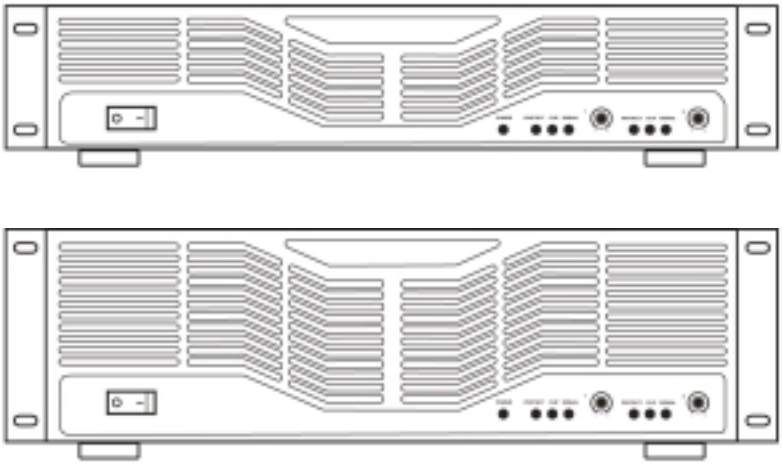
SAGA PRO SERIES STEREO POWER AMPLIFIER

OPERATION MANUAL



INSTALLATION

Use care in unpacking the amplifier, and be sure to save the carton and packing materials so that you can use them for moving, storing, or if you need to return the unit for service. Never place the unit in direct sunlight, in excessive heat or humidity, in front of heating supply vents or extremely dusty locations. Make all connections according to the instructions on the following pages.

FEATURES

- Saga Pro amplifiers deliver the following power ratings:
  SAG6000: 250 watts @ 4 ohms / 150 watts @ 8 ohms
  SAG6002: 450 watts @ 4 ohms / 350 watts @ 8 ohms
  SAG6003: 800 watts @ 4 ohms / 550 watts @ 8 ohms
- 2-channel, Parallel or Bridged mono modes for flexible application

Other features include:

- Independent limiters for each channel, which decreases overload distortion
- Independent input level controls for each channel for volume setting
- Precise Signal and Clip LED indicators to monitor performance, enabling you to rectify overloading (clipping)
- Two forced-air fans keep the operating temperature low during use
- Inputs: XLR and 1/4-inch TRS
- Outputs: 5-way binding posts and Speakon® connectors
- Independent thermal overload protection for each channel, automatically guards amplifier and speakers against damage or failure
- The housing can be mounted in any standard 19 inch rack

IMPORTANT SAFETY INSTRUCTIONS

Read safety and operating instructions before use, adhere to all warnings on the device and in these instructions, and retain for future reference.

Do not use this device near water, or in a location near dripping or splashing liquid. Do not place objects that contain liquid on or near the amplifier. Do not use water or any other liquid to clean the device. Use only a dry soft cloth.

Do not block any ventilation openings, and locate device in a well-ventilated area.

Do not locate or operate device near heat sources or other devices (including amplifiers) that produce heat.

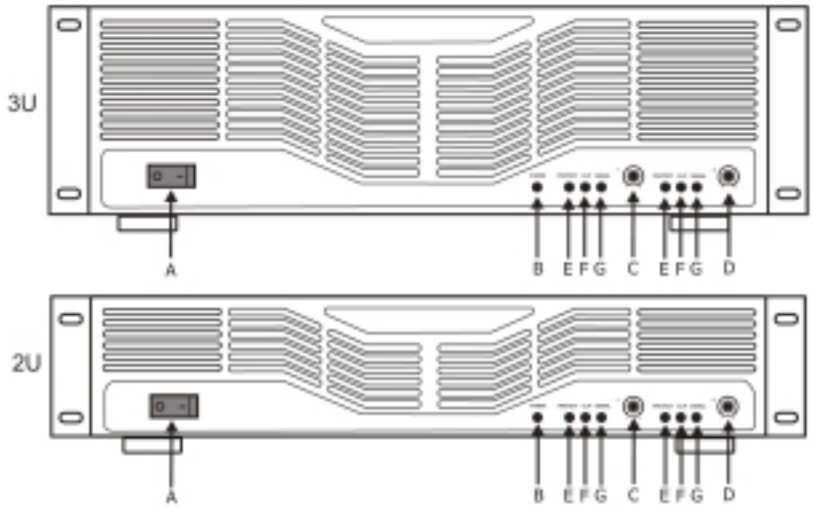
This amplifier has been provided with a polarized or grounding plug. Do not counteract the purpose of these safety features. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

WARNING: The main plug or amplifier inlet is used as a disconnect device, and should remain readily operable. Make sure the cord is not subject to being walked on, or pinched at the convenience receptacles or plugs, or at the point of attachment to the amplifier.

Use only accessories that have been specified by the manufacturer.

Use this amplifier only with racks/carts rated for this type of equipment. Use caution when moving to prevent tipping or injury.

1. Saga Pro Series Front Panel



A: Power Switch "I"= on / "O"= off
This switch powers the unit on and off.

B: Power ON LED indicator
This light indicates that the power is on.

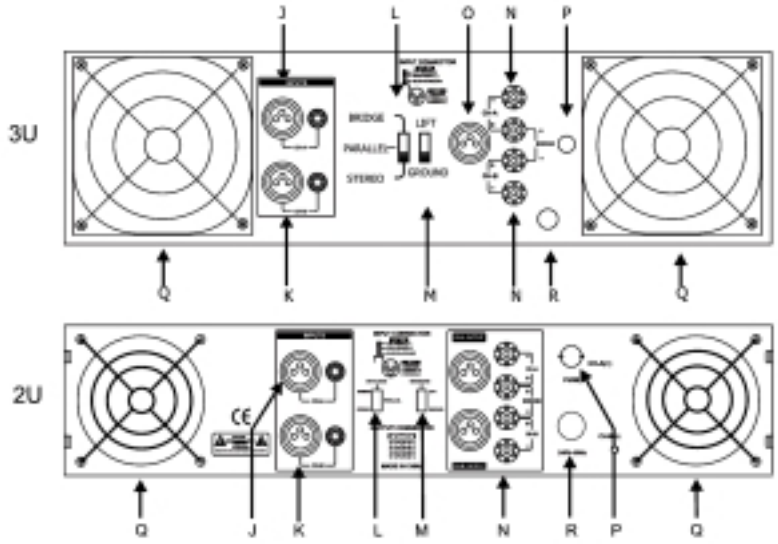
C: Ch A Input Level Control
D: Ch B Input Level Control
These controls adjust the input level for their respective channels. In Bridge Mono Mode, only channel A level control is used to adjust signal level. In Parallel Mode, both input level controls are used to adjust signal level for their respective amplifier channels. At the fully counter-clockwise position, the signal is attenuated by more than 80dB. At their fully clockwise position, the signal is at maximum gain.

E: Protection LED indicator
These LEDs indicate that the channel is in PROTECT mode. These LEDs will light when overheating or other sever problems occur. When in protect mode, all output for that channel will be muted, to protect any speakers connected to the channel.

F: Clip LED indicator
These LEDs indicate signal outside of the amplification range of the amplifier. They will illuminate at the clipping threshold. When a signal is "clipped" it means that the signal is being distorted at the output stage. These lights should not light up during normal use. If the clip indicator is illuminated, lower the channel gain or input signal until the indicator light goes out. *NOTE: Prolonged clipping can damage your amplifier and speakers. Monitor the clip indicator carefully during setup and use.*

G: Signal LED indicator
These LED's indicate that a signal is present at the amplifier input, and that the signal is being amplified.

2. Saga Pro Series Rear Panel



J: Ch A Input connector
Connect the input source using either the XLR or 1/4” TRS plugs.

K: Ch B Input connector
Connect the input source using either the XLR or 1/4” TRS plugs

L: Input Mode switch
Use this switch to change the amplifier mode from stereo, mono bridged, or parallel.

M: Ground/Lift Selected switch
The Ground Lift switch is useful to eliminate hum problems. The goal is the isolation of the signal ground from interference. The Sago Pro amp is shipped so the unit is "grounded" -- meaning the chassis is connected to audio signal ground. If after hooking up your system it exhibits excessive hum or buzzing, try "lifting" the ground by repositioning this switch. We recommend doing this with the Main Power in the OFF position.

N: Ch A/Ch B Binding Post Output connectors
Connect each channel to the speakers. Binding posts (N) are provided for each channel as well as Speakon® (O) connectors, so that paralleling of speakers is possible. Connection to the binding posts can be made with banana plugs, spade lug, or bare wire. Connect to both the Ch A and Ch B terminals for Stereo or Parallel Mode, or a single connection across the red terminals only of Ch A and Ch B for Bridge Mono Mode.

O: Ch A/Ch B Speakon® Output connectors
Use Speakon® connectors to connect each channel to 8 ohm or 4 ohm loudspeakers. Using Speakon® cables, make connections to both the Ch A and Ch B connectors for Stereo of Parallel Mode, or to the Bridged mode connector for Bridged Mono Mode.

P: Main AC fuse

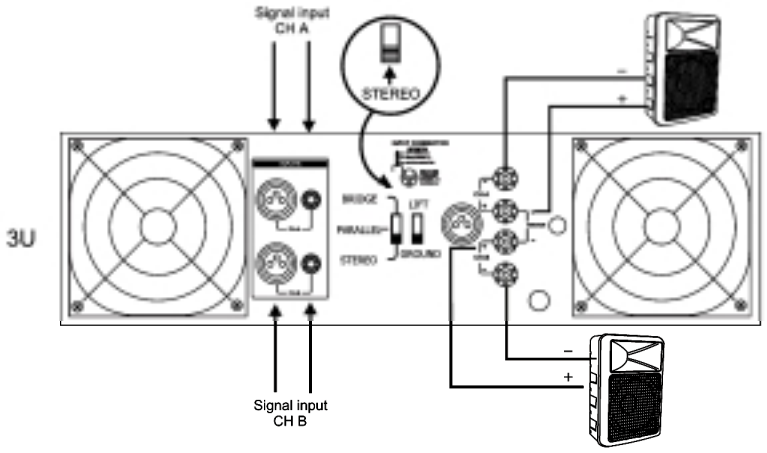
Q: Fan Vent
Cooling air enters the amplifier through the ports located on the front of the unit. Do not block these ports when installing the amplifier or other equipment.

R: Power cord
Connect the supplied heavy-duty 3-pin power cable to 120VAC power.

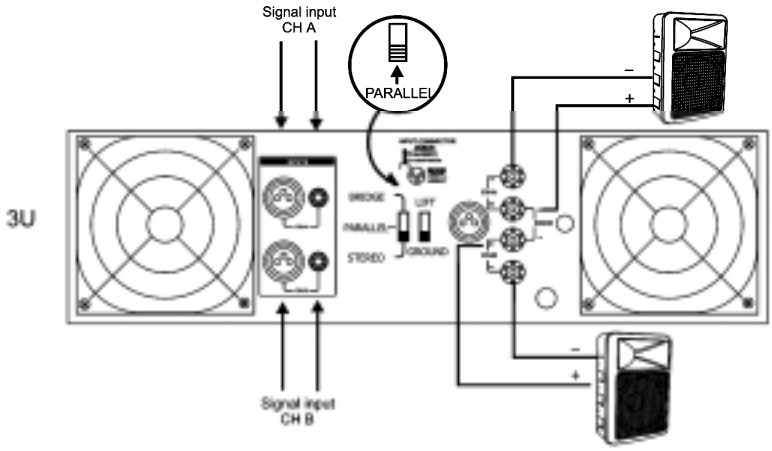
3. Saga Pro Series Wiring

J)

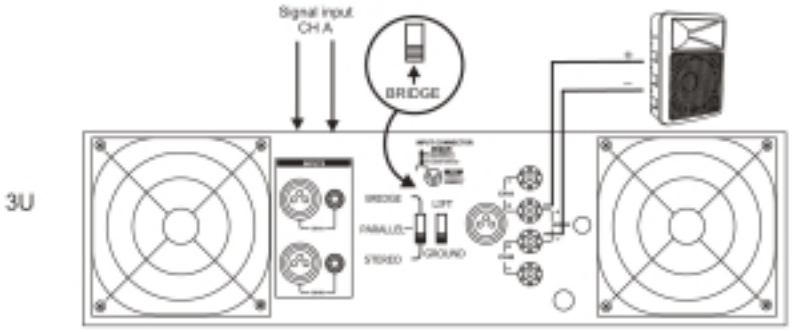
(1) Stereo mode (3U)



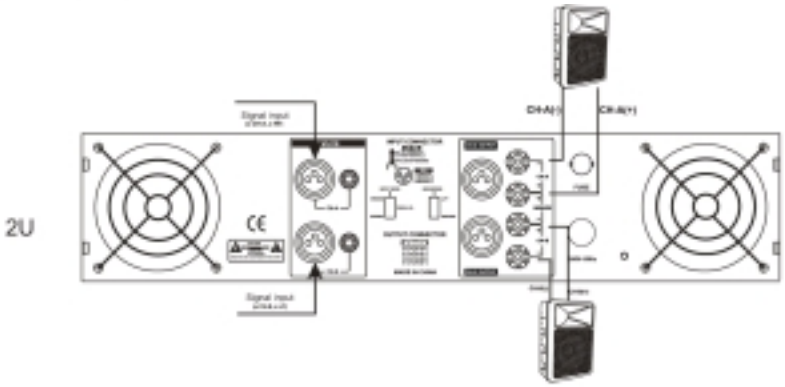
(2) Parallel mode (3U)



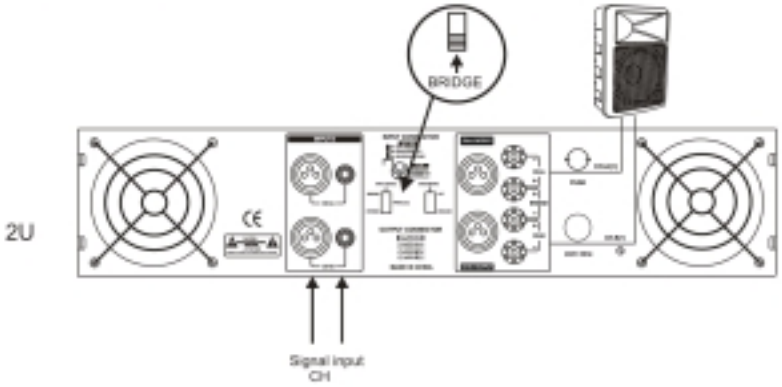
(3) Bridge mode(3U)



(4) Stereo mode(2U)



(5) Bridge mode(2U)



4. Saga Pro Series Technical Specifications:

Model	SAG6000	SAG6002	SAG6003
Dimensions	2U	2U	3U
8 ohms Stereo Power	2x150W	2x350W	2x500W
4 ohms Stereo Power	2x250W	2x450W	2x800W
8 ohms Bridge Power	500W	900W	1600W
Frequency Response	20Hz to 20KHz < +/-0.5dB		
THD	<0.05% (1KHz)		
Input Impedance	10K ohms		
Input Level	0dB		
Signal/Noise	>95dB		
Input insulation	>82dB (1KHz)		
Power Supply	120 VAC ~ 60Hz		
Signal Compressor	NO		YES
Weight	33.07 lbs	41.89 lbs	59.52 lbs
Dimensions	18.9in x 16.5in x 3.469in		18.9in x 18.11in x 5.197in
Packing Dimensions	21.26in x 18.9in x 6.693in		21.26in x 20.87in x 8.268in

5. Saga Pro Series factory typical settings:

a. Power switch position at “O” (OFF)
b. Ch A/B Volume position at "∞" (MIN)
c. Ground/Lift switch position at "⊥"
d. Output mode switch position at “STEREO”

6. Notes

a. Please read the entire attached documents carefully before using the device, and retain for future reference.
b. The power supply must match the demand of the device with reliable ground wire.
c. Make sure the power to the device is OFF before connecting or disconnecting.
d. The device should be located away from high temperature, moisture and powerful electromagnetic field.
e. Only use a dry, soft cloth to clean the device.