

## Introduction to the Platinum Series™ Sound Processor

AdvancedBionics.com

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## Harmony™ HiResolution™ Bionic Ear System


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## Product Overview Processor

### Platinum Series Processor (PSP)



- Compatible with all AB internal devices
- 3 programs
- Custom rechargeable battery
- Built-in microphone tester

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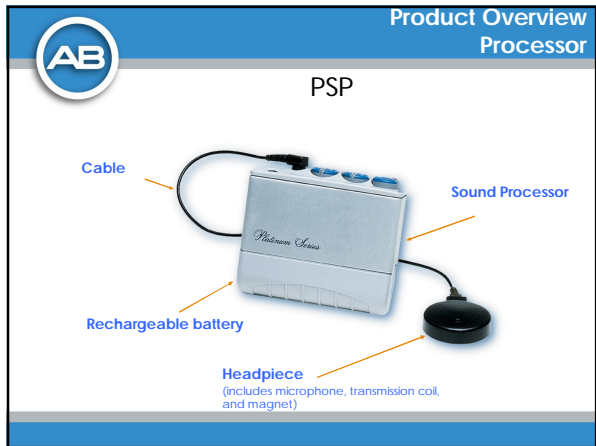
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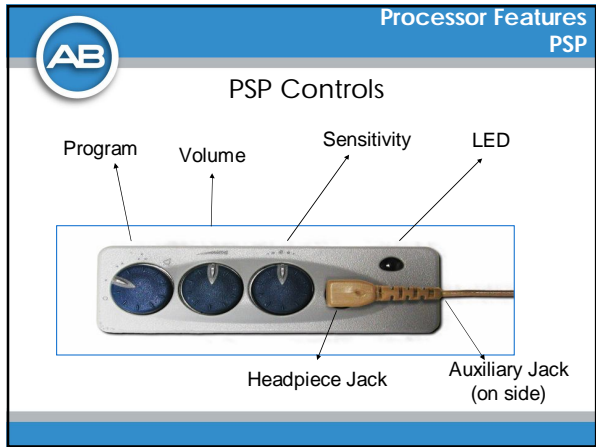
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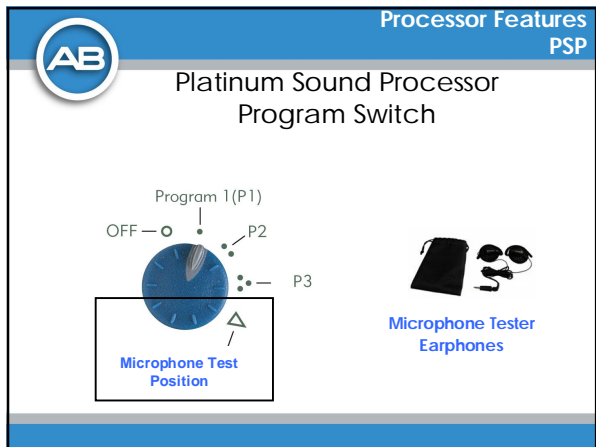
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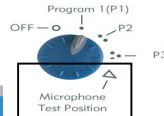
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Processor Features  
PSP



### PSP Microphone Check

- Steps to test microphone
  - Plug microphone test earphones into auxiliary jack of a PSP that has a charged battery attached
  - Turn program switch to microphone test position
  - Place the earphones on your ears to listen through the implant user's microphone to assess the microphone signal




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Processor Features  
PSP



### PSP Volume Control




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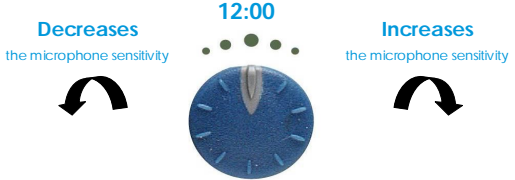
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Processor Features  
PSP



### PSP Sensitivity Control

The sensitivity control knob determines the softest level of sound that the cochlear implant microphone will pick up




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Processor Features  
PSP



### Platinum Sound Processor Light Emitting Diode (LED) Indicator

The LED is used to indicate the following:

1. Battery charge status
2. Lock status
3. Microphone system status




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Processor Features  
PSP



### LED Indicator

**1). Battery status:**  
 4 quick red blinks → battery fully charged  
 2-3 quick red blinks → battery sufficiently charged  
 1 quick red blink → battery near depletion




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Processor Features  
PSP



### LED Indicator

**1). Battery status:**  
 4 quick red blinks → battery fully charged  
 2-3 quick red blinks → battery sufficiently charged  
 1 quick red blink → battery near depletion

**2). Lock status:**  
 LED will synchronously flash red if communication is lost




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Processor Features  
PSP



### PSP LED Indicator Lock Status

- **Lock Status**
  - Communication status between the processor and internal cochlear stimulator
- Following the battery charge sequence, the LED will continue to **flash red once per second** until the headpiece is over the internal implant and communication with the internal device is established




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Processor Features  
PSP



### PSP LED Indicator IntelliLink™ Implant ID Safety Feature

- IntelliLink is a feature to assure that the correct processor and implant are connected
- A rapidly blinking **red light** indicates the wrong processor is trying to communicate with the internal device




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Processor Features  
PSP



### LED Indicator

- 1). **Battery status:**
  - 4 quick red blinks → battery fully charged
  - 2-3 quick red blinks → battery sufficiently charged
  - 1 quick red blink → battery near depletion
- 2). **Lock status:**
  - LED will synchronously flash red if communication is lost
- 3). **Mic/System status:**
  - Green LED flickers in response to loud input  
(Verifies that mic received sound, data transmitted to implant & processor received data from implant)




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### PSP LED Indicator Microphone System Status

- After the battery and lock status sequences, the LED should **flash green** to loud speech
- The **green flash** indicates the microphone is picking up sound and transmitting it to the internal cochlear stimulator



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### Audible Alarms

- Audible alarms\*
  - Lock
    - Synchronous beep
  - Low Battery
    - 2 beeps/5 seconds

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### PSP Power Options

- Custom rechargeable battery
  - Charger comes w/system
- An optional AA battery pack for alkaline or rechargeable batteries (takes 3 batteries) is provided



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Product Overview  
Power Options

### Battery Charger



- 2.5 hour charge cycle
- Red steady light indicates charging is in progress
- Green light indicates charging is complete
- Batteries do not need to be fully depleted before charging
- Approximately 10 - 12 hours battery life

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Product Overview  
Headpiece

### Platinum Headpiece (PHP)

- Compatible with all internal and external hardware
- Six inter-changeable color headpiece caps



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Product Overview  
Headpiece

### Magnets

- Can house up to 4 silver magnets
- Magnets are accessible under the color caps



Removing the color cap on the Platinum Headpiece

**CAUTION:** adding too many magnets to the headpiece may cause physical discomfort and can potentially damage the skin around the implant site

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Product Overview  
Summary

- Designed for durability
- Compatible with all AB internal devices
- Processor status updates via LED
- User-friendly processor controls



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