

Instructions for use

Oticon CROS



Model overview

This booklet is valid for Oticon CROS and covers both CROS and BiCROS.

- ☐ CROS
- ☐ BiCROS

Oticon CROS is to be used with a compatible Oticon hearing aid that has either a single push button or a double push button for volume control.

- ☐ Single push button
- ☐ Double push button

For an overview of which hearing aids Oticon CROS is compatible with, please go to www.oticon.global/compatibility

Introduction to this booklet

This booklet gives you guidance on how to use and maintain your new transmitter. Please read the booklet carefully, including the **Warnings** section. This will help you get the full benefit of your new transmitter.

Your hearing care professional has adjusted the transmitter to meet your needs. If you have further questions, please contact your hearing care professional.

For your convenience, this booklet contains a navigation bar to help you easily navigate through the different sections.

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Intended use

The transmitter is intended to transmit sound from the poorer ear to a hearing aid placed on the better ear.

The transmitter is intended to be used by adults and children older than 36 months together with a hearing aid.

IMPORTANT NOTICE

For details on the functionality of the hearing aid, please refer to the hearing aid's Instruction for use.

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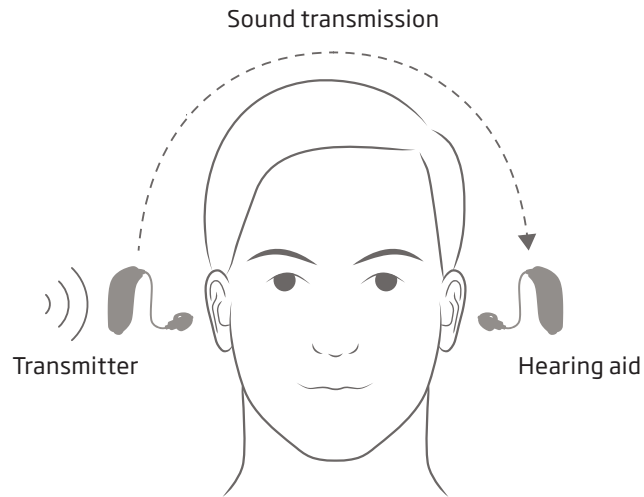
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CROS solution

A CROS or BiCROS solution consists of a transmitter and a hearing aid. The transmitter is placed on the poorer ear. It wirelessly sends sound from the poorer ear surroundings to the hearing aid placed on the better ear. The transmitter only works with certain Oticon hearing aids.

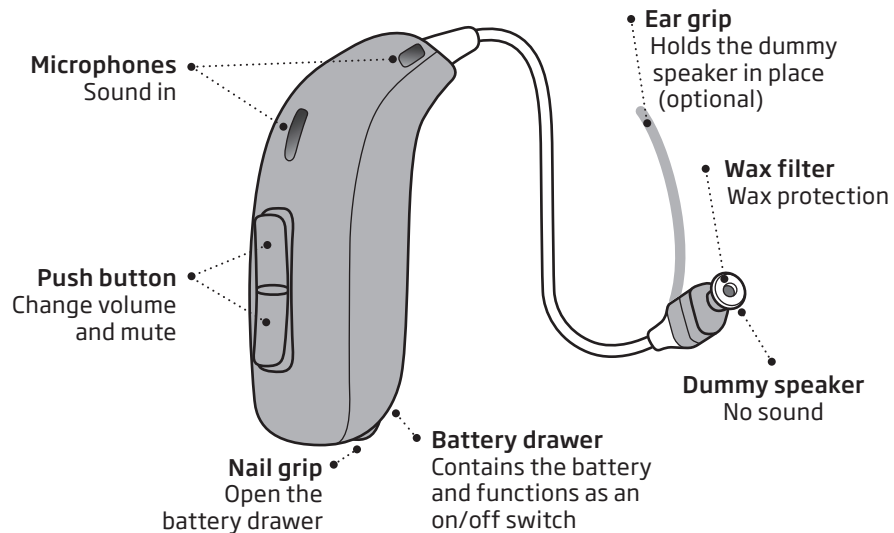
CROS (Contralateral Routing of Signals) is a solution for people with limited or no hearing in one ear combined with normal hearing in the opposite ear.

BiCROS (Bilateral Contralateral Routing of Signals) is a solution for people with limited or no hearing in one ear and hearing loss in the opposite ear.



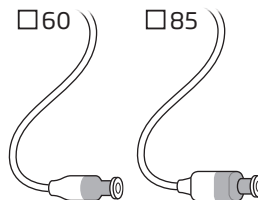
Your transmitter

What it is and what it does

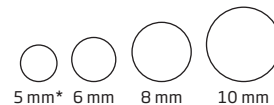


The dummy speaker has no acoustic purpose. The choice of size depends on what fits best in your ear.

Dummy speakers



Dome sizes



* Only for dummy speaker 60

The dummy speaker uses an open dome as shown below. This helps the transmitter stay in your ear.

Earpiece

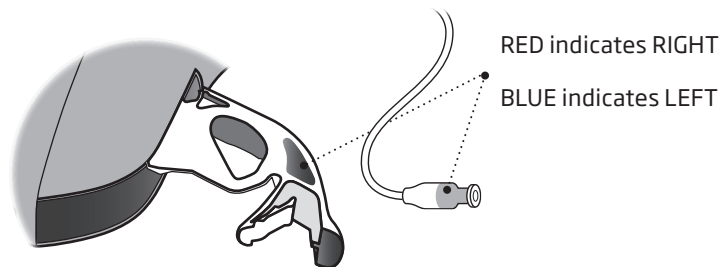


Please see details for replacing the dome in section: Replace the earpiece.

Left/right identification

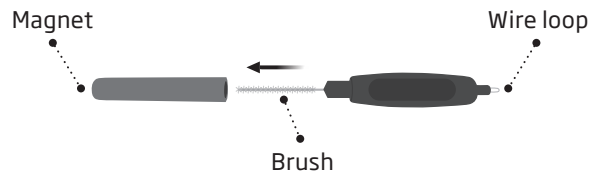
It is important to distinguish between the transmitter and the hearing aid. The left/right colour indicator helps you distinguish between left and right.

On the transmitter, you can find left/right colour indicators in the battery drawer. On the dummy speaker it is located as shown.



MultiTool for handling batteries and cleaning

The MultiTool contains a magnet that makes it easier to replace the battery in the transmitter. It also contains a brush and wire loop for cleaning and removing earwax. If you need a new MultiTool, please contact your hearing care professional.



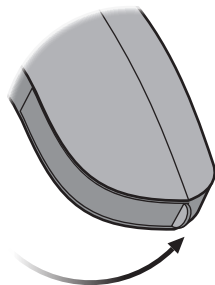
IMPORTANT NOTICE

The MultiTool has a built-in magnet. Keep the MultiTool at least 30 cm away from credit cards and other magnetically sensitive devices.

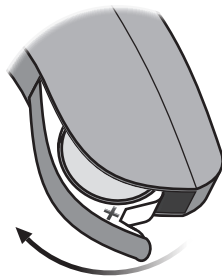
Turn the transmitter ON and OFF

The battery drawer is used to switch your transmitter on and off. To save battery life, make sure the transmitter is switched off when you are not wearing it. If you wish to return to the standard settings, simply open and close the battery drawer.

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





Turn OFF
Open the
battery drawer.



When to replace the battery

When it is time to replace the battery in the transmitter, you will hear three alternate high pitch tones in the hearing aid. They will be repeated in moderate intervals until the battery runs out.

 **Three alternate tones**
= The battery is running low

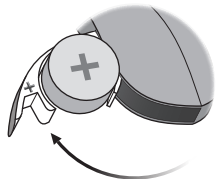
 **Four descending tones**
= The battery has run out

Battery tip

Keep a spare battery on you at all times to ensure your transmitter always works.

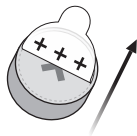
How to replace the battery (size 312)

1. Remove



Fully open the battery drawer. Remove the battery.

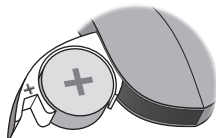
2. Uncover



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

Tip:
Wait 2 minutes for the battery to draw air to ensure optimal functioning.

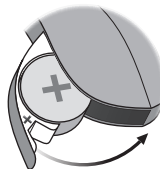
3. Insert



Insert the new battery into the battery drawer. Make sure the + side is facing up.

Insert it from above, NOT from the side.

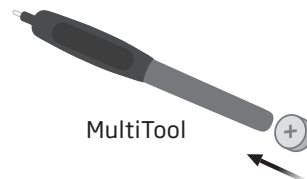
4. Close



Close the battery drawer.

If the transmitter is within range of the hearing aid, you will hear a jingle in the hearing aid.

Tip



The MultiTool can be used to change the battery. Use the magnetic end to remove and insert batteries.

The MultiTool is provided by your hearing care professional.

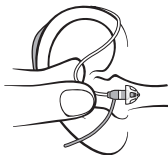
Put on the transmitter

Step 1



Place the transmitter behind your ear.

Step 2



Hold the bend of the dummy speaker wire between your thumb and index finger. The earpiece should point towards opening of the ear canal.

Step 3



Gently push the earpiece into your ear canal until the dummy speaker wire sits close to your head. If the dummy speaker has an ear grip, place it in the ear so it follows the contour of the ear.

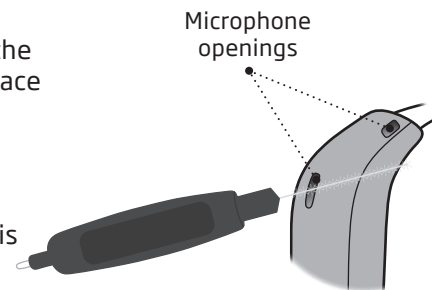
Caring for the transmitter

When handling your transmitter, hold it over a soft surface to avoid damage if you drop it.

Clean the microphone openings

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

Make sure that no parts of the MultiTool are squeezed into the microphone openings by force. This may damage the transmitter.



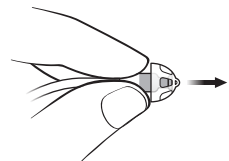
IMPORTANT NOTICE

Use a soft, dry cloth to clean the transmitter. The transmitter must never be washed or immersed in water or other liquids.

Replace the earpiece

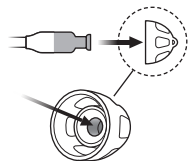
The earpiece should not be cleaned. If it is filled with wax, replace it with a new one.

Step 1



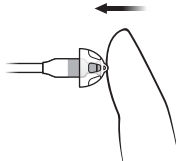
Hold on to the dummy speaker and then pull off the earpiece.

Step 2



Insert the dummy speaker into the exact centre of the earpiece for a secure attachment.

Step 3



Push firmly to ensure that the earpiece is securely fastened.

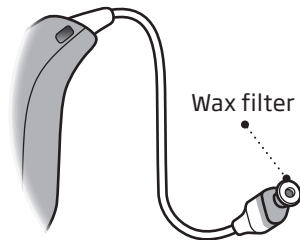
IMPORTANT NOTICE

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

ProWax miniFit filter

The dummy speaker has a white wax filter attached to the end with the earpiece. The wax filter keeps wax and debris out of the dummy speaker. It has no acoustic purpose. Replace the filter for hygienic reasons when clogged.

Remove the earpiece from the dummy speaker before replacing the wax filter.

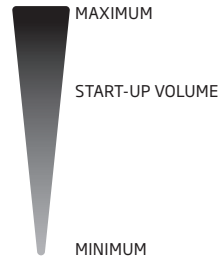
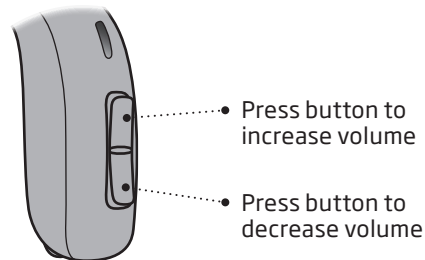


IMPORTANT NOTICE

Always use the same type of wax filter as was originally supplied with the transmitter. If you are in any doubt about the use or replacement of wax filters, contact your hearing care professional.

Change volume on the transmitter

The push button on the transmitter allows you to adjust the volume of the transmitted sound. You will hear a high pitch beep in the hearing aid when you increase or decrease the volume.



CROS users only

The microphones on the hearing aid are deactivated. This means that there is no sound coming from the hearing aid.

Hearing aid with single push button

The push button on the hearing aid has no volume functionality. To adjust the transmitted sound, you need a ConnectClip, Oticon ON App, Remote Control or iPhone®.

Hearing aid with double push button

If your hearing care professional has activated the volume control, the push button on the hearing aid will adjust the transmitted sound.

BiCROS users only

The sound from the hearing aid remains the same when you adjust the volume of the transmitted sound.

Hearing aid with single push button

The push button on the hearing aid has no volume functionality. To adjust the combined sound from the transmitter and hearing aid, you need a ConnectClip, Oticon ON App, Remote Control or iPhone.

Hearing aid with double push button

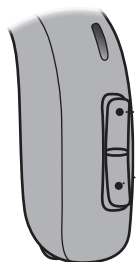
If your hearing care professional has activated the volume control, the push button on the hearing aid will adjust the combined sound from the transmitter and the hearing aid.

Contact your hearing care professional for more information.

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Mute

Use the mute function if you need to temporarily turn off the transmission of sound to the hearing aid. The mute function mutes the microphones on the transmitter.



- **To mute the transmitter**

Press either end of the push button for at least four seconds.

To reactivate, press either end of the button briefly.

IMPORTANT NOTICE

Do not use the mute function as an off switch, as the transmitter still draws current from the battery in this mode.

Sound indicators

Different sound indicators help to communicate the status of your transmitter. The sounds will be transmitted to your hearing aid.

Volume	Sound
Start-up volume	2 high pitch beeps
Minimum / maximum volume	3 high pitch beeps
Volume up / down	1 high pitch beep

Warnings	Sound
Battery low indication	3 high pitch alternate tones
Battery shut down	4 high pitch descending tones
Microphone service check needed	8 high pitch beeps repeated 4 times

General warnings

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

Please note that the transmitter will not restore normal hearing and will not prevent or improve a hearing impairment resulting from organic conditions. Furthermore, note that in most cases, infrequent use of the transmitter does not permit a user to attain its full benefits.

Consult your hearing care professional if you experience unexpected operations or events with your transmitter.

Choking hazards & risk of swallowing batteries and other small parts

The transmitter, its parts and the battery should be kept out of reach of children and anyone who might swallow these items or otherwise cause injury to themselves.

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 learning difficulties.

If a battery or the transmitter is swallowed, see a doctor immediately.

Battery use

Always use batteries recommended by your hearing care professional. Low quality batteries 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.

Dysfunction

Be aware of the possibility that your transmitter may stop working without notice. Keep this in mind when you depend on warning sounds (e.g. when you are in traffic). The transmitter may stop functioning, for instance if the batteries have expired.

Active implants

The transmitter has been thoroughly tested and characterised 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 international 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 MultiTool which has a built-in magnet should be kept at least 30 cm away from the implant, e.g. do not carry it in your breast pocket.

In general, please follow the guidelines recommended by the manufacturers of implantable defibrillators and pacemakers on use with magnets.

Continues on next page

General warnings

X-ray/CT/MR/PET scanning, and electrotherapy

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

Heat and chemicals

The transmitter must never be exposed to extreme heat, e.g. left inside a parked car in the sun.

The transmitter 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 transmitter. Always remove your transmitter before applying such products and allow time to dry before use.

Possible side effects

The transmitter and earpiece may cause an accelerated accumulation of earwax.

The non-allergenic materials used in the transmitter may in rare cases cause a skin irritation or other side effects.

Please consult a physician if these conditions occur.

Interference

The transmitter has been thoroughly tested for interference, in accordance with the most stringent international standards. However, interference between the transmitter and other devices (e.g. some mobile telephones, citizens band systems, shop alarm systems and other devices) may occur. If this occurs, increase the distance between the transmitter and the interfering device.

Incompatible non-supplied accessories

Only use accessories, transducers or cables supplied by the manufacturer of this device. Incompatible accessories may result in increased emission or decreased immunity.

Modification of the transmitter is not allowed

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Troubleshooting

Symptom	Possible causes	Solutions
No sound from the transmitter	Dead battery	Replace the battery
	Transmitter microphone muted	Unmute the transmitter microphone
	Transmitter turned OFF	Turn transmitter ON
	Receiving hearing aid turned OFF	Turn hearing aid ON
	Receiving hearing aid muted	Unmute hearing aid
Intermittent or reduced sound	Moisture on either the transmitter or hearing aid battery	Wipe batteries with a dry cloth
Beeping	If your transmitter plays 8 beeps, 4 times consecutively, it needs a microphone service check	Contact your hearing care professional

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

Water & dust resistant (IP68)

Your transmitter is dust tight and protected against ingress of water, which means it is designed to be worn in all daily life situations. Therefore, you do not have to worry about sweat or getting wet in the rain. Should your transmitter come into contact with water and stop working, please follow these guidelines:

1. Gently wipe off any water.
2. Open the battery drawer and remove the battery and gently wipe off any water in the battery drawer.
3. Let the transmitter dry with the battery drawer left open for approximately 30 minutes.
4. Insert a new battery.

Conditions of use

Operating conditions	Temperature: +1 °C to +40 °C Relative humidity: 5% to 93%, non-condensing
Storage and transport conditions	Temperature and humidity should not exceed the following limits for extended periods during transport and storage: Temperature: -25 °C to +60 °C Relative humidity: 5% to 93%, non-condensing

IMPORTANT NOTICE

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

Warranty

Certificate

Name of owner: _____

Hearing care professional: _____

Hearing care professional's address: _____

Hearing care professional's phone: _____

Purchase date: _____

Warranty period: _____ Month: _____

Model: _____ Serial no.: _____

International warranty

Your transmitter is covered by an international limited warranty issued by the manufacturer for a period of 12 months from the date of delivery. This limited warranty covers manufacturing and material defects in the device itself, but not in accessories such as e.g. batteries, cables, power supplies, etc. Problems arising from improper/incorrect handling or care, excessive use, accidents, repairs made by an unauthorised party, exposure to corrosive conditions, damage due to foreign objects entering the device or incorrect adjustments are NOT covered by the limited warranty and may void it. The above warranty does not affect any legal rights that you might have under applicable national legislation governing sale of consumer goods. Your hearing care professional may have issued a warranty

that goes beyond the clauses of this limited warranty. Please consult him/her for further information.

If you need service

Take your transmitter to your hearing care professional, who may be able to sort out minor problems and adjustments immediately.

Technical information

The transmitter contains a radio transceiver that uses short-range magnetic induction technology working at 3.84 MHz. The magnetic field strength of the transmitter is very weak and is always below 15 nW (typically below -40 dBμA/m at a 10 metre distance).

The transmitter complies with international standards concerning electromagnetic compatibility and human exposure.

Due to the limited space available on the transmitter, relevant approval markings can be found in this booklet.

Additional information can be found in the "Technical Data sheet" on www.oticon.global

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

Declaration of Conformity is available from the manufacturer.



Manufactured by:
Oticon A/S
Kongebakken 9
DK-2765 Smørum
Denmark
www.oticon.global







CE 0543







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



IP68

Description of symbols 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 Directives 90/385/EEC, 93/42/EEC and 98/79/EC.
	CE mark The device complies with Medical Device Directive 93/42/EEC. The four-digits 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 market.
	IP code Indicates the class of protections against harmful ingress of water and particulate matter according to EN 60529:1991. IP6X indicates total dust protection. IPX8 indicates the protection against the effects of continuous immersion in water.

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Description of symbols used on the regulatory packaging label	
	Keep dry Indicates a medical device that needs to be protected from moisture.
	Caution symbol Consult instructions for use for warnings and cautions.
	Catalogue number Indicates the manufacturer's catalogue 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.

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life-changing **technology**