

# Cochlear N7 Cheat Sheet

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**Cochlear implants can be confusing at first. This guide introduces you to how they function and highlights basic troubleshooting.**



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## What Are Cochlear Implants?

Cochlear implants are medical devices designed to provide a sense of sound to individuals with severe to profound hearing loss or deafness. They are particularly helpful for people who do not benefit significantly from hearing aids due to the severity of their hearing loss. Cochlear implants work by bypassing damaged parts of the ear and directly stimulating the auditory nerve, allowing individuals to perceive sound signals and, over time, develop a sense of speech and environmental sounds.



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## External Cochlear Implant Parts

(what you see)

### Processor:

This includes the microphone and receives and processes sound to convert them into electrical signals.

### Coils:

Electromagnetic device that serves as a communication link between the external and internal pieces of the implant.

### Batteries:

These power the device and twist on and off for charging.



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## Internal Cochlear Implant Parts

(what you don't see)

### Internal Magnet:

This is what the coil (an external piece) connects to.



### Electrode Array :

These electrodes are surgically implanted in the cochlea, a spiral-shaped, fluid-filled structure in the inner ear.

These electrodes stimulate the auditory nerve directly, bypassing damaged hair cells in the cochlea.

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## What The Lights Mean

### **Blinking Green Light:**

Implants are on and working  
(as long as the magnet is right side down,  
see photos).

### **Blinking Orange Light:**

Coil is off or on the wrong side

### **Rapid Blinking Orange Light:**

Battery is dying.

### **Solid Orange Light:**

Coil or processor error.

### **Blinking Blue Light:**

Connected to bluetooth.



**Yep!**

This is right.  
I can hear you.



**Nope!**

This will blink green  
but bumpy side faces  
down.

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## Troubleshooting

### Coils:

Try removing and reinstalling the coils. Sometimes the connection becomes loose.



### Batteries:

Twist to remove the battery. If it won't twist, toggle small metal piece to unlock. Remove battery and then reinstall.