



ReSound GN

ReSound Up Smart™

# ReSound Aventa® 3.10 Fitting guide

This fitting guide gives an overview of how to fit ReSound Up Smart™ wireless hearing instruments with ReSound Aventa 3.10 and Noah using the pediatric fitting mode. A ReSound Up Smart 977-DLW wireless binaural fitting is assumed here. ReSound Aventa 3.10 fitting software supports all ReSound instruments built on the ReSound Range™, Range™ II and SmartRange chips.

Enter the child's details, including date of birth, with the audiometric data into Noah. ReSound Aventa will default to the appropriate pediatric fitting mode based on the child's date of birth.

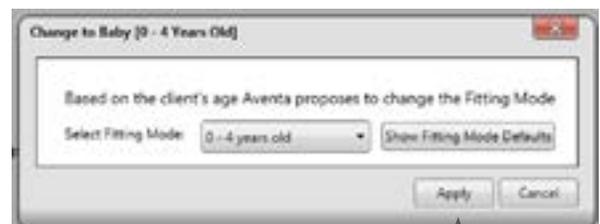
## Getting started

A dialog will ask if you wish to change the fitting mode to the age-appropriate ReSound Aventa pediatric fitting mode.

1. If the developmental age of the child differs from the chronological age, go to Fitting Mode and select the appropriate mode from the drop down menu.
2. Click Apply to activate the age-related settings and close the pop-up.



Select appropriate fitting mode



Click Apply

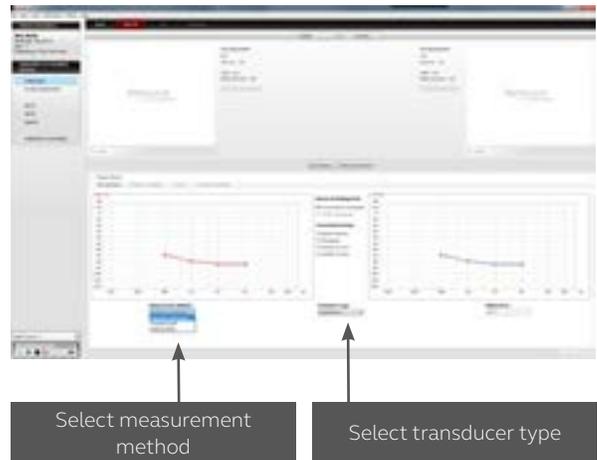
## Audiogram, RECD and REUG specifications

Click Pre-Fit. The audiogram and age-appropriate RECD and REUG data can be viewed in the Pre-Fit screen. Enter how the audiogram has been measured; in the Measurement method drop down select the appropriate measurement method used to obtain the threshold:

- Auditory brainstem response (ABR)
- ASSR or Other
- Puretone

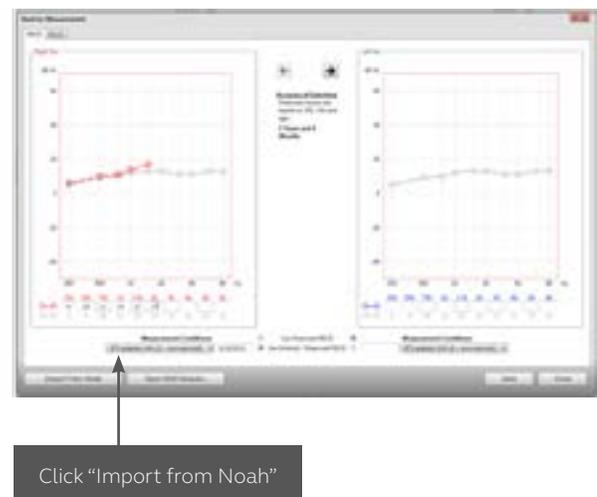
In the Transducer Type drop down select the appropriate transducer type used to obtain the threshold.

See “Useful information section” for more information regarding obtained ABR thresholds.



## RECD and REUG

RECD and REUG will by default be “Predicted,” meaning that age-appropriate averages are used. If measured values are available click Open Entry/Measurement module. Measured values saved in Noah may be incorporated by choosing “Import from Noah” or by clicking on the graph to manually enter data. Any changes saved are used to calculate new targets.



## Getting started

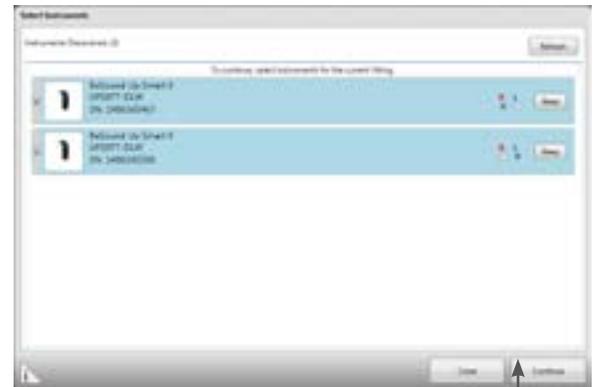
Prior to connecting to ReSound Aventa 3:

1. Attach the patient's earmold to the hearing instruments or place the hearing aid in the coupler.
2. ReSound devices require a battery when fitting. Make sure the battery is fresh and that it is inserted correctly. ReSound Up Smart 977 devices use a size 13 battery.
3. a) For wireless fittings, insert Airlink™ or Airlink2 in a USB slot on the fitting PC and wait for the message that new hardware has been found. Then open ReSound Aventa 3.  
b) For wired fittings, ensure that the programming interface (Speedlink, Hi-PRO or NOAHlink) is connected to the PC before launching ReSound Aventa 3.
4. Launch ReSound Aventa 3. For new fittings, ReSound Aventa 3 begins in the Start screen, where the patient's experience with amplification can be selected and connection to hearing instruments can be established.



Remove the stickers from the batteries to activate them. Wait for 2 minutes for best results. Insert a battery into each hearing instrument, close the battery door and click “Connect” in the center of the top ribbon of the ReSound Aventa 3 Start screen.

The hearing instruments will appear in the “Select Instruments” section. When all hearing instruments to be programmed have been discovered, click on “Beep” to identify each hearing instrument, and assign it as a right or left device. When each hearing instrument has been assigned, click “Continue.”



Assign hearing instruments to right and left ear

Play a beep to determine right from left hearing instrument

Assign hearing instrument to right or left ear

A window will appear showing the status of the connection, and will alert you to recommendations for venting. Choose to either keep the “Current” configuration or the “Recommended” configuration. Click “Continue.”



A window will alert you to the capability of the hearing instrument to exceed 132 dB SPL. Click “Continue.”



Next, a window will appear to prompt calibrating DFS Ultra™ II. Click “Calibrate” to begin the calibration procedure. The progress of the calibration will be shown. Click “Continue” after calibration is completed.

It is strongly recommended to always run the calibration at the start of a new fitting, or if venting (including dome changes), receiver, or earmold changes are made. This is because any such changes affect the feedback path and thus the performance of DFS Ultra™ II. Counsel parents that a brief buzzing sound will be presented to each ear and that the child should sit quietly.



At this point, you may pair Wireless accessories by clicking “Wireless Accessories,” or proceed to the fitting by clicking “Continue.” In this guide “Continue” is selected.



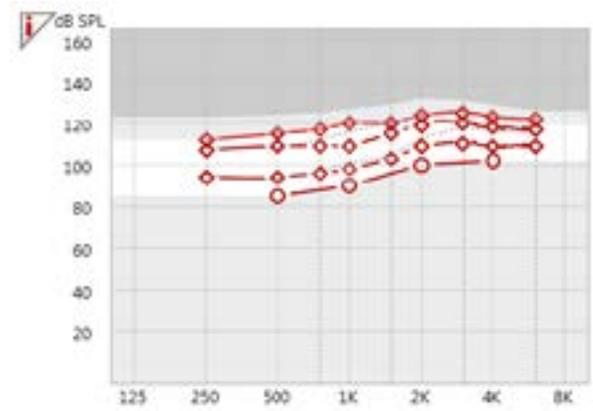
## Fitting the hearing instruments

When the Fit screen is displayed, the hearing instrument gains and MPOs can be adjusted, and advanced features can be accessed.



## Output view

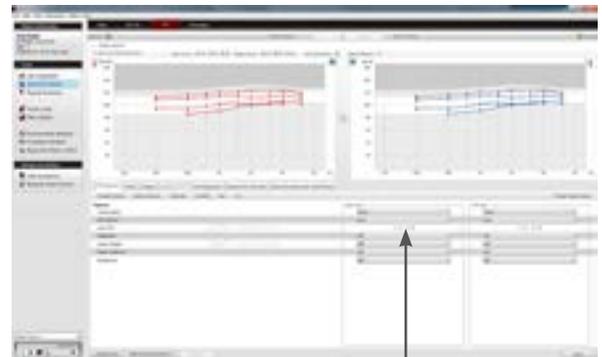
The Fit screen defaults to an output view. The output view shows the hearing threshold levels converted to dB SPL, prescriptive targets for up to 3 input levels and MPO, as well as the amplified speech spectrum.



## DFS Ultra™ II

DFS Ultra II is ReSound's anti feedback system with built in WhistelControl™.

The DFS Ultra is recommended calibrated in all fittings.



Auto DFS settings are grayed out when DFS Ultra II has already been calibrated

## Program management

The Program tabs are located between the graph and the gain handles. This is where programs can be changed, compared, recalculated, autorelated, coupled, added or removed.

Removing and reordering programs is done by clicking “Manage programs” on the Program handling toolbar.



Program handling toolbar

## Manage program names

Program names that will appear on the user's iPhone or accessory may be personalized by clicking "Manage Remote Control Program Names." Program names must be at least three characters, and programs may not share the same name. Program names longer than ten characters may be truncated. If changes are made, click "Save."



## Gain adjustment

ReSound Aventa® 3.10 includes three input level controls at 50, 65 and 80 dB SPL. This allows for greater flexibility for fine tuning gains. By default, ReSound Aventa® calculates the gain settings for the particular audiogram using the DSL v5 fitting rationale. Other fitting prescriptions can be selected from the "Fitting" menu. To fine-tune a program, adjust the gain manually by using the gain handles or by using the ReSound Aventa® Guide, where fine-tuning solutions to patient complaints can be automatically applied.



Once fine tuning is complete, the relative gain changes can be applied to any or all other programs by clicking the "Autorelate" button in the program handling tool bar beneath the program tabs.

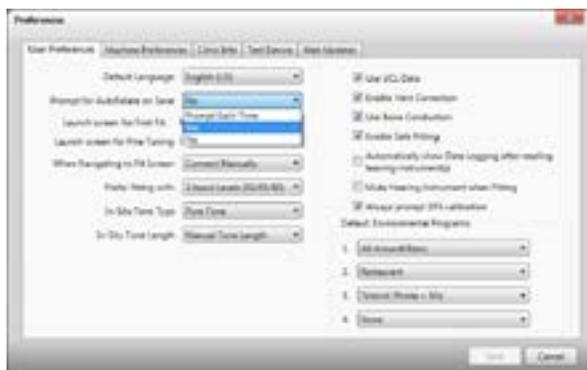
Select which programs to autorelate to by checking the boxes. You may also choose whether to apply changes made to MPO or Sound Shaper for each program.

Autorelate gain changes to one or both hearing instrument(s)

## Helpful hint about autorelating gains

*To ensure gains are autorelated appropriately at the end of the fitting, it may be helpful to establish a preference to prompt for autorelating when the fitting is saved. In the main menu, select "Edit" and then "Preferences."*

*For the entry "Prompt for Autorelate on Save," select "Prompt Each Time" and click "Save." This will prompt you to autorelate any gain changes you may have made to one program to any other program before completing the save process.*



## Beeps and volume control

Click on “Beeps and Volume Control” in the “Tools” section on the Fit screen. A window will appear with three tabs: “Standard Beeps,” “Manual Controls” and “Visual Indication LED.” In the Standard Beeps tab, all the acoustic indicators can be demonstrated, changed, added and removed. All beeps are disabled for age group 0-4 and 5-8.



The “Manual Controls” tab contains options such as enabling and disabling the program button and adjusting the volume control range. All controls are disabled for age group 0-4 and 5-8.



Program Switch and Manual VC can be enabled and disabled according to individual preferences

## LED demonstration

In the “Visual Indicator LED” tab, the different blinking patterns can be demonstrated. Press the play button arrows to demonstrate the various blink patterns on the connected instruments.



Click the arrow to demonstrate the blinking LED patterns on the hearing instrument

## Saving and completing the fitting

Once the fitting is complete, click “Save” at the bottom right of the Fit or Summary screens. Once the data is saved to the instruments and to the database, options to “Exit Aventa” or “Continue Fitting” appear in the lower right corner of the window. After the Save process, it is safe to disconnect the hearing instrument(s). If any changes are made after the save process, it will be necessary to re-save the data before disconnecting.



## Summary screen

The Summary screen allows the clinician to print information for the patient, a third party, or for chart notes. Notes can be entered, saved and printed as needed.



## Useful information

### Pediatric preferences

The Pediatric fitting mode defaults are evidence-based and depend on the child's age.

To customize the Pediatric defaults, choose “Pediatric preferences” from the “Edit” menu. Pediatric preferences show the default *Fitting prescription*, *Program settings*, *Program Environments* and *Hearing Instrument Options* appropriate for the three age groups. It is possible to change the default settings in the drop-down menus. Remember to save changes before closing the window.

The defaults will be applied depending on the features available within the selected hearing instrument model.





People with hearing loss are at the heart of everything we do. Our award-winning ReSound Smart Hearing aids help people feel more involved, connected and in control. In an ever-smarter world, we think big and challenge the norm so that we can transform lives through the power of sound. Available exclusively through audiologists and hearing care professionals.

ReSound® is part of The GN Group - pioneering great sound from world-leading ReSound hearing aids to Jabra office headsets and sports headphones. Founded in 1869, employing over 5,000 people, and listed on NSDAQ OMX Copenhagen, GN makes life sound better.

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**Manufacturer according to FDA:**

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**Manufacturer according to Health Canada:**

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**ReSound GN**

