

Fitting Guide

# BEHIND-THE-EAR HEARING INSTRUMENTS

Nano RITE  
Hearing Systems





# Fitting Guide

## Nano RITE Hearing Systems

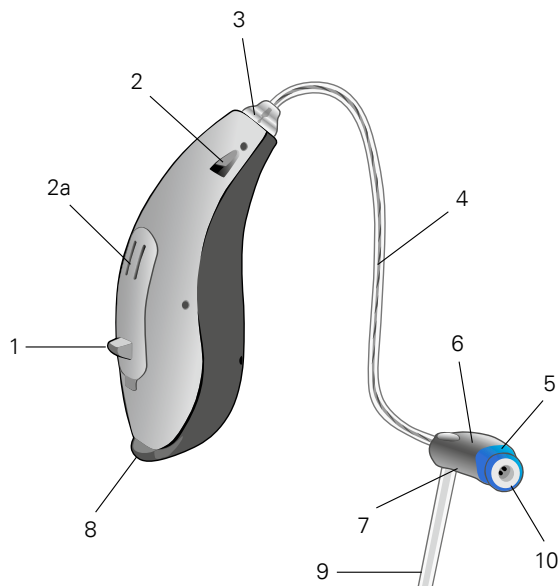
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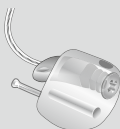







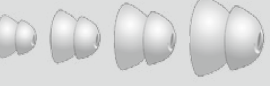



# Nano RITE Hearing Systems – Overview

The Nano RITE receiver-in-the-ear hearing instrument is easy to handle and comfortable to wear. Its unique design in combination with advanced technology delivers tangible end user benefits. This guide is designed to help you fit and manage Nano RITE hearing systems.



- 
- |    |                      |    |                           |
|----|----------------------|----|---------------------------|
| 1  | Push button          | 6  | Speaker                   |
| 2  | Microphone           | 7  | Speaker unit size marking |
| 2a | Second microphone    | 8  | Battery drawer            |
| 3  | Connector plug       | 9  | Ear grip                  |
| 4  | Wire                 | 10 | ProWax filter             |
| 5  | Left/right indicator |    |                           |

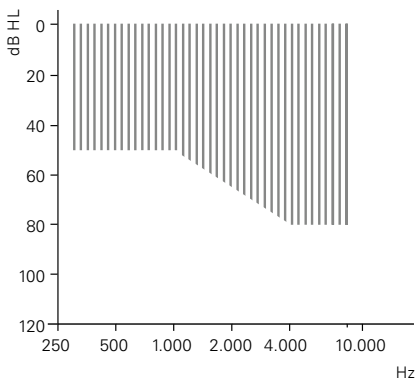
# Selection Chart for Acoustic Options

Speaker Unit	Fitting Type	Wax Protection Speaker Unit	Ear Pieces				Wax Protection Custom Mold
	<b>Instant</b>	<b>ProWax</b>	Open Domes (6, 8, 10) 	Tulip Dome 	Power Domes (6, 8, 10, 12) 		
	<b>Custom</b>		Micro Mold 	Canal Mold 	Canal Lock 	Skeleton 	WaxStop 
			Lite Tip 				
	<b>Instant</b>	<b>WaxStop</b>		Tulip Dome 	Power Domes (6, 8, 10, 12) 		
	<b>Custom</b>		Power Mold 			WaxStop  ProWax 	

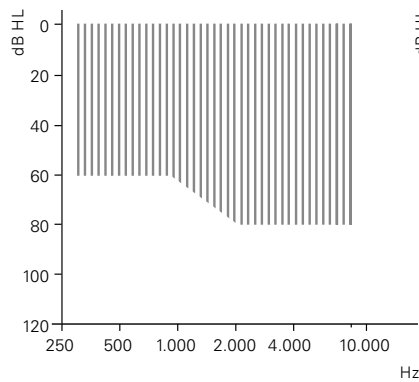
## Fitting Ranges

Nano RITE hearing systems offer two speaker units: the M-Speaker, which is appropriate for mild to moderately severe losses, while the P-Speaker provides additional power for severe hearing losses. Expected fitting ranges with different ear pieces are shown below.

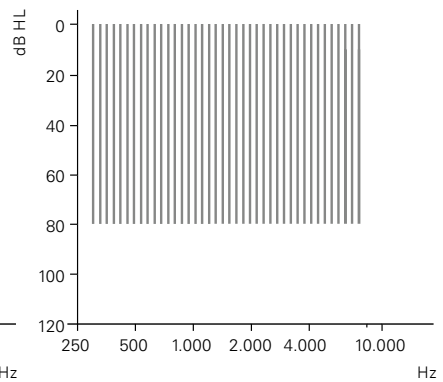
### M-Speaker Unit



**Open Dome**

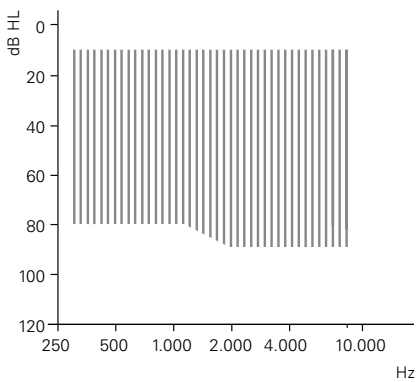


**Tulip Dome**

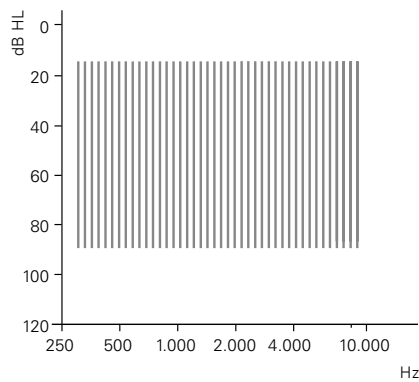


**Micro Mold / Lite Tip / Power Dome**

### P-Speaker Unit



**Tulip Dome**

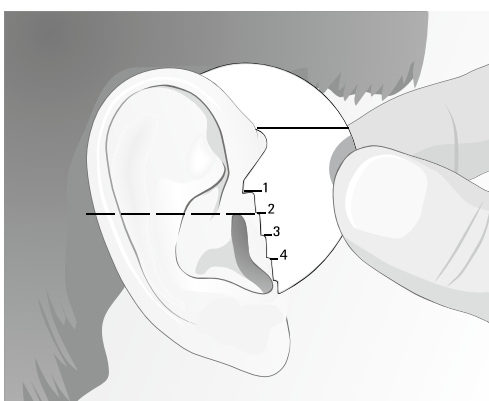


**Power Mold/Power Dome**

## Selecting the Speaker Unit Length

Four receiver lengths are available for both the M-Speaker and the P-Speaker. No. 1 is the shortest while no. 4 is the longest. Before fitting Nano RITE hearing instruments, it is necessary to determine the correct speaker unit length. The measurement procedure is the same for both the M-Speaker and the P-Speaker.

1



- 1 Place the measurement tool over the ear, keeping the top line horizontal. With your eyes at the same level as the ear, determine which mark is closest to an imaginary line running over the top of the ear canal. In this example, the correct choice is size 2.

Power Molds will have a better fit if you choose a slightly longer wire length than you would when fitting a Power Dome. If the top of the ear canal falls between two numbers on the gauge, choose the higher number.

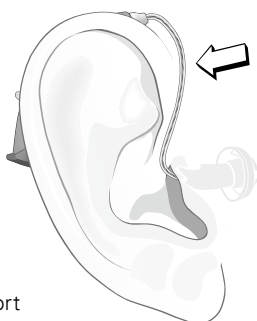
2



- 2 If the speaker unit wire is too long the hearing instrument will fall back over the ear and the microphones will point vertically instead of horizontally. It is also unlikely that the receiver wire will fit the contours of the ear correctly.
- 3 If the speaker unit wire is too short, it will have a tendency to move out of the ear canal, and the hearing instrument will lose stability on the ear.

Wire too long

3

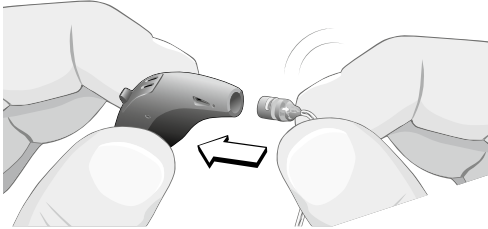


Wire too short



## Attaching the Speaker Unit to a Nano RITE Hearing System

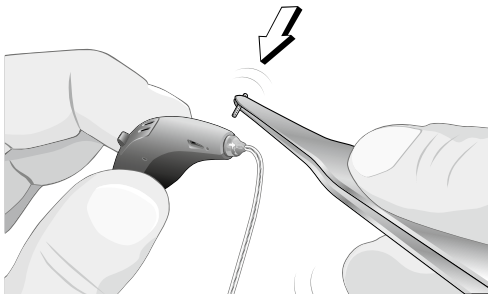
1 – 2



Correct speaker unit attachment is imperative.

- 1 Slide the connector plug into the connector socket of the instrument. Take care to align the pins in the connector plug with the socket.
- 2 When the connector plug is correctly aligned, push it gently into place.

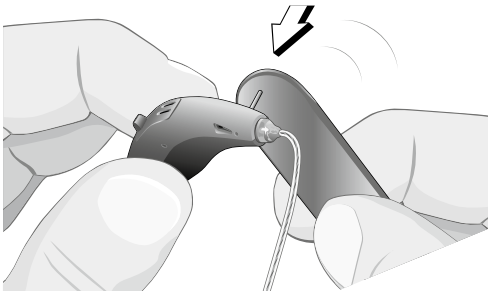
3



- 3 Take the lock pin out of the packaging in which the speaker unit is delivered (tweezers make this easier). Insert the lock pin with the tweezers.

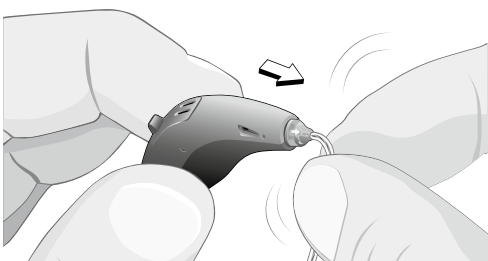
- 4 Ensure that the lock pin is fully inserted into the hearing instrument. Use the back side of the tweezers tool if necessary.

4



- 5 To test the attachment of the speaker unit to the hearing instrument, gently pull the speaker wire near the connection to the hearing instrument as shown. If the speaker comes off, then it was not attached properly.

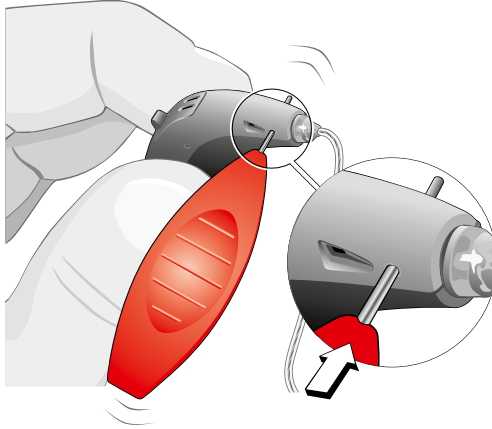
5



**Speaker units can easily sustain internal damage if dropped. Before you attach the speaker unit, please place a dome on the speaker to protect it.**

# Detaching the Speaker Unit from a Nano RITE Hearing System

1



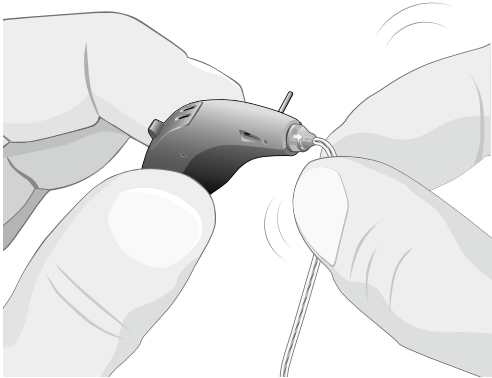
1 Use the pointed end of the disassembly tool to push the lock pin free.

2 Hold the instrument firmly with one hand and with the other hand hold the edge of the connector plug between your thumb and forefinger.

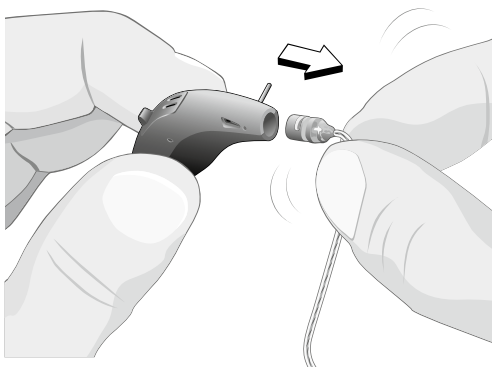
3 Gently pull the connector plug out of the socket. If it does not come out easily, verify that the lock pin is completely free.

4 Avoid losing the lock pin due to the fact that you will need it for reattaching the speaker to the hearing instrument.

2



3

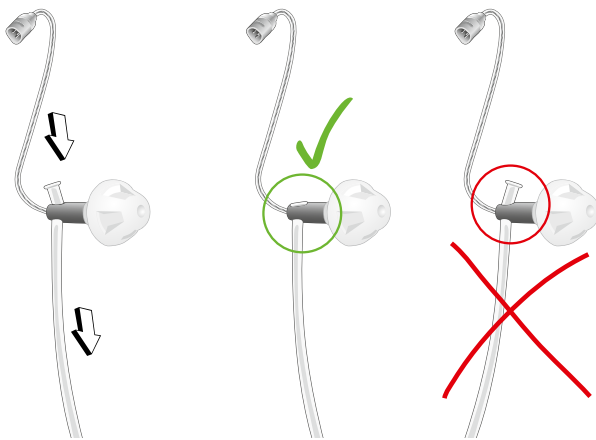


**i** Do not attempt to detach the speaker unit by pulling on the wire without pushing the lock pin free. This could damage both the speaker unit and the hearing instrument.

# M-Speaker Unit

The M-Speaker unit is suitable for mild to moderately severe losses and comes in four lengths. It can be used for both instant and custom fittings.

1



- 1 To obtain a more secure hold in the ear canal, an ear grip should be used. The same version works for both the left and the right ear. Insert the ear grip in the slot in the receiver as shown, noting the orientation.

If the ear grip seems too long, it may be trimmed to the desired length. Be careful not to leave a sharp end when cutting since this could cause irritation in the ear.

- 2 To remove the ear grip, push it in the opposite direction.

2

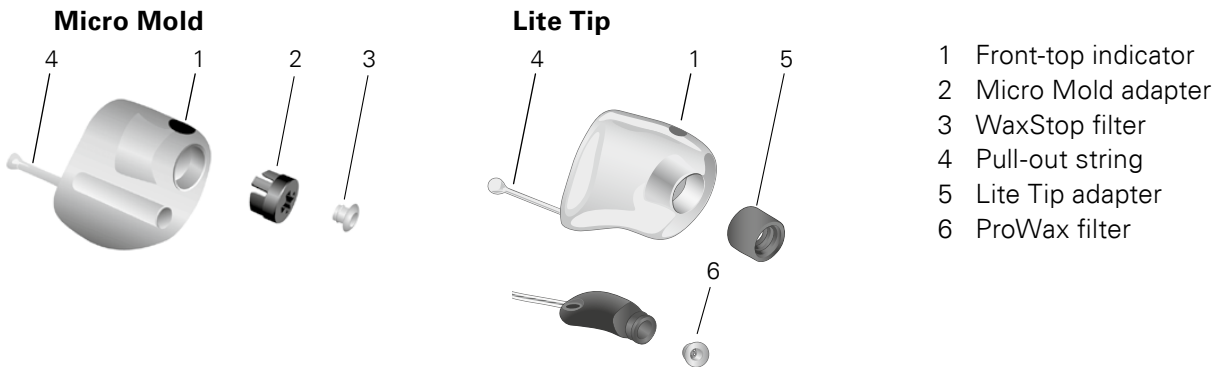


**i**

**During insertion, the top of the ear grip should point towards the speaker wire as illustrated. Pull the ear grip down until the top disappears into the slot. If inserted in the wrong direction, the ear grip will not be oriented properly to place in the concha.**

# Custom Molds for the M-Speaker

For custom fittings two different types of molds can be attached to the M-Speaker. The Micro Mold and the Lite Tip come with an adapter already inserted, colored red (right) or blue (left) to indicate which ear. The color dot on the top of the custom mold indicates the front and top position in the ear canal.



## Tools for Custom Molds

To attach and detach the M-Speaker unit to and from a custom mold, two different tools are designed to be used.

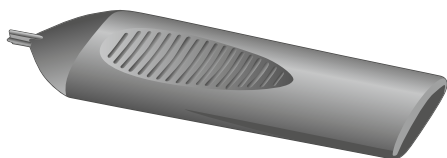
### Lite Tip Tool for Lite Tip and Micro Mold

- attaching the Lite Tip or the Micro Mold onto the M-Speaker unit
- detaching the M-Speaker unit from a Lite Tip



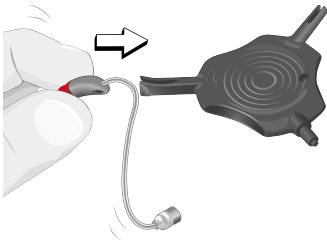
### Disassembly Tool for Micro Mold

The Micro Mold disassembly tool is intended for detaching the Micro Mold from the M-Speaker.

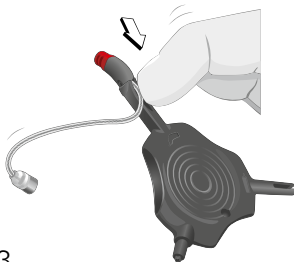


## Attaching the Lite Tip and the Micro Mold to the M-Speaker Unit

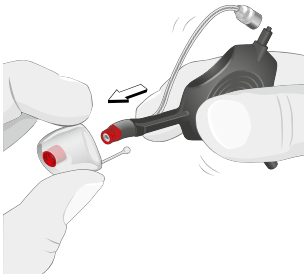
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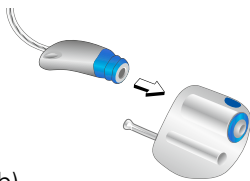
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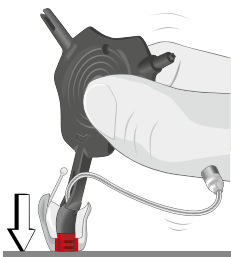
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4 a)

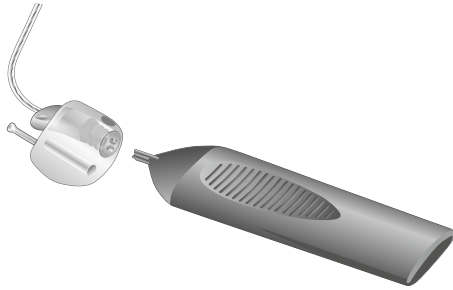


4 b)



- 1 Use the cup pin of the Lite Tip tool for curved receivers.
- 2 Place the receiver into the tool and push the wire into the groove to obtain a stable attachment. Make sure that the ProWax is on the receiver (see page 18).
- 3 Before inserting the receiver into the mold, turn the receiver so that the wire and up marking on the mold are properly aligned. Carefully center the receiver in the middle of the adapter before pushing it in.
- 4 Insert the receiver into the custom mold.
- 4 a) **Micro Mold:** Align and firmly insert the M-Speaker unit into the Micro Mold until it clicks into place. This should be done carefully.
- 4 b) **Lite Tip:** Place the Lite Tip against the table and push the receiver firmly in place. Make sure that the front of the receiver is fully inserted and flush with the front of the Lite Tip. This should be done carefully.
- 5 Make sure that the mold sits correctly in the patient's ear and check the position of the wire. If necessary the wire is bendable by heating.

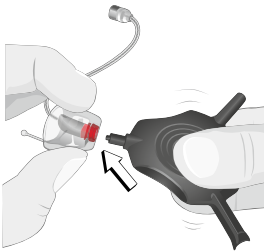
### Detaching the Micro Mold from the M-Speaker



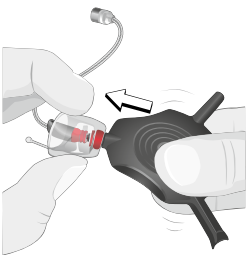
- 1 Remove the WaxStop from the Micro Mold (see page 18).
- 2 Insert the disassembly tool into the Micro Mold adapter, making sure to align with the cross as illustrated.
- 3 Push the disassembly tool into the Micro Mold. The Micro Mold will disengage with a click.

### Detaching the Lite Tip from the M-Speaker

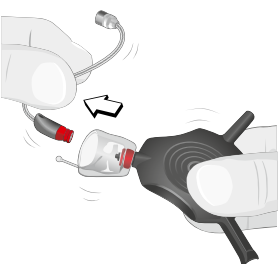
1



2



3



- 1 Carefully align the tool with the center of the Lite Tip.
- 2 Press the tool into the Lite Tip to release the M-Speaker unit while firmly holding the Lite Tip.
- 3 The Lite Tip can now be removed from the M-Speaker unit.

**i** It is not possible to detach the Micro Mold or the Lite Tip without the appropriate tool.

# P-Speaker Unit for Power Fittings

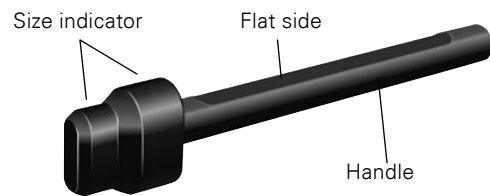
The P-Speaker unit contains a high performance receiver which requires ample room in the ear canal. To determine if your client's ear canal can accommodate this receiver, please use the measurement gauge supplied. This step is necessary for both instant fittings with the Power Dome and custom fittings with molds.

## Using the Measurement Gauge

1 – 2



3



- 1 Hold the handle of the measurement gauge so that the flat side of the handle is up.
- 2 Insert the gauge into the ear canal (with the flat side up) until the size indicator is fully surrounded by the ear canal. If the size indicator fits easily within the ear canal, the client is an excellent candidate for the P-Speaker unit.
- 3 If the size indicator does not fit in the ear canal but is hidden behind the tragus when viewing from a 45° angle, the P-Speaker with Canal Mold can still be produced.
- 4 If the size indicator is visible when viewed from a 45° angle, the client is NOT a candidate for the P-Speaker unit.

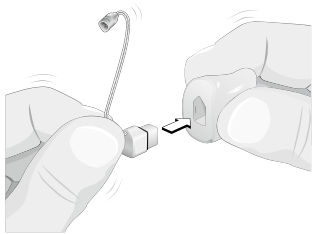


**The gauge must be cleaned and sterilized properly before re-use. First clean any visible cerumen from the gauge with a clean dry or moist tissue. Next soak the gauge in a cold sterilant for at least 6 hours.**

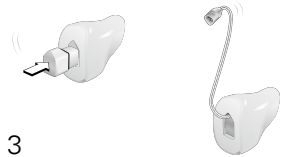
# Custom Fit with Power Mold

Power Molds are made from an impression similar to one needed for an in-the-canal hearing instrument. It is possible to include a vent up to a maximum of 2.4 mm if specified at the time of order.

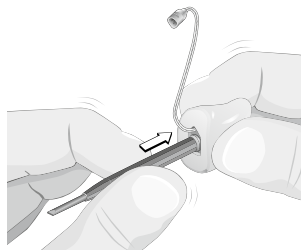
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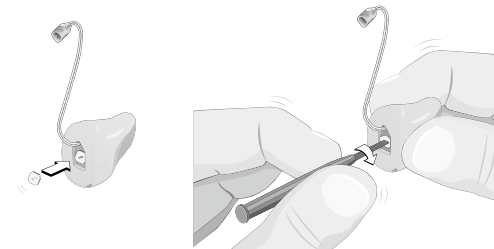
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3



4



5



## Attaching and Detaching Power Mold to and from P-Speaker Unit

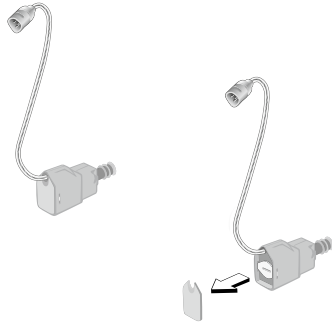
- 1 Hold the P-Speaker unit in one hand and the Power Mold in the other hand, positioned as illustrated.
- 2 Insert the P-Speaker unit into the mold until it is fully covered and recessed by approx. 1 mm.
- 3 Use the back of the special screwdriver (see page 22) if needed.
- 4 Place the locking plate on the receiver housing and use the special screwdriver to turn the locking plate approx. 45° clockwise until it locks into the grooves of the shell.
- 5 Next snap the cover into the faceplate, covering the receiver housing and surrounding the base of the tubing for reduced visibility.

To remove the P-Speaker unit, first remove the cover by very gently sliding the special screw driver between the tube and the cover and then apply a slight upwards pressure. Using the special screwdriver, turn the locking plate counterclockwise by approx. 45°. You will feel it release slightly, then remove the plate.

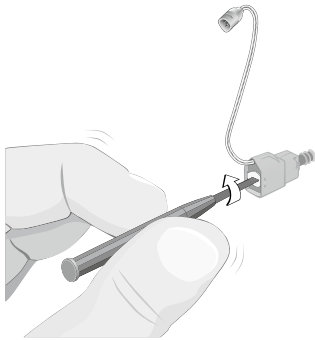


## Changing from a Power Dome to a Power Mold

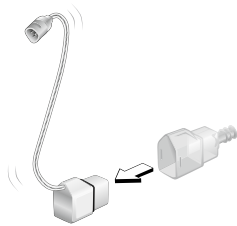
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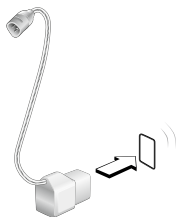
2



3



4



- 1 Remove the transparent cover on the dome adapter by gently prying it off with a screwdriver.
- 2 Use the screwdriver to unlock the locking plate by turning it approx. 45° counter-clockwise.
- 3 Remove the dome adapter from the P-Speaker unit.
- 4 Remove the speaker unit seal from the P-Speaker unit.

Follow the instructions on page 16 to attach the Power Mold to the P-Speaker unit.



**A new speaker unit seal must be used each time the speaker unit is attached to the shell. Do not roll the speaker unit seal.**

# Changing the ProWax Filter and the WaxStop

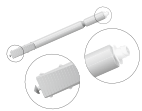
## WaxStop System

The WaxStop system is applicable for the following acoustic setups:

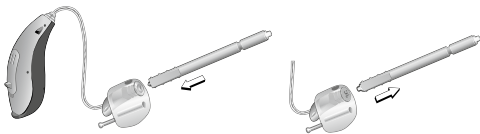
- M-Speaker coupled with a Micro Mold
- P-Speaker coupled with any ear piece (instant and custom solutions)

The WaxStop should be changed as needed, to ensure efficient wax protection, and to prolong the life of the speaker unit.

1



2



3



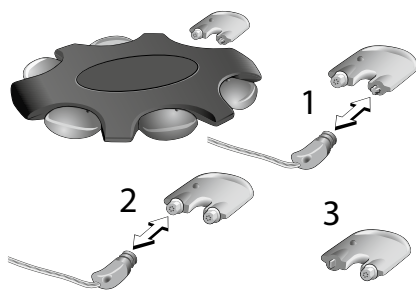
- 1 Take the stick with the new WaxStop on it. On the opposite end is a removal socket for the old WaxStop.
- 2 Insert the removal plug into the opening of the old WaxStop and pull it out slowly. Keep the stick straight.
- 3 To insert the new WaxStop turn the stick around and place the new part in the sound outlet and gently remove the stick.
- 4 Discard the used stick with the old WaxStop. It cannot be reused.

## ProWax System

The ProWax system is applicable for the following acoustic setups:

- M-Speaker coupled with a dome or Lite Tip
- P-Speaker coupled with a Power Mold

Visually inspect the ProWax filter in the end of the speaker unit. If it is clogged or there is no sound coming from the device, replace the ProWax filter.



- 1 Remove a tool from the turtle, insert its empty end into the old filter and pull it out.
- 2 Push a new filter into the speaker outlet.
- 3 Discard the used tool. It cannot be reused.

# Fitting a Nano RITE with Oasis

Nano RITE hearing systems are programmed with Oasis using new standard (no. 2) programming cables.

Please always insert a fresh battery prior to programming.

For your convenience, wireless Nano RITE hearing instruments are compatible with the nEARcom wireless programming system (depends on hearing instrument product family).

## Attaching the Programming Cables

1

---



1 Remove the cover with the screwdriver as shown.

2

---



2 Plug the cable into the connector.

3

---



3 To replace the cover, hook the top end under the shell first, then snap it gently into place.

# Ordering Information

## I SPEAKER UNITS

### I.1 M-SPEAKER UNITS

Part Number	Designation	Comments
113645	Speaker unit M, 1L	Suitable for both custom and instant fit
113646	Speaker unit M, 2L	
113647	Speaker unit M, 3L	
113648	Speaker unit M, 4L	
113611	Speaker unit M, 1R	
113630	Speaker unit M, 2R	
113631	Speaker unit M, 3R	
113632	Speaker unit M, 4R	



### I.2 P-SPEAKER UNITS

Part Number	Designation	Comments
118226	Speaker unit P, 1L, dome adapter mounted	For instant fit
118227	Speaker unit P, 2L, dome adapter mounted	
118228	Speaker unit P, 3L, dome adapter mounted	
118229	Speaker unit P, 4L, dome adapter mounted	
117975	Speaker unit P, 1R, dome adapter mounted	
118222	Speaker unit P, 2R, dome adapter mounted	
118223	Speaker unit P, 3R, dome adapter mounted	
118224	Speaker unit P, 4R, dome adapter mounted	



## I.3 P-SPEAKER UNIT ASSEMBLIES

Part Number	Designation	Comments
118667	Speaker assembly P, 1L	For custom fit
118668	Speaker assembly P, 2L	
118669	Speaker assembly P, 3L	
118670	Speaker assembly P, 4L	
118662	Speaker assembly P, 1R	
118663	Speaker assembly P, 2R	
118664	Speaker assembly P, 3R	
118665	Speaker assembly P, 4R	



## 2 DOMES

### 2.1 OPEN DOMES

Part Number	Designation	Comments
120045	Open Dome RITE 6 mm	Blister of 10 pieces
120046	Open Dome RITE 8 mm	Blister of 10 pieces
120047	Open Dome RITE 10 mm	Blister of 10 pieces
120044	Tulip Dome	Blister of 10 pieces



### 2.2 POWER DOMES

Part Number	Designation	Comments
118063	Power Dome RITE 6 mm	Blister of 10 pieces
120041	Power Dome RITE 8 mm	Blister of 10 pieces
120042	Power Dome RITE 10 mm	Blister of 10 pieces
120043	Power Dome RITE 12 mm	Blister of 10 pieces

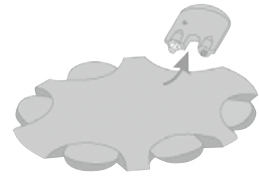


## 3 SPEAKER KITS

Part Number	Designation	Comments
119979	M-Speaker kit	Containing: <ul style="list-style-type: none"> <li>· 8 M-Speaker units</li> <li>· Open Domes</li> <li>· Tulip Domes</li> <li>· Tools</li> </ul>
119978	P-Speaker kit	Containing: <ul style="list-style-type: none"> <li>· 8 P-Speaker units</li> <li>· Power Domes</li> <li>· Tulip Domes</li> </ul>

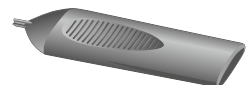
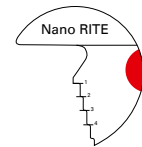
## 4 WAX FILTERS

Part Number	Designation	Comments
123459	ProWax system Turtle with 6 filters	For M-Speaker For Power Mold
689-30-282-00	WaxStop filter (8 pieces)	For P-Speaker (instant fit only) For Micro Mold and Power Mold
544-10-240-00	Bushing WaxStop	For P-Speaker with Power Mold



## 5 TOOLS

Part Number	Designation	Comments
890-22-270-00	Disassembly tool for lock pin	
119089	Measurement tool for speaker units	
825-01-211-00	Micro Mold/speaker unit disassembly tool	To be used for M-Speaker with Micro Mold
825-01-230-00	Screwdriver	
890-22-320-00	Measurement gauge for P-Speaker	
118890	Lite Tip tool	To be used for M-Speaker with Lite Tip



# NANO RITE HEARING SYSTEMS

## 6 SPEAKER PARTS

Part Number	Designation	Comments
654-01-570-00	Dome adapter, transparent	For instant fit with P-Speaker
506-24-030-00	Locking plate	With P-Speaker
543-11-770-00	Cover, beige	With P-Speaker
543-11-771-00	Cover, medium brown	
543-11-772-00	Cover, pink	
543-11-773-00	Cover, dark brown	
543-11-774-00	Cover, transparent	
573-87-210-00	Micro Mold adapter, red	
573-87-211-00	Micro Mold adapter, blue	
119591	Lite Tip adapter, red	With M-Speaker (100 pieces)
119592	Lite Tip adapter, blue	
540-54-240-00	Gasket (sealing between speaker unit and Power Mold)	With P-Speaker



Since 1946, we have been passionate about developing quality hearing systems that enable people with hearing difficulties to enjoy authentic listening experiences. With Swiss Engineering, precision technology, and our commitment to individual service, we strive to exceed our customer's expectations. Our aim is to provide extra value to our partners every day. Bernafon representatives and employees in over 70 countries fulfill our vision to help people with impaired hearing communicate again without limitation.

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