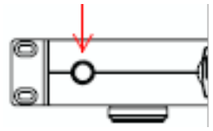
## Important RackAmp DSP v2 Rev Info - Hardware 2.0 / Firmware 1.6

**When first powered up or after Factory Reset, you MUST pick the Triad subwoofer model the amp will drive to optimize its performance with EQ & limiting. Once confirmed, it can only be changed in the Installer Setup Menu. Triad InWall & InCeiling subwoofer models 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" online at http://www.triadspeakers.com/products/product_manuals/triad_dsp_manuals.zip**.

**Triad RackAmp DSP v2 can drive speaker loads of 4 ohms or greater**. The only subs that can be used in pairs on a single RackAmp 350 are standard InWall SlimSub/4, InCeiling Mini/8, & Mini FlexSub plus special order 8 ohm InWall or InCeiling Bronze Subs. All have 8 ohm labels on their front baffles.

**Menu changes occur in real time. What you see is what you hear. User Menu changes save instantly and automatically. Installer Setup Menu changes save 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 can not be LowPass Filtered.

**LFE & Balanced Thru(puts) pass thru their respective Inputs** with no DSP changes or adjustments.

**Left & Right Line Outs can HIGH PASS FILTER & DELAY Line Inputs** – To cross over and time align 2-channel systems.

**IR (Infrared) Input & Pass Thru are for daisy chaining IR to multiple amps**. IR Input will not accept an IR distribution feed. Use an emitter over the front panel IR receiving eye. It is hidden by the Display Lens Cover.




**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 another preset is selected. Make permanent level changes either in your AV Receiver/Pre-pro or with 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 fuse is accessible at the bottom of the IEC power cord socket.

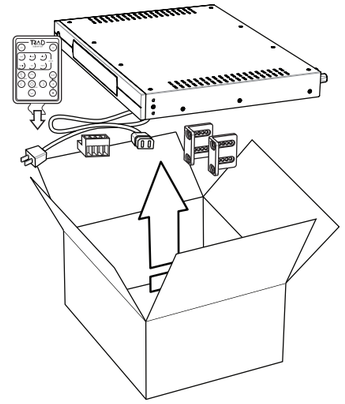
**LOWPASS FILTER default is LFE which bypasses the filter.** This is recommended when the amp is used with bass management from an AVR or Pre-pro.

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

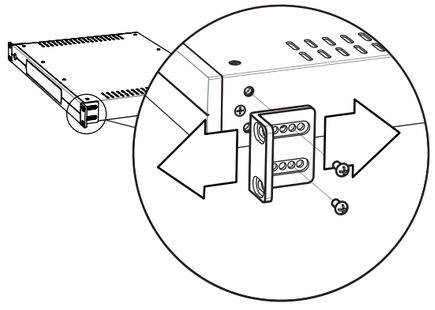
**If there is no output, the amp may have gone into protection.** Check your speaker line for shorts, correct if necessary, and reset RackAmp by disconnecting AC power for at least 30 seconds.

**IP computer interface lets you set-up the amp from a different room** and access its 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 Instructions 1.0 for IP Setup and Advanced Features.doc on the HOW TO or SUPPORT pages of our website http://www.triadspeakers.com/index.html or contact Triad Sales at 800-666-6316 or Support at 877-325-8107.

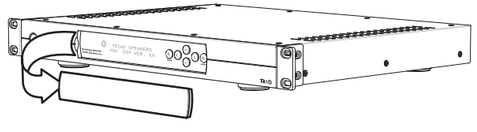
## A Unpacking / Contents



## B Rack Ear Installation

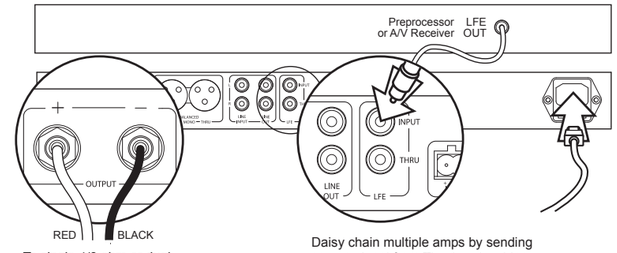


## C Remove Display Cover



## D Connections

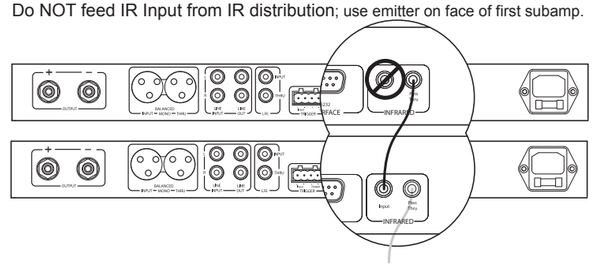
**Output** (to subwoofer), **Inputs, AC Cord**



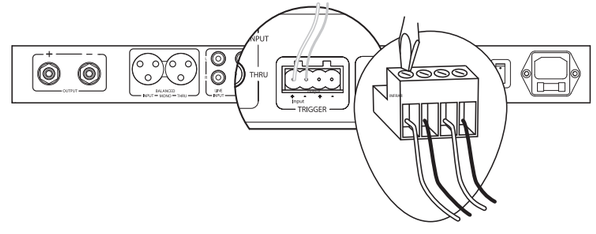

To single 4/8 ohm or dual 8 ohm subwoofers only.

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

**IR Input** - For daisy chaining multiple amps only, using cables with 3.5 mm plugs. Plugged Input disables front panel IR eye.
Do NOT feed IR Input from IR distribution; use emitter on face of first subamp.




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



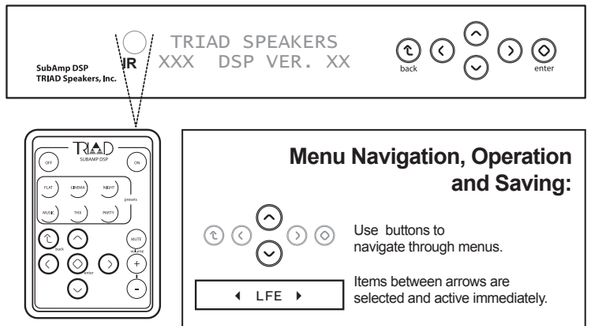
## Features & Benefits - Triad RackAmp DSP v2

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 sub-woofers 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.
- **Energy Star Compliant.** Higher efficiency means low heat plus energy & $$$ savings. 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.
  Advanced Computer Set-up for ultimate performance.
- **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.
- **2-Channel Crossover & Delay on Line Outputs**. Improve 2-channel sound with bass management & time alignment.
- **4 Power/Control options**. Auto-sense, 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 Custom Presets for individually tailored sound.
- **Dynamic Menu**. Set-up changes take effect instantly so you hear the results.
- **IP Addressable Computer Interface**.
  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) **Two Installer-adjustable Custom Presets**. Each includes 1 band Parametric equalization and adjustable default volume level.
  4) **Remote Access**. For troubleshooting without a service call.

## 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.

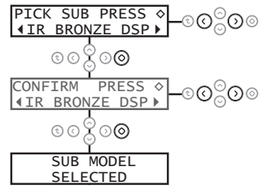
User Menu changes are saved instantly. To save Installer Menu changes and exit: Press Back.

Submenus appear in the Menu only when their main 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.

## When 1st Powered ON

Select Triad subwoofer model.




## User Menu

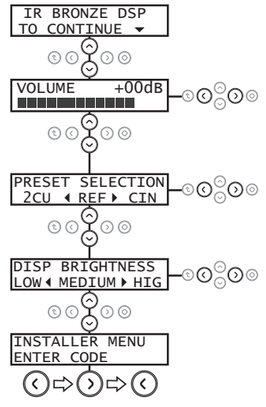
You must wait 10 seconds to continue.

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 after PICK SUB model is entered.

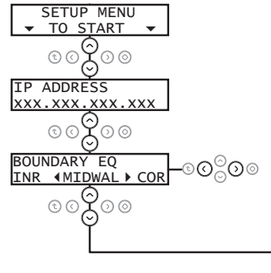
To enter Installer Menu, press these 3 buttons:




## Installer Menu

IP Address – Call Triad for IP information.

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




30hz to 300hz, LFE. SUB LOWPASS filter for speaker Output only. Use LFE to bypass filter when using crossover in your AVR or pre-pro.

12, 24, 48 db/octave SLOPE for SUB LOWPASS

OFF, 10 to 100hz. SUB HIGHPASS filter affects speaker Output only. It sets bass extension like a subsonic filter and determines headroom. Do not turn OFF under normal use.

12, 24, 48 db/octave SLOPE for High Pass Filter.

00, -90, -180, -270 degrees of PHASE control.

-15db to 00db to +15db. INPUT GAIN for permanent level adjustments to calibrate multiple subs.

THRU, 30–300hz. Left & Right LINE OUT (only) HIGH PASS Filter. Crosses over Main speakers in 2-channel systems without bass management. THRU bypasses filter; sends Line Input to Line Out.

12, 24, 48 db/octave Slope for LINE OUT HP Filter.

LINE, OFF, SUB. ROUTE DELAY TO Line Outs to time align Main speakers in 2-channel system or to Sub to time align either multi sub or 2-channel systems (see online SubAmp Manual for details).

00.0 to 50.0 milliseconds (= feet) DELAY.

AUTO, 12V, IR, MANUAL. POWER ON METHOD

01 TO 20 mV – AUTO ON LEVEL sets the input voltage in millivolts needed to turn the amp on & off to Standby when AUTO POWER ON METHOD is selected above.

5, 10, 20, 30, 60 AUTO OFF MINUTES sets the time until the amp powers OFF to Standby with no signal above that set in AUTO OFF LEVEL above.

ROOM EQ – Call Triad for IP information.

CURRENT MODEL EQ - Sets up amplifier's frequency response and limiting for specific Triad subwoofer models.

Resets amplifier to factory defaults. Requires confirmation below.

