GENERALMUSIC®

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ACTIVE

▲ CODE: 270218 **▼**

Second Edition The property of the property o

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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 (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 $1/8\Omega$ unless otherwise specified.

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

 $\leftarrow \ \, \text{Soldering point}.$

Supply voltage.Test point.

▲ Logic supply ground.

Male connector.Female connector.

Flag joined with one or more flags

▲ Analog supply ground.

M/F faston connector.

with the same signal name inscribed.

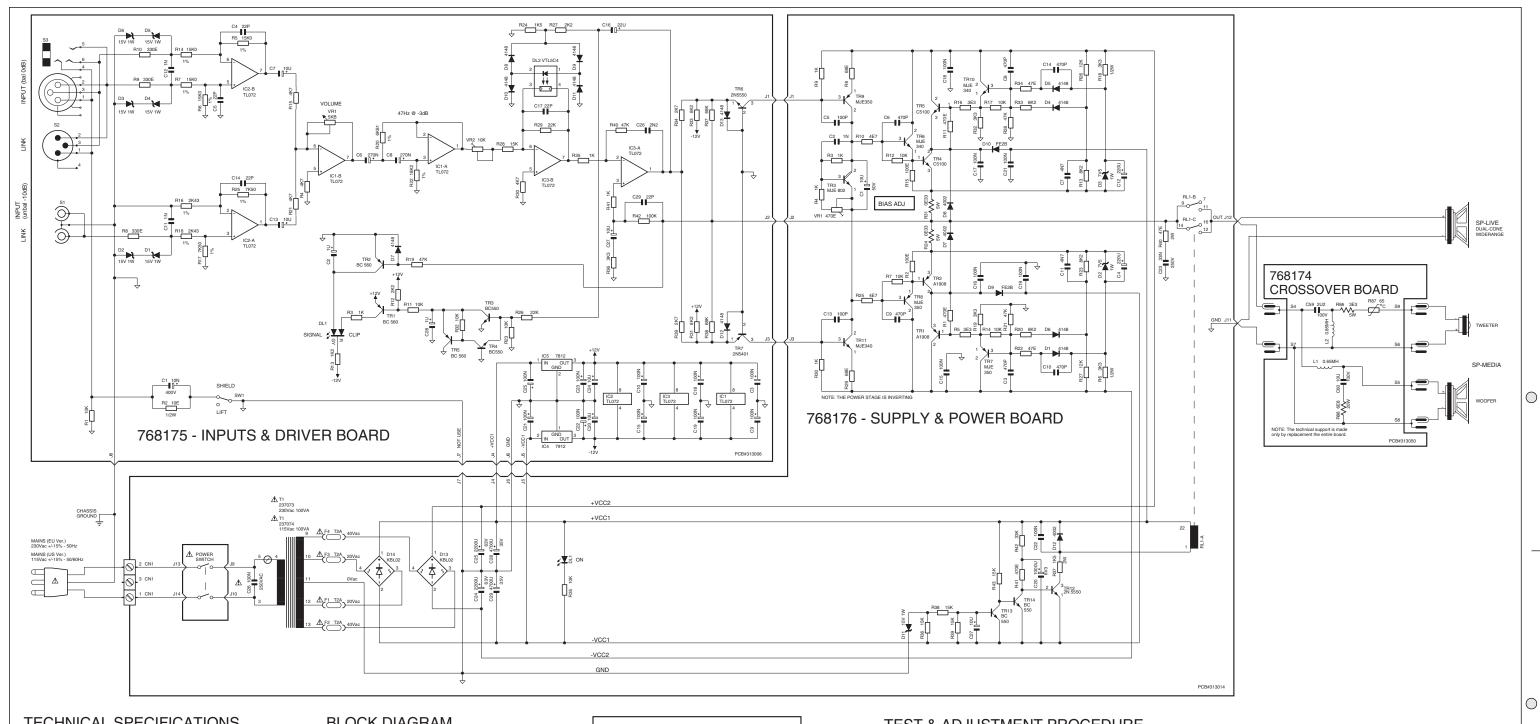


Observe precautions when handling electrostatic sensitive devices.

Address

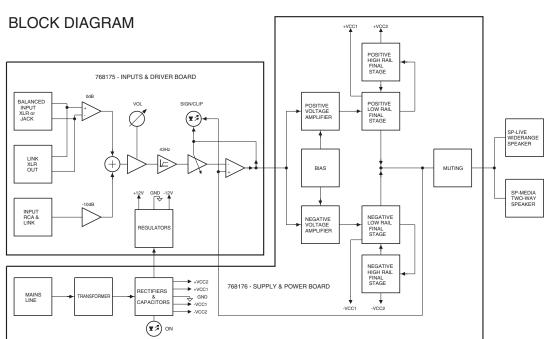


GENERALMUSIC S.p.A. Sales Division: 47842 S.Giovanni in Marignano (RN) ITALY – Via delle Rose, 12 – tel. 0541/959511 – fax 0541/957404 GENERALMUSIC on the NET: http://www.generalmusic.com



TECHNICAL SPECIFICATIONS

0	
Power (Wrms)	90
Distortion (THD+N)	less than 0.1%
XLR Input Impedance (ohm)	30K (balanced) 15K (unbalanced)
XLR Input Sensitivity (dB)	0 (0.775Vrms)
RCA Input Impedance (ohm)	10K (unbalanced)
RCA Input Sensitivity (dB)	-10dB (0.245Vrms)
Sensitivity (dBspl 1W/1mt)	95 (Media) 91 (Live)
Max Sensitivity (dBspl)	119 (Media) 115 (Live)
Frequency Response (Hz -6dB)	85-20000 (Media) 70-20000 (Live)
Crossover Frequency (Hz)	3.2KHz @ 12dB/oct. (Media)
Speakers	Live: 1x6 1/2"widerange (Live) Media: 1x1"tweeter with EWT horn



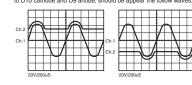
TEST & ADJUSTMENT PROCEDURE

Instruments, materials and tools:
- Audio generator
- Dual trace oscilloscope (Earth lift)
- Digital voltmeter or multimeter
- 8E 100W Resistor
- Variac (0-250/ac)
- Temperature Meter

- Setup:
- Settup:

 Connect the Mains plug to the Variac
 Connect the Mains plug to the Variac
 Connect the Audio generator to the input and set it to 1KHz sinus signal
 Connect the Ch.1 oscilloscope probe on the output (R40 side RL1) and set it at 20V/div 200uS/div
 Turn the trimmer VR1 on Power Board full counterclockwise (from solder side)
 Place the temperature sensor on the heatish k near a final transistor
 Insert the VOItmeet retiminals across R24 (or alternatively R31)
 Put the VOL potentiometer at maximum level

- Test Procedure:
 1) Turn on the amplifier
- 1) full of the arriphiles 2) Set the input signal to obtain 0dB (0.775Vrms) or -10dB (0.245Vrms) to the appropriate input.
 3) increase slowly the Variac to the nominal value of 230Vac and check if the output appear correctly, the value must be 43Vp. eventually regulate the level adjusting VR2 trimmer.
 4) Check if the high rails operates correctly connecting the Ch.2 oscilloscope probe alternatively

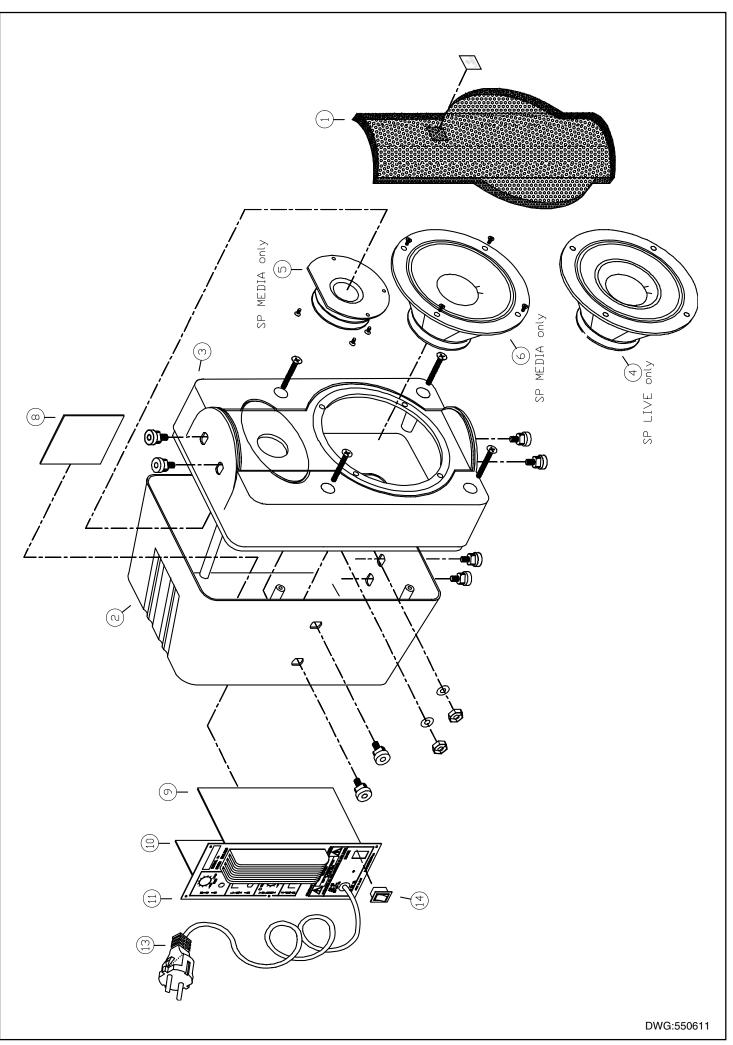


Set the Variac to 0, connect the 8E 100W resistor to the amplifier output instead of the speaker or x-over, check again if the amplifier operates correctly as specified at points 3 and 4 but with the level reduced to 38+/-0,7Vp.

Adjustment procedure:

- 6) Leaving the amplifier operate, wait until the temperature reaches 50 c, Set the input signal to 0 and wait some seconds to stabilize the temperature, adjust the VR1 trimmer to obtain 10+/-0.05mV on the Voltmeter.
- 7) Increase the input level to obtain an output voltage about of 0.5Vpp, check if don't appear r) murease the input level to outsill an output voltage about of 0.5 Vpp, check it don't appear a cross-talk distortion, eventually slightly adjust the VR1 position until distortion disappear 8) The voltage value across R24 (or R31) resistor must not exceed 15mV 9) Re-connect the speaker instead of the 8E 100W resistor

DRW Battelli	DWG# 550607	PCB# 313050/313006/313014	GENERALMUSIC S.p.A. ITALY
CKD Ricci	DSK# PART: 1/1	SCHEMATIC DIAGRAM	ALL RIGHTS ARE RESERVED, NO COPIES OR REPRODUCE THIS DOCUMENT WITHOUT
APP. Zuccatti	REV: 02/03/98	Sound Pressure Media & Live	WRITTEN CONSENT BY GENERALMUSIC.



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	Legend		
EU		pecify Europe Version (230Vac)	
US		pecify US Version (115Vac)	
SPLive		pecify Live Version	
SPMedia		pecify Media Version	
		,	
Ref.	Code	Description	
	Optio	nal Accessories	
	951126	SC80 Flange for Telescopic stand and TOTEM system	_
	951127	SC81 Male Flange	
	951128	SC82 Female Flange	
	951131	SC85 TOTEM System Support	
	950978	SC31 Telescopic Stand	
	950444	SC61 Microphone Stand Adaptor	
	950445	SC62 Wall Mounting Support	
	950446	SC63 Table Fixing Clamp	
	951125	SC64T-Stand	
	Acces	ssories	
	277326	Owner's Manual	_
1	Cabin 667662	et Assembly SpeakerNet	_
1	667659	Speaker Net Threaded Fixing for External Supports	
2	657257	Rear Shell	
3	657255	Front Panel (SPLive)	
3	657544	Front Panel (SPMedia)	
4	228014	80hm 100W 6" Widerange Speaker (SPLive)	
- 5	229015	80hm 20W 1" Dome Tweeter Speaker (SPMedia)	
6	228013	80hm75W6"WooferSpeaker(SPMedia)	
	210231	Amplifier Gasket	
	210229	Tweeter Gasket (SPMedia)	
	210217	Black Sealer (specify mt)	
	210209	Dacron Filler (specify mq)	
	100001	"Lem" Adhesive Orange Plate (SPLive)	
7	180661		
	180654	"Lem" Adhesive Blue Plate (SPMedia)	
	180654 120603 120471	"Lem" Adhesive Blue Plate (SPMedia) M8 (UNI558865) Nut 8.4mm Washer	
7	180654 120603 120471	"Lem" Adhesive Blue Plate (SPMedia) M8 (UNI558865) Nut	
7	180654 120603 120471 Cross 768174	"Lem" Adhesive Blue Plate (SPMedia) M8 (UNI558865) Nut 8.4mm Washer OVER BOARD Crossover Board (PCB#313050) (SPMedia) The Service Support is made only by replacement the entire Board	
7	180654 120603 120471 Cross 768174	"Lem" Adhesive Blue Plate (SPMedia) M8 (UNI558865) Nut 8.4mm Washer COVER BOARD Crossover Board (PCB#313050) (SPMedia) The Service Support is made only by replacement the entire Board fier Assembly	
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8	180654 120603 120471 Cross 768174 Ampli 727593 727594 768176 140081 110307 110119 090917 090916	"Lem" Adhesive Blue Plate (SPMedia) M8 (UNI558865) Nut 8.4mm Washer Crossover Board Crossover Board (PCB#313050) (SPMedia) The Service Support is made only by replacement the entire Board fier Assembly Amplifier Assembly (EU) Amplifier Assembly (US) * Supply & Power Board (PCB#313014) ** H2c P=10 Terminal Block ** Relay 24V / 2 Switch 5A 250V ** Fuse Clip 10A max (EU) (US) ** MJE340 TO 126 Pnp Transistor ** MJE340 TO 126 Npn Transistor ** BC550 TO92 Npn Transistor	
8	180654 120603 120471 Cross 768174 Ampli 727593 727594 768176 140081 110307 110119 090917 090916 090200	"Lem" Adhesive Blue Plate (SPMedia) M8 (UNI558865) Nut 8.4mm Washer COVER Board Crossover Board (PCB#313050) (SPMedia) The Service Support is made only by replacement the entire Board fier Assembly Amplifier Assembly (EU) Amplifier Assembly (US) * Supply & Power Board (PCB#313014) ** H 2c P=10 Terminal Block ** Relay 24V / 2 Switch 5A 250V ** Fuse Clip 10A max (EU) (US) ** MJE350 TO 126 Pnp Transistor ** MJE340 TO 126 Npn Transistor	
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8	180654 120603 120471 Cross 768174 Ampli 727593 727594 768176 140081 110307 110119 090916 090200 090183 080743 080605 080293 080245 080170 080156 080103	"Lem" Adhesive Blue Plate (SPMedia) M8 (UNI558865) Nut 8.4mm Washer COVER Board Crossover Board (PCB#313050) (SPMedia) The Service Support is made only by replacement the entire Board fier Assembly Amplifier Assembly (EU) Amplifier Assembly (US) * Supply & Power Board (PCB#313014) ** H 2c P=10 Terminal Block ** Relay 24V / 2 Switch 5A 250V ** Fuse Clip 10A max (EU) (US) ** MJE350 TO126 Pnp Transistor ** MJE350 TO92 Npn Transistor ** BC550 TO92 LN Npn Transistor ** BC550 TO92 LN Npn Transistor ** Supply & Power Board (PCB#313014) ** BC550 TO92 CN Npn Transistor	
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8	180654 120603 120471 Cross 768174 Ampli 727593 727594 768176 140081 110307 110119 090917 090916 090200 090183 080743 080605 080293 080245 080170 080156 080103 070106 060501 060336 060075 030715	"Lem" Adhesive Blue Plate (SPMedia) M8 (UNI558865) Nut 8.4mm Washer COVER Board Crossover Board (PCB#313050) (SPMedia) The Service Support is made only by replacement the entire Board fier Assembly Amplifier Assembly (EU) Amplifier Assembly (US) * Supply & Power Board (PCB#313014) ** H 2c P=10 Terminal Block ** Relay 24V / 2 Switch 5A 250V ** Fuse Clip 10A max (EU) (US) ** MJE350 TO126 Pnp Transistor ** MJE340 TO126 Npn Transistor ** MJE340 TO126 Npn Transistor ** BC550 TO92 LN Npn Transistor ** BC550 TO92 LN Npn Transistor ** BC550 TO92 LN Npn Transistor ** BC50 TO92 LN Npn Transistor ** ATM Wide Diffused Green Led ** KBL02 4A 200V Rectifier Diode Bridge ** 15V 1W 5% Zener Diode ** 15V 1W 5% Zener Diode ** 15V 1W 5% Zener Diode ** 1N4148 100mA 75V Signal Diode ** 1N4148 100mA 75V Signal Diode ** 470E 20% Horizontal Linear Trimmer ** 1K5 2W 10% Resistor ** 47E 2W 10% Resistor ** 47E 2W 10% Resistor ** 1000u 6v3 20% Vert Electrolytic Capacitor	
8	180654 120603 120471 Cross 768174 Ampli 727593 727594 768176 140081 110307 110119 090917 090916 090200 090183 080743 080605 080293 080245 080170 080156 080103 070106 060336 060075 030715	"Lem" Adhesive Blue Plate (SPMedia) M8 (UNI558865) Nut 8.4mm Washer COVER Board Crossover Board (PCB#313050) (SPMedia) The Service Support is made only by replacement the entire Board fier Assembly Amplifier Assembly (EU) Amplifier Assembly (US) * Supply & Power Board (PCB#313014) ** H 2c P=10 Terminal Block ** Relay 24V / 2 Switch 5A 250V ** Fuse Clip 10A max (EU) (US) ** MJE350 TO126 Pnp Transistor ** MJE340 TO126 Npn Transistor ** BC550 TO92 Npn Transistor ** BC550 TO92 LN Npn Transistor ** BC550 TO92 LN Npn Transistor ** BC550 TO92 LN Npn Transistor ** BC50 TO92 LN Npn Transist	
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8	180654 120603 120471 120471 120471 120471 120471 120471 120471 120471 120471 120471 120593 127594 140081 110307 110119 090916 0909183 080743 080605 080293 080245 080170 080156 080103 070106 060501 060356 060075 030715 030554 030525 020493 768175	"Lem" Adhesive Blue Plate (SPMedia) M8 (UNI558865) Nut 8.4mm Washer Crossover Board (PCB#313050) (SPMedia) The Service Support is made only by replacement the entire Board fier Assembly Amplifier Assembly (EU) Amplifier Assembly (US) * Supply & Power Board (PCB#313014) ** H 2c P=10 Terminal Block ** Relay 24V / 2 Switch 5A 250V ** Fuse Clip 10A max (EU) (US) ** MJE350 TO126 Pnp Transistor ** MJE340 TO126 Npn Transistor ** 2N5550 TO92 Npn Transistor ** 2N5550 TO92 Npn Transistor ** BC550 TO92 LN Npn Transistor ** BKBL02 4A 200V Rectifier Diode Bridge ** 15V 1W 5% Zener Diode ** KBL02 4A 200V Rectifier Diode ** TV5 1W 5% Zener Diode ** 1N402 1A 100V Rectifier Diode ** 1N402 1A 100V Rectifier Diode ** 1N4148 100mA 75V Signal Diode ** 1N4148 100mA 75V Signal Diode ** 470E 20% Horizontal Linear Trimmer ** 1K5 2W 10% Resistor ** 0E33 5W 5% Wire Resistor ** 0E33 5W 5% Wire Resistor ** 47E 2W 10% Resistor ** 1000 6V3 20% Vert Electrolytic Capacitor ** 4700 35V 20% Snapln Electrolytic Capacitor ** 22000 63V 20% Snapln Electrolytic Capacitor ** 22000 63V 20% Snapln Electrolytic Capacitor ** 100n 250V ac MKP EMI Capacitor "Siemens" ** Inputs & Driver Board (PCB#313006)	
8	180654 120603 120471 Cross 768174 Ampli 727593 727594 768176 140081 110307 110119 090917 0909183 080743 080605 080293 080245 080170 080156 080103 070106 060501 060336 060075 030525 020493 768175 141189	"Lem" Adhesive Blue Plate (SPMedia) M8 (UNI558865) Nut 8.4mm Washer Crossover Board (PCB#313050) (SPMedia) The Service Support is made only by replacement the entire Board fier Assembly Amplifier Assembly (EU) Amplifier Assembly (US) * Supply & Power Board (PCB#313014) ** H 2c P=10 Terminal Block ** Relay 24V / 2 Switch 5A 250V ** Fuse Clip 10A max (EU) (US) ** MJE330 TO126 Pnp Transistor ** MJE340 TO126 Npn Transistor ** 2N5550 TO99 2 Nnn Transistor ** BC550 TO99 2 Nn Nn Transistor ** BC550 TO99 2 Nn Npn Transistor ** AND	
8	180654 120603 120471 Cross 768174 Ampli 727593 727594 110307 110119 090917 090916 090200 090183 080743 08065 080293 080245 080170 080156 080075 030715 030554 030525 141189 141186	"Lem" Adhesive Blue Plate (SPMedia) M8 (UNI558865) Nut 8.4mm Washer Crossover Board (PCB#313050) (SPMedia) The Service Support is made only by replacement the entire Board fier Assembly Amplifier Assembly (EU) Amplifier Assembly (US) * Supply & Power Board (PCB#313014) ** H 2c P=10 Terminal Block ** Relay 24V / 2 Switch 5A 250V ** Fuse Clip 10A max (EU) (US) ** MJE350 TO126 Pnp Transistor ** MJE340 TO126 Npn Transistor ** BC550 TO92 LN Npn Transistor ** HBL02 4A 200V Rectifier Diode Bridge ** 15V 1W 5% Zener Diode ** 1N4021 A 100V Rectifier Diode ** 1N4021 A 100V Rectifier Diode ** 1N40821 A 10	
8	180654 120603 120471 120603 120471 120471 120471 120471 120471 120503 12	"Lem" Adhesive Blue Plate (SPMedia) M8 (UNI558865) Nut 8.4mm Washer Crossover Board (PCB#313050) (SPMedia) The Service Support is made only by replacement the entire Board fier Assembly Amplifier Assembly (EU) Amplifier Assembly (US) * Supply & Power Board (PCB#313014) ** H 2c P=10 Terminal Block ** Relay 24V / 2 Switch 5A 250V ** Fuse Clip 10A max (EU) (US) ** MJE350 TO126 Pnp Transistor ** MJE350 TO126 Pnp Transistor ** BC550 TO92 LN Npn Transistor ** BC590 TO92 LN Npn Transistor ** HBU2 4A 200V Rectifier Diode Bridge ** 15V 1W 5% Zener Diode ** 15V 1W 5% Zener Diode ** 15V 1W 5% Zener Diode ** 17V 5 1W 5% Zener Diode ** 1N4048 100mA 75V Signal Diode ** 1N4148 100mA 75V Signal Diode ** 470E 20% Horizontal Linear Trimmer ** 1K5 2W 10% Resistor ** 47E 2W 10% Resistor ** 47E 2W 10% Resistor ** 1000 6V3 20% Vert Electrolytic Capacitor ** 1000 250Vac MKP EMI Capacitor "Siemens" ** 1000 250Vac MKP EMI Capacitor "Siemens" ** 1000 250Vac MKP EMI Capacitor "Siemens" ** Inputs & Driver Board (PCB#313006) ** Hor Female XLR Jack Socket (NCJ6FKH Neutrik) ** Dual Rca Horizontal Socket	
8	180654 120603 120471 120603 120471 120471 120471 120471 120471 120471 12059 120593 120594 140081 110307 110119 1090917 1090916 1090200 1090183 1080605 1080754 1080156 1080103 1070106 1060501 1060336 106075 1030554 1030554 1030554 1030554 1030554 1041189 141189 141186 140242 110267	"Lem" Adhesive Blue Plate (SPMedia) M8 (UNI558865) Nut 8.4mm Washer Crossover Board (PCB#313050) (SPMedia) The Service Support is made only by replacement the entire Board fier Assembly Amplifier Assembly (EU) Amplifier Assembly (US) * Supply & Power Board (PCB#313014) ** H 2c P=10 Terminal Block ** Relay 24V / 2 Switch 5A 250V ** Fuse Clip 10A max (EU) (US) ** MJE350 TO126 Pnp Transistor ** MJE340 TO126 Pnp Transistor ** MSE340 TO126 Npn Transistor ** BC550 TO92 Npn Transistor ** BC550 TO92 LN Npn Transistor ** BC550 TO92 LN Npn Transistor ** BC550 TO92 LN Npn Transistor ** BC50 TO92 Npn Transist	
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8	180654 120603 120471 120603 120471 120471 120471 120471 120471 120471 12059 120593 120594 140081 110307 110119 1090917 1090916 1090200 1090183 1080605 1080754 1080156 1080103 1070106 1060501 1060336 106075 1030554 1030554 1030554 1030554 1030554 1041189 141189 141186 140242 110267	"Lem" Adhesive Blue Plate (SPMedia) M8 (UNI558865) Nut 8.4mm Washer Crossover Board (PCB#313050) (SPMedia) The Service Support is made only by replacement the entire Board fier Assembly Amplifier Assembly (EU) Amplifier Assembly (US) * Supply & Power Board (PCB#313014) ** H 2c P=10 Terminal Block ** Relay 24V / 2 Switch 5A 250V ** Fuse Clip 10A max (EU) (US) ** MJE350 TO126 Pnp Transistor ** MJE340 TO126 Pnp Transistor ** MSE340 TO126 Npn Transistor ** BC550 TO92 Npn Transistor ** BC550 TO92 LN Npn Transistor ** BC550 TO92 LN Npn Transistor ** BC550 TO92 LN Npn Transistor ** BC50 TO92 Npn Transist	

	090194		
		**	BC560 TO92 LN Pnp Transistor
	090183	**	BC550 TO92 LN Npn Transistor
	080901	**	VTL5C4 Analog Optoisolator
	080742 080293	**	Led 3mm Wide Diffused RedGrn 15V 1W 5% Zener Diode
	080103	**	1N4148 100mA 75V Signal Diode
	074570	**	5K31steps Linear Potentiometer
	042632	**	18K2 1/4w 1% Metalized Film Resistor
	042625	**	15K0 1/4W 1% Metalized Film Resistor
	042586	**	7K50 1/4w 1% Metalized Film Resistor 6K81 1/4w 1% Metalized Film Resistor
	042585 042524	**	2K43 1/4w 1% Metalized Film Resistor
11	667661	*	Rear Panel
	659027	*	White Pot Knob
	340079	*	TO220 Mica Washer
	237073	*	Transformer 230Vac 100VA (EU)
	237074 210212	*	Transformer 115Vac 100VA (US) Slider Switch Adhesive Gasket
	190229	*	Lateroid Insulator
12	177656	*	Heatsink
	150021	*	Cord Lock
13	130294	*	Mains Cord (EU)
13	130277	*	Mains Cord (US)
14	110285 110010	*	Power Switch T2A Fuse 5x20mm (EU)
	110010	*	T2A Fuse 6.3x32mm (US)
	090926	*	2SA1908 TO3P Pnp Transistor
	090925	*	2SC5100 TO3P Npn Transistor
	090920	*	MJE802 TO126 Npn Darl Transistor
Notes	c.		
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Each sp	oare part is s		ntity unless otherwise specified
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