Fitting Guide

roger

Roger and Advanced Bionics sound processors Naída CI, Auria and Harmony

This guide provides detailed information on how Roger receivers should be used with Advanced Bionics sound processors to achieve the best possible performance.

A 2013 study by Dr. Jace Wolfe of Hearts for Hearing Foundation, Oklahoma City, revealed that the use of Roger systems in combination with cochlear implants resulted in significant improvements in speech recognition at high noise levels (70 to 80 dB (A)) over fixed gain FM and Dynamic FM technologies (see www.phonakpro.com)[1].

Set-up

The table below shows what is required to connect the sound processor to a Roger receiver.

Sound processor		
Advanced Bionics Naída CI Q70[2]	Advanced Bionics Naída CI	Advanced Bionics Harmony™ / Auria™
		
Roger 17	ComPilot + Roger X	iConnect™ + Roger X[3]
Receiver + Adapter		

Roger X is not compatible with the Advanced Bionics (AB) Neptune™ sound processor.

[1] Jace Wolfe (2013), Evaluation of speech recognition of cochlear implant recipients using a personal digital adaptive radio frequency system. Accepted by the *Journal of the American Academy of Audiology.*
[2] PowerCel™ 170 battery required.
[3] Roger X with SN > 1336NY560 only.

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Pre-fitting

Program the sound processor with the recommended settings according to the table below.
This will ensure maximum benefit from the Roger system.

Model	Recommended sound processor setting
AB Naída CI Q70	Set the Audio Mixing Ratio (Mic/Aux) to 50/50
AB Naída CI Q70 via ComPilot	Set the ComPilot Mixing Ratio to either 50 or 75%
AB Harmony™ / Auria™	Set the Audio Mixing Ratio (Mic/Aux) to 50/50

For Roger 17, no pre-programming is required.
For Roger X when used with ComPilot, no pre-programming is required but might be done to deactivate the AutoConnect tones .
For Advanced Bionics Harmony / Auria systems, Roger X[4] must be pre-programmed.

A Roger inspiro is required for programming Roger X[4].

1. Connect Roger X to the sound processor or ComPilot and switch it on.
2. Turn Roger inspiro on, hold it close to Roger X (less than 10 cm/4 inches) and select the function **Check**.
3. Click **Manage**, scroll to **'CI module'** then click **OK**.
4. Scroll to the corresponding value as shown in the table below.
5. Scroll to EasyGain and click OK.
6. Set the EasyGain to the corresponding value as shown in the table below.

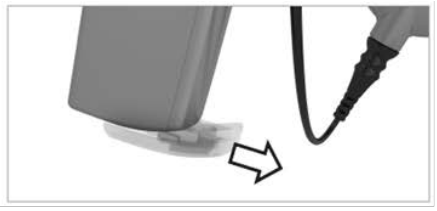
Model	Recommended CI module setting	Recommended EasyGain	AutoConnect status
AB Harmony™ / Auria™	Setting 4[5]	+8dB	OFF
AB Naída CI Q70 with ComPilot and Roger X	Setting 3	0dB	OFF

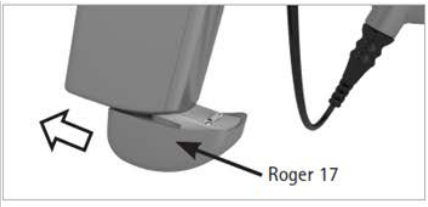
This will ensure that the Roger X output impedances match the input impedance of the sound processor.

[4] Available for Roger X (02) only
[5] If more EasyGain is required, select Setting 1 with adjust EasyGain to the desired level

Getting started

Attaching Roger 17:





Step 1: Attach Roger receiver
Switch all equipment off. If required, remove the standard cover or hook and attach the adapter to the sound processor. Now attach the Roger receiver to the sound processor, adapter, battery or to ComPilot.

Step 2: Switching on
Ask the user to put on the sound processor and switch it on. If available switch also the ComPilot on. The sound processor should automatically detect the presence of the Roger receiver. If this is not the case, manually change to the program utilizing the recommended Roger program settings.

Step 3: Connect
Hold the Roger microphone close to the Roger receiver (within 10 cm/4 inches) and press the **Connect** button on the Roger microphone. The user should now report that he/she has heard the confirmation beeps (a low tone followed by a high tone).
If the user did not hear the confirmation beeps, you may need to manually switch the processor into the DAI, EXT, ComPilot or AUX program. Repeat this connect process until your patient hears the beeps.

Step 4: Test the system

Consider testing the user's speech recognition in quiet with the CI alone by muting the Roger microphone and standing close to your patient. Then test the user's speech recognition through the Roger microphone while standing at least 3 meters away.

Using Roger via the T-Coil

Alternatively, the receiver Roger MyLink can be used after activating the T-Coil on the sound processor.

Troubleshooting

Signal from Roger microphone cannot be heard	
Sound processor is set in the wrong program	Switch the sound processor to the dedicated DAI program
Roger receiver is not connected to the Roger microphone	Connect Roger receiver with the Roger microphone (see Step 3)
Roger microphone is not switched on or is muted	Switch on the Roger microphone and make sure it is not muted (refer to User Guide)
CI user is out of range of the Roger microphone	Ask the CI user to move closer to the Roger microphone to be within its operating range
Batteries are empty	Use fresh batteries or make sure the rechargeable battery pack is full charged
Processor microphones are attenuated	
Mixing ratio	Make sure a mixing ratio other than 'Aux Only' is being utilized. Make sure the mixing ratio is set to 50/50 for AB users
Microphone sensitivity	Make sure microphone sensitivity has not been reduced in the DAI, EXT, ComPilot or AUX program
The Roger microphone's signal suffers from interruptions	
The Roger microphone is too far away or shielded by obstacles (e.g. human body)	Reduce the distance between Roger receiver and the Roger microphone, and ensure both devices are in line of sight

Listening check

Listening option		
Roger 17 listening check with the Naída CI Listening Check	**MLx Audio Checker with Roger 17 Adapter and Roger 17**	**MLx Audio Checker and Roger X**
		
Place the Naída CI Listening check between the processor and the PowerCell 170 and plug headphones into the socket for listening to both, the microphone and the Roger signal	Roger 17 plugged into the Roger 17 Adapter	Roger X plugged directly into the MLx Audio Checker

Special features for educational system[4]

Programming of EasyGain
If the volume of the Roger system is not satisfactory, you can change the gain of the receiver via Roger inspiro.
Hold Roger inspiro close to Roger receiver (less than 10 cm/4 inches) and press **Check**.
Roger receiver information will appear on the Roger inspiro's screen.
Press **Manage**, scroll with the cursor to **EasyGain** and press **OK**.
Now you can change the gain of the receiver in the range of -8 to +8 dB.

[4]Available for Roger 17 (02) and Roger X (02) only