

**BAG END** SELF-POWERED**P-TA5000-I TIME-ALIGN®**

S P E C I F I C A T I O N S

**SYSTEM COMPONENTS****Enclosure:**

18 mm 13-ply birch plywood

**Low Frequency Transducer:**15" Cone  
2.5" Voice coil  
80 oz. Magnet**High Frequency Transducer:**1" Exit compression driver  
1.25" Titanium diaphragm  
24 oz. Magnet  
Exponential horn**Internal Amplification:**

1 - Minima One

**Grille:**16 Gauge black vinyl  
coated perforated steel**Optional Hardware:**

Rigging points

**ACOUSTIC AND ELECTRICAL****System type:**2-way vented 3.4 ft<sup>3</sup>**Input:**10k  $\Omega$  Balanced XLR inputs  
with loop through**Input CAL Sensitivity:** +4 dBu**System Power:**

500 W continuous

**Frequency Response:**50 Hz to 19 kHz  $\pm 3$  dB  
(4 $\pi$  Steradians)**Hi Pass Filter Frequency****Switchable:**

-6dB @ 8 Hz, @ 50 Hz, @ 95 Hz

**Dispersion:**90° Horizontal (-6 dB)  
40° Vertical (-6 dB)**Crossover Network:**Passive Time-Align® equalizer  
type at 1.7 kHz**Time Offset Between Drivers:**<  $\pm 25$  Microseconds**Maximum Acoustic Output:**Half Space @ 1 Meter  
127 dB SPL**LED Indicators:**Green, On  
Yellow, System Limit  
Red, System Fault or Sleep Mode**AC Power Requirements:**88 Volts Minimum  
270 Volts Maximum**PHYSICAL****Standard Finish:**

Black textured finish

**Dimensions:**27" h x 22" w x 18" d  
69 cm x 56 cm x 46 cm  
Trapezoidal, 8° taper per side**Weight:** 80 lbs., 36 kg**Shipping Dimensions:**21" x 30" x 25"  
54 cm x 76 cm x 64 cm**Shipping Weight:** 88 lbs., 40 kg**APPLICATIONS:****Auditorium Sound Reinforcement****Church Sound Reinforcement****Film and Video Post Production****Nightclub Installations**

**MINIMA ONE SELF-POWERED** The P-TA5000-I is a permanent installation full range self-powered loudspeaker system offering both high fidelity and high efficiency. The Time-Aligned™ studio quality sound provides detail and clarity not found in other designs. Rugged birch plywood finished with our beautiful utility black textured finish and a black steel grille will fit nicely into almost any application. Optional flying attachment points allow for safe and convenient rigging.

**OPTIONAL CUSTOM FINISHES** Available in textured white paint or ready-to-stain natural birch for greater versatility in location and aesthetics. Also available in outdoor weather resistant package.

**ABOUT TIME-ALIGN®** Time-Align® assures that the fundamental and overtones of a complex, transient, acoustical signal are presented to the listener in the same relationship as the electrical signal at the input terminals of the loudspeaker.

The conventional loudspeaker spreads out the sound in time: when a rapid series of transients occur the results are blurring and lost detail. With Time-Align®, a transient is presented as a tight package of energy, with the same time relationships as the natural sound. This means that a rapid series of transients will be heard clearly.

True Time-Alignment™ requires much more than just physically lining up the loudspeaker components. It requires consideration of the driver placement, driver delay and adjustment of the crossover delay parameters. This achieves the precise simultaneous acoustical arrival time of each driver throughout the crossover region.

Along with state-of-the-art laboratory instruments, the proprietary Time-Align® generator, built by Ron Wickersham, is used in designing our loudspeaker systems. The Time-Align® generator is founded upon different underlying principles than are used in the more common Fourier based measurement equipment.

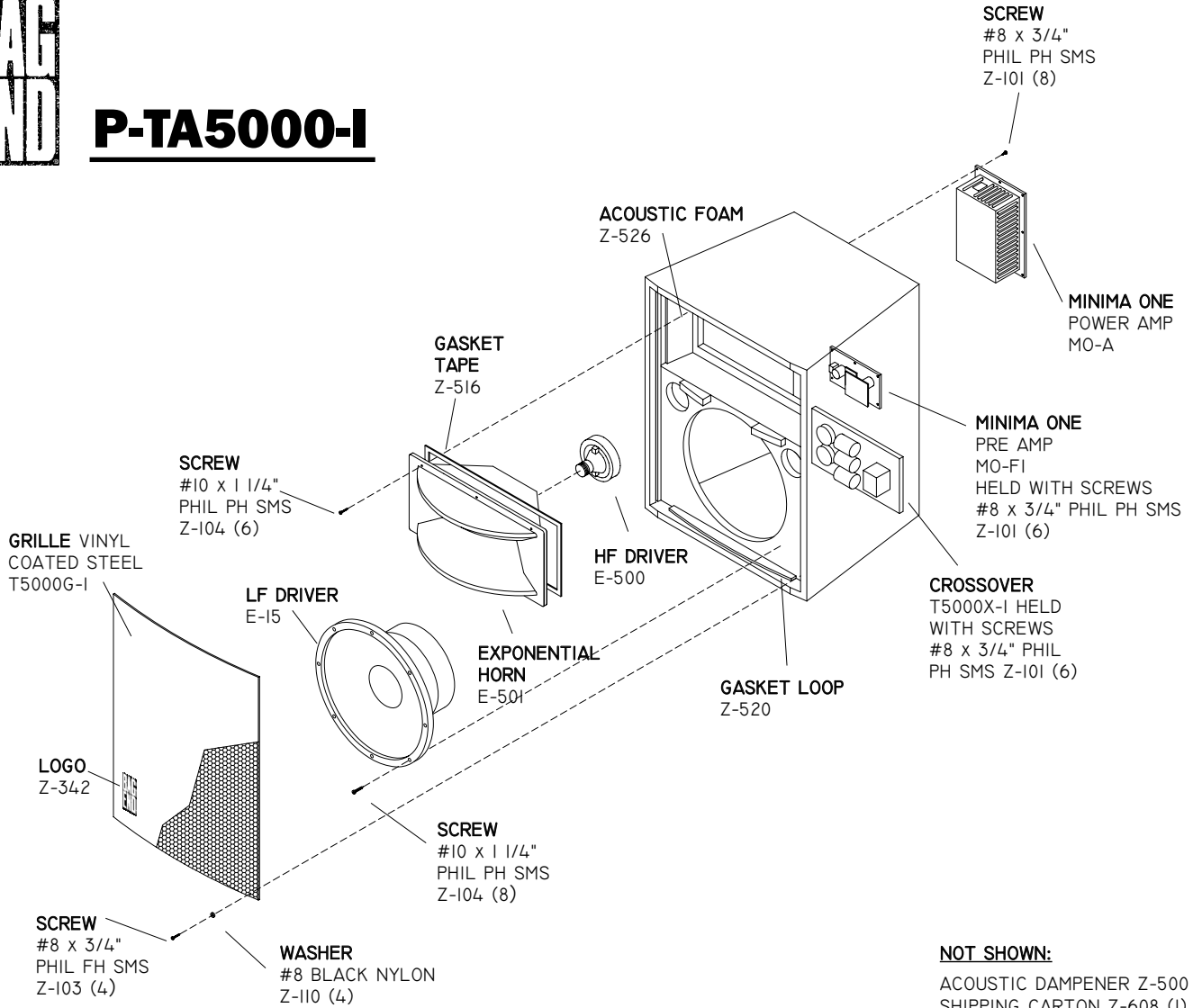
When comparing a genuine BAG END Time-Aligned™ speaker system to any other, our additional design work is easy to hear and appreciate. The dramatic clarity, realism, and overall pleasant sound of our Time-Aligned™ loudspeakers is noted throughout the world.

**BAG END Loudspeakers**  
22N272 Pepper Road  
Lake Barrington, Illinois  
60010 USA  
Voice 847 382 4550  
Fax 847 382 4551  
www.bagend.com





# P-TA5000-I



**NOT SHOWN:**

- ACOUSTIC DAMPENER Z-500 (7.5)
- SHIPPING CARTON Z-608 (1)
- PLASTIC BAG Z-627 (1)
- CORNER GUARD Z-629 (4)
- EDGE GUARD Z-630 (14)

**Modular Sound Systems**  
Barrington, Illinois USA

In Thru

Level

Apply 12 V DC  
to mute

88-270 VAC  
1200 W max draw

US Patents 5,278,490 and 6,084,450

**ABOUT MINIMA ONE AMPLIFIER**

**TECHNOLOGY** The Minima One amplifier is both a hi fidelity and a high efficiency amplifier. More than 80% efficient the Minima One provides more power to the loudspeakers and creates less heat in the amplifier. In real world applications there is practically no heat emitted from the amplifier and thus requires no cooling fan. Incorporating patented technology the comparison circuit of the Minima One corrects every single cycle to drive error to zero at the end of each cycle. On average every 4 microseconds the one cycle modulator transforms and amplifies the input signal into the ideal natural pulse width modulation. Switching at 250KHz with the single cycle error correction insures extremely low distortion and high reliability.

The power factor corrected AC power input automatically and continuously adapts to any voltage between 88 and 270 volts. The Minima One is convenient to power and stable to use on any power grid in the world.