

VMA160

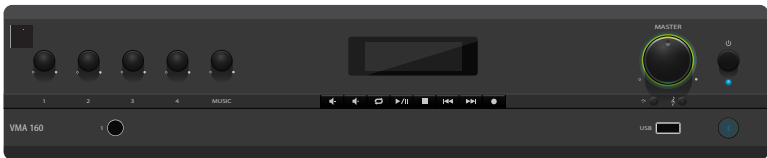
VMA1120

VMA1240

VMA260

VMA2120

Commercial Series
1 Channel & 2 Channel Mixer-Amplifier
Operation Manual



Contents

EC - DECLARATION OF CONFORMITY

Brand: JBL
Equipment Type: Compact Mini-Array
Model names: VMA160, VMA1120, VMA1240, VMA260, VMA2120

We, **Harman International**, declare under our sole responsibility that the product, to which this declaration relates, is in conformity with the following standards.

Report No.	Description
EN 55103-1:2009 +A1:2012	EMC Council Directive 89/336/EEC (EN 55103-1:2009 + A1:2012)
EN 55103-1:2009 +A1:2012	EMC Council Directive 89/336/EEC (EN 55103-1:2009 + A1:2012)
EN 61000-3-2:2014	Limitation of the harmonic current emissions (EN 61000-3-2:2014) Class B (16A)
EN 61000-3-3:2013	Limitation of the harmonic voltage emissions (EN 61000-3-3:2013) Class C (16A)
EN 55022:2010	Limitation of the radio frequency interference (EN 55022:2010) Class C (16A)

EN 61000-3-2:2014 (EN 61000-3-2:2014) Class B (16A) (EN 61000-3-3:2013) Class C (16A) (EN 55022:2010) Class C (16A)

EEC, Harmonic Emissions (EN 61000-3-2:2014) Class B (16A)

Due to line current harmonics, we recommend that you contact your supply authority before connection.

We certify that the product identified above conforms to the requirements of the EMC Council Directive 89/336/EEC as amended by 92/31/EEC, and the Low Voltage Directive 73/23/EC as amended by 93/68/EEC.

1.0 Welcome

1.1 Features

1.2 Front Panel Controls & Indicators

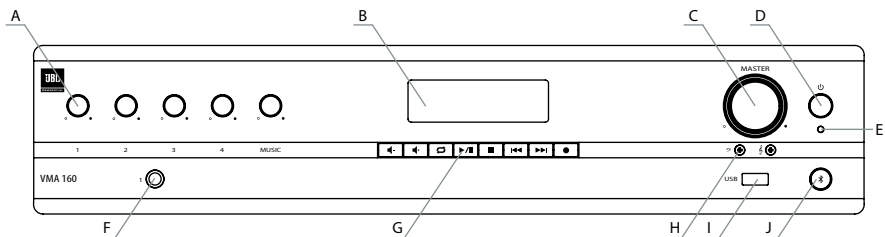
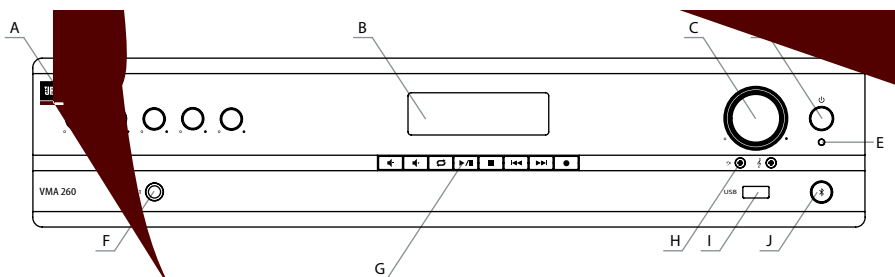


Figure 1.2.1 Front Panel, 1 Channel Model



1.4 Rear Panel Controls & Connectors (VMA260 & VMA2120)

2.0 Setup

2.1 Unpacking Your Amplifier

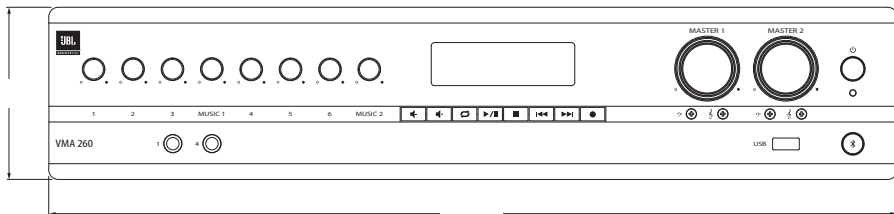
WARNING:

2.2 Installing Your Amplifier

CAUTION:

Note:

FRONT VIEW



SIDE VIEW

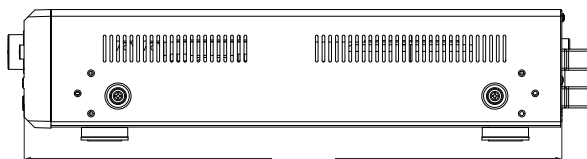
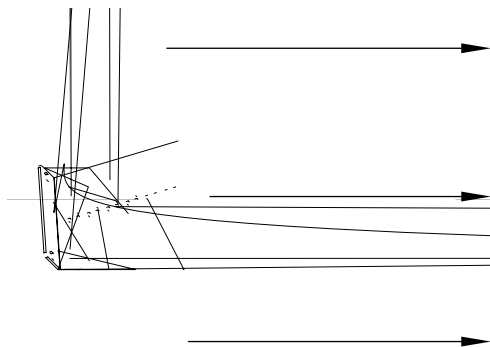


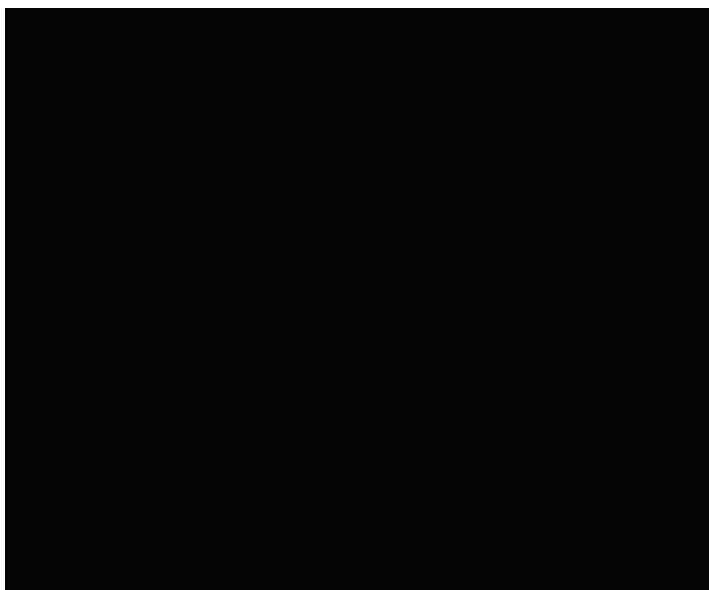
Figure 2.2.1 Dimensions



2.3 Ensuring Proper Cooling

2.4 Choosing Input Wire & Connectors

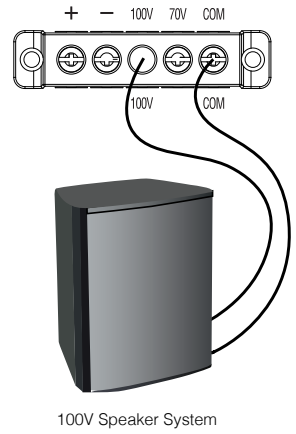
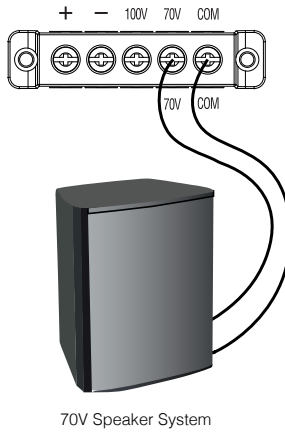
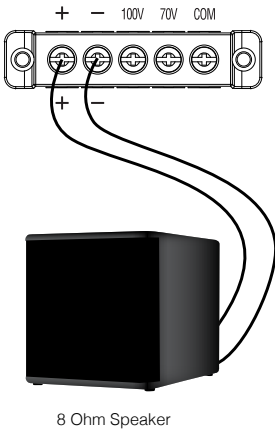
NOTE: *Custom wiring should only be performed by qualified personnel.*



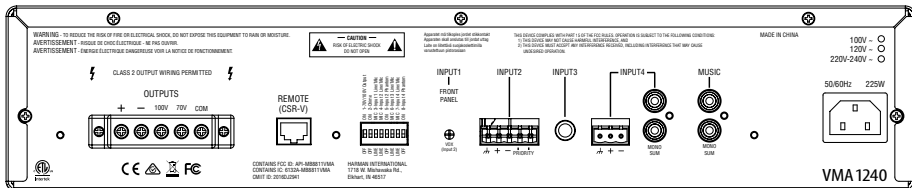
2.5 Output Wiring & Connectors

Distance

Wire Size



2.6 Wiring Your Audio System



2.7 Connecting to AC Mains

WARNING: *The third prong of this connector (ground) is an important safety feature. Do not attempt to disable this ground connection by using an adapter or other methods.*

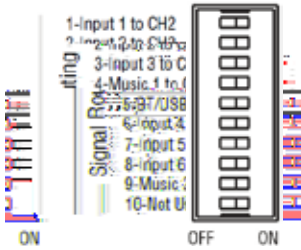
3.0 Operation

3.1 Precautions

WARNING:

CAUTION: JBL is not liable for damage that results from overdriving other system components.

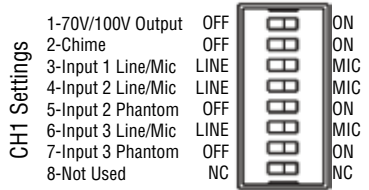
3.2 Input Routing



3.3 Configuration Settings

3.3.1 70V/100V Output Selection

3.3.2 Chime Function



3.3.3 Line/Mic Gain Switch

3.3.4 Phantom Power

3.4 VOX Function

3.5 Priority Muting

3.7 Media Player

3.7.1 Bluetooth Operation

Note:

Note:

Note:

Note: *Bluetooth signal is muted when broadcasting the chime tone.*

3.7.2 USB Operation

Note:

3.7.3 Additional Media Player Information

3.7.4 Firmware Upgrade Procedure

4.0 Troubleshooting

CONDITION: No power to the mixer-amplifier so that the power LED is not illuminated.

CONDITION: No sound or low sound.

CONDITION: Distorted sound.

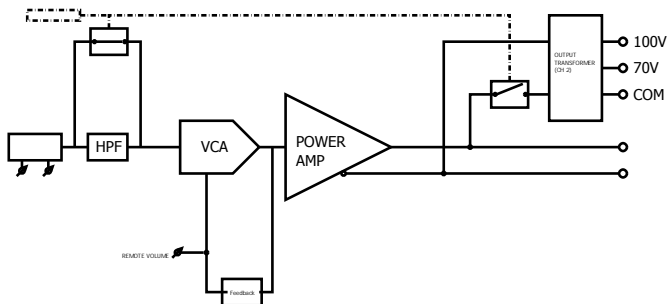
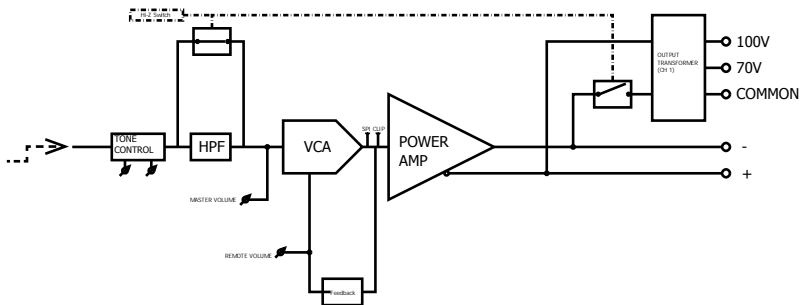
Appendix A: Target Performance Specifications

Performance	VMA160	VMA1120	VMA1240	VMA260	VMA2120
Max Output Power per Channel $\Omega \quad \Omega \quad \leq$					
Insertion Loss					
Number of Input Channels					
Number of Output Channels					
Tone Controls					
Input Sensitivity					
Frequency Response (measured at 2.83V into rated load impedance at any output)					
Total Harmonic Distortion (THD)					
Signal-to-Noise Ratio					
Input Impedance					
Phantom Power					
Crosstalk					

Appendix B: Block Diagrams

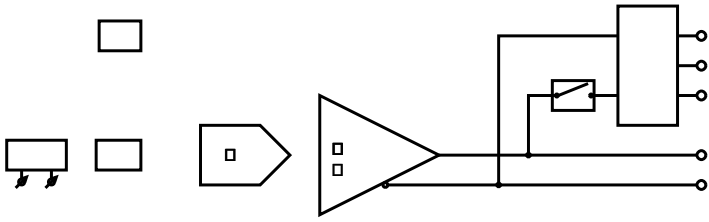
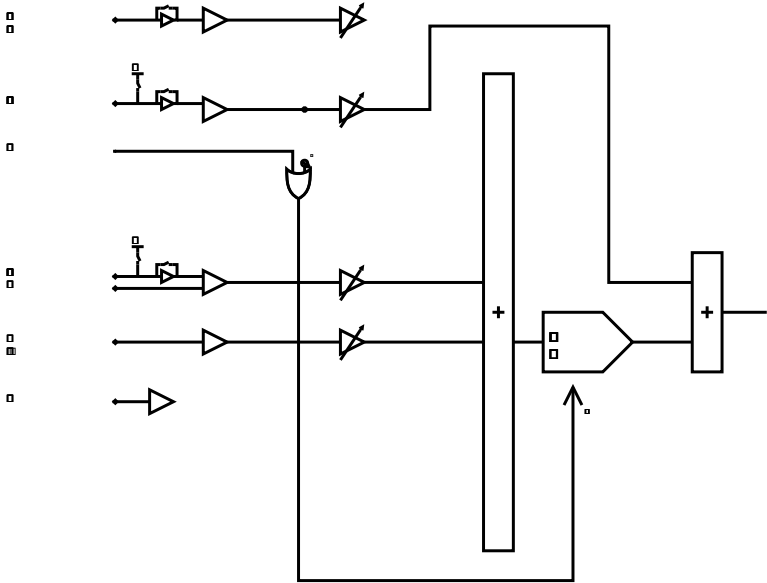
VMA260 & VMA2120

VMA260 & VMA2120 Continued



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VMA160, VMA1120 & VMA1240



Appendix C: Contact Information

On The World Wide Web:

Professional Contacts, Outside the USA:
