

HP3190

ARKON

FM CORDLESS HEADPHONES



INSTRUCTIONS

Warnings, cautions and others
Mises en garde, precautions et indications diverses
Avisos, precauciones y otras notas



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING: TO REDUCE THE RISK OF FIRE
OR ELECTRIC SHOCK, DO NOT EXPOSE
THIS APPLIANCE TO RAIN OR MOISTURE.**

FCC INFORMATION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications not approved _____ could void user's authority to operate the equipment.

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, it 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.
- Consult the dealer or an experienced radio/TV technician for help.

IC INFORMATION

This device complies with RSS-210 of the IC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received, including interference that may cause undesired operation of the device.

CAUTION: Changes or modifications not approved could void user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Industry Canada's RSS-210. 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, it 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.
- Consult the dealer or an experienced radio/TV technician for help.

INFORMATION SUR IC

Cet appareil est conforme à la RSS-210 du règlement de la IC. Le fonctionnement est sujet aux deux conditions suivantes:

- (1) Cet appareil ne peut causer d'interférences nuisibles
- (2) Cet appareil reçoit toute interférence même les interférences qui peuvent occasionner un mauvais fonctionnement.

ATTENTION: Les changements ou les modifications non approuvés par JVC risquent de retirer à l'utilisateur le droit d'utiliser l'appareil.

Remarque: L'appareil a été testé et jugé conforme aux limites des appareils numériques de classe B, aux termes de la réglementation RSS-210 de l'industrie du Canada. Ces limites ont pour but d'assurer une protection raisonnable contre les interférences parasites lorsque l'appareil est utilisé dans une installation résidentielle. Cet appareil engendre, utilise et peut émettre une énergie radioélectrique et, s'il n'est pas installé et utilisé en stricte conformité avec ces instructions, il peut provoquer des interférences parasites dans les liaisons radiophoniques. Ceci ne garantit pas pour autant qu'une installation particulière n'émettra aucune interférence. Si l'appareil engendre des interférences parasites avec la réception radio ou télévision, ce qui pourra être déterminé en éteignant puis en rallumant l'appareil, il est conseillé à l'utilisateur d'essayer de corriger les interférences en prenant l'une des mesures ci-dessous:

- Modifier l'orientation ou changer l'emplacement de l'antenne de réception.
- Eloigner davantage l'appareil du récepteur.
- Brancher l'appareil dans une prise d'un circuit différent de celui auquel le récepteur est raccordé.
- Demander l'aide de son agent ou d'un technicien radio/télévision qualifié.

IMPORTANT

CAUTION:

TO PREVENT ELECTRIC SHOCK
DO NOT USE THIS PLUG WITH AN
EXTENSION CORD, RECEPTACLE
OR OTHER OUTLET UNLESS THE
BLADES CAN BE FULLY INSERTED TO
PREVENT BLADE EXPOSURE.

ENGLISH

This product's performance would be degraded under a strong electro-static environment. And the function would be self-recoverable after the above case. This product's performance would be degraded since the disturbance from the mains cord. And the function would be self-recoverable after the above case.

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Hearing Comfort and Well-Being

- Do not play your headphones at a high volume. Hearing experts advice against continuous extended play.
- If you experience a ringing in your ears, reduce volume or discontinue use.

Traffic safety

- Do not use while operating a motorized vehicle. It may create a traffic hazard and is illegal in many area.
- You should use extreme caution or temporarily discontinue use in potentially hazardous situations.
- Even though your headphones are of the open-air type designed to let you hear outside sounds, don't turn up the volume so high that you can't hear what's around you.

FEATURES

- Large 40 mm dia. drivers for high quality sound
- On Stand Charging–Rechargeable system with Ni-MH battery that requires no charge cable
- Reception range up to 164 ft./50 m (using JVC measurement system)
- Auto-level control circuit that automatically adjusts signals to the appropriate modulation level
- “PLL” Stabilized Transmission Technology
- Auto Tuning
- Auto Power On/Off transmitter
- Paging/Call Function—for paging/calling a headphone user from the base station
- Adaptable to any audio/visual equipment

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For your health and traffic safety

- Be careful not to turn the sound volume up too high when using the headphones. Your hearing can be damaged by listening to sounds at excessive volume for long periods.
- Never use the headphones when driving a car, motorcycle, or bicycle. This could result in an accident.
- Pay close attention to traffic around you when using the headphones while walking. Not doing so could result in an accident.

Precautions

Important cautions

CAUTION

To reduce the risk of electrical shocks, fire, etc.:

1. Do not remove screws, cover or cabinet.
2. Do not expose this appliance to rain or moisture.

Precautions

Installation

- Select a place which is level, dry and neither too hot nor too cold (between 0°C and 35°C (32°F and 95°F)).
- Keep away from direct sunlight.
- Do not put it too close to a heater.
- Indoor use only.

Power cord

- Do not handle the power cord with wet hands!
- Do not bend the power cord sharply.
- Do not connect the provided AC adaptor to any other equipment. It is exclusively for use with this unit.

Malfunctions, etc.

- There are no serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object.
- Do not allow water to get inside.
- Stop using the headphones if they are causing discomfort on your skin. Otherwise inflammation or irritation may be caused on your skin.
- The ear pad will wear out earlier than the other parts even in normal use or in normal keeping due to the material characteristics. For replacement of the ear pads, please consult with the dealer where you purchased the headphones.
- If the headphone is not used for a prolonged time, unplug the AC adaptor from an AC outlet.

Battery precautions

- Be sure to use the provided exclusive battery. Do not use any other rechargeable or dry cell battery.
- Use only the type of battery the manufacturer recommends when replacing the battery.
- Do not throw the battery in a fire or heat it.
- Do not immerse or wet the battery in water.
- Do not remove or damage the covering tube.
- Do not subject the battery to strong shocks or throw it.
- If any liquid from the battery gets into your eyes, it may cause blindness. If battery liquid does get into your eyes, do not rub them, but instead immediately wash them thoroughly with clean water, then consult a doctor at once. Also, should any liquid from the rechargeable battery get onto your skin or clothes, it may burn your skin. In this case, wash with clean water immediately.
- When discarding batteries, environmental problems must be considered and the local rules or laws governing the disposal of these batteries must be followed strictly.

Charging precautions

- Charge only with provided Ni-MH type battery. Other types of battery may burst causing personal injury and damage.
- Use only the provided base station to charge the battery.
- Be sure to use the provided AC adaptor.

Supplied accessories

Check to be sure you have all of the supplied accessories.

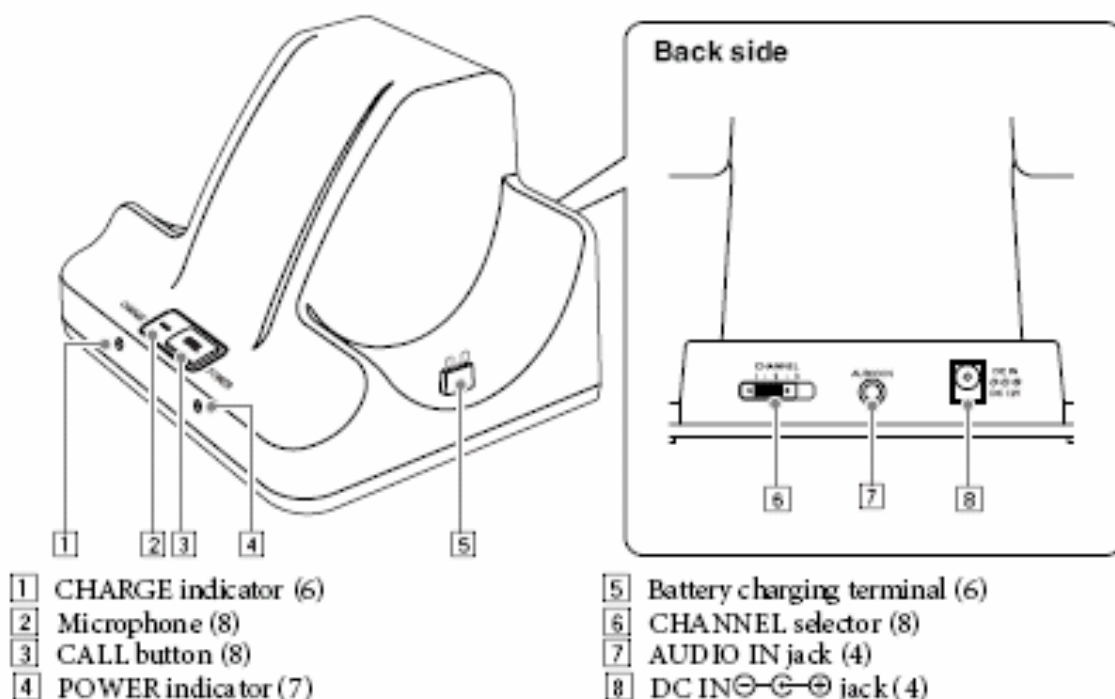
The number in parentheses is the quantity of the pieces supplied. If anything is missing, contact your dealer immediately.

- Rechargeable batteries (2)
- AC adaptor (1)
- Connection cord (1)
- Conversion cord (1)
- Plug adaptor (1)

Parts identification

See pages in parentheses for details.

Base station (transmitter and battery charging unit)



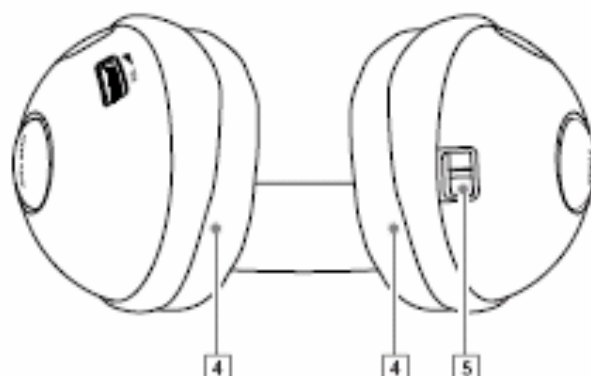
Headphones

Left



- 1 AUTO SCAN button (7, 8)
- 2 AUTO SCAN indicator (7)
- 3 VOL (volume) (7)
- 4 Ear pad (5)
- 5 Battery charging terminal (6)
- 6 POWER button (6, 7)
- 7 POWER indicator (6, 7)

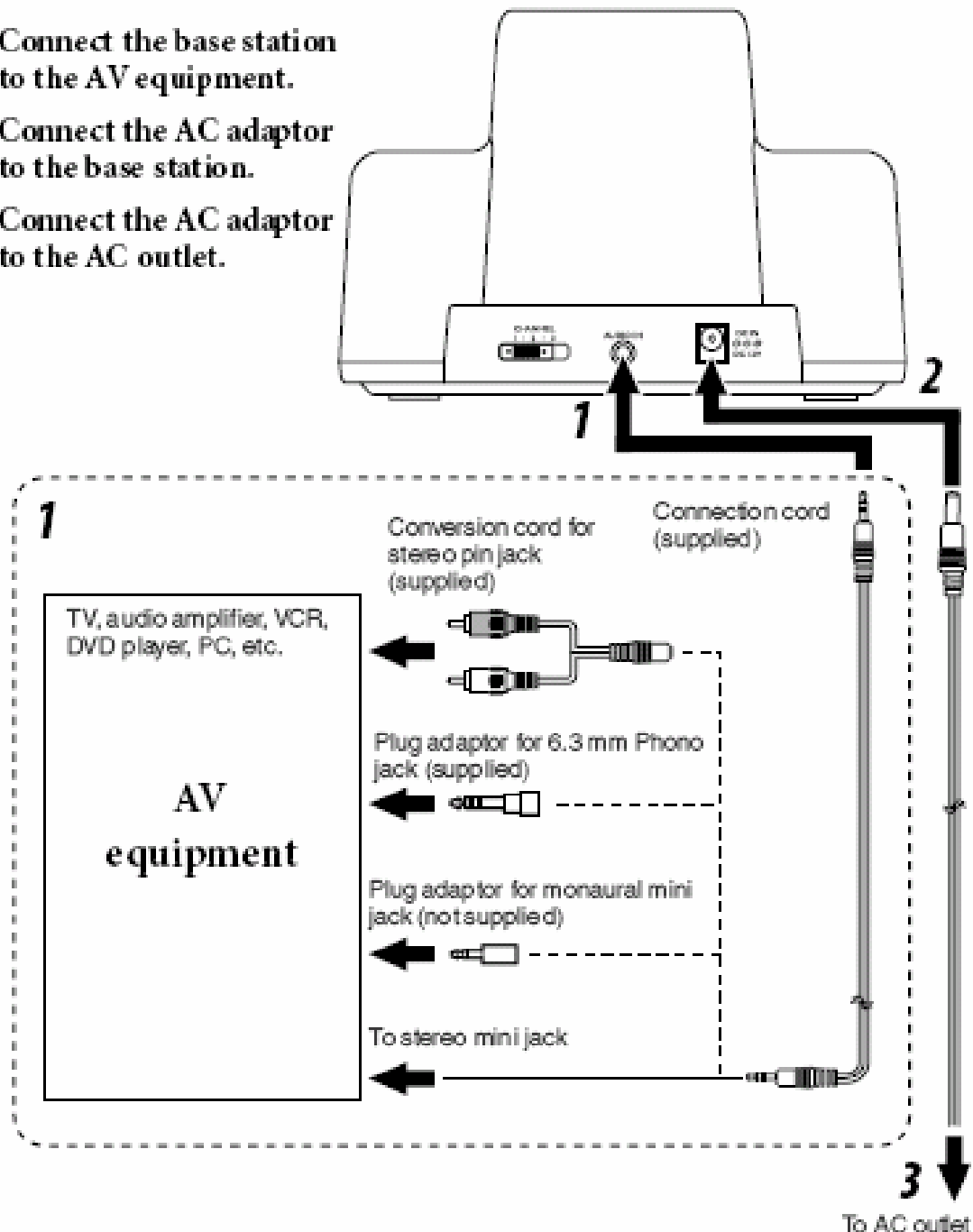
Right



Connection

Be sure to connect the power cord after all other connections are complete.

- 1** Connect the base station to the AV equipment.
- 2** Connect the AC adaptor to the base station.
- 3** Connect the AC adaptor to the AC outlet.



Note:

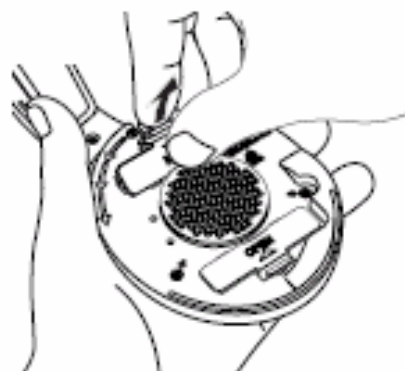
Do not use any other AC adaptor than the supplied AC adaptor. Otherwise, malfunctions may be caused.

Battery installation

- 1** Take off the ear pad of the left headphone.

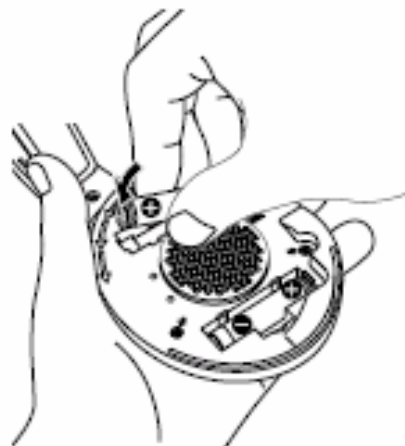


- 2** Open the battery covers.



- 3** Install the batteries.

Match the polarity (+ and -) on the batteries with the + and - marking on the battery compartments.



Be sure to use the provided exclusive battery. Do not use any other rechargeable or dry cell battery.

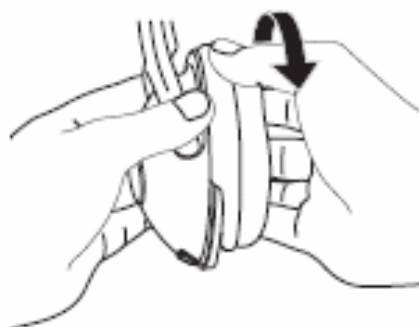
- 4** Close the battery covers.

- 5** Put on the ear pad.

- 1** Insert the hem of the ear pad into the slit on the headphone.



- 2** Turn the ear pad anti-clockwise to slide all the hem into the groove on the headphone.



Charging the battery

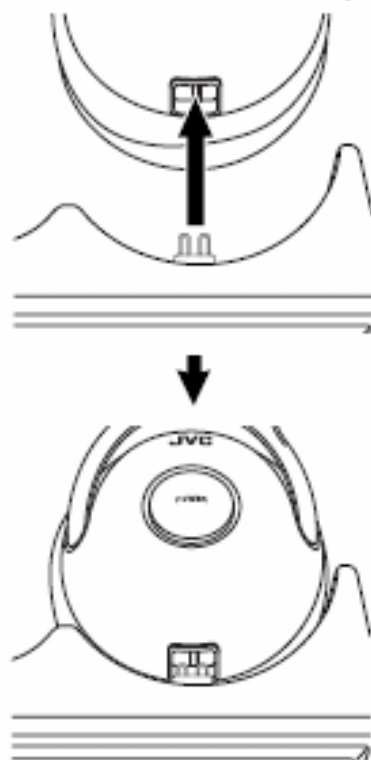
Charge the rechargeable battery before starting to use the headphones.

You can continuously use the headphones for about 10 hours after full battery charge.

1 Make sure that the headphones are turned off.

- You cannot charge the battery of the headphones when the headphones are turned on. Press POWER to turn the Power indicator off.

2 Put on the headphones on the base station so that their charging terminals contact firmly.



When the terminals properly contact, the CHARGE indicator on the base station lights up and charging starts automatically.

CHARGE



- It takes about 30 hours to charge the batteries fully.
- 30-hour charging may not charge the battery fully depending on the battery or other conditions.
- The cycle life of the rechargeable battery is approximately 500 times. (It varies depending on the conditions when charging.)
- The battery leaks its charge little by little even when the headphones' power is off, due to its characteristics.

Notes on the battery and charging

- To make battery life longer:
 - charging the battery within the temperature range of 10°C – 35°C (50°F – 95°F).
 - not using the headphones in excessively cold places. Low temperature decreases battery life.
 - charging the battery after its complete discharging. Charging before complete discharge makes the battery life gradually shorter.
- Replace the batteries when their lives become about half or the playback sound become constantly noisy. Use the exclusive rechargeable Ni-HN battery only. When purchasing the battery, consult the dealer where you bought the product.
- Replace two batteries at the same time when replacing.

Basic operations

Listening to the sound from the base station

Precaution

Turn down the volume of the headphones with the VOL dial before turning on its power to avoid excessive volume.

1 Start playback on the AV equipment connected with the base station.

The base station turns on automatically and starts to transmit FM signals (Auto Power On function).

The POWER indicator of the base station lights up.

- In some situations, the power may not be turned on automatically by the input sound (e.g. a song with a quiet opening or fade in). This is not a malfunction.

2 Press POWER on the headphones to turn on the power.



The POWER indicator lights up and the headphones automatically starts to tune in to the signal from the base station (Auto Tuning function).

The AUTO SCAN indicator lights up when tuned in.

- Press the center of the button firmly when pressing POWER. Pressing the edge may not turn on the power.
- Charge the battery in the following cases:
The battery ran out:
 - The POWER indicator does not light up after pressing POWER.
 - The AUTO SCAN indicator does not light up though the POWER indicator lights up.

- No sound is heard while Auto Tuning. It takes a few seconds to tune in.
- Press AUTO SCAN when the sound does not come out properly.



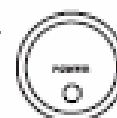
3 Adjust the volumes of the AV equipment and the headphones.



- Adjust the volumes within the area about 7 m (23 ft.) from the base station to get optimum signal reception.
- You can get better sound by setting the volume of the AV equipment as high as possible without causing distortion and that of the headphone lower (except when connecting the AV equipment through LINE OUT jacks).

To Turn off the units

Press POWER on the headphones and stop playback on the AV equipment. The headphones' POWER indicator goes off.



- The base station automatically turns off if no signals come in for four minutes (Auto Power OFF function).
- The white noise may come out when the base station turns off. Take off and turns off the headphones after using.

Basic operations

Selecting a better reception channel

When the playback sound is noisy, you can choose one of the other two channels to transmit signals on the base station.

- The white noise may come out when switching the channel. Take off the headphones when switching the channel.

- 1 Slide the CHANNEL selector on the base station to select another channel.**



- 2 Press AUTO SCAN on the headphones to tune in to the new channel.**



- 3 Repeat Steps 1 and 2 to select the best channel.**

Listening area

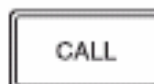
The headphones can receive the FM signal of the base station 50 m (164 ft.) away from it at maximum (when no interference or obstacles exist between them). But the receivable range becomes shorter or reception quality becomes poorer in the following cases:

- In places such as reinforced concrete buildings
- Obstacles such as steel-reinforced doors exist between the base station and headphones
- Items such as metal furniture are situated nearby
- In places facing a street
- Noise or interference sources exist nearby (e.g. mobile ham, radio stations, high-voltage power lines, a microwave oven, cordless phones, cellular phones, etc.)

Paging through the base station

You can call the one using the headphones with the microphone on the base station.

- 1 Press and hold CALL on the base station.**

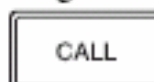


The playback sound is interrupted.

- 2 Speak to the microphone on the base station.**

Speak at least 10 cm (4 inches) away from the microphone. The speaking sound may be distorted.

- 3 Release CALL after finishing speaking.**



- Do not speak to the microphone suddenly in too loud voice. The sudden excessive loud sound may damage the ears of the headphones user or may cause an accident to the user.
- Do not use the Call function when the headphones are near the base station. It may cause a howling sound and damage the headphone user or cause an accident.

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

Symptom	Cause/Remedy
No sound comes out at all.	• Turns on the power of the headphones. • Start playback on the AV equipment connected to the transmitter. • Check the connection between the transmitter and the AV equipment. • Turns up the volume of the headphones or the connected AV equipment to an appropriate level. • Fully charge the headphones' battery.
No sound comes out from R-channel.	• Check the connection between the transmitter and the AV equipment. • Sound comes out only of L-channel when the transmitter is connected to the monaural audio output. Convert the mini plug to the transmitter from stereo to monaural with the plug adaptor (not supplied).
Sound is distorted.	• The headphones' battery will soon run out. Fully charge the battery. • The volume of the headphones and/or the connected AV equipment is too high. Adjust their volume to an appropriate level.
Sound is noisy.	• The headphones' battery will soon run out. Fully charge the battery. • Switch the transmitter channel to another and press AUTO SCAN button on the headphones. • The volume of the connected AV equipment is too low. Adjust the volume as high as possible without causing distortion. • Too far from the transmitter. Use the headphones within the range of the transmitter (see page 8).
Cannot charge the battery.	• Check the contact of the charging terminals on the transmitter and the headphones. • Check the polarity of the battery. • The cycle life of the battery ended. Replace with the new battery (see page 6).

Specifications

General Specifications

Modulation system:	Stereo frequency modulation system
Carrier frequency:	912.0 MHz (Channel 1) 912.5 MHz (Channel 2) 913.0 MHz (Channel 3)
Usable area (distance to reach):	Max. 50 m (164 ft.) (using measurement systems under controlled ambient conditions)
Frequency response:	25 – 13,000 Hz
Distortion:	Less than 3% (at 1 kHz)

Transmitter

Power requirements:	DC 12 V (with the exclusive AC adaptor)
Audio input terminals:	3.5 mm (0.13") dia. stereo mini jack
Input impedance:	36 k Ω
Reference input level:	350 mV
Dimensions:	159 (W) x 114 (D) x 123 (H) mm (6.26" x 4.49" x 4.84")
Mass:	280 g (9.9 oz) (without connection cord and AC adaptor)

Headphones

Power requirements:	Rechargeable Ni-MH battery (1.2 V) x 2
Battery running time:	10 hours (when charged for 30 hours)
Mass:	250 g (8.8 oz) (with rechargeable battery)

Provided Accessories

Instructions x 1
AC adaptor x 1
Rechargeable Ni-MH battery x 2
Connection cord x 1 (3.5 mm (0.13") dia. stereo mini plug: 2.2 m (7.22 ft))
Conversion cord x 1 (3.5 mm (0.13") dia. stereo mini jack — RCA pin plug x 2: 0.1 m (0.33 ft))
Plug adaptor x 1 (converts 3.5 mm (0.13") dia. stereo mini plug to a 6.3 mm (0.24") dia. standard stereo phone plug)

* Design and specifications subject to change without notice.