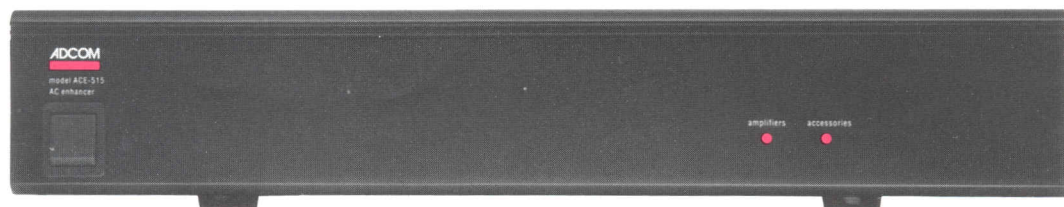


# The Adcom ACE-515 AC Enhancer



**Y**ou've probably invested a lot of time and money putting together your stereo system. Adding a video theater and computer equipment is becoming more and more common. So obtaining the best performance, electrical protection, and reliability from all this valuable gear is more than an option, it's a necessity. But, regardless of how sophisticated the design of your electronic equipment is, it may not be performing to full potential if it's plugged directly into an ordinary AC outlet.

Standard AC outlets often supply raw and unprocessed power that not only can diminish the clarity of audio signals and reduce the resolution of your video picture, but it can also cause damage to the sensitive Integrated Circuits (ICs) inside your valuable equipment. ADCOM's ACE-515 AC Enhancer continuously avoids many of the problems caused by unreliable AC

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**ADCOM's ACE-515 AC Enhancer can prevent problems by filtering the raw AC power before it ever reaches your equipment.**

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power supplies by filtering and conditioning the AC power, and eliminating "spikes" injected into the line by refrigerators, air conditioners, heating systems, atmospheric disturbances, etc. A little-publicized fact is that many industrial centers, because of the machinery they use, inject a large number of "spikes" and other interference into the power lines. Similarly, radio transmitters can "pollute" power lines with

interference. These disturbances can be carried by power lines over very long distances and can affect AC outlets miles away. ADCOM's ACE-515 will provide, even if these disruptive signals are present at your AC outlet, both superior performance and additional protection for all the sensitive electronic equipment connected to it (up to 1800 watts total).

### PERFORMANCE

The ACE-515 can not only protect but actually improve the performance capabilities of your audio and video systems. As it filters the line voltage from your AC receptacle, eliminating noise and interference, such as radio frequency interference (RFI) and

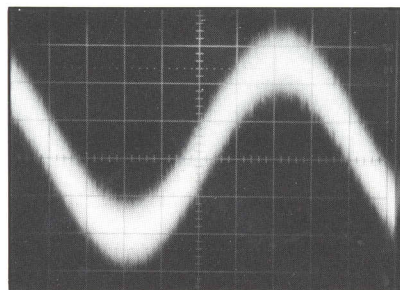
electromagnetic interference (EMI), it will reduce the residual noise in the system, enhancing both audio and video clarity. Simply stated, the ACE-515 provides your electronics with the purest input power so it can deliver its purest performance.

### PROTECTION

ADCOM has also designed the ACE-515 to protect your electronic equipment from potentially damaging high-voltage spikes and surges. The spike and surge protection built into its circuits is fast acting (less than 10 billionths of a second), and thorough (works on both sides of the AC line, and to Ground as well).

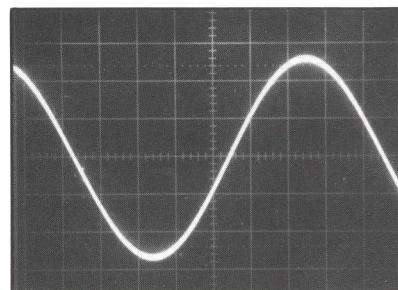
For use with your audio system,

## Before ACE-515:



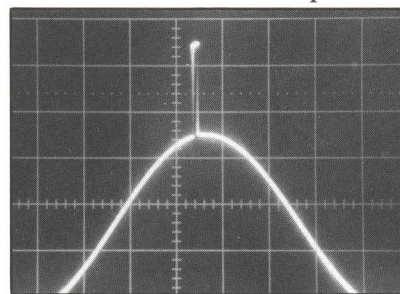
Line hash

## After ACE-515:

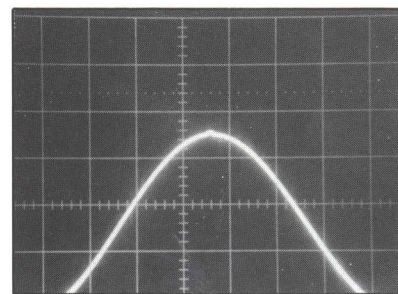


ACE-515 significantly reduces hash.

Close-up view of 60Hz sine waves



High-voltage spike



ACE-515 virtually eliminates spike.



the AC Enhancer is supplied with a special sequential turn-on/turn-off circuit (easily defeatable by your ADCOM dealer if necessary) designed to protect your speakers from turn-on/turn-off “thumps” which originate in one or more accessories and could otherwise be amplified to disturbing levels. The sequence was designed so that when you initiate the turn-on cycle, the ACE-515 will energize the accessories immediately and delay power to your amplifier(s) for 10 seconds—until the circuits in your accessories have stabilized. Only then will the amplifiers be turned on; so the thump often heard through the speakers while circuits are stabilizing will not be amplified. Similarly, when you initiate the turn-off sequence, the ACE-515 will remove AC

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“Line protection—you can pay a little for it now, or you can pay a lot for it later.”

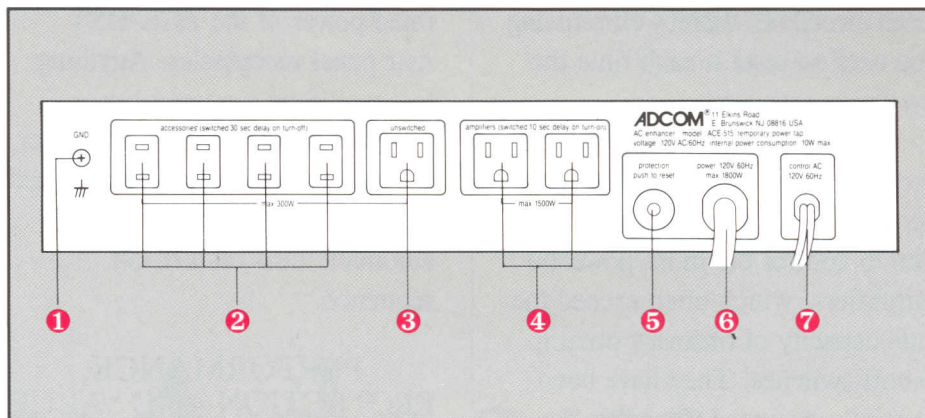
Ken Pohlmann, *AUDIO*,  
November 1987.

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power from the amplifier at once and hold the accessory power on for 30 seconds—until the power amplifier has completely discharged. This on/off process automatically provides your system components with power in the safest possible sequence and eliminates the need to do all this manually. And this sequencing can be advantageous when you’re powering a video theater or computer system as well.

### A CLOSER LOOK

Connecting the ACE-515 into your system is as simple as attaching the electrical cords.



Look at the diagram of the rear panel and you’ll see how easy it is to hook up a variety of components. No special skills or tools are required. And the considerable benefits are yours immediately.

#### ① **GND** (grounding screw).

This terminal provides easy access to a good ground connection for systems which do not have 3-prong grounding AC plugs on any of their connecting AC cords. Connecting this screw to the Ground terminal of one of your components, usually your preamp, will ground the system and minimize “hum.”

#### ② **Accessories.** Four polarized AC receptacles, controlled by the automatic on/off sequence, will accept your accessory components such as a CD player, cassette recorder, TV, surround sound decoder, tuner, or computer equipment, etc. These receptacles provide your accessories with filtered and purified AC power. Whenever these receptacles are energized, the LED on the front panel, marked ACCESSORIES will light.

The ACE-515 increases the flexibility of your system by multiplying the number of outlets available and permitting you to control their on/off sequence appropriately.

#### ③ **Unswitched.** This continuously energized 3-prong receptacle is not controlled by either the turn-on or turn-off sequence, the ACE-515 power switch on its front panel or the CONTROL AC

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ADCOM’s ACE-515 gives your system the purest input power, so it can deliver the purest performance possible.

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power cord. The power from this outlet is, however, enhanced and purified. You can plug your preamp into this receptacle and use the preamp on/off switch to control the turn-on/turn-off sequence of your entire system. Or you may power through this outlet a remotely controlled component via which the turn-on/turn-off sequence can be triggered with the remote control. Simply plug your preamp or remote control component into the UNSWITCHED receptacle and plug the CONTROL AC cord into any switched outlet on the rear of the controlling component.

The continuous power available at the UNSWITCHED receptacle makes it ideal to plug in video equipment, since the VCR’s clock will always be powered even when the rest of the system has



been turned off, thereby eliminating the need to reset it each time the system is activated.

**4 Amplifiers.** Two 3-prong receptacles controlled by the turn-on/turn-off sequence enable you to control the more powerful amplifiers, which often exceed the safe capacity of ordinary preamp on/off switches. They have been specially designed to handle the heavy inrush current demands created by such components. These receptacles also provide filtered and purified AC power, plus the convenient automatic turn-on/turn-off sequence. Whenever these receptacles are energized, the LED on the front panel labelled AMPLIFIERS will light.

**5 Protection.** A special resettable circuit breaker which requires no component replacement. In the event of temporary overload, a simple push of the reset button will restore normal operation.

**6 Power.** A heavy-duty, 3-conductor, 14-AWG power cord is large enough to supply the

rated power of the ACE-515's rear panel receptacles. Anything less would be a compromise.

**7 Control AC.** A 2-conductor, 18 AWG cord with molded polarized 2-prong AC plug initiates the automatic turn-on/turn-off sequence.

### PERFORMANCE, PROTECTION AND VALUE

Only the ADCOM ACE-515 AC power enhancer has all of these important features:

- High power-handling capability (up to 1800 W total).
- Surge, spike, RFI and EMI filtering.
- Correct, sequential turn-on and turn-off of your equipment.
- All heavy duty electrical and structural components, outlets, power cord, etc. Massive anodized aluminum front panel, heavy gauge steel chassis.
- Safety Certification: ETL listed, and approved under UL Standard Number 498.

In today's world of sophisticated electronic equipment, the ADCOM ACE-515 is more than an accessory . . . it's a necessity.

### WHAT THE CRITICS SAY:

Ken Pohlmann writing in *AUDIO*, November 1987, said: "I confess: I'm a guy who rides large displacement motorcycles too fast for complete control. And yet I'm pretty careful when it comes to electronic equipment. Maybe it's because it seems so helpless when it expires suddenly at the cruel hands of fate. At any rate, electronic equipment (particularly digital audio gear) is vulnerable to both annoying and catastrophic power-line problems. Even if you don't have any respect for your own mortality, your stereo gear should have line spike and surge protection, with hash filters thrown in too."

Lewis Lipnick, writing about the ADCOM ACE-515 in *Stereophile*, Vol. 11 #4 April 1988, said:

"The immediate sense of improved clarity and focus when used alone with the Rowland Research Model Five amplifier was nothing short of remarkable. The Rowland Research Coherence One preamplifier, on the other hand, didn't seem to be greatly affected by the presence of the ACE-515 (the Coherence One, according to Jeff Rowland, already has an AC-filtering device built in)."

"... the effective suppression of AC 'RF Hash' by the ACE-515 improved clarity and lowered noise levels in all three (CD) players."

"Musically, the ACE-515 represents much better value than the price tag would suggest . . . the significant improvements in instrumental and vocal harmonic retrieval and hall ambience are superb. I am now more aware of the spatial relationships between individual performers, as well as the placement of the ensemble or soloist in different recording venues. The ACE-515 does not ameliorate the 'nasties' common to many overly processed digital recordings, nor does it alter the overall tonal or harmonic quality of the connected audio component(s). Rather it simply appears to allow musical information to be passed through to the listener with less veil and electronic 'haze'."

## SPECIFICATIONS

<u>Electrical</u>	<u>Filter</u>	<u>Mechanical</u>
<p><b>Input Power:</b> 120VAC, <math>\pm 20\%</math>, 50/60Hz</p> <p><b>Protection:</b> 15A circuit breaker</p> <p><b>Internal Power Consumption:</b> Less than 10W</p> <p><b>Control Input:</b> 120VAC, <math>\pm 20\%</math>, 50/60Hz, fused @ 1 Amp</p> <p><b>Output:</b> Amplifiers, 10 Amps maximum per pole continuous Accessories, 2.5 Amps maximum continuous</p> <p><b>Time Delays:</b> Delay-on-make 10 seconds <math>\pm 20\%</math>, Delay-on-break 30 seconds <math>\pm 20\%</math></p> <p><b>Environmental:</b> Operating temperature, 0° C to +50° C, Storage temperature, -40° C to +80° C</p>	<p>Filter provides reduction of both Transverse and Common Mode noise, interference and spikes (voltage transients).</p> <p><b>Noise:</b> Begins attenuation above 10kHz, down 40dB @ 150kHz</p> <p><b>Maximum Continuous AC RMS Voltage:</b> 130</p> <p><b>Maximum Continuous DC Voltage:</b> 175</p> <p><b>Transient Energy Dissipation:</b> 11 Joules (10/1000<math>\mu</math>S)</p> <p><b>Peak Current:</b> 1200A</p> <p><b>Response Time:</b> Less than 10 nanoseconds</p> <p><b>Maximum Clamping Voltage:</b> 390 at 10A (8/20<math>\mu</math>S)</p>	<p><b>Dimensions:</b> 17" W (432mm) <math>\times</math> 5-15/16" D (150mm) <math>\times</math> 3" H (76mm)</p> <p><b>Maximum Dimensions:</b> 17" W (432mm) <math>\times</math> 6-3/4" D (171mm) <math>\times</math> 3-3/16" H (81mm)</p> <p><b>Weight:</b> 6 lbs. (2.7kg)</p> <p><b>Main AC Cord:</b> 6 ft. (1.8m)</p> <p><b>Control AC Cord:</b> 6 ft. (1.8m)</p> <p><b>Outlets:</b> Three, 3-prong, grounded, polarized; Four, 2-prong, polarized; Seven, total</p>

Also available with optional white front panel.

**ADCOM**<sup>®</sup>  
fine stereo components

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