



behringer EUROCOM MA4008 Multi-Function 80-Watt Mixing Amplifier User Guide

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EUROCOM MA4008 Multi-Function 80-Watt Mixing Amplifier



Quick Start Guide
(Check out behringer.com for Full Manual)



EUROCOM

MA4008

Energy-Efficient, Multi-Function 80-Watt Mixing Amplifier with Dual 70/100 V and 4 Ω Outputs

MA4000M

Energy-Efficient, 9-Input Mixer Featuring Multiple Input Connectivity and Diverse Signal Routing

Important Safety Instructions

EUROCOM MA4008/MA4000M



CAUTION



RISK OF ELECTRIC SHOCK!

DO NOT OPEN!

Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality professional speaker cables with 1/4" TS or twistlocking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure

– voltage that may be sufficient to constitute a risk of shock.

This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.



Caution

To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.



Caution

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture.

The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.



Caution


These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including

amplifiers) that produce heat.

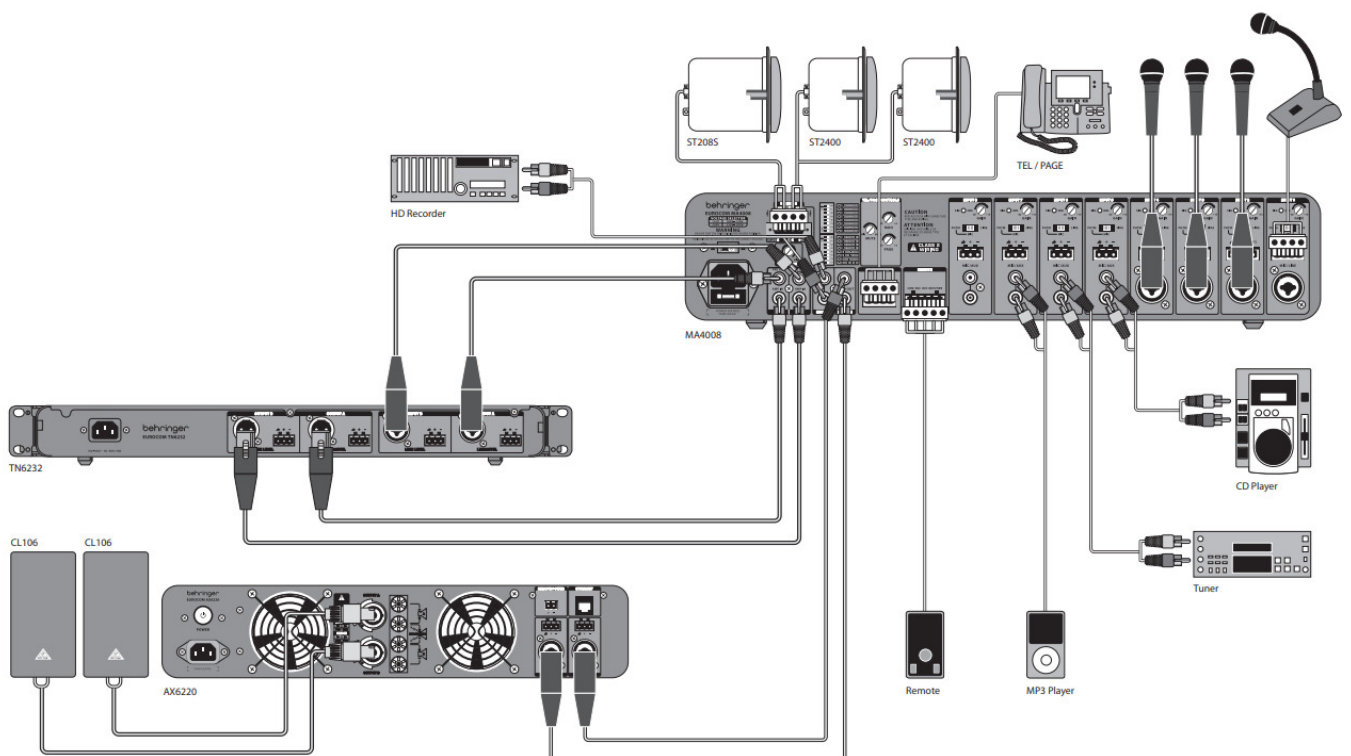
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer.



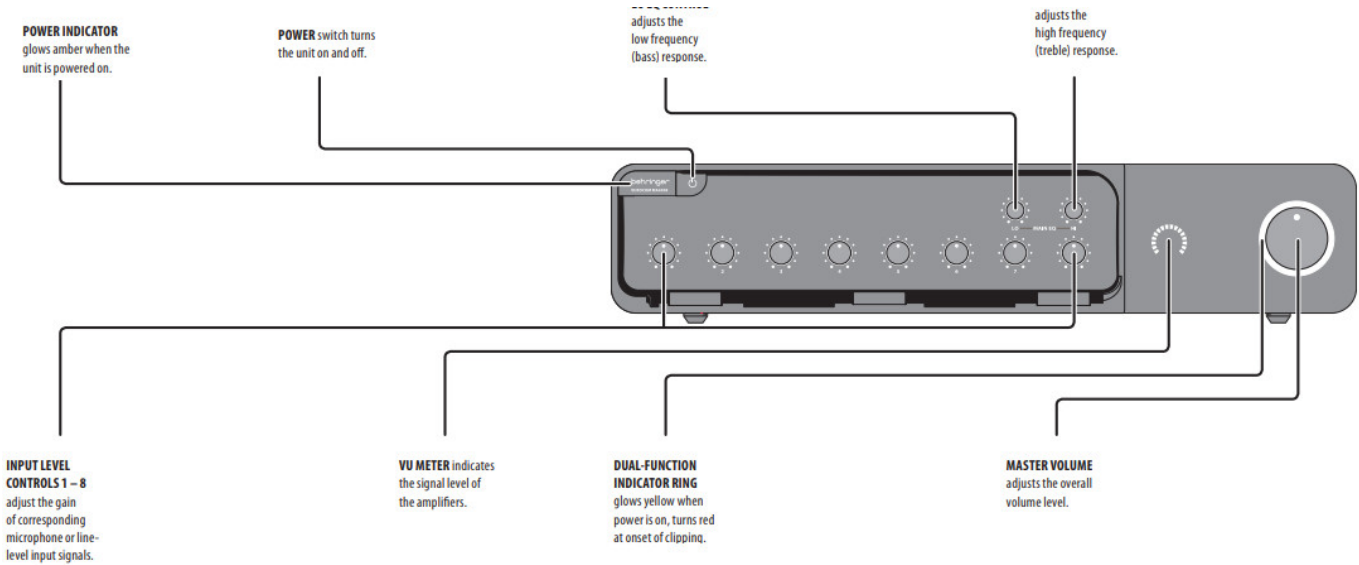
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
16.  Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

EUROCOM MA4008/MA4000M Hook-up

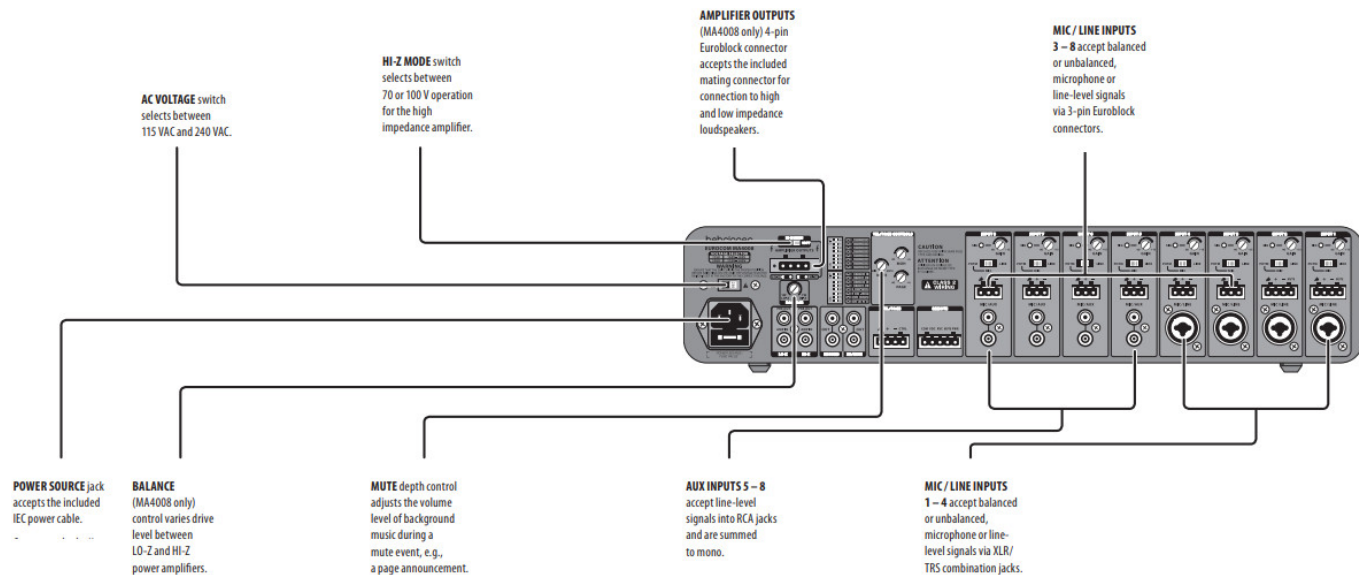
Step 1: Hook-Up MA4008 system setup



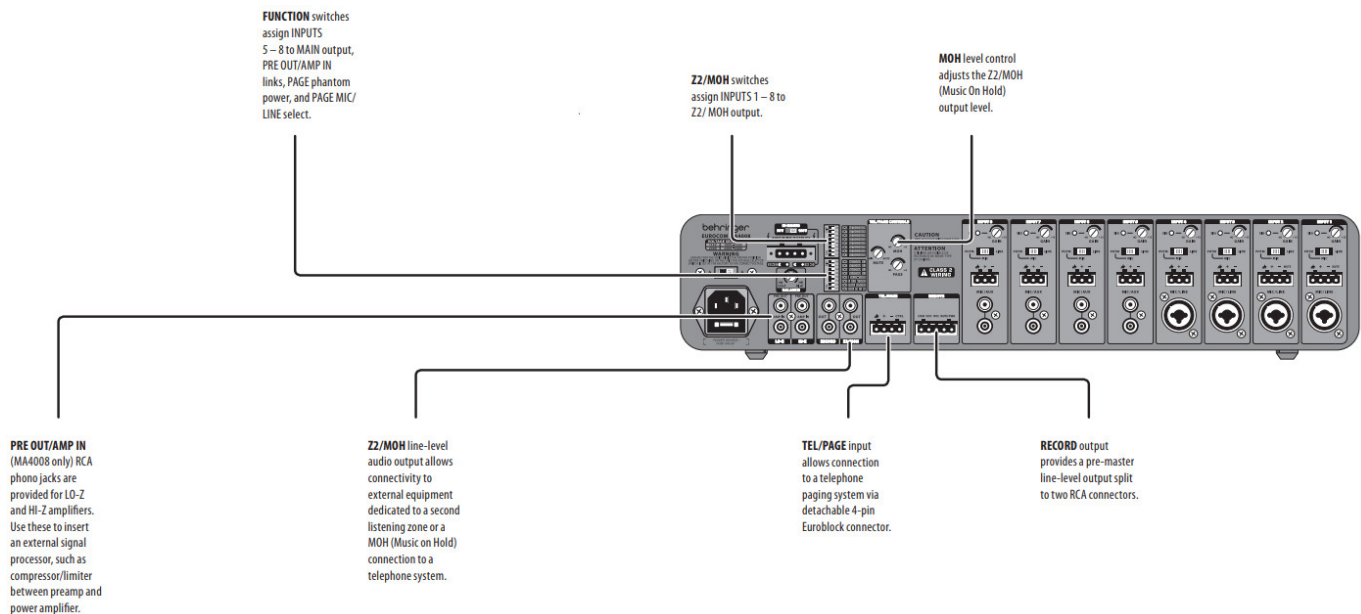
EUROCOM MA4008/MA4000M Hook-up
(EN) Step 1: Hook-Up



EUROCOM MA4008/MA4000M Controls
(EN) Step 2: Controls

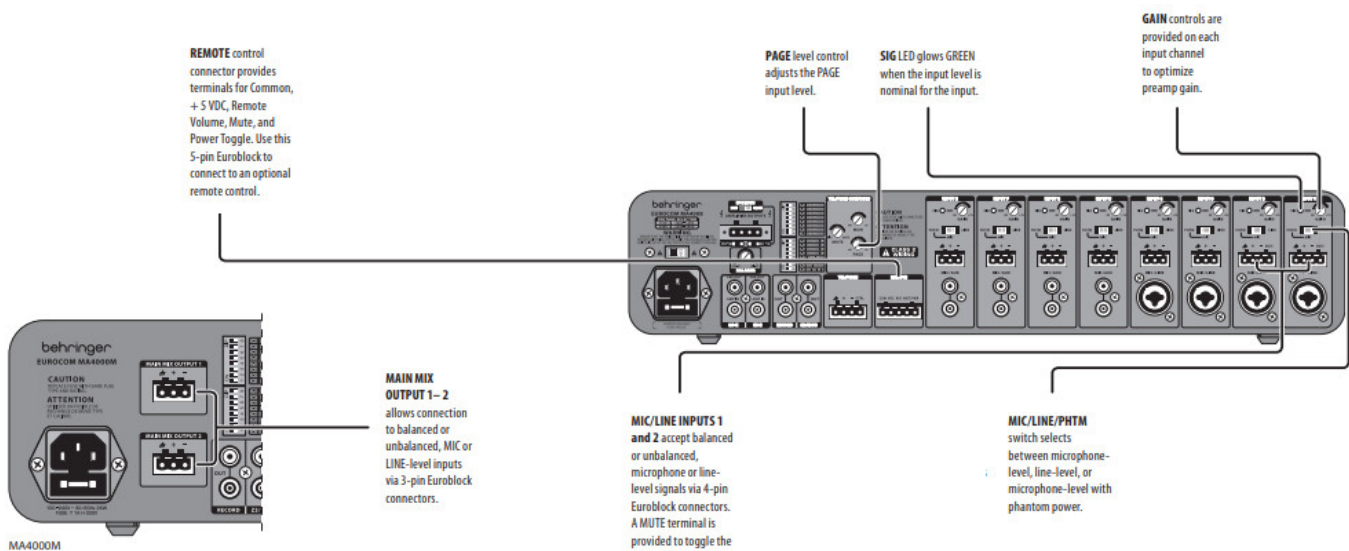


EUROCOM MA4008/MA4000M Controls
(EN) Step 2: Controls



EUROCOM MA4008/MA4000M Controls

Step 2: Controls



EUROCOM MA4008/MA4000M Getting started

Step 3: Getting started

Connections

MA4008 / MA4000M

1. Before terminating any wire, turn all equipment off and disconnect the AC power.
2. Make all appropriate audio and power connections to the MA4008 / MA4000M.
3. Set the input sensitivity switches for the MIC/LINE inputs to the appropriate position.

Select LINE for line-level signals, MIC for mic-level signals, or PHTM when using microphones that require phantom power.

MA4008 Amplifier Connections

1. Ensure the FUNCTION switches 3 and 4 are set to the ON position when not using the PRE OUT / AMP IN loop.
AMP IN loop.
2. Ensure the loudspeaker power requirement does not exceed the HI-Z amp's available power output. Add up the

total transformer taps oall the loudspeakers to be powered, e.g., four 70 V loudspeakers using 10 W transformer taps require 40 W of power.

Do not exceed 80 W for the MA4008.

3. Set the HI-Z MODE switch to either 70 or 100 V to match the system's loudspeaker voltage requirement.
4. Ensure the loudspeaker impedance does not exceed (not less than) the minimum load impedance of MA4008's LO-Z amplifier (4 Ω). For example, two 8 Ω loudspeakers connected in parallel equal a combined impedance of 4 Ω .

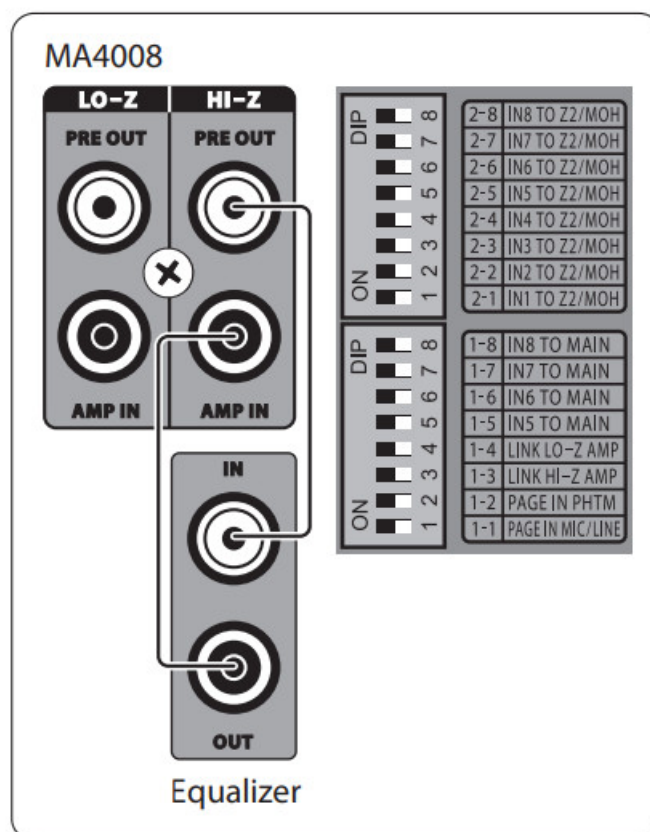
MA4000M MAIN OUTPUT Settings

Set DIP switches 1-4 (MAIN OUTPUT 1) or 1-3 (MAIN OUTPUT 2) to MIC or LINE level.

Inserting external processing (MA4008 only)

DIP switches 1-3 and 1-4 break the normally connected signal chain between the preamp and power amplifiers. Use this function to connect external signal processing equipment using the PRE OUT and AMP IN connections.

1. Set DIP switch 1-4 to the off position to insert external equipment to the LO-Z amplifier (use switch 1-3 for the HI-Z amplifier).
2. Connect the appropriate channel PRE OUT jack to the processor's line-level input connector.
3. Connect the processor's output to the appropriate channel AMP IN connector.



Volume and Gain

1. Before powering up, set INPUT LEVEL CONTROLS 1 – 8, rear panel GAIN controls 1 – 8, and MASTER VOLUME to the full counterclockwise (off) position.
2. Power on the unit
3. Slowly raise the rear panel GAIN control for the individual input channels until the green SIG LED illuminates.
4. Raise the MASTER VOLUME control to the 10 – 12 o'clock position.

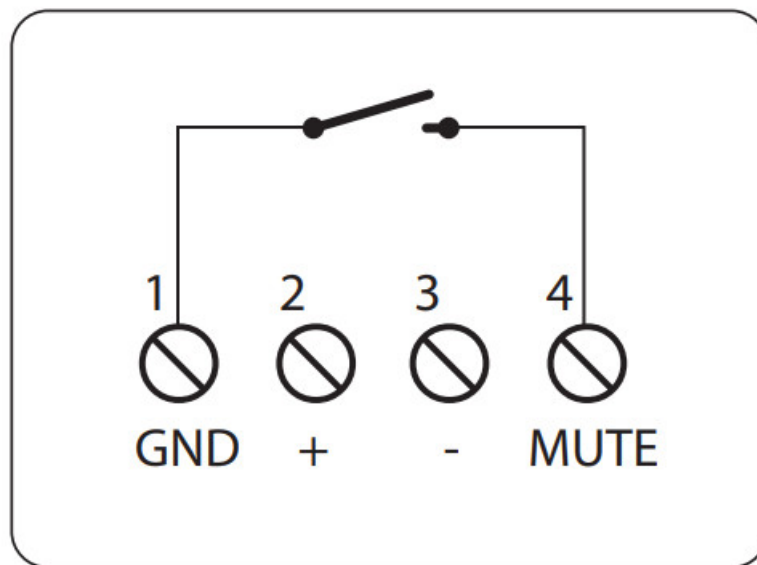
5. Slowly raise the front panel INPUT LEVEL CONTROLS for the individual input channels.
6. Adjust the MASTER VOLUME to the desired overall listening volume.
7. Adjust the LO and HI equalization controls to tailor system bass and treble response.
8. For the MA4008, adjust the BALANCE control to set the relative volume level between the 70 / 100 V loudspeakers and the 4 – 16 Ω loudspeakers.

Basic background music / paging system setup

The basic muting function lowers the volume level of background audio by a designated amount when the unit receives a contact-activated mute signal.

Contact-Activated Muting

Shorting pins 1 and 4 of any one of the MIC/ LINE or TEL/PAGE 4-pin Euroblock connectors activates the muting function. These terminals can be used for connection to a dedicated mute switch or contact closure from external equipment.

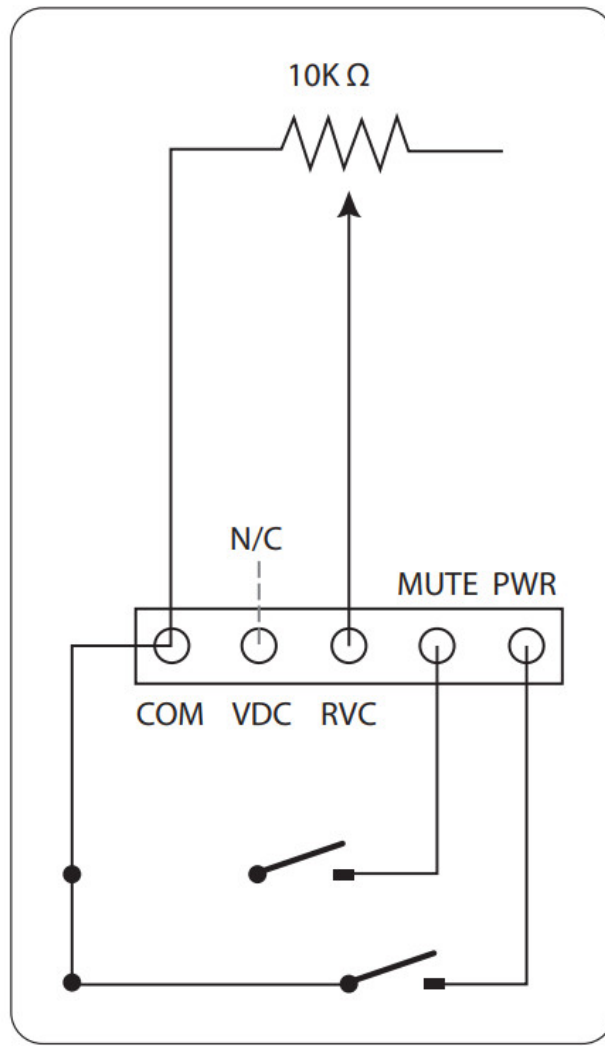


Turn the MUTE depth control to the full clockwise position for maximum attenuation. To defeat the mute function (0 dB attenuation), turn the MUTE DEPTH control to the full counterclockwise position.

1. Set the 3-position slide switch on INPUT 1 to MIC (center).
2. Connect a dynamic microphone to MIC/LINE INPUT 1.
3. Wire a N/O (normally-open) momentary switch to pins 1 and 4 of the 4-pin Euroblock connector on INPUT 1.
4. Set the 3-position slide switch on INPUT 5 to LINE (right).
5. Connect a line-level music source to AUX INPUT 5.
6. Set the MUTE DEPTH control to the full counterclockwise position (no attenuation).
7. Adjust the background music to the desired listening level using the volume control for AUX INPUT 4 on the front panel.
8. While speaking into the microphone and activating the attached MUTE switch, adjust the volume control for MIC INPUT 1 on the front panel and the MUTE DEPTH control on the rear panel so the announcement is clearly audible over the background music.

REMOTE Wiring Detail

A standard 10K Ω linear taper potentiometer can be connected for remote volume control. Momentary switches can be used to remotely-control system mute and power toggle.



EUROCOM MA4008/MA4000M Getting started

Step 3: Getting started Configuration Switches

MA4000M

Pin	Label	Internal Connection
1	ON	IN1 TO Z2/MOH
2	ON	IN2 TO Z2/MOH
3	ON	IN3 TO Z2/MOH
4	ON	IN4 TO Z2/MOH
5	ON	IN5 TO Z2/MOH
6	ON	IN6 TO Z2/MOH
7	ON	IN7 TO Z2/MOH
8	ON	IN8 TO Z2/MOH
9	DIP	PAGE IN MIC/LINE
10	DIP	PAGE IN PHTM
11	DIP	MIC/LINE OUT2
12	DIP	MIC/LINE OUT1
13	DIP	IN5 TO MAIN
14	DIP	IN6 TO MAIN
15	DIP	IN7 TO MAIN
16	DIP	IN8 TO MAIN
17	DIP	IN1 TO Z2/MOH
18	DIP	IN2 TO Z2/MOH
19	DIP	IN3 TO Z2/MOH
20	DIP	IN4 TO Z2/MOH
21	DIP	IN5 TO Z2/MOH
22	DIP	IN6 TO Z2/MOH
23	DIP	IN7 TO Z2/MOH
24	DIP	IN8 TO Z2/MOH

Switch	Channel	Function
2-8	INPUT 8	Assign to ZONE 2/MOH
2-7	INPUT 7	Assign to ZONE 2/MOH
2-6	INPUT 6	Assign to ZONE 2/MOH
2-5	INPUT 5	Assign to ZONE 2/MOH
2-4	INPUT 4	Assign to ZONE 2/MOH
2-3	INPUT 3	Assign to ZONE 2/MOH
2-2	INPUT 2	Assign to ZONE 2/MOH
2-1	INPUT 1	Assign to ZONE 2/MOH
Switch	Channel	Function
1-8	INPUT 8	Assign to MAIN ZONE
1-7	INPUT 7	Assign to MAIN ZONE
1-6	INPUT 6	Assign to MAIN ZONE
1-5	INPUT 5	Assign to MAIN ZONE
1-4	MAIN MIX OUTPUT 1	Assign Mic or Line-level
1-3	MAIN MIX OUTPUT 2	Assign Mic or Line-level
1-2	PAGE IN	Assign Phantom Power
1-1	PAGE IN	Assign Mic or Line-level

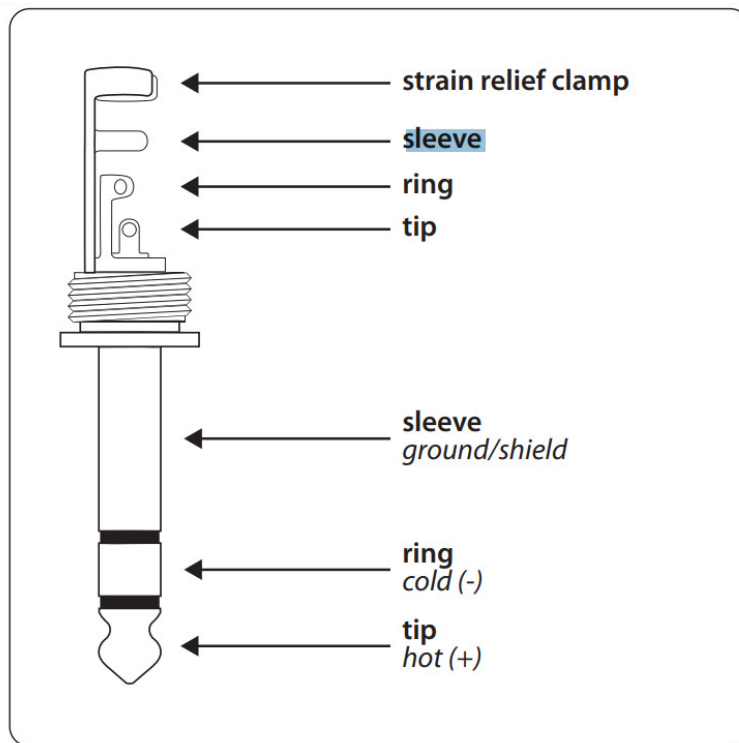
MA4008

The diagram illustrates the 28-pin DIP package for the 74VHC00. The package is shown from the top and bottom. The top view shows pins 1-8 on the left and 15-22 on the right. The bottom view shows pins 9-16 on the left and 23-30 on the right. Each pin is labeled with its number and a logic symbol. The logic symbols are: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30. The logic symbols are: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30.

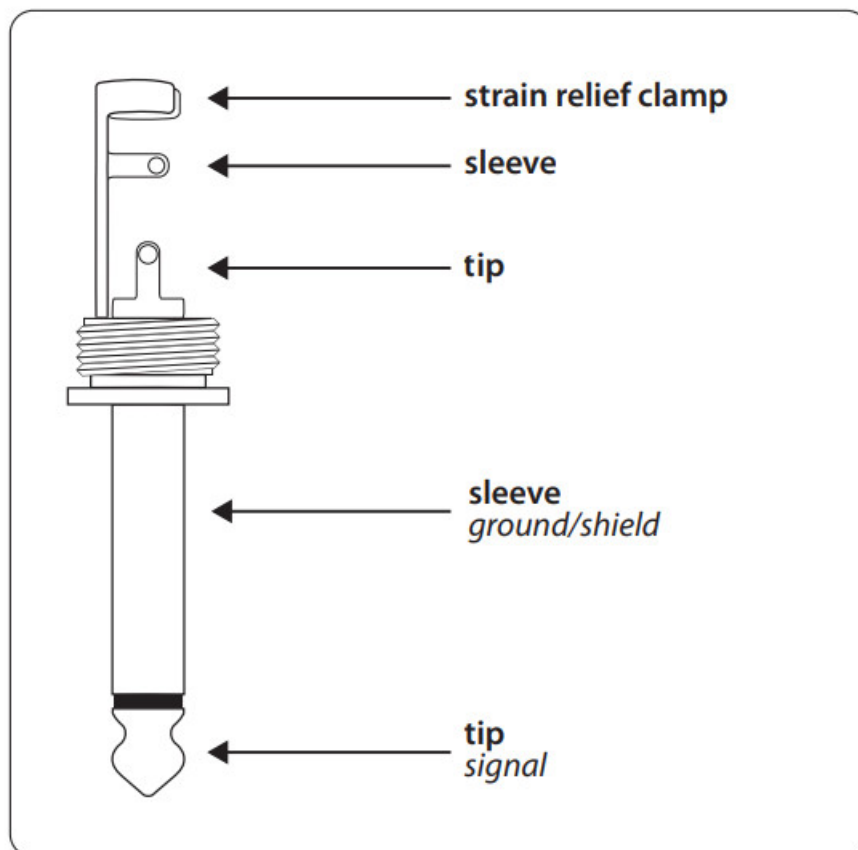
Switch	Channel	Function
2-8	INPUT 8	Assign to ZONE 2/MOH
2-7	INPUT 7	Assign to ZONE 2/MOH
2-6	INPUT 6	Assign to ZONE 2/MOH
2-5	INPUT 5	Assign to ZONE 2/MOH
2-4	INPUT 4	Assign to ZONE 2/MOH
2-3	INPUT 3	Assign to ZONE 2/MOH
2-2	INPUT 2	Assign to ZONE 2/MOH
2-1	INPUT 1	Assign to ZONE 2/MOH
Switch	Channel	Function
1-8	INPUT 8	Assign to MAIN ZONE
1-7	INPUT 7	Assign to MAIN ZONE
1-6	INPUT 6	Assign to MAIN ZONE
1-5	INPUT 5	Assign to MAIN ZONE
1-4	LINK LO-Z AMP	Link PRE OUT to LO-Z AMP IN
1-3	LINK HI-Z AMP	Link PRE OUT to HI-Z AMP IN
1-2	PAGE IN	Assign Phantom Power
1-1	PAGE IN	Assign Mic or Line-level

Connectors

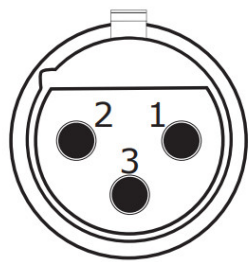
Balanced 1/4" TRS Connector



Unbalanced 1/4" TS Connector



Balanced XLR Connectors

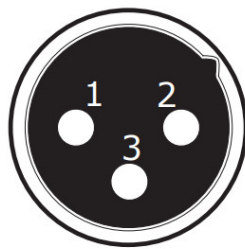


input

1 = ground/shield

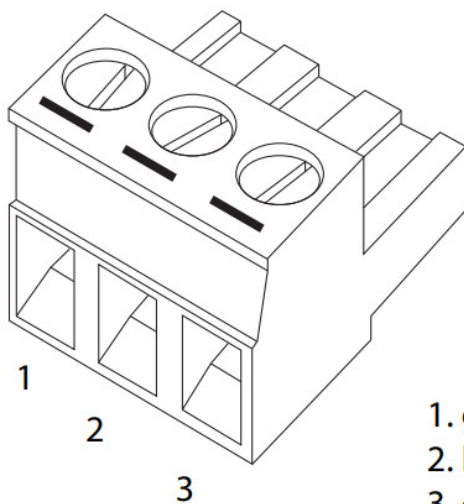
2 = hot (+)

3 = cold (-)



output

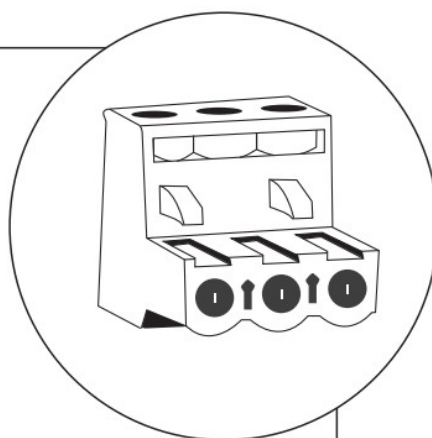
3-Pin Euroblock Connector – Input / Output



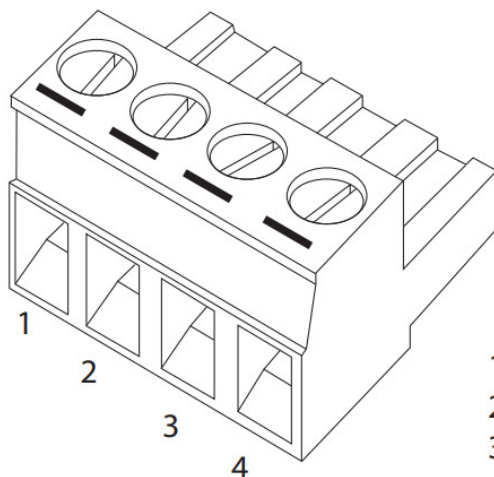
1. ground/shield

2. hot (+)

3. cold (-)



4-Pin Euroblock Connector – Input

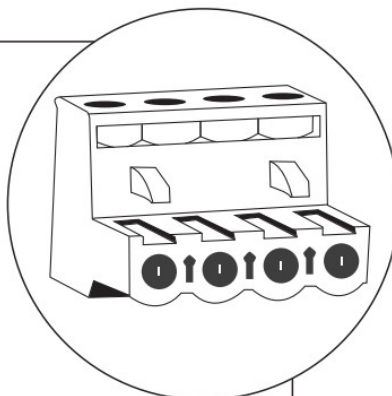


1. ground/shield

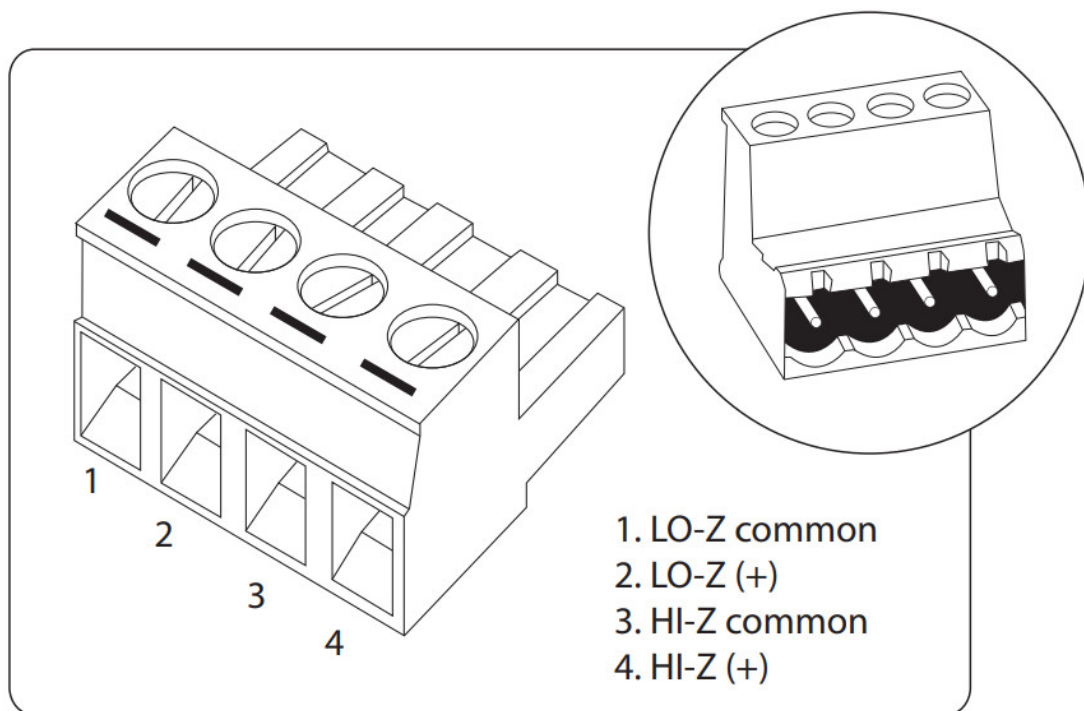
2. hot (+)

3. cold (-)

4. mute



5-Pin Euroblock Connector – Remote



Specifications

	MA4008	MA4000M
Audio Inputs		
Mic / Line Inputs 1 & 2		
Type	2 x XLR / 1/4" TRS combo jacks 2 x 4-pin Euroblock in parallel	
Impedance	Mic: -50 to 0 dBV, 600 Ω Line: -27 to 0 dBV, 600 Ω Electronically balanced	
Mic / Line Inputs 3 & 4		
Type	2 x XLR / 1/4" TRS combo jacks 2 x 3-pin Euroblock in parallel	
Impedance	Mic: -50 to 0 dBV, 600 Ω Line: -27 to 0 dBV, 600 Ω Electronically balanced	
Inputs 5 – 8		
Type	4 x 3-pin Euroblock, electronically balanced	
Impedance	Mic: -50 to 0 dBV, 600 Ω Line: -27 to 0 dBV, 600 Ω	
Auxiliary		
Type	4 x RCA stereo summed	
Impedance	-10 dBV, 10 kΩ, unbalanced	Line: -10 dBV, 10 kΩ, unbalanced
Tel / Page input	1 x 4-pin Euroblock	

Impedance	Mic: -50 to 0 dBV, 600 Ω Line: -27 to 0 dBV, 600 Ω	
Power amp input	1 x dual RCA jack	—
Impedance	0 dBV, 600 Ω, unbalanced	—
Phantom power	24 VDC, switchable Inputs 1– 8 and Tel/Page	
Audio Outputs		
Amplifier output	1 x 4-pin female Euroblock	—
LO-Z	2 terminals @ 4 Ω	—
HI-Z	2 terminals @ 70 V / 100 V, switchable	—
Output regulation	< 2 dB, no load to full load	—
Main mix outputs 1 & 2	—	2 x 3-pin male Euroblock, Mic/Line switchable
Impedance	—	Mic: -40 dBV, 1 kΩ Line: 0 dBV, 600 Ω Electronically balanced
Preamp output	1 x dual RCA jack	—
Impedance	0 dBV, 600 Ω, unbalanced	—
Z2 / Mon output	1 x dual RCA jack	
Impedance	0 dBV, 600 Ω, unbalanced	
Record output	1 x dual RCA jack	
Impedance	0 dBV, 600 Ω, unbalanced	
Amplifier		
Amplifier channels	LO-Z: 1 x 4 Ω, minimum HI-Z: 1 x 70 / 100 V, switchable	—
Power output LO-Z 1% THD, 1 kHz sine wave	80 W RMS @ 8 Ω 160 W RMS @ 4 Ω	—
Min. impedance	4 Ω	—
Power output HI-Z 1% THD, 1 kHz sine wave	80 W RMS @ 70 V 80 W RMS @ 100V	—
Min. impedance	62 Ω @ 70 V 125 Ω @ 100 V	—
System Information		
Dynamic range	Mic: 65 dB Line: 80 dB	
THD+N	0.5% @ 1 kHz, rated output	
Frequency response	50 Hz – 18 kHz, +/- 2 dB	

Tone controls	Low: +/- 12 dB @ 100 Hz High: +/- 12 dB @ 10 kHz	
Control Connections		
Remote	1 x 5-pin Euroblock connector	
Volume	10 kΩ linear-taper potentiometer	
Power	+5 VDC voltage make contact input; no open voltage	
Mute	No-voltage make contact input; open voltage 5 VDC Short circuit: < 10 mA	
DC power	+5 VDC, 100 mA Current limited, short-circuit protected	
Tel / Page	1 x 4-pin Euroblock, 1 terminal	
Mute	No-voltage make contact input; open voltage 24 VDC Short circuit: < 10 mA	
Inputs 1 & 2	2 x 4-pin Euroblock, 1 terminal each	
Mute	No-voltage make contact input; open voltage 24 VDC Short circuit: < 10 mA	
Indicators		
Power	LED ring illumination (Yellow)	
Overload / protection	LED ring indication (Red)	
Output level	LED VU output meter (Yellow and Red while clipping)	
Power Supply (Fuses)		
Mains voltage	Switchable, 100 ~ 120/220 ~ 240 VA C, 50/60 Hz	100 ~ 240 VAC, 50/60 Hz
Fuse	T 5 AH 250 V / T 2.5 AH 250V	T 1 AH 250 V
Power efficiency	68% (max.)	—
Power consumption	52 W @ idle 70 W @ 1/8 power 113 W @ 1/3 power 234 W @ full power	26 W
Mains connector	Standard IEC receptacle	
Dimensions / Weight		
Dimensions (H x W x D)	appr. 3.5 x 17 x 16" appr. 88 x 432 x 406 mm	
Weight	appr. 13.4 lbs / 6.1 kg	appr. 10.2 lbs / 4.6 kg

Other important information

Important information

1. Register online.

Please register your new MUSIC Group equipment right after you purchase it by visiting behringer.com. Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.

2. Malfunction.

Should your MUSIC Group Authorized Reseller not be located in your vicinity, you may contact the MUSIC Group Authorized Fulfiller for your country listed under "Support" at behringer.com. Should your country not be listed, please check if your problem can be dealt with by our "Online Support" which may also be found under "Support" at behringer.com. Alternatively, please submit an online warranty claim at behringer.com BEFORE returning the product.

3. Power Connections.

Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION



EUROCOM MA4008/MA4000M

Responsible Party Name: MUSIC Group Services US Inc.

Address: 18912 North Creek Parkway, Suite 200 Bothell, WA 98011, USA

Phone/Fax No.: Phone: +1 425 672 0816; Fax: +1 425 673 7647

EUROCOM MA4008/MA4000M

complies with the FCC rules as mentioned in the following paragraph:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

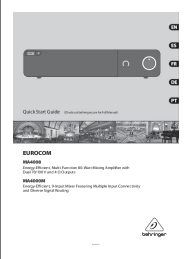
Important information:

Changes or modifications to the equipment not expressly approved by MUSIC Group can void the user's authority to use the equipment.


eurocom
installed sound



Documents / Resources

	<p>behringer EUROCOM MA4008 Multi-Function 80-Watt Mixing Amplifier [pdf] User Guide MA4008, EUROCOM MA4000M, EUROCOM MA4008 Multi-Function 80-Watt Mixing Amplifier, Multi-Function 80-Watt Mixing Amplifier, 80-Watt Mixing Amplifier, Mixing Amplifier, Amplifier</p>
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