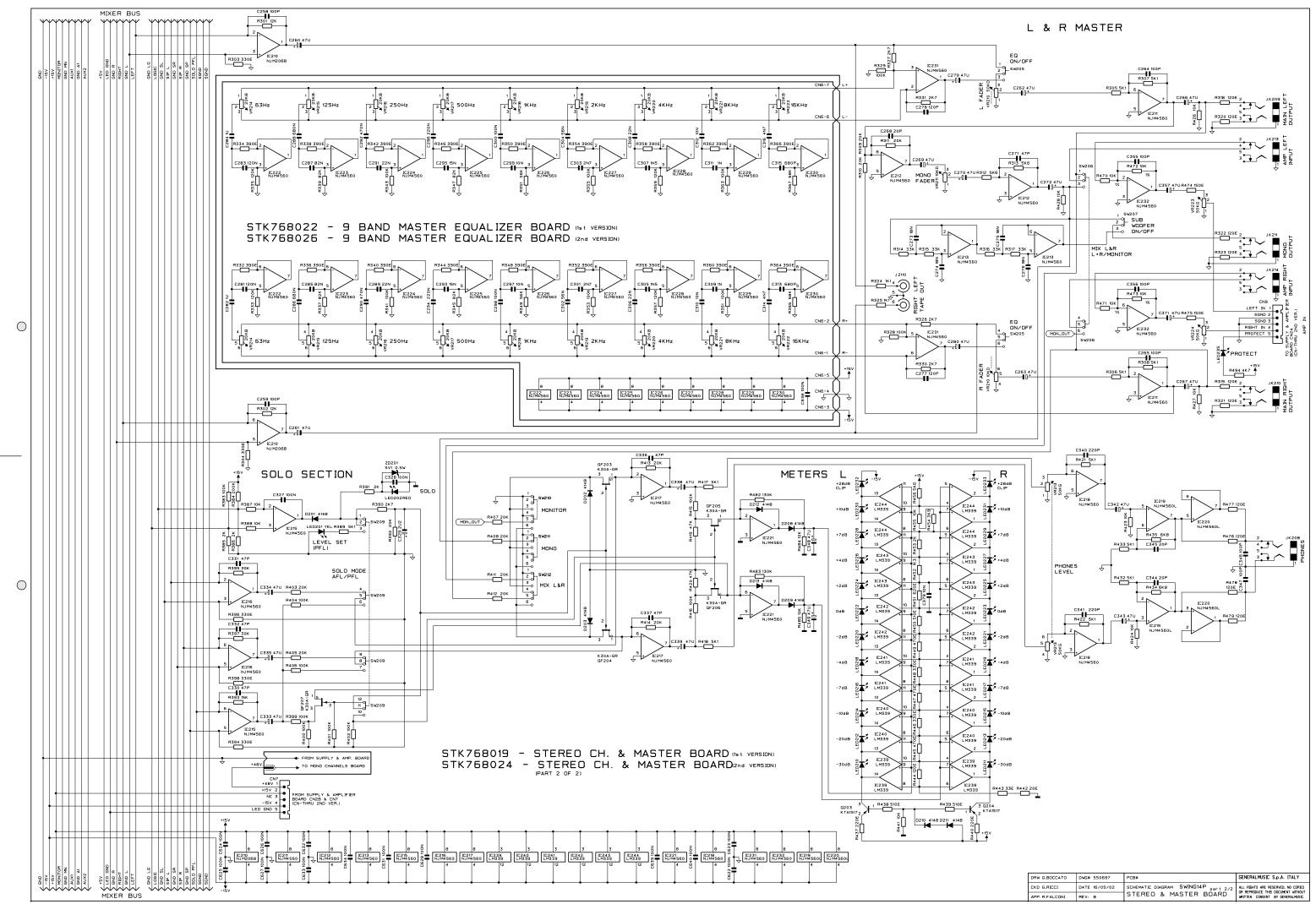
Note: this drawing reproduce themixer assembly of the 1st version only.











SWING14P Spare Part List

IMPORTANT NOTE:

On March 2002 SWING14P powered mixer had some improvements:

- 1) The Mono Channels, Stereo Channels & Master, DSP and Master Equalizer printed circuits have been redesigned.
- The Transformer secondary had a voltage improvement to deliver a greater power to the amplifier circuit

You may recognize them as follows:

The 1st version is 250+250W with the transformer mounted on top chassis.

The 2nd version is 300+300W with the transformer mounted on bottom chassis.

Ref Code Description

Accessories

277369 Swing14P Owner's Manual (English-Italian)

Mechanical Parts

		Mechanical Parts
6	STK667019	Bottom Chassis
1	STK667020	Top Chassis
2	STK340012	Front Board
5	STK340013	Left Board
7	STK340014	Right Board
42	STK340008	Adhesive Rubber Foot
36	STK340000	High Switch Actuator
40	STK340001	Low Switch Actuator
37	STK340002	Red Knob
37	STK340003	Blue Knob
37	STK340004	Gray Knob
37	STK340005	Yellow Knob
37	STK340006	White Knob
4	STK340007	White Knob for 60mm Slider Pot (Channels)
	STK340009	White Knob for Effects
16	STK340015	White Knob for 30mm Slider Pot (Master EQ)
21	STK110301	12Vdc 80x25mm Fan
	STK110000	55°c Normally Open Thermal Switch

Mains Assembly

11	STK238001	Toroidal Transformer (PT-500W) 230Vac/900W (2nd Version)
11	STK238000	Toroidal Transformer (PT-500W) 230Vac/900W (1st Version)
22	STK110203	Black Bipolar Switch
30	STK110205	4A 250Vac Bipolar Power Switch
	110020	T5A Fuse 5x20mm (EU)
29	STK110100	Fuse Hoder
27	STK340016	Cable Stopper
28	130306	Mains Cable (EU)

Soft Start Board

STK768021	Sof	t Start Board
STK110001	*	105°c Normally Closed Thermal Switch
STK100001	*	TL561G Photocoupler
STK090004	*	BTA41 TRIAC
STK020000	*	1uF 275Vac IEC/UL/CSA Capacitor
STK080221	*	4V7 1W 5% Zener Diode
STK061000	*	600E 10W 5% Wire Resistor

Amplifier & Supply Board

		~!·	iipiiilei & Suppiy Board
20	STK768017	Am	plifier & Supply Board
	STK030000	*	8200u 80V 20% Vert Electrolytic Capacitor
	STK030805	*	2200u 25V 20% Vert Electrolytic Capacitor
	STK100060	*	7815 +15V 1A Voltage Regulator
	STK100049	*	7915 -15V 1A Voltage Regulator
	STK100059	*	7805 +5V 1A Voltage Regulator
	STK100058	*	7905 -5V 1A Voltage Regulator
	STK100923	*	NJM5532A Dual LN Operational Amplifier
	STK090005	*	KTA1268GR TO92 LN Pnp Transistor
	STK090006	*	KTA1023Y TO92L Pnp Transistor
	STK090007	*	2SA1492Y TO3P Pnp Transistor
	STK090008	*	2SA1667Y TO220 Pnp Transistor
	STK090000	*	KTA1266Y TO92 LN Pnp Transistor
	STK090009	*	KTC3200GR TO92 LN Npn Transistor
	STK090010	*	KTC1027Y TO92L Npn Transistor
	STK090011	*	2SC3856Y TO3P Npn Transistor
	STK090012	*	2SC4381Y TO220 Npn Transistor
	STK090002	*	KTC2238AY Npn Transistor
	STK090013	*	KTC3198Y TO92 Pnp Transistor
	STK090001	*	2SK30AGR N-Channel J-Fet Transistor
	STK080700	*	3mm Diffused Red Led
	STK080701	*	3mm Diffused Green Led
	STK080000	*	6A 200V Rectifier Diode
	080103	*	1N4148 100mA 75V Signal Diode
	STK080156	*	1N4002 1A 100V Rectifier Diode
	080272	*	12V 1W 5% Zener Diode
	080293	*	15V 1W 5% Zener Diode
	STK080201	*	1N4756A 47V 1W 5% Zener Diode

	N/A	ana Channala Baard
110031	*	T12A Fuse 5x20mm (EU)
STK230000	*	2.2uH Coil For Amplifier
STK140002	*	Horizontal Jack Mono Female Socket
340079	*	TO220 Mica Washer
STK080608	*	KBPC3502 35A 200V Rectifier Diode Bridge
STK080168	*	W02M 1.5A Rectifier Diodes Bridge
STK080001	*	KBL103 Rectifier Diodes Bridge

Mono Channels Board

	Mono Chamiers Board		
18A STK768018	Mono Channels Board (1st Version)		
18A STK768023	Mono Channels Board (2nd Version)		
STK140000	* Vertical Jack Stereo Female Socket		
STK141000	* Vertical Female XLR Socket		
STK141001	* Vertical Female XLR-Jack Combo Socket		
STK075000	* 5KZY Rotary Potentiometer		
STK074000	* 50KB Rotary Potentiometer with Central Click		
STK074001	* 50KG Rotary Potentiometer with Central Click		
STK074005	* 100KC Rotary Potentiometer		
STK075002	* 10KA+10KC Rotary Potentiometer with Central Click		
STK073001	* 10KD 60mm Slider Potentiometer		
STK090000	* KTA1266Y TO92 LN Pnp Transistor		
STK091000	* KTC3911Y SOT23 LN Npn Transistor		
STK110200	* 4sw 2pos Vertical Slider Switch		
STK110201	* 2sw 2pos Vertical Slider Switch		
080103	* 1N4148 100mA 75V Signal Diode		
STK081000	* 1N4148 100mA 75V Signal Diode		
STK080700	* 3mm Diffused Red Led		
STK106000	* NJM4560M SOIC Dual Operational Amplifier		

Stereo Channels & Master Board

	51	ereo Channeis & Master Board
18B STK768019	Ste	ereo Channels & Master Board (1st Version)
18B STK768024	Ste	ereo Channels & Master Board (2nd Version)
STK140000	*	Vertical Jack Stereo Female Socket
STK140201	*	Vertical Rca Quad Female Socket
STK074001	*	50KG Rotary Potentiometer with Central Click
STK074003	*	2x50KG Rotary Potentiometer with Central Click
STK074004	*	2x50KB Rotary Potentiometer with Central Click
STK075002	*	10KA+10KC Rotary Potentiometer with Central Click
STK074006	*	50KG Rotary Potentiometer
STK073001	*	10KD 60mm Slider Potentiometer
STK073003	*	2x10KD 60mm Slider Potentiometer
STK073002	*	2x50KD 60mm Slider Potentiometer
STK091000	*	KTC3911Y SOT23 LN Npn Transistor
STK091001	*	KTC3911Y SOT23 LN Npn Transistor
STK090001	*	2SK30AGR TO92 LN N-Channel Jfet
STK110201	*	2sw 2pos Vertical Slider Switch
STK110200	*	4sw 2pos Vertical Slider Switch
STK110206	*	Rotary Encoder
STK080232	*	5V1 0.5W 5% Zener Diode
080103	*	1N4148 100mA 75V Signal Diode
STK081000	*	PMLL4148 Smd 100mA 75V Signal Diode
STK080700	*	3mm Diffused Red Led
STK080701	*	3mm Diffused Green Led
STK080702	*	3mm Diffused Yellow Led
STK080703	*	5mm Diffused Red Led
STK080704	*	5mm Flat Orange Led
STK080705	*	5mm Flat Red Led
STK080706	*	5mm Flat Green Led
STK106000	*	NJM4560M SOIC Dual Operational Amplifier
STK106001	*	NJM2068M SOIC LN Dual Operational Amplifier
STK106002	*	LM339 SOIC Quad Comparator
STK100000	*	NJM4560L SIP8 Dual Operational Amplifier

DSP Board

14	STK768020	DSP Board (1st Version)
14	STK768025	DSP Board (2nd Version)

Master Equalizer Board

13	STK768022	Master Equalizer Board (1st Version)
13	STK768026	Master Equalizer Board (2nd Version)
	STK106000	* NJM4560M SOIC Dual Operational Amplifier
	STK073004	* 2x20KB 30mm Slider Potentiometer with Central Click

Note:

-	Asterisk prefix	x explanation:
	Omitted	= First level spare part.
	One asterisk	= Second level, part of previous listed first level part.
	Two asterisk	= Third level, part of previous listed second level part.
	Three asterisl	ζ=
-	Any request fincluding:	or not above mentioned part must encompass specific description

1) Model name,

Each spare part is single quantity unless otherwise specified.

- 2) Section name,
- 3) Module code,
- 4) Reference name,
- 5) Quantity number.