

Wireless Stereo Headphone System

Operating Instructions

Mode d'emploi

Welcome!

Thank you for purchasing the Sony MDR-RF950RK Wireless Stereo Headphone System. Before operating the unit, please read this manual thoroughly and retain it for future reference.

Some features are:

- Wireless system that allows you to listen to a program free from the restriction of a cord—within 150 feet (46 m) from the transmitter.
- High fidelity sound reproduction
- Compact transmitter which operates on AC power using the supplied AC power adaptor and which also functions as battery charger.
- Comfortable supra-aural headphones with self adjusting head band
- Automatic ON/OFF function on headphones to preserve battery power
- Mute function to avoid noise when no audio signal is available.
- Either supplied rechargeable batteries or commercially available size AA (R6) dry batteries are used for the power source of the headphones.

MDR-RF950RK

Sony Corporation © 1998 Printed in Japan

English

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

WARNING

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

For the customers in the Canada

RECYCLING NICKEL-CADMIUM BATTERIES



NICKEL-CADMIUM BATTERY. BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.

Ni-Cd

Nickel-Cadmium batteries are recyclable. You can help preserve our environment by returning your unwanted batteries to your nearest Factory Service Center for collection, recycling or proper disposal.

Note: In some areas the disposal of nickel-cadmium batteries in household or business trash may be prohibited.

For the Factory Service Center nearest you call 416-499-SONY (Canada only)

Caution: Do not handle damaged or leaking nickel-cadmium batteries.

Notes on receiving performance

The system for this equipment utilizes very high frequency signals in the 900 MHz band so the receiving performance may deteriorate due to the surroundings. The following examples illustrate conditions that may reduce the possible receiving range or cause interference with reception.

- Inside a building with walls containing steel beams.
- Area with many steel file cabinets, etc.
- Area with many electrical appliances capable of generating electromagnetic noise.
- Transmitter is placed on a metal instrument.
- Area facing roadways.
- Noise or interfering signals exist in the surroundings due to radio transceivers in trucks, etc.
- Noise or interfering signals exist in the surroundings due to wireless communication systems installed along roadways.

Getting started

Unpacking

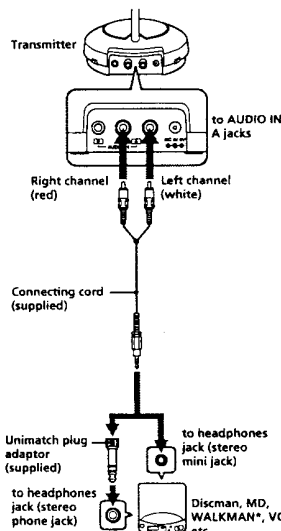
Check that you have the following items:

- The transmitter
- Ni-Cd rechargeable batteries NC-AA-HJ
- AC power adaptor
- The headphones
- Unimatch plug adaptor (stereo mini jack → stereo phone plug)
- Connecting cord (phono plugs ↔ stereo mini plug), 1 m

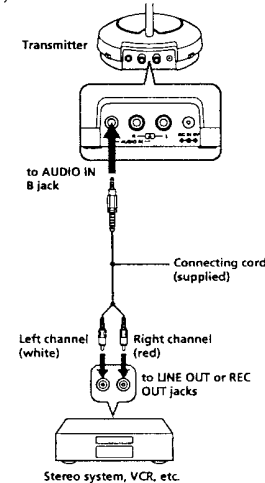
Setting up the transmitter

1 Connect the transmitter to audio/video equipment. Select one of the hookups below depending on the jack type:

Ⓐ To connect to a headphones jack

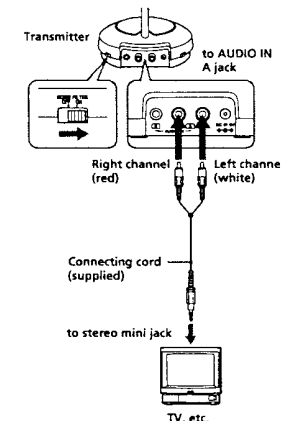


Ⓑ To connect to LINE OUT or REC OUT jacks



Ⓒ To connect to TV, etc.

If noise occurs when the transmitter is connected to the headphone jack of your TV or VCR, set the NOISE FILTER switch to ON.



Notes

- If you connect the transmitter to LINE OUT or REC OUT jack, do not set the NOISE FILTER switch to ON. Otherwise, the volume will be limited.
- The NOISE FILTER switch effects the sound only in cases such as connection diagram Ⓒ. In diagrams Ⓐ and Ⓑ, the switch has no effect.
- When the transmitter is placed on or near a TV, it may pick up a noise. In such case, place the transmitter away from the TV.

2 Connect the transmitter to an using the supplied AC power

Notes

- Use only the supplied AC power adaptor. any other AC power adaptor.



Polarity of the plug

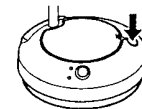
- When you connect the connecting cord dir earphone jack, the audio signal will not be through the right channel. In such a case, separately sold PC-236HG plug adaptor.
- If the connected equipment has the AVLS (Volume Limiter System) function, be sure function off when using the transmitter. C will have to turn up the volume of the hea that may cause noise.
- Do not place the transmitter near a fluore when using the system.
- WALKMAN is a registered trademark of Corporation.

Charging the headphones' bat

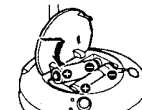
Using the headphones for the fir The headphones are powered by eithe rechargeable batteries or commercially size AA (R6) batteries.

When you use the headphones with th rechargeable batteries NC-AA-HJ for t charge the batteries in the following m NC-AA-HJ is applicable only for Sony wireless headphone systems. Never u other purpose.

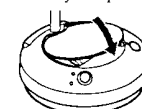
1 Press the OPEN button to ope battery compartment lid of th transmitter.



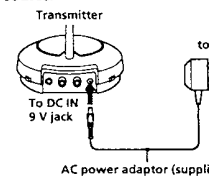
2 Insert two NC-AA-HJ battery by matching the + and - on batteries to the + and - in th compartment.



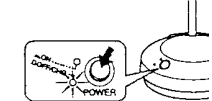
3 Close the battery compartme



4 Connect the transmitter to a source.

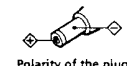


5 Press the OFF/CHG•POWER switch so that the OFF/CHG lights up green. Charging starts.



Notes

- Charge only the supplied rechargeable b NC-AA-HJ.
- You cannot recharge other size AA (R6) r batteries (NC-AA etc.) with this unit.
- Be sure to charge both the rechargeable b time. The charger cannot charge the batt one.
- Use only the supplied AC power adaptor any other AC power adaptor.



Polarity of the plug

If the indicator is not lit Check that the supplied rechargeable correctly inserted in the battery comp the transmitter.

To recharge the headphones' batteries after use

To charge the batteries, follow steps above. Since little electric current is used for charging, there is no need to worry about overcharging.

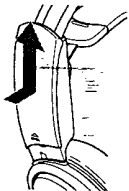
Charging and using hours

Approx. charging hours	Approx. using time* hours
1	50 minutes
24**	20 hours

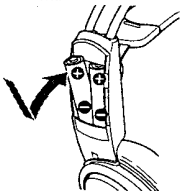
* at 1 kHz, 1 mW + 1 mW output
** The hours required to fully charge empty batteries

Setting up the headphones

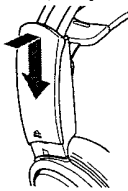
- 1 Open the battery compartment lid on the left outer side of the head band.



- 2 Insert two charged NC-AA-HJ batteries by matching the + and - on the batteries to the + and - in the battery compartment.



- 3 Close the battery compartment lid.



Using the headphones with a commercially available size AA (R6) dry batteries
Install the batteries in the manner as described in "Setting up the headphones."

Battery life

Battery	Approx. hours*
Sony alkaline battery SG (LR6)	60
Sony battery SR (R6P)	30

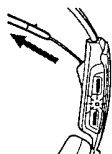
* at 1 kHz, 1 mW + 1 mW output

Notes on batteries

To avoid damage to the system caused by battery leakage and corrosion:
- Install the batteries with the correct polarity.
- Do not try to recharge dry batteries.
- Remove the batteries if the system is not to be used for a long period of time.
In case of battery leakage, wipe off any deposit in the battery compartments before installing new batteries.

Check the remaining power of the headphones' battery

Pull up the self adjusting band, and check that the headphones' power indicator lights in red. You can now use the headphones.
Charge the battery or install a new dry battery, if the power indicator light is weak or turned off and the sound become distorted or has a lot of noise.



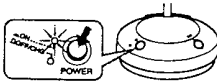
Notes

- During recharging, the transmitter is turned off.
- When the life of the rechargeable batteries are shortened by half even after a proper recharging, replace them with new NC-AA-HJ batteries.

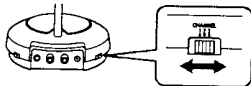
Operating the system

Listening to a program

- 1 First turn on the audio/video equipment, then the transmitter.



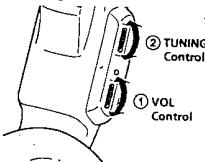
- 2 Select the radio frequency with the CHANNEL selector switch.



- 3 Put on the headphones and the power turns on automatically.



- 4 Turn up the volume to a moderate level with the VOL control, then tune the headphones to the transmit frequency with the TUNING control until you can hear the audio signal loud and clear.



Try the above steps 2 and 4 until the receiving performance becomes better.

Sending RF signals from the Transmitter

The transmitter starts sending the RF signals automatically, when the transmitter power is turned on, and audio signals from the connected equipment is detected.

If it does not detect an audio signal for more than approximately five minutes, the transmitter will stop sending RF signals.

But the Power indicator remains lighting. When the transmitter receives an audio signal again, it starts sending the RF signals.

If the audio signal is very weak, the transmitter does not send RF signals automatically. In this case, make sure the volume of the equipment connected is set to 5 - 6.

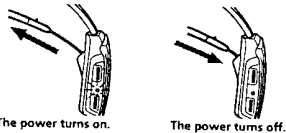
You may not hear the beginning of the sound from the headphones until the transmitter starts sending the RF signals after detecting an audio signal.

Note

If the transmitter is connected to the headphones jack of the source equipment, set the volume of that equipment as high as possible without distorting the audio signal.

Auto power on/off function

When you remove the headphones, the power turns off automatically. Do not allow the self adjusting band to be pulled up, otherwise the headphones will be switched on.

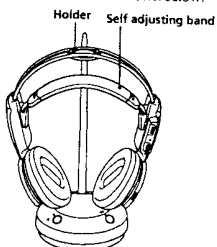


Mute function

If a hissing noise is heard when the headphones are used outside of the effective range (see the next section), the mute function will be activated and the sound will not be heard from the headphones. To restore the sound, move near toward the transmitter.

After listening to a program

Take the headphones off and rest them away on the holder of the transmitter as shown below.



Note

Do not hang the headphones by the self adjusting band, otherwise, the self adjusting band will be pulled up and the headphones will be switched on.

The effective areas of the transmitter

The optimum distance is up to approximately 150 feet (46 m) without the system picking up some interference. However, the distance may vary according to the surroundings and environment. If the system picks up some noise while using it within the above mentioned distance, reduce the distance between the transmitter unit and the headphones, or select the other channel.

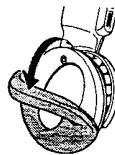
Notes

- When you use the headphones inside the effective areas of the transmitter, the transmitter can be placed in any direction from the listener.
- Even within the signal reception area, there are some spots (dead spot) where the RF signal can not be received. This characteristics is inherent to RF signals, and does not indicate malfunction. By slightly moving the transmitter, location of the dead spot can be changed.

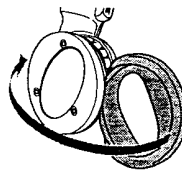
Replacing the ear pads

When the ear pads become dirty or damaged, you can get replacements from your Sony dealer. Replace them as illustrated below.

- 1 Remove the old ear pad by pulling it out of the groove on the housing.



- 2 Place the new ear pad on the driver unit and insert the edge of the pad into the groove as illustrated.



Make sure that the entire edge of the ear pad is securely inserted into the groove.

Additional information

Precautions

- When the headphones are not to be used for a long period of time, remove the batteries to avoid damage caused by battery leakage and subsequent corrosion.
- When the transmitter is not to be used for a long period of time, disconnect the AC power adaptor from the AC outlet holding the plug. Do not pull on the cord.
Also remove the batteries to avoid damage caused by battery leakage and subsequent corrosion.
- Do not leave the wireless stereo headphone system in a location subject to direct sunlight, heat or moisture.

Notes on headphones

Preventing hearing damage

Avoid using headphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce the volume or discontinue use.

Caring for others

Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

If you have any questions or problems concerning the system that are not covered in this manual, please consult the nearest Sony dealer.

Be sure to bring the headphones and the transmitter to the Sony dealer when requiring repair work.

Troubleshooting

No sound/Muffled sound

- Turn on the transmitter first, then the headphones.
- Check the connection of the audio equipment or the AC power adaptor.
- Check that the audio/video equipment is on.
- Turn up the volume on the connected video equipment, if the transmitter to the headphones is on.
- Select the radio frequency with the selector, then tune in the frequency transmitter with the TUNING control.
- The mute function is activated. Use the headphones near the transmitter or select the other channel.
- Charge the rechargeable batteries. POWER indicator is still off after batteries, replace them with new NC-AA-HJ batteries.
- If you are using the conventional replace it with new ones.
- If you connect the transmitter to the REC OUT jack of an audio reproducer that the NOISE FILTER switch is set to OFF.

Distortion

- If the transmitter is connected to the jack, turn down the volume of the audio/video equipment.
- Select the radio frequency with the selector.
- The headphones' POWER indicator or turned off.
- Charge the rechargeable batteries. POWER indicator is still off after batteries, replace them with new NC-AA-HJ batteries.
- If you are using the conventional replace it with new ones.
- If you connect the transmitter to the REC OUT jack of an audio reproducer that the NOISE FILTER switch is set to OFF.

Loud background noise

- Move closer to the transmitter. As away from the transmitter, more noise is heard.
- If the transmitter is connected to the jack, turn up the volume of the connected video equipment.
- Select the radio frequency with the selector, then tune in the frequency transmitter with the TUNING control.
- The headphones' POWER indicator or turned off.
- Charge the rechargeable batteries. POWER indicator is still off after batteries, replace them with new NC-AA-HJ batteries.
- If you are using the conventional replace it with new ones.
- If you connect the transmitter to the REC OUT jack of an audio reproducer that the NOISE FILTER switch is set to OFF.

The batteries cannot be charged

- The dry batteries are installed.
- Install the supplied rechargeable batteries.
- The rechargeable batteries other than are installed.
- Install NC-AA-HJ rechargeable batteries.

Incapable of the tuning

- Turn up the volume moderately, the frequency.

Specifications

General

Carrier frequency 913.0 - 915.0 MHz
Channel Ch1, Ch2, Ch3
Modulation FM stereo
Frequency response 18 - 22,000 Hz

Transmitter

RF power Less than 94 dBµV/m at
Power source DC 9 V: supplied AC power
Audio input phono jacks/stereo min
Dimensions Approx. 120 mm dia x 2
(4 3/4 x 1 1/2 in.) (w/h)
Approx. 155 g (5.5 oz.)

Headphones

Power source DC 3 V: 2 x R6 (size AA
2 x supplied
NC-AA-HJ Ni-
rechargeable be
Mass Approx. 265 g (9.4 oz.) (w/
Ni-cd batteries)

Supplied Ni-Cd rechargeable battery

Model name NC-AA-HJ
Voltage 1.2 V
Capacity 600 mAh

Optional accessories

Ni-Cd rechargeable battery
NC-AA-HJ
Plug adaptor PC-236HG (stereo mini j
monaural mini plug)

Design and specifications are subject to change without notice.