

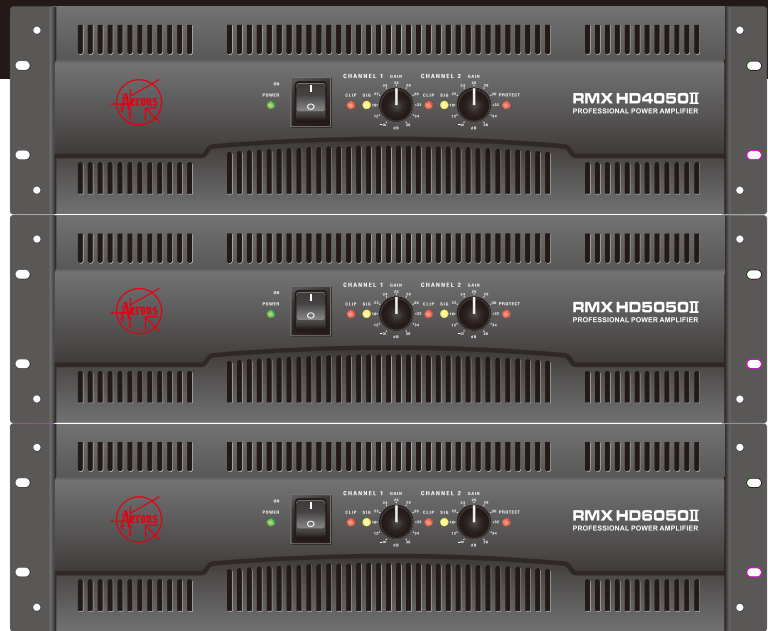
# RMX SERIES HIGH DEFINITION BASS AMPLIFIER

## RMX HD4050II, RMX HD5050II & RMX HD6050II STEREO POWER AMPLIFIER

- RMX HD4050II: 2200Watts into 2 Ohms; 1550 Watts into 4 Ohms; 1050Watts into 8 Ohms; 4400Watts into 4 Ohms(bridge mode).
  - RMX HD5050II: 2500Watts into 2 Ohms; 1800 Watts into 4 Ohms; 1100Watts into 8 Ohms; 5000Watts into 4 Ohms(bridge mode).
  - RMX HD6050II: 2550Watts into 2 Ohms; 1850 Watts into 4 Ohms; 1150Watts into 8 Ohms; 5100Watts into 4 Ohms(bridge mode).
  - The RMX HD4050II, RMX HD5050II and RMX HD6050II feature a dual mono, high-current power supply for increased reliability and performance.
  - The RMX HD4050II, RMX HD5050II and RMX HD6050II provide improved thermal performance yielding higher continuous power in 2 ohm stereo or 4 ohm bridged applications.
  - Compact size--up to 5100 watts in 3 rack spaces.
  - High-current toroidal transformers for greater 2 ohm power and low noise.
  - Independent user-defeatable clip limiters reduce distortion.
  - Selectable low-frequency filters (30 Hz or 50 Hz) protect speakers and increase headroom.
  - Balanced 1/4" (6.3 mm) TRS and XLR.
  - Touch-proof binding post and Neutrik Speakon outputs support most speaker wiring system.
  - Precise Power, Signal, Clip, Protect LEDs to monitor performance.
- Front mounted gain controls for easy access.
- Independent DC and thermal overload protection on each channel automatically protects amplifier and speakers.
  - High quality components and exceptionally rugged construction ensure long life.
  - Professional quality performance incorporates--road-proven AERONS designs.



[www.paequipments.com](http://www.paequipments.com)



## Everything you need, nothing you don't

The **RMX HD4050II**, **RMX HD5050II** and **RMX HD6050II** power amplifier represent the state-of-the-art in professional quality performance at an affordable price. Perfectly suited for a wide range of sound reinforcement applications including professional touring, performing musicians, and mobile entertainers, the **RMX HD4050II**, **RMX HD5050II** and **RMX HD6050II** is optimized to deliver high levels of sustained power, extraordinary audio performance and road-proven reliability.

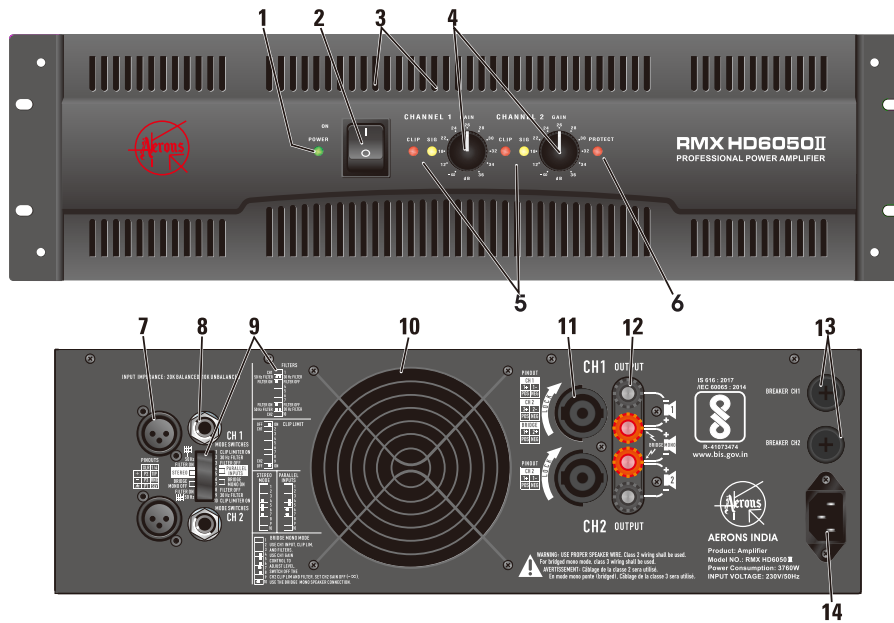
The uber simple front panel controls of these amplifier gives you all of your sound's vital signs at a glance. After flipping the MAIN switch, the POWER LED will light when amplifier is ready for action. Both channels have independent gain controls as well as clip LEDs that indicate when signal distorted and you need to reduce gain. There are also SIGNAL LEDs that light up when a signal is present at the input.

The **RMX HD4050II**, **RMX HD5050II** and **RMX HD6050II** are extremely efficient at real world power levels. Less AC current is wasted and more goes into producing useful audio power.

The **RMX HD4050II**, **RMX HD5050II** and **RMX HD6050II** provide extremely high power and represents tremendous value.



# RMX SERIES HIGH DEFINITION BASS AMPLIFIER

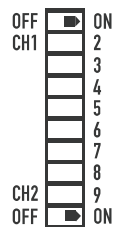


- 1- Power On indicator
- 2- Power switch
- 3- Cooling air exhaust vents
- 4- Gain controls
- 5- Clip and Signal indicators
- 6- Protect mode indicator
- 7- XLR input connectors
- 8- TRS (1/4 ") input connectors
- 9- Mode switches and settings
- 10- Cooling air inlet vents
- 11- Neutrik Speakon output connectors
- 12- Binding post output connectors
- 13- AC circuit breakers
- 14- IEC power inlet (power cord connector)

## 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.



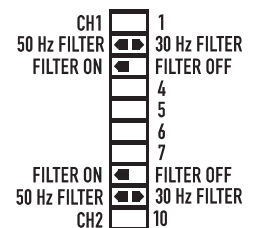
## SETTING LOW FREQUENCY FILTERS

Each channel has a 12dB per octave Low Frequency Filter to prevent cone overexcursion, making more power available for the loudspeakers 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 loudspeakers documentation will specify the low frequency limit.

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

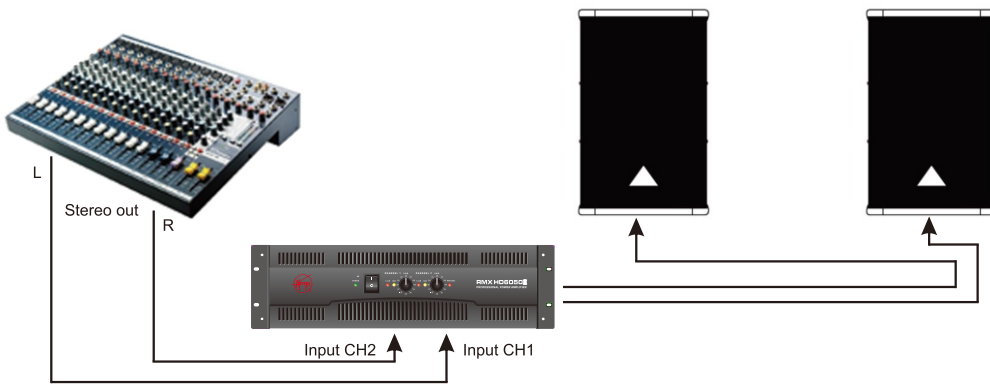
Channel 1 uses switches 2,3.  
Channel 2 uses switches 8,9.  
Switches 3 and 8 turn the LF Filter ON. Switches 2 and 9 select 30Hz or 50 Hz.



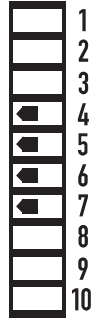
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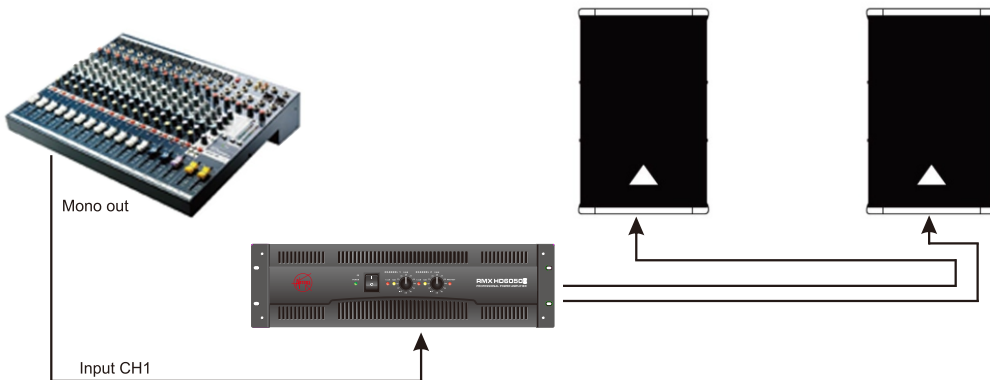
## STEREO MODE



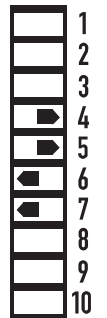
### STEREO MODE



## PARALLEL MODE



### PARALLEL INPUTS



## BRIDGE MODE



- BRIDGE MONO MODE**
- 1
  - 2 USE CH1 INPUT, CLIP LIM, AND FILTERS.
  - 3
  - 4 USE CH1 GAIN CONTROL TO ADJUST LEVEL.
  - 5
  - 6
  - 7
  - 8 SWITCH OFF THE
  - 9 CH2 CLIP LIM AND FILTER. SET CH2 GAIN OFF ( $-\infty$ ).
  - 10 USE THE BRIDGE MONO SPEAKER CONNECTION.

# RMX SERIES HIGH DEFINITION BASS AMPLIFIER



## SPECIFICATIONS

<b>Output Circuit Type</b>	complementary bipolar output with multi-step high efficiency circuit			
<b>Output Power in watts</b>		<b>RMX HD4050 II</b>	<b>RMX HD5050 II</b>	<b>RMX HD6050 II</b>
FTC: 20 Hz to 20 kHz, 0.1% THD	8 ohms	1000	1050	1100
both channels driven	4 ohms	1500	1600	1700
	2 ohms	1800	2000	2100
EIA: 1 kHz, 0.1% THD	8 ohms	1050	1100	1150
both channels driven	4 ohms	1550	1800	1850
	2 ohms, 1% THD	2200	2500	2550
Bridged Mode	8 ohms, 20 Hz to 20 kHz	3000	3200	3300
at 0.1% THD	8 ohms, 1 kHz	3100	3600	3700
	4 ohms, 1 kHz, 1% THD	4400	5000	5100
<b>Input Sensitivity for rated power into 8 ohms</b>		1.25 Vrms	1.42 Vrms	1.42 Vrms
<b>Input Impedance</b>	20 k ohm balanced, 10 k ohm unbalanced			
<b>Voltage Gain</b>	64x (36 dB) for 8 ohm load			
<b>Dynamic Headroom at 4 ohms</b>	2 dB			
<b>Distortion, SMPTE</b>	<0.02%			
<b>Frequency response at 1 watt</b>	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			
<b>Damping Factor</b>	>250, 8 ohm load			
<b>Noise (unweighted)</b>	100 dB below rated output from 20 Hz to 20 kHz, 8 ohm load			
<b>Controls</b>	Front Panel-AC power switch, CH1 Gain control, CH2 Gain control Rear Panel- 10-pole DIP switch featuring LF Filter on/off, LF Filter 30/50 Hz, Clip Limiter on/off controls for each channel and switches for selecting Stereo, Parallel, or Bridge Mode. Push-button circuit breaker for each channel.			
<b>Connectors</b>	Inputs: XLR female, TRS (1/4-inch), and barrier-strip screw terminals provided for each channel Outputs: binding posts and Neutrik Speakon® outputs (CH1 Speakon wired for bi-amp connection)			
<b>LED Indicators</b>	Power "On"green; Protect, red; Signal -35 dB , yellow (1 each channel); Clip, red (1 each channel)			
<b>Cooling</b>	continuously variable speed fan, rear to front airflow			
<b>Amplifier Protection</b>	short circuit, open circuit, thermal, ultrasonic, and RF protection; stable into reactive/mismatched loads			
<b>Load Protection</b>	turn-on and turn-off muting, DC fault output crowbar			
<b>Power Requirements</b>	100, 120, or 240 Volts AC ( $\pm 0\%$ ) 50-60 Hertz			
<b>Circuit Breakers</b>	<b>RMX HD4050 II</b> : two (one for each channel): 100 and 120 V models: 15 amp / 230 V models: 8 amp <b>RMX HD5050 II</b> : two (one for each channel): 100 and 120 V models: 20 amp / 230 V models: 10 amp			
<b>AC Connection</b>	detachable 3-conductor grounded, Class 1 type			
<b>Current Consumption at 230V (in amperes) at typical/full/maximum output power (idle current= 1 amp)</b>		<b>RMX HD4050 II</b>	<b>RMX HD5050 II</b>	<b>RMX HD6050 II</b>
	8 ohms	typical= 3.2, full= 6.25, maximum= 12.75	typical= 4.35, full= 8.5, maximum= 27.2	typical= 4.35, full= 8.5, maximum= 27.2
	4 ohms	typical= 5.0, full= 10.05, maximum= 21.1	typical= 6.95, full= 13.45, maximum= 28.2	typical= 6.95, full= 13.45, maximum= 28.2
	2 ohms	typical= 7.25, full= 15.3, maximum= 32.85	typical= 9.45, full= 19.0, maximum= 42.35	typical= 9.45, full= 19.0, maximum= 42.35
	<small>Current Consumption Notes: Typical- 1/8 power, pink noise, represents typical program with occasional clipping. Full- 1/3 power, pink noise, represents severe program with heavy clipping. Maximum- continuous sine wave at 1% clipping.</small>			
<b>AC Inlet:</b>	IEC 6032 C13		IEC 6032 C19	
<b>Supplied Cord Set</b>	120V: 8ft (2.5m), NEMA 5-15 plug		120V: 8ft (2.5m), NEMA 5-20 plug	
	230V: 8ft(2.5m), CEE7/7 plug		230V: 8ft(2.5m), CEE7/7 plug	
<b>Weight</b>	68 lb. (30.8 kg) net, 77 lb. (34.9 kg) shipping		76.1 lb. (33.6 kg) net, 88.2 lb. (37.7 kg) shipping	
<b>Dimensions</b>	19.0"wide x 5.2"(3RU) high x 15.9"deep (482x132x404mm)			

**Specifications are subject to change without notice.**