

ROCKVILLE

DS10

OWNER'S MANUAL

ATTENTION: WATCH THIS VIDEO BEFORE FIRST USE!



Scan the **QR code** or go to **rockvillesupport.com/ds10** for essential information, guides (video and/or written), and tips to make the most out of your purchase.

If you prefer written instructions, please read ahead!

With Rockville you get many options.

Missing items? If you ordered a bundle that includes more than one product and you are missing part of your bundle then it just means your order shipped from two different warehouses. You will receive the remaining items very soon. If you have any concerns or inquiries, feel free to call our customer support center at 1-646-758-0144, 24 hours a day/7 days a week.

Thank you for purchasing this Rockville product. Please read this installation guide carefully for proper use of your Rockville DS10 Pro Amplifier. Should you need assistance, please call our technical help line at 1-646-758-0144, 24 hours a day/7 days a week.

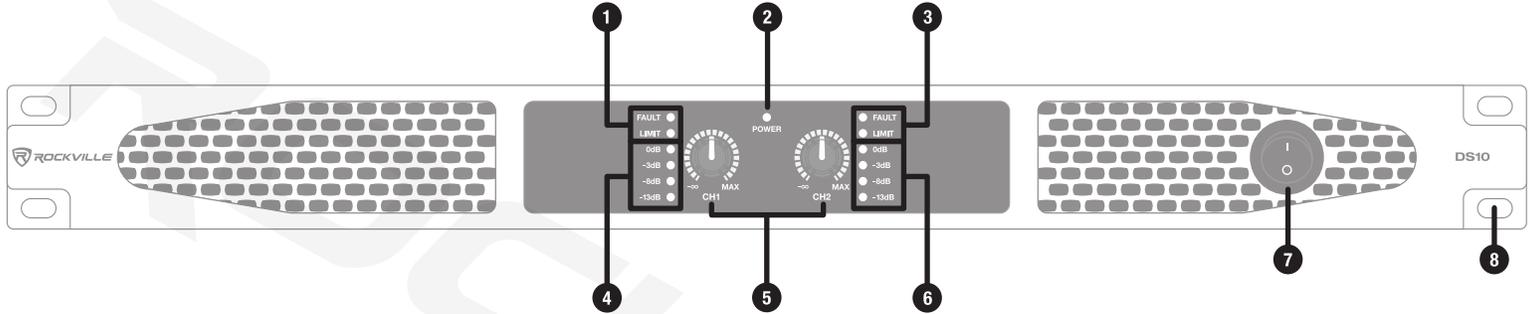
IMPORTANT SAFETY INSTRUCTIONS



TO REDUCE THE RISK OF ELECTRICAL SHOCK, NEVER OPEN THE UNIT. THERE ARE NO SERVICEABLE PARTS INSIDE. WE RECOMMEND CONTACTING ROCKVILLE FOR ANY REPAIRS.

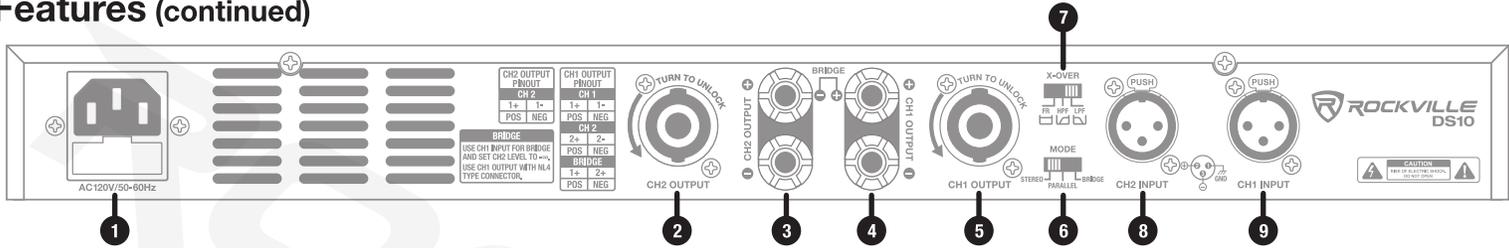
- Do not expose this unit to any kind of moisture.
- Please ensure that the unit is situated in a properly ventilated area.
- Make sure the cooling vents are free of obstructions.
- Replace fuse with one of the same type, size, and rating only.
- Do not attempt to operate this unit if the power cord has been frayed or broken.
- Do not attempt to break off or remove the ground prong. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Do not operate this unit if it is damaged.
- This unit is intended for indoor use only.
- Always mount this unit in a safe and stable manner.
- Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to the point of exit from the unit.
- To avoid unnecessary wear and to improve the unit's lifespan, unplug the unit when not in use for extended periods of time.

Features



1. Channel 1 Fault and Limit LEDs: The FAULT LED indicates the occurrence of an error such as thermal overload, output short circuit protection, over and under voltage protection, or DC overload. The LIMIT LED Indicates that the amplifier's output is within 3dB of clipping. Occasional blinking is acceptable, but if it remains on for more than 5 seconds, you should turn down the level controls or reduce the output level of the input source to avoid audible distortion.
2. Power LED: Indicates the power is turned on.
3. Channel 2 Fault and Limit LEDs (see item 1).
4. Channel 1 Output Level LEDs: This level meter shows the power output after the volume control attenuation.
5. Channel 1 and 2 Signal Level Adjustment Knobs: Control the level of the incoming signal. Turn the knobs counterclockwise if the corresponding channel's LIMIT LED remains on for more than 5 seconds (indicating the input signal is too strong).
6. Channel 2 Output Level LEDs (see item 4).
7. Power On/Off Switch
8. Standard rackmount holes (one at each corner of the face plate) for attaching to a rack.

Features (continued)

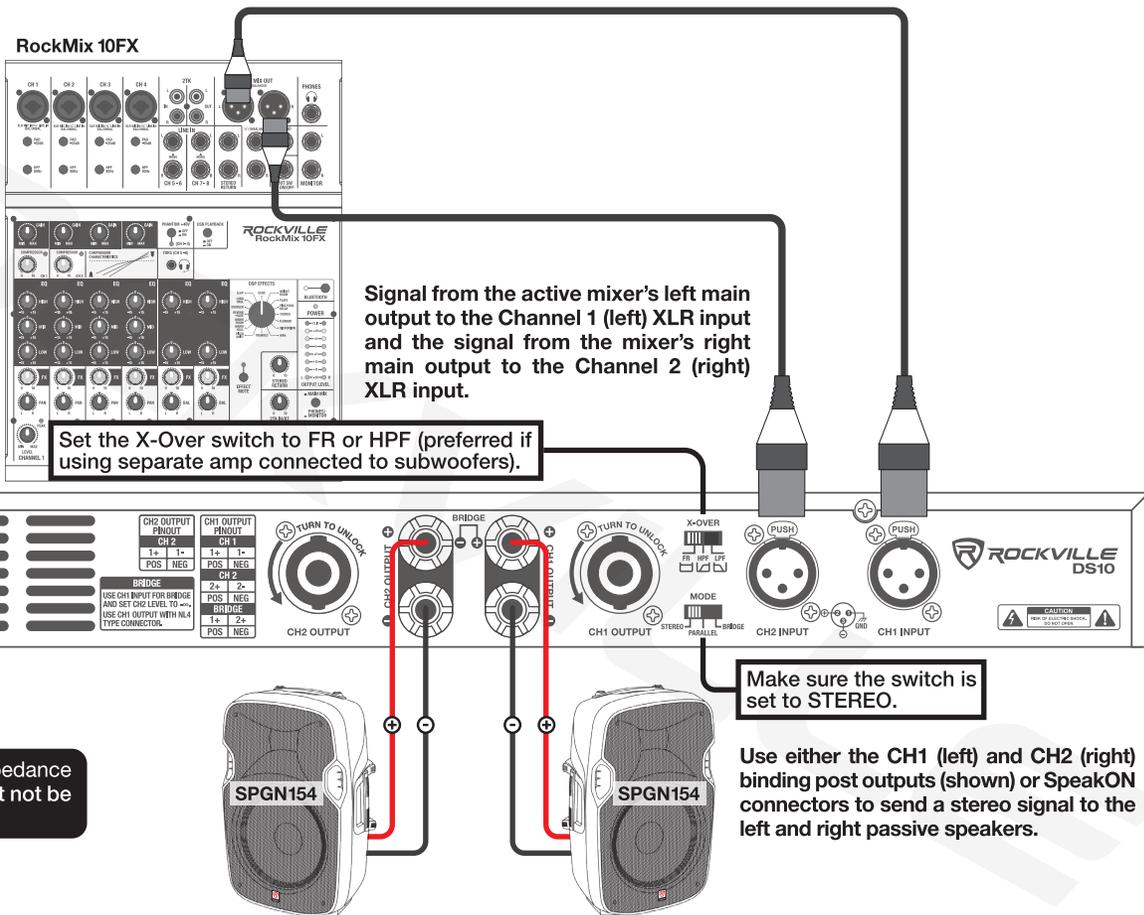


1. AC 100 – 120V/50 – 60Hz Power Input w/user serviceable fuse.
2. Channel 2 Male SpeakON Output Connector: The wiring in your cable will be Pin1+ for positive and Pin 1 – for negative.
3. Channel 2 Binding Post/Banana Plug Outputs: Red is positive and Black is ground for both Channel 1 and Channel 2. In bridge mode connect to the 2 red terminals. Channel 1 red is positive and Channel 2 red is ground.
4. Channel 1 Binding Post/Banana Plug Outputs (see item 3)
5. Channel 1 Male SpeakON Output Connector: The wiring in your cable will be Pin1+ for positive and Pin 1 – for negative. For bridge wiring in your speakON cable, connect Pin 1+ for positive and Pin 2+ for negative.
6. Output Mode Switch
 - Stereo: Both inputs feed the two amplifiers independently as a stereo pair.
 - Parallel: Any signal inputed to Channel 1 gets an internal parallel connection to Channel 2 and both amplifiers output the same signal.
 - Bridge: A minimum impedance of 8 ohms only is allowed. Please note, bridged input and output is via Channel 1 only.
7. Crossover Mode Switch
 - FR (Full Range): No crossover is in circuit and the amp will output a full range signal.
 - HPF (High Pass Filter): A crossover frequency of 110Hz is applied. Any frequencies below that are filtered out. This is useful for adding a second amplifier and subwoofer and setting its crossover point to only reproduce from 110Hz and below.
 - LPF (Low Pass Filter): This setting will pass the low frequencies only. So, from 110hz down will output to your speakers. This is useful when utilizing the DS10 as a subwoofer amp.

****Before changing crossover settings please be sure to turn the amplifier's volume controls to minimum****
8. Channel 2 XLR Input
9. Channel 1 XLR Input (also used for bridged or parallel input)

Configurations

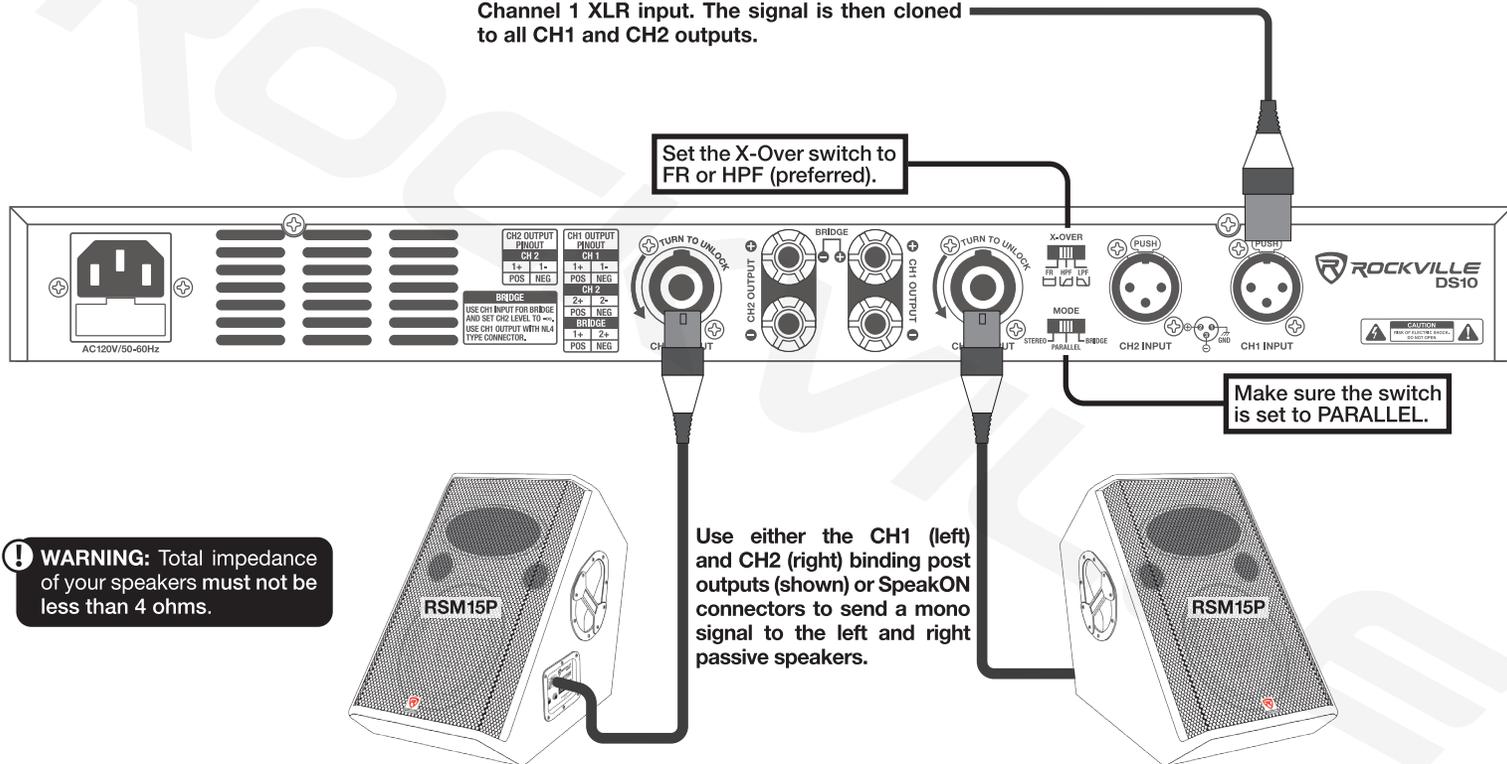
Stereo



Configurations (continued)

Parallel (mono to speakers via speakon)

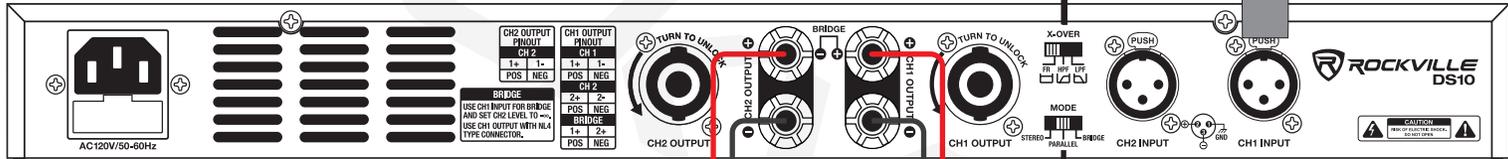
Signal from an active mixer is sent to the Channel 1 XLR input. The signal is then cloned to all CH1 and CH2 outputs.



Parallel (mono to speakers via binding posts)

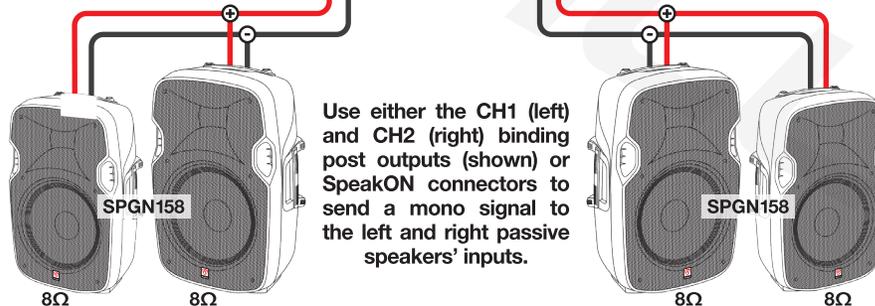
Signal from an active mixer is sent to the Channel 1 XLR input. The signal is then cloned to all CH1 and CH2 outputs.

Set the X-Over switch to FR or HPF (preferred if using separate amp connected to subwoofers).



Make sure the switch is set to PARALLEL.

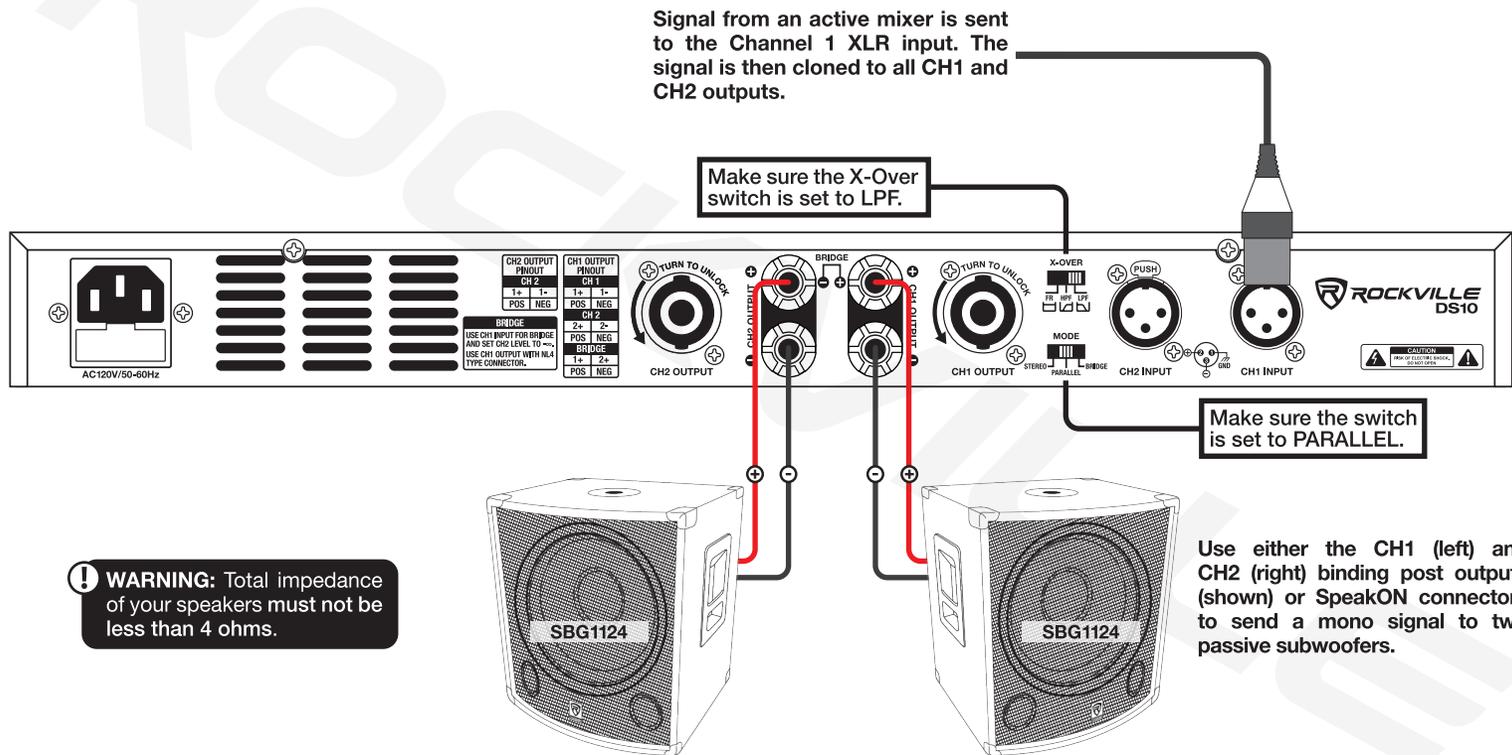
WARNING: Total impedance of your speakers must not be less than 4 ohms. In this instance we have two pairs of 8-ohm speakers wired in parallel down to 4 ohms.



Use either the CH1 (left) and CH2 (right) binding post outputs (shown) or SpeakON connectors to send a mono signal to the left and right passive speakers' inputs.

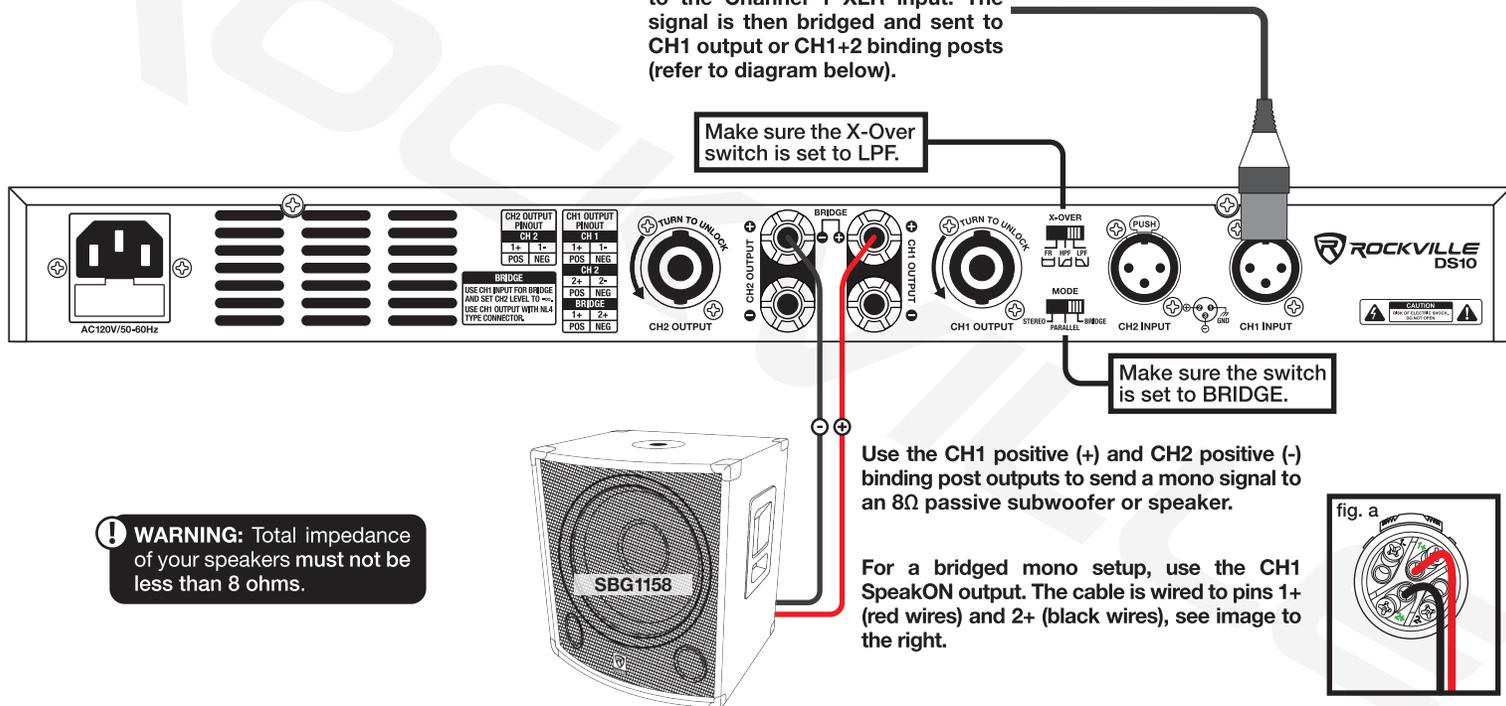
Configurations (continued)

Parallel (mono to subwoofers)



Bridged (mono)

Signal from an active mixer is sent to the Channel 1 XLR input. The signal is then bridged and sent to CH1 output or CH1+2 binding posts (refer to diagram below).



Features/Specifications

- **RMS Power Output:** Stereo 4 Ohm: 2 x 500W
Stereo 8 Ohm: 2 x 300W
Bridged 8 Ohm: 1 x 1000W
- **Peak Power Output:** Stereo 4 Ohm: 2 x 2000W
Stereo 8 Ohm: 2 x 1200W
Bridged 8 Ohm: 1 x 4000W
- Channel 1 and Channel 2 XLR inputs
- Channel 1 and Channel 2 SpeakON outputs
- Channel 1 and Channel 2 Binding Post/Banana Plug Outputs
- 1U rack space
- Built in crossover switch (full range, 110 LPF Hz, 110 HPF Hz) allows amp to be used with full range PA speakers, or Subwoofer(s)
- Front Panel displays volume in dB per channel via LEDS
- Built-in limiter protects your speakers from distortion and clipping
- Power, signal, limit, and fault LED indicators on front of amp
- Speaker short circuit, thermal over load, DC over load
- Built-in variable speed quiet cooling fans
- Stereo mode is perfect for (2) speakers or (4) speakers in a left and right configuration
- Parallel mode gives you dual mono output signal which is perfect for monitor use when you want all sounds coming out of each speaker instead of a left/right configuration
- Channel 1 & 2 Limiting LED Indicators
- Channel 1 & 2 Separate Level Controls
- Heavy duty rack mount ears and removable feet give you multiple options
- Level controls for precise setting and matching of sensitivity
- Can power (2) or (4) 8-ohm speakers, (2) 4-ohm speakers (4) or (8) 16-ohm speakers
- User serviceable fuse (10A, 250V)
- Frequency Response: 10Hz – 40khz @ ± 3 dB
- Input Impedance: 10k Ohm Balanced

- Input signal sensitivity: 540mV – 2.5V
- Stereo Separation (Crosstalk) : -57.7dB @ 5kHz
- Damping factor: (100Hz, 10w, 4 ohms): 165
- Output impedance at speaker terminals: 0.0836 Ohms
- THD+N vs Frequency <0.07% at 1 Watt RMS 20Hz – 20kHz
- Signal-to-Noise: 90dBA max output
- SLEW RATE (input filter limited): 29v/uS
- Power Requirements: 110V/50 – 60Hz
- Weight: 6.6lb
- Dimensions: 19" x 10.24" x 1.97"

Troubleshooting

PROBLEM	SOLUTION
No power	<ol style="list-style-type: none">1. Make sure the unit is plugged in and the power switch is in the ON position.2. Check the fuse.3. Check that the power cable is properly plugged into the wall socket.4. If people or equipment tend to step on and roll over or stretch your power cable, it can get damaged. Check the power cable for damage. If the cable is damaged, discontinue using the unit until the cable can be repaired.
No sound	<ol style="list-style-type: none">1. Check that all appropriate cables and wires are plugged in correctly.2. Check the channel level settings.3. Check the volume settings on your input devices.4. Check mixer's master and input volumes.5. Make sure you are using the proper cables.6. Make sure speakers are connected to the amp's OUTPUT, not INPUT.7. Make sure mixer is connected to the amp's INPUT, not OUTPUT.8. Make sure the mixer's mute isn't on.9. Check the crossover switch or mode switch on amp. If the x-over switch was left on LPF, it will sound like almost nothing is playing.
Limit LED is on	<ol style="list-style-type: none">1. Turn down signal level controls (gain).2. Check impedance of speakers or subs.3. Lower incoming input.
Fault LED is on	<ol style="list-style-type: none">1. Check power input to amp.2. Check for shorts.3. If over heating, reduce amp output.4. Make sure the amp is situated in a location where it can get proper ventilation.

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