# Octasound RAMX2 V2.0 - Setting the Jumpers

The first requirement for the RAMX2 to work according to your installation is to set the jumpers according to the charts below. With the new version of the mixer you can have a line level output on channel 2. This will allow you to use channel 2 into a separate amplifer without the RAMX2 controlling the volume. This feature can be used where you do not want the user of the mixer varying the volume in another zone such as a viewing area or a hearing assist system.

Octasound RAMX2 Jumper Settings JP1 and JP6
2 Possible Configurations

JP1 and JP6 control output channel 1 (pins 5 and 6) and output channel 2 (pins 7 and 8) signals. They can be set as variable, volume control of the mixer controls the volume. Or they can be set as fixed, volume control of the mixer has no affect. There are 5 Different Configurations.

RAMX2 - Jumper Settings
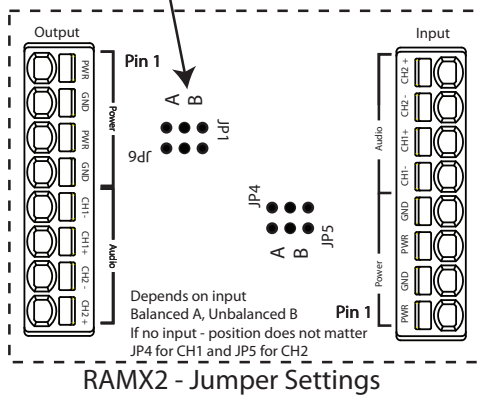
1. **Factory Default**

   Mic and Aux output variable on channel 1
   Mic and Aux fixed level on channel 2

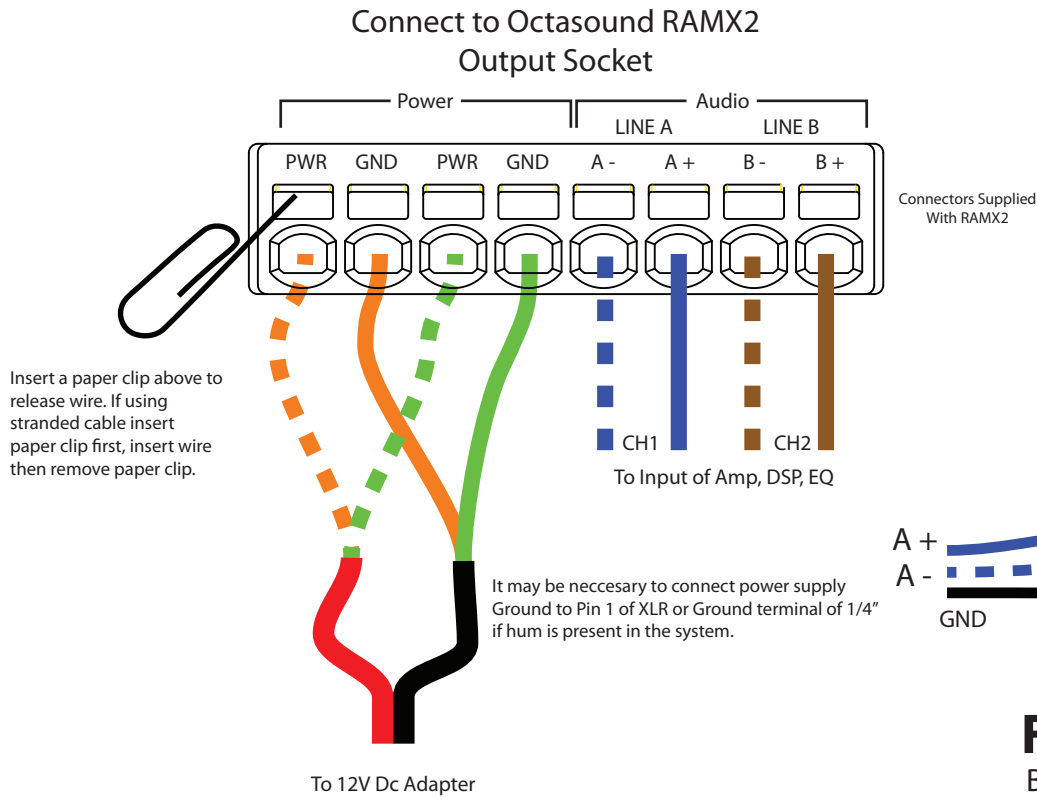2. Aux output variable on channel 1
   Mic ouput variable on channel 2

JP4 and JP5 are set according to channel 1 and channel 2 inputs. JP4 controls channel 1 and JP5 controls channel 2 If you are not using the input connector then these settings are not required. There are 4 possbile settings.
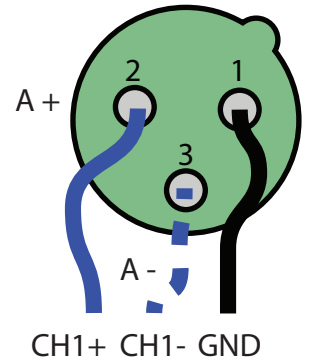

RAMX2 - Jumper Settings
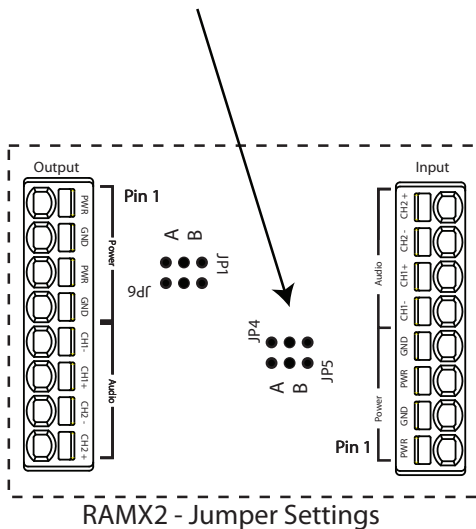
Factory Default

Channel 1 input is balanced. Channel 2 input is balanced

Channel1 input is unbalanced. Channel 2 input is unbalanced

Channel 1 input is balanced. Channel 2 input is unbalanced

Channel 1 input is unbalanced. Channel 2 input is balanced

To take full advantage of the feature set provided by the Octasound RAMX2 it is recommended to use CAT5 for wiring. Other methods will restrict the full capability. See page 2 and 3 for alternate wiring methods.

Wiring The Octasound - RAMX2 **Output**
CAT5 Method - Single or Dual Channel

Connect to Octasound RAMX2 Output Socket

Connect XLR to Input of Amp, DSP, EQ
Wiring LINE A to an XLR
(Rear View)

Power				Audio			
				LINE A		LINE B	
PWR	GND	PWR	GND	A -	A +	B -	B +

Connectors Supplied With RAMX2

Insert a paper clip above to release wire. If using stranded cable insert paper clip first, insert wire then remove paper clip.

CH1

CH2

To Input of Amp, DSP, EQ

It may be neccesary to connect power supply Ground to Pin 1 of XLR or Ground terminal of 1/4" if hum is present in the system.

To 12V Dc Adapter

A +

A -

2   1

3

A -

CH1+ CH1- GND

Wiring LINE A to an 1/4" Jack

A +
A -
GND

Tip
Sleeve   Ring

Connect 1/4" Jack to Input of Amp, DSP, EQ

FIGURE A
Balanced Output

Wiring The Octasound - RAMX2 **Output**
2 Conductor Shielded Cable + Power Cable
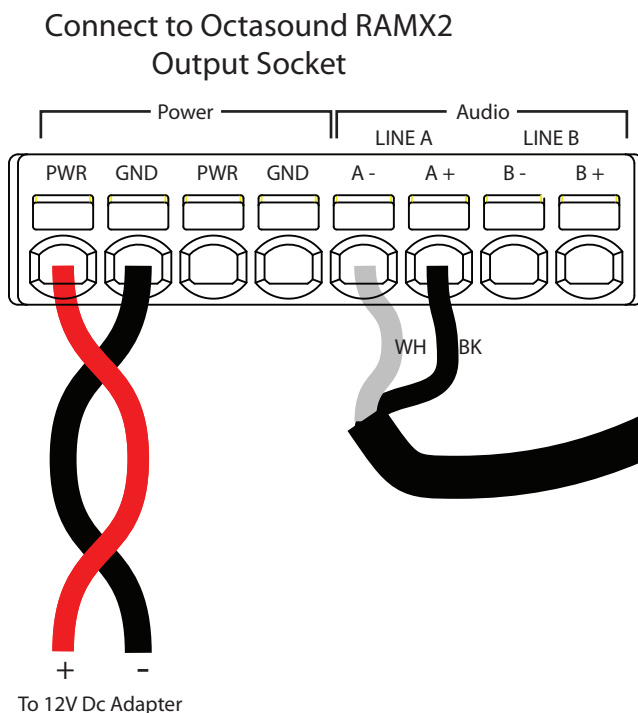
Connect to Octasound RAMX2 Output Socket

Connect XLR to Input of Amp, DSP, EQ
Wiring LINE A to an XLR
(Rear View)

Power				Audio			
				LINE A		LINE B	
PWR	GND	PWR	GND	A -	A +	B -	B +

WH   BK

To 12V Dc Adapter

+   −

A +

2   1

3

A -

GND

or wiring LINE A to an 1/4" Jack

A +
A -
GND

Tip
Sleeve   Ring
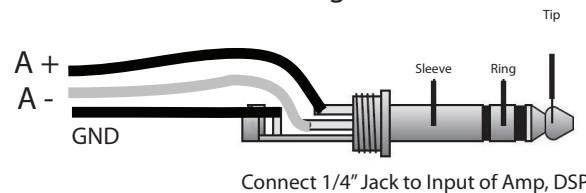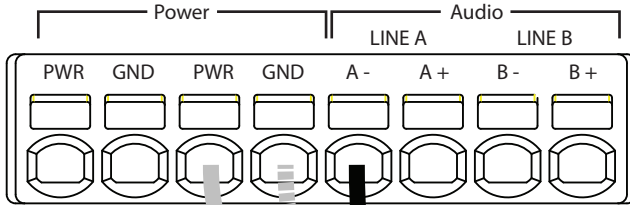
Connect 1/4" Jack to Input of Amp, DSP, EQ
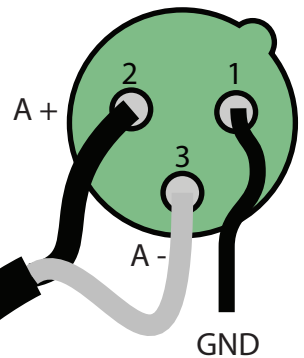
FIGURE B
Balanced Output

Wiring The Octasound - RAMX2 **Output**
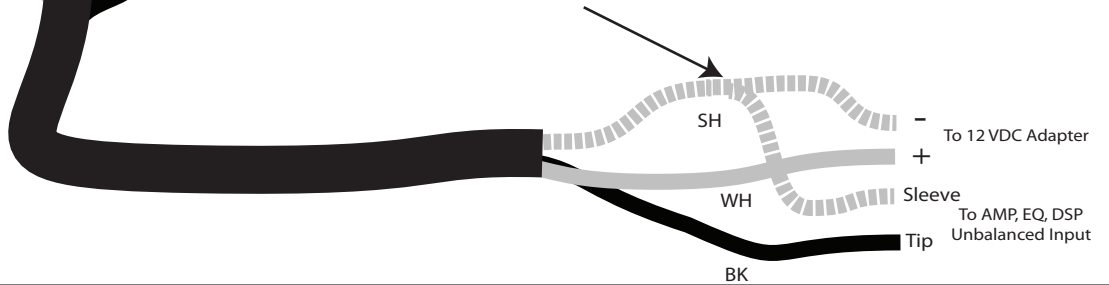## With Only 2 Conductor Shielded Cable

FIGURE C
Unbalanced Output

Connect to Octasound RAMX2
Output Socket

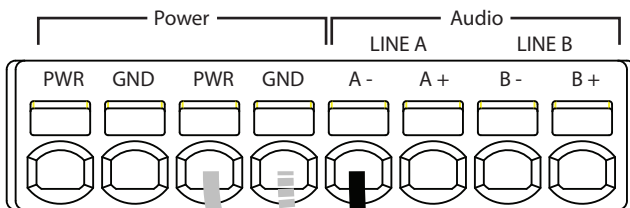| Power				Audio			
				LINE A		LINE B	
PWR	GND	PWR	GND	A -	A +	B -	B +

Connectors Supplied
With RAMX2

WH   SH   BK

****** Wire shielded cable in parallel to negative power supply
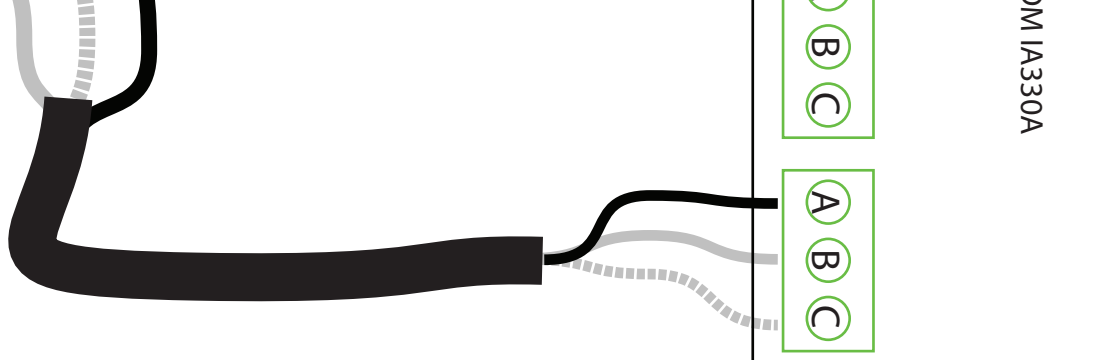And ground on unbalanced amplifier input**

SH

WH

BK

− To 12 VDC Adapter
+
Sleeve
Tip   To AMP, EQ, DSP
Unbalanced Input

Wiring The Octasound - RAMX2 **Output**
Into a KDM IA330A, MI300

FIGURE D
Unbalanced Output

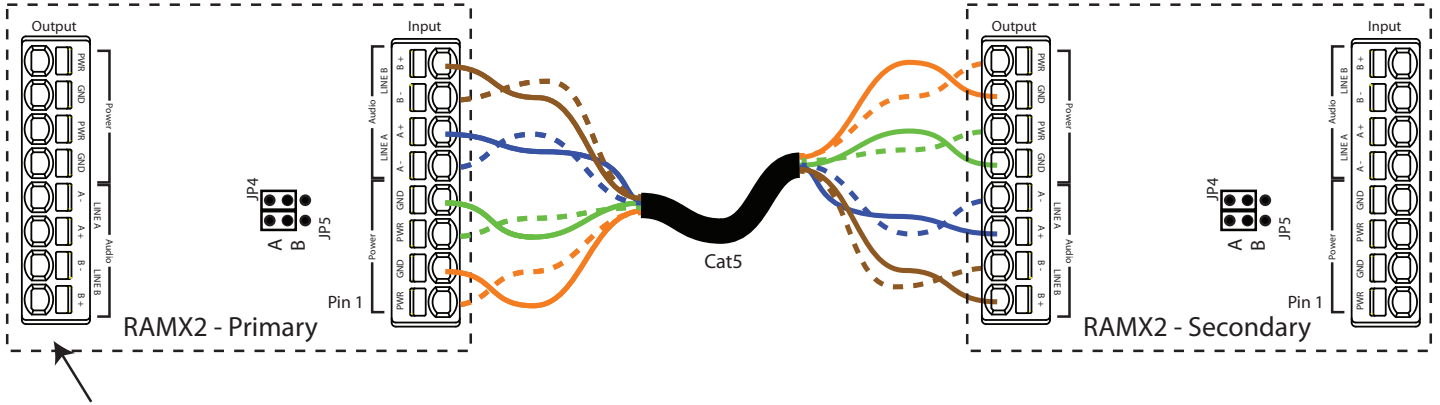| Power				Audio			
				LINE A		LINE B	
PWR	GND	PWR	GND	A -	A +	B -	B +

WH   SH   BK

A
B
C

A
B
C

A
B
C

KDM IA330A

Daisy Chaining the Octasound - RAMX2 Using Cat 5 Cable

**** If you require separation of Aux to CH1 and MIC to CH2 - JP1 must be in the B position on all RAMX2 Mixers

Cat5

RAMX2 - Primary

RAMX2 - Secondary

Refer to Figure A ,B or C for Choosing an Output Wiring Method to Amp, EQ, DSP. Primary RAMX2 must be powered.

Daisy Chaining the RAMX2 Using Twisted Pair Shield Cable + Power

RAMX2 - Primary

RAMX2 - Secondary

Refer to Figure A ,B, C or D for Choosing an Output Wiring Method to Amp, EQ, DSP. Primary RAMX2 must be powered.

Daisy Chaining the RAMX2 Using Twisted Pair Shield Cable

RAMX2 - Primary

RAMX2 - Secondary
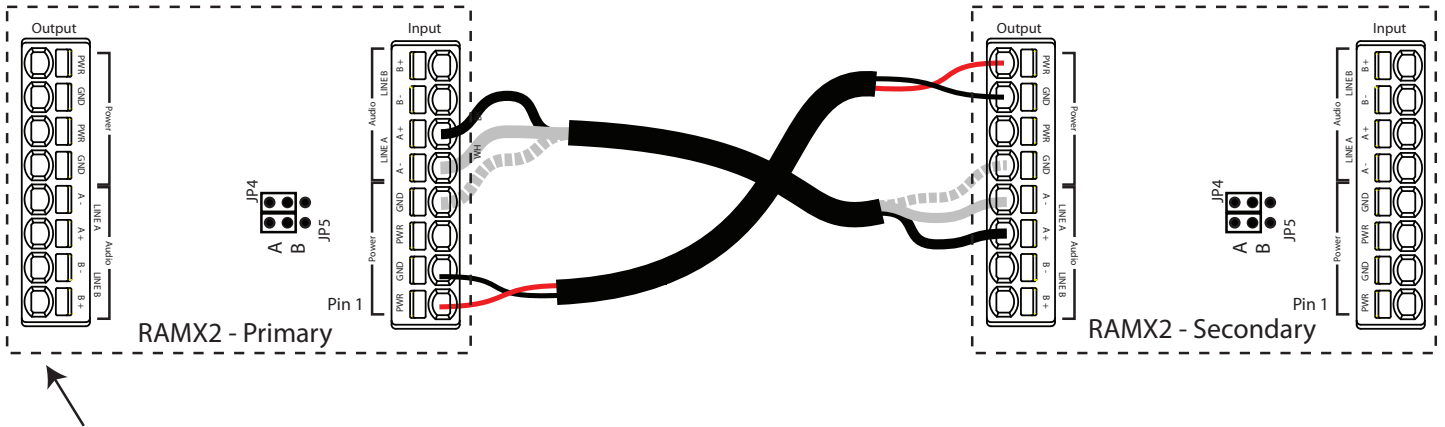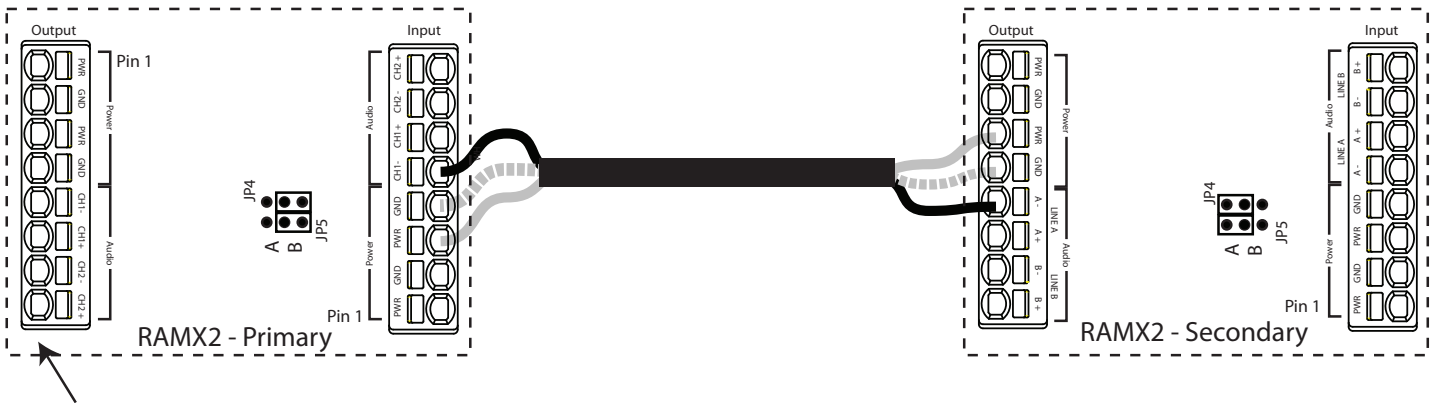
Refer to Figure A ,B, C or D for Choosing an Output Wiring Method to Amp, EQ, DSP. Primary RAMX2 must be powered.

Replacing a MX120A with an Octasound - RAMX2 in an existing MX120A installation

**** Note the Octasound RAMX2 must be the first (primary) mixer in the chain of mixers. This may require moving existing mixers

Dip switch located under board
Move Switch Toward Standoff

Output

Pin 1

JP6 · JP1 · A B

JP4

JP5 · A B

Unbalanced

Input

Audio · CH2- CH2+ CH1- CH1+

Power · PWR GND PWR GND

Pin 1 · PWR GND

MX120A Secondary

ON
OFF

RAMX2 - Primary

MX120A Secondary Dip Switch Positions

Refer to Figure A ,B or C for Choosing an Output Wiring Method to Amp, EQ, DSP. Primary RAMX2 must be powered.

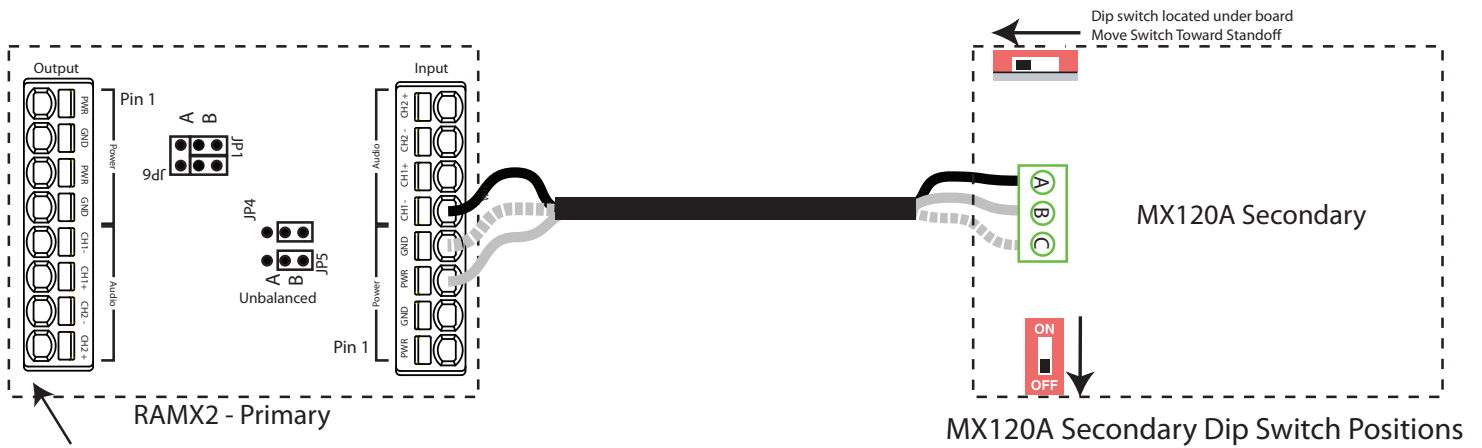# Adding an Octasound RAMX2 into an existing MX120A Installation

Disconnect the MX120A from the amplifier and splice
onto the CAT5 cable used on the RAMX2 as per diagram.
At the RAMX2 location - Wire the Brown and Brown White wire
to the RAMX2 input connector.

Dip switch located under board
Move Switch away from Standoff

Rack

To Amp Ground

To Amp

To 12V Dc Adapter

Splice together

MX120A

ON
OFF

Output

Pin 1

JP6 · JP1 · A B

JP4

JP5 · A B

Input

Pin 1

RAMX2 - Secondary