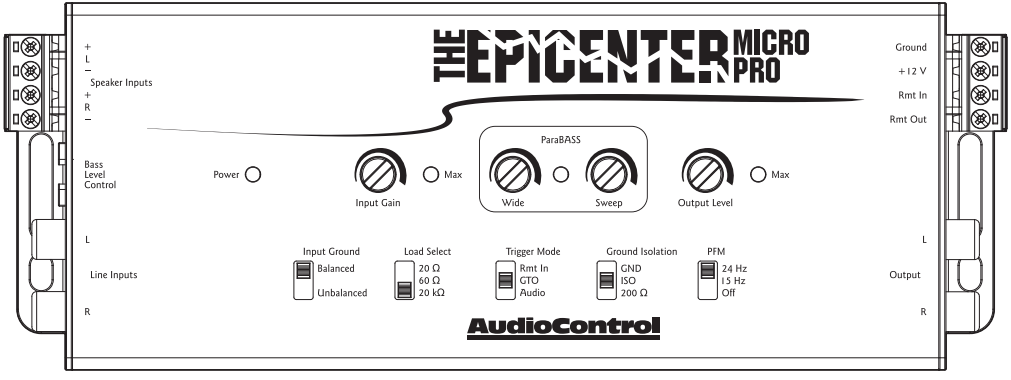
AudioControl®

Making Good Sound Great™



Features

- The Original Bass Maximizer
- ParaBASS® Controls
- Selectable PFM Subsonic Filter
- Built-in Line Driver
- Balanced Line Level Inputs
- 40-Volt Capable Speaker-Level Inputs
- Load Selection Switch
- GTO™ and Audio Sense Turn On
- Dual-function Remote Level Control
- Can allegedly deadlift a '90s Astro Van

THE EPICENTER MICRO PRO

FOR COLOSSAL BASS ENHANCEMENT ONLY

Owner's Enjoyment Manual

So you've decided to go PRO!

Building on the powerful features of The Epicenter Micro and everything you have come to know and love about AudioControl's legendary bass processing, The Epicenter Micro PRO adds more control and tuning potential for those who wish to push even further into the unexplored outer realms of extreme bass performance.

The Epicenter Micro PRO is designed to enhance bass in every conceivable scenario, from OEM integration to aftermarket. High-power handling speaker-level inputs with load selection and balanced line-level inputs are now boosted by a built-in line driver. During setup, select from two PFM subsonic filter frequencies, or bypass the subsonic filter altogether. Multiple turn-on modes offer excellent flexibility for all installations, especially OEM integration, and selectable ground isolation can be rather helpful in solving various ground-related noises. The dual-function ACR-4 allows you to quickly adjust The Epicenter® effect as well as overall volume control.

With so much power packed into the compact chassis of The Epicenter Micro PRO, it might be tempting to jump straight into the installation. But before you rush off and learn the hard way what maximum excursion means, take a breath, grab a Georgetown 9lb Porter, and sit back for a relaxing read through this manual. Your subwoofers will thank you—even if your neighbors don't.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus under water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as mufflers, silencers, exhaust pipes, or other apparatus (including amplifiers) that produce heat.
9. **WARNING:** Improper installation may lead to permanent injury or death. Installation of the apparatus must be done with great care by qualified personnel, to prevent damage to fuel lines, power, and other electrical wiring, hydraulic brake lines, and other systems, that might compromise vehicle safety.
10. Provide +12V and Ground insulated wiring of 14 to 18 AWG to ensure adequate current to the device.
11. Use rubber grommets to protect wiring whenever passing wires through metal openings or bulkheads.
12. Only use attachments/accessories specified by the manufacturer.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power input terminals are damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus does not operate normally, or has been dropped.
14. Exposure to high sound pressure levels may lead to permanent hearing loss. Take every precaution to protect your hearing.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Caution: to reduce the risk of electric shock, do not disassemble the apparatus, other than to remove the top panel to access the balancing adjustments on the PCB. There are no user-serviceable parts inside. Refer servicing to qualified personnel.

Recycling notice: If the time comes and this apparatus has fulfilled its destiny, do not throw it out into the trash. It has to be carefully recycled for the good of mankind, by a facility specially equipped for the safe recycling of electronic apparatii. Please contact your local or state recycling leaders for assistance in locating a suitable nearby recycling facility. Or, contact us and we might be able to repair it for you.

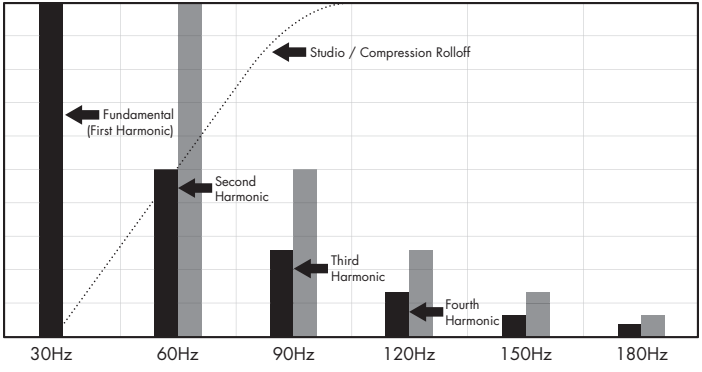
The Story Behind The Epicenter® Bass Restoration

Bass Maximization Technology – Maybe more than once in a lifetime, you may ask yourself, "Why would I need to restore bass?" The truth is that during the recording process and in the compression process as well as through the various streaming algorithms, low frequency information can be "mixed" down or filtered out. It's not that recording engineers are out to get you; in fact they are looking out for your best interests and are concerned that many speaker systems cannot handle "truly" low bass information. *The audio systems in many late-model vehicles may also be permanently high passed, where there is simply very little bass despite the volume level or source.*

The patented circuit inside The Epicenter Micro PRO is designed to reproduce low frequency information by analyzing the upper frequency ranges and detecting musical harmonics. These harmonics then allow The Epicenter Micro PRO to drop down a few octaves and reproduces the "missing" bass notes.

It is therefore best to feed your Epicenter's appetite by supplying it with a fresh diet of full range signal whenever possible. If you cannot supply the Epicenter with full range, turn your low pass filter (LPF) up as high as it will go. Don't forget to apply a low pass filter at your amplifier or DSP.

The bottom line is that The Epicenter technology gives you deep, prodigious, body shuddering, heart stopping bass.



Pro Tip: *Looking at this graph above, you can see that the Epicenter looks at the higher frequencies to create the effect and ramps up the effect as it moves down the frequency spectrum. When a Low Pass only signal is used, the Epicenter doesn't receive enough signal to work with and loses a great deal of the impact that we designed it to have.*

Feature Highlights

Bass Maximizer – The Epicenter Micro PRO contains AudioControl's original Bass Maximization circuitry that accurately recreates and injects low frequency information back into the signal path. What that means in everyday terms is that The Epicenter Micro PRO will give more bass impact to your best 8-tracks and streaming services. US Patent #4,698,842.

ParaBASS® – What's the use of having amazing bass if you can't control it? The Epicenter Micro PRO has a unique equalization circuit that contours the restored bass to your sound system.

ACR-4 Dual-Function Remote Level Control – The ACR-4 dual-function remote offers convenient control over the Bass Maximizer effect (outer knob) and the output level or volume (inner knob). Every tune's mix is a little different and this remote allows you to dial in your subwoofer's performance like nothing else on this planet.

To enjoy full control over the Bass Maximizer effect and the output level, **the ACR-4 MUST be plugged into the Epicenter Micro PRO**. *If the ACR-4 is unplugged, the Epicenter Micro PRO will have no Bass Maximizer effect and no volume attenuation.*

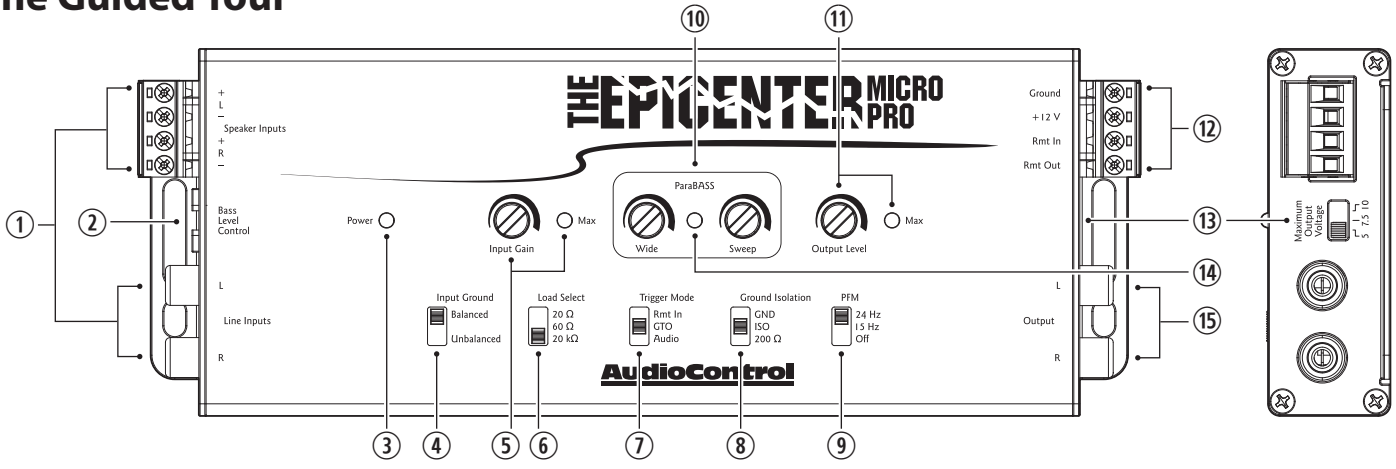
The **Epicenter Micro PRO is designed to be used with the ACR-4 ONLY!** *If an ACR-1 is used, the output will be severely attenuated regardless of knob position.*

PFM Subsonic Filter – This unique feature is legendary with many AudioControl fanatics for its ability to fine tune the bass response of any system, particularly systems utilizing tuned "ported" or "vented" subwoofer enclosures. With The Epicenter Micro PRO, there are now two subsonic frequencies to choose from: 24 Hz, and 15 Hz. Best be careful with that Bypass switch though; engage at the risk to your precious subs. Running full tilt on this baby can easily launch your sub right out of the basket, so the word here is "**careful please.**"

Built-in Line Driver – The best bass requires the cleanest signal possible. The Epicenter Micro PRO features a line driver designed from the ground up to work in harmony with the Bass Maximizer circuitry to ensure the maximum optimal output voltage for your installation.

Maximum Output Voltage Switch – The Epicenter circuitry has the ability to produce large amounts of deep, mind shattering bass without damaging your subwoofers. The Maximum Output Voltage switch gives you control over the voltage generated by The Epicenter Micro PRO to maximize the bass output of any mobile audio system while restraining destructive bursts of signal.

The Guided Tour

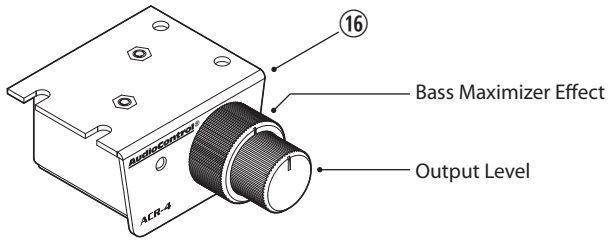


1. **Inputs** – The Epicenter Micro PRO offers Speaker Level and Line Level input connectors. Use the input connector best suited for your application. *Refer to the "Signal Connections" section on page 10.*
2. **Bass Level Control** – The ACR-4 dual-function remote level control connects here with the included cable. **The ACR-4 MUST remain plugged into The Epicenter Micro PRO at all times.**
3. **Power LED** – When the unit has been powered on, this LED will shine forth in glorious red.
4. **Input Ground** – By default, the inputs are set to Balanced. This switch can be used to troubleshoot noise in the system. *Refer to the "Troubleshooting" section on page 17.*
5. **Input Gain / Max LED** – This is the first and most critical stage of The Epicenter Micro PRO's internal signal chain. *Refer to the "Setting Gains" section on page 13.*
6. **Load Select** (applies to Speaker Inputs only) – The Epicenter Micro PRO's default 20 kΩ usually works best. The lower impedance options may be selected if the OEM system is not "cooperating." *Refer to the "Load Select (Load Matching)" section on page 13.*

7. **Trigger mode** – Three remote turn-on modes are available. Choose the mode best suited for your installation. *Refer to the "Remote Turn-on" section on page 10.*
8. **Ground Isolation** – Three ground isolation modes are available. The default ISO setting is typically best. This switch can be used to troubleshoot noise in the system. *Refer to the "Troubleshooting" section on page 17.*
9. **PFM (Subsonic Filter)** – The PFM Subsonic Filter attenuates frequencies below the selected frequency (24 Hz or 15 Hz). *Refer to the "PFM Subsonic Filter" section on page 12.*
10. **ParaBASS®** – ParaBASS allows you to shape The Epicenter Bass Maximizer effect to your specific application, preference, and vehicle acoustics. *Refer to the "Adjusting ParaBASS Controls" section on page 14.*
11. **Output Level / Max LED** – This is the final stage of The Epicenter Micro PRO's internal signal chain. *Refer to the "Setting Gains" section on page 13.*
12. **Power Terminal Block** – Connect power, ground, and remote trigger inputs and outputs here. *Refer to the "Power Connections" section on page 9.*
13. **Maximum Output Voltage** – Setting this switch properly ensures the best bass performance while preventing the signal from exceeding the maximum voltage set. *Refer to the "Maximum Output Voltage" section on page 12.*
14. **Bass Maximizer LED** – This little yellow LED dances when The Epicenter Micro PRO is doing its job—maximizing bass. How much or how little the LED dances depends on the input level from the source. Adjustments to the Bass Maximizer level from the ACR-4 (outer knob) will have no effect on this LED.
15. **Output** – Connect these RCAs to your amplifier's inputs and turn it up! *Refer to the "Signal Connections" section on page 10.*
16. **ACR-4 Remote Level Control** – The dual-function ACR-4 allows you to quickly adjust The Epicenter® effect as well as overall volume control. The ACR-4 was in the same box as this Epicenter Micro PRO, and amazingly enough, we included a pretty long cable for you to run through your vehicle for installing it in just the right position! *Refer to the "ACR-4 Remote Level Control" section on page 11 for mounting instructions.*

To enjoy full control over the Bass Maximizer effect and the output level, **the ACR-4 MUST be plugged into The Epicenter Micro PRO**. *If the ACR-4 is unplugged, the Epicenter Micro PRO will have no Bass Maximizer effect and no volume attenuation.*

The **Epicenter Micro PRO is designed to be used with the ACR-4 ONLY!** *If an ACR-1 is used, the output will be severely attenuated regardless of knob position.*



Quick Start

The Epicenter Micro PRO was designed to produce bass like you have never heard before. For the well initiated, this Quick Start may be sufficient, but even for the most experienced installer, we *strongly* recommend giving the unabridged installation instructions on the following pages a thorough read.

A smooth and painless installation of The Epicenter Micro PRO can be summarized in these steps:

1. **Location is everything** – Find a secure location to install The Epicenter Micro PRO. Securely mount it using the built-in mounting tabs.
2. **Signal Path** – The Epicenter Micro PRO should be installed before crossovers or EQs. If your head unit has a low pass filter that cannot be bypassed, set it to the highest available frequency.
3. **Power Connections** – Connect +12V and Ground to the power terminal block. If you are using the remote turn on lead from your source, connect that to the "Rmt In" terminal and set the Trigger Mode switch to "Rmt In." The "Rmt Out" terminal can be connected to your amplifier's remote turn-on input. The "Rmt Out" is always active regardless of the set Trigger Mode.
4. **Trigger happy** – If you are not using a remote trigger, you can set the Trigger Mode to GTO or Audio. GTO detects DC offset from OEM systems to trigger the unit on. Audio detects audio signal from any source, OEM or after market, to trigger the unit on.
5. **Signal Connections** – Connect your source to the inputs. If you are connecting to an OEM source, you may connect to the Speaker Level inputs which handle up to 40 Volts. If you are connecting to an after market source, use the Line Level Inputs. Never connect to both.
6. **Load Select** – While the default setting of 20 kΩ works for most systems, If you are connecting an OEM system to the Speaker Level Inputs and the OEM system will not output audio, sounds distorted, or exhibits any other load-related annoyance, you may need to try one of the other two options here.
7. **Remote Level Control** – Connect the ACR-4 remote to the Bass Level Control jack using the included cable.
8. **Maximum Voltage** – Set the Maximum Output Voltage switch to match your amplifier's input maximum. Check your amplifier's specs if you are unsure.
9. **PFM Subsonic Filter** – Leave the PFM Subsonic Filter switch alone. Or set it to 15 Hz if you have huge subwoofers and an amplifier to drive them. You could also turn the PFM off, but please work with local authorities to give residents plenty of time to evacuate.
10. **Input Gain** – Set the input gain using the Input Max LED to indicate when the signal has been maximized.
11. **ParaBASS®** – Connect The Epicenter Micro PRO to your amplifier. Set the ParaBASS controls to your liking.
12. **Output Level** – Disconnect The Epicenter Micro PRO from your amplifier (to protect your ears). Set the output level using the Output Max LED to indicate when the signal has been maximized.
13. **Nearly there** – Finalize the installation by reconnecting The Epicenter Micro PRO to your amplifier and mounting the ACR-4 to its permanent location. Run the included cable in the same tidy manner you have no doubt run the other cables in your system.
14. **Turn it UP!**

Installation and Setup

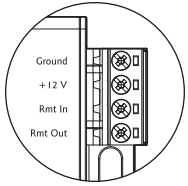
While the Quick Start (page 6) may be sufficient for the well initiated, we strongly recommend taking time to plan your installation and thoroughly read the installation instructions through the rest of this manual. If you are not comfortable or familiar with using tools, reading signal diagrams, or testing signals, RUN, don't walk, to your nearest authorized AudioControl dealer to have them perform this installation.

Placement

Signal Path – The Epicenter Micro PRO needs to be installed in the signal path after the source and BEFORE any crossover circuit. For the best experience, The Epicenter Micro PRO should also be installed before EQs or digital signal processors.

Mounting – Once you have selected a permanent mounting location, position the unit and mark the appropriate mounting holes with a felt-tip pen or scratch awl. Before doing anything else, make sure you are not about to drill a hole in a gas tank or pierce any existing wiring. Nothing ruins your day more than an expensive repair bill. Drill a small pilot hole and secure the chassis of The Epicenter Micro PRO with self tapping screws.

Power Connections



WARNING: *Failure to disconnect the negative terminal of your battery prior to the installation of The Epicenter Micro PRO can result in a warm tingly feeling.*

(***Pro Tip:*** *You can remove the Power Terminal connector while wiring up)*

Ground Connection – Connect the Ground connector to the negative terminal of the battery, a ground bus, or a verified ground location using minimum 18 gauge wire.

Positive (+12V) Connection – Connect the +12V connector to a good constant source of 12 volts using the same gauge wire used for the ground connection.

To protect the vehicle electrical system, install a 1 amp fuse within 18 inches of your connection point.

Remote In (Rmt In) – Connect the Rmt In connector to a head unit's remote turn-on or another switched 12V source using 22 to 18 gauge wire.

If you are using GTO™ Signal Sense or Audio Sense, do not make this connection.

Remote Out (Rmt Out) – Connect the Rmt Out connector to the remote input on your amp using 22 to 18 gauge wire.

When the electrical connections are complete, you may reconnect the negative terminal to your battery.

Remote Turn-on

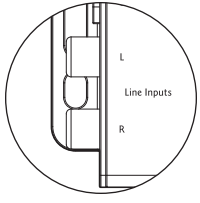
The Epicenter Micro PRO has three available turn-on modes. Determine the mode best suited to your installation and set the Trigger Mode switch accordingly. We know this part can be a little triggering, so refer to the table below for support.

Setting	Mode	Function
Rmt In	Remote In	Defeat all signal sensing and relies on an external +12V remote input signal.
GTO™	Great Turn-On DC Offset Sensing	Turns the unit on and off by detecting the presence of DC offset in most OEM signals.
Audio	Audio Signal Sensing	Turns the unit on and off by detecting the presence of audio signal from an OEM or after market source.

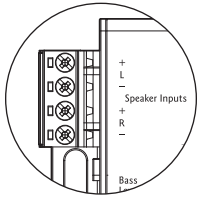
Signal Connections

Never connect signal to both the line-level and speaker-level inputs. Select the appropriate input for your installation and leave the other input to contemplate its plans for world domination.

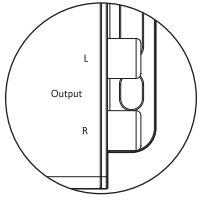
Line-level Inputs – For most after market head units and sources, you will be connecting your audio signal to the line-level inputs (RCAs) of The Epicenter Micro PRO. Use quality RCA interconnects and keep signal wires away from power wires as much as possible.



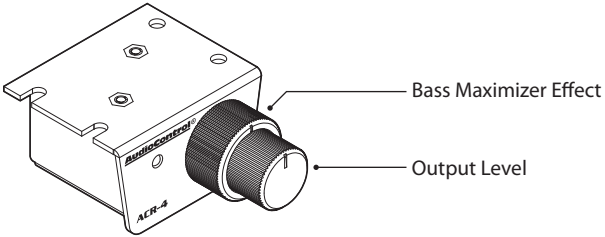
Speaker-level Inputs – For OEM upgrades and integrations, you will likely be using the speaker-level inputs (terminal block) of The Epicenter Micro PRO. These inputs can handle up to 40 volts which will easily manage signal from even the most powerful OEM premium sound systems and amplifiers. Be mindful here of maintaining signal polarity (plus to plus, minus to minus).



Line-level Outputs – The Epicenter Micro has some line-level outputs (RCAs) that serve no purpose if not connected to your amplifier using high-quality RCA interconnects.



Installing the ACR- 4 Remote Level Control

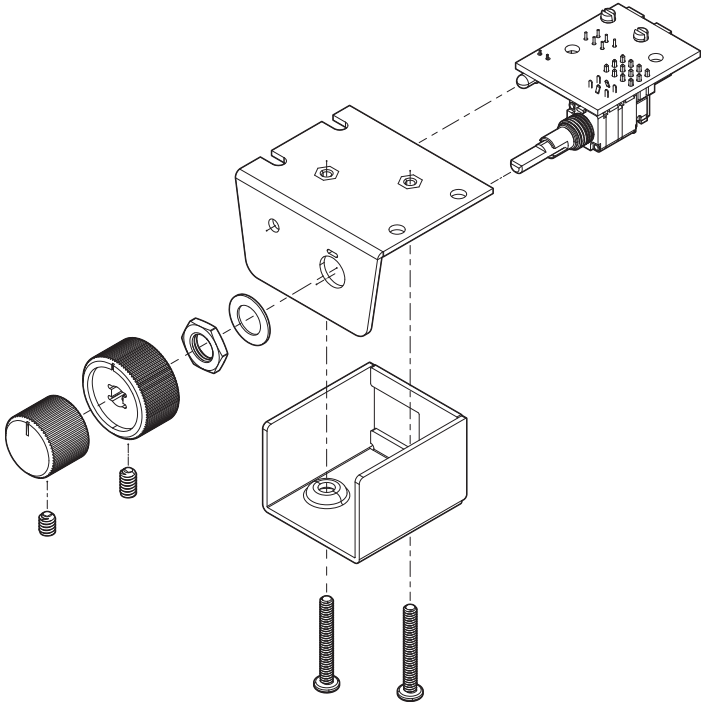


Placement and Mounting – The ACR-4 may be mounted using its own bracket or through a custom hole in a dash or console. It should be within reach of the driver and in a spot where the LED is plainly visible. Use the included cable to connect the ACR-4 to the Bass Level Control input jack on The Epicenter Micro PRO.

Bracket Installation – The ACR-4 mounts with four screws which attach to the underside of a dashboard or console. Slide under the dash or console and place the ACR-4 in its mounting position. Mark the four mounting holes, drill pilot holes, and secure with four screws.

Custom Installation – Remove the two knob 1.5 mm set screws (hex wrench is included) and knobs. Remove the two phillips screws securing the enclosure to the bracket and remove the enclosure. Loosen and remove the 10 mm nut and washer securing the potentiometer to the bracket. Remove the circuit board assembly (potentiometer, LED, phone jack) from the bracket.

Drill a 9/32" hole for the potentiometer along with a 1/8" hole for the lock tab, and a 1/8" hole for the LED. Reassemble the components onto the holes. And now you have a custom-mounted ACR-4.



Maximum Output Voltage

The Epicenter is the most powerful bass component in the history of mobile audio; able to shake tall buildings with a single note, turn body panels to liquid, and confuse the USGS. With that in mind we have equipped The Epicenter Micro PRO with multiple Maximum Output Voltage options. This setting will aid in setting the output voltage so it doesn't overwhelm your amplifier or create unwanted distortion.

The default setting of 5 volts will work with most common amplifiers. If you should need to change this setting, refer to the chart below for general guidance.

Setting	Amplifier Input Voltage Rating
5 Volt	5 Volts or less
7.5 Volt	7.5 Volts or less
10 Volt	Do they make those?

Consult your amplifier's owners manual/specifications to find out what your amp's input voltage rating is.

PFM Subsonic Filter

AudioControl strongly recommends leaving the PFM switch set to 24 Hz. You have been warned!

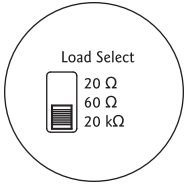
Many car audio systems truly push the limits of the subwoofer without really knowing it. Tuned and or ported enclosures affect the roll-off of many speakers, yet lots of source material forces the speakers to play lower than expected. The net result is wasted amplifier power and damaged speakers.

The AudioControl PFM Subsonic Filter is set to 24 Hz by default which prevents the subwoofer from reproducing frequencies below 24 Hz, low (subsonic) frequencies most subs are not designed to reproduce reliably.

Depending on your installation, you may want not want to limit these lower frequencies to downstream devices like a DSP, analog EQ, or amplifiers. In other cases you may want to send lower frequencies (i.e., 15 Hz) to subwoofers designed to handle them.

Before selecting 15 Hz, or (gasp!) Bypass, it is best to understand what will be required of your subwoofers and amplifiers to reproduce subsonic bass. Save yourself some anguish and look up some info on reproducing frequencies at 20 Hz and below. Your subwoofers (and your wallet) will thank you.

Load Select (Load Matching)



The Load Select switch applies to Speaker Level inputs only. The Epicenter Micro PRO's default 20 kΩ input setting is designed to present NO load to the output of OEM systems, which can make OEM amplifiers in some vehicles upset or stop passing audio. The lower impedance options of the Load Select feature effectively present a false speaker load to the OEM amplifier so it will operate as intended.

Setting	Application
20 Ω	Best suited for late model vehicles equipped with an OEM base sound system (**no separate OEM amplifier**).
60 Ω	Best suited for late model vehicles equipped with a separately amplified OEM "premium" sound system.
20 kΩ	Best suited for all other applications.

Setting Gains

The following procedures will ensure you extract the cleanest signal from your source and deliver the purest, bass-enhanced signal with the highest possible dynamic range straight to your amplifier.

Set Initial Gain and Level Settings as follows (ACR must be connected) –

- Input Gain: Minimum
- Output Gain: 12 o'clock (center detent)
- ACR-4 Output Level (inner knob): maximum
- ACR-4 Bass Maximizer effect (outer knob): 50%

1. **Set Maximum Output Voltage** – *Before you do anything else - do this!* Set the Maximum Output Voltage based on the maximum input voltage of your amplifier. *Refer to the "Maximum Output Voltage" section on page 12.*
2. **Set the PFM Subsonic Filter** – We recommend leaving this switch set to 24 Hz. Refer *to the "PFM Subsonic Filter" section on page 12.*
3. **Set Input Gain** –
   - Set the source to its maximum, undistorted volume.
   - Play a bass-heavy music track you're familiar with through the source.
   - Increase the Input Gain until the Max light just begins to flicker.

   If you do not have an oscilloscope to determine the maximum undistorted volume from your source, set the source volume to 75%.
4. **Set ParaBASS** – Play some music and set the ParaBASS controls to your taste. *Refer to the "Adjusting ParaBASS Controls" section on page 14.*
5. **Set Output Gain** – With the source set to maximum undistorted volume, play the same bass-heavy music track as before. Increase the Output Gain until the Max light just begins to flicker.

Adjusting ParaBASS® Controls

Because of variations in the recording process, streaming algorithms and compression technologies, we developed The Epicenter® circuit to help restore low frequencies lost in music during production or distribution.

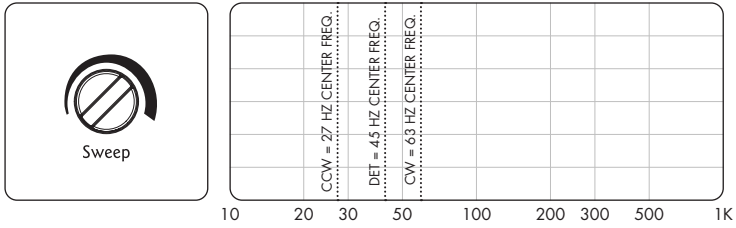
Beyond the quality of the music source and ability of The Epicenter Micro PRO to maximize and restore bass, overall bass response in a system is profoundly affected by the acoustics of various environments, speaker location, and the speakers themselves.

With this in mind, our coffee-laden engineers developed the unique ParaBASS® system. Use these fantastic quasi-parametric parameters to tune the Bass Maximizer effect to your liking.

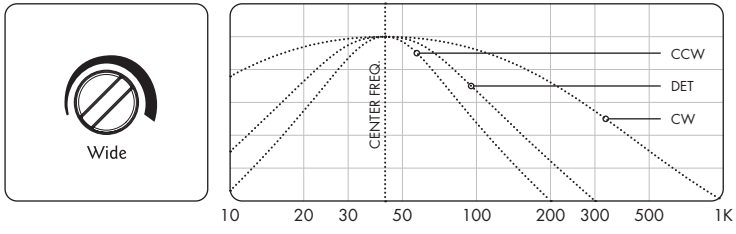
For a tuned, ported enclosure, you might use the Sweep control to emphasize the tuning frequency of the enclosure, using the Wide knob to keep the filter shape narrow around this frequency.

For a more natural bass, you might fully widen the filter (Wide) and center the frequency (Sweep) around 50 Hz to 60 Hz.

*The important thing to remember here is that **there is no right answer**! This is your opportunity to really listen to your music and dial in your own best experience.*



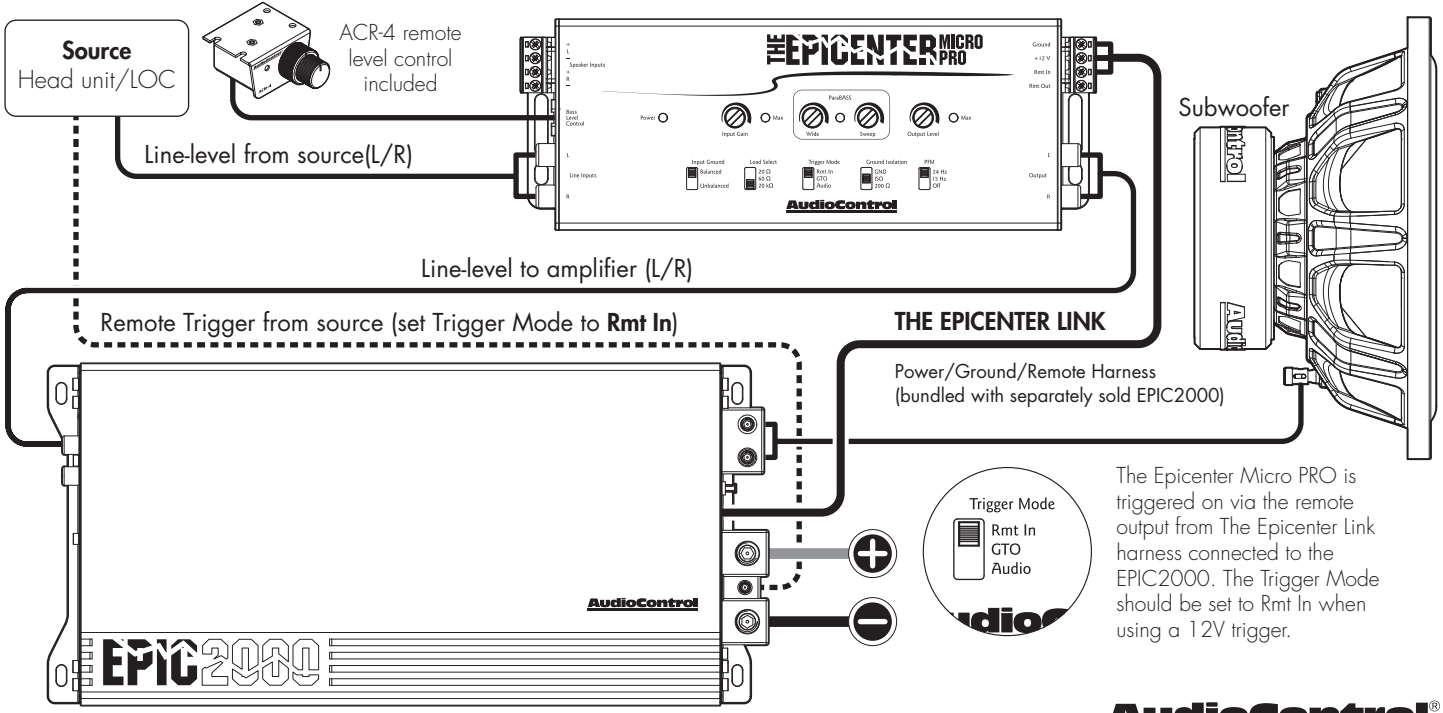
The **Sweep** control allows you to select a center frequency (the frequency most affected) between 27 Hz (min) and 63 Hz (max).



The **Wide** control allows you to control the shape of the filter centered around the Sweep frequency. CW widens the filter and CCW narrows the filter.

Bass Enhancement for Aftermarket Systems

Adding The Epicenter Micro PRO to an aftermarket system. Featuring the EPIC2000 monoblock amplifier and The Epicenter Link harness for plug and play wiring.

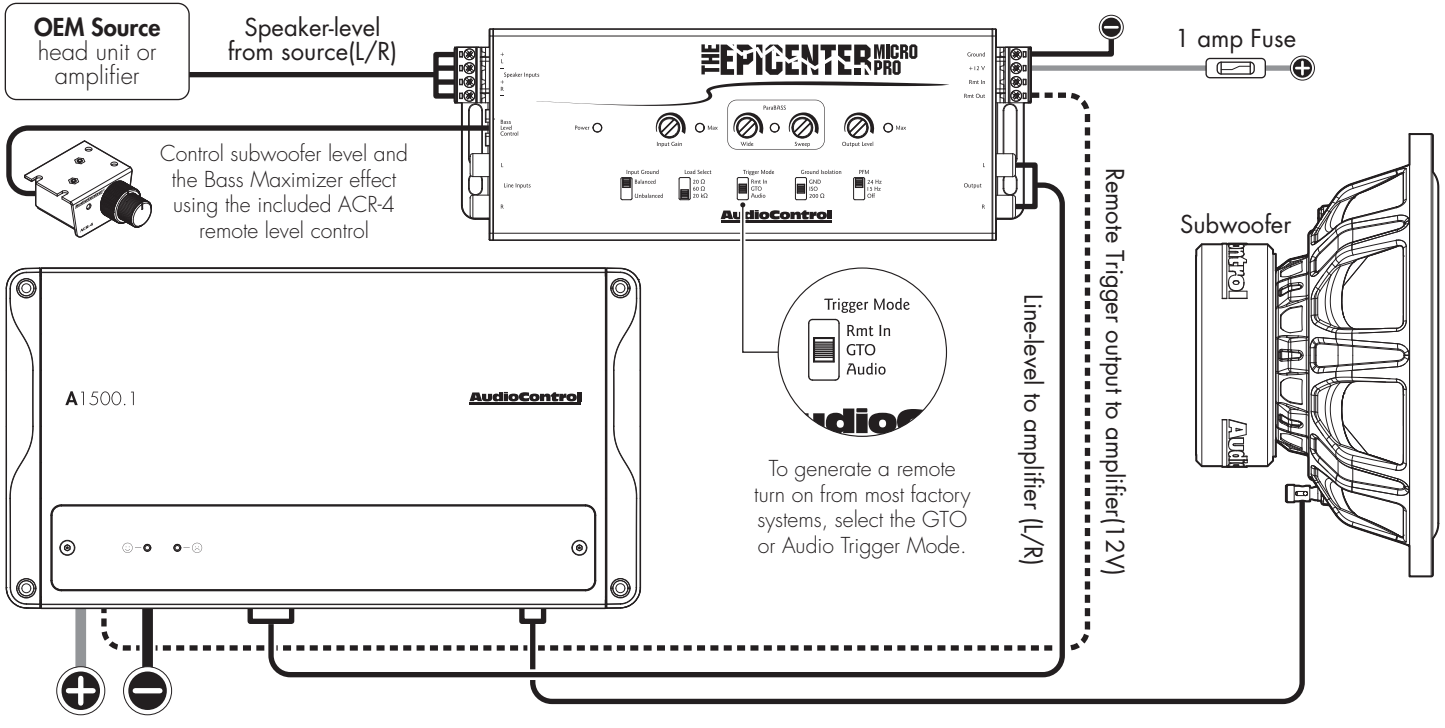


The Epicenter Micro PRO is triggered on via the remote output from The Epicenter Link harness connected to the EPIC2000. The Trigger Mode should be set to Rmt In when using a 12V trigger.

AudioControl®
Making Good Sound Great™

Bass Enhancement for Factory Systems

Adding The Epicenter Micro PRO to an OEM system. Easily generate a remote turn on from most factory systems using the GTO or Audio Trigger Mode.



Troubleshooting

No power – If the LED on the ACR-4 is not on, check the Power light on the chassis of The Epicenter Micro PRO. If the Power light is on, you will want to check to make sure that the cable connecting the remote to the chassis is not pinched or disconnected. If the Power light is off check to make sure that the power wire and remote turn on wires are connected and a fuse has not blown.

No Bass Maximizer effect – When your system is playing and yet you don't hear any difference in the sound, try turning the outer knob clockwise. If you still don't hear any effect, verify that you have The Epicenter Micro PRO located correctly in the signal chain. It must be installed BEFORE any crossovers in the system. ***Note: If you are using a source unit with a built in crossover or processor, you must run a full-range output signal (or as close to full range as possible) to The Epicenter Micro PRO's inputs.*** Also, check that the ACR-4 cable is plugged in all the way.

Sounds distorted – Should your system sound distorted or your speakers are moving way too much, you should decrease the amount of bass restoration by turning the outer knob of the ACR-4 counter-clockwise. If you've bypassed the PFM, you should probably re-engage it or consider lowering the Maximum Output Voltage. ***This could also be an indication that The Epicenter Micro PRO is not receiving a full-range signal.***

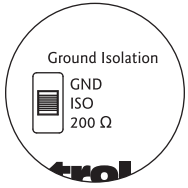
Still distorted – Adjust the ParaBASS controls by turning the sweep control clockwise to raise the center frequency.

If none of these measures work to reduce distortion, you might be trying to play a song that already has ample bass (most modern music). The Epicenter Micro PRO thinks its bass is better and won't back down. You have to be the parent here and turn that Bass Maximizer effect all the way down.

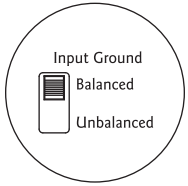
My alternator is whining – This is an age-old problem encountered by car audio enthusiasts and professional installers the world over — that dreaded sound of the vehicle alternator spooling up through our sparkling new amplifiers and speakers as we speed off to cruise the beachfront boulevard. We could, of course, write a fairly daunting discourse on the subject of proper grounding practices, wire management, and vehicle alloy metallurgy. But, we won't.

Make sure The Epicenter Micro PRO is powered off before changing the Ground Isolation setting.

Ground Isolation – If you do encounter ground-related noise in your system, try the other two modes available on the Ground Isolation switch: GND (Ground) or 200 Ω. In some cases, you can eliminate unwanted noise by switching to one of these alternate grounding schemes.



Input Ground – By default, the inputs are set to a balanced-differential configuration. While this works well in most cases, in less common cases, noise can result. Try the Unbalanced mode if you are encountering noise you cannot mitigate with the usual methods of establishing a good ground.



The Warranty

In just the same way as walking into a room and seeing a big hairy spider on the wall, people are scared of warranties. Lots of fine print. Months of waiting around. Well, fear no more. This warranty is designed to make you rave about AudioControl. It's a warranty that looks out for you and your client, plus helps you resist the temptation to have your friend Sparky, who's "good with electronics," try to repair your AudioControl product. So go ahead, read this warranty, then register the information at www.audiocontrol.com/product-registration and include your comments.

Our warranty has conditional conditions! "Conditional" doesn't mean anything ominous. The Federal Trade Commission tells all manufacturers to use the term to indicate that certain conditions have to be met before they'll honor the warranty. If you meet all of these conditions, AudioControl will, at its discretion, repair or replace any AudioControl products that exhibit defects in materials and/or workmanship for one (1) year from the original date you bought it. We will repair or replace it, at our option, during that time.

Here are the conditional conditions:

1. You must fully register your purchase within 15 days of the purchase date by going to the AudioControl product registration page at:

   www.audiocontrol.com/product-registration

   Failure to register your product will negate the warranty.

2. You need to hold on to your sales receipt! All warranty service requires original sales receipt documentation. The warranty only applies to the original purchaser from an authorized AudioControl dealer.

   Note: Products purchased from unauthorized dealers are not covered under warranty.

3. Our warranty covers AudioControl products that have been installed according to the instructions in this manual.

4. You cannot let anyone who isn't: (A) the AudioControl factory; or someone authorized in writing by AudioControl, service your AudioControl product. If anyone other than (A), or (B) messes with your AudioControl product, the warranty is void.

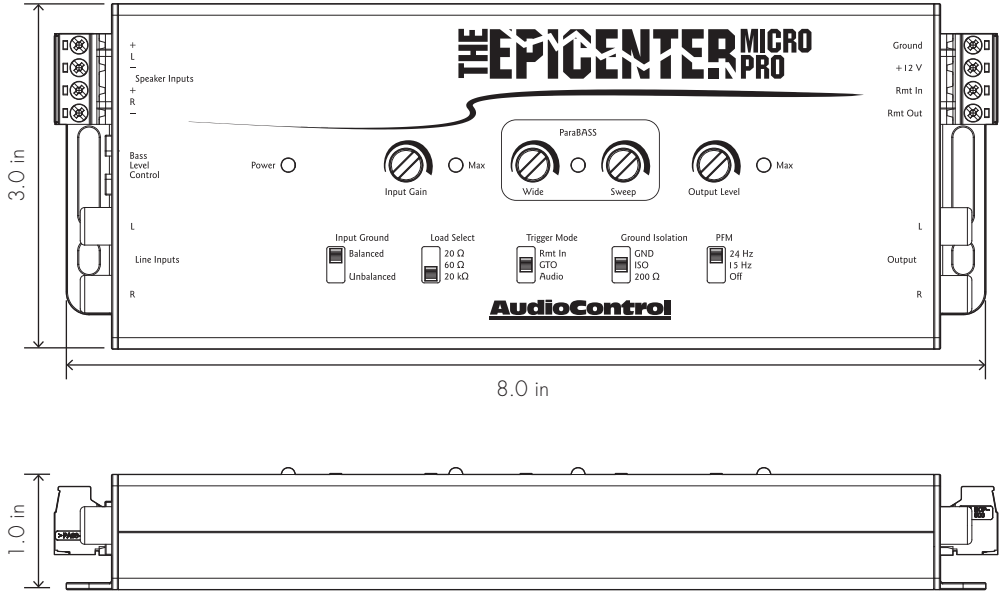
5. The warranty is void if the serial number is altered, defaced or removed, or if your product has been used improperly. Now that may sound like a big loophole, but here is what we mean by this: Unwarranted abuse is: (A) physical damage (don't use your product to pound in fence posts); (B) improper connections (120 volts into the power terminals can fry the poor thing). This is the best product we know how to build, but for example, if you mount it to the front bumper of your car, drop it over Niagara Falls, or use it for anchoring your boat, something will go wrong.

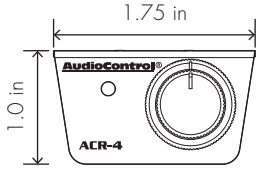
Assuming you conform to 1 through 5, and it really isn't all that hard to do, we get the option of fixing your product, or replacing it with a new one, at our discretion.

In the event that your product is out of warranty or not covered under our warranty, you may request to have any damage repaired at our normal "Out of Warranty" repair cost.

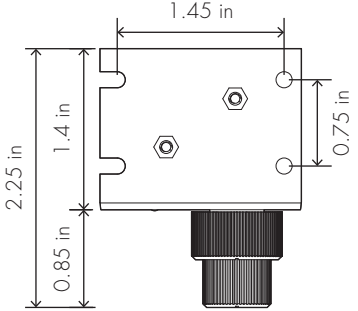
Dimensions

The Epicenter Micro PRO





ACR-4



Specifications

All specifications are measured at 14.4 VDC (standard automotive voltage). As technology advances, AudioControl reserves the right to continuously change our specifications, like our Pacific Northwest weather, although we are working on a surround-sound umbrella as well.

Inputs

Maximum Input level (line-level RCA)	10 Vrms
Maximum Input level (speaker-level)	40V/400W (20 kΩ setting)
Input Impedance Line Level	7 kΩ
Input Impedance Speaker Level	Selectable 20 Ω, 60 Ω, 20 kΩ

Outputs

Maximum Output Level (THD <1%)	9 Vrms, 13 V Peak
Output Impedance	150 Ω

Performance

THD	0.03%
Frequency Response	10 Hz to 22 kHz, +/- 1 dB
Signal to Noise Ratio	>105 dB
PFM Filter (High Pass)	Selectable 24 Hz, 15 Hz, or Bypass

General

Power Supply	High Headroom PWM Switching
Current Draw	300 mA
Recommended Fuse	1 A
Dimensions (without power/speaker connectors)	8″W x 3″D x 1″H
Weight	0.90 lbs.

For more information about this fine product, and for technical questions, additional details of the limited warranty, and repair services, please visit www.audiocontrol.com

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As Technology advances, AudioControl reserves the right to continuously change our specifications.

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