

Manual

Hoxit v1

Read before use.

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Safety Information

Please read and follow all safety instructions before using or servicing the headphones.

General Safety

- Always disconnect the headphones from all audio equipment before disassembly, assembly, or replacing any components.
- Never disassemble or service the headphones while they are connected to an amplifier, DAC, or any other powered device.
- Use only the procedures described in this manual when replacing user-serviceable parts.

Strong Magnets

These headphones contain high-strength N52 neodymium magnets.

- If you have a pacemaker, implantable cardioverter-defibrillator (ICD), or any other implanted medical device, do not place the headphones against your chest or near the implant.
- Keep the headphones away from magnetic storage media and devices that may be affected by strong magnetic fields.

Magnet Handling

- Never apply excessive force directly to the magnets.
- Do not attempt to remove individual magnets from the Magnet Holder.
- Damaged or loose magnets may suddenly detach and become projectiles, causing injury or damage.
- If a magnet becomes loose or damaged, discontinue use until the affected part has been replaced.
- During disassembly, never place Magnet Holders directly on top of each other. Always keep Magnet Holders separated by at least 30 cm to prevent strong magnetic attraction, sudden movement, possible damage, or injury.

Driver Protection

- Never press directly on the Driver PCB or diaphragm.
- Handle the Driver PCB only by its edges.
- Never insert or remove the diffuser from the sides of the magnets. Always remove and install it from the top side of the Magnet Holder to avoid damaging the PCB diaphragm.

Storage

- Store the headphones in a clean, dry environment.
- Avoid exposure to excessive humidity, moisture, water, or condensation.
- Do not store the headphones in dusty environments.
- Keep the headphones away from small ferromagnetic objects such as steel filings, screws, nails, paper clips, staples, or other loose metal particles, as these may be attracted by the magnets and damage the driver.
- When not in use, store the headphones in a protective case or other clean enclosure.

General Warnings

- Keep small parts away from children.

- Do not use damaged components.
- If any part requires excessive force during installation or removal, stop and verify that you are following the correct procedure.
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- **Warning:** This product may expose you to materials known to the State of California to cause reproductive harm.
- The product has been assessed and certified by the manufacturer for compliance with CE and RoHS requirements.
- During manufacturing, lead-free solder was used, and ENIG (Electroless Nickel Immersion Gold) PCB surface finishing was applied.

Package Contents

The package includes:

Modular planar magnetic headphones

Headphone cable

User-replaceable components described in this manual, including: Ear pads, headstrap, headband, ear cups, magnet holders, driver PCBs, diffusers and other modular parts included with the selected configuration

Before use, verify that all included components are present and free from visible damage. If any part is missing or damaged, do not use the headphones and contact the manufacturer or authorized support.

Technical Specifications

Transducer

- **Transducer type:** Planar magnetic driver
- **Driver diameter:** 93 mm
- **Active diaphragm area:** 6,793 mm²
- **Driver materials:** Copper and plastic construction
- **Magnet system:** 9 × N52 neodymium magnets with Ni-Cu-Ni-Epoxy coating

Electrical Characteristics

- **Nominal impedance:** 26 Ω
- **Resistance tolerance:** $\pm 5\%$

Additional Information

The headphones use a passive planar magnetic driver system and require connection to a suitable headphone amplifier or audio source capable of driving a 26 Ω load.

Replacement of User-Replaceable Parts

These headphones are designed as a modular product. Most components can be replaced without the use of specialized tools.

Never use excessive force during disassembly or assembly. If a component does not release easily, verify that the correct procedure is being followed.

During handling, do not touch the driver diaphragm or PCB foil.

Replacement of Ear Pads

The ear pads are magnetically attached.

1. Hold the ear pad by its outer edge.
 2. Gently pull the ear pad away from the ear cup.
 3. The metal mounting ring can be removed from the ear pad.
 4. The mounting ring can also be used with any compatible 110 mm ear pads that have space on the rear side for inserting the mounting ring.
 5. To install, insert the ring into the ear pad and place the ear pad onto the ear cup. The magnets will automatically center it.
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Removing the Ear Cup from the Headband

1. Hold the headband section with the logo using one hand.
 2. Hold the ear cup with the other hand.
 3. Pull the two parts apart at a slight angle until they separate.
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Replacement of the Headstrap

1. Pull out the retaining pins. They are not threaded screws; they are held only by magnets.
 2. Remove the old headstrap.
 3. Slightly stretch the loop of the new headstrap.
 4. Insert the loop into the corresponding slot.
 5. Insert the magnetic pin from the top and press it into place.
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Removing the Magnet Holder

1. First separate the ear cup from the headband.
2. Insert a fingernail into the gap between the ear cup and the Magnet Holder.
3. Gently rotate the fingernail to begin separating the two parts.
4. Once enough space is created, remove the Magnet Holder by two hands holding the cup and the Magnet Holder.

Removing the Driver PCB

After removing the Magnet Holder, grooves are located on both sides of the holder.

1. Insert your fingers into the grooves on both sides of the magnet holder.
2. Hold the PCB only by its edges.
3. Pull the PCB upward.
4. Never squeeze or press the PCB.

When reinstalling, the PCB must be positioned so that the lines on the PCB are parallel with the magnets.

When replacing the drivers, always replace both drivers at the same time to ensure consistent sound performance and matching acoustic characteristics between the left and right channels.

Replacement of the Diffuser

1. Locate the logo on the outer side of the Magnet Holder.
2. Insert a fingernail at the edge of the diffuser near the logo.
3. Pull the diffuser upward at a slight angle.

Never insert or remove the diffuser from the sides of the magnets.

The diffuser must always be installed or removed only from the top side of the magnets.

Failure to follow this procedure may damage the PCB foil.

Reinstalling the Magnet Holder into the Ear Cup

1. Align the internal logo on the Magnet Holder with the pogo pins inside the ear cup.
2. Make sure that both ear cups maintain the same orientation angle.
3. Press both parts together until they are fully seated.

Check the connection from the side.

If the red silicone seal is visible, press the edge of the Magnet Holder and the ear cup together at that location until the silicone is no longer visible.

The Magnet Holder can be installed into the ear cup at any rotational angle. If a different orientation is selected, the same mirrored orientation must be applied to the opposite ear cup.

Installing the Ear Cup onto the Headband

1. Align the ear cup with the headband.
2. The arrows on the ear cup must be parallel with the direction in which the headband rods extend from the upper headband structure.
3. Press both parts together firmly until they snap into position.

Maintenance

Driver Cleaning

- If dust appears on the driver surface, do not wipe it and do not touch the diaphragm.
- Never use cloth, brushes, compressed air cans, or any object directly on the driver.
- Dust may only be removed by using a low-pressure manual air blower from the side of the driver.
- Never blow air directly from the top onto the diaphragm, as this may damage the driver.
- Do not apply liquids, cleaning agents, or solvents to any driver components.

General Cleaning

- Clean the exterior surfaces using a soft, dry, lint-free cloth.
- Do not use aggressive chemicals, cleaners, or solvents unless specifically approved.
- Keep the connectors and contact areas clean and free from dust or oxidation.
- Do not allow moisture, sweat, or liquids to enter the ear cups.

Storage and Handling

- Store the headphones in a clean, dry, and dust-free environment.
- Avoid prolonged exposure to high humidity, direct sunlight, extreme temperatures, or condensation.
- Keep small ferromagnetic particles such as metal dust, screws, or filings away from the driver and magnets.
- When transporting the headphones, use appropriate protection to prevent impact or mechanical stress.
- Regularly check the cable, connectors, ear pads, headstrap, and modular connections for signs of wear or damage, loose connections and rattling.
- Stop using the headphones if any structural component, magnet, driver part, or electrical connection appears damaged.
- Replace worn or damaged user-replaceable components only with compatible parts specified by the manufacturer.

Troubleshooting

No Sound or Partial Sound Loss

If there is no sound from one or both channels, or the sound is only partially working, follow these steps:

1. Check that the cable is correctly connected to the headphones and the audio source.
2. Verify that the audio source, amplifier, or player is switched on and functioning correctly.
3. Try replacing the cable with another compatible cable.

If the problem continues:

4. Clean all contact points using a cotton swab lightly moistened with 99% isopropyl alcohol:
 - Contacts inside the headband connection area.
 - Pogo pins inside the ear cups.
 - Gold contact rings on the Driver PCB.

Allow all cleaned parts to dry completely before reassembly.

Checking External Pogo Pins

If the problem persists, check the external pogo pins on the ear cup.

- Verify that the pogo pins are not loose.

If a pogo pin is loose:

1. Use the appropriate tool (not included with the headphones) to carefully tighten the pogo pin.
2. Apply a small drop of thread-locking adhesive to the top of the thread or inside the thread before tightening.

Important:

- Never tighten aggressively or use excessive force.
 - Excessive tightening may damage the thread or break the pogo pin.
 - Do not apply adhesive onto the gold contact surfaces.
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Checking Headband Connections

If the issue continues:

1. Inspect the screws in the upper headband structure where the rods connect to the ear cups.
2. Check whether the screws that are secured with adhesive are loose or moving.

If a screw is loose:

1. Remove the old adhesive residue.

2. Carefully tighten the screw.
3. Apply adhesive again to secure it.

Checking Internal Pogo Pins and Flex PCB

If the problem still remains:

1. Inspect the internal pogo pins inside the ear cup.
2. Check for bent, damaged, or broken pogo pins.

A possible indication of a damaged flex PCB connection:

- If the pogo pin assembly attempts to pull out while the flex PCB remains inside the ear cup, the flex PCB must be replaced.
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Electrical Continuity Test

Another way to verify the connection:

1. Remove the assembled ear cup from the headband.
2. Set a multimeter to resistance measurement mode.
3. Place the probes on the two outer contact pins.

The measured resistance should be the same or very similar on both ear cups.

If the measured resistance is significantly higher:

- The Magnet Holder may not be fully seated in the ear cup.
 - A connection may be loose or interrupted.
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Driver PCB Resistance Check

If the ear cup measurements do not match:

1. Remove the Driver PCB.
2. Measure the resistance between the two gold contact rings on the PCB.

Results:

- If the PCB measurement is the same as expected, the problem is likely in the flex PCB, internal pogo pins, or external connection system.
- If the resistance remains very high or no connection is detected, further inspection is required on the driver PCB.

Carefully tightening the PCB retaining screws one by one may improve contact pressure.

Warning:

This procedure is not recommended for users.

Any damage caused to the driver fail during this procedure is the responsibility of the user.

Inverted Sound / Unsynchronized Driver Channels

If the sound is phase-reversed or the drivers appear to operate out of synchronization:

1. Check that both ear cups are installed on the headband with the arrows facing upward.
2. Verify that both sides have the same orientation.

If the problem remains after correct installation:

Contact the manufacturer or seller for replacement or further diagnosis.

This condition should not normally occur and requires professional evaluation.

Headstrap Holder Replacement

If the headstrap holder on the headband breaks:

1. Heat the replacement part using a hair dryer for approximately 20 seconds.
2. Insert the heated replacement part into the correct position.
3. Press until it snaps securely into place.

Do not use excessive force during installation.

Additional Mechanical Inspection Warning

During regular inspection, check that the spherical joint on the ear cup is securely tightened.

If the ball joint begins to move or loosen by itself, tighten it immediately to prevent further damage.

A loose ball joint may cause the retaining screw to detach from the ball joint and become attracted to the magnets. This may result in the screw being pulled toward the driver through the diaphragm/foil area and may cause serious damage.

This warning also applies to the external pogo pins. If any external pogo pin becomes loose or starts to rotate freely, it must be tightened immediately according to the procedure described in the troubleshooting section.

Do not continue using the headphones with loose mechanical parts.

Warranty and Contact Information

For warranty service, technical support, or assistance, please contact your local authorized seller. If the product was purchased directly from the manufacturer, contact:

support@hoxit.sk

Warranty Terms

The warranty period for the headphones is 2 years from the date of purchase.

The following components have a limited warranty period of 6 months due to normal wear and user handling: headstrap, headphone cable, ear pads.

The warranty covers defects in materials and workmanship under normal intended use.

Damage caused by improper handling, misuse, accidents, unauthorized modifications, incorrect assembly, or failure to follow the instructions in this manual is not covered under warranty.

The warranty does not cover damage caused by:

- Excessive force during disassembly or assembly.
- Incorrect replacement procedures.
- Damage to the driver, PCB, magnets, or other components caused by improper handling.
- Exposure to liquids, excessive humidity, dust, or unsuitable storage conditions.
- Exposure to cigarette smoke or other smoke that causes damage, contamination, or persistent odor.
- Unauthorized modifications or repairs.
- Use of incompatible replacement parts or components.
- Physical damage resulting from dropping, impact, crushing, or other mechanical damage.

Warranty Claim

When submitting a warranty claim, the customer may be required to provide proof of purchase and information identifying the product, such as the model and serial number. Do not send the product for warranty inspection before receiving return instructions from the authorized seller or manufacturer.

If the product is found to be defective under the applicable warranty conditions, the manufacturer or authorized seller will determine the appropriate remedy in accordance with applicable law.

Products exposed to cigarette smoke or other persistent odors may be considered significantly diminished in condition. Smoke can penetrate and remain in ear pads, headstraps, cables, plastics, adhesives, and other materials.

If a product is returned within the applicable 14-day withdrawal period and has been damaged, contaminated, or exposed to cigarette smoke or has a persistent smoke odor, the customer's statutory rights remain unaffected. Where permitted by applicable law, compensation for any diminished value caused by handling beyond what is necessary to establish the nature, characteristics, and functioning of the product may be deducted from the refund.

Replacement Parts

Replacement parts may be purchased from the local authorized distributor. If the distributor does not stock or sell the required replacement part, please contact:

support@hoxit.sk

Replacement parts will remain available from the manufacturer for as long as the product is supported and the respective components continue to be produced.

Availability of individual replacement parts may vary depending on the product version and manufacturing availability.