

Junior Mode Fitting Guide

This guide contains details on using and/or fitting with Junior mode available in Phonak Target fitting software. It aims to provide a detailed introduction to Phonak Target Junior mode for hearing care professionals who fit children of all ages.

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Introduction

For children with any level of hearing loss, it is essential to have access to all speech cues in both quiet and noisy environments in order to develop age-appropriate speech and language. The combination of the dedicated pediatric hearing aid family, Phonak Sky™, with Roger™ technology, assists in overcoming even the most challenging listening situations.

This guide provides an overview of the Junior mode settings, information regarding settings for pediatric hearing aids including Roger technology for children, and general navigation to assist in the fitting workflow for pediatric fittings.

Useful resources

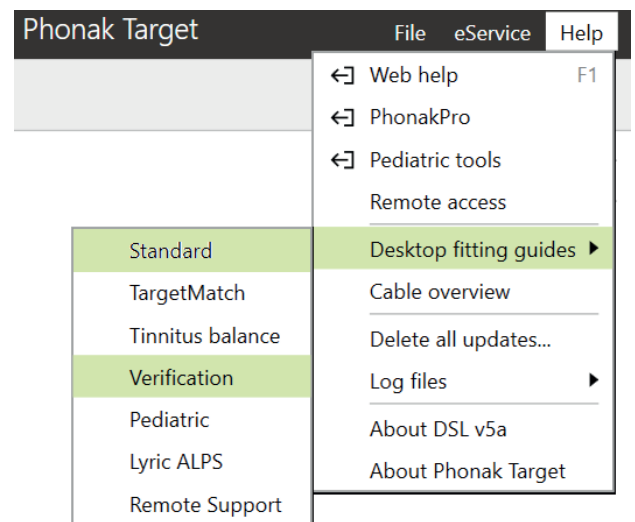
For additional details on programming and fitting Phonak hearing aids, please refer to the following fitting guides found in the help section of Phonak Target.

Standard

- Connecting hearing aids
- Accessories
- Feedback and real ear test
- AudiogramDirect
- SoundRecover2
 - Additional information can be found in Best Practice Protocol SoundRecover2 Pediatric Verification, Phonak (2016).

Verification

- RECD
- Verifying fittings



Customizable Junior mode defaults

Target offers separate standard defaults for DSL and NAL in Junior mode for age ranges 0-3, 4-8, 9-12 and 13-18 years. These default settings are endorsed by the Phonak Pediatric Advisory Board and National Acoustics Laboratory. They provide a starting point for flexible and efficient pediatric fittings.

A summary of the default settings can be found in the section labeled Overview of Junior mode defaults at the end of this document.

To view the defaults, go to [\[Setup\]](#), click on [\[Junior mode\]](#).

Under [\[Defaults\]](#) there are topics [\[Fitting formula / Program manager / Program options / Device options / DataLogging\]](#) that can be accessed.

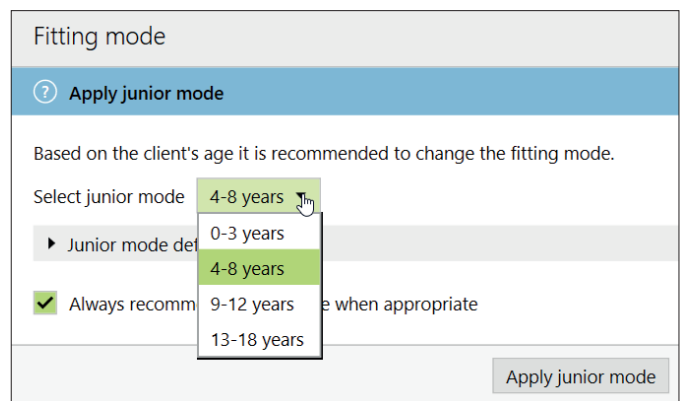
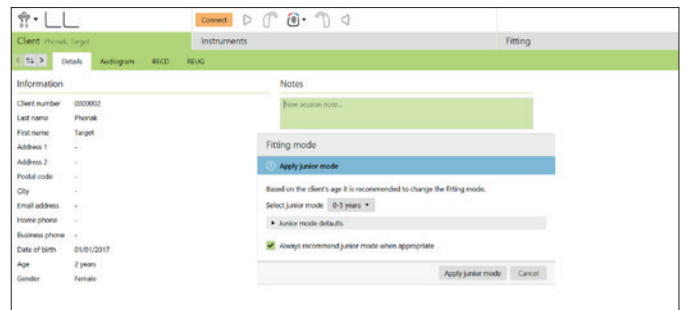
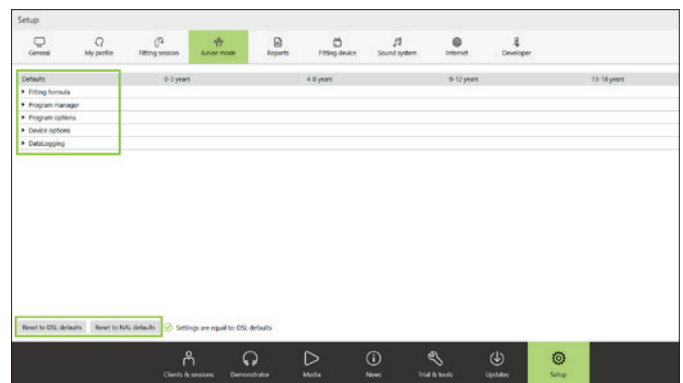
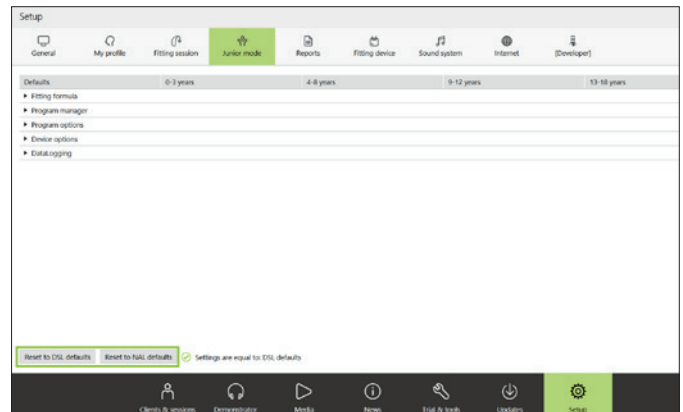
A drop down menu for each topic enables you to personalize settings for all future pediatric fittings within any of the four age groups to suit your personal fitting philosophy.

To restore the original defaults, click on [\[Reset to DSL defaults\]](#) or [\[Reset to NAL defaults\]](#).

Entering the date of birth into NOAH or standalone software will automatically trigger a Junior mode fitting prompt for children between the ages 0-18 years.

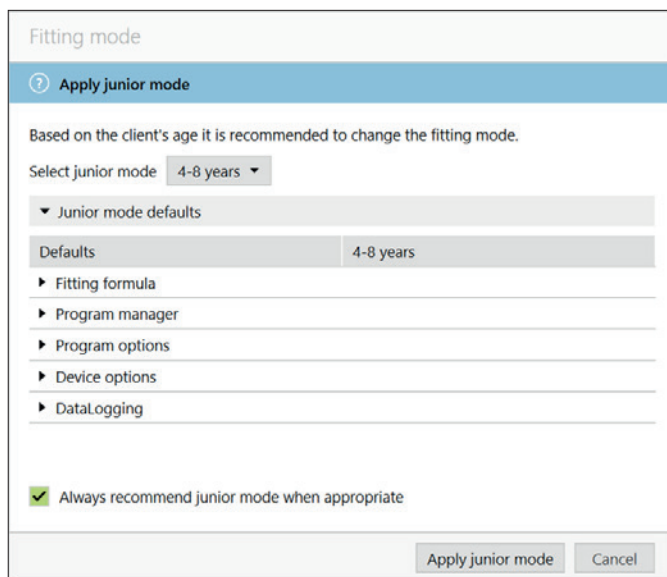
The settings for Junior mode can also be personalized for each child.

You can select the appropriate age range for the child if you believe the behavioral/physical age is different from the chronological default age.



Or, if required, you can adjust the settings in each of the topics to suit the child's needs.

Click [\[Apply Junior mode\]](#) to continue.



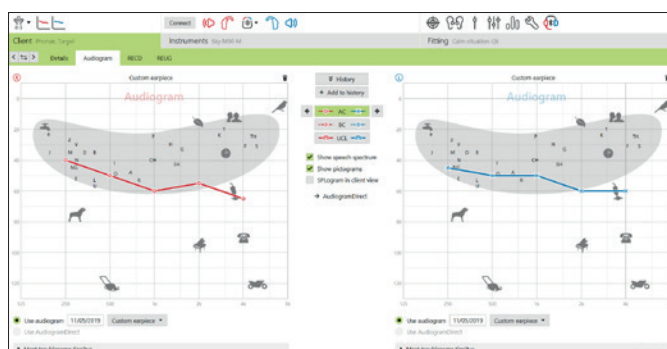
Client

Audiogram

When using NOAH or standalone software, the audiogram can be viewed by clicking on [\[Client\]](#) and then [\[Audiogram\]](#).

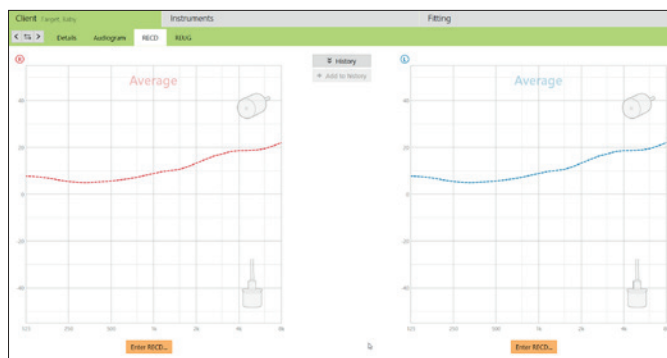
In NOAH, a history of all audiograms is visible by clicking on [\[History\]](#). For standalone, the audiogram can be added to the history manually by clicking on [\[+ Add to history\]](#).

The speech spectrum and sound samples can be layered over the audiogram to support or assist with counseling. Click on [\[Show speech spectrum\]](#) or [\[Show pictograms\]](#).



RECD

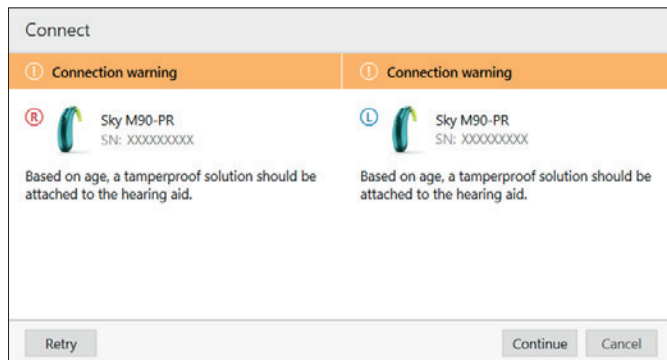
RECD values can be accessed via [\[Client\]](#) then [\[RECD\]](#).



Instruments

Connecting hearing aids

A notification to attach a tamperproof solution will appear for children between 0-3 years when hearing aids are initially connected. If the available hearing instrument does not have a tamperproof solution, a different notification will appear.



Acoustic parameters

The default acoustic parameters for individuals between 0-3 years of age are: hook, standard tubing, and occluded for all hearing losses.

To change acoustic parameters, click on [\[Instruments\]](#), then [\[Acoustic parameters\]](#).

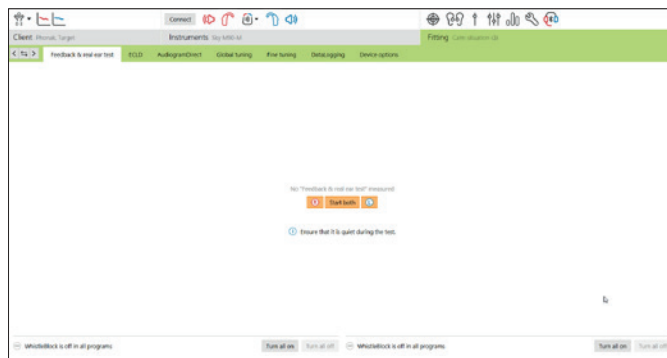


Fitting

Feedback & real ear test

Click on [\[Fitting\]](#) to access [\[Feedback & real ear test\]](#).

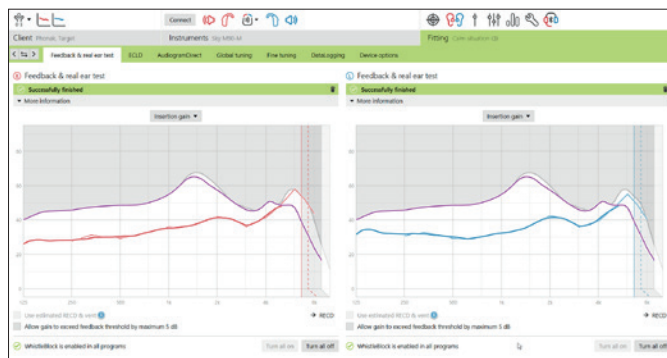
The feedback test can be run in both ears simultaneously, or one ear at a time. Click [\[R\]](#) / [\[Start both\]](#) / [\[L\]](#) to start the test.



Measured feedback results are displayed as a solid purple line.

The red/blue curves represent the available gain for a 50 dB speech input that can be viewed in real ear, 2cc or insertion gain.

Results can be discarded by clicking on the trash can and then repeated as needed.

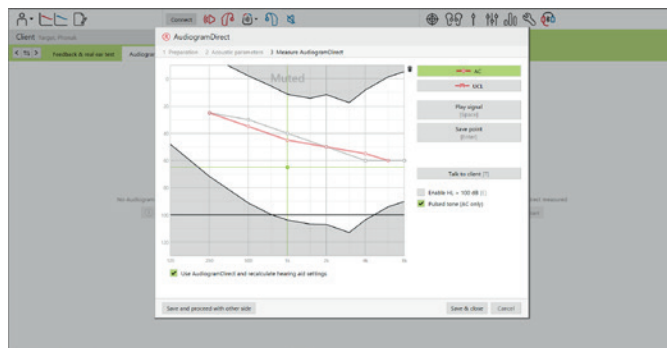


AudiogramDirect

AudiogramDirect can be used with older children to get an indication of the effect of the acoustic coupling.

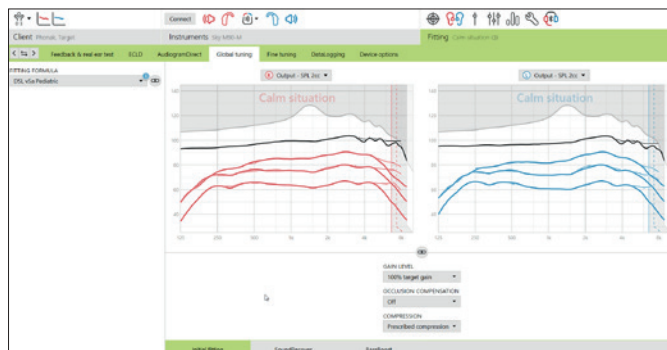
It does not replace diagnostic audiological assessments.

Click on [\[Fitting\]](#) > [\[AudiogramDirect\]](#).



Global tuning

Global tuning can be accessed via [\[Fitting\]](#) > [\[Global tuning\]](#). It can be used to change your fitting formula; however, Junior mode defaults already provide the rationale recommended by the advisory boards.



Fine tuning

Fine tuning can be accessed via [\[Fitting\]](#) > [\[Fine tuning\]](#).

Gain adjustments for the G50, G65, G80 curves and MPO can be made via [\[Gain & MPO\]](#).

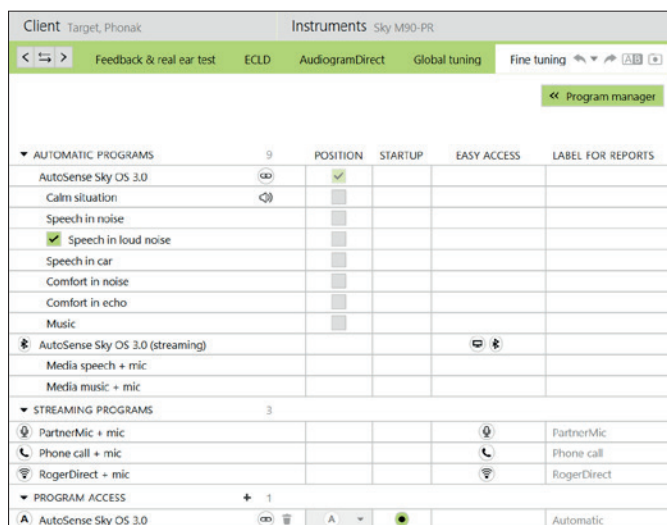


Program structure

[\[Program manager\]](#) is accessed through any of the tabs in the fine tuning screen. The startup program, program structure, and streaming programs can be customized here.

To add programs, click on [\[+ Add programs...\]](#).

The startup program for both DSL and NAL fittings (0-18 years) is [\[AutoSense Sky OS\]](#).



Verification assistant

The following summarizes the steps for using Verification assistant within Phonak Target as there are a variety of variables such as compression, frequency lowering and noise management that can impact verification of gain and MPO settings.

Verification assistant can be accessed via [\[Fine tuning\]](#) > [\[Gain & MPO\]](#) > [\[Verification assistant\]](#). The assistant will then guide you through a series of steps.



SoundRecover2

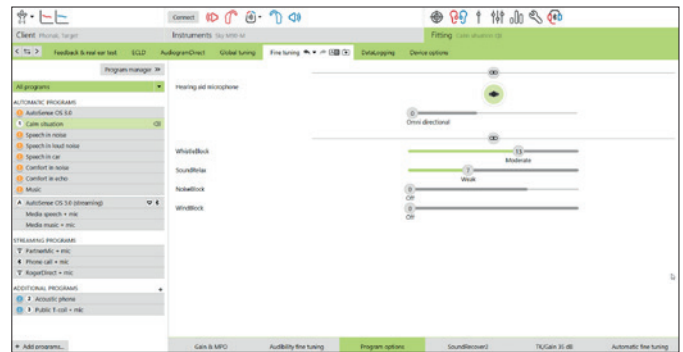
To adjust SoundRecover2, click on [\[SoundRecover2\]](#) to allow for individual fine tuning adjustments for Audibility and Distinction and, if required, Clarity and Comfort.

For further information on verifying SoundRecover2, refer to: Best Practice Protocol SoundRecover2 Pediatric Verification, Phonak (2016).



Program options

Features such as NoiseBlock, WindBlock, EchoBlock and SoundRelax can be activated, deactivated, or changed in strength under [\[Fine tuning\]](#) > [\[Program options\]](#) for each program individually.



Roger specific information

There are several types of Roger programs:

- Hearing aids with Direct Audio Input (DAI) – **Roger/DAI+Mic**
- Hearing aids without DAI that use the ComPilot or Roger MyLink – **T-coil+mic**
- Hearing aids with RogerDirect connectivity – **RogerDirect+mic**

Settings common to Roger/DAI+mic and RogerDirect+mic programs

The options to set microphone type and microphone attenuation relative to the Roger signal can be set in **[Program options]**.

The three microphone options available for **Roger/DAI+Mic** and **RogerDirect+mic** are omni directional, real ear sound and fixed directional.

To change the default microphone option, move the hearing aid microphone slider.

The hearing aid microphone is set to 0 dB attenuation to ensure awareness of surrounding sounds.

Setting specific for hearing aids with DAI

The **Roger/DAI+Mic** program will automatically appear in the program structure and cannot be deleted.

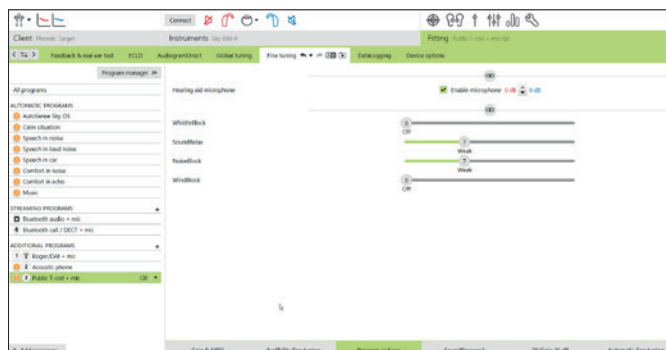
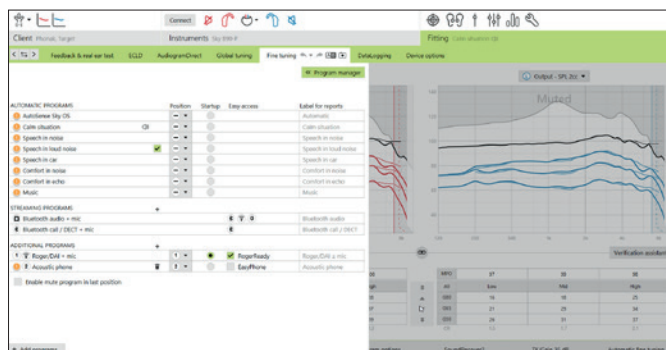
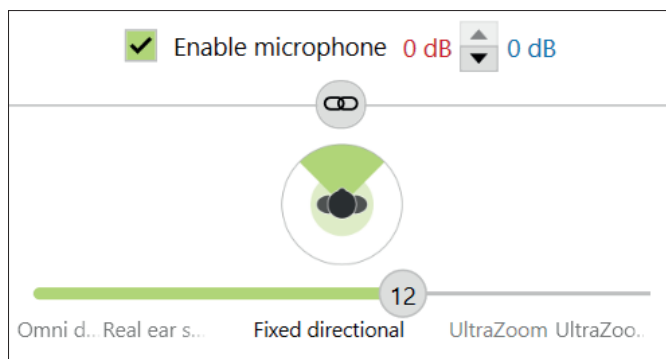
RogerReady, a function enabled by default, is active in both the startup program and in AutoSense Sky OS.

This function allows the hearing aid with an attached receiver to automatically switch into the **Roger/DAI+Mic** program when a transmitter is in range.

Hearing aids without DAI

To use the Roger MyLink, a **T-coil+mic** will automatically be added into the program structure.

To use the ComPilot, the **Roger+Mic** program will need to be added manually to the streaming programs to access Roger via the ComPilot.



Hearing aids with RogerDirect™ connectivity (RogerDirect+mic)

The default switching behavior for streaming in direct connectivity hearing aids can be modified for Roger:

- **[Automatic]** – the hearing aids will automatically switch and receive a Roger signal (**default**).
- **[Manual]** – no beep is heard and the program is added as the last program.
- **[Manual (with beep)]** – a beep is heard in the hearing aids and the client manually accepts to receive a Roger signal.

RogerDirect adaptive behavior is either standard adaptive (default) or dual adaptive.

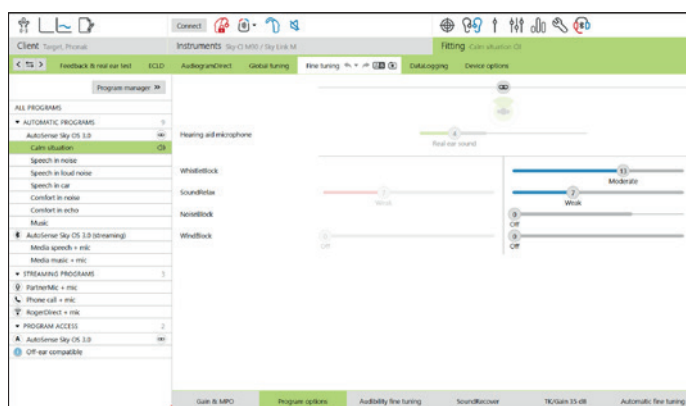
- **Standard adaptive (default):** As the noise level increases, the Roger signal adapts automatically (up to +20 dB) while the hearing aid microphone is not attenuated.
- **Dual adaptive:** As the noise level increases, the Roger signal increases automatically (up to +10 dB) while the hearing aid microphone is attenuated (up to -10 dB).



Bimodal fittings

Sky Link M can be fit in both bilateral and bimodal configurations. In a bimodal fitting with a Sky CI M, many of the settings will be determined by the CI and therefore they cannot be adjusted as they would in a bilateral fitting. This ensures alignment of directionality, noise reduction and programs across the two devices.

To ensure continued alignment between Sky Link M and Sky CI, both devices should be connected to Target during a fitting or follow-up session.



DataLogging

DataLogging can provide information about which listening environments the child has been in and for how long.

To access DataLogging information, go to **[Fitting]** > **[DataLogging]**.



Device options

Device options allow for adjustments to functions including manual controls, Bluetooth (direct connectivity only), signals & alerts, indicator light, startup and DataLogging.

To change settings, go to **[Fitting] > [Device options]**, and click on the required tab.

Note: There are five light patterns that can be activated or deactivated by checking the box beside each option under **[Indicator light]**.

Additional options include: Device on, Roger access, low battery, volume change and program change.

The status of the Roger receivers in a connected hearing aid can be seen by:

- Hovering over the hearing aid icon in the dashboard
- In **[Device options] > [RogerDirect]** tab on the left side of the screen

When the hearing aid is connected, each pattern can be demonstrated on the hearing aid by clicking the **[Demo]** button beside each option.

CROS fittings with non-direct connectivity hearing aids

Roger/DAI+Mic and CROS

When the **Roger/DAI+Mic** program is active, CROS will automatically be disabled. When the Roger signal is no longer available for more than a minute, the hearing aid will switch back to the startup program.

If the startup program is not **Roger/DAI+Mic**, CROS will be reactivated and the reconnection beeps will be heard.

To change the startup program, go to **[Fine tuning] > [Program manager]**. Select a startup program and change it to 1 under the position column.



Overview of Junior mode defaults

Overview of DSL default settings

Program structure	0–3 years	4–8 years	9–12 years	13–18 years
Startup	AutoSense Sky OS	AutoSense Sky OS	AutoSense Sky OS	AutoSense Sky OS
Roger/DAI+Mic	Real ear sound	Fixed directional	Fixed directional	Fixed directional
Indicator light	Enabled	Enabled	Disabled	Disabled
Push button	Disabled	Disabled	Enabled	Enabled
Volume control	Disabled	Disabled	Enabled	Enabled

Overview of NAL default settings

Program structure	0–3 years	4–8 years	9–12 years	13–18 years
Startup	AutoSense Sky OS	AutoSense Sky OS	AutoSense Sky OS	AutoSense Sky OS
Roger/DAI+Mic	Fixed directional	Fixed directional	Fixed directional	Fixed directional
Indicator light	Enabled	Enabled	Disabled	Disabled
Push button	Disabled	Disabled	Enabled	Enabled
Volume control	Disabled	Disabled	Enabled	Enabled

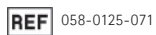
Information and description of symbols and system requirements

Information and the description of symbols and an overview of system requirements can be found in the Phonak Target Fitting Guide.

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Phonak Target 7.1 DVD