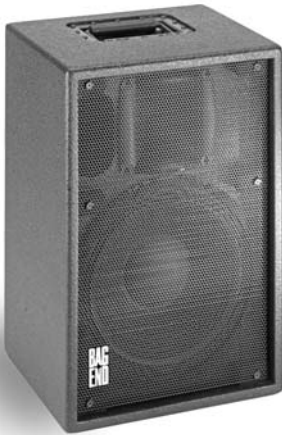


# BAG END SELF-POWERED

PORTABLE SERIES

PTA1200-R TIME-ALIGN®

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



## SYSTEM COMPONENTS

### Enclosure:

18mm 13-ply birch plywood

### Low Frequency Transducer:

12" Cone  
2.5" Voice coil  
80 oz. Magnet

### High Frequency Transducer:

1" Exit compression driver  
1.8" Titanium diaphragm  
15 oz. Magnet  
Radial horn

### Internal Amplification:

1 - Minima One

### Grille:

16 Gauge black vinyl coated perforated steel

### Standard Hardware:

1 - Recessed handle  
1 - 35 mm Stand adapter

## ACOUSTIC AND ELECTRICAL

**System Type:** 2-way vented 2 ft<sup>3</sup>

**Input:** 48k  $\Omega$  Balanced XLR inputs with loop through

**Input CAL Sensitivity:** +4 dBu

### System Power:

500 W w/system limiter

### Frequency Response:

75 Hz to 20 kHz  $\pm 3$  dB  
( $4\pi$  Steradians)

### Hi Pass Filter Frequency Switchable:

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

### Dispersion:

80° Horizontal (-6 dB)  
60° Vertical (-6 dB)  
(Horn may be rotated 90° for a 60° H x 80° V dispersion)

### Crossover Network:

Passive Time-Align® equalizer type at 2.5 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  
Auto Sensing

## PHYSICAL

**Finish:** Black Rotex

### Dimensions:

21" h x 14" w x 11.5" d  
54 cm x 36 cm x 30 cm

### Weight:

49 lbs.  
22 kg

### Shipping Dimensions:

24" x 16" x 14"  
61 cm x 41 cm x 36 cm

### Shipping Weight:

55 lbs.  
25 kg

## APPLICATIONS:

Portable Auditorium PA

Electronic Keyboards

Acoustic Instruments

Portable DJ Systems

**PTA1200-R** The PTA1200-R is a compact portable full range loudspeaker system offering both high fidelity and high efficiency. The Time-Aligned™ studio quality sound provides detail and clarity not found in other designs. Its small size and rugged Rotex finished birch plywood enclosure make the PTA1200-R an ideal choice for almost all portable sound reinforcement and musical instrument applications.

**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 mathematical principles than are used in the more common Fourier based measurement equipment.

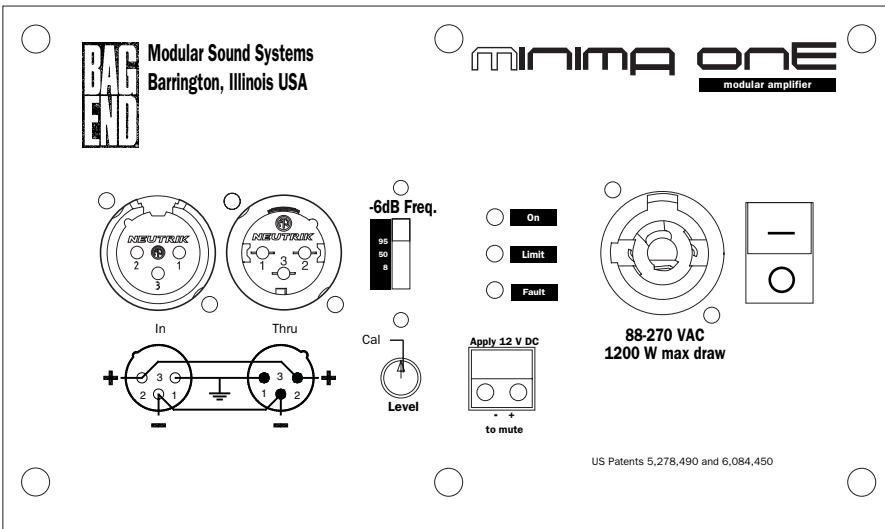
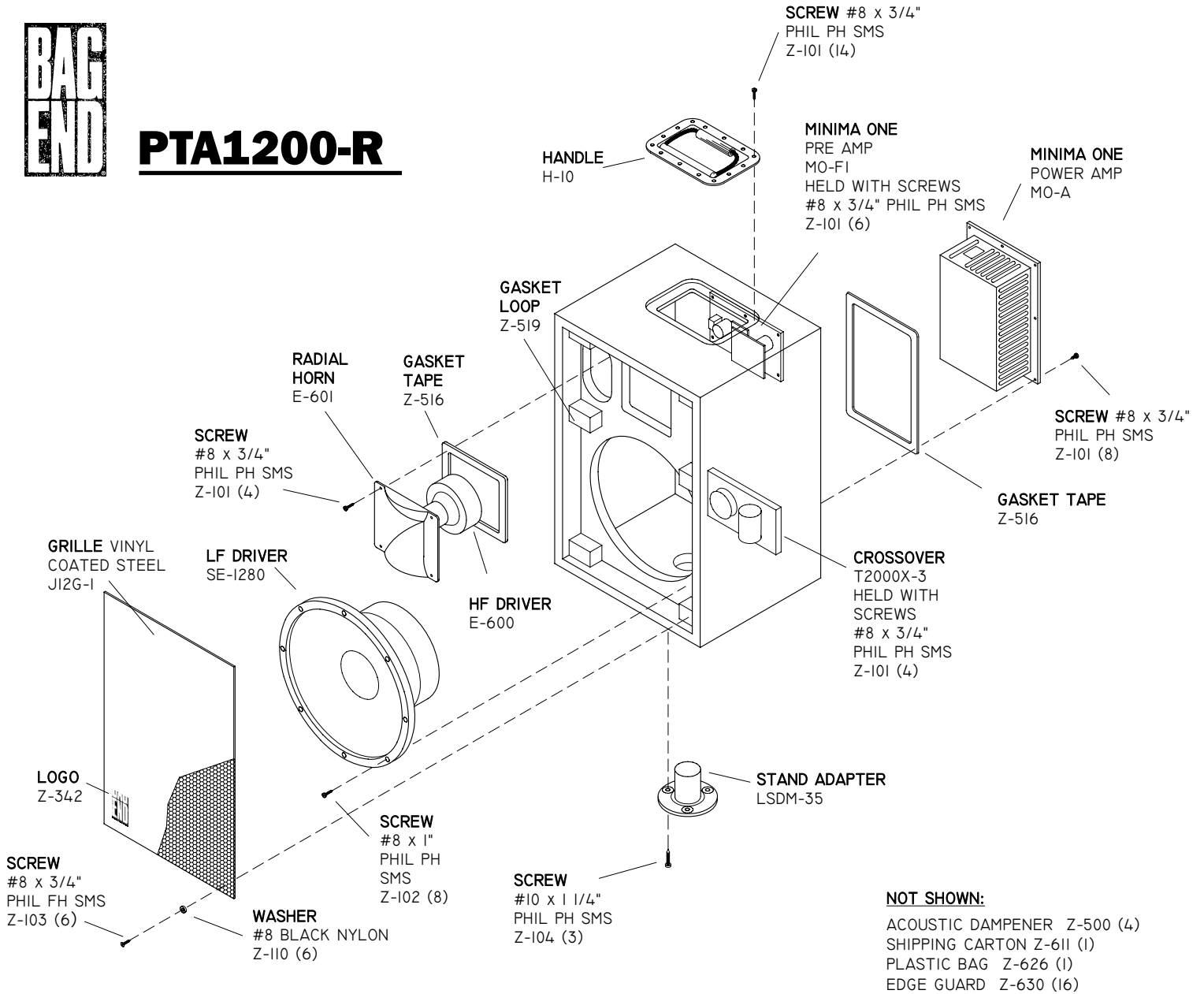
When comparing a genuine BAG END Time-Aligned™ speaker system to any other, our additional design work is easy to hear and appreciate. The dramatic clarity, realism, and overall pleasant sound of our Time-Aligned™ loudspeakers is noted throughout the world.

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





# PTA1200-R



## 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.