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## **Soundpac 506**

### **50W Battery Powered Speaker**

12-22-05

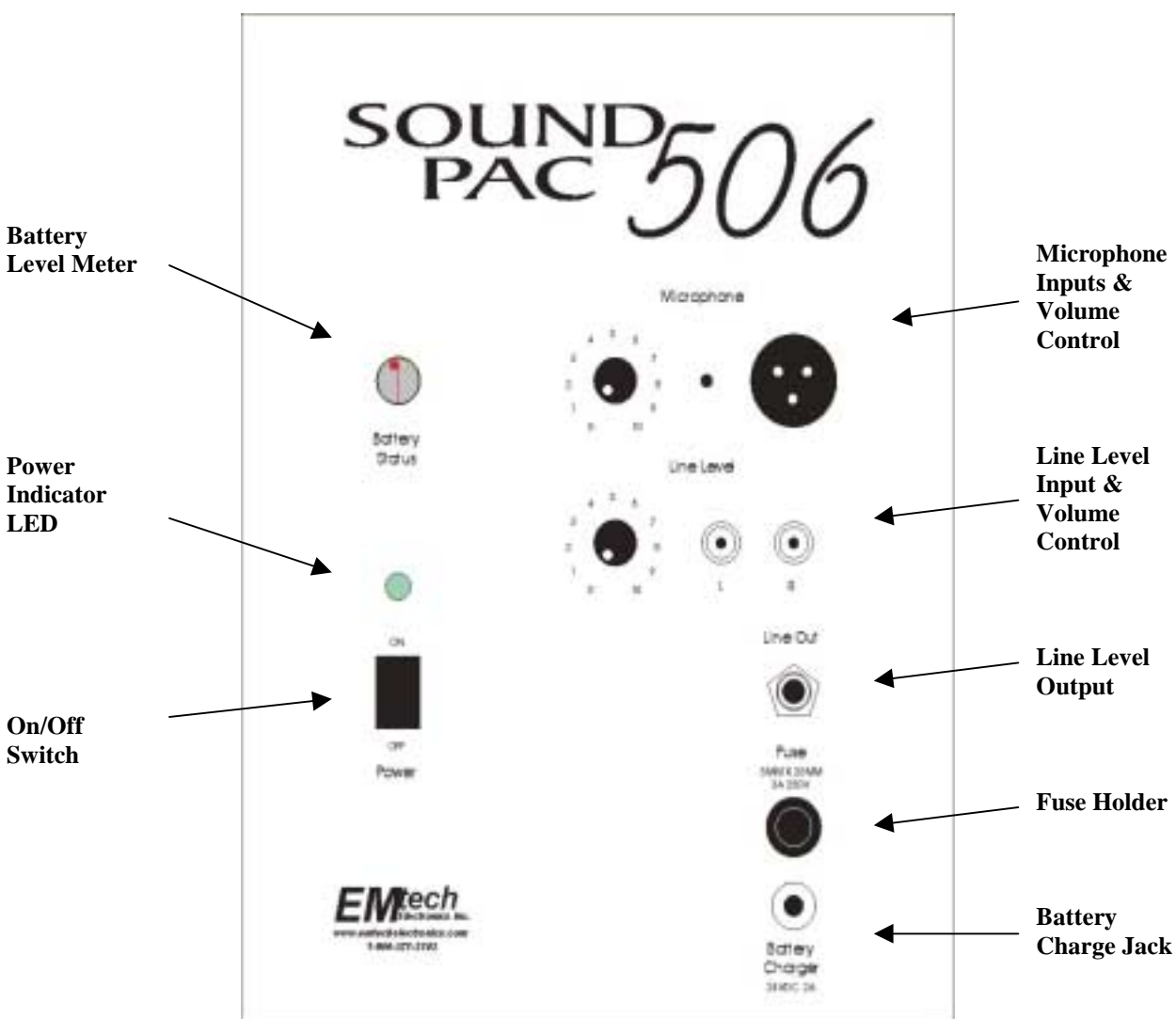
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The SP-506 is a rugged, hand portable sound system for either indoor or outdoor use. It was designed to be compact and easy to operate, while providing high quality sound reinforcement. Powered by rechargeable lead-acid batteries, the SP-506 means that your requirement for sound reinforcement is no longer dependent on the presence of an AC outlet. When outdoors, you can still have a quality sound system.

### Overview

The input and output connections, and controls for the Soundpac are all located on the rear panel of the speaker. The rear panel drawing, shown below, indicates the location of these connections and controls.





### **On/Off Switch & Power Indicator LED**

The SP-506 is turned on using the rocker switch on the left side of the rear panel. Prolong the charge of the sealed lead acid batteries by keeping the SP-506 turned off when not in use. **The SP-506 should always be turned off when charging the batteries.**

When the SP-506 is on, the green LED above the on/off switch will be illuminated. This provides a visual indication that the unit is powered on.



### **Battery Level Meter**

The battery level meter provides a visual indication of the charge status of the sealed lead acid batteries. When the SP-506 is fully charged the needle of the meter will be to the far right of the green zone. **To prolong the life of the batteries, we recommend that they be recharged as soon as the needle enters the red zone on the left side of the meter.** The unit will continue to function when the needle moves into the red zone, so if it is in use there is no need to interrupt using it, but do recharge the batteries as soon as it is no longer in use.

**Microphone****Line Level****Line Out****Fuse**5MM X 20MM  
3A 250VBattery  
Charger  
24VDC 2A**Inputs & Volume Controls**

Attach the microphone via the 3-Pin XLR connector on the right side of the rear panel. Just left of the XLR connector is a 3.5mm jack for plugging in a wireless receiver. The volume control for the microphone is on the far left. The microphone input is a balanced Lo-Z input. Attach line level inputs via the dual RCA jacks just below the XLR connector. It also has its own volume control to the left of the RCA jacks. The SP-506 has a built-in mixer that handles the signals from both the microphone input and line level input. If not using the microphone, turn the volume control down to the zero mark. That is also true for the line level volume control if not using the line level inputs. **Do not use the microphone directly in front of the speaker as this can cause feedback, and possibly damage the driver.**

**Line Level Output**

The SP-506 has a single 1/4" phone jack for line level output on the right side of the rear panel, below the input connectors. This connection is for recording purposes. To record what is spoken or played, attach a cable between the SP-506 and the input of the recording device via this connection.

**Fuse & Battery Charger Jack**

The SP-506 charging jack is fused for safety purposes. **When replacing the fuse, use only a 3 Amp 250V 5mm X 20mm fuse.** The battery charger jack is a 3-Pin DC power connector. The batteries are charged via a 24VDC 1.8 – 2.0 Amp intellect sealed lead acid battery charger provided with the unit. **Do not use any charger except the charger Emtech provided with the SP-506. The use of any other charger could damage the batteries and void the warranty.**

### **Using the SP-506 with a Microphone**

To use a microphone with the SP-506 attach the microphone to the unit via the 3-Pin XLR connector on the rear panel, turn the unit on via the on/off switch, and then adjust the volume via the microphone volume control. If using a wireless microphone, connect the wireless receiver to the SP-506 via the 3.5mm jack connector, then adjust the volume. Ease of use is a trademark of the Soundpac. **Remember to keep the microphone behind or to the side of the SP-506 to avoid feedback or damage to the driver.**

### **Using the SP-506 with a Line Level Device**

When using a line level device with the SP-506, such as a CD player, radio or tape recorder, attach the line output of the device to the SP-506 via the RCA jacks, then adjust the volume via the line level volume control. Although the line level input connectors allow a stereo attachment, the two inputs are mixed together inside the unit, resulting in a mono output via the speaker.

### **Taking Care of the SP-506**

The SP-506 electronics are housed in a sealed metal case that is covered with a tough powder coat finish. This case helps make the electronics moisture-proof, but not waterproof. **Do not immerse or expose the unit to excessive moisture to avoid permanent damage to the electronics and speaker.** The speaker cone is not moisture-proof or waterproof.

The intellect charger provided with the SP-506 is designed to charge and protect the sealed lead acid batteries according to manufacturers' recommendations. **We recommend that the Soundpac be kept fully charged when not in use. After each use, or between uses, keep it plugged into the charger.** The charger will display a red light while charging, then will display a green light when the charge reaches 90%. Once the batteries reach 90% charge, the charger will go into a trickle charge mode until the batteries reach 100%, then it protects the batteries from being overcharged.

If any problems occur with your SP-506, **we recommend that you contact Emtech for factory servicing.** Having the unit serviced by anyone else will void the warranty, and might cause permanent damage to the Soundpac.

**Emtech Electronics, Inc.**  
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**[www.emtechelectronics.com](http://www.emtechelectronics.com)**

**Specifications**

Rated Power . . . . .	59 Watts @ 1Vrms
Maximum Output . . . . .	108 dB
Line Input Sensitivity . . . . .	1v
Microphone Input . . . . .	Balanced Lo-Z
Total Harmonic Distortion . . . . .	0.022%
Number of Inputs . . . . .	2-Microphone/1-Line Level
Number of Outputs . . . . .	1-Variable Line Level
Power Requirements (battery charger) . . . . .	100-120 VAC @ 2A
Dimensions . . . . .	12.0" H X 8.5" W X 9.75" D
Weight . . . . .	16 lbs.

**Warranty**

Emtech Electronics, Inc. warrants the Soundpac 506 for a period of two years, from the original date of purchase, against defects in parts and workmanship. If a defect occurs, the unit will be repaired or replaced, at our option, free of all charges if delivered prepaid to the factory. Warranty does not extend to finish, appearance, abuse or defects due to the misuse or operation under other than specified conditions, nor does it extend to incidental or consequential damages. Repair by anyone other than Emtech will void the warranty.

**Accessories for the Soundpac 506**

Shure PG-48 Vocal Microphone



12V DC Auto Battery Charger

**Accessories for the Soundpac 506**



Microphone Stand



Speaker Tripod