

TOOLS for SCHOOLS™ Program



Using & Troubleshooting the Neptune™ Sound Processor

Name

Title



Advanced Bionics



Mission

At Advanced Bionics we are *dedicated* to improving lives by developing technologies and services that help our recipients achieve their full potential.

- Our commitment to putting patients first and providing the best possible hearing *performance* remains at the forefront of all that we do.
- The trust patients place in us inspires us to act with *integrity and transparency* as we strive for excellence each and every day in all that we do.

To learn more about Advanced Bionics visit AdvancedBionics.com



Advanced Bionics



PHONAK

| Partners for Better Hearing

TOOLS for SCHOOLS™



Tools for Schools

Today's presentation is just one of many valuable FREE resources provided by Advanced Bionics' Tools for Schools™ program (TFS™).

The goal of the TFS program is to:

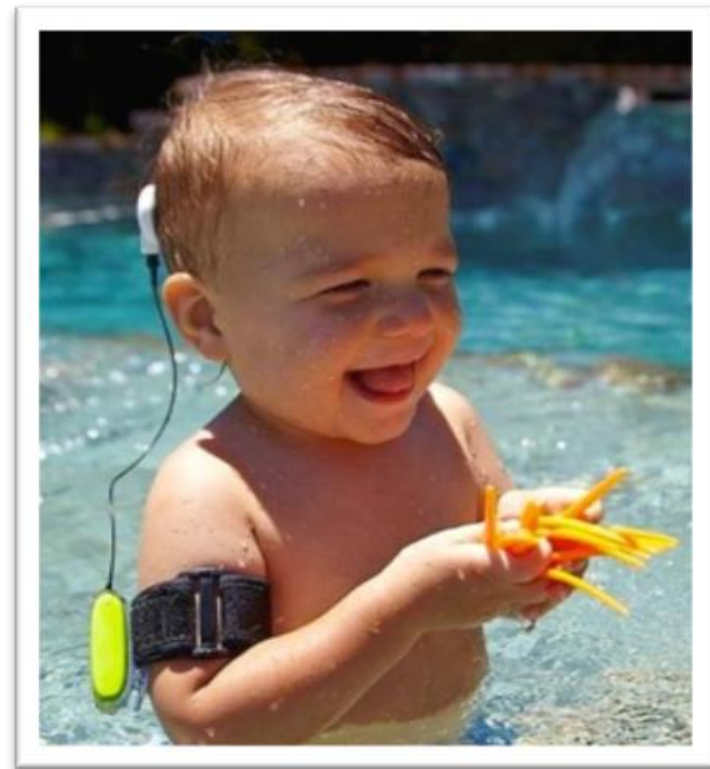
- Help school aged children with cochlear implants succeed in the classroom.
- Ease your workload and save you time.
- Educate parents and professionals about CI technology.
- Provide support for effective teaming between the School, CI center and Home.

Visit www.advancedbionics.com/tfs to learn more.



What You Will Learn Today

- **Features and functions of the Neptune™ sound processor**
- Troubleshooting the Neptune sound processor
- Connectivity with the Neptune sound processor





The HiResolution™ Bionic Ear System

Naída CI Sound Processor

The ultimate in
behind-the-ear wearing



Neptune™

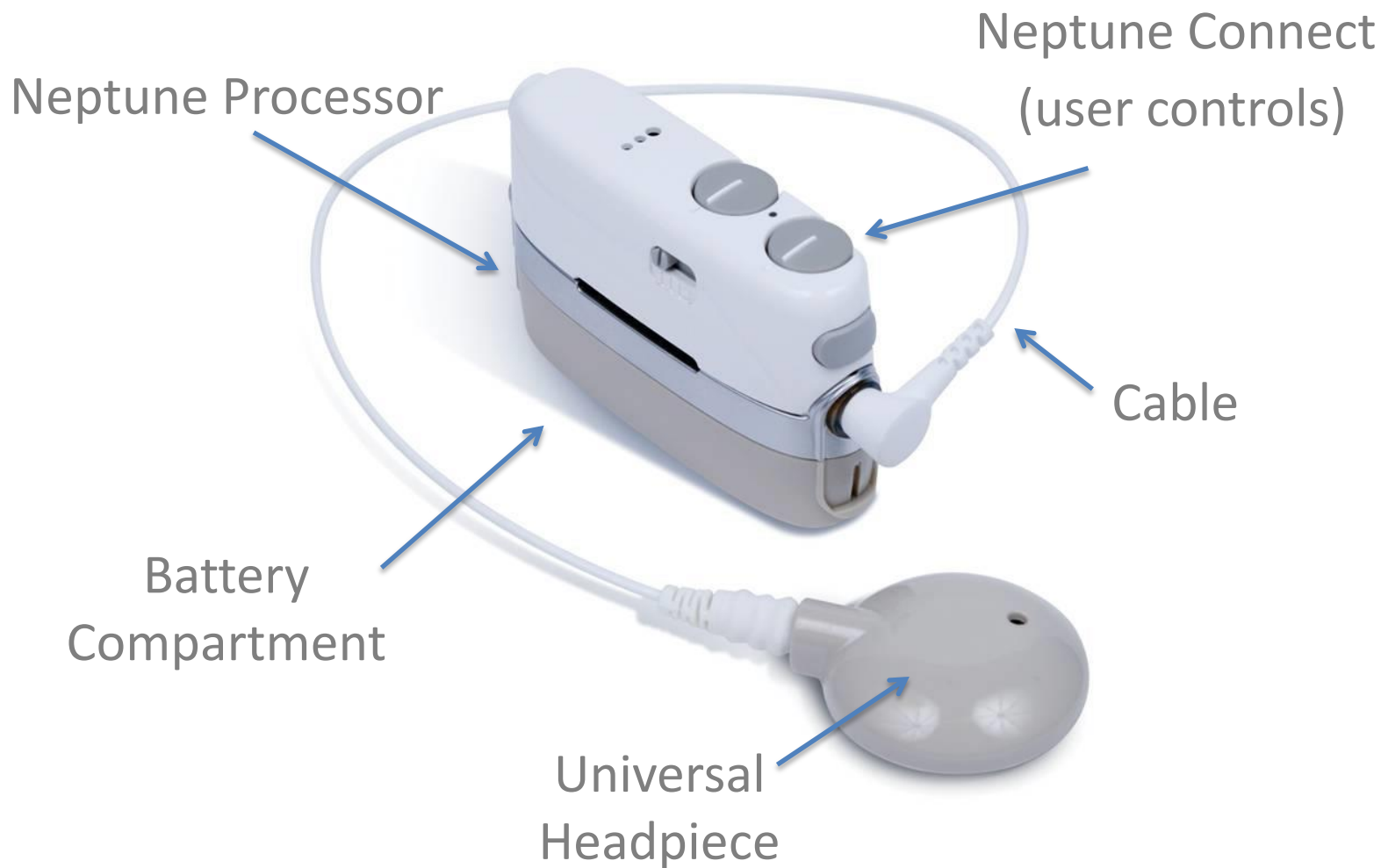
Swimmable sound processor

HiRes 90K™ Advantage Implant

The world's most advanced technology



Neptune™ Sound Processor





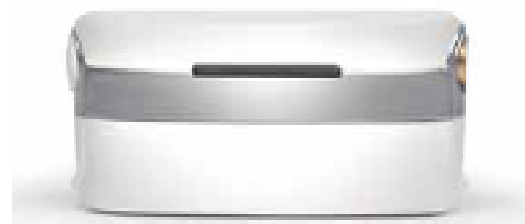
Neptune™ Sound Processor

Wearing Options



Neptune Processor with
Neptune Connect

Color Cover



Neptune Processor
without Neptune Connect



Neptune™ Sound Processor

Wearing Options

Reasons to remove Neptune Connect

- To make Neptune waterproof
- To make Neptune “child proof”
- To make the Neptune smaller



**Neptune Processor
without Neptune Connect**





Neptune™ Sound Processor

Fun and Bright!





Neptune™ Sound Processor

Headpiece Cable
Connector

Neptune Clip

Neptune
Color Cover

Neptune
Connect

Aux input Jack

On/Off Button

Processor LED

Battery Cover





Neptune™ Sound Processor

Diagnostic Indicators

Light-Emitting Diode (LED)

- system status
- battery life
- program position
- audio input
- error condition

Audible Alarms

- system status
- battery life
- error condition



LEDs



Neptune™ Sound Processor

Power Options

Single AAA Battery

- Alkaline
- Lithium

Rechargeable AAA battery

- Nickel-metal Hydride (NiMH)





Neptune™ Sound Processor

- **Lithium AAA battery**
 - Avg 20 hrs
 - Range 11-30 hrs
- **Alkaline AAA battery**
 - Avg 12 hrs
 - Range 6-21 hrs
- **Rechargeable NiMH AAA battery**
 - Avg 13 hours
 - Range 8-21 hrs





Neptune™ Sound Processor

Neptune Connect

- ✓ Easy-to-use,
 - volume dial
 - sensitivity dial
 - program position
- ✓ FM, Roger™ and Audio Input
- ✓ Listening Check



Removable Module- not needed for daily operation



Neptune™ Sound Processor

Neptune Connect

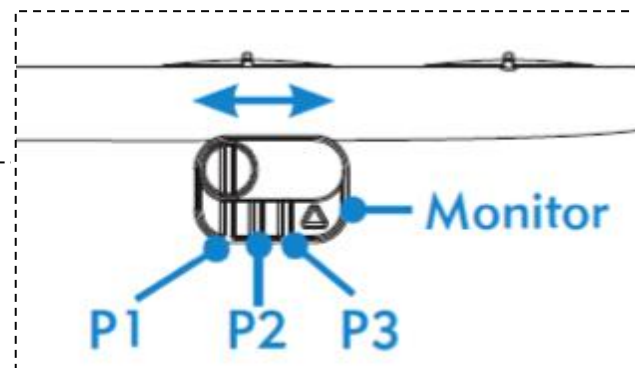


Remember: Volume control is at the end and Sensitivity control is in the middle



Neptune™ Sound Processor

Program Switch



Select a program or monitor the headpiece microphone by sliding the Program Switch to the right or left.



Neptune™ Sound Processor

Sync Light

- Verify communication between the Neptune Connect and the sound processor
- Safety feature
- Peace of mind





Neptune™ Sound Processor

Sync Light

To sync if Neptune™ is OFF:

- Remove Color Cover and attach Neptune Connect
- Set program & dials
- Turn on Neptune

To sync if Neptune is ON:

- Remove Color Cover and attach Neptune Connect
- Confirm program and sensitivity settings on the Neptune Connect
- Turn the volume wheel fully counter-clockwise - Sync Light will flash green once
- Return the volume to the typical use position
- The controls are now active








Neptune™ Sound Processor

SYNC

LIGHT

Behavior	Indication
One green flash 	Neptune Connect and processor settings are synced. Any changes made to the volume or sensitivity wheel will take effect.
Flashes red once per second 	A mismatch exists between Neptune processor settings and Neptune Connect settings. In order to sync settings, turn volume dial all the way down (counter-clockwise); verify green light flashes once; then adjust the controls to desired position(s).
Solid red light 	Error condition. If this occurs, remove and re-attach Neptune Connect.



Neptune™ Sound Processor

To Detach the Neptune
Connect press the
release latch



Release Latch



Neptune™ Sound Processor

Headpieces

Universal Headpiece (UHP)

- Compatible with all AB sound processors
- Designed for use during everyday activities with the exception of swimming and bathing

AquaMic™

- For use with Neptune™ and Naída CI Q70 processors
- Designed for use during swimming and bathing
- IP68 Rating



AquaMic

UHP



Neptune™ Sound Processor

AquaMic™ vs. UHP

How to tell the difference?

Size

- UHP is slightly thinner

Color

- UHP underside is **black**
- AquaMic underside is **grey**

Cable Connector

- Headpiece specific



UHP

AquaMic



Neptune™ IP 68 Rating



IP

Ingress Protection

Only AB has the
**industry's highest
rating**



6

Protection against solid foreign bodies

AB offers maximum
protection against solid
particles.



8

Protection against various forms of moisture

Only AB offers the world's
first processor and
microphone intended for
repeated submersions.



Neptune™ Sound Processor

T-Comm™

Benefits of T-Comm

- Improved hearing in noise & localization
- Ease of use with telephones, headphones, & Bluetooth receivers
- T-Coil option
- Small & extremely lightweight



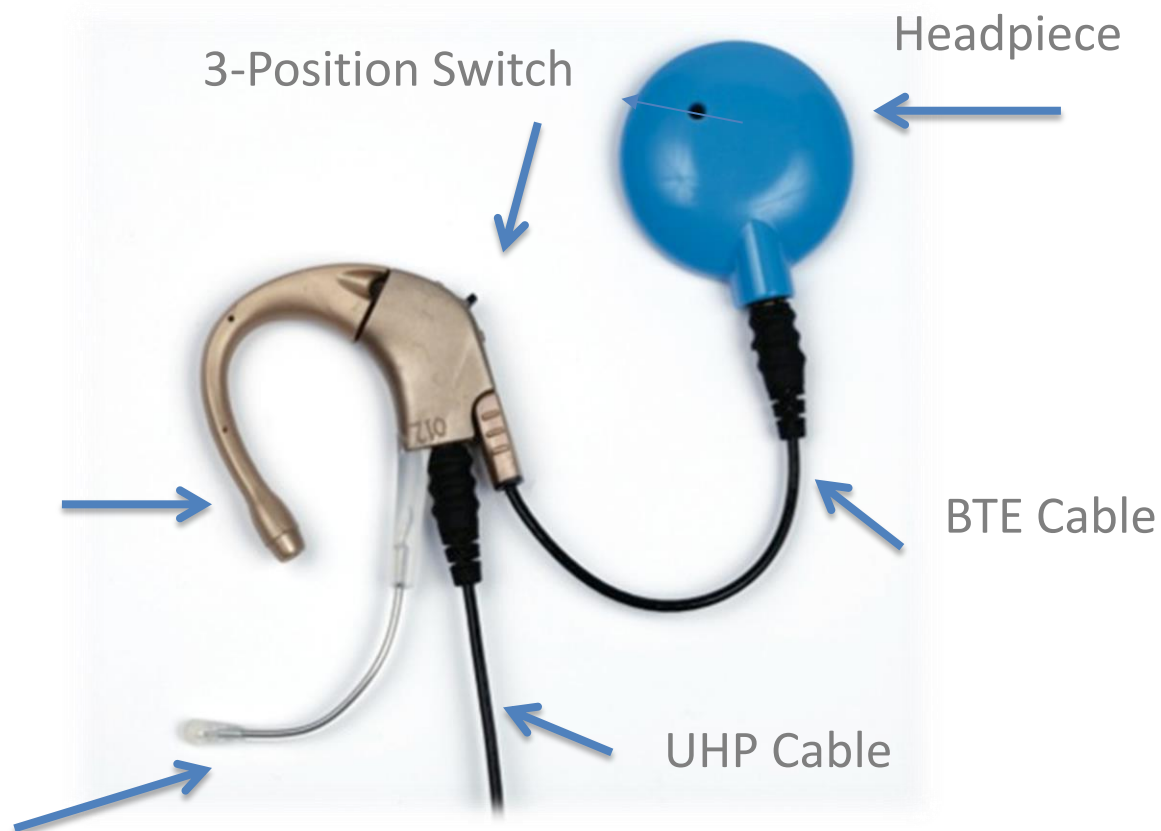
** T-Comm must be removed prior to Neptune water use.*

TOOLS for SCHOOLS™



Neptune™ Sound Processor

T-Comm™ Parts





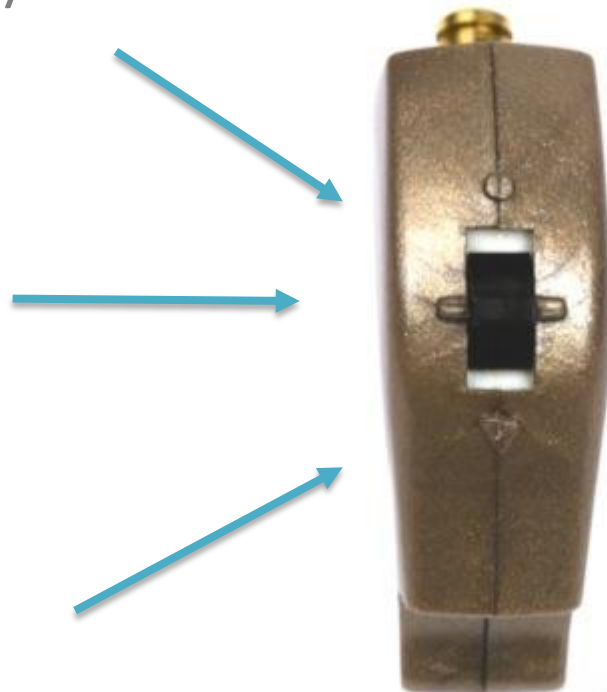
Neptune™ Sound Processor

Using T-Comm™

T-Mic™ input only
Top

T-Mic + T-Coil input
Middle

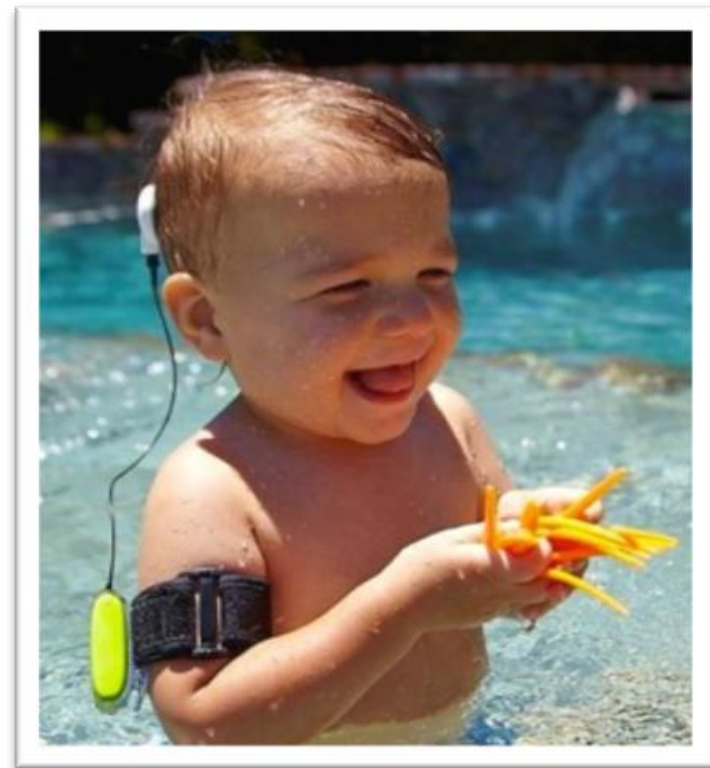
T-Coil input only
Bottom





What You Will Learn Today

- Features and functions of the Neptune™ sound processor
- **Troubleshooting the Neptune sound processor**
- Connectivity with the Neptune sound processor





Troubleshooting

Basic Steps

When a child is not responding as expected:

1. Verify the UHP is in place and on the child's head
2. Remove the Neptune and UHP from the child. Visually inspect the equipment and replace damaged parts
3. Verify the battery is charged
4. Verify Neptune settings or reset the Neptune to Program 1
5. Place the Neptune and UHP back on the child and use the LED's and/or audible alarms to determine what the problem may be
6. Perform a listening check



Troubleshooting

1. Verify the headpiece is in place on the child's head

- If the headpiece is not on the child's head, place it on the child's head, positioned over the internal implant (you will feel the magnetic attraction)
- Contact the child's parents or audiologist if the headpiece falls off often. This may indicate that the strength of the magnet inside the headpiece needs to be adjusted





Troubleshooting

2. Visually inspect the child's equipment and systematically replace damaged parts

- Check the Neptune for damage
- Inspect the cable for any twisting, fraying, or breakage. Remember the cable is the weakest link.
- Verify the cable clicks or snaps into place when connected to the UHP and processor
- Verify there is no visible damage to the UHP
- Inspect cable ports and jacks for debris. Clean with compressed air if needed
- Replace damaged equipment if necessary



Troubleshooting Neptune™

Inspect Ports and Jacks

- Ensure connections are tight
- Look for debris or damage



Headpiece
Cable Jack

Headpiece cable
connection

Microphone Port
(Mic Source)

Auxiliary Jack
(Aux Source)



Europort
(Aux Source)



Troubleshooting

3. Verify the battery is charged

- Remove the battery and then reattach it to the processor
- The LED (located on the side of the processor) will flash ORANGE to indicate battery status
- 3-4 ORANGE blinks indicates the battery is sufficiently charged to power the processor
- Replace with a fully charged battery if needed



LED



Troubleshooting

4. Verify settings or Re-set the child's processor to Program 1

- **If the child is using the Neptune connect**
 - Ensure the processor is set on the correct program with standard volume and sensitivity setting
 - Power off and then re-start the Neptune
- **If the child is not using the Neptune connect**
 - Power off and then re-start the Neptune processor
 - Hold the power button for 3-5 seconds when powering on to re-set the processor to P1 at default volume and sensitivity settings



Troubleshooting

5. Use the Neptune's LED indications and audible alarms to determine what the problem may be




LED Indicators

FEATURE	COLOR
Battery Status	Orange
Microphone Status	Green
Program Position	Green
CI Status	Red



Troubleshooting Neptune™

LED Indications

 Orange Battery Status	<ul style="list-style-type: none">• Blinks at start-up: 1-4 quick blinks indicates level of charge with 4 meaning a fully charged battery• Solid: Battery is almost depleted• Blinks twice every two seconds: Battery depleted and cannot support stimulation• Fades Out: Powering down
 Red System Status	<ul style="list-style-type: none">• Blinks once per second: Loss of lock• Blinks rapidly: Wrong implant• Solid: Error Condition
 Green Microphone & Program Status	<ul style="list-style-type: none">• Flickers in response to loud inputs: Mic and sound processor are responding to sound• Blinks at start-up: Program position• Solid Green: Empty program slot or monitor position



Troubleshooting Neptune™

Audible Alarms

Beeps once per second	Yes	Loss of lock with the implant
Beeps rapidly (more than once per second)	Yes	Wrong implant connected
Beeps slowly (once every five seconds)	Yes	Low battery
Two beeps every three seconds	Yes	Battery is depleted and cannot support stimulation
Continuous beep	No	Sound processor error condition. Fully remove and re-insert battery to reset processor.



Troubleshooting Neptune™

6. Perform a Listening Check

- Listen to the headpiece microphone/T-Mic/FM/T-Coil
- Say the Ling 6 sounds as you complete the check as these sounds encompass the frequency range of all phonemes
- After completing the Listening Check replace any malfunctioning equipment





Troubleshooting NeptuneTM

Microphone Inputs

FM/RogerTM



Headpiece Mic



T-Coil



T-MicTM

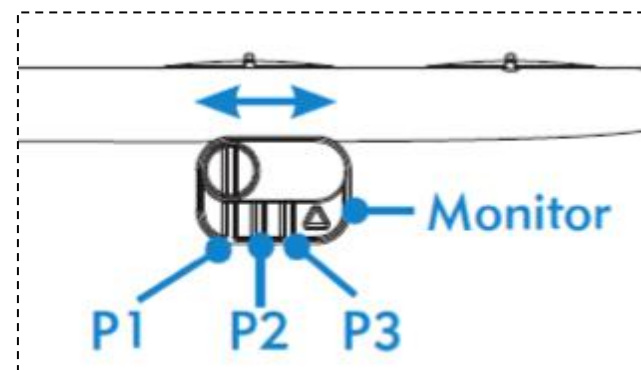




Troubleshooting Neptune™

Completing a Listening Check

1. Turn on the Neptune™ processor
2. Attach the Neptune connect
3. Ensure the Neptune Connect and Neptune are synced
4. Connect earbuds to the Auxiliary Jack
5. Set the program switch to the fourth (triangle) position.
6. Speak in a normal voice and monitor output with earbuds/headphones





AB MAKES IT SIMPLE FOR SCHOOLS!

Did you know??

AB makes it Simple for Schools by providing FREE and easy downloadable instructions and pictures to conduct a Ling 6 Sound assessment.

Visit AdvancedBionics.com/tfs and click on Tools for Using the Ling 6 Sounds to print

The Ling 6 Sounds”

“ah”, “oo”, “eee”, “sh”, “sss”, “mmm”





Troubleshooting

Ask the Right Questions

If you are unable to resolve the problem it is helpful to provide the following information to the child's parent or audiologist so they can complete further troubleshooting:

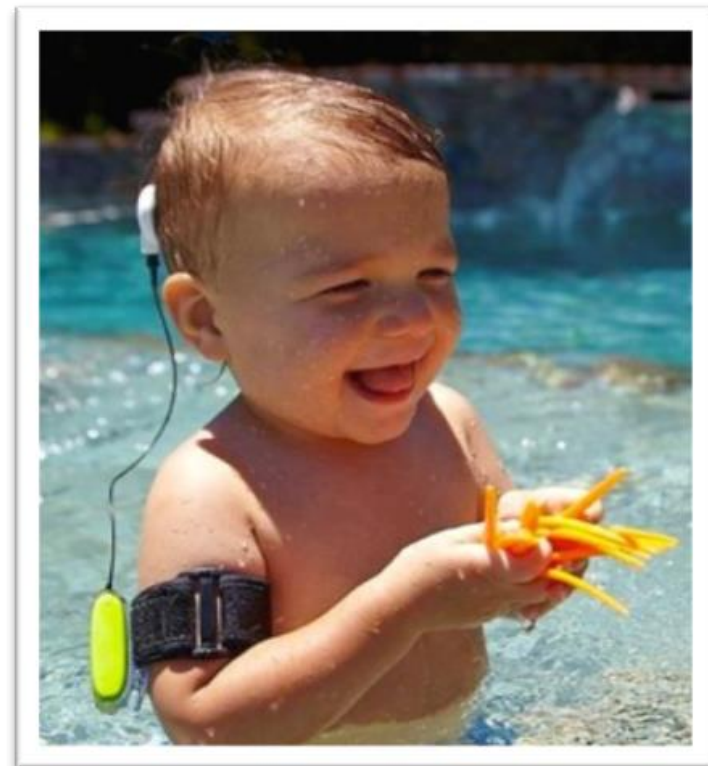
- When did the problem begin?
- What pieces of equipment seem to be involved?
- Is the problem constant or intermittent?
- Is the problem situational?





What You Will Learn Today

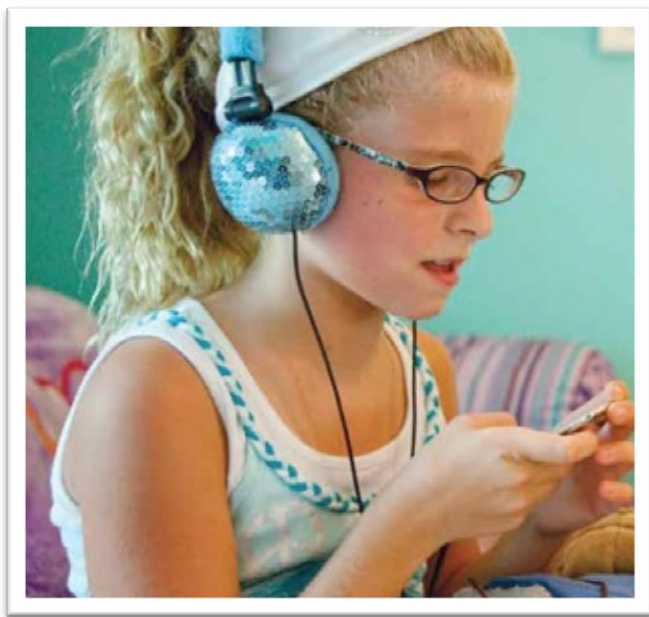
- Features and functions of the Neptune™ sound processor
- Troubleshooting the Neptune sound processor
- **Connectivity with the Neptune sound processor**





Connectivity

Options in Connectivity



- Natural
- Wireless
- T-Coil
- Direct



Connectivity

Natural Connectivity with the T-Mic™

- Natural Placement for headsets, earbuds, or phones
- Access to commercially available audio devices





Connectivity

Wireless Connectivity

Many AB recipients benefit from Roger TM/FM

A system that employs a transmitter/microphone and a receiver to improve the signal-to-noise ratio in difficult listening environments





Connectivity

Compatible Receivers



MLxi



Roger™



MyLink+



Roger™ MyLink

Receiver	Compatible with Neptune
Roger X	Yes
MLxi	Yes
MyLink+	Yes (must use T-Comm)
Roger MyLink	Yes (must use T-Comm)



Connectivity

Wireless FM with the Roger™ and MLxi

- Remove the Neptune and headpiece from the child
- Ensure that the Neptune is on and synced to Neptune Connect
- Align the three connector pins with the Euro connector as shown
- Adjust the program dial to the proper Roger/FM Program
- Turn down the volume on the Neptune
- Position the headpiece and Neptune in the child's preferred wearing style
- Turn up the volume on the Neptune and Roger/FM system to user settings
- Complete a functional listening check using the Ling 6 Sound Check or simple sentence materials.



Simply Sync
and Connect



Connectivity

Wireless Roger™ /FM with MyLink+ or Roger MyLink

- Remove the Neptune and headpiece from the child
- Attach the T-comm if it is not already attached for use
- Ensure that the Neptune is on and synced to Neptune Connect
- Ensure the MyLink+ or Roger MyLink is synced to the transmitter/microphone
- Adjust the program switch on the Neptune to the proper FM Program
- Adjust the T-comm to the desired setting- T-Coil or T-coil +T-Mic
- Turn down the volume on the Neptune
- Position the headpiece and Neptune in the child's preferred wearing style
- Hang the Roger MyLink or MyLink+ around the neck of the child
- Turn up the volume on the sound processor and Roger/FM system to user settings
- Complete a functional listening check using the Ling 6 Sound Check or simple sentence materials.





Connectivity

Compatible Phonak Transmitters/Microphones

- The specific Transmitter or Microphone you are using must be compatible with the receiver being used
- Contact Phonak at www.phonak.com for detailed information on compatibility





Connectivity

T-COIL

- For looped areas, compatible phones, or Roger[™] /FM use
- Neptune users must attach the T-Comm to use the T-Coil

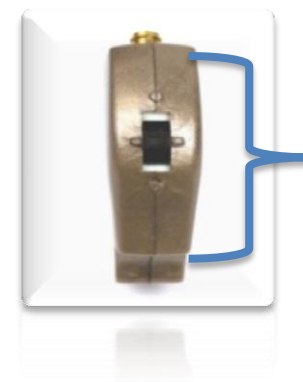
T-COMM

Three Position Switch:

Top = T-Mic

Middle = T-Mic + T-Coil

Bottom = T-Coil





Connectivity

Direct



- Requires plugging an interface cable into the Auxiliary Jack on the side of the Neptune Connect
- Items such as MP3 players, tablets, and telephones can be directly connected



Connectivity

Direct

- Use the AB Audio Interface Cable.
- The Interface cable has two 3.5 mm connectors and is compatible with a 3.5 mm jack
- Jack size converters for a 2.5mm port can be found at most electronics stores



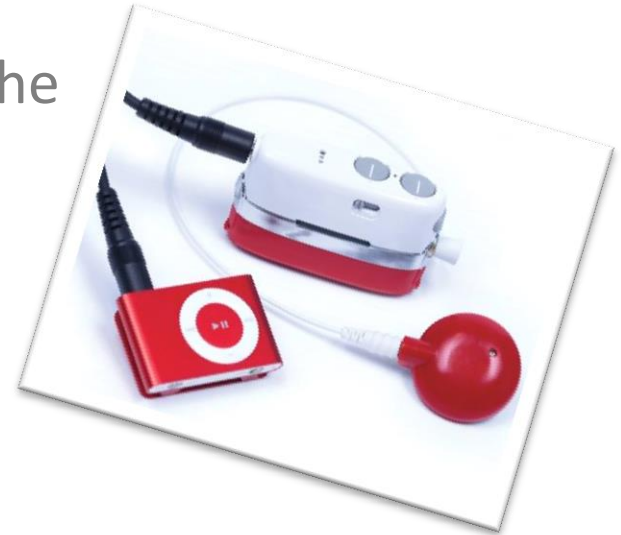
Audio Interface Cable



Connectivity

Steps to connect to a portable electronics device:

- Ensure the Neptune is on and synced to the Neptune Connect
- Ensure that the proper program for auxiliary input is selected
- Connect one end of the Audio Interface Cable to the 3.5 mm Auxiliary Jack on the side of the Neptune Connect (this cable is not sided)
- Connect the opposite end of the cable to the headphone jack of the audio device.





Connectivity

Direct

Additional interface cables available from AB



The Telephone Adapter



The Telecoil Pick-up (for use with T-Comm™)



Connectivity

Considerations for Connectivity

Important!

Sync Neptune Connect with the Neptune sound processor before connecting an auxiliary input!





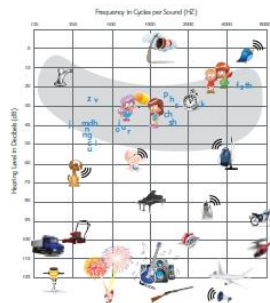
Best Practices in Connectivity

- Verify you are using the correct program and settings for Roger/FM or auxiliary input
- Only connect to battery-powered audio devices
- Only connect to AB tested and approved devices
- Complete a listening check and monitor input and connections





AB Makes it Simple for Schools



Advanced Service
For questions or additional information, call Toll Free 1-877-626-2266 TTY 1-800-371-2273. Shipping through FedEx, Same Day Open/HS
View Advanced Service page: www.fishbase.org/AdvancedService.aspx | [Fishbase.org/AdvancedService.aspx](http://www.fishbase.org/AdvancedService.aspx)



How the Ear Works
 The sound enters the ear, travels through the eardrum to the brain. This can consist of several parts within the ear, inner ear, and the auditory nerve. Each of these parts plays a role in sound transmission to the brain.

The Outer Ear
The outer ear (or pinna) captures sound and then directs the sound down the ear canal to the eardrum.

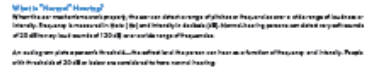
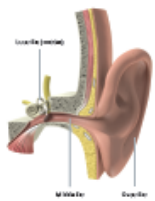
The middle ear
Sound vibrations are picked up and transmitted to the middle ear. The middle ear consists of three bones, the ossicles (hammer, anvil and stirrup), all of which help convert sound vibrations into sound.

The Linear Ear

This ear can hear nothing at all until it has been conditioned. Then sensory cells have different thresholds for the transduction of sound. It is the unique properties of the linear ear that are responsible for separating pitch and loudness information into an electrical code that the brain can use to transmit to the brain.

The Auditory Nerve

This auditory nerve (or hearing nerve) is responsible for transmitting the neural information from the linear ear to the higher processing centers of the brain. The brain is responsible for interpreting sound.

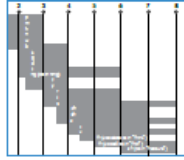


The Sounds of Speech

English Consonants					Vowels				
Consonant	IPA Symbol	IPA Example	IPA Example	IPA Example	Vowel	IPA Symbol	IPA Example	IPA Example	IPA Example
p	p	top	top	top	i	i	kit	kit	kit
b	b	bottom	bottom	bottom	e	e	dress	dress	dress
t	t	top	top	top	æ	æ	trap	trap	trap
d	d	bottom	bottom	bottom	ʌ	ʌ	strut	strut	strut
k	k	top	top	top	ʊ	ʊ	foot	foot	foot
g	g	bottom	bottom	bottom	ɔ	ɔ	lot	lot	lot
q	q	top	top	top	ɒ	ɒ	lot	lot	lot
j	j	top	top	top	ɪ	ɪ	kit	kit	kit
ɟ	ɟ	bottom	bottom	bottom	ʊ	ʊ	foot	foot	foot
ɕ	ɕ	top	top	top	ɔ	ɔ	lot	lot	lot
ʝ	ʝ	bottom	bottom	bottom	ɒ	ɒ	lot	lot	lot
ɥ	ɥ	top	top	top	ɪ	ɪ	kit	kit	kit
ʎ	ʎ	bottom	bottom	bottom	ʊ	ʊ	foot	foot	foot
ɹ	ɹ	top	top	top	ɔ	ɔ	lot	lot	lot
ɻ	ɻ	bottom	bottom	bottom	ɒ	ɒ	lot	lot	lot
ɽ	ɽ	top	top	top	ɪ	ɪ	kit	kit	kit
ɿ	ɿ	bottom	bottom	bottom	ʊ	ʊ	foot	foot	foot
ʲ	ʲ	top	top	top	ɔ	ɔ	lot	lot	lot
ɰ	ɰ	bottom	bottom	bottom	ɒ	ɒ	lot	lot	lot
ɱ	ɱ	top	top	top	ɪ	ɪ	kit	kit	kit
ɯ	ɯ	bottom	bottom	bottom	ʊ	ʊ	foot	foot	foot
ɶ	ɶ	top	top	top	ɔ	ɔ	lot	lot	lot
ɷ	ɷ	bottom	bottom	bottom	ɒ	ɒ	lot	lot	lot
ɸ	ɸ	top	top	top	ɪ	ɪ	kit	kit	kit
β	β	bottom	bottom	bottom	ʊ	ʊ	foot	foot	foot
ɹ̥	ɹ̥	top	top	top	ɔ	ɔ	lot	lot	lot
ɹ̬	ɹ̬	bottom	bottom	bottom	ɒ	ɒ	lot	lot	lot
ɹ̥̬	ɹ̥̬	top	top	top	ɪ	ɪ	kit	kit	kit
ɹ̬̥	ɹ̬̥	bottom	bottom	bottom	ʊ	ʊ	foot	foot	foot
ɹ̥̬̥	ɹ̥̬̥	top	top	top	ɔ	ɔ	lot	lot	lot
ɹ̬̬̥	ɹ̬̬̥	bottom	bottom	bottom	ɒ	ɒ	lot	lot	lot
ɹ̥̬̬̥	ɹ̥̬̬̥	top	top	top	ɪ	ɪ	kit	kit	kit
ɹ̬̬̬̥	ɹ̬̬̬̥	bottom	bottom	bottom	ʊ	ʊ	foot	foot	foot
ɹ̥̬̬̬̥	ɹ̥̬̬̬̥	top	top	top	ɔ	ɔ	lot	lot	lot
ɹ̬̬̬̬̥	ɹ̬̬̬̬̥	bottom	bottom	bottom	ɒ	ɒ	lot	lot	lot
ɹ̥̬̬̬̬̥	ɹ̥̬̬̬̬̥	top	top	top	ɪ	ɪ	kit	kit	kit
ɹ̬̬̬̬̬̥	ɹ̬̬̬̬̬̥	bottom	bottom	bottom	ʊ	ʊ	foot	foot	foot
ɹ̥̬̬̬̬̬̥	ɹ̥̬̬̬̬̬̥	top	top	top	ɔ	ɔ	lot	lot	lot
ɹ̬̬̬̬̬̬̥	ɹ̬̬̬̬̬̬̥	bottom	bottom	bottom	ɒ	ɒ	lot	lot	lot
ɹ̥̬̬̬̬̬̬̥	ɹ̥̬̬̬̬̬̬̥	top	top	top	ɪ	ɪ	kit	kit	kit
ɹ̬̬̬̬̬̬̬̥	ɹ̬̬̬̬̬̬̬̥	bottom	bottom	bottom	ʊ	ʊ	foot	foot	foot
ɹ̥̬̬̬̬̬̬̬̥	ɹ̥̬̬̬̬̬̬̬̥	top	top	top	ɔ	ɔ	lot	lot	lot
ɹ̬̬̬̬̬̬̬̬̥	ɹ̬̬̬̬̬̬̬̬̥	bottom	bottom	bottom	ɒ	ɒ	lot	lot	lot
ɹ̥̬̬̬̬̬̬̬̬̥	ɹ̥̬̬̬̬̬̬̬̬̥	top	top	top	ɪ	ɪ	kit	kit	kit

5. These charts and tables will read and convert important information and designed to assist you during therapy.

English Consonants—Age of Acquisition
Adapted from Sanders 1972 and Temple 1987



Advanced Blarics
For questions or additional information
Call Your Purge 1-877-849-6666
TTY 1-800-476-4223
Monday - Friday 9:00 am - 5:00 pm EST
Customer Service@blaricsusa.com
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THE LING SIX Sound Check

What is the Ling Six Sound Check?

The following word and Greek roots are important to understand when learning Latin. The words are listed in the order in which they are introduced in the text. The Greek roots are listed in the order in which they are introduced in the text. The words are listed in the order in which they are introduced in the text. The Greek roots are listed in the order in which they are introduced in the text.

How old were you when	How would you describe
Under 1800 yrs	Very young and naive
Over 1800 yrs	Old
Over 1800 yrs	Not

[How do I Complete the Ling Six Sound Check?](#)

- [illegible]



TOOLS for SCHOOLS™



Tools for Toddlers™ Program

Do you know about Advanced Bionics' Tools for Toddlers program (TFT™)?

TFT provides free resources created specifically to help support early intervention and pre-school aged children.



Visit the Tools for Toddlers Program at

www.advancedbionics.com/tfs

TFT resources can be found on the lower section of the TFS page



LITERACY STRATEGIES for the Very Young Child

By Kristin S. Henning, MS, CCC-SLP LSLJ, CASHA, TF

When you begin planning therapy for the infant with hearing loss, the first thought may be that books are not appropriate due to a child's lack of reading and attention. However, the opposite is actually true. You can and should begin introducing books to children as early as you can to the child's home. These are several activity designed to provide you with strategies on how to facilitate your literacy development in therapy young child.

Therapy for the Infant (0-6 Months)		
The Adult	The Child	Book Features
<ul style="list-style-type: none"> • Introducing the parent(s) • Exposure to print • Soundly with books • Soundly with children • Point to pictures • Use books with bright colors and tactile properties • Focus on the words (highlighting or otherwise) • Read in the parent's or the child's home • Use simple phrases • Hold up your own words 	<ul style="list-style-type: none"> • Listen and observe • Soundly with the adult • By 6 months of age, the child will be holding and turning the book • Increased interest in pictures, bright and tactile colors • Interest in pictures of faces 	<ul style="list-style-type: none"> • Simple large pictures • Bright colors • Clearly labeled books • Bold and tactile • Childproof books

Therapy for the Infant (6-12 Months)		
The Adult	The Child	Book Features
<ul style="list-style-type: none"> • Continue with parent(s) • Follow child's lead, especially in reading books • Talk about pictures • Keep books on low shelves • Offer a reading log • Hold up "story" 	<ul style="list-style-type: none"> • Attend to print • Recognize familiar objects • Respond to requests to reading • Point pictures • Follow pictures of faces • Observe and observe the world, collecting and observing to bring about collection for the book 	<ul style="list-style-type: none"> • Bold books • Pictures of faces • Tactile objects • Bold books • Small photo photo albums • Memory albums • Books about nature and animals • Multisensory books



Exploring COMMUNICATION OPTIONS

As a parent(s) of a child with a hearing loss you will need to choose which communication method(s) is the best for your child and your family. Below you will find some basic information about all communication options available. We have also provided additional details below why you can have more about each approach.

American Sign Language (ASL)

- Typically associated with the deaf culture (deaf and hard of hearing)
- A complete, visual and conceptual system
- A separate language comprised of its own unique signs and hand signs
- No written form
- ASL is not a sign language for communication
- Its focus is on the visual and the spoken language
- Expressive communication uses the entire body in conveying meaning

The further information about ASL, visit [gallaudet.edu](http://www.gallaudet.edu/gallaudet.edu)

Total Communication

- Used to develop spoken language through speech reading with some form of manual communication
- Usually involves some form of manual communication used in one therapy
- Expressive speech developed through a combination of hearing, sight, and tactile cues
- Focus is on the visual and the spoken language
- Usually involves some form of manual communication
- Use of sign language is not necessary in this approach

The further information about Total Communication, visit [gallaudet.edu](http://www.gallaudet.edu/gallaudet.edu)

Cued Speech

- Aided communication system of eight hand signals (used) that represent different sounds of speech
- Can be used while talking to make spoken language clear through the hearing aid
- This system allows the child to distinguish sounds that look the same on the lips
- As used system
- Focus is on the primary language to be spoken
- Usually involves some form of manual communication

The further information about Cued Speech, visit [gallaudet.edu](http://www.gallaudet.edu/gallaudet.edu)

TOOLS for SCHOOLS™



AB Makes It Simple for Schools

Additional FREE Resources

- www.hearingjourney.com
- www.thelisteningroom.com
- www.advancedbionics.com/bea
- www.advancedbioinics.com
 - Take free courses
 - Learn about products
 - Watch videos
 - Download materials and resources
 - Connect with others



HEARINGJOURNEY™



Resources & Support

For Educators, Therapists, Recipients, and Families

Online:

Live Chat:

[AdvancedBionics.com](https://www.advancedbionics.com)

Customer Care:

Speak with an audiologist:

Toll Free Phone: 1-877-829-0026

TTY: 1-800-678-3575

Email Questions:

CustomerService@AdvancedBionics.com

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