WIDEX PEDIATRICS
Hearing Healthcare Professionals Guidebook
For over 60 years, Widex has lead the hearing aid industry in producing solutions for all listeners. Our patented fitting rationale has been proven to provide the listener with more audibility for all sounds. No other hearing aid manufacturer delivers as much artifact-free sound to the wearer — enabling them to hear the softest sounds of speech, while maintaining an input dynamic range of 108 dB. Widex technology presents the most accurate reproduction of soft speech, normal conversation and loud inputs to the auditory system. This is why Widex is the best solution for children of all ages.
10 REASONS TO CHOOSE WIDEX HEARING AIDS FOR CHILDREN

1. Most accurate reproduction of all sound environments
WideX is the only manufacturer that utilizes 4 analog-to-digital (A/D) converters — accurately capturing the specifics of the sound environment from all inputs (front and back microphones, the T-Coil and 2.4 GHz BLE antennae). By utilizing additional A/D converters, WideX successfully preserves the integrity of all input sounds, allowing for a cleaner listening experience in all listening situations. All input levels from 5 dB to 113 dB SPL are captured in their purest form, without corrupting the input signal.

2. Audibility for soft speech
Preserving the full dynamic range of sound is a fundamental core principle of WideX signal processing. By using a variable speed compression system (primarily slow-acting with fast components), WideX maintains temporal and spectral characteristics of both soft and loud speech, making speech more comprehensible and recognizable to the wearer. WideX utilizes the lowest compression threshold in the industry ensuring that children have consistent access to soft speech sounds enabling the ability to learn to categorize speech sounds.

3. Binaural InterEar™ Communication
Binaural InterEar Communication provides instantaneous synchronization by communicating 21 times per second between hearing aids. The result is maintaining the Interaural Level Differences present in a normal functioning auditory system. This synchronization allows the brain access to a fuller, more complete listening experience, providing an opportunity to learn and recognize the naturalness of speech and adapt in various environments.

4. Extraordinary hearing in difficult listening environments
Real-Time InterEar Speech Enhancer
By assessing real-time acoustics and utilizing the Speech Intelligibility Index (SII), our Speech Enhancer algorithm automatically identifies the need for additional gain and reduction of noise. These adjustments are based on:
- an instantaneous analysis of the environment
- the child’s audiogram thresholds and configuration
- the goal to emphasize speech over noise

InterEar Speech Enhancer provides the wearer with the most accurate, comprehensive, and instantaneous binaural adjustments to their real-world sound environment by comparing the input between hearing aids. The acoustic environment is continuously analyzed, enabling the gain settings to be adjusted accordingly. In this way, the hearing aid works to preserve important speech audibility cues in noisy environments.

High Definition Locator
Incidental learning opportunities are very important for young children. Many studies have proven that they benefit from an improved signal-to-noise-ratio (SNR). When a directional system is used, it should minimize loss of audibility for sounds originating from the sides and back of the child. WideX’ High Definition Locator is a multi-channel, fully adaptive directional system with low frequency compensation. By focusing on speech in each individual channel while adapting to non-speech noise, the High Definition Locator is able to emphasize speech from all directions, eliminating the risk of missing important speech cues. Furthermore, WideX mimics the natural binaural directionality of normal hearing by automatically providing low frequency compensation for speech sounds.

5. Innovative tools for verification
WideX developed Compass™ GPS software to be highly accurate by utilizing embedded fitting and programming tools to supplement traditional verification methods. These include, but are not limited to, the Sensogram, SoundTracker, and SpeechTracker.

Sensogram — Developed by WideX, the Sensogram increases the accuracy of the hearing aid fitting by utilizing an in-situ measurement. The measured in-situ thresholds take into account the effect of the earmold/shell, the size of the individual ear canal and the hearing loss.

SoundTracker — SoundTracker shows a real-time analysis of the hearing aids by conducting a continual, instantaneous tracking of performance. SoundTracker measures the input at the hearing aid microphones, then adds the natural amplification of the ear canal and insertion gain to display the real-time output at the eardrum. This provides a real-time display of the hearing aid, as worn on the child. SoundTracker then displays a real-time simulation of output in relation to the in-situ threshold and predicted UCLs of the child. Output can be viewed in dB HL or dB SPL. This is all done without any equipment other than the hearing aid and the programming device.

SpeechTracker — SpeechTracker displays the hearing aid performance over time by showing the average output for continuous input signals (speech, speech in noise and/or noise only). This view gives a clear indication of how much gain the hearing aid provides the hearing aid wearer.
**Consistent and reliable amplification – best battery life**

Widex offers the lowest current drain in the industry across all product styles and price points, ensuring reliability and consistency of signal processing and advanced features.

**Flexibility for all hearing loss configurations**

Widex is committed to producing quality hearing aids to meet the needs of all hearing-impaired individuals. From our innovative RIC/RITE hearing aids to our sleek and small FASHION solutions, the Widex pediatric portfolio incorporates features to address challenging hearing loss configurations from mild to profound in various environments.

**Audibility Extender: Linear Frequency Transposition**

As a pioneer of frequency transposition technology, Widex continues to revolutionize the industry by offering multiple frequency lowering strategies and modification abilities to best meet the audiological needs of patients with severe to profound hearing losses. Soft high frequency audibility is sometimes not possible when the audiometric configuration is precipitous or when the hearing loss in the high frequencies is profound. The Widex Audibility Extender is a unique application of frequency lowering. By utilizing linear frequency transposition, Widex can enable children with precipitous high frequency hearing loss to have access to soft high frequency speech sounds.

**Commitment to innovation and advanced technology**

Widex' vision is to give children unlimited access to a world of sounds by providing perfect hearing. To do this, Widex produces some of the best and most advanced digital hearing aids in the industry. Widex values can be captured in five concepts:

- to put hearing impaired people first
- to be reliable
- to develop digital hearing aids with passion
- to cherish industry and team spirit
- to be pioneers

Widex is constantly striving to meet and exceed these values every day. With the highest possible IP 68 rating for durability, a WindMade™ headquarters in Denmark that is powered by wind energy, and the ability to capture more sound than any other hearing aid available, Widex continues to push boundaries to be the best choice for patients.

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Flexibile Fitting and Fine-Tuning

Compass™ GPS fitting and fine-tuning software is designed to offer extreme flexibility in adjusting hearing aid features and settings. By allowing for 1 dB gain adjustments at three input levels (soft, normal and loud) in all available channels per technology level, precise frequency shaping can be achieved. Customized compression characteristics, noise management, speech enhancement, and directional variations offer the hearing aid wearer an exacting prescriptive formula for his/her individual hearing loss.

More connected than any other hearing aid

Widex unites our leading-edge sound with full wireless capability so all wearers stay connected to the world around them. Widex TRI-LINK™ technology instantly connects our hearing aids to an iPhone®, T-coils and the full range of DEX wireless listening accessories.

WidexLink™ — our proprietary wireless technology — is designed specifically for the demands of hearing aids. It uses less power, is extremely fast and ensures minimal to no delay or drop-out of sound. With WidexLink, the hearing aids are constantly in communication with each other. Our DEX assistive listening devices use WidexLink to transmit sound between our hearing aids and other sound generating accessories. The full-range of DEX devices allow for wireless communication — while watching television, listening to music or talking on the phone. The FM+DEX utilizes a single FM receiver to provide binaural FM streaming to all styles and price points of Widex wireless hearing aids while maintaining consistent performance without excessive battery drain.

The Widex 2.4 GHz made-for-iPhone® Bluetooth solution offers both a speech and music template to enhance streaming phone calls and music directly from an iPhone to both hearing aids as clearly as possible. In addition, the Widex app provides parents and older children full control and flexibility for an active childhood.

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* Select styles
THE WIDEX FOR CHILDREN PORTFOLIO

Widex is a world leader in the design and production of high definition digital hearing aid technology. And we believe that pediatric hearing solutions are imperative for the health and well-being of our children. Every child’s hearing impairment is individual and requires unique solutions and personalized flexibility. That is why we remain committed to creating advanced technology and innovative design while maintaining the most accurate, real-world hearing solutions.

Without compromise. For all ages.
## The Widex Pediatric Product Portfolio

<table>
<thead>
<tr>
<th></th>
<th>BEYOND FUSION RIC</th>
<th>UNIQUE FUSION RIC</th>
<th>UNIQUE PASSION RIC</th>
<th>UNIQUE FASHION MINI BTE</th>
<th>UNIQUE FASHION BTE</th>
<th>UNIQUE FASHION POWER BTE</th>
<th>BABY RIC</th>
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<tr>
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<td>312</td>
<td>10</td>
<td>312</td>
<td>312</td>
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<tr>
<td>Telecoil</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
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<tr>
<td>FM Capability</td>
<td>FM+DEX</td>
<td>FM+DEX</td>
<td>FM+DEX</td>
<td>FM+DEX</td>
<td>FM+DEX</td>
<td>FM+DEX</td>
<td>FM+DEX</td>
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<tr>
<td>CROS Compatible</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
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<tr>
<td>Rechargeable Compatible</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
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<tr>
<td>On Board Controls</td>
<td>Push button configurable for program and/or preference (volume) control</td>
<td>Push button configurable for program and/or preference (volume) control</td>
<td>NO</td>
<td>Push button configurable for program and/or preference (volume) control</td>
<td>Separate preference control (volume) and program buttons</td>
<td>Separate preference control (volume) and program buttons</td>
<td>NO</td>
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<tr>
<td>Wireless Capability</td>
<td>• Made-for-iPhone® 2.4 GHz connection • DEX devices</td>
<td>DEX devices</td>
<td>DEX devices</td>
<td>DEX devices</td>
<td>DEX devices</td>
<td>DEX devices</td>
<td>NO</td>
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<tr>
<td>IP Rating</td>
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<td>IPS8</td>
<td>IPS8</td>
<td>IPS8</td>
<td>IPS8</td>
<td>IPS8</td>
<td>IPS8</td>
</tr>
<tr>
<td>Pediatric Options</td>
<td>• Tamper-resistant door • Full color portfolio</td>
<td>• Tamper-resistant door • Full color portfolio</td>
<td>• Tamper-resistant door • Full color portfolio</td>
<td>• Battery door can be modified to be more child-friendly by special request (Available in 10 colors)</td>
<td>• Tamper-resistant door • Full color portfolio</td>
<td>• Tamper-resistant door • Available in 10 colors</td>
<td>• Extra small (-2) wire length options • Tamper-resistant door • Pearl Pink and Pearl Blue options</td>
</tr>
<tr>
<td>Fitting Range</td>
<td>Minimal to severe-to profound hearing loss</td>
<td>Minimal to severe-to profound hearing loss</td>
<td>Minimal to moderate-severe hearing loss</td>
<td>Minimal to severe hearing loss</td>
<td>Minimal to severe hearing loss</td>
<td>Moderate to severely profound hearing loss</td>
<td>Minimal to moderate-severe hearing loss</td>
</tr>
</tbody>
</table>

Contact your local Widex team or www.widexpro.com for information on Widex SUPER POWER.
### Color Options

<table>
<thead>
<tr>
<th>Color Code</th>
<th>Color Name</th>
<th>Hex Code</th>
<th>Base Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>021</td>
<td>Warm Beige</td>
<td></td>
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<tr>
<td>081</td>
<td>Tan Silk</td>
<td></td>
<td></td>
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<tr>
<td>072</td>
<td>Winter Silver</td>
<td></td>
<td></td>
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<tr>
<td>073</td>
<td>Titan Grey</td>
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<tr>
<td>074</td>
<td>Midnight Black</td>
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<tr>
<td>071</td>
<td>Cappuccino Brown</td>
<td></td>
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<tr>
<td>070</td>
<td>Copper Brown</td>
<td></td>
<td></td>
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<tr>
<td>069</td>
<td>Summer Gold</td>
<td></td>
<td></td>
</tr>
<tr>
<td>078</td>
<td>Mediterranean Turquoise</td>
<td></td>
<td></td>
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<tr>
<td>077</td>
<td>Shocking Pink</td>
<td></td>
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</tr>
<tr>
<td>076</td>
<td>Sporty Red</td>
<td></td>
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<tr>
<td>075</td>
<td>Lime Green</td>
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</tr>
<tr>
<td>090</td>
<td>Metallic Blue</td>
<td></td>
<td></td>
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<tr>
<td>068</td>
<td>Pearl White</td>
<td></td>
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<tr>
<td>112</td>
<td>Silver White</td>
<td></td>
<td></td>
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<tr>
<td>085</td>
<td>Pearl Blue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>084</td>
<td>Pearl Pink</td>
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</tbody>
</table>

### Pediatric Kits

All Pediatric Kits include the Widex hearing aid maintenance kit and an age-appropriate plush toy or back pack. Kits are selected automatically based on age unless a specific kit is requested.

- **DKF72 — BABY Kit**
  Includes maintenance kit, plush toy and hearing aid clip*

- **DKF73 — Kids Kit, Age 6 and Under**
  Includes maintenance kit, plush toy and hearing aid clip*

- **DKF74 — Kids Kit, Age 7 to 12**
  Includes maintenance kit, plush toy and hearing aid clip*

- **DKF75 — Kids Kit, Age 13 to 18**
  Includes maintenance kit and back pack*

* Kit appearance and plush toy may vary from images

### Tamper-Resistant Doors

- **UNIQUE FASHION**
- **UNIQUE FASHION POWER**
- **UNIQUE FUSION**
- **BEYOND FUSION2**
- **UNIQUE PASSION**
- **BABY440**

- Tamper-resistant door requires a tool (as illustrated) to open.
- Tamper-resistant door tool (3 060 5700 0BA) available upon order.
- Recommended factory installation. Request at time of hearing aid order.

* **BEYOND FUSION2** tamper-resistant door only available in brown, black and white base colors
** **PASSION tamper-resistant door only available in white
Connectivity

Widex offers a full range of connectivity options to keep pediatrics, teens, and young adults connected at all times.

**BEYOND Made-for-iPhone Connection and App Access**

Widex BEYOND™ hearing aids offer direct streaming for the iPhone® and iPad®. Through TRI-LINK™ technology, wireless connectivity has never been easier or more flexible for parents and older children, teens, and young adults. TRI-LINK technology provides:

1. Pure link 2.4 GHz made-for-iPhone connection
2. WidexLink™ for full wireless accessory connectivity and InterEar™ communication
3. Telecoil access for phones and loop systems

**Top 3 Pediatric Features of the Widex BEYOND App**

- **Sound Direction** for the car, classroom or at home to focus on a specific sound source location in difficult to hear situations.
- **Ability to create personal programs.** When keeping up with the demanding life of a child or teenager, this feature allows flexibility to create easy access to settings for specific needs. Simply make the fine tuning changes to the program through the app and save as a new favorite program.
- **Find My Hearing Aids** helps patients find lost hearing aids through a map view to find the general location of the hearing aid and then a search view to find the more precise location. This is ideal for finding hearing aids on the playground or at a friend’s house.
**Connectivity (Continued)**

**DEX Accessories**

With Widex for children hearing technology, connectivity doesn’t stop with an app. Our range of DEX communication solutions keeps wearers connected to a world of sounds.

<table>
<thead>
<tr>
<th><strong>FM+DEX</strong></th>
<th><strong>UNI-DEX</strong></th>
<th><strong>RC-DEX</strong></th>
<th><strong>COM-DEX</strong></th>
<th><strong>TV-DEX</strong></th>
<th><strong>PHONE-DEX</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FOR FLEXIBLE STREAMING</strong></td>
<td><strong>FOR PLUG AND PLAY MOBILE PHONE USE</strong></td>
<td><strong>REMOTE CONTROL</strong></td>
<td><strong>FOR HANDS-FREE STREAMING</strong></td>
<td><strong>FOR ENJOYING TV</strong></td>
<td><strong>FOR EASY LAND LINE USE</strong></td>
</tr>
<tr>
<td>- A flexible device for FM streaming</td>
<td>- Connects to all devices with 3.5 mm jack output</td>
<td>- Program toggle</td>
<td>- Convenient hands-free solution</td>
<td>- High quality audio</td>
<td>- Range to base up to 900 ft.</td>
</tr>
<tr>
<td>- Direct audio input connection</td>
<td>- Streams automatically</td>
<td>- Volume up/down</td>
<td>- Compatible with most mobile phones</td>
<td>- Ultra-low delay “EchoFree™”</td>
<td>- Phone book for 20 numbers</td>
</tr>
<tr>
<td>- T-coil hearing loop connection</td>
<td>- Built-in microphone for hands-free talking</td>
<td>- Key ring attachment</td>
<td>- Stream audio from most Bluetooth devices</td>
<td>- Inputs for both TV and HIFI systems</td>
<td>- 100 hours of standby time and 10 hours call time on battery</td>
</tr>
<tr>
<td>- Small and easy to handle</td>
<td>- Battery life 40 hours when streaming</td>
<td>- Approximately 12 months of battery life</td>
<td>- Available in three stylish colors</td>
<td>- Room Off feature</td>
<td>- Can also be used as a regular phone — a phone for the whole family</td>
</tr>
<tr>
<td>- Antenna range up to 30 m</td>
<td>- Battery recharges in 1 hour</td>
<td>- Lock switch</td>
<td>- 8 hours streaming time</td>
<td>- 10 hours non-stop capacity</td>
<td>- Ideal for attaching to gaming systems to keep the surrounding area free of the sounds from the games</td>
</tr>
<tr>
<td>- 10 hours battery capacity</td>
<td>- Room Off feature</td>
<td>- Built-in microphone for hands-free talking</td>
<td>- Control your hearing aids via an app</td>
<td>- Rechargeable using the TV-Base</td>
<td>- Ideal for attaching to gaming systems to keep the surrounding area free of the sounds from the games</td>
</tr>
<tr>
<td>- Room Off feature</td>
<td></td>
<td>- Room Off feature</td>
<td>- Room Off feature</td>
<td></td>
<td>- Ideal for attaching to gaming systems to keep the surrounding area free of the sounds from the games</td>
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</table>

**Ideal for attaching to gaming systems to keep the surrounding area free of the sounds from the games**
Widex Processing for Pediatrics meets the most recent 2013 AAA Pediatric Guidelines*

<table>
<thead>
<tr>
<th>LOW DISTORTION</th>
<th>AUDIBILITY</th>
<th>IMPROVING SNR</th>
<th>FREQUENCY LOWERING</th>
<th>CONSISTENT USE</th>
<th>FREQUENCY SHAPING</th>
</tr>
</thead>
<tbody>
<tr>
<td>“The system should avoid unnecessary distortion”</td>
<td>“The system should employ amplitude compression that offers the flexibility to restore audibility for low level inputs while maintaining comfort for high level inputs.”</td>
<td>“Hearing aids that automatically switch between directional and omnidirectional modes depending on which mode produces the signal with the greater apparent signal-to-noise ratio should be considered.”</td>
<td>“There is evidence to suggest that frequency lowering may improve detection and recognition of high-frequency consonants for children with high-frequency hearing loss...”</td>
<td>“Flexibility and ease of connection to external devices, and physical comfort such that consistent, daily use is possible.”</td>
<td>“System should allow sufficient frequency shaping to meet prescriptive requirements of the hearing loss configurations.”</td>
</tr>
<tr>
<td>• High input linear dynamic range: 113 dB SPL (dynamic range of 108 dB) in all levels and styles of BEYOND and UNIQUE hearing aids provide more natural quality for all input levels</td>
<td>• Low knee point for soft sounds: 0 dB-20 dB HL possible to provide the best access to soft sounds</td>
<td>• Widex multi-channel fully adaptive directional microphone system</td>
<td>• Widex noise management systems with integrated safety features to ensure audibility</td>
<td>• BEYOND offers made-for-iPhone® connection and app control</td>
<td>• Up to 15 independent processing channels</td>
</tr>
<tr>
<td>• Primarily slow acting compression to preserve temporal cues for better clarity</td>
<td>• Extended high frequency bandwidths</td>
<td>• Only operates at high input levels</td>
<td>• Flexible, requiring no switching</td>
<td>• BEYOND and UNIQUE offer full range of wireless accessories</td>
<td></td>
</tr>
<tr>
<td>• High sampling frequency: 33.1 kHz in BEYOND and UNIQUE to preserve frequency information</td>
<td>• Linear frequency transposition: Audibility Extender</td>
<td>• New mode has distinct directional characteristics (440/330/220)</td>
<td>• Default is off, can be applied to all or specific programs when needed</td>
<td>• Datalogging to monitor use</td>
<td>• “Use feedback cancellation (which does not reduce the gain below the value that applies in the absence of feedback oscillation) in preference to feedback systems that operate by reducing gain...”</td>
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<td>★ ★ ★ ★</td>
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* 2013 American Academy of Audiology Clinical Practice Guidelines: Pediatric Amplification
Pediatric Verification
Using DSL 5.0 Pediatric Fitting Rationale

Suggested protocol for on the ear verification of Widex hearing instruments for or with pediatric patients:

1. Ensure the following information is properly entered into both Widex Compass™ GPS fitting software and the verification equipment:
   - Age
   - Transducer used
   - RECD values
   - If you have not performed RECD, ensure that, “predicted” or, “average” is selected. RECD values will only need to be entered into the verification software.

2. Because the ear canal length of children ages 2-12 ranges from 20-25 mm, it is important to begin by running an unaided gain measurement to ensure proper probe tube placement:
   a. Measure the probe tube and insert it into the unaided ear
   b. Present either white or pink noise at a 65 dB SPL level for 10-15 seconds
   c. Proper probe tube placement should look similar to the graph above. If the probe tube is not in far enough, a notch will appear between 4-6 K Hz that will drag the resonance line below the 50 dB SPL mark.

3. Once proper probe tube length is ensured, insert the hearing aids and close the battery doors.

4. Set the verification system to DSL 5.0 pediatric fitting rationale if the hearing aids were programmed in Compass GPS with the Widex fitting rationale or DSL 5.0 pediatric fitting rationale. (Change to NAL-NL2 if NAL-NL2 was selected in Compass GPS fitting.)

5. Measure soft, moderate, and loud sounds by presenting speech stimuli at 55 dB, 65 dB, and 80 dB SPL, accordingly. The recommended presentation length is 10-15 seconds, depending on the selected stimuli.

6. Perform fine tuning within Compass GPS until the hearing aid measures within 5 dB or less of the DSL 5.0 target.
Suggested protocol for coupler based verification of Widex hearing aids:

1. Ensure the following information is properly entered into both Compass GPS fitting software and the verification equipment:
   - Age
   - Transducer used
   - RECD values

   If you have not performed RECD, ensure that, “predicted” or, “average” is selected. RECD values will only need to be entered into the verification software.

2. Follow your verification system’s guide to ensure the hearing aid is properly positioned within the test box.

3. Set the verification system to DSL 5.0 pediatric fitting rationale if the hearing aids were programmed in Compass GPS with the Widex fitting rationale or DSL 5.0 pediatric fitting rationale. (Change to NAL-NL2 if NAL-NL2 was selected in Compass GPS fitting.)

4. Measure soft, moderate, and loud sounds by presenting speech stimuli at 55 dB, 65 dB, and 80 dB SPL accordingly. The recommended presentation length is 10-15 seconds, depending on stimuli.

5. Perform fine tuning within Compass GPS until the hearing aid measures within 5 dB or less of the DSL 5.0 target.

For more information on verification and validation tools in Compass GPS, contact your local Widex regional team.

For a peer-reviewed overview of the Widex SoundTracker relative to real-ear analysis:

For more information on probe microphone measurements with Widex hearing aids, see: http://www.hearingreview.com/2017/07/match-target-get-accurate-first-fits/