

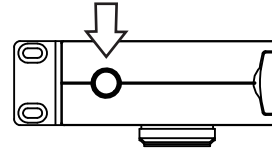


RackAmp DSP v2

Important RackAmp DSP v2 Rev Info - Hardware 2.0 / Firmware 1.7

When first powered up or after Factory Reset, you **MUST** pick the Triad subwoofer model the amp will drive. Once confirmed it can only be changed in the Installer Setup Menu. Triad InWall & InCeiling subwoofer model names are labeled on their front baffles.

Default **POWER ON METHOD** is **AUTO**. For **IR ON & OFF** commands to work, change **Power ON Method** to **IR**. To force the amp **ON** or **OFF** to Standby regardless of Power On Method, press & hold **Standby power button 4 seconds**. This also forces the **Power On Method** to **MANUAL**.



Quick Start Guide Setup instructions are for typical multichannel Home Theater applications with **AV Receiver or Preamp-processor**. For more detailed setup info or other applications read or download "SubAmp DSP Installers Manual v1.5-1.6-2.0" online at http://www.triadspeakers.com/products/product_manuals/triad_dsp_manuals.zip.

Triad RackAmp DSP v2 drives speaker loads of 4 ohms or greater. The only subs useable in pairs on one RackAmp 350 are special order 8 ohm InCeiling Mini/8, Mini FlexSub, InWall or InCeiling Bronze, & InWall Bronze/4 SlimSubs, all labelled 8 ohms.

Menu changes occur in real time. What you see is what you hear. User Menu changes are saved instantly and automatically. Installer Setup Menu changes are saved when the Back button is pressed. If the amp powers down while in the Installer Setup Menu, changes will not be saved. When switched to 12V Trigger **POWER ON METHOD**, the amp will not power OFF to Standby until you **BACK** out of the Installer Setup Menu.

Only unbalanced Left & Right Line Inputs can be LOW PASS FILTERed. LFE and Balanced Inputs cannot.

LFE & Balanced Thru(puts) pass thru their respective Inputs without DSP menu changes or adjustments.

Left & Right Line Outs can HIGH PASS FILTER & DELAY Line Inputs – to cross over and time align 2-channel Main speakers.

IR (Infrared) Input accepts IR distribution; IR Pass Thru is for daisy chaining IR to multiple amps.

For repeatability, calibrate to the **REF Preset**. Changes made to **User Menu are saved immediately except for VOLUME (see below) and NIGHT PRESET**. When **NIGHT PRESET** is selected, amp reverts to the previously selected **PRESET** after the amp is unpowered or switched to Standby.

User Menu VOLUME changes are temporary & volatile, reverting to calibrated 00dB when the amp is unplugged, switched to **STANDBY** or when another preset is selected. Make permanent level changes either in your **AV Receiver/Pre-pro** or in RackAmp's **INPUT GAIN LEVEL** in the Installer Setup Menu.

V2 RackAmps automatically adjust to AC Line voltages from 110V to 240V. The only change necessary is an IEC power cord appropriate for local conditions. Fuse values do not change. There are no internal fuses. The only accessible fuse is at the bottom of the IEC power cord socket.

Max Power Draw, Fuses, & Heat - 350 DSP: 3.15 Amps @ 500 W AC In, 1707 BTU/Hr; 600 DSP: 6.3 Amps @ 700W AC in, 2390 BTU/Hr.

LOWPASS FILTER default is LFE which bypasses the filter. This is recommended when the amp is used with bass management from an AVR or Pre-pro.

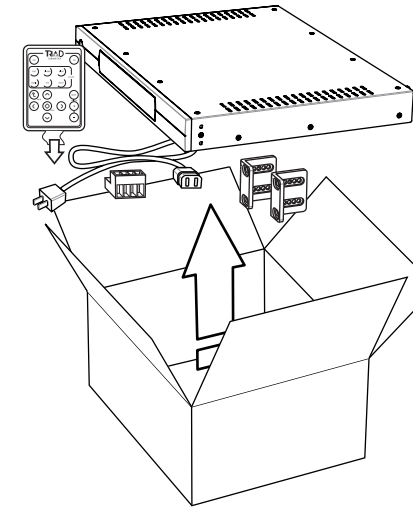
Latency (Processing time delay from input to output) is just 1.5 mS.

If there is no output, the amp may have gone into protection. Check your speaker line for shorts, correct if necessary, and reset RackAmp by disconnecting AC power for at least 30 seconds.

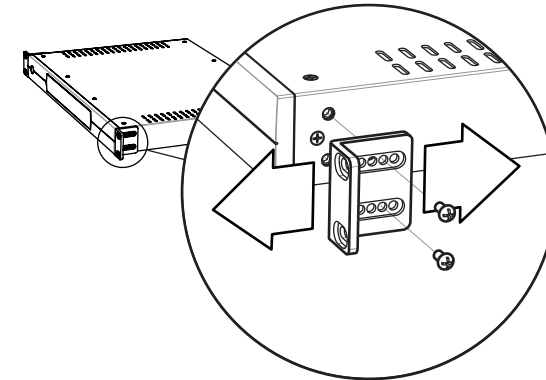
IP computer interface lets you set-up the amp from a different room and access advanced features (6 Band Parametric EQ and 2 adjustable Presets). IP control cannot power the amp ON & OFF from Standby. For IP details, see our document **RackAmp IP Instructions v2.0 - IP Setup & Features.doc** on the Subwoofers **SUPPORT** page of our website <http://www.triadspeakers.com/support.htm#sub> or contact Triad Support at 800-666-6316 or Service at 503-517-2668.

Installer Setup Menu BOUNDARY EQ compensates for response errors caused by sub location. Keep default **MIDWALL** if sub is located within 2 ft of a wall/floor intersection, select **CORNER** if within 2 ft of a corner, and **INROOM** if more than 2 ft from a wall or corner.

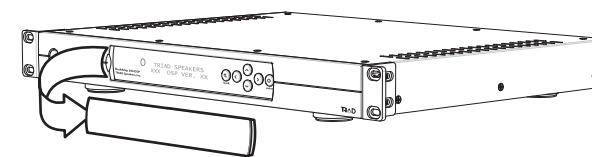
A Unpacking / Contents



B Rack Ear Installation

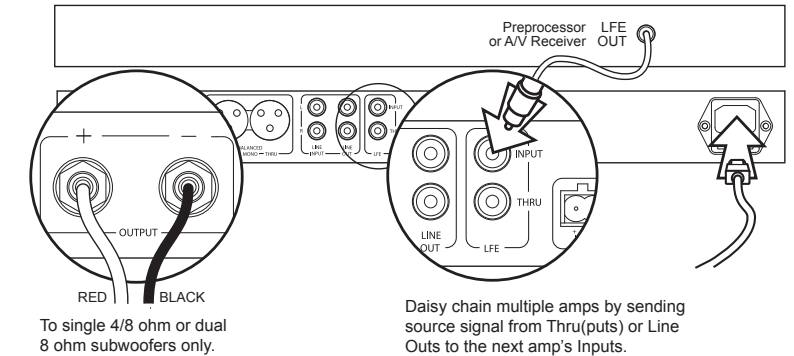


C Remove Display Cover



D Connections

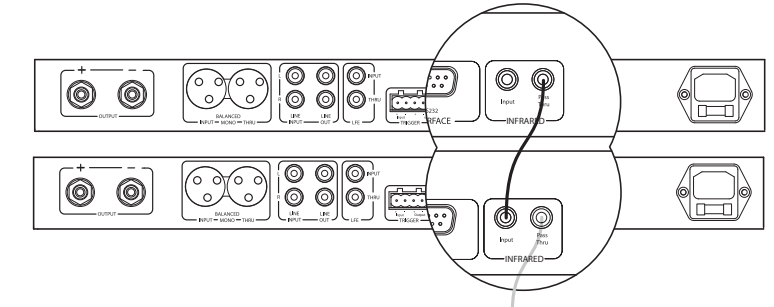
Output (to subwoofer), Inputs, AC Cord



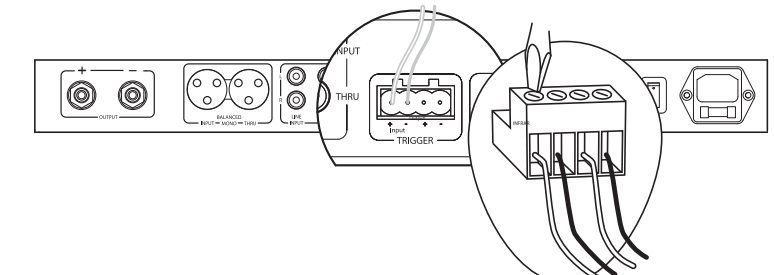
RED BLACK
To single 4/8 ohm or dual 8 ohm subwoofers only.

Daisy chain multiple amps by sending source signal from Thru(puts) or Line Outs to the next amp's Inputs.

IR Input - Accepts feed from IR distribution using cables with 3.5 mm plugs. Plugged Input disables front panel IR eye. Daisy-chain IR to multiple RackAmps from IR Output to next amp's IR Input.



12 Volt Trigger – Via snap-in/pull out phoenix connector. Input from low voltage (5-20V) trigger source. Daisy-chain LV Output to next amp's Input.



Features & Benefits - Triad RackAmp DSP v2

Powerful RackAmp DSP v2 technology combines Class A/B performance with near Class D efficiency to provide superior bass, set-up, calibration, & control. V2 RackAmps team with Triad subwoofers to produce high impact, explosive bass with films as well as nuanced & detailed bass with music. You can hear the difference.

- **350 & 600 Watt Amplifiers.** 1 Rack Space High. Saves rack and shelf space. 350 drives one 4 ohm or two 8 ohm Mini, Bronze, & SlimSubs; 600 drives one 4 ohm Silver, Gold, & Platinum Sub.

- **Energy Star Compliant.** High efficiency means low heat - saving energy & money. You can stack RackAmps or place them in a cabinet with minimal ventilation..

- **Balanced & Unbalanced Input and Output.** Mate DSP SubAmps with high-end systems.

- **3 Convenient Set-up Methods:**
Plug and Play delivers real-world high performance, easily.
EZ Menu Set-up for even higher performance – with both 2-channel and home theater systems.
IP Set-up for remote amplifiers and Advanced Features.

- **Boundary EQ.** Makes your sub perform its best anywhere in the room (InRoom, MidWall, or Corner).

- **Unique Multi-Sub Setup.** Delay & Input Gain adjustments combine with daisy chaining to make multiple subs perform better as a team than they do separately. Hear significant improvements in bass impact, dynamics, & frequency response.

- **2-Channel Crossover & Delay on Line Outputs.** Improve 2-channel systems with crossovers, bass management & time alignment.

- **4 Power/Control options.** Auto-sense, LV Trigger, IR (infrared), and Manual power-on methods let you integrate DSP SubAmps into every type of system control.

- **Six User Presets.** Choose the right sound for every condition, from a gentle Night Mode to two installer-adjustable (via IP) Custom Presets for individually tailored sound.

- **Dynamic Menu.** Set-up changes take effect instantly so you hear changes as you make them.

- **IP Addressable Computer Interface** See instructions on Triad's Support page, Subwoofer tab at <http://www.triadspeakers.com/support.html>

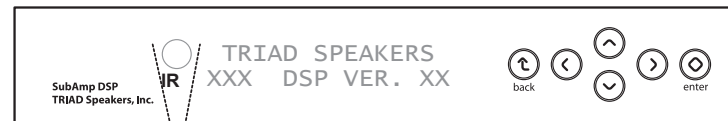
- 1) Remote Set-up. Use to set-up & calibrate when your subwoofer and amp are in different rooms.

- 2) RoomEQ. Use six-band parametric equalizer to fine-tune your subwoofer to the room.

- 3) 2 Installer-adjustable Custom Presets. Each includes 1 additional band of Parametric equalization plus adjustable default volume level.

Menus & Set-up

Use Cursors & Enter buttons on remote control or on front panel.



Menu Navigation, Operation and Saving:

Use buttons to navigate through menus.

Items between arrows are selected and active immediately.

Use (Left & right) buttons to change values. ENTER is not needed unless prompted.

User Menu changes are saved instantly. To save Installer Menu changes and exit: Press Back.

Submenus appear in the Menu only when the related menu item above them is active. They are lightened in these drawings for clarity.

Example: You see CONFIRM only after PICK SUB model is entered.

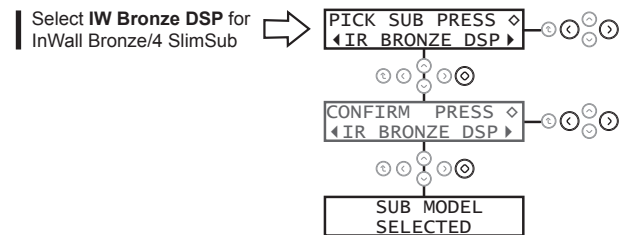
To enter Installer Menu, from User Menu, press these 3 buttons:



RackAmp DSP v2

When 1st Powered ON

Select Triad subwoofer model.



User Menu

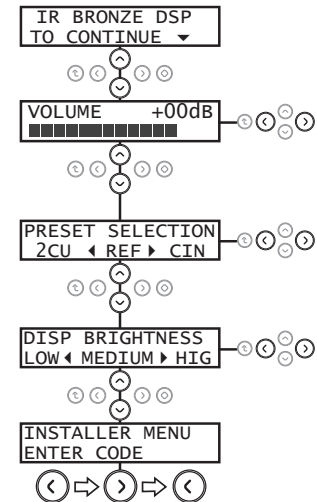
You must wait 10 seconds to continue.

MUTE, -40db to +11db. VOLUME is temporary and returns to 00db when amp is unpowered, switched to Standby, or a different Preset is selected. For permanent changes, use Installer Menu INPUT GAIN.

REFERENCE (for repeatable calibration), CINEMA, THX, NIGHT, CUSTOM 1, CUSTOM 2. PRESETS let end users adjust bass for conditions.

LOW, MEDIUM, HIGH. DISPLAY BRIGHTNESS adjusts front panel display.

To enter Installer Menu, press these 3 buttons:



Installer Menu

IP Address – For IP setup (see side 1).

INROOM, MIDWALL, CORNER. BOUNDARY EQ compensates for frequency response errors caused by sub location. Select sub location within 2 feet.

