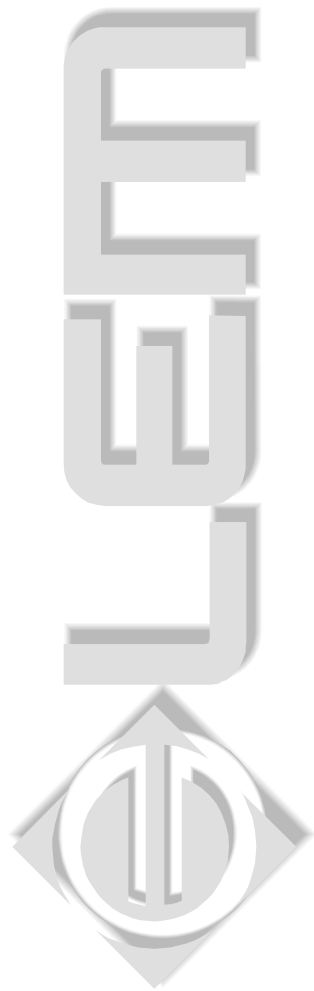


MX 8

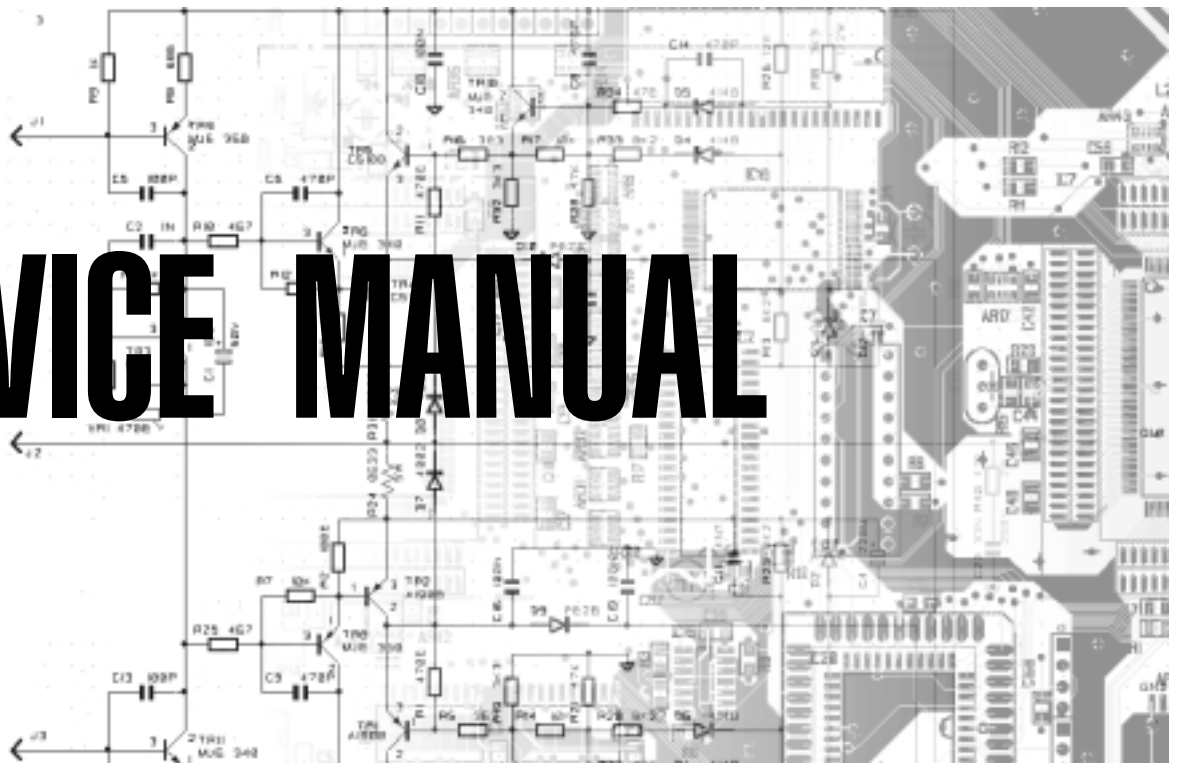
STEREO MIXER

MX8P

POWERED MIXER



SERVICE MANUAL



Index

3	Specifications
4	MX8 Regulator Board
5	MX8P Amplifier & Regulator Board
6	MX8/MX8P CH1...CH4 Mic/Line Channel Board
7	MX8/MX8P CH5-6...CH7-8 Stereo/Line Channel Board
8	MX8/MX8P Tape/Phones Board
9	MX8/MX8P Master/Fx Board
10	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 (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.

↑ Supply voltage.

⏏ Logic supply ground.

• Male connector.

□ Test point.

⏏ Analog supply ground.

○ Female connector.

◯ Flag joined with one or more flags with the same signal name inscribed.

⏏ Chassis ground.

⏏ M/F faston connector.

⏏ Earth ground.



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>

MX 8/8P • TECHNICAL SPECIFICATIONS

SECTION		LEVELS & DATA		CONNECTORS
MONO INPUT CHANNEL				
MIC input	sensitivity	from -5 to -55dB	XLR-F balanced	
LINE inout	sensitivity	-20dB	JACK balanced	
EQ	HIGH	±15dB, @ 1kHz a 12kHz SHELIVING		
	MID	±15dB @ 2.5kHz PEAKING		
	LOW	±15dB @ 80Hz, SHELIVING		
STEREO INPUT CHANNEL				
STEREO LINE input channel	sensitivity	-20dB	RCA phono	
PHONO inout channel	sensitivity	-50dB		
MASTER SECTION				
MIX output	output level	+4dB	JACK balanced	
	impedance	1kOhms		
AUX output	output level	+4dB	JACK unbalanced	
	impedance	1kOhms		
FX RETURN	sensitivity	-20dB	JACK unbalanced	
TAPE	IN	-20dB	RCA phono	
	OUT	0dB		
HEADPHONES	minimum impedance	220 Ohms	JACK stereo	
	output level	7V		
POWER AMPLIFIER				
EIA output power (1 kHz, THD 1%)	MX8P only	50 + 50 Watts / 4 Ohms	2 x JACK	
GENERAL SPECIFICATIONS				
Frequency response		20Hz - 20kHz, -3dB		
Hum & Noise		-80dB		
Harmonic distortion (THD)		<0.1% @ 1kHz		
Power supply		see label on the apparatus		
Weight (MX 8)	kg	2.7		
Dimensions (MX 8)	mm (WxHxD)	270x100x300		
Weight (MX 8P)	kg	2.9		
Dimensions (MX 8P)	mm (WxHxD)	270x120x300		

LMP768000 - MX8 Regulator Board

The schematic diagram illustrates the power supply and regulation circuitry for the LMP768000 - MX8 Regulator Board. The circuit is divided into two main sections: Phantom power and Main power.

Phantom Power Section:

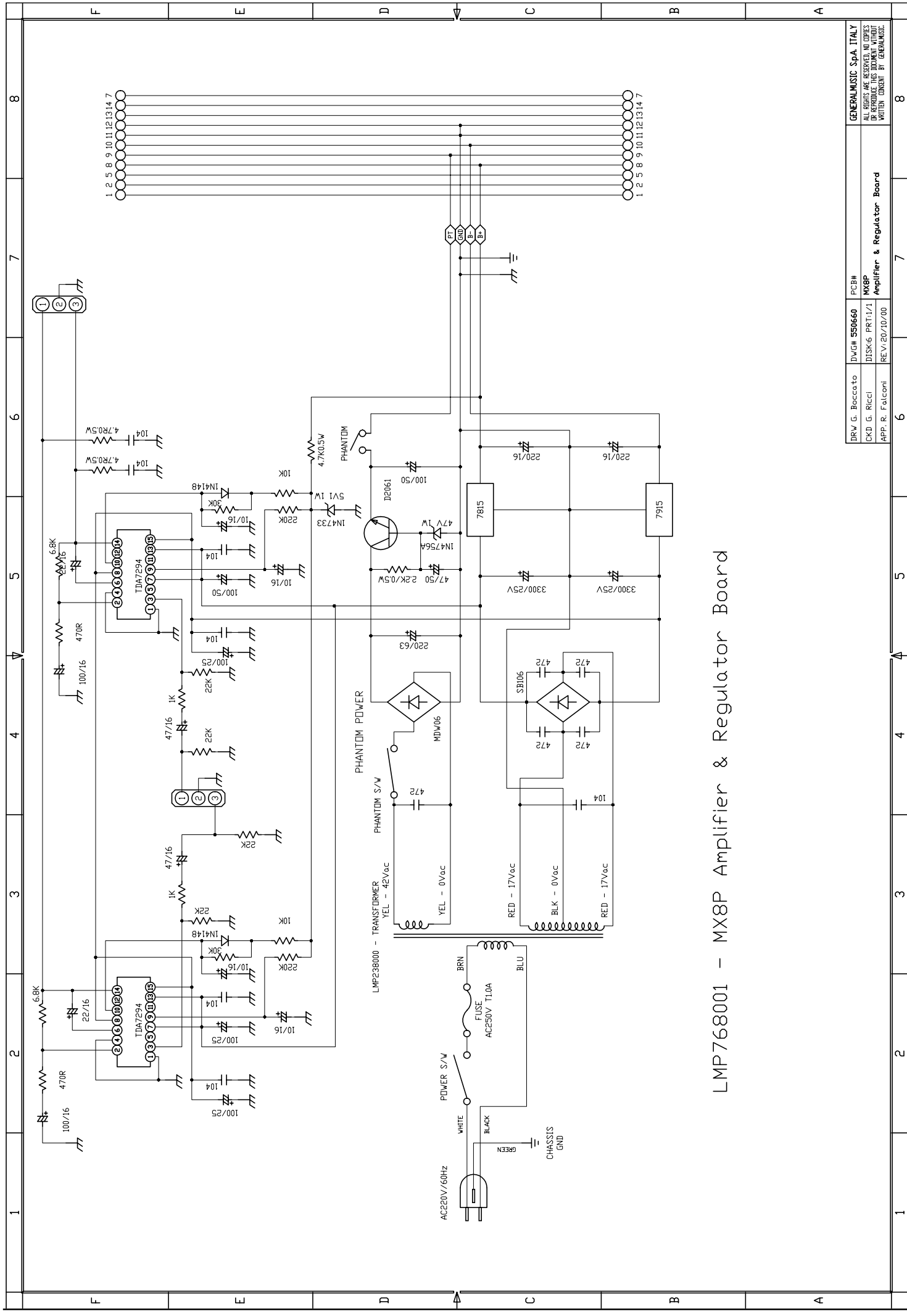
- Input: PHANTOM (YEL - 44V_{vac})
- Transformer: LMP237000 - TRANSFORMER
- Rectifier: MDW06 (Diode Bridge)
- Regulator: 7815 (Positive Voltage Regulator)
- Output: PHANTOM POWER (10/0.5W)

Main Power Section:

- Input: MAINS AC 230V_{vac} 50/60Hz
- Switch: POWER S/W
- Fuse: FUSE AC250V T0.2A
- Transformer: LMP237000 - TRANSFORMER
- Rectifier: MDW06 (Diode Bridge)
- Regulator: 7915 (Negative Voltage Regulator)
- Output: MAIN POWER (10/0.5W)

The LMP768000 chip is shown with its pins connected to the Phantom power output, the Main power output, and various ground and supply pins. The chip is labeled with its part number and the MX8 Regulator Board.

LMP768000 - MX8 Regulator Board



LMP768001 - MX8P Amplifier & Regulator Board

DRV G. Bocca to	DWG# 550660	PCB#	GENERAL MUSIC SpA ITALY
CKD G. Ricci	DISK6 PRT1/1	MX8P	ALL RIGHTS ARE RESERVED, NO COPIES
APP. R. Falconi	REV. 20/10/00	Amplifier & Regulator Board	WITHOUT THE WRITTEN CONSENT BY GENERAL MUSIC

LMP768002 - MX8/MX8P CH1-4 Mic-Line Channel Board

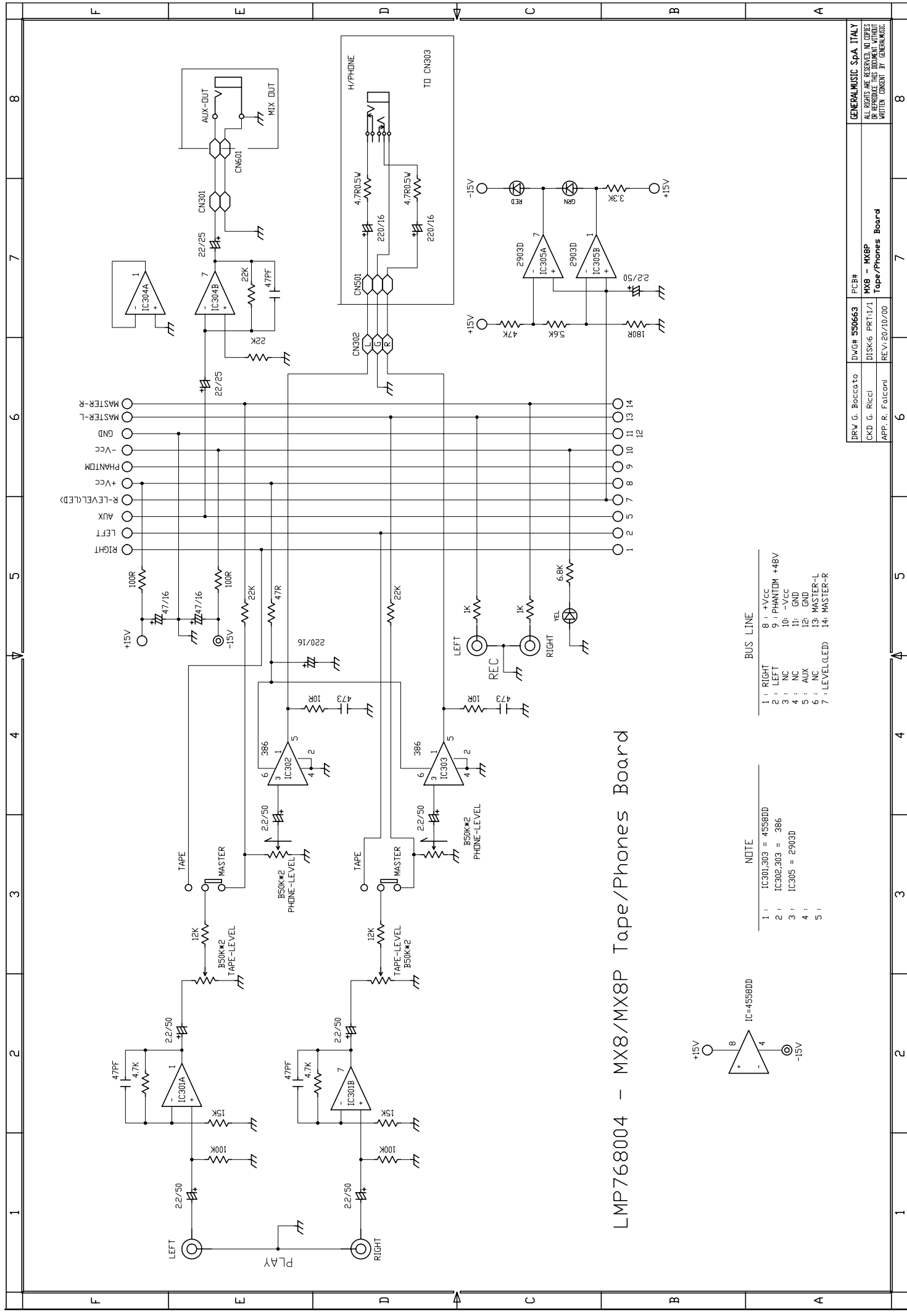
NOTE
 1: IC = ALL 4558DD

BUS LINE
 1: RIGHT
 2: LEFT
 3: N.C.
 4: N.C.
 5: AUX
 6: N.C.
 7: R-LEVEL(LED)
 8: +Vcc
 9: PHANTOM
 10: -Vcc
 11: GND
 12: GND
 13: MASTER-L
 14: MASTER-R

GENERAL MUSIC S.p.A. ITALY
 ALL RIGHTS ARE RESERVED. NO COPIES
 OR REPRODUCE THIS DOCUMENT WITHOUT
 WRITTEN CONSENT BY GENERAL MUSIC.

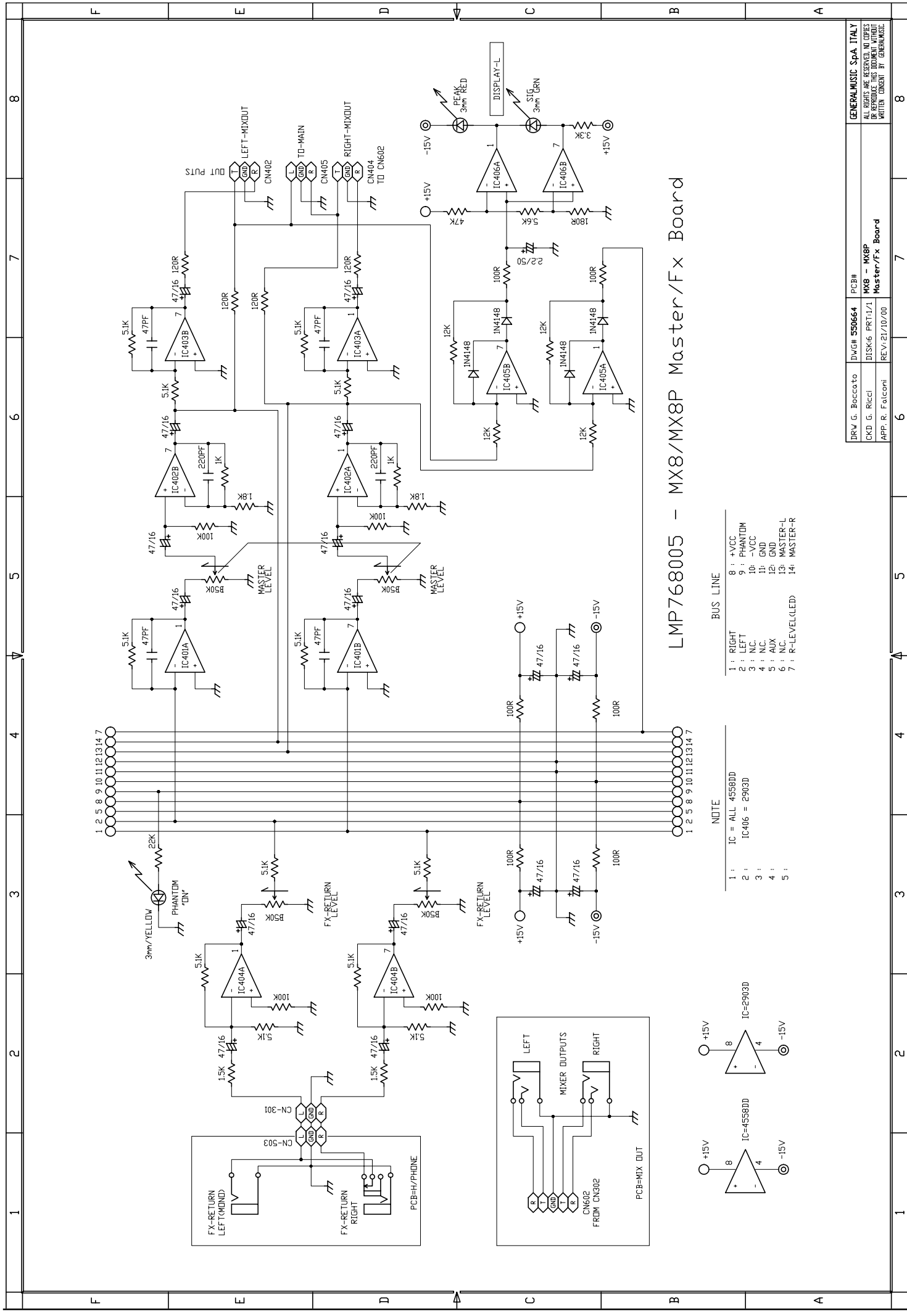


DRW G. Boccato	DWG# 550661	PCB#	GENERALMUSIC SpA, ITALY ALL RIGHTS ARE RESERVED, NO COPIES OR REPRODUCTIONS ARE ALLOWED WITHOUT WRITTEN CONSENT BY GENERALMUSIC.
CKD G. Ricci	DISK# PRT1/1	MX8 - MX8P	
APP. R. Falconi	REV#20/10/00	CH1-4 Mic-Line Channel Board	



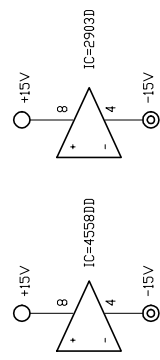
LMP768004 - MX8/MX8P Tape/Phones Board

DRV G. Bocca to	DWG# 550663	PCB#	GENERAL MUSIC SpA ITALY
CKD G. Ricci	DISK6 PRT-1/1	MX8 - MX8P	ALL RIGHTS ARE RESERVED. NO COPIES OR REPRODUCTIONS ARE ALLOWED WITHOUT WRITTEN CONSENT BY GENERAL MUSIC.
APP. R. Falconi	REV.20/10/00	Tape/Phones Board	



LMP768005 - MX8/MX8P Master/Fx Board

- NOTE
- 1 : IC = ALL 4558DD
 - 2 : IC406 = 2903D
 - 3 : N.C.
 - 4 : N.C.
 - 5 : N.C.
- BUS LINE
- 8 : +VCC
 - 9 : PHANTOM
 - 10 : -VCC
 - 11 : N.C.
 - 12 : GND
 - 13 : MASTER-L
 - 14 : MASTER-R



DRV G. Bocca to	DWG# 550664	PCB#	GENERAL MUSIC SpA ITALY
CKD G. Ricci	DISK6 PRT.1/1	MX8 - MX8P	ALL RIGHTS ARE RESERVED. NO COPIES
APP. R. Falconi	REV. 21/10/00	Master/Fx Board	OR REPRODUCE THIS DOCUMENT WITHOUT
			WRITTEN CONSENT BY GENERAL MUSIC

Spare Part List

Code	Description
Accessories	
277361	Owner's Manual (English-Italian)
130297	Mains Cable (EU)

Accessories

277361	Owner's Manual (English-Italian)
130297	Mains Cable (EU)

Mechanical Parts

LMP667002	MX8 Bottom Chassis
LMP667003	MX8P Bottom Chassis
LMP667000	MX8 Top Chassis
LMP667001	MX8P Top Chassis
LMP667004	MX8 Left Side
LMP667005	MX8 Right Side
LMP667006	MX8P Left Side
LMP667007	MX8P Right Side
LMP347000	Red Knob
LMP347001	Blue Knob
LMP347002	Black Knob
LMP347003	Yellow Knob
LMP347004	White Knob

Mains Assembly

110117	Fuse Holder 5x20mm for Panel
110016	T200mA Fuse 5x20mm (EU)
110011	T1A Fuse 5x20mm (EU)
110285	4A 250Vac Bipolar Power Switch
LMP237000	Shieded Transformer 20W 230Vac/18+18/44Vac
LMP238000	Toroidal Transformer 135W 230Vac/17+17/42Vac

Amplifier & Regulator Board

LMP768000	MX8 Regulator Board
LMP768001	MX8P Amplifier & Regulator Board
080168	W02M 1.5A Rectifier Diodes Bridge
LMP080600	GBPC802 8A 200V Rectifier Diodes Bridge
030853	3300u 25V 20% Vert Electrolytic Capacitor
030567	220u 63V 20% Vert Electrolytic Capacitor
100060	7815 +15V 1A Voltage Regulator
100049	7915 -15V 1A Voltage Regulator
340078	TO220 Insulated Bush
340079	TO220 Mica Washer
090918	MJE15030 TO220 Npn Transistor (2SD2061 equivalent)
100965	TDA7294 70W Audio Amplifier with Mute
LMP080200	1N4733A 5V1 1W 5% Zener Diode
LMP080201	1N4756A 47V 1W 5% Zener Diode

Mic-Line Channel Board

LMP768002	CH1-4 Mic-Line Channel Board
LMP140000	Tall Horizontal Jack Mono Female Socket
LMP141000	Horizontal Female XLR Socket
LMP075000	5KC(D) AntiLog Rotary Potentiometer
LMP074001	50KB Linear Rotary Potentiometer
LMP074000	10KB Linear Rotary Potentiometer
LMP090000	KTC3200GR TO92 LN Npn Transistor
LMP090001	KTC1268GR TO92 LN Pnp Transistor
080103	1N4148 100mA 75V Signal Diode
100051	MC4558CP1 Dual Operational Amplifier

Stereo-Line Channel Board

LMP768003	CH5/6-7/8 Stereo-Line Channel Board
LMP074002	50KBX2 Linear Rotary Potentiometer
LMP074000	10KB Linear Rotary Potentiometer
LMP140004	Dual Horizontal Female RCA Socket
LMP110000	2sw 2pos Horizontal Slider Switch
100051	MC4558CP1 Dual Operational Amplifier

Tape/Phones Board

LMP768004	Tape/Phones Board
LMP074002	50KBX2 Linear Rotary Potentiometer
080714	Led 5mm 60deg Diffused Red
080705	Led 3mm 60deg Diffused Red
080706	Led 3mm 60deg Diffused Green
LMP110000	2sw 2pos Horizontal Slider Switch
100051	MC4558CP1 Dual Operational Amplifier
LMP100000	NJM2903 Dual Comparator
LMP100001	NJM386 Low Voltage Audio Amplifier
LMP140005	Quad Horizontal Female RCA Socket

Master/Fx Board

LMP768005	Master/Fx Board
080710	Led 3mm 60deg Diffused Yel
080705	Led 3mm 60deg Diffused Red
080706	Led 3mm 60deg Diffused Green
LMP074002	50KBX2 Linear Rotary Potentiometer
100051	MC4558CP1 Dual Operational Amplifier
LMP100000	NJM2903 Dual Comparator
LMP768006	Mix/Aux Out Board

LMP140001	Short Horizontal Jack Mono Female Socket
LMP768007	FxReturn In/Phones Out Board
LMP140001	Short Horizontal Jack Mono Female Socket
LMP140003	Short Horizontal Jack Stereo Female Socket
LMP768008	Speakers Out Board
LMP140002	Big Horizontal Jack Mono Female Socket

Note:

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 =

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.