PHILIPS

HearLink

Receiver in-the-Ear Hearing Aids

miniRITE T
miniRITE T R

Made for
iPhone | iPad | iPod

Works with
android

Instructions for Use

Model overview

This booklet is valid for the Philips HearLink™ family in the following hearing aid models:

☐ MNR T R
☐ MNR T

FW 1.1

☐ Philips HearLink 9030 MNR T R	05714464033171 (HER9032)
☐ Philips HearLink 7030 MNR T R	05714464033188 (HER7032)
☐ Philips HearLink 5030 MNR T R	05714464033195 (HER5032)
☐ Philips HearLink 9030 MNR T	05714464033171 (HER9031)
☐ Philips HearLink 7030 MNR T	05714464033188 (HER7031)
☐ Philips HearLink 5030 MNR T	05714464033195 (HER5031)

The following speakers are available for the above model:

- ☐ Speaker 60
- ☐ Speaker 85
- ☐ Speaker 100
- ☐ Power Receiver Mold speaker 100
- ☐ Power Receiver Mold speaker 105
- ☐ MicroShell 60
- ☐ MicroShell 85

Intended use

Intended use	The hearing aid is intended to amplify and transmit sound to the ear.
Indications for use	Bilateral or unilateral impaired hearing of sensorineural, conductive or mixed type ranging from a slight (16 dB HL*) to profound (95 dB HL*) degree of hearing loss, with an individual frequency configuration.
Intended user	Person with hearing loss using a hearing aid and their caregivers. Hearing care professional responsible for adjusting the hearing aid.
Intended user group	Adults and children older than 36 months.
Use environment	Indoor and outdoor.
Contraindications	Not suitable for infants below 36 months. Users of active implants must pay special attention when using the hearing aid. For more information read the **Warnings** section.
Clinical benefits	The hearing aid is designed to provide better speech understanding to help ease communication with the aim of improving quality of life.

**As specified by the American Speech-Language-Hearing Association, asha.org, using pure-tone average of 0.5, 1 and 2 kHz.*

IMPORTANT NOTICE

The hearing aid amplification is uniquely adjusted and optimized to your personal hearing capabilities during the hearing aid fitting performed by your hearing care professional.

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Daily use

Options

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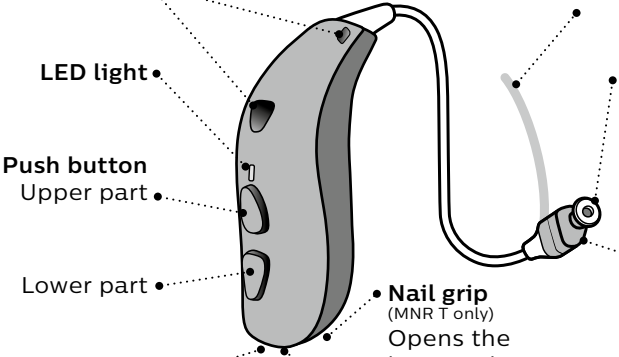
Your hearing aid, speaker and earpiece



Microphones
Sound in

Ear grip
Holds the speaker in place (optional)

LED light

Wax filter
Protects the speaker from earwax damage

Push button
Upper part

Lower part

Nail grip
(MNR T only)
Opens the battery drawer

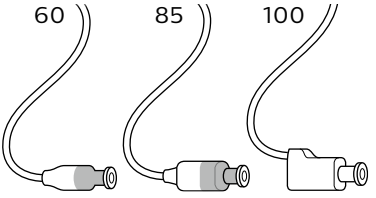
Speaker
Sound out

Rechargeable battery
(MNR T R only)
Can only be replaced by the hearing care professional

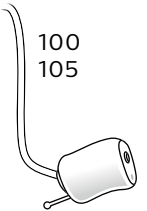
Battery drawer
(MNR T only)
Contains the battery

The hearing aid uses one of the following speakers:

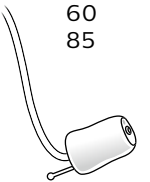
Standard speakers



Power Receiver Mold



MicroShell



The speakers use one of the following earpieces:

Standard earpieces

☐ OpenBass dome

☐ Bass dome, double vent

☐ Power dome

☐ Grip Tip

Available in small and large, left and right, with or without vent.

Customized earpieces

☐ LiteTip

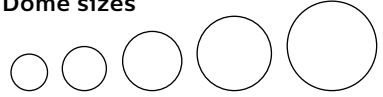
☐ MicroMold

☐ VarioTherm® LiteTip

☐ VarioTherm® MicroMold

VarioTherm® is a registered trademark of Dreve.

Dome sizes



*Only as OpenBass dome for speaker 60

Note

For details on replacing the dome, see the **Replace standard earpieces** section.

Charging time

(MNR T R only)

Ensure you fully charge your hearing aids before first use and charge them every night. This ensures you start your day with fully charged hearing aids.

If your hearing aid's battery is completely drained, the normal charging time is:

3 hours	1 hour	0.5 hour
Fully charged	50% charged	25% charged

When the battery is fully charged, the charging process stops automatically.

Charging time may vary depending on the remaining capacity of the battery and between the left/right hearing aid.

For instructions on how to use your charger, see the charger's instructions for use.

Battery performance

In both MNR T R and MNR T, battery performance varies depending on your individual use and hearing aid settings.

Streaming sound from a TV, mobile phone or connectivity devices can influence this performance.

Rechargeable battery — MNR T R only
If your rechargeable hearing aids do not perform for a full day, you may need to have the rechargeable battery replaced. If so, contact your hearing care professional.

If your hearing aids run out of battery, ensure you recharge them by placing them in the charger.

Be aware that restarting the hearing aids does not give you more usage time.

Turn hearing aids ON/OFF using the charger

(MNR T R only)

Your hearing aids automatically turn ON when removed from the charger.

The hearing aid LED light turns **GREEN** after approximately two seconds. Wait until the hearing aid LED light blinks **GREEN** twice, confirming that it is ready for use. Depending on your hearing aid settings, you may also hear a start-up jingle.

Your hearing aid automatically turns OFF and starts charging when placed in the charger. The hearing aid LED light turns **ORANGE**.

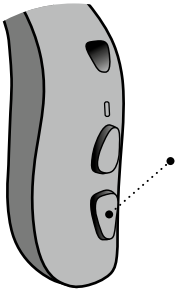
IMPORTANT NOTICE

If applicable, ensure that your charger is powered or that the charger's built-in battery is charged when the hearing aid is seated in the charging port. For more information, see your charger's instructions for use.

Turn hearing aids ON/OFF using the push button

(MNR T R only)

The hearing aids can be turned ON/OFF using the push button.



To turn ON

Press and hold the lower part of the push button for approximately two seconds until the hearing aid LED light turns **GREEN**.

Release the push button and wait until the hearing aid LED light blinks **GREEN** twice.

The hearing aid is now turned ON.

To turn OFF

Press and hold the lower part of the push button for approximately three seconds until the hearing aid LED light turns **ORANGE**. The hearing aid plays four descending tones. Release the push button and the hearing aid is turned OFF.

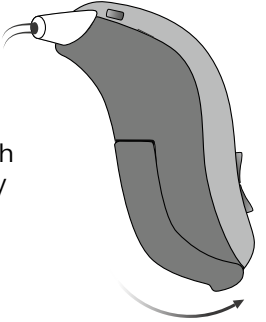
For information regarding tones, see the **Sound and LED light indicators** section.

Turn hearing aids ON/OFF

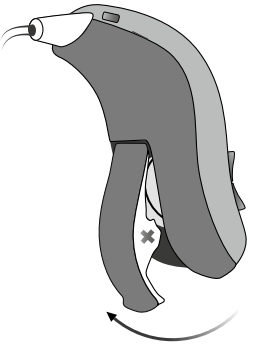
(MNR T only)

The battery drawer is used to turn the hearing aids ON and OFF. To save battery life, make sure your hearing aids are switched OFF when you are not wearing them. To perform a quick reset of hearing aid settings, open and close the battery drawer.

Turn ON
Close the battery drawer with the battery in place.



Turn OFF
Open the battery drawer.



Low battery indication

Just before the battery runs out completely, you will hear four descending tones. To extend battery performance, ensure you stop any audio streaming.

☐MNR T R: When the battery is running low, you will hear three alternate beeps. This gives you approximately two hours before the hearing aid runs out of battery. At this point, you may continue to stream audio for approximately one hour.

☐MNR T: When the battery is running low, you will hear three alternate beeps. This gives you approximately 15 minutes before the hearing aid runs out of battery. At this point, Bluetooth® connectivity is turned OFF.

Three alternate beeps
= The battery is running low.

Four descending tones
= The battery has run out.

LED light
Continuous **ORANGE** blinks indicate low battery.

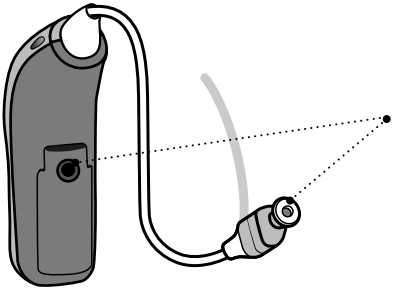
Identify left and right hearing aid

(MNR T R only)

It is important to distinguish between the left and the right hearing aid, as they may be programmed differently.

You can find left/right color indicators on the hearing aid itself and on 60 and 85 speakers as shown. Indicator markings (either L or R) can also be found on 100 speakers and some earpieces.

For 105 speakers, the indicator is found on the earpiece.



A **RED** indicator marks the RIGHT hearing aid.

A **BLUE** indicator marks the LEFT hearing aid.

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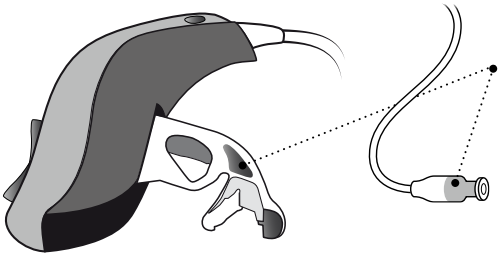


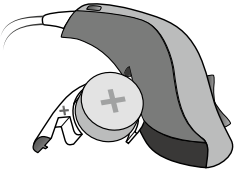
A **RED** indicator marks the RIGHT hearing aid

A **BLUE** indicator marks the LEFT hearing aid

How to replace the disposable battery — size 312

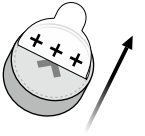
(MNR T only)

1. Remove



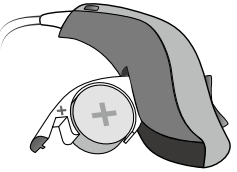
Fully open the battery drawer and remove the battery.

2. Uncover



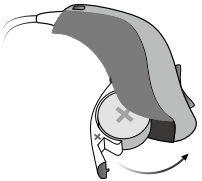
Remove the sticky label from the + side of the new battery.

3. Insert



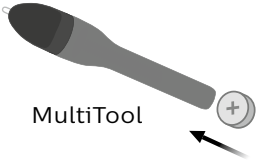
Insert the new battery into the battery drawer with the + side facing upwards.

4. Close



Close the battery drawer.
You may hear a jingle through the earpiece.

Tip



You can use the MultiTool to change the battery. Use the magnetic end to remove and insert batteries.

The MultiTool is provided by your hearing care professional.

Put on hearing aid

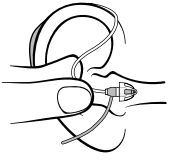
Step 1

Place the hearing aid behind your ear.

You should always use the speaker with an earpiece attached.

Ensure you only use parts designed for your hearing aid.

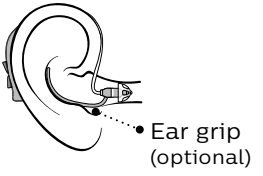
Step 2



Hold the bend of the speaker wire between your thumb and index finger.

The earpiece should point towards the opening of the ear canal.

Step 3

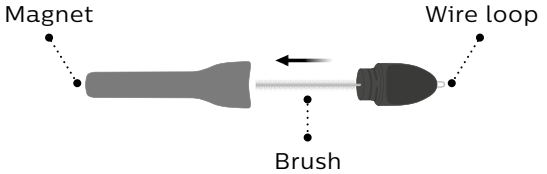


Gently push the earpiece into your ear canal until the speaker wire sits close to your head.

If the speaker has an ear grip, place it in the ear so it follows the contour of the ear.

Cleaning

The MultiTool contains a brush and wire loop for cleaning and removing earwax. If you need a new MultiTool, contact your hearing care professional.



IMPORTANT NOTICE

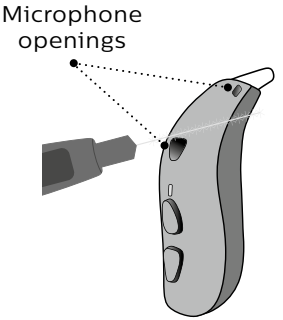
The MultiTool has a built-in magnet. Keep the MultiTool at least 30 centimeters (1 foot) away from credit cards and other magnetically-sensitive devices.

Do not drop your hearing aid when handling it. Ensure you hold it over a soft surface to avoid damage while cleaning it.

Clean the microphone openings

Use the MultiTool brush to carefully brush debris away from the openings and the surface around the openings.

Ensure that you do not forcefully squeeze parts of the MultiTool into the microphone openings. This may damage the hearing aid.



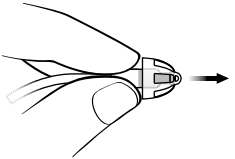
IMPORTANT NOTICE

To clean the hearing aid, use a soft, dry cloth. The hearing aid must never be washed or immersed in water or other liquids.

Replace standard earpieces

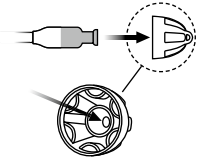
It is important that you do not clean the standard earpiece (dome and Grip Tip). If the earpiece is filled with earwax, replace it with a new one. Grip Tip needs to be replaced at least once a month.

Step 1



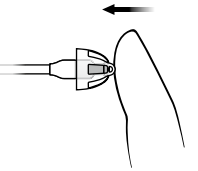
Hold on to the speaker and pull off the earpiece.

Step 2



Insert the speaker exactly into the middle of the earpiece to get a secure fit.

Step 3



Push firmly to ensure that the earpiece is securely fastened.

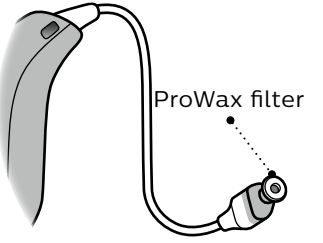
IMPORTANT NOTICE

If the earpiece is not on the speaker when removed from the ear, the earpiece may still be in the ear canal. For further instructions, consult your hearing care professional.

ProWax miniFit filter

The speaker has a white wax filter attached to the end where the earpiece is attached. The wax filter keeps earwax and debris from damaging the speaker.

Ensure you replace the filter when clogged, or if the hearing aid does not sound normal. Alternatively, contact your hearing care professional. Ensure you remove the earpiece from the speaker before replacing the wax filter. To do this, see the **Replace standard earpieces** section.

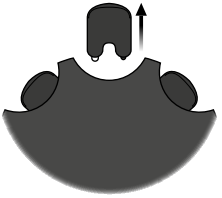


IMPORTANT NOTICE

Ensure you always use the same type of wax filter as originally supplied with the hearing aid. If you are in doubt about the use or replacement of wax filters, contact your hearing care professional.

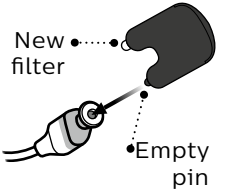
Replace ProWax miniFit filter

1. Tool



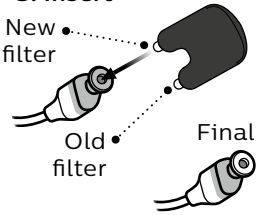
Remove the tool from the shell. The tool has two pins, one empty for removal and one with the new wax filter.

2. Remove



Insert the empty pin into the wax filter in the speaker and pull it out.

3. Insert



Insert the new wax filter using the other pin, remove the tool, and throw it out.

Note
If you use a mold or LiteTip, your hearing care professional must replace the wax filter in the speaker.

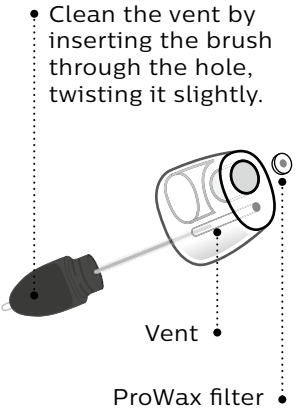
Clean customized earpieces

Ensure that you regularly clean the earpiece.

The earpiece has a white wax filter* that keeps earwax and debris from damaging the speaker.

Ensure you replace the filter when clogged, or if the hearing aid does not sound normal.

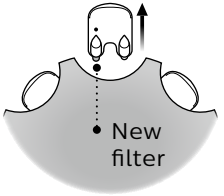
Alternatively, contact your hearing care professional.



Note
If you use a mold or MicroMold, your hearing care professional must replace the wax filter in the speaker.
* VarioTherm MicroMold and LiteTip do not have a wax filter

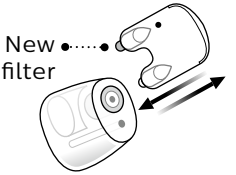
Replace ProWax filter

1. Tool



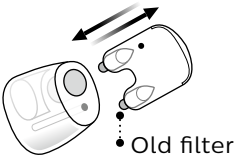
Remove the tool from the shell. The tool has two pins, one empty for removal and one with the new wax filter.

2. Remove



Insert the empty pin into the wax filter in the earpiece and pull it out.

3. Insert



Insert the new wax filter using the other pin, remove the tool, and throw it out.

Hearing aid storage

(MNR T R only)

When you are not using your hearing aid, the charger is the best place to keep it.

To ensure the longest life of the rechargeable battery in the hearing aid, do not expose it to excessive heat. For example, do not leave the hearing aid in the sun in front of a window or in a car, even if the hearing aid is in the charger.

Long-term storage

Before you put away or store the hearing aid for a prolonged period of time (more than 14 days), ensure you first fully charge the hearing aid, and then turn it OFF. This way the battery can be charged again.

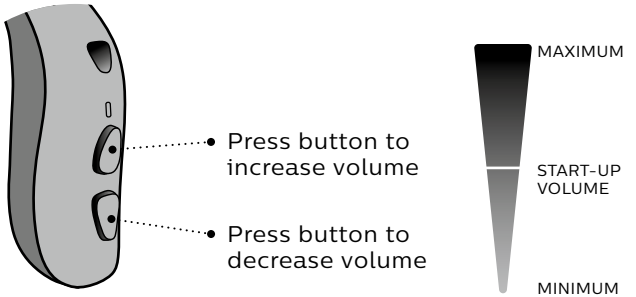
Note

To protect the rechargeable battery, it is necessary that you fully charge the hearing aid every six months. If a stored hearing aid is not charged within a six month period, the rechargeable battery must be replaced.

Change volume

The push button lets you adjust the volume. When you increase or decrease the volume, you hear a beep.

For information regarding button press times, see the table **General settings overview for your hearing aid**, in the **Your individual hearing aid settings** section at the end of this booklet.

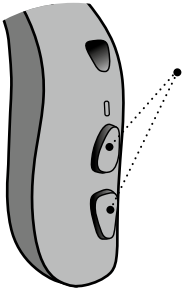


Change program

Your hearing aid can save up to four different programs configured by your hearing care professional. Depending on the program you choose (1,2,3 or 4), you hear one to four tones.

For information regarding tones, see the **Sound and LED light indicators** section.

For information regarding button press times see the table **General settings overview for your hearing aid**, in the **Your individual hearing aid settings** section at the end of this booklet.



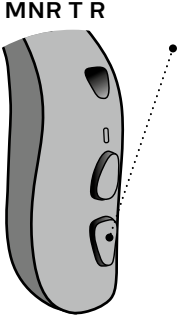
Press the push button to switch between programs.

The program cycle switches one program forward when the upper part of the push button is pressed,
for example program 1 to 2 or program 4 to 1.

If the lower part of the push button is pressed, the program cycle goes backward, for example 2 to 1 or program 1 to 4.

Flight mode

When Flight mode is activated, Bluetooth connectivity is turned OFF. However, the hearing aid is still turned ON and functioning. Be aware that pressing the push button on one hearing aid, activates Flight mode on both hearing aids. For more information about sounds and lights, see the **Sound and LED light indicators** section.



- **To activate and deactivate**

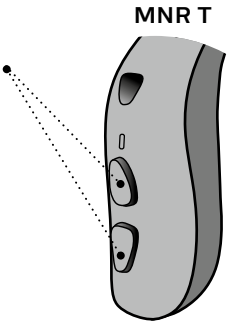
  Press and hold the lower part of the push button for seven seconds.

  Four descending tones, a short jingle and an LED light pattern confirm your action.

To activate and deactivate

Press and hold either end of the push button for at least seven seconds. A jingle and an LED light pattern confirm your action.

Opening and closing the battery drawer also deactivates Flight mode.



Mute your hearing aids

In both MNR T and MNR T R you can mute your hearing aids by using one of the following optional devices/app:

- HearLink App
- AudioClip
- Remote Control

How to unmute your hearing aids
You can unmute your hearing aids by using one of the optional devices/app or by applying a short press to the upper or lower part of the push button on the hearing aids.

MNR T only
You can also mute your hearing aids by pressing either end of the push button for four seconds.

IMPORTANT NOTICE

Do not use the mute function as an OFF button, as the hearing aid is still using battery power in this mode.

Using your hearing aid with iPhone, iPad and iPod

Philips HearLink is a Made for iPhone® hearing aid and allows for direct communication and control with iPhone, iPad® or iPod touch®.*

For assistance in using your hearing aid with any of these products, contact your hearing care professional.

Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple products identified in the badge, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that use of this Accessory with iPod, iPhone, or iPad may affect wireless performance.

*For a list of compatible iPhone, iPad, iPod touch and Android devices, visit the following website: hearingsolutions.philips.com/compatibility

Using your hearing aid with Android devices

Philips HearLink supports Audio Streaming for Hearing Aids (ASHA) and can be used for direct communication and control with selected Android™ devices.*

For assistance in using your hearing aid with Android devices, contact your hearing care professional.

Pairing and compatibility

For instructions on how to pair your hearing aid with iPhone, iPad, iPod touch or Android devices, visit the following website:

hearingsolutions.philips.com/support/how-to-faq/

For a list of compatible iPhone, iPad, iPod touch and Android devices, visit the following website:

hearingsolutions.philips.com/compatibility

Wireless accessories and other options

There are a range of accessories available as an enhancement to your wireless hearing aid. These enable you to hear and communicate better in everyday situations.

AudioClip
A device that can be used as remote microphone and hands-free headset when paired to your mobile phone.

TV Adapter
A device that streams sound from a TV or electronic audio device, to your hearing aids.

Remote Control
A device that lets you change program, adjust volume, or mute your hearing aids.

HearLink App
An application that lets you control your hearing aid from your mobile phone or tablet. For iPhone, iPad, iPod touch, and Android devices. Ensure that you only download and install HearLink App from the official app stores.

Telecoil


Telecoil can help you hear better when using a phone with a built-in loop or when in buildings with teleloop systems such as theaters, places of worship, or lecture rooms. This symbol is shown wherever a teleloop has been installed.

⚠ General warnings

For your personal safety and to ensure correct usage, you should familiarize yourself fully with the following general warnings before using your hearing aid.

Consult your hearing care professional if you experience unexpected operations or serious incidents with your hearing aid during use or because of its use. Your hearing care professional will support you with issue handling and, if relevant, reporting to the manufacturer and/or the national authorities.

Note that hearing aids do not restore normal hearing and do not prevent or improve a hearing impairment resulting from organic conditions. Hearing aids are only a part of hearing habilitation and may need to be supplemented by auditory training and instruction in lipreading. Furthermore, note that in most cases, infrequent use of a hearing aid does not permit a user to attain full benefit from it.

(MNR T R only)

Only charge the hearing aids with a designated charger. Other chargers risk destroying the hearing aids and batteries.

This hearing aid is supported by a non-removable rechargeable lithium-ion battery cell. Please ensure to charge the hearing aid and familiarize yourself with the safety and handling information related to rechargeable hearing aids.

Do not try to get access to the battery inserted in the hearing instrument. The battery must only be replaced by your hearing care professional.

Only charge the hearing aid with a designated charger. Other chargers risk destroying the hearing aid and battery.

Usage of hearing aids
Hearing aids should be used only as directed and adjusted by your hearing care professional. Misuse can result in sudden and permanent hearing loss.

Never allow others to wear your hearing aid, as incorrect usage could cause permanent damage to their hearing.

Choking hazards and risk of swallowing batteries or other small parts
Hearing aids, their parts and batteries should be kept out of reach of children and anyone who might swallow these items or otherwise cause injury to themselves.

If a battery to a hearing aid or CROS transmitter is swallowed, see a doctor immediately and contact the National Poison Center at 1-800-222-1222 or National Battery Ingestion Hotline at 1-800-498-8666.

(MNR T only)

Batteries have occasionally been mistaken for pills. Therefore, check your medicine carefully before swallowing any pills.

Most hearing aids can be supplied with a tamper-resistant battery drawer upon request. This is strongly recommended for infants, small children, and people with intellectual and developmental disabilities.

Battery use
Always use batteries recommended by your hearing care professional. Batteries of low quality may leak and cause bodily harm.

Never attempt to recharge your batteries and never dispose of batteries by burning them. There is a risk that the batteries will explode.

Continues on next page

⚠ General warnings

Explosives
(MNR T R only)

The hearing aid is safe to use under normal usage conditions. The hearing aid has not been tested for compliance with international standards concerning explosive environments.

Therefore, do not use the hearing aid in environments with danger of explosions e.g. mines, oxygen rich environments or areas where flammable anaesthetics are handled.

Fatality hazards and risk of swallowing lithium-ion batteries or placing them in the ear or nose
(MNR T R only)

Never swallow lithium-ion batteries nor place them in the ear or the nose as this may lead to serious injury or death in as little as two hours. This can be due to chemical burns, which can permanently damage the nose or ear or potentially
lead to perforation of the inner organs. If a lithium-ion battery is swallowed or placed in the ear or nose, seek emergency medical treatment immediately.

Rechargeable battery
(MNR T R only)

Do not attempt to open the hearing aid, as it may damage the battery.

Never attempt to replace the battery. If battery replacement is needed, please return your device to your hearing care professional. The service guarantee is void if there are signs of tampering.

In case of battery leakage do not wear your hearing aid, as it may cause skin irritation due to acids coming from the leaking battery. If your skin has been in contact with the leaked battery acids, use a wet cloth to wipe it off and ensure no acid is left on your skin. If you experience skin irritation, consult your doctor. For further handling instructions of your hearing instrument consult your hearing care professional.

The safety of recharging batteries using a USB connector is determined by the external signal source. When connected to external equipment plugged into a power socket, this equipment must comply with IEC 62368-1 or equivalent safety standards.

Dysfunction
Be aware of the possibility that your hearing aid may stop working without notice. Keep this in mind when you depend on warning sounds (e.g. when you are in traffic). The hearing aids may stop functioning, for instance if the batteries have expired or if the tubing is blocked by moisture or earwax.

Continues on next page

⚠ General warnings

Active implants
The hearing aid has been thoroughly tested and characterized for human health according to international standards for human exposure (Specific Absorption Ratio - SAR), induced electromagnetic power and voltages into the human body.

The exposure values are well below internationally accepted safety limits for SAR, induced electromagnetic power and voltages into the human body defined in the standards for human health and coexistence with active medical implants such as pacemakers and heart defibrillators.

If you have an active brain implant, please contact the manufacturer of your implantable device for information about the risk of disturbance.

The Autophone magnet or MultiTool (which has a built-in magnet) should be kept more than 30 centimeters (1 foot) away from the implant, e.g. do not carry it in your breast pocket.

Follow the guidelines recommended by the manufacturers of implantable defibrillators and pacemakers regarding their use with magnets.

Cochlear implants
If you are using a cochlear implant (CI) on one ear and a hearing aid on the other ear, make sure to always keep your CI at least a 1 centimeters (0,4 inches) distance from your hearing aid. The magnetic field from CI sound processors, coils and magnets may permanently damage the speaker unit in your hearing aid. Never place the devices close together on a table e.g. when cleaning or changing batteries. Do not carry the CI and the hearing aid together in the same box.

Detached earpiece in ear canal
If the earpiece is not on the speaker when removed from the ear, the earpiece may still be in the ear canal. For further instructions, consult your hearing care professional.

X-ray/CT/MR/PET scanning, electrotherapy and surgery
Remove your hearing aid before X-ray, CT/MR/PET scanning, electrotherapy, surgery, etc. as your hearing aid may be damaged when exposed to electromagnetic fields.

Heat and chemicals
The hearing aid must never be exposed to extreme heat, e.g. left inside a parked car in the sun.

The hearing aid must not be dried in microwave ovens or other ovens.

The chemicals in cosmetics, hairspray, perfume, aftershave lotion, sunscreen lotion, and insect repellent can damage the hearing aid. Always remove your hearing aid before applying such products and allow time to dry before use.

Connection to external equipment
The safety of the hearing aids, when connected to external equipment with USB cable and/or directly, is determined by the external signal source. When the hearing aids are connected to external equipment which is plugged into a power socket, this equipment must comply with IEC 62368-1 or equivalent safety standards.

Continues on next page

⚠ General warnings

Power hearing aid
Special care should be exercised in selecting, fitting, and using hearing aids where the maximum sound pressure capability exceeds 132 dB SPL (IEC 60138-4/IEC 711) as there may be a risk of impairing the remaining hearing of the hearing aids user.

For information on whether your instrument is a power hearing aid, see the model overview section in this booklet.

Possible side effects
Hearing aids, molds or domes may cause an accelerated accumulation of earwax.

The non-allergenic materials used in hearing aids may, in rare cases cause a skin irritation or other side effects.

If these conditions occur, seek consultation with a physician.

Use on aircraft
Your hearing aids have Bluetooth wireless technology. On board an aircraft, the hearing aids must be put into Flight mode to deactivate Bluetooth, unless Bluetooth is permitted by the flight personnel.

Use of third-party accessories
Only use accessories, transducers or cables supplied by the manufacturer. Non-original accessories may result in reduced electromagnetic compatibility (EMC) of your hearing aids.

Modification of hearing aids is not allowed
Changes or modifications not expressly approved by the manufacturer will void the warranty of the equipment.

Interference

The hearing aids have been thoroughly tested for interference according to the most stringent international standards.

Electromagnetic interference may occur in the vicinity of equipment with the symbol to the left. Portable and mobile RF (radio frequency) communications equipment can affect the performance of your hearing aids. If your hearing aids are affected by electromagnetic interference, move away from the source to reduce the interference.

⚠ General warnings

Warnings to hearing care professional
A hearing care professional should advise a prospective hearing aid user to consult immediately with a licensed physician (preferably an ear specialist) before dispensing a hearing aid if the hearing care professional determines through inquiry, actual observation, or review of any other available information concerning the prospective user, that the prospective user has any of the following conditions:

(i) Visible congenital or traumatic deformity of the ear.

(ii) History of active drainage from the ear within the previous 90 days.

(iii) History of sudden or rapidly progressive hearing loss within the previous 90 days.

(iv) Acute or chronic dizziness.

(v) Unilateral hearing loss of sudden or recent onset within the previous 90 days.

(vi) Audiometric air-bone gap equal to or greater than 15 decibels at 500 Hertz (Hz), 1,000 Hz, and 2,000 Hz.

(vii) Visible evidence of significant cerumen accumulation or a foreign body in the ear canal.

(viii) Pain or discomfort in the ear.

Special care should be exercised in selecting and fitting a hearing aid whose maximum sound pressure capability exceeds 132 dB SPL as there may be risk of impairing the remaining hearing of the hearing aid user.

Important notice for prospective hearing aid users

Good health practice requires that a person with a hearing loss have a medical evaluation by a licensed physician (preferably a physician who specializes in diseases of the ear) before purchasing a hearing aid. Licensed physicians who specialize in diseases of the ear are often referred to as Otolaryngologists, Otologists or Otorhinolaryngologists. The purpose of medical evaluation is to ensure that all medically treatable conditions that may affect hearing are identified and treated before the hearing aid is purchased. Following the medical evaluation, the physician will give you a written statement that states that your hearing loss has been medically evaluated and that you may be considered a candidate for a hearing aid. The physician will refer you to an audiologist or a hearing aid dispenser, as appropriate, for a hearing aid evaluation.

⚠ General warnings

The audiologist or hearing care professional will conduct a hearing aid evaluation to assess your ability to hear with and without a hearing aid. The hearing aid evaluation will enable the audiologist or dispenser to select and fit a hearing aid to your individual needs. If you have reservations about your ability to adapt to amplification, you should inquire about the availability of a trial, rental or purchase-option program. Many hearing care professionals now offer programs that permit you to wear a hearing aid for a period of time for a nominal fee, after which you may decide if you want to purchase the hearing aid. Federal law limits the sale of hearing aids to those individuals who have obtained a medical evaluation from a licensed physician.

Federal law permits a fully informed adult to sign a waiver statement declining the medical evaluation for religious or personal beliefs that preclude consultation with a physician. The exercise of such a waiver is not in your best health interest and its use is strongly discouraged. A hearing aid will not restore normal hearing and will not prevent or improve a hearing impairment resulting from organic conditions. A hearing aid is only part of hearing rehabilitation and may need to be supplemented by auditory training and lip reading.

Children with hearing loss

In addition to seeing a physician for medical evaluation, a child with a hearing loss should be directed to an audiologist for evaluation and rehabilitation, since hearing loss may cause problems in language development and educational and social growth of a child. An audiologist is qualified by training and experience to assist in the evaluation and rehabilitation of a child with a hearing loss. If the user is an infant, small child, or person with cognitive impairment, it is recommended that the hearing aid be modified with a tamper-resistant battery compartment.

Troubleshooting

MNR T R/T

Symptom	Possible causes
No sound	Hearing aid is out of power
	Dead battery
	Clogged earpieces (dome, Grip Tip, or mold)
	Hearing aid microphone muted
Intermittent or reduced sound	Clogged sound outlet
	Moisture
Squealing noise	Hearing aid earpiece incorrectly inserted
	Earwax accumulated in ear canal
Beeping	If your hearing aid plays eight beeps, four times consecutively, your hearing aid needs a microphone service check
Pairing issue with smartphone	Bluetooth connection failed
	Only one hearing aid is paired

Solutions
Charge the hearing aid (**MNR T R only**) / Replace the battery (**MNR T only**)
Contact your hearing care professional (**MNR T R only**) / Replace the battery (**MNR T only**)
Clean mold Replace wax filter, dome, or Grip Tip
Unmute the hearing aid microphone
Clean mold or replace wax filter, dome, or Grip Tip
Gently wipe the hearing aid and let it dry
Re-insert the earpiece
Have ear canal examined by your doctor
Contact your hearing care professional
1) Unpair your hearing aid **2)** On your phone, turn Bluetooth OFF and ON again **3)** Turn the hearing aid OFF and then turn it back ON **4)** Pair your hearing aid again (For guidance, visit: hearingsolutions.philips.com/support/how-to-faq/)

Note
If none of the above solutions work, consult your hearing care professional.

Continues on next page

Troubleshooting

MNR T R only — To troubleshoot the charger, see your charger's instructions for use.

Symptom	Possible causes
The hearing aid LED light remains turned OFF when the hearing aid is placed in the charger	The charger is not turned ON
	The hearing aid or charger's temperature is either too warm or too cold
	Charging is incomplete. The room temperature exceeds +35°C (+95°F), which prolongs the charging time. The charger has stopped charging to protect the battery.
	The hearing aid is incorrectly seated in the charger
The hearing aid LED light blinks GREEN when the hearing aid is placed in the charger	Hearing aid has not been in use for a prolonged period of time
The hearing aid LED light blinks ORANGE when the hearing aid is placed in the charger	System error

Solutions
Verify that the charger's power plug is correctly connected or the power bank has enough battery
Move the charger and hearing aid to a location with a temperature between +5°C and +40°C (+41°F and +104°F)
Reinsert the hearing aid into the charger. This completes the charging within approximately 15 minutes.
Check the charging ports for foreign objects
Depending on how depleted the battery in the hearing aid is, the hearing aid automatically resumes normal charging mode after a timeframe of up to 10 minutes. Ensure you leave the hearing aids in the charger during this process.
Contact your hearing care professional

Note
If none of the above solutions work, consult your hearing care professional.

Water & dust resistant (IP68)

Your hearing aid is dust tight and protected against ingress of water, which means it is designed to be worn
in all daily life situations.

The water and dust resistance means you do not have to worry about your hearing aid getting wet when it rains, or if it comes into contact with sweat.

Before charging the hearing aid make sure to wipe off any moisture.

Should your hearing aid come into contact with water and stop working, gently wipe off any water and let the hearing aid dry.

IMPORTANT NOTICE

Do not wear your hearing aid while showering or participating in water activities. Do not immerse your hearing aid in water or other liquids.

Conditions of use

(MNR T R only)

Operating conditions	Temperature: +5°C to +40°C (41°F to 104°F) Humidity: 5% to 93% relative humidity, non-condensing Atmospheric pressure: 700 hPa to 1060 hPa
Charging conditions	Temperature: +5°C to +40°C (41°F to 104°F) Humidity: 5% to 93% relative humidity, non-condensing Atmospheric pressure: 700 hPa to 1060 hPa
Transportation and storage conditions	Temperature and humidity shall not exceed the below limits for extended periods during transportation and storage: **Transportation:** Temperature: -20°C to +60°C (-4°F to 140°F) Humidity: 5% to 93% relative humidity, non-condensing Atmospheric pressure: 700 hPa to 1060 hPa **Storage:** Temperature: -20°C to +30°C (-4°F to 86°F) Humidity: 5% to 93% relative humidity, non-condensing Atmospheric pressure: 700 hPa to 1060 hPa

Note

For more information about the charger's conditions of use, see your charger's instructions for use.

Conditions of use

(MNR T only)

Operating conditions	Temperature: +1°C to +40°C (34°F to 104°F) Humidity: 5% to 93% relative humidity, non-condensing Atmospheric pressure: 700 hPa to 1060 hPa
Transportation and storage conditions	Temperature and humidity shall not exceed the below limits for extended periods during transportation and storage: **Transportation:** Temperature: -25°C to +60°C (-13°F to 140°F) Humidity: 5% to 93% relative humidity, non-condensing Atmospheric pressure: 700 hPa to 1060 hPa **Storage:** Temperature: -25°C to +60°C (-13°F to 140°F) Humidity: 5% to 93% relative humidity, non-condensing Atmospheric pressure: 700 hPa to 1060 hPa

Technical information

The hearing aid contains the following two radio technologies:

The hearing aid contains a radio transceiver using short range magnetic induction technology operating at 3.84 MHz. The magnetic field strength of the transmitter is very weak and always below 15 nW (typically below –40 dBµA/m (–12.20 dBµA/ft) at 10 meters (33 feet) distance).

The hearing aid also contains a radio transceiver using Bluetooth Low Energy technology and a proprietary short-range radio technology, both operating at ISM band 2.4 GHz.

(MNR T R)
The radio transmitter is weak and always below 9 mW equal to 9.6 dBm in total radiated power.

(MNR T only)
The radio transmitter is weak and always below 9 mW equal to 9.6 dBm in total radiated power.

The hearing aid complies with international standards concerning electromagnetic compatibility and human exposure. Only use your hearing aid in areas where wireless transmission is permitted.

Due to the limited space available on the hearing aid, relevant approval markings can be found in this booklet. Additional information can be found in the Specification Guide on hearingsolutions.philips.com

USA and Canada
(MNR T R only)
This device contains a radio module (DA AU5 MNR R) with the following certification ID numbers:
FCC ID: 2ACAHAU5MRTRC
IC: 11936A-AU5MRTRC

USA and Canada
(MNR T only)
This device contains a radio module (MI AU5 MNR T) with the following certification ID numbers:
FCC ID: 2ACAHAU5MNRT
IC: 11936A-AU5MNRT

Radio frequency radiation exposure information
For body-worn operation, this device meets FCC and Innovation, Science and Economic Development Canada's RF exposure limits and has been tested while in contact with the human body. Use of other accessories not verified by the manufacturer may not ensure compliance with FCC and Innovation, Science and Economic Development Canada's RF exposure guidelines. the device must not be co-located or used in conjunction with any other antenna or transmitter.

Note:
The device complies with Part 15 of the FCC rules and with Innovation, Science and Economic Development Canada's license -exempt RSSs standards.
Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Changes or modifications not expressly approved by party responsible for compliance could void the user's authority to operate the equipment.

Mobile phone

Some hearing aid users have reported a buzzing sound in their hearing aid when they are using cell phones, indicating that the cell phone and hearing aid may not be compatible.

The ANSI C63.19 standard determines the prediction of compatibility between a specific hearing aid and a mobile phone by: adding the numerical value of the rating for the hearing aid immunity to the numerical value of the rating for the cell phone emissions. A sum of 4 would indicate that the combination of wireless device and hearing aid is usable; a combined rating that equals at least 5 would provide normal use; a combined rating of 6 or greater would indicate excellent performance.

Whereas all hearing aids have acoustic coupling, only the larger hearing aids have the physical space for telecoil (inductive) coupling. These two types of coupling have different rating scales (M1-M4 for acoustic coupling and T1-T4 for telecoil coupling, respectively) and both ratings are therefore relevant when predicting the compatibility of a particular hearing aid.

For a hearing aid with both acoustic coupling and telecoil coupling with a rating of M4/T2 and with a telephone rating of M3/T3), the combined rating is 7 (M4 + M3) for the acoustic coupling and 5 (T2 + T3) for the telecoil coupling. According to the guideline given above, both types of coupling will thereby be acceptable, with the acoustic coupling indicating excellent

performance and the telecoil coupling indicating normal use.
The above equipment performance measurements, categories and system classifications are based upon the best information available, but it cannot be guaranteed that all users will be satisfied.

The immunity of this hearing aid is at least M2/T2. The equipment performance measurements, categories and system classifications are based upon the best information available but cannot guarantee that all users will be satisfied.

IMPORTANT NOTICE

The performance of an individual hearing aid may vary with individual cell phones. Therefore, ensure you try this hearing aid with your mobile phone or, if you are purchasing a new phone, be sure to try it with your hearing aid prior to purchase. For additional guidance, please ask your cell phone provider for the booklet entitled “Hearing Aid Compatibility with Digital Wireless Cell Phones”.

The manufacturer declares that this hearing aid is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

This medical device complies with Medical Device Regulation (EU) 2017/745.

Declaration of Conformity is available from the headquarters.

SBO Hearing A/S
Kongebakken 9
DK-2765 Smørum
Denmark
hearingsolutions.philips.com/doc

CE 0123

Bluetooth®

SBO Hearing A/S
Kongebakken 9
DK-2765 Smørum
Denmark

Waste from electronic equipment must be handled according to local regulations.

IP68

Description of symbols and abbreviations used in this booklet	
	**Warnings** Text marked with a warning symbol must be read before using the device.
	**Manufacturer** The device is produced by the manufacturer whose name and address are stated next to the symbol. Indicates the medical device manufacturer, as defined in EU Regulations 2017/745.
CE 0123	**CE mark** The device complies with all required EU regulations and directives. The four digit number indicates the identification of the notified body.
	**Electronic waste (WEEE)** Recycle hearing aids, accessories or batteries according to local regulations. Hearing aid users can also return electronic waste to their hearing care professional for disposal. Electronic equipment covered by Directive 2012/19/EU on waste and electrical equipment (WEEE).
	**Regulatory Compliance Mark (RCM)** The device complies with electrical safety, EMC and radio spectrum requirements for devices supplied to the Australian or New Zealand markets.
IP68	**IP code** Indicates the class of protections against harmful ingress of water and particulate matter according to EN 60529. IP6X indicates total dust protection. IPX8 indicates the protection against the effects of continuous immersion in water.
Bluetooth®	**Bluetooth logo** Registered trademark of Bluetooth SIG, Inc. where any use of such requires a license.

Description of symbols and abbreviations used in this booklet	
Made for iPhone | iPad | iPod	**Made for Apple badges** Indicates that the device is compatible with iPhone, iPad and iPod touch.
Android	**Android badge** Indicates that the device is compatible with Android.
	**Hearing loop** This logo incorporates the universal symbol for hearing assistance. The “T” signifies that a hearing loop is installed.
	**Radio Frequency (RF) transmitter** Your hearing aid contains an RF transmitter.
GTIN	**Global Trade Item Number** A globally unique 14-digit number used to identify medical device products including medical device software. GTIN in this booklet is related to medical device firmware (FW). GTIN on regulatory packaging label is related to medical device hardware.

REACH Declaration

REACH requires Philips Hearing Solutions to provide chemical content information for Substances of Very High Concern (SVHC) if they are present above 0.1% of the article weight. Recent information can be found on the website hearingsolutions.philips.com/REACH.

Description of additional symbols used on labels	
	**Keep dry** Indicates a medical device that needs to be protected from moisture.
	**Caution symbol** Consult instructions for use for warnings and cautions.
	**Catalog number** Indicates the manufacturer's catalog number so that the medical device can be identified.
	**Serial number** Indicates the manufacturer's serial number so that a specific medical device can be identified.
	**Medical Device** The device is a medical device.
	**Battery recycling symbol** Li-ion battery recycling symbol.
	**Temperature limit** Indicates the temperature limits to which the medical device can be safely exposed.
	**Humidity limitation** Indicates the range of humidity to which the medical device can be safely exposed.
	**Radio Frequency Identification** Indicates the presence of a passive radio-frequency identification tag incorporated into the device for manufacturing and service purposes.

International warranty

Your device is covered by an international warranty issued by the manufacturer. This international warranty covers manufacturing and material defects in the device itself, but not in accessories such as batteries, tubing, speakers, earpieces and filters, etc. Problems arising from improper/incorrect handling or care, excessive use, accidents, repairs made by an unauthorized party, exposure to corrosive conditions, physical changes in your ear, damage due to foreign objects entering the device, or incorrect adjustments are NOT covered by the international warranty and may void it. The above international warranty does not affect any legal rights that you might have under applicable national legislation governing the sale of consumer goods in the country where you have bought your device. Your hearing care professional may also have issued a warranty that goes beyond the clauses of this international warranty. Please consult him/her for further information.

If you need service

Take your device to your hearing care professional, who may be able to sort out minor problems and adjustments immediately. Your hearing care professional may charge a fee for their services.

Warranty

Certificate

Name of owner: _____

Hearing care professional:_____

Hearing care professional's address: _____

Hearing care professional's phone: _____

Purchase date:_____

Warranty period:_____Month: _____

Model left: _____Serial no.: _____

Model right:_____Serial no.: _____

Your individual hearing aid settings

To be filled out by your hearing care professional.

General settings overview for your hearing aid				
Left			**Right**	
☐ Yes	☐ No	Change volume	☐ Yes	☐ No
☐ Yes	☐ No	Change program	☐ Yes	☐ No
☐ Short press			☐ Short press	
☐ Long press			☐ Long press	
Volume control indicators				
☐ ON	☐ OFF	Beeps at min/max volume	☐ ON	☐ OFF
☐ ON	☐ OFF	Beeps when changing volume	☐ ON	☐ OFF
☐ ON	☐ OFF	Beeps at start-up volume	☐ ON	☐ OFF
Battery indicators				
☐ ON	☐ OFF	Low battery warning	☐ ON	☐ OFF

Sound and LED light indicators

Different sounds and light patterns indicate the hearing aid status. The different indicators are listed on the following pages. For light indicators on your charger, see the charger's instructions for use.

Your hearing care professional can set sound and LED light indicators to match your preferences.

Program	☐ Sound	☐ LED light*	When to use
1	1 tone	◯	
2	2 tones	◯ ◯	
3	3 tones	◯ ◯ ◯	
4	4 tones	◯ ◯ ◯ ◯	

◯ Short GREEN blink

*LED light blinks continuously or is repeated three times with short pauses

Continues on next page

ON/OFF	Sound	LED light	LED light comments
ON	☐ Jingle	☐ 	Shown once
OFF **(MNR T R only)**	☐ 4 descending tones	☐ 	
Volume	**Sound**	**LED light**	
Start-up volume	☐ 2 beeps	☐ 	
Minimum/maximum volume	☐ 3 beeps	☐ 	
Volume up/down	☐ 1 beep	☐ 	
Mute		☐ 	Continuous or repeated three times

 Long GREEN blink  Short GREEN blink

 Long ORANGE blink  Short ORANGE blink

Accessories	☐ Sound	☐ LED light	LED light comments
TV Adapter	2 different tones		Continuous or repeated three times
AudioClip	2 different tones		
Flight mode	**☐ Sound**	**☐ LED light**	
Flight mode activated **(MNR T R only)**	4 descending tones + short jingle		
Flight mode deactivated **(MNR T R only)**	4 descending tones + short jingle	 *	
Flight mode activated **(MNR T only)**	Short jingle		
Flight mode deactivated **(MNR T only)**	Short jingle	 *	

Long GREEN blink Short GREEN blink

Long ORANGE blink Short ORANGE blink

*Only available when three-time repetition is selected

Continues on next page

Warnings	Sound	LED light	LED light comments
Low battery	☐ 3 alternate beeps		Continuously blinking
Battery shut down	4 descending tones		
Microphone service check needed	8 beeps repeated 4 times		Repeated four times
The hearing aid LED light does not turn ON when the hearing aid is placed in the charger **(MNR T R only)**		Turned OFF	See the **Troubleshooting** section

Warnings	Sound	LED light	LED light comments
The hearing aid LED light blinks ORANGE when the hearing aid is placed in the charger **(MNR T R only)**			Continuously blinking. See the **Troubleshooting** section.
The hearing aid LED light blinks GREEN when the hearing aid is placed in the charger **(MNR T R only)**			Continuously blinking. See the **Troubleshooting** section.

 Long GREEN blink  Short GREEN blink

 Long ORANGE blink  Short ORANGE blink

60

Measured according to American National Standard ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

Supply voltage: Lithium-ion

0 dB SPL ref. 20 mPa	Philips HearLink 9030	Philips HearLink 7030 & 5030
Peak OSPL90	106 dB SPL	106 dB SPL
HF Average OSPL90	103 dB SPL	103 dB SPL
Peak Full-on Gain	36 dB	36 dB
HF Average Full-on Gain	30 dB	30 dB
Reference Test Gain	26 dB	26 dB
Frequency Range	100-9400 Hz	100-7500 Hz
Total Harmonic Distortion 500 Hz	<2 %	<2 %
Total Harmonic Distortion 800 Hz	<2%	<2%
Total Harmonic Distortion 1600 Hz	<2 %	<2 %
Equivalent Input Noise Level (omni/dir)	17/28 dB SPL	17/29 dB SPL
HF Average SPLITS (left/right ear)	83/83 dB SPL	83/83 dB SPL
Attack Time	5 ms	5 ms
Release Time	18 ms	21 ms

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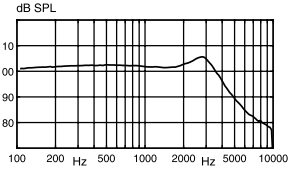
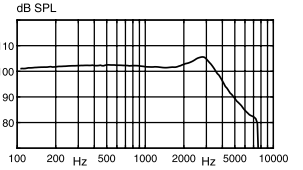
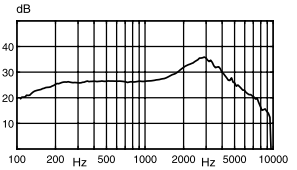
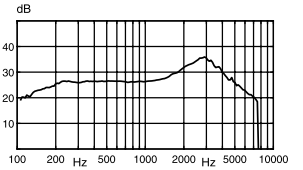
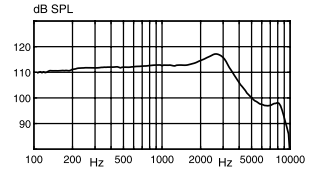
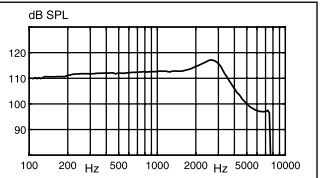
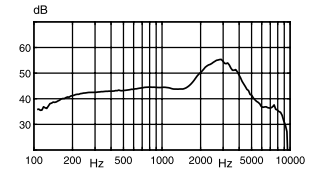
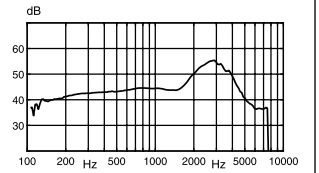
	Philips HearLink 9030	Philips HearLink 7030 & 5030
OSPL90 – Output Sound Pressure Level Input: 90 dB SPL. Technical setting: A0		
Full-on Gain Input: 50 dB SPL. Technical setting: A0		

Measured according to American National Standard ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

Supply voltage: Lithium-ion

0 dB SPL ref. 20 mPa	Philips HearLink 9030	Philips HearLink 7030 & 5030
Peak OSPL90	117 dB SPL	117 dB SPL
HF Average OSPL90	114 dB SPL	114 dB SPL
Peak Full-on Gain	55 dB	55 dB
HF Average Full-on Gain	48 dB	48 dB
Reference Test Gain	37 dB	37 dB
Frequency Range	100-8900 Hz	100-7500 Hz
Total Harmonic Distortion 500 Hz	<2 %	<2 %
Total Harmonic Distortion 800 Hz	<2%	<2%
Total Harmonic Distortion 1600 Hz	<2 %	<2 %
Equivalent Input Noise Level (omni/dir)	18/28 dB SPL	18/27 dB SPL
HF Average SPLITS (left/right ear)	94/94 dB SPL	94/94 dB SPL
Attack Time	5 ms	5 ms
Release Time	18 ms	18 ms

	Philips HearLink 9030	Philips HearLink 7030 & 5030
OSPL90 – Output Sound Pressure Level Input: 90 dB SPL. Technical setting: A0		
Full-on Gain Input: 50 dB SPL. Technical setting: A0		

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Measured according to American National Standard ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

Supply voltage: Lithium-Ion

0 dB SPL ref. 20 mPa	Philips HearLink 9030	Philips HearLink 7030 & 5030
Peak OSPL90	124 dB SPL	124 dB SPL
HF Average OSPL90	120 dB SPL	120 dB SPL
Peak Full-on Gain	57 dB	57dB
HF Average Full-on Gain	53 dB	53 dB
Reference Test Gain	42 dB	42 dB
Frequency Range	100-7500 Hz	100-7500 Hz
Total Harmonic Distortion 500 Hz	<2 %	<2 %
Total Harmonic Distortion 800 Hz	<2%	<2%
Total Harmonic Distortion 1600 Hz	<2 %	<2 %
Equivalent Input Noise Level (omni/dir)	16/28 dB SPL	17/29 dB SPL
HF Average SPLITS (left/right ear)	100/100 dB SPL	100/100 dB SPL
Attack Time	4 ms	3 ms
Release Time	7 ms	8 ms

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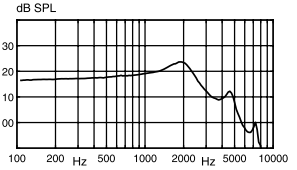
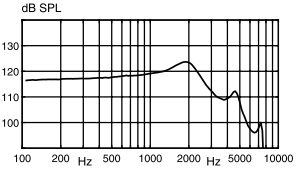
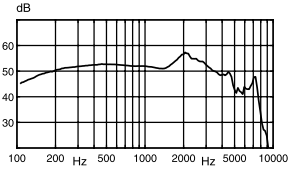
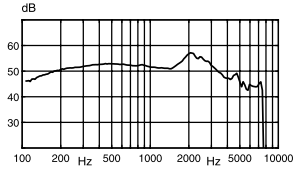
	Philips HearLink 9030	Philips HearLink 7030 & 5030
OSPL90 – Output Sound Pressure Level Input: 90 dB SPL. Technical setting: A0		
Full-on Gain Input: 50 dB SPL. Technical setting: A0		

105

Measured according to American National Standard ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

Supply voltage: Lithium-Ion

0 dB SPL ref. 20 mPa	Philips HearLink 9030	Philips HearLink 7030 & 5030
Peak OSPL90	127 dB SPL	127 dB SPL
HF Average OSPL90	123 dB SPL	123 dB SPL
Peak Full-on Gain	64 dB	64dB
HF Average Full-on Gain	58 dB	58 dB
Reference Test Gain	47 dB	47dB
Frequency Range	100-7900 Hz	100-7500 Hz
Total Harmonic Distortion 500 Hz	<2 %	<2 %
Total Harmonic Distortion 800 Hz	<2%	<2%
Total Harmonic Distortion 1600 Hz	<2 %	<2 %
Equivalent Input Noise Level (omni/dir)	16/28 dB SPL	16/28 dB SPL
HF Average SPLITS (left/right ear)	105/105 dB SPL	104/104 dB SPL
Attack Time	4 ms	4 ms
Release Time	14 ms	15 ms

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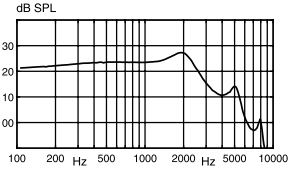
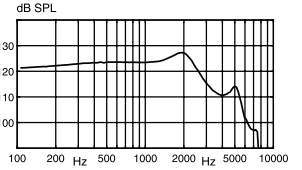
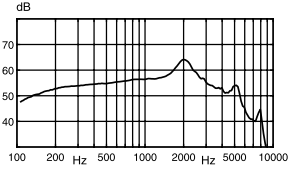
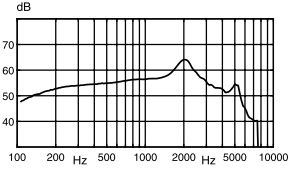
	Philips HearLink 9030	Philips HearLink 7030 & 5030
OSPL90 – Output Sound Pressure Level Input: 90 dB SPL. Technical setting: A0		
Full-on Gain Input: 50 dB SPL. Technical setting: A0		

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Measured according to American National Standard ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

Supply voltage: Zinc-Air

0 dB SPL ref. 20 mPa	Philips HearLink 9030	Philips HearLink 7030 & 5030
Peak OSPL90	105 dB SPL	105 dB SPL
HF Average OSPL90	103 dB SPL	103 dB SPL
Peak Full-on Gain	36 dB	36 dB
HF Average Full-on Gain	30 dB	30 dB
Reference Test Gain	26 dB	26 dB
Frequency Range	100-9400 Hz	100-7500 Hz
Total Harmonic Distortion 500 Hz	<2 %	<2 %
Total Harmonic Distortion 800 Hz	<2%	<2%
Total Harmonic Distortion 1600 Hz	<2 %	<2 %
Equivalent Input Noise Level (omni/dir)	16/27 dB SPL	16/27 dB SPL
HF Average SPLITS (left/right ear)	85/85 dB SPL	85/85 dB SPL
Attack Time	5 ms	5 ms
Release Time	32 ms	30 ms

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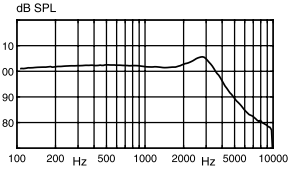
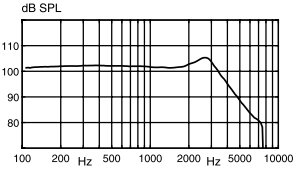
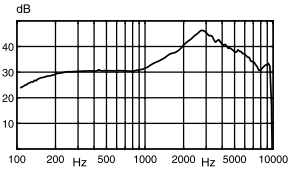
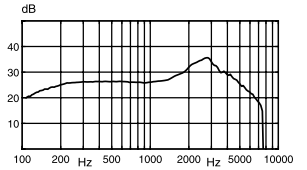
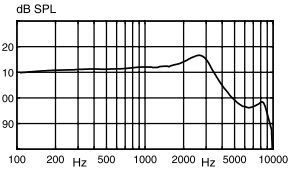
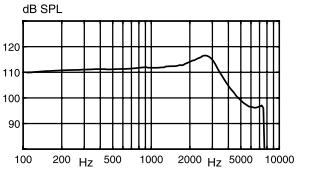
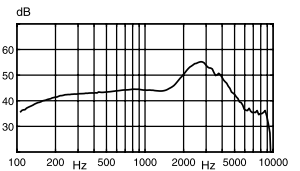
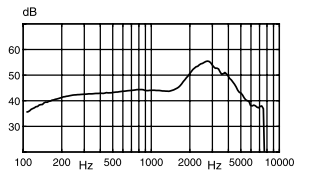
	Philips HearLink 9030	Philips HearLink 7030 & 5030
OSPL90 – Output Sound Pressure Level Input: 90 dB SPL. Technical setting: A0		
Full-on Gain Input: 50 dB SPL. Technical setting: A0		

Measured according to American National Standard ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

Supply voltage: Zinc-Air

0 dB SPL ref. 20 mPa	Philips HearLink 9030	Philips HearLink 7030 & 5030
Peak OSPL90	117 dB SPL	117 dB SPL
HF Average OSPL90	114 dB SPL	114 dB SPL
Peak Full-on Gain	55 dB	55 dB
HF Average Full-on Gain	48 dB	48 dB
Reference Test Gain	37 dB	37 dB
Frequency Range	100-8900 Hz	100-7500 Hz
Total Harmonic Distortion 500 Hz	<2 %	<2 %
Total Harmonic Distortion 800 Hz	<2%	<2%
Total Harmonic Distortion 1600 Hz	<2 %	<2 %
Equivalent Input Noise Level (omni/dir)	17/27 dB SPL	17/27 dB SPL
HF Average SPLITS (left/right ear)	96/96 dB SPL	96/96 dB SPL
Attack Time	5 ms	5 ms
Release Time	30 ms	33 ms

	Philips HearLink 9030	Philips HearLink 7030 & 5030
OSPL90 – Output Sound Pressure Level Input: 90 dB SPL. Technical setting: A0		
Full-on Gain Input: 50 dB SPL. Technical setting: A0		

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Measured according to American National Standard ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

Supply voltage: Zinc-Air

0 dB SPL ref. 20 mPa	Philips HearLink 9030	Philips HearLink 7030 & 5030
Peak OSPL90	123 dB SPL	123 dB SPL
HF Average OSPL90	119 dB SPL	119 dB SPL
Peak Full-on Gain	57 dB	57dB
HF Average Full-on Gain	53 dB	53 dB
Reference Test Gain	42 dB	42 dB
Frequency Range	100-7500 Hz	100-7500 Hz
Total Harmonic Distortion 500 Hz	<2 %	<2 %
Total Harmonic Distortion 800 Hz	<2%	<2%
Total Harmonic Distortion 1600 Hz	<2 %	<2 %
Equivalent Input Noise Level (omni/dir)	16/28 dB SPL	16/28 dB SPL
HF Average SPLITS (left/right ear)	101/101 dB SPL	101/101 dB SPL
Attack Time	8 ms	9 ms
Release Time	15 ms	16 ms

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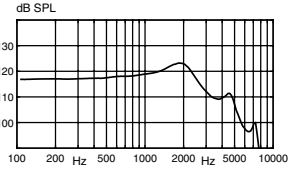
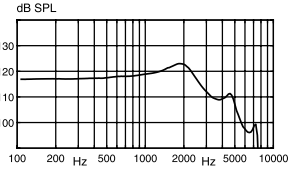
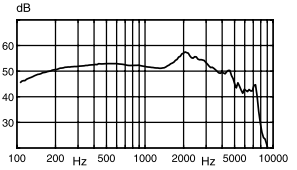
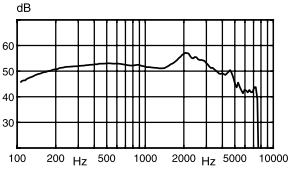
	Philips HearLink 9030	Philips HearLink 7030 & 5030
OSPL90 – Output Sound Pressure Level Input: 90 dB SPL. Technical setting: A0		
Full-on Gain Input: 50 dB SPL. Technical setting: A0		

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Measured according to American National Standard ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

Supply voltage: Zinc-Air

0 dB SPL ref. 20 mPa	Philips HearLink 9030	Philips HearLink 7030 & 5030
Peak OSPL90	127 dB SPL	127 dB SPL
HF Average OSPL90	123 dB SPL	123 dB SPL
Peak Full-on Gain	64 dB	64dB
HF Average Full-on Gain	58 dB	58 dB
Reference Test Gain	47 dB	47dB
Frequency Range	100-7900 Hz	100-7500 Hz
Total Harmonic Distortion 500 Hz	<2 %	<2 %
Total Harmonic Distortion 800 Hz	<2%	<2%
Total Harmonic Distortion 1600 Hz	<2 %	<2 %
Equivalent Input Noise Level (omni/dir)	16/27 dB SPL	16/27 dB SPL
HF Average SPLITS (left/right ear)	106/106 dB SPL	106/106 dB SPL
Attack Time	4 ms	5 ms
Release Time	24 ms	24 ms

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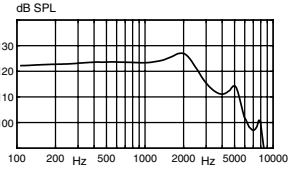
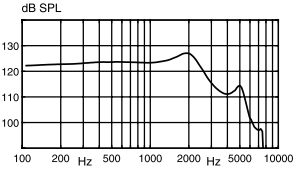
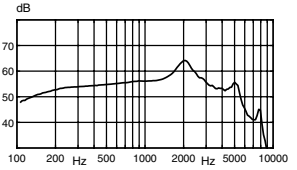
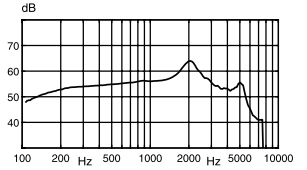
	Philips HearLink 9030	Philips HearLink 7030 & 5030
OSPL90 – Output Sound Pressure Level Input: 90 dB SPL. Technical setting: A0		
Full-on Gain Input: 50 dB SPL. Technical setting: A0		

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