AmPlus™ 100 and AmPlus 50 Business Music Amplifiers

Installer’s Guide
**WARNING:** These business music amplifiers are electrical appliances. To reduce the risk of fire or electric shock, do not expose the amplifier to rain or moisture; do not disassemble the amplifier. There are no user-serviceable parts inside. Refer servicing to qualified service personnel.

The caution markings described here appear on the top of the amplifier.

1. **Read, Follow, and Save All Instructions** – Read the complete safety and operating instructions for all components before using this product. Follow all instructions. Save the instructions for future reference.

2. **Pay Attention to Warnings** – Observe all warnings on the product and in this guide.

3. **Do Not Use Near Water or Moisture** – Do not use this product near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, or anywhere else that water or moisture is present.

4. **Attachments** – Do not use attachments not recommended by Bose® Corporation as they may cause hazards.

5. **Maintain Proper Ventilation** – To ensure reliable operation of the product and to protect it from overheating, put the product in a position and location that will not interfere with its proper ventilation. Do not put it in a built-in system, such as a bookcase or a cabinet, that may keep air from flowing through its ventilation openings.

6. **Avoid Excessive Heat** – Do not put the product near heat sources such as radiators, stoves, or other appliances that produce heat.

7. **Use Proper Power Sources** – Plug the product into a proper power source, as described in the operating instructions or as marked on the product.

8. **Avoid Overloading** – To prevent the risk of fire or electric shock, do not overload wall outlets, extension cords, or integral convenience receptacles.

9. **Be Careful with Accessories** – Mount the product only as recommended by Bose Corporation. Do not put this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a person or damage to the product. For advice on use of a particular cart, stand, tripod, bracket, or table, contact Bose Corporation.

If you must move your product and cart combination, do so very carefully. Quick stops, excessive force, and uneven surfaces may cause it to overturn.
10. **Protect the Power Cord** – Route all power supply (mains) cords so that they are not likely to be walked on or pinched. Pay particular attention to cords at plugs, at outlets on the product, and at the point where the cord connects to the product.

11. **Take Precautions against Lightning and Power Line Surges** – To prevent damage to this product during a lightning storm, or if the product will not be used for an extended period of time, unplug its power cord from the wall outlet and disconnect the antenna or cable system.

12. **Obtain Service When It Is Indicated** – The product should be serviced only by authorized service personnel when:
   A. the power supply cord or the plug has been damaged, or
   B. objects have fallen or liquid has spilled into the product, or
   C. the product has been exposed to rain or water, or
   D. the product does not appear to operate normally or exhibits a marked change in performance, or
   E. the product has been dropped or the cabinet damaged.

13. **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. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

**General cabling information**

Connect high impedance units, such as tape players and CD players, to the amplifier with shielded single conductor cable. Keep cable lengths shorter than 10 feet (3 m).

For output loudspeaker connections, Class II wiring is suggested. Use standard #16 AWG wire.

To minimize hum pick-up or other unwanted effects:
- Keep loudspeaker cables away from power cables.
- Use twisted shielded pairs on microphone inputs.
- Keep input cables away from:
  - Loudspeaker cables to prevent inductive feedback.
  - Power lines or transformers.

<table>
<thead>
<tr>
<th>AWG</th>
<th>Wire Diameter (in.)</th>
<th>Wire Diameter (mm)</th>
<th>DCR @ 20°C (Ω/1000 ft.)</th>
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<tr>
<td>6</td>
<td>.1620</td>
<td>4.1</td>
<td>.41</td>
</tr>
<tr>
<td>8</td>
<td>.1285</td>
<td>3.3</td>
<td>.65</td>
</tr>
<tr>
<td>10</td>
<td>.1019</td>
<td>2.6</td>
<td>1.0</td>
</tr>
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<td>12</td>
<td>.0808</td>
<td>2.1</td>
<td>1.6</td>
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<tr>
<td>14</td>
<td>.0641</td>
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<td>16</td>
<td>.0508</td>
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<tr>
<td>18</td>
<td>.0403</td>
<td>1.0</td>
<td>6.6</td>
</tr>
</tbody>
</table>
Information You Should Read

⚠️ CAUTIONS:
Always turn the amplifier power OFF before:
1. Connecting the speakers.
2. Changing the amplifier mode switch.
3. Installing the equalizer and/or option cards.
Never connect the speaker output channels together.
Do not connect the speaker outputs to the chassis or signal ground.

Bose® recommends installation of the amplifier be performed only by an experienced and licensed contractor. Familiarity with standard wiring practices, as recognized by a government agency in your area, is necessary. If you do not have these qualifications, do not attempt to install this amplifier. Do not wall mount the amplifier. The amplifier can be desk, shelf, or rack mounted using the rack mount accessory kit.

Warranty period
The following products are covered by a 5-year transferable limited warranty:
- Bose AmPlus™ 100 amplifier and AmPlus 50 amplifier
- Equalizer cards
- Optional cards: Opti-voice® page and Opti-source™ source

Service
If you experience problems with the business music amplifier, contact your authorized Bose Professional Products dealer. The dealer will verify any defects and arrange for service by a factory authorized Bose service agency, or by Bose Corporation. Consult your warranty card for warranty information. An owner’s registration card is provided with this manual.

How to use this guide
This guide contains installation information on the AmPlus 100 and AmPlus 50 business music amplifiers. Each amplifier has its own section containing all information about that amplifier. Refer to the table of contents for the location of your amplifier’s information.

The AmPlus 100 and AmPlus 50 amplifiers are each available in two versions: A 70V constant voltage audio output version for use with 120V AC mains supply, and a 100V constant voltage audio output version for use with 220-240V AC mains supply. This Installer’s Guide includes instructions and specifications for both versions.

♫ Note: Be sure to leave the AmPlus 100 Amplifier and AmPlus 50 Amplifier Owner’s Guide with the amplifier or with the owner after completing the installation.
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Getting Started

What you bought
The amplifier comes in one box and the accessory kit comes in another.

Amplifier comparison
This table shows the major features of the different amplifiers.

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<thead>
<tr>
<th>Features</th>
<th>AmPlus™ 100 Amplifier</th>
<th>AmPlus 50 Amplifier</th>
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</thead>
<tbody>
<tr>
<td>Outputs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ch1</td>
<td>65W</td>
<td>70W</td>
</tr>
<tr>
<td>Ch2</td>
<td>65W</td>
<td>None</td>
</tr>
<tr>
<td>70/100V (bridged)</td>
<td>100W</td>
<td>50W</td>
</tr>
<tr>
<td>Inputs (balanced)</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Line Outputs (balanced)</td>
<td>2</td>
<td>None</td>
</tr>
<tr>
<td>Option Cards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paging</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>A/B Source switching</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

Installing the amplifier’s feet
The amplifier’s feet are found in the Accessories box. Use these feet if the amplifier is being placed on a shelf, desk, counter, or any flat surface. The feet elevate the amplifier so air circulates around and through, keeping the amplifier cool.

Note: If the amplifier is going into a rack, DO NOT mount the feet.
Removing the amplifier's feet

Use a screwdriver to loosen the foot and pull it out.

Installing the option cards

Refer to the installation instructions that come with the equalizer card, Opti-voice\textsuperscript{®} page card, and Opti-source\textsuperscript{TM} source card.

Using the quick connectors

The quick connectors are supplied so you can connect the amplifier to sources and other equipment.

\textbf{Figure 2}

Installing a quick connector

Using the loudspeaker output connectors

Setting the levels

Each input has its own level control. Use these controls to balance the relative level of each input source. You control overall volume with the remote volume control.

Installing the remote control

The remote control should be wall mounted in an electrical box (not included) similar to a light-switch electrical box. Install the remote control where day-to-day adjustments will be easy to make.
**AmPlus 100 amplifier controls**

**Inputs** – The amplifier comes with two balanced inputs. They can be left and right channels from a stereo source or two distinct monophonic (mono) sources for 2-zone applications. Two mono sources can also be “mixed” for single zone applications.

**Input Mode** – This switch determines how the Channel 1/Channel 2 inputs are presented to the power amplifier section of the AmPlus 100 amplifier. There are three possible modes.

1. In the 2-Channel/Mix position, the inputs remain separate, not summed. Channel 1 and Channel 2 level potentiometers (pots) are active in this mode. Use this mode for:
   a. Stereo (2-channel).
   b. Two distinct sources in a two-zone application (2-channel), one source per zone.
   c. Two distinct sources in a single bridged mono zone (Mix).

   **Note:** In Mix mode both sources, Channel 1 and Channel 2, are presented to the amplifier simultaneously. When the internal source mix switch is in the “mix” position (Figure 5), the Channel 1 attenuation controls the source connected to the Channel 1 input. The Channel 2 attenuation controls the source connected to the Channel 2 input.

2. Dual Mono – The Channel 1 and Channel 2 inputs are summed to mono and presented to the amplifiers as one mono signal. This mode may also be used when driving a 70/100V load from the Channel 1 amplifier outputs and a Bose® Model 1B Acoustimass® module from the 4Ω Channel 2 amplifier outputs. See “Zone 2 level adjust”.

3. Mono Mode – Both inputs, Channel 1 and Channel 2, are summed to mono. Only the Channel 1 level pot is active.

**Level** – **Channel 1 level adjust** – In 2-channel (stereo) mode, this pot affects the signal level at the Channel 1 low impedance (4Ω) outputs. In dual mono mode, it controls the zone 1 level. In mono mode, it controls the level of all outputs.

**Channel 2 level adjust** – In 2-channel (stereo) mode, this pot controls the signal level at the Channel 2 low impedance (4Ω) outputs. This pot is not active in dual mono or mono modes.

**Zone 2 level adjust** – This pot is active only when the input mode is dual mono. In this mode, this pot controls the signal level at the Channel 2 low impedance outputs. This pot is a slave to the Channel 1 pot; that is, the Channel 1 pot controls the level of both zones in a 2-zone system. However, the zone 2 pot can be used to fine-tune the level of the second listening zone without affecting zone 1. This pot may also be used to fine-tune the bass level when using the AmPlus 100 amplifier to drive a 70/100V load connected to the 70/100V output and a Model 1B Acoustimass module connected to the Channel 2 output.
AmPlus 100 amplifier controls (cont’d)

**Bass Level** – Use the bass level potentiometers (pots) to increase the output level between 50Hz and 150Hz. This is useful for compensating for poor bass cabinet loading or high levels of low-frequency ambient noise. The Channel 1 and Channel 2 pots are active in all modes of operation.

**Remote Volume** – When using the amplifier to power one listening zone, connect the remote control unit to the zone 1 (+) pin and the ground pin. Set the internal remote volume switch (Figure 4) to 1_REMOTE. When using the AmPlus 100 amplifier for 2-zone applications, connect a second remote to the zone 2 (+) pin and ground pin. Set the internal remote volume switch to 2_REMOTE.

**Line Outputs** – Both line output responses are flat (regardless of whether or not you have installed active equalizer cards). The remote volume control affects the line output levels. Both outputs are active in stereo mode. Only zone 1 is active in dual mono and mono modes.

**Power Amplifier Outputs** – The 70/100V output becomes active when the amp mode switch is in the 70/100V position. In this setup, both AmPlus 100 amplifier channels are bridged and provide up to 100W to the 70/100V speaker(s).

When the amp mode is in the 2-channel position and a jumper is placed across the XFR CT pins, 50W is available at the 70/100V output and 65W is available at the channel 2 output.

With the amp mode switch in the 2-channel position, both Channel 1 and Channel 2 supply 65W into a minimum load of 4Ω.

**Internal High Pass Switch** – When this switch is in the “HPF ON” position, frequencies below 150Hz are attenuated at 18dB/OCT. This low-frequency roll-off occurs on Channel 1 only. Use this switch for bandlimiting high-frequency speakers connected to Channel 1 in a bi-amplified system.
AmPlus 100 Amplifier Direct-coupled Model 1B Installation

1. First, adjust Ch. 1 & 2 high frequency speaker levels here.
2. Then use Ch. 1 & 2 Bass pots to adjust Bass Module level.
3. Internal Switch Settings Remote Volume: 1 Remote, Ch. 1 High Pass Filter: OFF, 2 ch./Mixer Switch: 2 ch.

Source

AmPlus™100 Amp

Model 1B Module

Remote Volume Control

Left 1
Right 1
Left 2
Right 2

Remote
Volume
Control

INPUTS A

Channel 1 Input

Channel 2 Input

Mono

Dual Mono

Option Card 1
Channel 1

Option Card 2
Channel 1

Option Card 2
Channel 2

Option Card 1
Channel 2

EQ Card 1

EQ Card 2

1 Remote

2 Remotes

Zone 1 Remote

Zone 2 Remote

VCA 1

VCA 2

Line Outputs

ZONE 1

ZONE 2

100V Bridged

70/100V Bridged

Power Amp 1

Power Amp 2

Amplifier Outputs

XFR CT
AmPlus 100 Amplifier 70/100V/Model 1B Installation

1. First, adjust high frequency speaker level here.
2. Then use Zone 2 and Ch. 2 Bass pots to adjust Bass Module level.
3. Internal Switch Settings
   - Remote Volume: 1 Remote
   - Ch. 1 High Pass Filter: ON
   - 2 Ch./Mixer Switch: 2 Ch.

AmPlus(TM) 100 Amplifier Configurations
AmPlus 100 Amplifier Simple Monophonic Installation

Internal Switch Settings
Remote Volume: 1 Remote, Ch. 1 High Pass Filter: OFF, 2 Ch./Mixer Switch: 2 Ch.

Note: Both bass pots are active in this mode. Use both of these controls to make bass level adjustments.
1. Adjust the source 1 level with the ch. 1 pot.
2. Adjust the source 2 level with the ch. 2 pot.
3. Internal Switch Settings
   Remote Volume: 1 Remote,
   Ch. 1 High Pass Filter: OFF,
   2 Ch./Mixer Switch: Mixer position

Note: Both bass pots are active in this mode. Use both of these controls to adjust bass level.
AmPlus 100 Amplifier With Two 70/100V Zones Installation

1. First, adjust the Zone 1 listening level.
2. Then use the Zone 2 pot to adjust the Zone 2 listening level.
3. Internal Switch Settings: Remote Volume: 2 Remotes, Ch. 1 High Pass Filter: OFF, 2 Ch./Mixer Switch: 2 Ch.

AmPlus 100 Amplifier Configurations
### Power output
- **Stereo:** 65W per channel into 4Ω
- 50W into 8Ω
- 70V bridged mono: 100W into 4Ω
- 100V bridged mono: 100W into 8Ω
- 70V/4Ω: 50W @70V output into 4Ω
- 65W @Ch2 output into 4Ω
- 100V/4Ω: 50W @70V output into 196Ω
- 65W @Ch2 output into 4Ω

### Input sensitivity
315mV required to drive both channels to full power in any mode

### Input attenuation
0dB to off

### Input/Output configurations
1. 2-channel (stereo)
2. Mono into 4Ω load
3. Mono into 70/100V load
4. Dual-Mono (1 source/2 zones)
5. 2-channel (70/100V and 4Ω/Ch2)

### Input impedance
- 32kΩ balanced
- 11kΩ unbalanced

### Line output impedance
600Ω

### Line output distortion
≤0.1%

### Frequency response (active EQ bypassed)
- 4Ω outputs: 40Hz – 16kHz, ±1dB
- 70/100V outputs: 60Hz – 16kHz, ±1dB

### THD @ rated power
- 4Ω outputs: ≤1% THD (40Hz – 16kHz)
- 70/100V outputs: ≤1% THD (60Hz – 16kHz)

### Hum and noise
- Line outputs: 92dB
- Pwr amp outputs: 80dB below maximum output with 4Ω load

### Controls
Inputs 1 and 2, input attenuation, remote volume, bass adjust 1 and 2. Input mode and amplifier mode switches. Front panel power switch.

### LED indicator
Power: front panel

### AC power consumption
- 120V–AC, 50/60Hz, 350W max
- 220-240V–AC, 50/60Hz, 350W max

### Operating temperature range (passively cooled, top and bottom vents)
12º F to 120º F (-10º C to +50º C)

### Special features
- Remote volume control
- Turn on/off muting
- Clip detection and limiter
- Short circuit protection
- DC offset protection
- Thermal limiting
- Stable into reactive loads
- RFI protection
- International safety approvals under UL-6500, CSA-E65, IEC-65
- EMC CE compliance

### Option card accessories
- EQ cards (Model 8 loudspeaker, Model 25 loudspeaker, Model 32 loudspeaker, and Model 1B Acoustimass® module, 402™ loudspeaker, 502® loudspeaker, 802® loudspeaker)
- Opti-Source™ card
- Opti-voice® page card

### Terminations
- Inputs and outputs are quick connect terminal blocks

### Size
- 17"W x 10"D x 3½"H
- (43.2 x 25.4 x 9.5 cm)
- (desk mount)
- 19"W x 10"D x 3¾"H
- (48.3 x 25.4 x 9.5 cm)
- (rack mount, chassis supported)

### Weight
20 lb (9.1 kg)

### Associated equipment
- Rack mount kit
- 70/100V transformer
**AmPlus 50 amplifier controls**

**Inputs** – The AmPlus 50 amplifier comes with two balanced inputs. They can be left and right from a stereo source; two mono sources can also be mixed. Since the AmPlus 50 amplifier is a single channel amplifier, a stereo source is internally summed to mono.

**Level** – *Channel 1 level adjust* – This potentiometer (pot) controls the signal level of the Channel 1 input source.

*Channel 2 level adjust* – This pot controls the signal level of the Channel 2 input source.

**Bass Gain** – Use the bass gain pot to increase the output level between 50Hz and 150Hz (affects 50Hz – 150Hz only). This is useful for compensating for poor bass cabinet loading or high levels of low-frequency ambient noise.

**Remote Volume** – Connect the remote control unit to the zone 1 (+) pin and the ground pin.

**Power Amplifier Outputs** – The 70/100V output is active when the amplifier Mode Switch is in the 70/100V position. The 4Ω output is active when the amplifier Mode Switch is in the 4Ω position.

**Internal High Pass Switch** – When this switch is in the “HPF ON” position, frequencies below 150Hz are attenuated at 18dB/OCT. Use this switch for band-limiting high-frequency speakers in a bi-amplified system.
AmPlus 50 Amplifier Simple Monophonic Installation

- INPUTS A: Ch1, Ch2
- LEVEL: Ch1, Ch2
- BASS GAIN: Ch1, Ch2
- REMOTE VOLUME: Ch1, Ch2

Internal Switch Settings:
- High Pass Filter: OFF

Remote Volume Control

Tap settings: less than or equal to 50W

Power Amp 1

4-16 Ω

Remote VCA Control

70/100V

Amplifier Mode Switch

4-16 Ω

4-16 Ω

Remote Volume Control

70/100V

4-16 Ω

Remote Volume Control

Source

AmPlus™ 50

Remote Volume Control

BASS GAIN

Remote Volume Control
**AmPlus™ 50 Amplifier Specifications**

**Power output**
- 70V mono: 50W into 98Ω
- 100V mono: 50W into 196Ω
- 4Ω mode: 70W into 4Ω

**Input sensitivity**
315mV required to drive both channels to full power in any mode

**Input attenuation**
0dB to ∞

**Input/Output configurations**
1. Mono into 4Ω load
2. Mono into 70/100V load
3. As an extension to the AmPlus 100 amplifier

**Input impedance**
- 32kΩ balanced
- 11kΩ unbalanced

**Line output impedance**
600Ω

**Line output distortion**
≤0.1%

**Frequency response (active EQ bypassed)**
- 4Ω outputs: 40Hz – 16kHz, ±1dB
- 70/100V outputs: 60Hz – 16kHz, ±1dB

**THD @ rated power**
- 4Ω outputs: ≤1% THD (40Hz – 16kHz)
- 70/100V outputs: ≤1% THD (60Hz – 16kHz)

**Hum and noise**
Power amplifier outputs: 80dB below maximum output with 4Ω load

**Controls**
- Inputs 1 and 2, input attenuation, remote volume, bass adjust effects bandwidth of 50Hz – 150Hz by 0 – 10dB.
- Amplifier mode switch.
- Front panel power switch.

**LED indicators**
- Power: front panel

**AC power consumption**
- 120V–AC, 50/60Hz, 200W max
- 220-240V–AC, 50/60Hz, 200W max

**Operating temperature range**
(passively cooled, top and bottom vents)
- 12º F to 120º F (-10º C to +50º C)

**Special features**
- Remote volume control
- Turn on/off muting
- Clip detection and limiter
- Short circuit protection
- DC offset protection
- Thermal limiting
- Stable into reactive loads
- RFI protection
- International safety approvals under UL-6500, CSA-E65, IEC-65
- EMC CE compliance

**Option card accessories**
EQ cards: (Model 8 loudspeaker, Model 25 loudspeaker, Model 32 loudspeaker, Model 1B Acoustimass® module)

**Terminations**
Inputs and outputs are quick connect terminal blocks

**Size**
- 17"W x 10"D x 3½"H
  (43.2 x 25.4 x 9.5 cm)
  (desk mount)
- 19"W x 10"D x 3½"H
  (48.3 x 25.4 x 9.5 cm)
  (rack mount, chassis supported)

**Weight**
- 20 lb (9.1 kg)

**Associated equipment**
- Rack mount kit
USA
Bose Corporation, The Mountain
Framingham, MA 01701-9168
1-800-288-BOSE (1-800-288-2673)
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