System Power Amplifier (SPA)



Installation Guide

SPA2-60 Amplifier SPA4-60 Amplifier SPA2-200 Amplifier SPA4-100 Amplifier

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.

What's in the Box

| | (1x) | | (1x) | | (2x) | | (2x) |
|--|--------------------|--|--|--|--------------------|--|--------------------|
| SPA2-60 SPA2-200 SPA4-60 SPA4-100 | | AC Power Cord, US | | Rack Ear QSC P/N CH-001344-00 | | Joining Plate QSC P/N CH-001345-00 | |
| | (2x) | | (6x) | | (6x) | | (4x) |
| Rack-Ear Spacer QSC P/N CH-001386-00 | | Phillips Pan Head M4 x 7 mm | | Phillips Flathead M3 x 6 mm | | Foam Spacer QSC P/N PL-001023-00 | |
| | (1x) | | SPA 2-channel (1x) SPA 4-channel (2x) | | SPA 2-channel (1x) | | SPA 2-channel (1x) |
| Rack-Ear Cover Labo QSC P/N LB-001138-00 | pel | Euro Plug 3.5 mm, 4 pos, grn QSC P/N CO-000649-00 | | Euro Plug 3.5 mm, 5 pos, grn QSC P/N CO-000644-00 | MANA | Euro Plug 3.5 mm, 4 pos, blk QSC P/N CO-000645-00 | MAN |
| | SPA 4-channel (1x) | | SPA 4-channel (1x) | | (1x) | | (1x) |
| Plug 3.5 mm, 10 pos, grn QSC P/N CO-000681-00 | | Plug 3.5 mm, 10 pos, grn QSC P/N CO-000683-00 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Warranty TD-000453 | | Safety Information | on |

TD-000500-00-F



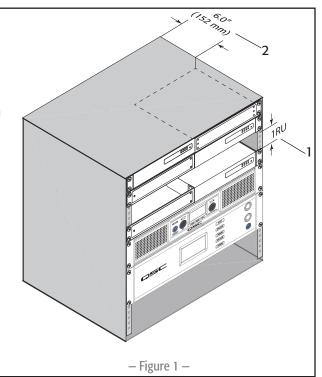
Installation

Ventilation

- Recommend 1RU (1.75 in / 44.45 mm) space above the amplifier.
- Minimum open space of 6 inches measured from back of amplifier.



NOTE: QSC System Power Amplifiers contain advanced protection circuitry which allows them to reduce output power in order to maintain safe operating temperatures. Insufficient ventilation may result in the amplifier reducing output power during normal operation (indicated by Limiter/Protect LEDs illuminating red). To reduce the possibility of thermal limiting, and allow proper heat dissipation, we recommend that you keep the space directly above and to the rear of these amplifiers free of obstacles.



Select the Amplifier Installation Configuration

Choose one of the following configuration options:

A. One Amplifier 19-inch Rack (Left or Right Mount) on page 3

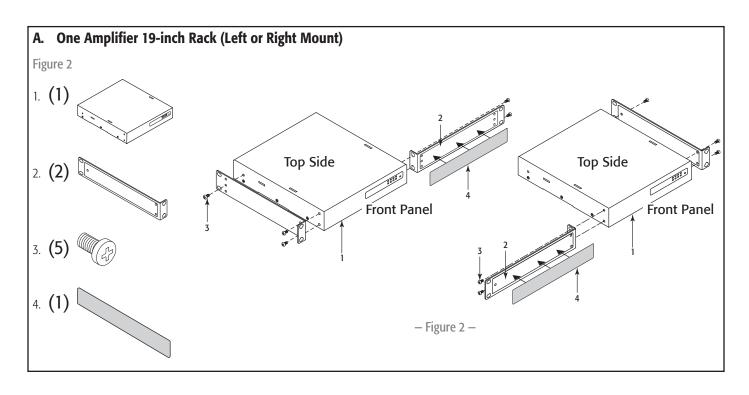
B. Two Amplifiers 19-inch Rack (Front or Rear Facing Out) on page 3

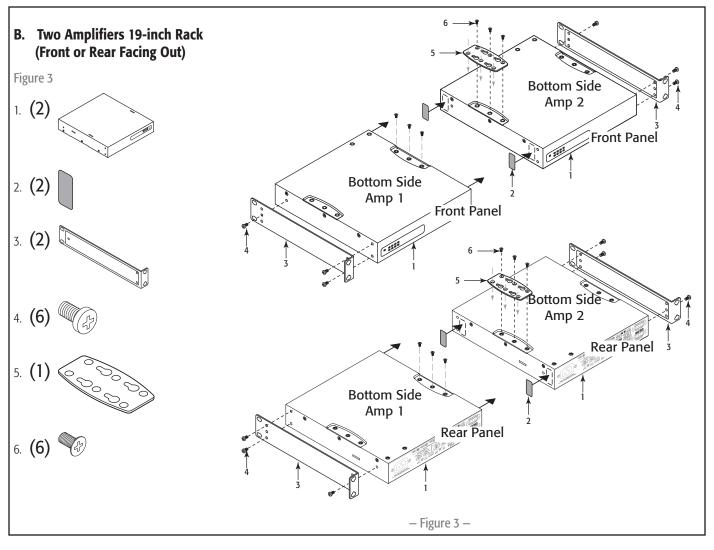
C. One Amplifier Half Rack (Front or Rear Facing Out) on page 4

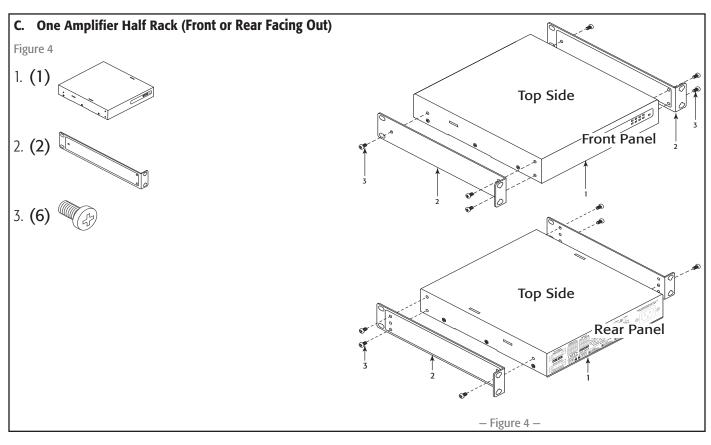
D. Under Table or on Wall on page 4

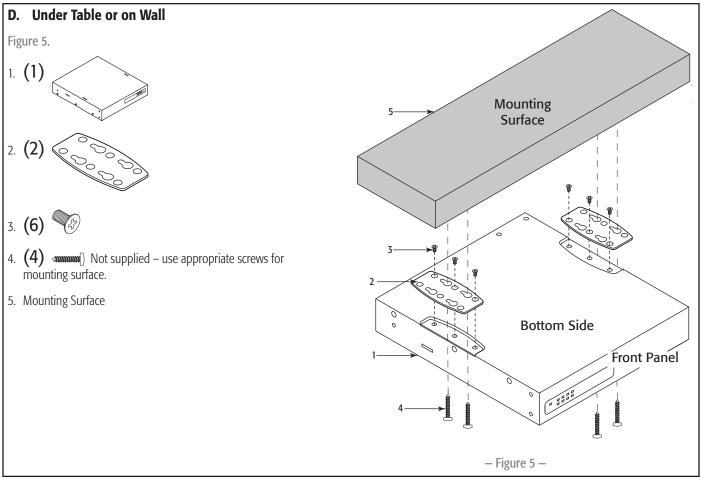
E. Free-Standing on Desk/Table on page 5

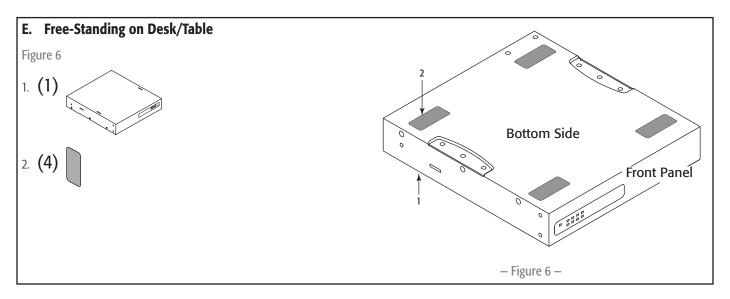
F. Plenum Installation on page 5

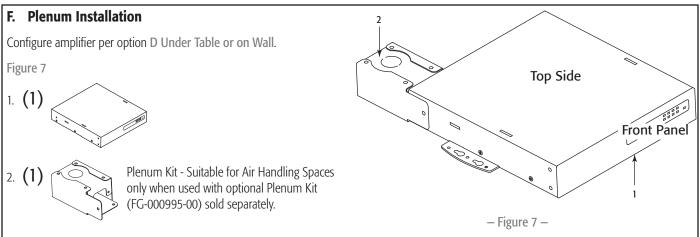




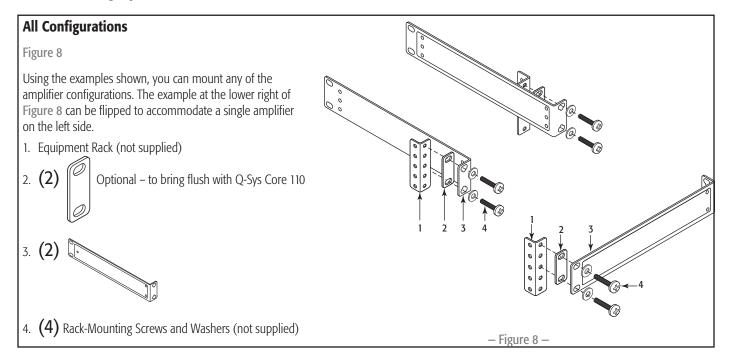








Rack-Mounting Options

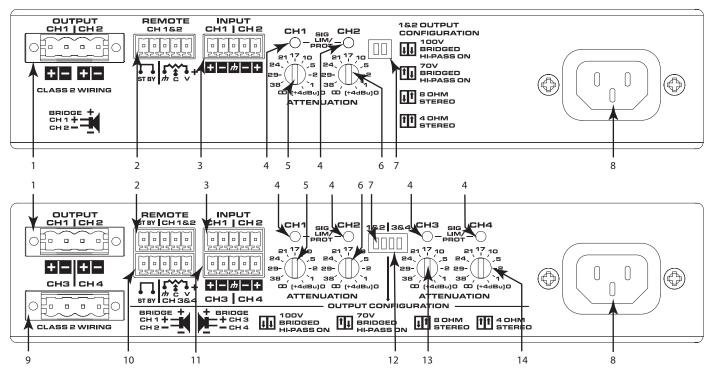


Front Panel

2 CHANNEL AMPLIFIER 4 CHANNEL AMPLIFIER SPA2 SPA4 LIMITER/PROTECT LIMITER/PROTECT POWER POWER SIGNAL 3 2 Input Signal Limiter / Protect Power Limiter / Protect Input Signal Power Red - Protect / Mute Blue – Present Red - Protect / Mute Blue - Present Blue - On Blue - On Orange - Limiter on Orange - Standby Orange – Limiter on Orange – Standby

- Figure 9 -

Rear Panel



- Figure 10 -

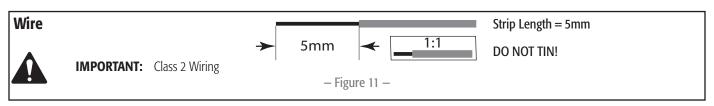
- 1. Output Channels 1 & 2
- 2. Remote Control Channels 1 & 2
- 3. Input Channels 1 & 2
- 4. Channel 1 thru Channel 4 Status LEDs
 - a. Green Normal Signal Level
 - b. Amber Input or Output Overload/ Clipping or Thermal Limiting
 - c. Red Limit or Protect Mode
 - d. Red Thermal Limit or Protect Mode
 - e. Red Mute 1

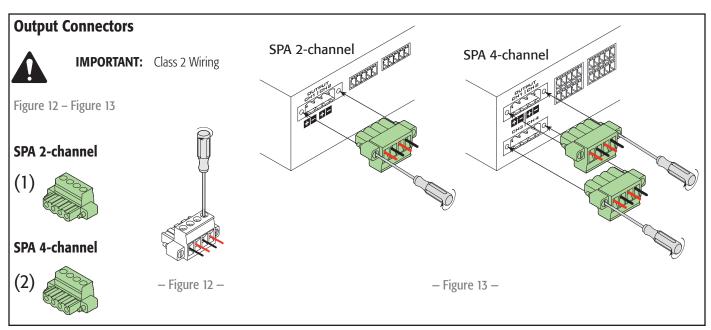
- 5. Channel 1 Attenuator Control
- 6. Channel 2 Attenuator Control
- 7. Mode Configuration Switches Channel 1& 2
- 8. AC Power Connection
- 9. Output Channels 3 & 4

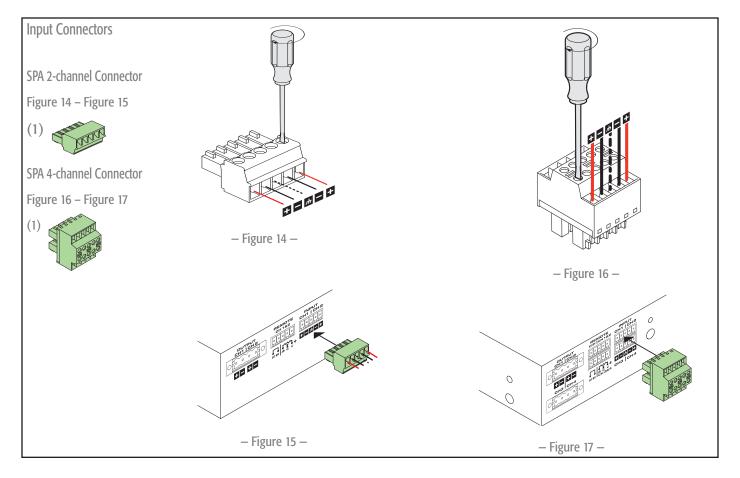
- 10. Remote Control Channel 3 & 4
- 11. Input Channels 3 & 4
- 12. Mode Configuration Switches Channel 3 & 4
- 13. Channel 3 Attenuator Control
- 14. Channel 4 Attenuator Control

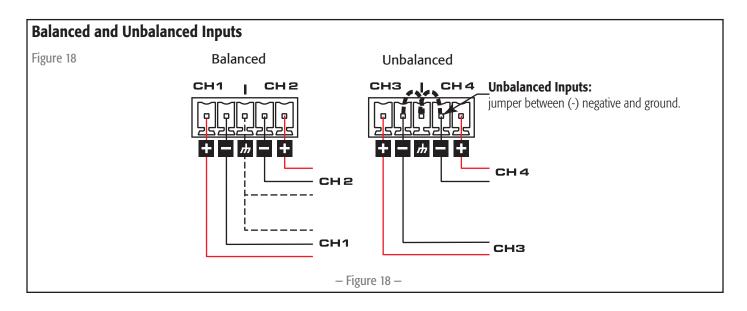
¹ No signal for 10 minutes, amplifier outputs are muted (LEDs are red). No signal for 25 minutes, amplifier is put in Standby Mode (Rear LEDs are off).

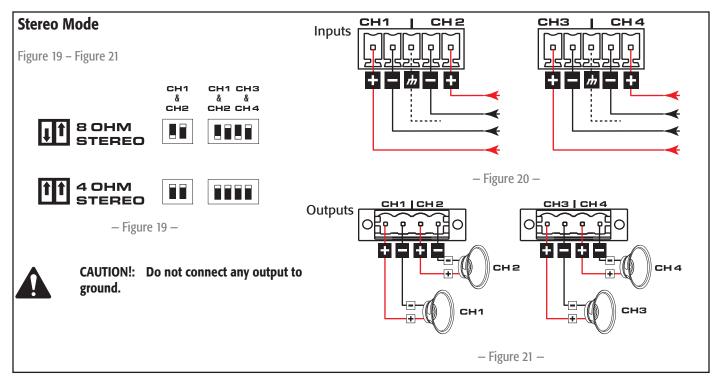
Connections

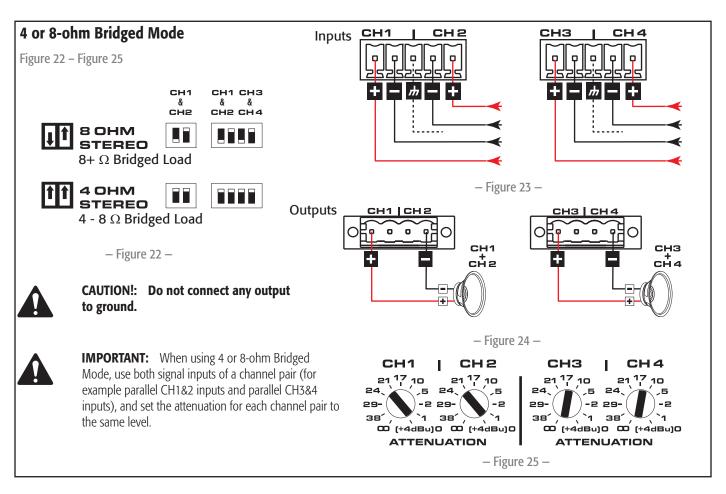


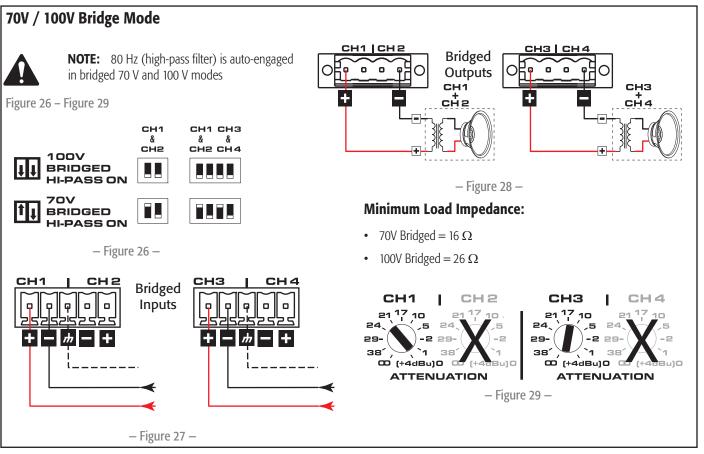


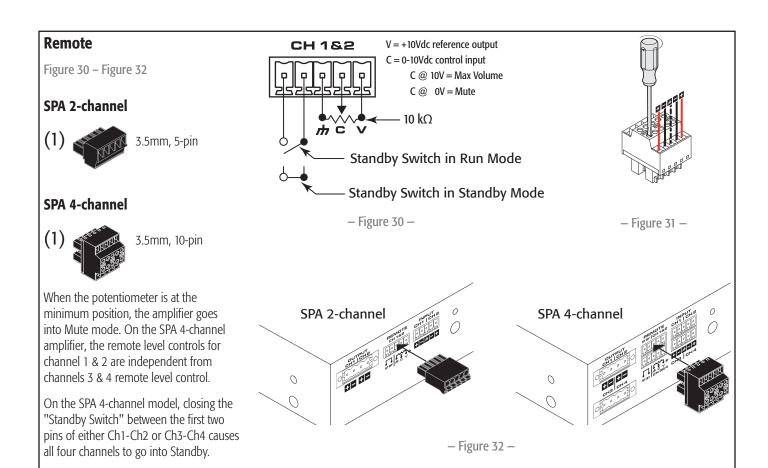














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