



# X0202

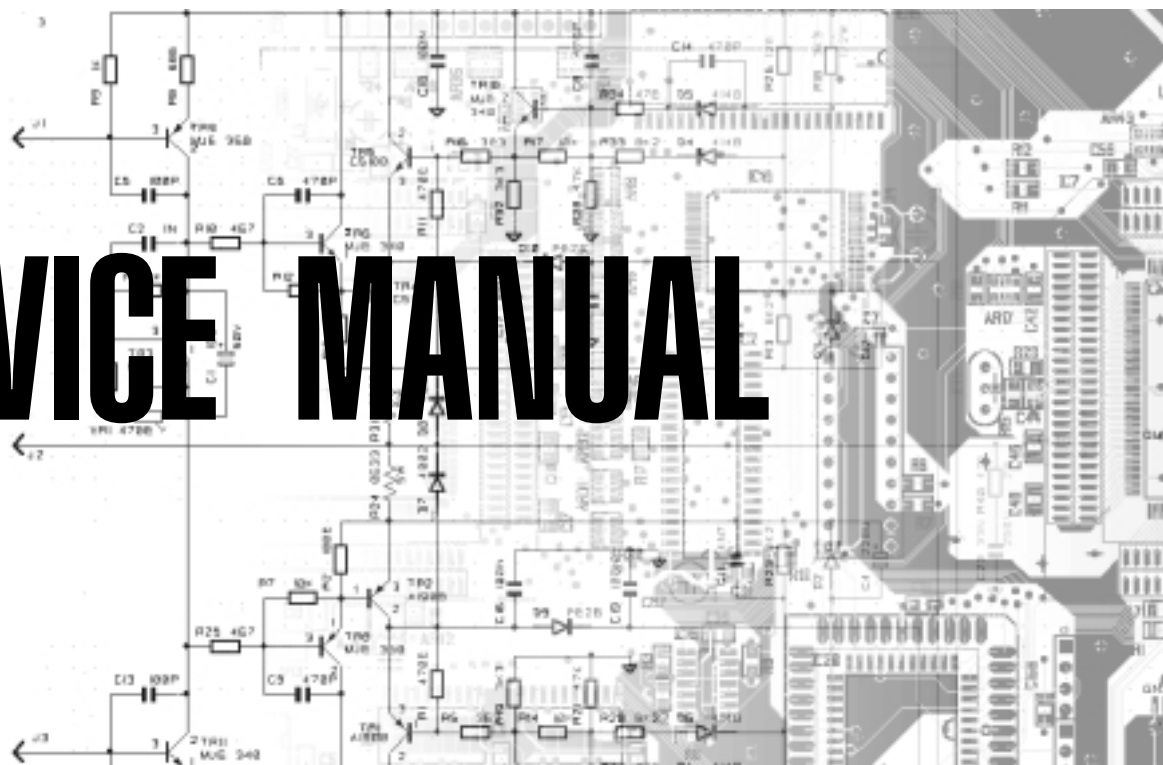
2-WAY STEREO  
3-WAY MONO  
ACTIVE CROSSOVER

# X0203

3-WAY STEREO  
4-WAY MONO  
ACTIVE CROSSOVER

## ANALOG SERIES

# SERVICE MANUAL



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## 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 ( $\mu$ ) 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.

• Male connector.

○ Female connector.

— M/F faston connector.

↑ Supply voltage.

□ Test point.

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

⊥ Logic supply ground.

⊥ Analog supply ground.

⊥ Chassis ground.

⊥ Earth ground.



### ATTENTION

Observe precautions when handling electrostatic sensitive devices.

## Address



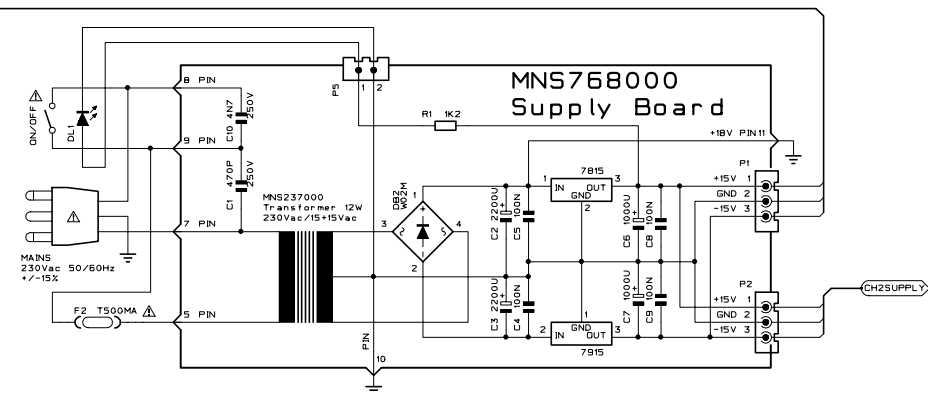
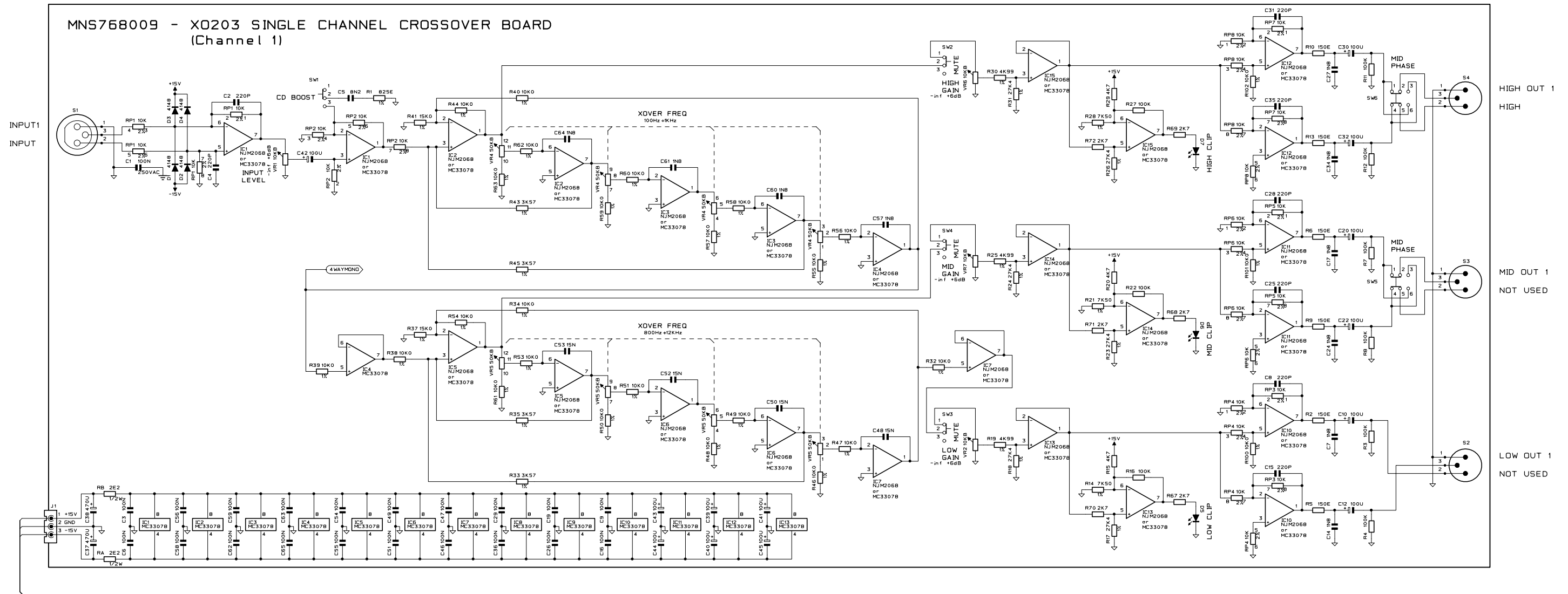
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Phone +39(0)541/959511 - Fax +39(0)541/957404 - GENERALMUSIC on the NET: <http://www.generalmusic.com>



► CODE: 270257 ◀

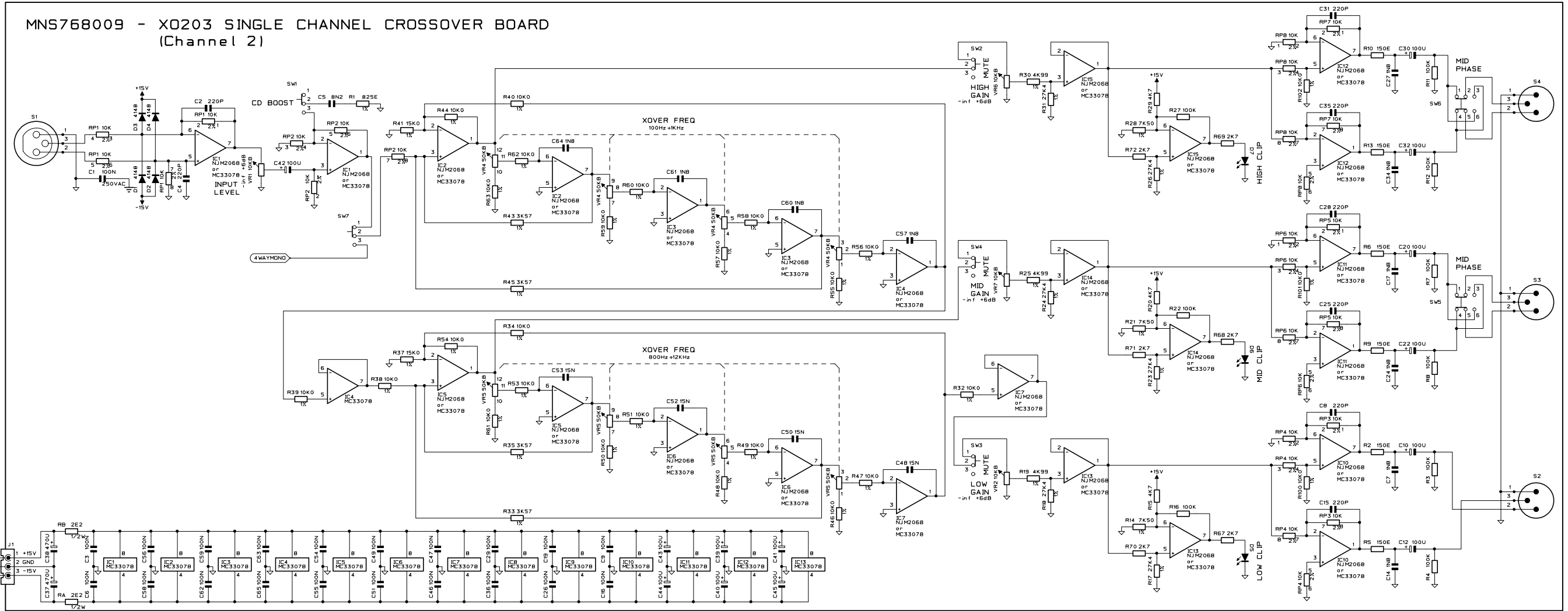
MNS768009 - X0203 SINGLE CHANNEL CROSSOVER BOARD  
(Channel 1)



# MNS768009 - X0203 SINGLE CHANNEL CROSSOVER BOARD (Channel 2)

INPUT2  
NOT USED

CH2SUPPLY

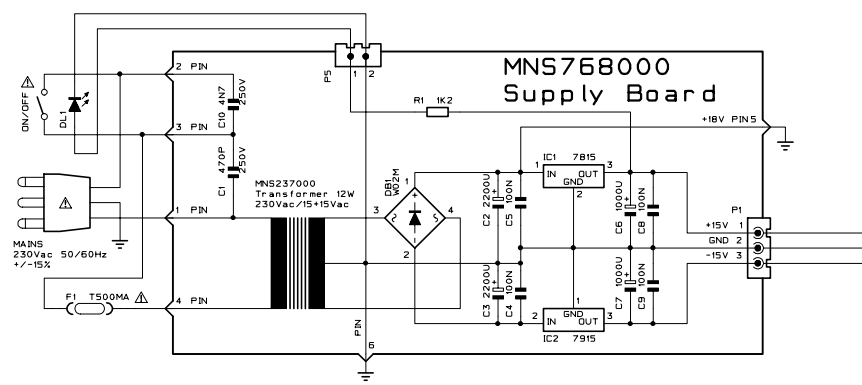
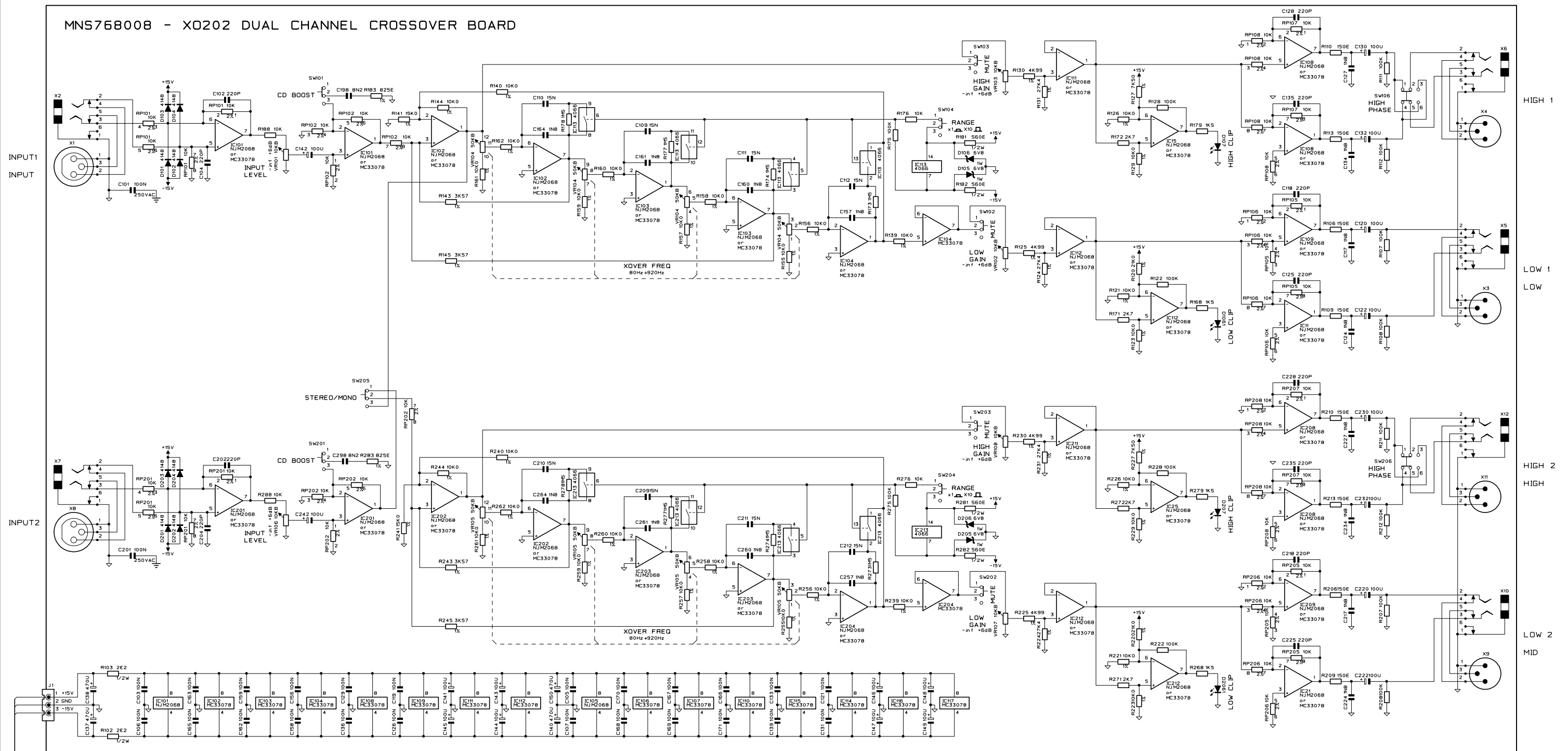


HIGH OUT 2  
MID OUT

MID OUT 2  
LOW OUT

LOW OUT 2  
SUB OUT

MNS768008 - X0202 DUAL CHANNEL CROSSOVER BOARD



Spare Part List

Code	Description
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Accessories

277345	Owner's Manual (English-Italian)
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Assembly

130294	Mains Cable
347200	Cord Lock
110117	Fuse Holder 5x20mm for Panel
110017	T500mA Fuse 5x20mm (EU)
MNS110000	Mains Switch with Led
MNS347001	Potentiometer Knob
MNS667004	Controls Panel XO202
MNS667005	Controls Panel XO203

Supply Board

MNS768000	Supply Board
MNS237000	* Transformer 12W 230Vac/15+15Vac
080168	* W02M 1.5A Rectifier Diodes Bridge
030806	* 2200u 35V 20% Vert Electrolytic Capacitor
030721	* 1000u 25V 20% Vert Electrolytic Capacitor
100060	* 7815 +15V 1A Voltage Regulator
100049	* 7915 -15V 1A Voltage Regulator

Leds Board

MNS768007	Led Board
080705	* Led 3mm 60deg Diffused Red

Crossover Board

MNS768008	XO202 Dual Channel Crossover Board
MNS768009	XO203 Single Channel Crossover Board
MNS110002	* 2sw 2pos Horizontal Slider Push
MNS110003	* 2sw 2pos Horizontal Slider Switch
MNS074001	* 10KB Rotary Potentiometer
MNS074002	* 4x50KB Rotary Potentiometer
100919	* MC33078 Dual LN Operational Amplifier (NJM2068D equivalent)
100568	* HCF4066 Quad Analog Switch
080103	* 1N4148 100mA 75V Signal Diode
MNS140000	* XLR Female Socket
MNS140001	* XLR Male 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.