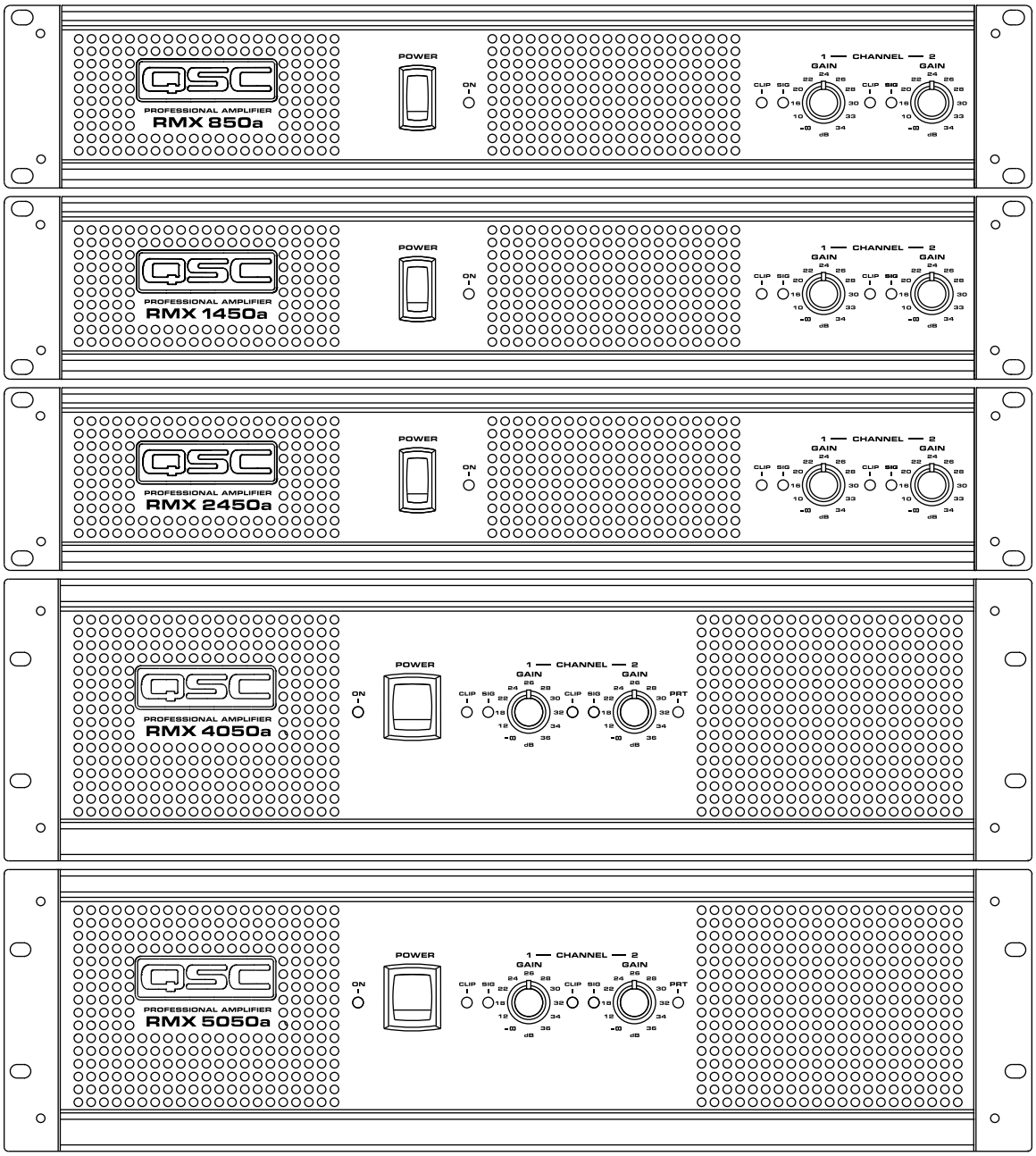
RMXa

User Manual



TD-000407-00-A

EXPLANATION OF SYMBOLS

The term "**WARNING!**" indicates instructions regarding personal safety. If the instructions are not followed the result may be bodily injury or death.

The term "**CAUTION!**" indicates instructions regarding possible damage to physical equipment. If these instructions are not followed, it may result in damage to the equipment that may not be covered under the warranty.

The term "**IMPORTANT!**" indicates instructions or information that are vital to the successful completion of the procedure.

The term "**NOTE**" is used to indicate additional useful information.



The intent of the lightning flash with arrowhead symbol in a triangle is to alert the user to the presence of un-insulated "dangerous" voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to humans.



The intent of the exclamation point within an equilateral triangle is to alert the user to the presence of important safety, and operating and maintenance instructions in this manual.

IMPORTANT SAFETY INSTRUCTIONS



WARNING!: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

EN

- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation opening. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 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.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 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.
- The appliance coupler, or the AC Mains plug, is the AC mains disconnect device and shall remain readily operable after installation. On units equipped with powerCon® connectors, the AC Mains disconnect device is the AC Mains plug only; do not use the appliance coupler.
- Adhere to all applicable, local codes.
- Consult a licensed, professional engineer when any doubt or questions arise regarding a physical equipment installation.

RoHS Statement

The RMXa products are in compliance with European Directive 2002/95/EC – Restriction of Hazardous Substances (RoHS).

The RMXa products are in compliance with "China RoHS" directives. The following chart is provided for product use in China and its territories:

	RMXa					
部件名称 (Part Name)	有毒有害物质或元素 (Toxic or hazardous Substances and Elements)					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(vi))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
电路板组件 (PCB Assemblies)	X	O	X	O	O	O
机壳装配件 (Chassis Assemblies)	X	O	X	O	O	O

O: 表明这些有毒或有害物质在部件使用的同类材料中的含量是在 SJ/T11363_2006极限的要求之下。

O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.

X: 表明这些有毒或有害物质在部件使用的同类材料中至少有一种而含量是在SJ/T11363_2006极限的要求之上。

X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.

EN

FCC Statement

NOTE: 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.

NOTE: 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.

Warranty (USA only; other countries, see your dealer or distributor)

QSC Audio Products 3-Year Limited Warranty

QSC Audio Products, LLC ("QSC") guarantees its products to be free from defective material and/or workmanship and will replace defective parts and repair malfunctioning products under this warranty when the defect occurs under normal installation and use, provided the unit is returned to our factory, one of our authorized service stations or an authorized QSC International Distributor via pre-paid transportation with a copy of proof of purchase (i.e., sales receipt). This warranty provides that the examination of the return product must indicate, in our judgment, a manufacturing defect. This warranty does not extend to any product which has been subjected to misuse, neglect, accident, improper installation, or where the date code has been removed or defaced. QSC shall not be liable for incidental and/or consequential damages. This warranty gives you specific legal rights. This limited warranty is freely transferable during the term of the warranty period. The warranty on QSC products is NOT VALID if the products have been purchased from an unauthorized dealer/online e-tailer, or if the original factory serial number has been removed, defaced, or replaced in any way. Damage to, or loss of any software or data residing on the product is not covered. When providing repair or replacement service, QSC will use reasonable efforts to reinstall the product's original software configuration and subsequent update releases, but will not provide any recovery or transfer of software or data contained on the serviced unit not originally included in the product.

Customers may have additional rights, which vary from state to state or from country to country. In the event that a provision of this limited warranty is void, prohibited or superseded by local laws, the remaining provisions shall remain in effect.

The QSC limited warranty is valid for a period of three (3) years from date of purchase in the United States and many (but not all) other countries.

For QSC warranty information in countries other than the United States, contact your authorized QSC international distributor. A list of QSC International distributors is available at www.qsc.com.

To register your QSC product online, go to www.qsc.com and select "Product Registration". Other questions regarding this warranty can be answered by calling, e-mailing or contacting your authorized QSC distributor.

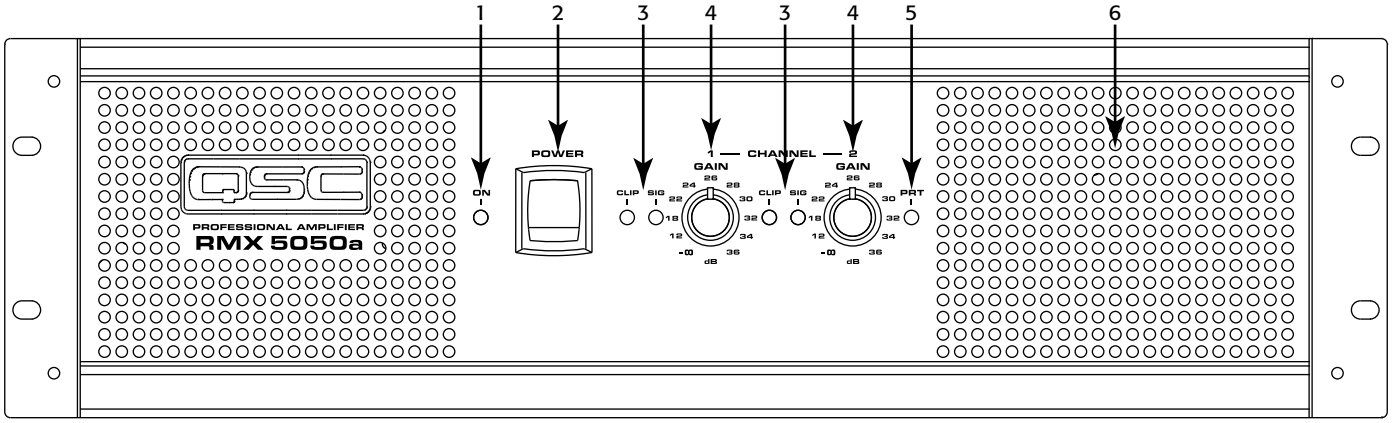
Phone: 1-800-854-4079 within US and Canada, +1-714-754-6175 international, **Email:** warranty@qscaudio.com, **Website:** www.qsc.com.

Key Features

- 2 channels
- XLR, TRS, and barrier strip screw terminal input connectors
- NL4 and binding post output connectors
- Each channel has independent Clip Limiter and Low Frequency Filter (30 or 50 Hz)
- Stereo, Bridge Mono, and Parallel modes of operation
- QSC reliability
- Complete amplifier protection

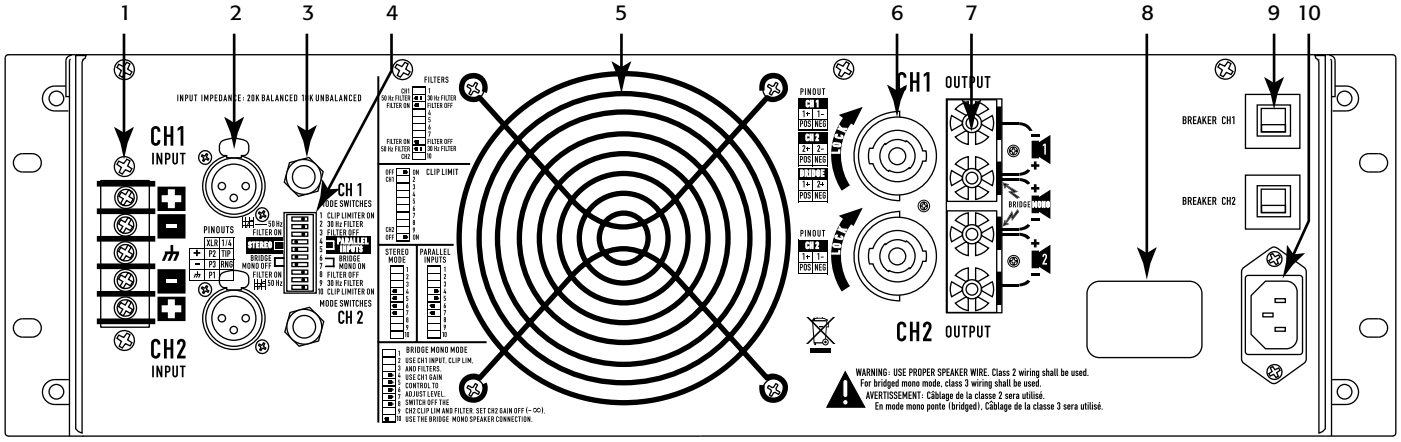
Controls, Connectors & Features

The illustrations below are for the RMX 5050a which is similar to the RMX 4050a. The 2RU units do not have the Protect Mode indicator (#5).



– Figure 1 –

1. Power On indicator
2. Power switch
3. Clip and Signal indicators
4. Gain controls
5. Protect mode indicator
6. Cooling air exhaust vents indicator



– Figure 2 –

1. Barrier strip input connectors
2. XLR input connectors
3. TRS (1/4") input connectors
4. Mode switches and settings
5. Cooling fan
6. NL4 output connectors
7. Binding post output connectors
8. Serial number label
9. AC circuit breakers
10. IEC power inlet (power cord connector)

Unpacking

1. RMX amplifier
2. Quick Start Guide
3. Adhesive rubber feet (for non-rack mount applications)
4. Rear rack ear mounting kit
5. IEC-type detachable power cord

Rack Mounting

Use four screws and washers to mount the amplifier to the equipment rack rails. To use the amplifier outside a rack, attach the self-adhesive rubber feet to the bottom. Use the rear rack ear support kit to support the rear of the amplifier for portable use.

When installing equipment into a rack, distribute the units evenly. Otherwise, hazardous conditions may be created by an uneven weight distribution.

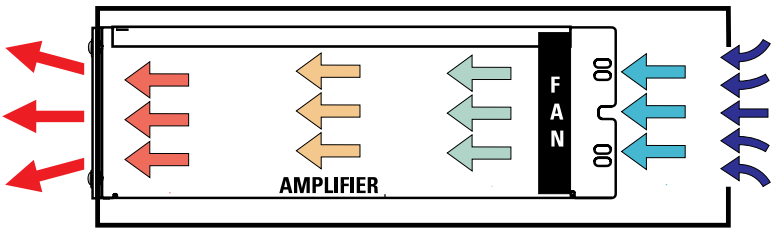
Cooling

Air flows from the rack, into the back of the amplifier, and out the front. This keeps the rack cool. The fan automatically runs faster when the amp is working hard.

EN

Air flow in QSC amplifiers: Cool air is drawn into the rear of the amplifier by the cooling fan. Warm air exits the front of the amplifier.

CAUTION!: Do not block the front or rear air vents!



– Figure 3 –

AC Mains

Connect AC power to the IEC socket on the back of the amplifier. NOTE: Turn off the AC power switch before connecting AC power.

WARNING!: The correct AC line voltage is shown on the serial number label, on the rear panel. Connecting to the wrong line voltage may damage the amplifier or increase the risk of electric shock.

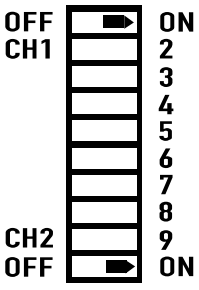
Setting The Mode Switches

The RMX 4050a and RMX5050a have Mode switches for Stereo, Parallel, or Bridge Mode. Additionally, each channel has independent Clip Limiting and Low Frequency (LF) Filtering.

Setting Clip Limiters

Each channel has a Clip Limiter with its own on-off switch. The limiter only responds to actual clipping, and automatically compensates for load and voltage variations. Clip limiting is generally recommended, especially to protect high frequency drivers.

- Set switch to the right to use Clip Limiting.
- Switch 1 controls Channel 1.
- Switch 10 controls Channel 2.



– Figure 4 –

Selecting Stereo, Parallel, Or Bridge Mode

The amplifier can be set for normal Stereo operation, Parallel input Mode, or Bridge Mono Mode.

Stereo Mode- Each channel remains independent. The amplifier may be used for two different signals.

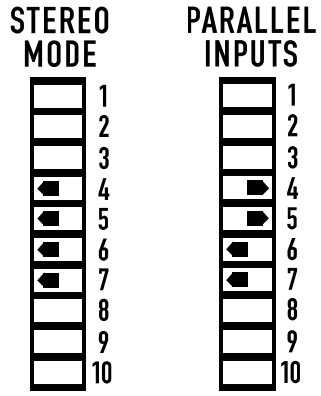
Stereo Mode - Switches 4, 5, 6 and 7 are all set to the LEFT position.

Parallel Mode - This setting connects both inputs together. One signal feeds both channels. Each channel's Gain control and loudspeaker connection remain independent.

Parallel Mode - Switches 4, and 5, are set to the RIGHT position. Switch 6 and 7 are set to the LEFT position

Bridge Mode- This setting combines both channels into a single channel with twice the output power. Use only the first channel's input and Gain control. Set the second channel's Gain control at minimum. The load must be rated for the higher output power, and is connected as shown in the Outputs section.

Bridge Mode- Switches 4, 5, 6,7 and 8 are all set to the RIGHT position and Switch 10 is set to the LEFT position.

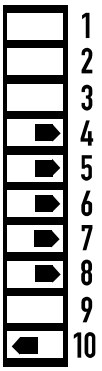


– Figure 5 –

– Figure 6 –

CAUTION!: Do not connect different inputs to each side of a channel pair when operating in Parallel or Bridge Mode.

EN



BRIDGE MONO MODE

USE CH1 INPUT, CLIP LIM, AND FILTERS. USE CH1 GAIN CONTROL TO ADJUST LEVEL. SWITCH OFF THE CH2 CLIP LIMAND FILTER. SET CH2 GAIN OFF (-∞). USE THE BRIDGE MONO SPEAKER CONNECTION.

– Figure 7 –

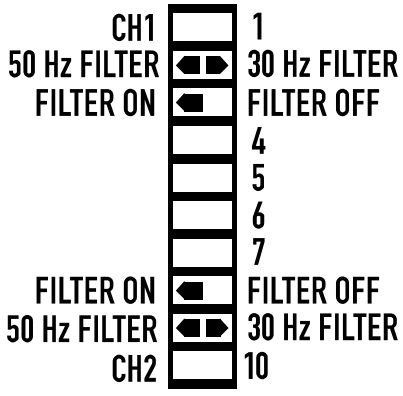
Setting Low Frequency Filters

Each channel has a 12dB per octave Low Frequency Filter to prevent cone overexcursion, making more power available for the loudspeaker's rated frequency range. This reduces distortion and prevents amplifier overload.

The Filter should only be turned off for driving subwoofers with special low frequency capability. Otherwise, unless you have filtering in the signal path preceding the amplifier, use the Low Frequency Filter. The loudspeaker's documentation will specify the low frequency limit.

Each channel has its own switches for LF Filter on/off and frequency selection.

- Channel 1 uses switches 2,3.
- Channel 2 uses switches 8,9.
- Switches 3 and 8 turn the LF Filter ON.
- Switches 2 and 9 select 30Hz or 50 Hz.



– Figure 8 –

Barrier Strip Inputs

Each channel has a balanced 3-terminal input. Wiring is connected with simple hand tools, and inputs can be changed quickly.

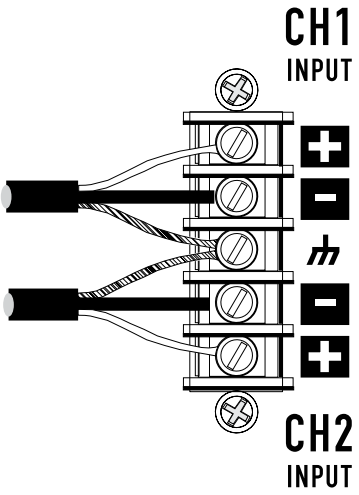
The input impedance is 20k ohm balanced or 10k ohm unbalanced.

Balanced connections are recommended to reduce AC hum and interference, especially with long cable runs. Unbalanced connections may be suitable for short cables. The signal's source impedance should be less than 600 ohms.

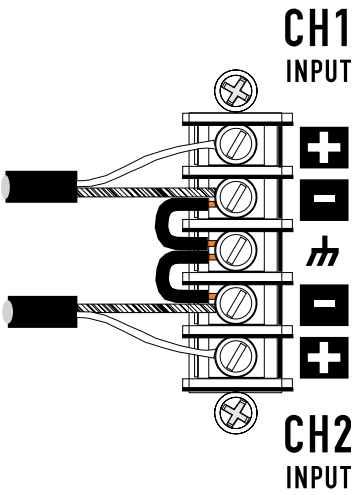
Balanced inputs: Strip the wires ¼ inch (6 mm) and connect to the terminals as shown. Be sure to tighten the screws firmly. (See Figure 9)

If unbalanced connections are required, connect a jumper wire between the minus (-) terminal and the ground terminal. Then connect the input signal to the positive (+) terminal and the shield to the minus or ground terminal.

Unbalanced inputs: Strip the wire ¼ inch and connect a jumper wire between the minus (-) terminal and the ground terminal. Then connect the input signal to the positive (+) terminal and the shield to the minus or ground terminal, as shown. Be sure to tighten the screws firmly. (See Figure 10)



– Figure 9 –



– Figure 10 –

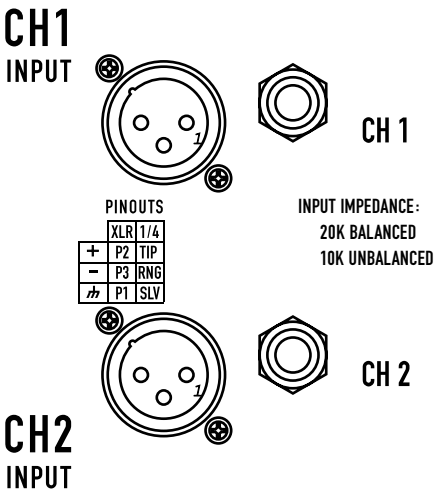
XLR and TRS (1/4”) Inputs

Each channel has a balanced 3-terminal XLR and TRS input. Inputs are connected with standard cables and can be changed quickly. Pinouts are marked on the rear panel and shown in the illustration.

The input impedance is 20k ohm balanced or 10k ohm unbalanced.

Balanced connections are recommended to reduce AC hum and interference, especially with long cable runs. Unbalanced connections may be suitable for short cables. The signal's source impedance should be less than 600 ohms.

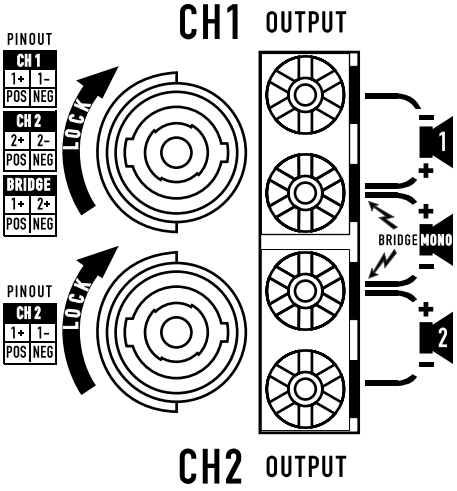
Unbalanced TRS connectors (2-terminal) automatically connect the minus (-) terminal to ground when inserted.



– Figure 11 –

Outputs

- Wiring connections are shown on the back of the chassis.
- Binding Post Outputs
- Stereo and Parallel Mode: Wire as shown by loudspeaker symbols 1 and 2.
- Bridge Mode: Wire as shown by Bridge Mono loudspeaker symbol.



– Figure 12 –

NL4 Outputs

Each channel accepts a normal 2-wire cable. In addition, Channel 1 accepts 4-wire cables for single cable stereo or bi-amp connection.

WARNING!: OUTPUT TERMINAL SAFETY WARNING! Do not touch output terminals while amplifier power is on. Make all connections with amplifier turned off. Risk of hazardous energy!

WARNING!: Stereo and Parallel Mode- Connect each loudspeaker to its own channel of the amplifier, as shown on the left side of the chassis label. The Mode configuration switches must be set for Stereo or Parallel Mode.

EN

Bridge Mode- Bridge Mode configures the channel pair to drive a single audio circuit. The Mode configuration switches must be set for Bridge Mode.

Connect the load as shown on the right side of the binding posts or to the left on Channel 1's NL4. 4 ohms is the minimum impedance for Bridge Mode use.

CAUTION!: Do not use less than 4 ohm load in Bridge Mode! Note polarity of connection for Bridge Mode.

CAUTION!: OUTPUT WIRING WARNING: CLASS 2 WIRING SHALL BE USED. FOR BRIDGED MONO MODE, CLASS 3 WIRING SHALL BE USED.

LED Indicators

The LED indicators can be used to monitor system operation and identify common problems.

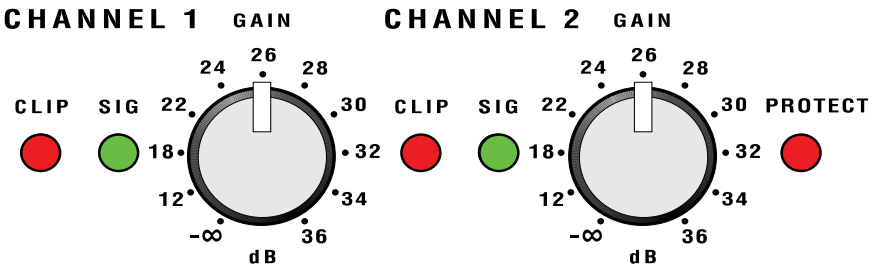
POWER: A single blue indicator, on left side of AC power switch.

Normal indication: AC switch ON: indicator will illuminate.

If no indication: Check AC power cord and AC outlet. Check rear panel circuit breakers.

CLIP: red

Normal indication: Illuminates whenever the amplifier is driven beyond full power. The LED's brightness indicates the amount of distortion. Distortion that causes only brief flashing may not be audible. During muting, the indicator fully illuminates. This occurs during normal "On-Off" muting.



– Figure 13 –

Abnormal indication:

- Bright red illumination while the amp is being used indicates either thermal muting or a shorted output.
- If the amplifier overheats, the fan will run at full speed, and operation should resume within one minute. Allow the fan to run, and make sure the amplifier ventilation is adequate.
- A shorted or overloaded output circuit will cause excessive Clip flashing and possible overheating.
- If distortion is audible without a Clip indication, the problem is either before or after the amplifier. Check for damaged speakers or overloaded signal source. The amplifier Gain control should be in the upper half of its range to prevent input overload.

SIGNAL: green, to the left of each Gain control.

Normal indication: illuminates when the input signal exceeds -35 dB. As signal approaches full power, the indicator will illuminate continuously.

If no indication: check Gain settings and increase Gain if necessary. Check input connections and audio source for signal. If the Clip indicator illuminates with little or no Signal indication, check the output wiring for shorts.

Abnormal indication: If the Signal indicator illuminates with no signal input, there may be system oscillations or some other malfunction. Disconnect the load and fully reduce the Gain. If the signal indicator remains on, the amp may need servicing.

PROTECT: red, on the right side of Gain control group. (Not available on the 2RU Units)

Normal indication: illuminates when the amplifier goes into protective muting. Under normal operation, this indicator will not be illuminated.

EN

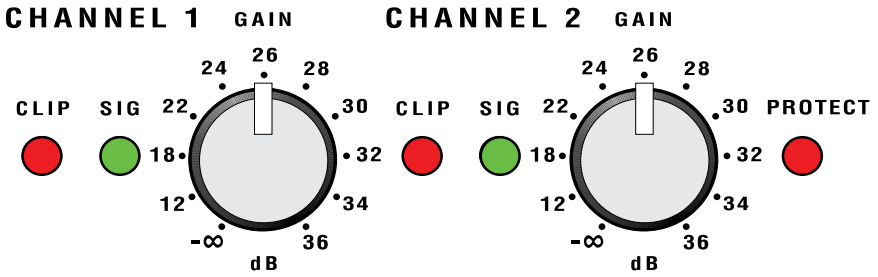
Abnormal indication: If the Protect indicator illuminates, the amplifier is in protective muting. Leave the Power On to allow the fan to cool the amplifier. Check the rear panel circuit breakers; if either is tripped, reset it by pushing on the center of the control. When the amplifier has cooled sufficiently, the Protect indicator will extinguish and normal operation will resume.

NOTE: If both rear panel circuit breakers are tripped, the Protect indicator will not be illuminated.

Gain Controls

Turn the Gain controls clockwise to increase Gain and counterclockwise to decrease Gain. At the maximum setting, the voltage Gain of the amplifier is +36 dB. The RMX 4050a will produce 800 watts into 8 ohms when driven with a 1.26V input signal. The RMX 5050a produce 1050 watts into 8 ohms when driven with a 1.42V input signal.

The Gain controls are marked in dB of gain. Settings should normally be made within the upper half of the adjustment range. The range below 22 dB should not be used for normal program levels, as the input headroom could be exceeded, but can be used for testing at reduced levels. At the minimum setting, the signal is completely cut off.



– Figure 14 –

CAUTION!: Continuous operation at high power may trigger the thermal protection circuitry, shutting down the amplifier and fully illuminating the Protect indicator. Operation will resume after the amplifier has cooled down sufficiently.

NOTE: If both rear panel circuit breakers are tripped, the Protect indicator will not be illuminated.

Specifications

	RMX 850a	RMX 1450a	RMX 2450a
OUTPUT POWER in watts			
8Ω / FTC 20 Hz - 20 kHz / 0.1% THD	185 W	260 W	450 W
8Ω / EIA 1 KHZ / 0.1% THD	200 W	300 W	500 W
4Ω / FTC 20 HZ - 20 KHZ / 0.1% THD	280 W	400 W	650 W
4Ω / EIA 1 KHZ / 0.5% THD	300 W	500 W	800 W
2Ω / EIA 1 KHZ / 1% THD	430 W	700 W	1200 W
Bridge Mode			
8Ω / FTC 20 Hz - 20 kHz / 0.1%THD	530 W	800 W	1300 W
8Ω / EIA 1 kHz / 0.1%THD	600 W	900 W	1500 W
4Ω / EIA 1 kHz / 1%THD	830 W	1400 W	2400 W
DYNAMIC HEADROOM	2 dB @ 4 ohms		
DISTORTION SMPTE-IM	<0.01%		<0.02%
FREQUENCY RESPONSE (at 10 dB below rated output power)	20 Hz to 20 kHz, 8 ohms, LF Filter bypassed: +0, -1 dB 5 Hz to 50 kHz, 8 ohms, LF Filter bypassed: +0, -3 dB		
DAMPING FACTOR	>300 @ 8 OHMS		
NOISE (unweighted)	100 dB below rated output from 20 Hz to 20 kHz		
VOLTAGE GAIN	31.6x (30 dB)	40x (32 dB)	50x (34 dB)
INPUT SENSITIVITY, V RMS full rated power @ 8 ohms	1.15 Vrms (+3.4 dBu)	1.15 Vrms (+3.4 dBu)	1.23 Vrms (+4.0 dBu)
INPUT IMPEDANCE (all models)	20 kΩ balanced / 10 kΩ unbalanced		
CONTROLS (all models)	Front: AC switch, Ch. 1 and Ch. 2 gain / Rear: 10-position DIP switch		
INDICATORS (all models)	POWER: Blue LED / CLIP: Red LED, 1 per channel / SIGNAL: Green LED, 1 per channel		
CONNECTORS (all models)	Input: Active balanced; XLR and ¼" (6.3 mm) TRS and barrier strip Output: "Touch-Proof" binding posts and NL4		
COOLING (all models)	Continuously variable speed fan, back-to-front air flow Stable into reactive or mismatched loads		
AMPLIFIER PROTECTION (all models)	Full short circuit, open circuit, thermal, ultrasonic, and RF protection		
LOAD PROTECTION	Turn-on/turn-off muting / AC Coupling		Turn-on/turn-off muting / DC Fault
OUTPUT CIRCUIT TYPE AB: Class AB complementary linear output H: Class AB complementary linear output with Class H 2-step high efficiency circuit	Class AB		Class H
DIMENSIONS (all models) (H x W x D)	3.5" x 19.0" x 15.9" (89 mm x 483 mm x 404 mm)		
WEIGHT	Shipping: 41 lb. (18.6 kg) Net: 35 lb. (15.9 kg)	Shipping: 46 lb. (20.9 kg) Net: 40 lb. (18.2 kg)	Shipping: 50.5 lb. (23 kg) Net: 44.5 lb. (20.2 kg)

CURRENT CONSUMPTION @ 120 VAC
(both channels driven)
Multiply currents by 0.5 for 230V units

	Typical	Full	Max
Idle	0.5 A		
8Ω	3 A	4.1 A	7.4 A
4Ω	4.5 A	6.6 A	11.5 A
2Ω	6.5 A	9.5 A*	17 A*

	Typical	Full	Max
Idle	0.5 A		
8Ω	3.7 A	5.4 A	10 A
4Ω	6 A	9.6 A	16 A
2Ω	9.3 A	14.7 A*	25 A*

	Typical	Full	Max
Idle	0.6 A		
8Ω	4 A	9.7 A	16.4 A
4Ω	6.3 A	15.6 A	27 A
2Ω	9.2 A	23 A*	41 A*

POWER CONSUMPTION NOTES . .	**Typical:** 1/8 power with pink noise represents typical program with occasional clipping. **Full:** 1/3 power with pink noise represents severe program with heavy clipping **Maximum:** Continuous sine wave at 1% THD clipping
POWER REQUIREMENTS	100, 120 or 240 VAC, 50/60 Hz

	RMX 4050a	RMX 5050a
OUTPUT POWER IN WATTS		
8Ω / FTC 20 Hz - 20 kHz / 0.1% THD	800 W	1050 W
8Ω / EIA 1 KHZ / 0.1% THD	850 W	1100 W
4Ω / FTC 20 HZ - 20 KHZ / 0.1% THD	1300 W	1600 W
4Ω / EIA 1 KHZ / 1% THD	1400 W	2000 W
2Ω / EIA 1 KHZ / 1% THD	1600 W	2500 W
Bridge Mode		
8Ω / FTC 20 Hz - 20 kHz / 0.1%THD	2600 W	3200 W
8Ω / EIA 1 kHz / 0.1%THD	2800 W	3600 W
4Ω / EIA 1 kHz / 1%THD	4000 W	5000 W
DYNAMIC HEADROOM	2 dB @ 4 ohms	
DISTORTION SMPTE-IM	<0.02%	
FREQUENCY RESPONSE @1 Watt	20 Hz to 20 kHz, 8 ohms, LF Filter bypassed: +0, -1 dB 5 Hz to 50 kHz, 8 ohms, LF Filter bypassed: +0, -3 dB	
DAMPING FACTOR	>250, 8 ohm load	
NOISE (unweighted)	100 dB below rated output from 20 Hz to 20 kHz, 8 ohm load	
VOLTAGE GAIN	64x (36 dB) for 8 ohm load	
INPUT SENSITIVITY, V RMS full rated power @ 8 ohms	1.25 Vrms (+4.2 dBu)	1.42 Vrms (+5.3 dBu)
INPUT IMPEDANCE	20 kΩ balanced / 10 kΩ unbalanced	
CONTROLS	Front: AC switch, Ch. 1 and Ch. 2 gain / Rear: 10-position DIP switch	
INDICATORS	POWER: Blue LED / CLIP: Red LED, 1 per channel / SIGNAL: Green LED, 1 per channel	
CONNECTORS	Input: Active balanced; XLR and ¼" (6.3 mm) TRS and barrier strip Output: "Touch-Proof" binding posts and NL4	
COOLING	Continuously variable speed fan, back-to-front air flow	
AMPLIFIER PROTECTION	Full short circuit, open circuit, thermal, ultrasonic, and RF protection Stable into reactive or mismatched loads	
LOAD PROTECTION	Turn-on and turn-off muting / DC fault	
OUTPUT CIRCUIT TYPE	Class H	
DIMENSIONS (H x W x D)	5.2" x 19.0" x 15.9" (132 mm x 483 mm x 404 mm)	
WEIGHT	Shipping: 77 lb. (34.9 kg) Net: 68 lb. (30.8 kg)	Shipping: 87 lb. (37.2 kg) Net: 75 lb. (33.1 kg)

CURRENT CONSUMPTION @ 120V

	Typical	Full	Max
8Ω	6.4 A	12.5 A	25.5 A
4Ω	10 A	20.1 A	42.2 A
2Ω	14.5 A	30.6 A	65.7 A

	Typical	Full	Max
8Ω	8.7 A	17 A	34.4 A
4Ω	13.9 A	26.9 A	56.4 A
2Ω	18.9 A	38 A	84.7 A

POWER CONSUMPTION NOTES	**Typical:** 1/8 power with pink noise represents typical program with occasional clipping. **Full:** 1/3 power with pink noise represents severe program with heavy clipping. **Maximum:** Continuous sine wave at 1% THD clipping
POWER REQUIREMENTS	Universal Power Supply 100 - 240 VAC, 50 - 60 Hz

EN

Mailing Address:

QSC Audio Products, LLC

1675 MacArthur Boulevard

Costa Mesa, CA 92626-1468 USA

Telephone Numbers:

Main Number: (714) 754-6175

Sales & Marketing: (714) 957-7100 or toll free (USA only) (800) 854-4079

Customer Service: (714) 957-7150 or toll free (USA only) (800) 772-2834

Facsimile Numbers:

Sales & Marketing FAX: (714) 754-6174

Customer Service FAX: (714) 754-6173

World Wide Web:

www.qsc.com

E-mail:

info@qscaudio.com

service@qscaudio.com

© 2013 QSC Audio Products, LLC. All rights reserved. QSC™ and the QSC logo are registered trademarks of QSC Audio Products, LLC. All other trademarks are the property of their respective owners. Patents pending.