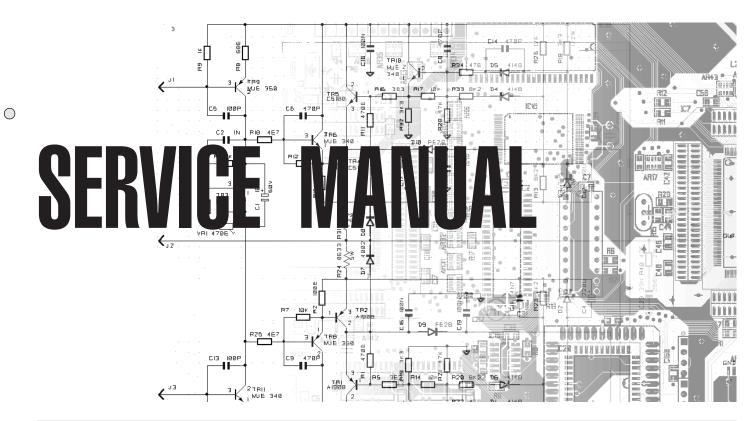
# SVING 12 12 INPUT MIC/LINE MIXER SVVING 16 16 INPUT MIC/LINE MIXER





**►** CODE: 270264

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SWING 12

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SWING 16

Technical Specifications

Block & Wiring Diagrams

Mono, Stereo & Aux Channels Schematic Diagram

Master Section Schematic Diagram

Spare Part List

# **Warnings**

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# 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  $(\boldsymbol{\mu})$  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.
- ♠ Supply voltage.
   Test point.

Logic supply ground.Analog supply ground.

5- Female connector.

M/F faston connector.

- - Flag joined with one or more flags
    - with the same signal name inscribed.
- ≟ Chassis ground.



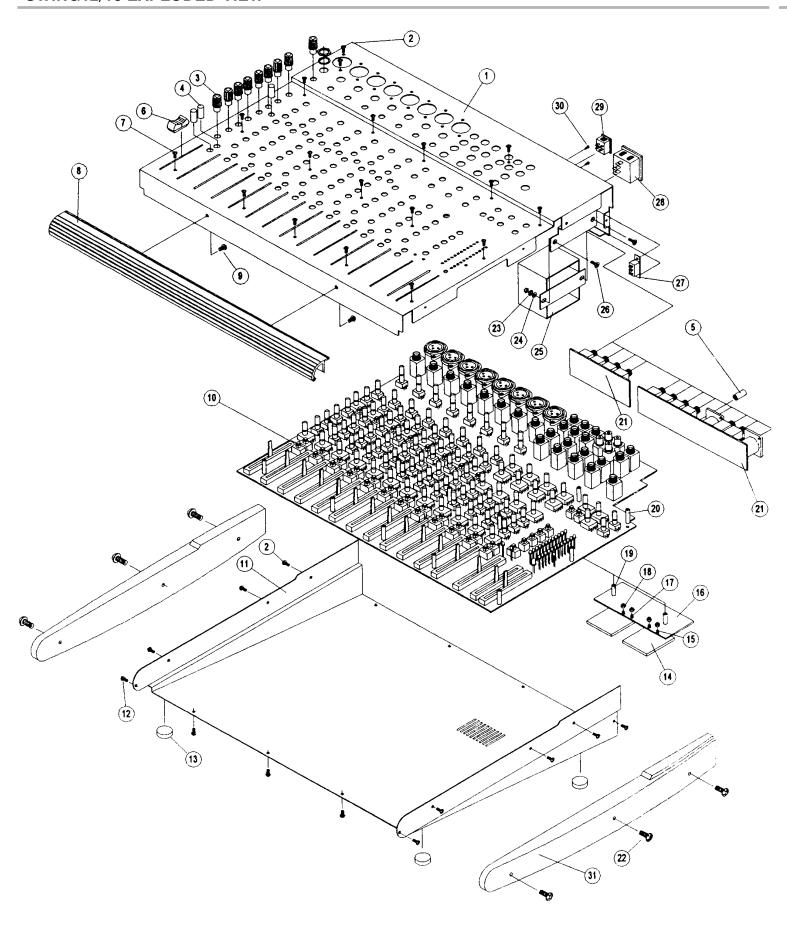
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**ATTENTION** Observe precautions when handling electrostatic sensitive devices.

# Address

GENERALMUSIC S.p.A. Sales Division: 47842 S.Giovanni in Marignano (RN) ITALY - Via delle Rose, 12

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

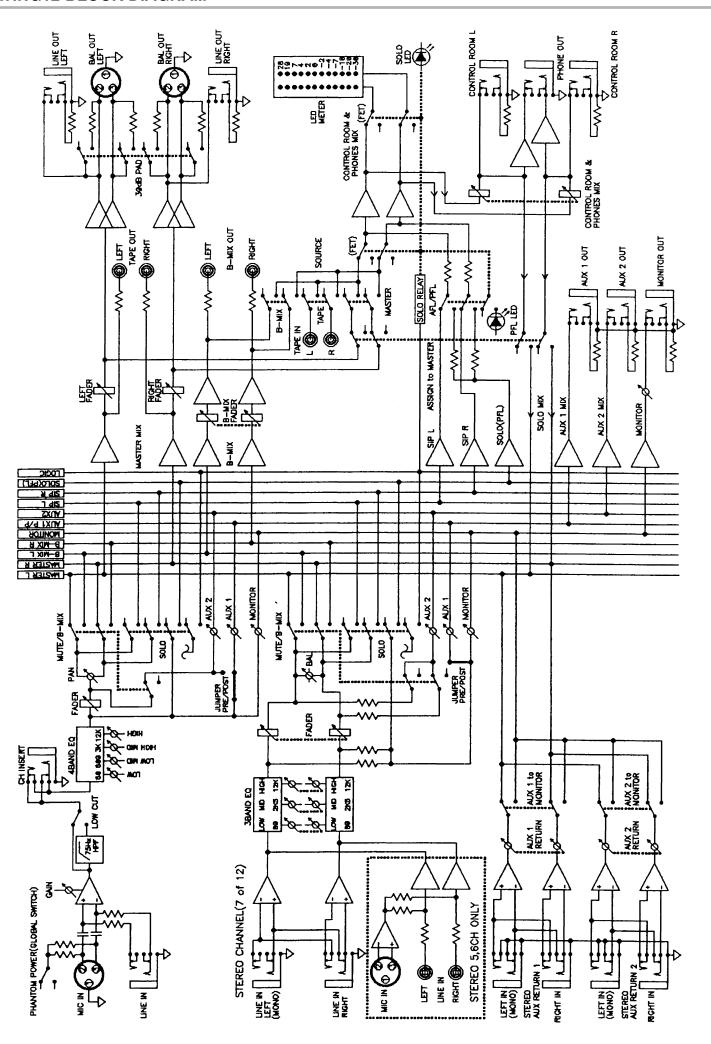


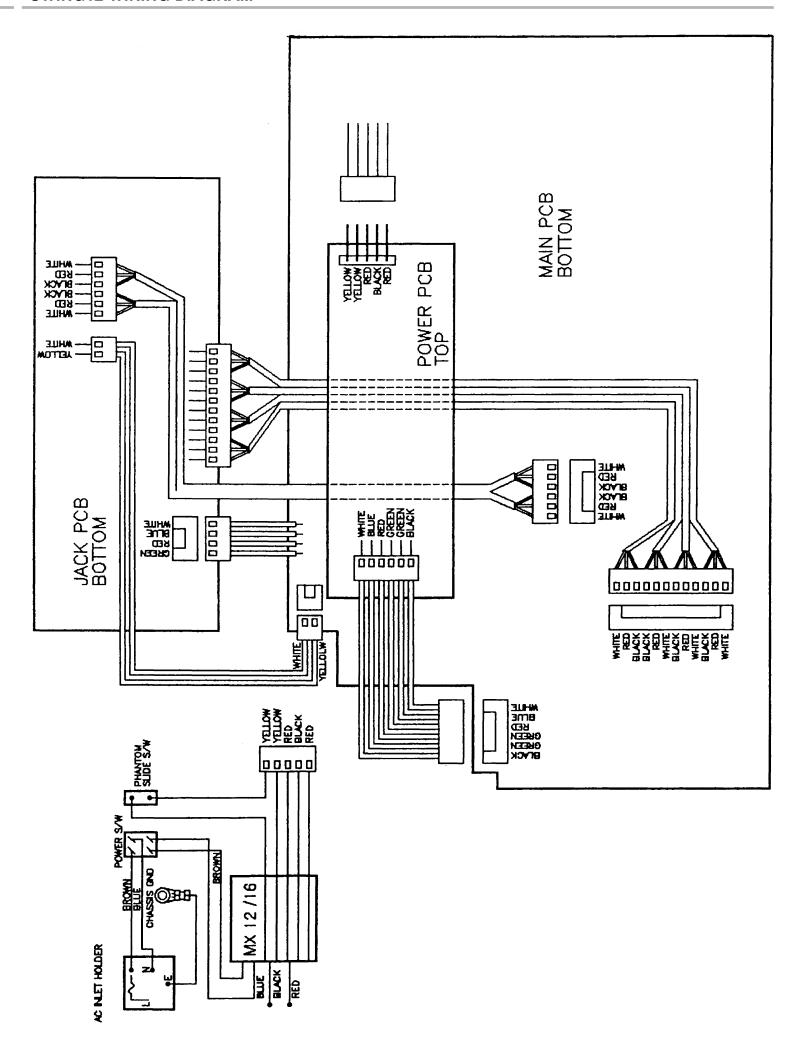
SWING	12 • TECHNIC	AL SPECIFICATION	S
SECTION		LEVELS & DATA	CONNECTORS
MONO INPUT CHANNEL			
MIC input	sensitivity	from -10 to -60dB	Balanced XLR-F
MIC input	impedance	1.3 kOhms	Balanced ALR-F
LINE input	sensitivity	from +10 to -40dB	Balanced JACK
LINE IIIput	impedance	10 kOhms	Dalanceu JACK
	HPF	75Hz, 18dB/oct.	
	•	±15dB @ 12kHz, SHELVING	
EQ	HI-MID	±12dB @ 3kHz, PEAKING	
	•	±12dB @ 800Hz, PEAKING	
	LOW	±15dB @ 80Hz, SHELVING	
STEREO INPUT CHANNEL			
STEREO LINE input	sensitivity		Balanced JACK
oot input		10 kOhms	Daidillood of tort
MIC input (ch 5/6)	sensitivity		Balanced XLR-F
wild input (GH 5/6)	impedance	1.3 kOhms	Dalancea ALICI
		±15dB @ 12kHz, SHELVING	
EQ		±12dB @ 2.5kHz, PEAKING	
	LOW	±15dB @ 80Hz, SHELVING	
MASTER SECTION			
MIX output (balanced)		+4dB /-26dB	Balanced XLR-M
MIX output (unbalanced)	output level		Unbalanced JACK
MIX B output	output level		RCA phono
CONTROL ROOM output	output level		Unbalanced JACK
MONITOR output	output level		Unbalanced JACK
AUX sends	output level		Unbalanced JACK
AUX return	sensitivity		Unbalanced JACK
TAPE		-10dB	RCA phono
17.11.2		+4dB	rtort priorio
HEADPHONES output	minimum impedance		Stereo JACK
·	output level	2x160mW	010100 071011
GENERAL SPECIFICATIONS			
Frequency response		20Hz - 60kHz, ±1dB	
Hum & Noise		-90dB	
THD		<0.005% @ 1kHz	
IMD		<0.005% @ 1kHz	
	FADER		
Crosstalk		-84dB	
	PAN	-85dB	
	MIC IN	+14dBu	
<b>.</b>		+16dBu	
Maximum levels	other outputs		
	MIX OUT (XLR)	+28dBu	
	other outputs		
Power supply		see label on the apparatus	
Weight		4.5	
Dimensions	mm (WxHxD)	305x72x354	

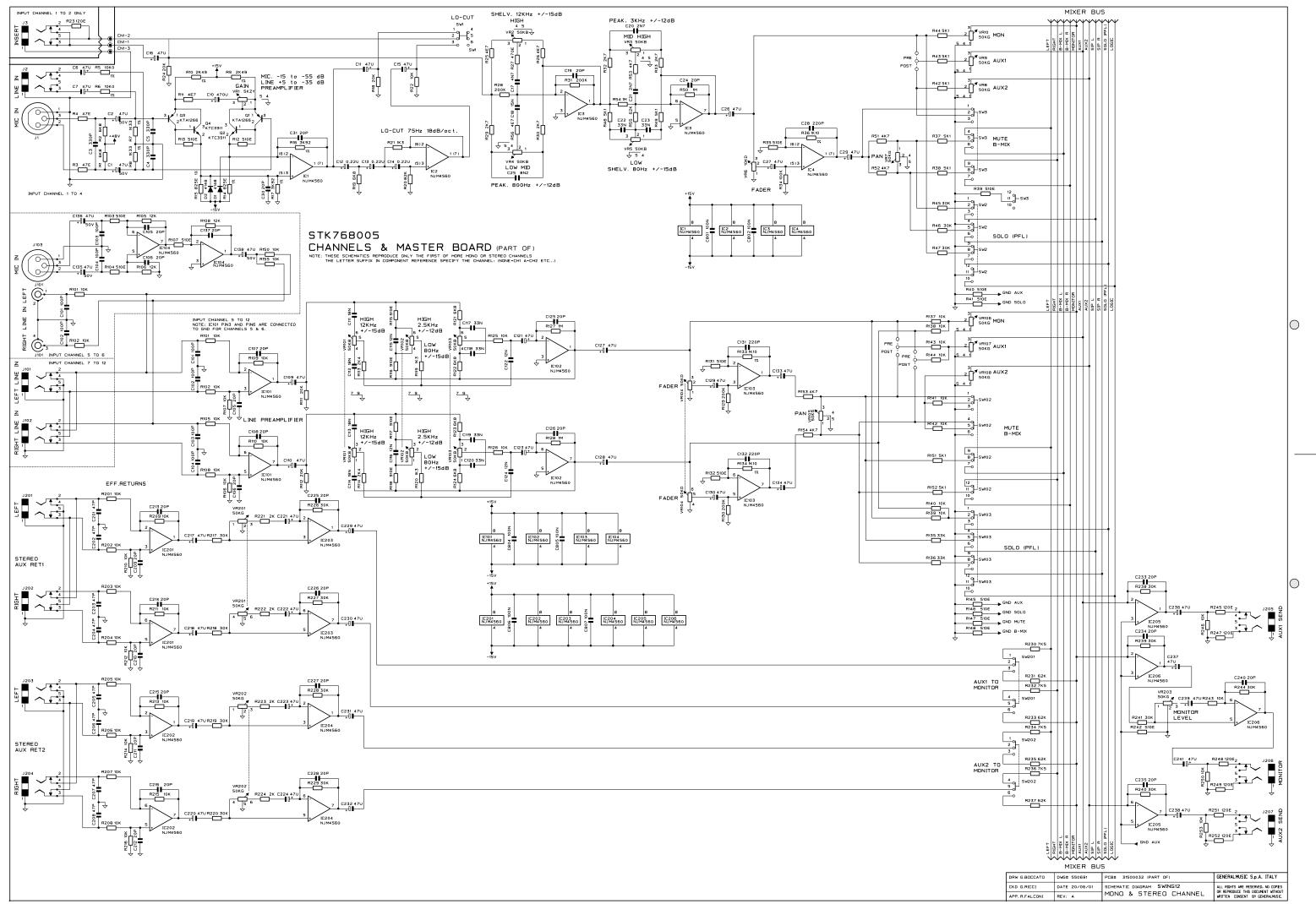
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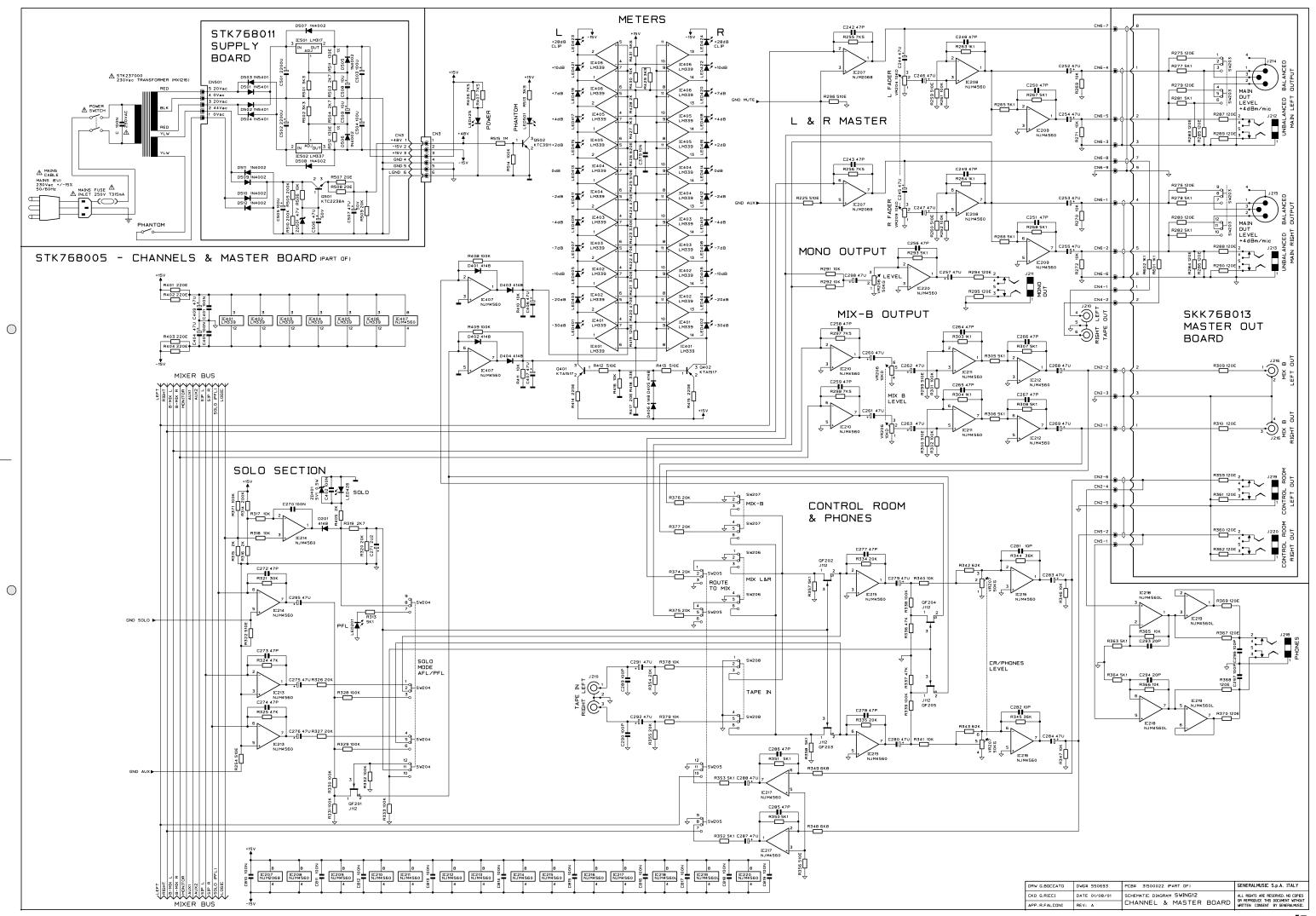
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Code	Ref	Description	
		Accessories	
277360		Owner's Manual (English-Italian)	
130297		Mains Cable (EU)	
951335		SWR12 Rack Adaptor	
		Mechanical Parts	
STK667001	11	Bottom Chassis	
STK667000	1	Top Chassis	
STK667017	8	Front Bar	
STK340010	13	Adhesive Rubber Foot	
STK340000	5	High Switch Actuator	
STK340001	4	Switch Actuator	
STK340002	ЗА	Red Knob	
STK340003	3B	Blue Knob	
STK340004	зС	Gray Knob	
STK340005	3D	Yellow Knob	
STK340006	3E	White Knob	
STK340007	6	Slider Knob for 60mm Slider Pot	
		Mains Assembly	
STK110600	10	Mains Inlet with 5x20mm Fuse Holder	
110008		T315mA Fuse 5x20mm (EU)	
STK110285	9	4A 250Vac Bipolar Power Switch	
STK110203	12	Black Bipolar Switch	
STK237000	17	Shielded Transformer (MX1216) 230Vac/20+20/44Vac	
		Supply Board	
STK768011	14	Supply Board	
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	
STK090002		* KTC2238AY Npn Transistor	
340079		* TO220 Mica Washer	
STK080156		* 1N4002 1A 100V Rectifier Diode	
STK080201		* 1N4756A 47V 1W 5% Zener Diode	
		Channels & Master Board	
STK768005		Channels & Master Board	
STK140000		* Vertical Jack Stereo Female Socket	
STK141000		* Vertical Female XLR Socket	
STK140201		* Vertical Rca Quad Female Socket	
STK075000		* 5KZY Rotary Potentiometer	
STK074000		* 50KB Rotary Potentiometer with Central Click	
STK074001		* 50KG Rotary Potentiometer with Central Click	
STK074003		* 2x50KG Rotary Potentiometer with Central Click	
		* 2x50KB Rotary Potentiometer with Central Click	

	Channels & Master Board
STK768005	Channels & Master Board
STK140000	* Vertical Jack Stereo Female Socket
STK141000	* Vertical Female XLR Socket
STK140201	Vertical Rca Quad Female Socket
STK075000	* 5KZY Rotary Potentiometer
STK074000	* 50KB Rotary Potentiometer with Central Click
STK074001	* 50KG Rotary Potentiometer with Central Click
STK074003	* 2x50KG Rotary Potentiometer with Central Click
STK074004	* 2x50KB Rotary Potentiometer with Central Click
STK073001	* 10KD 60mm Slider Potentiometer
STK073002	* 2x50KD 60mm Slider Potentiometer
STK073003	* 2x10KD 60mm Slider Potentiometer
STK090000	* KTA1266Y TO92 LN Pnp Transistor
STK091000	* KTC3911Y SOT23 LN Npn Transistor
STK090003	* J112 TO92 N-Channel JFET
STK110200	* 4sw 2pos Vertical Slider Switch
STK110201	* 2sw 2pos Vertical Slider Switch
STK081000	* 1N4148 100mA 75V Signal Diode
STK080232	* 5V1 0.5W 5% Zener Diode
STK081000	* 1N4148 100mA 75V Signal Diode
STK080700	* 3mm Diffused Red Led
STK080701	* 3mm Diffused Green Led
STK080702	* 3mm Diffused Yellow Led
STK080703	* 5mm Diffused Red Led
STK106000	* NJM4560M SOIC Dual Operational Amplifier
STK106001	* NJM2068M SOIC LN Dual Operational Amplifier
STK106002	* LM339 SOIC Quad Comparator
	* NJM4560L SIP8 Dual Operational Amplifier

		Master Out Board
STK768013	21	Master Out Board
STK140000		* Vertical Jack Stereo Female Socket
STK141002		* Vertical Male XLR Socket
STK140200		* Vertical Rca Stereo Female Socket
STK110200		* 4sw 2pos Vertical Slider Switch
STK106000		* MC4560M SOIC Dual Operational Amplifier

## --- Note:

- All dimensions are in mm unless otherwise specified. Each spare part is single quantity unless otherwise specified.
   Asterisk prefix 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 asterisk = ..... Three asterisk = ..........

  - Any request for not above mentioned part must encompass specific description including:
  - 1) Model name,
  - 2) Section name,
  - 3) Module code,
  - 4) Reference name,
  - 5) Quantity number.

## **SWING16 TECHNICAL SPECIFICATIONS**

<b>SWING 16 • TECHNICAL SPECIFICATIONS</b>						
SECTION		LEVELS & DATA	CONNECTORS			
MONO INPUT CHANNEL						
MIC input	1	from -10 to -60dB	Balanced XLR-F			
		1.3 kOhms	Balarioca ALICI			
LINE input	· · · · · · · · · · · · · · · · · · ·	from +10 to -40dB	Balanced JACK			
		10 kOhms	Baidi1000 07 (01)			
		75Hz, 18dB/oct				
		±15dB @ 12kHz, SHELVING				
EQ		±12dB @ 3kHz, PEAKING				
		±12dB @ 800Hz, PEAKING				
	LOW	±15dB @ 80Hz, SHELVING				
STEREO INPUT CHANNEL						
STEREO LINE input	sensitivity		Balanced JACK			
•		10 kOhms				
		±15dB @ 12kHz, SHELVING				
EQ		±12dB @ 2.5kHz, PEAKING				
	LOW	±15dB @ 80Hz, SHELVING				
MASTER SECTION	<u> </u>	I 4 ID / 00 ID	In a symmetric			
MIX output (balanced)		+4dB /-26dB	Balanced XLR-N			
MIX output (unbalanced)	output level		Unbalanced JA(			
MIX B output	output level		RCA phono			
MONO output	output level		Bnbalanced JAC			
CONTROL ROOM output	output level		Unbalanced JA(			
MONITOR output	output level		Unbalanced JA(			
AUX sends	output level		Unbalanced JA(			
AUX return	sensitivity		Unbalanced JA0			
TAPE		-10dB	RCA phono			
		+4dB				
HEADPHONES output	minimum impedance		Stereo JACK			
OFNEDAL ODEOLEICATIONS	output level	2x160mW				
GENERAL SPECIFICATIONS		2011- 6041- 140				
Frequency response		20Hz - 60kHz, ±1dB -90dB				
Hum & Noise						
THD IMD		<0.005% @ 1kHz <0.005% @ 1kHz				
טואוו	515-5					
Crosstalk		-85dB -84dB				
Oiossiain		-85dB				
		+14dBu				
	MIC IN	+16dBu				
Maximum levels	IAPE IN other outputs					
WIGAIITIUITI IGVGIS	MIX OUT (XLR)	1.004D11				
	other outputs	1-204BH				
Power supply	,	see label on the apparatus				
Weight	ka	5.5				
Dimensions		411x72x354				

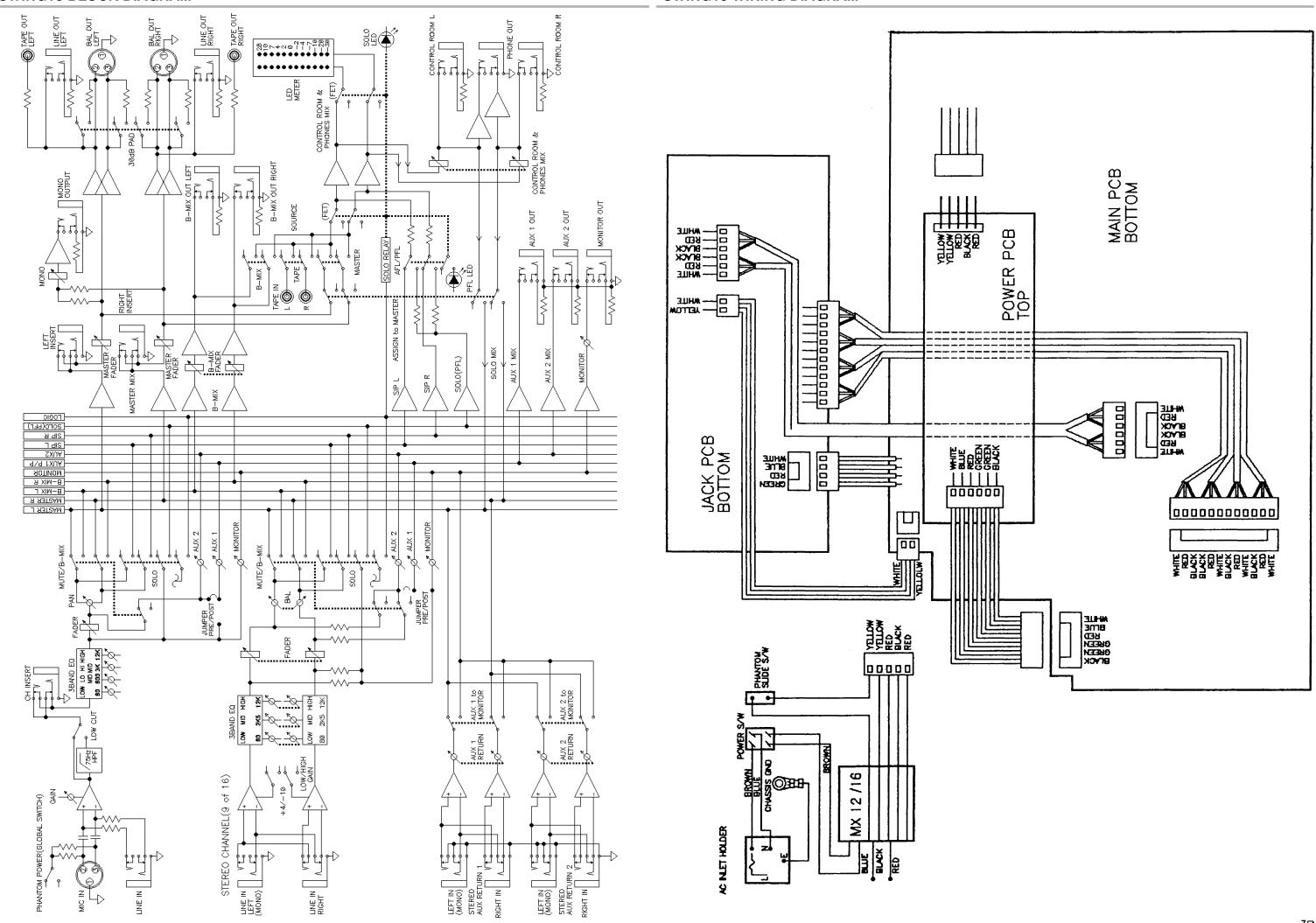
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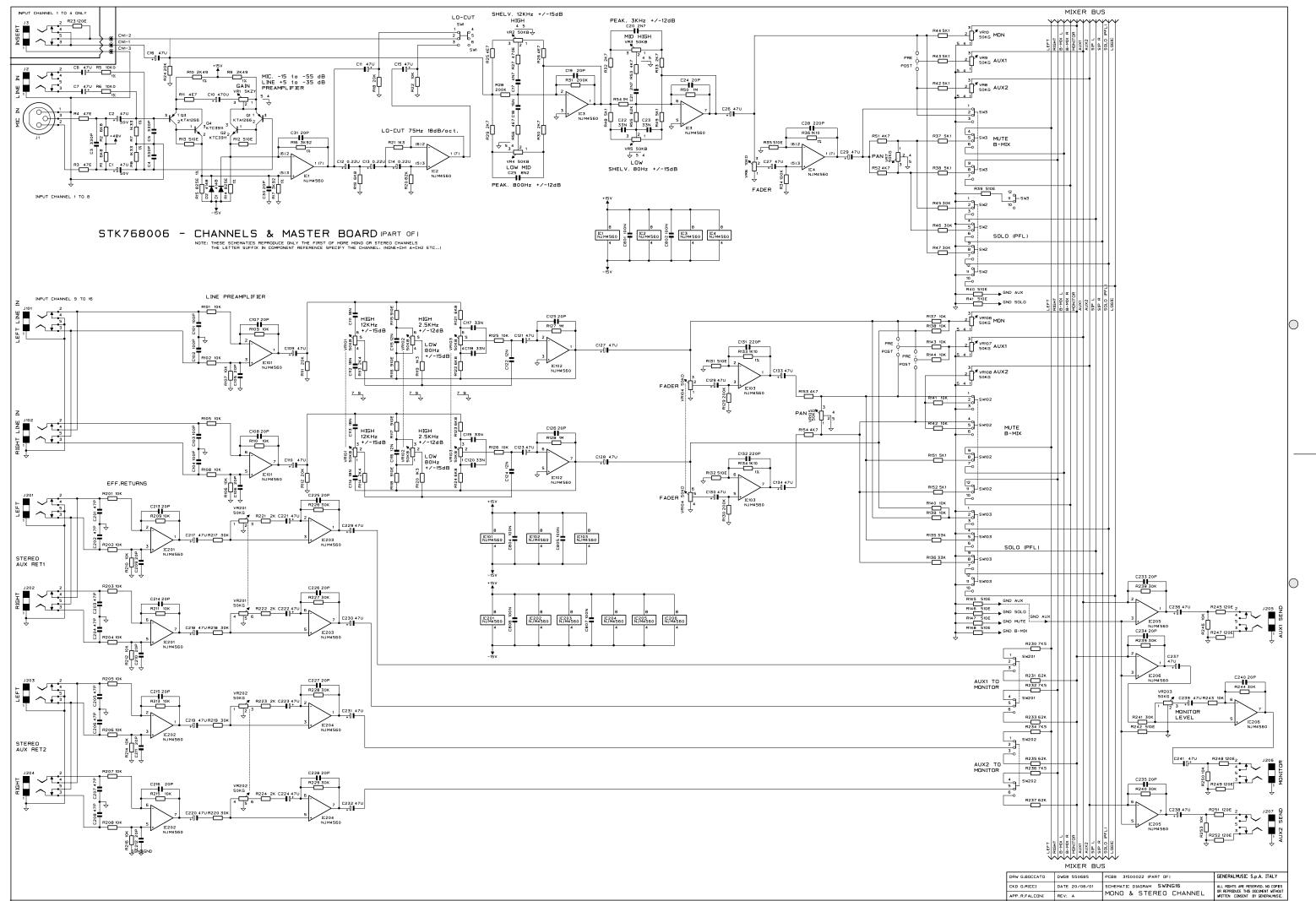
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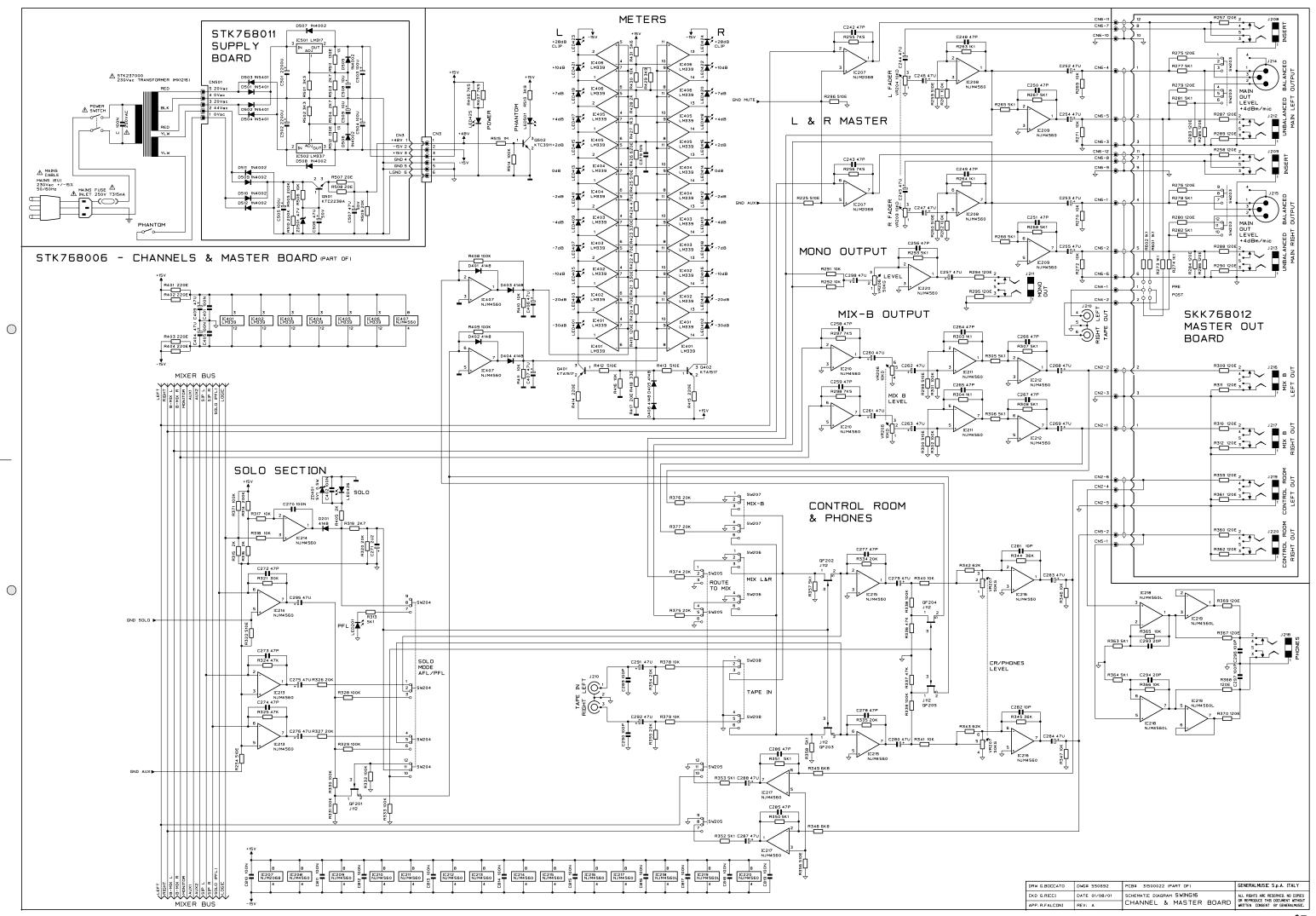
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### **SWING16 - SPARE PART LIST** Ref Description Accessories 277360 Swing12-16 Owner's Manual (English-Italian) 130297 Mains Cable (EU) 951336 SWR16 Rack Adaptor **Mechanical Parts** STK667003 11 Bottom Chassis STK667002 1 Top Chassis STK667018 8 Front Bar STK340010 13 Adhesive Rubber Foot STK340000 5 High Switch Actuator STK340001 4 Switch Actuator STK340002 3A Red Knob STK340003 3B Blue Knob STK340004 3C Gray Knob STK340005 3D Yellow Knob STK340006 3E White Knob STK340007 6 Slider Knob for 60mm Slider Pot Mains Assembly STK110600 10 Mains Inlet with 5x20mm Fuse Holder 110008 T315mA Fuse 5x20mm (EU) STK110285 9 4A 250Vac Bipolar Power Switch STK110203 12 Black Bipolar Switch STK237000 17 Shielded Transformer (MX1216) 230Vac/20+20/44Vac Supply Board STK768011 14 Supply Board 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 \* KTC2238AY Npn Transistor STK090002 TO220 Mica Washer 340079 \* 1N4002 1A 100V Rectifier Diode STK080156 \* 1N4756A 47V 1W 5% Zener Diode **Channels & Master Board** STK768006 10 Channels & Master Board STK140000 \* Vertical Jack Stereo Female Socket STK141000 \* Vertical Female XLR Socket STK140201 Vertical Rca Quad Female Socket \* 5KZY Rotary Potentiometer STK075000 STK074000 50KB Rotary Potentiometer with Central Click STK074001 50KG Rotary Potentiometer with Central Click STK074003 \* 2x50KG Rotary Potentiometer with Central Click STK074004 2x50KB Rotary Potentiometer with Central Click STK073001 10KD 60mm Slider Potentiometer \* 2x50KD 60mm Slider Potentiometer STK073002 \* KTA1266Y TO92 LN Pnp Transistor STK090000 \* KTC3911Y SOT23 LN Npn Transistor STK090003 J112 TO92 N-Channel JFET \* 4sw 2pos Vertical Slider Switch STK110200 \* 2sw 2pos Vertical Slider Switch STK110201 STK081000 PMLL4148 Smd 100mA 75V Signal Diode STK080232 \* 5V1 0.5W 5% Zener Diode STK080700 3mm Diffused Red Led \* 3mm Diffused Green Led STK080701 \* 3mm Diffused Yellow Led STK080702 STK080703 5mm Diffused Red Led STK106000 NJM4560M SOIC Dual Operational Amplifier NJM2068M SOIC LN Dual Operational Amplifier STK106001 \* LM339 SOIC Quad Comparator STK106002 STK100000 \* NJM4560L SIP8 Dual Operational Amplifier STK140201 \* Vertical Rca Quad Female Socket **Master Out Board** STK768012 21 Master Out Board Note: STK140000 \* Vertical Jack Stereo Female Socket Vertical Male XLR Socket All dimensions are in mm unless otherwise specified. 4sw 2pos Vertical Slider Switch STK110200 Each spare part is single quantity unless otherwise specified \* MC4560M SOIC Dual Operational Amplifier Asterisk prefix explanation: STK106000 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 asterisk = .... Any request for not above mentioned part must encompass specific description including: 1) Model name, 2) Section name, 3) Module code, 4) Reference name. 5) Quantity number.