

Wireless Stereo Speaker System

Operating Instructions
Mode d'emploi
Manual de instrucciones

Owner's Record

The model number is located at the bottom of the transmitter and the speaker system. The serial number is located at the bottom of the transmitter and the speaker system. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____
Transmitter _____
Speaker system _____
Serial No. _____
Transmitter _____
Speaker system _____

SRS-RF90RK
SRS-RF90R

Sony Corporation © 2001 Printed in Korea

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.

Information

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 U.S.A.

If you have any questions about this product, you may call:
Sony Direct Response Center 1-(800)-222-7669

or write to:
Sony Direct Response Center 12451 Gateway Blvd. Fort Myers, FL 33913

Declaration of Conformity

Trade Name: SONY
Model No.: SRS-RF90R (Speaker Unit)
Responsible Party: Sony Electronics Inc.
Address: 680 Kinderkamack Road, Oradell, NJ 07649 USA
Telephone No.: 201-930-6972

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For the Customers in Canada

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

RECYCLING NICKEL CADMIUM BATTERIES

Nickel Cadmium batteries are recyclable.

You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.

Note: In some areas the disposal of Nickel Cadmium batteries in household or business trash may be prohibited.

For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit <http://www.rbr.org/>.

Caution: Do not handle damaged or leaking Nickel Cadmium batteries.



Welcome!

Thank you for purchasing the Sony SRS-RF90RK/RF90R Wireless Stereo Speaker 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.
- Reflector attached on the speaker system creates a high fidelity sound field.
- Stylish, blue-illuminated design.

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

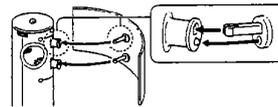
Check that you have the following items:

- The speaker system
- The transmitter (SRS-RF90RK only)
- AC power adaptor (2 for SRS-RF90RK) (1 for SRS-RF90R)
- Connecting cord (phono plugs ↔ stereo mini plug), 1 m

Hooking up the system

Attaching the supplied reflector to the speaker system

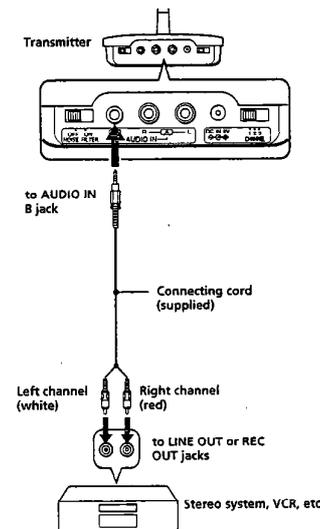
Insert the plugs until its base is settled firmly as illustrated.



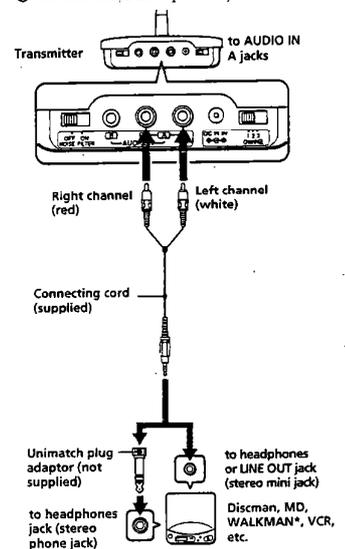
Connecting the transmitter to audio/video equipment

If you have the transmitter supplied with the MDR-RF915RK and MDR-RF945RK, the following setting of the transmitter may not be required. For details on the setting of the transmitter, see the Operating Instruction manual that came with the MDR-RF915RK and MDRRF945RK. Select one of the hookups below depending on the jack type:

Ⓐ To connect to a LINE OUT or REC OUT

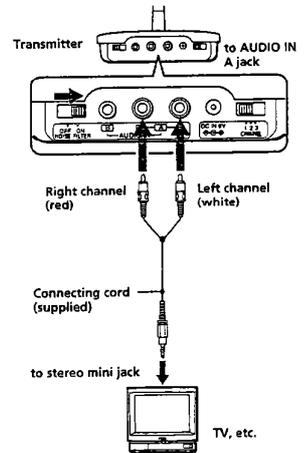


Ⓑ To connect to headphones jack



Ⓒ To connect to TV, etc.

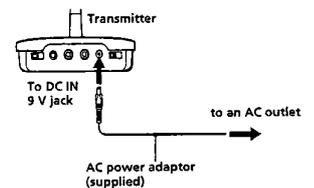
If noise occurs when the transmitter is connected to the headphone jack of your TV or VCR, set the NOISE FILTER switch to ON.



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 case of 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.

Connecting the transmitter to an AC outlet using the supplied AC power adaptor



Notes

- Use only the supplied AC power adaptor. Do not use any other AC power adaptor.



- When you connect the connecting cord directly to an earphone jack, the audio signal will not be output through the right channel. In such a case, use the separately sold PC-236MS plug adaptor.
- If the connected equipment has the AVLS (Automatic Volume Limiter System) function, be sure to turn the function off when using the transmitter. Otherwise, you will have to turn up the volume of the speaker system, and that may cause noise.
- If the connected equipment has the BASS BOOST or MEGA BASS function, be sure to turn the function off when using the transmitter. Otherwise, the sound from the speaker system may be distorted.
- Do not place the transmitter near a fluorescent lamp, etc. when using the system.
- WALKMAN is a registered trademark of Sony Corporation.

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 speaker system, or select another channel.

Notes

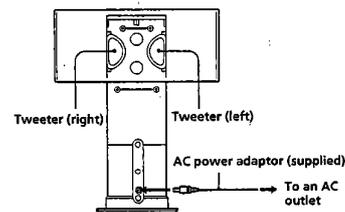
- When you use the speaker system inside the effective areas of the transmitter, the transmitter can be placed in any direction from the listener.
- Even within the signal reception area, there are some spots (dead spots) where the RF signal cannot be received. This is a characteristic inherent to RF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

Charging the speaker system battery

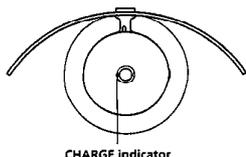
Using the speaker system for the first time

When you use the system for the first time, charge the battery in the following manner.

- 1 Connect the speaker system to a power source.



- 2 The CHARGE indicator on the speaker system will light up to indicate that the battery is being charged.



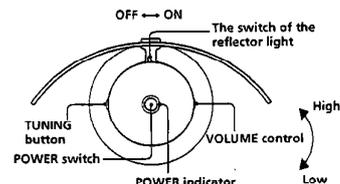
Notes

- It takes about 28 hours to fully charge an empty battery.
- Charge the rechargeable battery within a temperature of 0°C to 35°C.
- If you turn on the speaker system while charging the battery, battery charging stops and the CHARGE indicator turns off. You can use the speaker system by the power from the AC adaptor.
- The duration time of the rechargeable battery is about 6 hours. If the light of the reflector becomes weak, it means the rechargeable battery is low. So, turn off the speaker system and charge the battery.
- Even after battery charging is finished, the CHARGE indicator always lights up.
- The life of the built-in rechargeable battery is about 3 years. But it differs depending on operating conditions.
- Use only the supplied AC power adaptor. Do not use any other AC power adaptor.

Operating the system

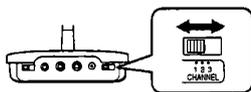
Listening to a program

Before using the speaker system, charge the built-in rechargeable battery first. Turn down the volume of the speaker system before playing back a program on the connected audio/video equipment.



- 1 First turn on the audio/video equipment and start playing. The power indicator will light up.
- 2 Turn on the speaker system. The power indicator of the speaker system will light in red.

- 3 Select the radio frequency with the CHANNEL selector.



- 4 Turn up the volume to a moderate level with the VOL control. Press the TUNING button briefly for automatic tuning of the headphones. If you do not receive a clear audio signal, press it again.

Sending RF signals from the Transmitter

The transmitter starts sending the RF signals automatically, when it detects audio signals from the equipment connected.

If it does not detect an audio signal for more than approximately four minutes, the transmitter will stop sending RF signals, and the power indicator turns off.

When the transmitter receives an audio signal again, it starts sending the RF signals, and the power indicator will light in red again. If the audio signal is very weak, the transmitter does not send RF signals. If the transmitter is connected to a headphone jack, make sure the volume of the equipment connected is set to 5 - 6 or higher.

You may not hear the beginning of the sound from the speaker system 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.

To use the illumination of the reflector

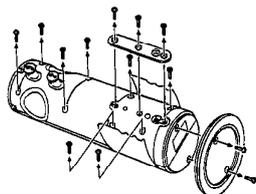
Turn on the switch of the reflector light.

Notes

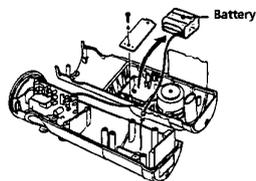
- If a hissing noise is heard, move it closer to the transmitter.
- If you turn up the volume of the speaker system too high, the light of the reflector may flicker. But this is not a malfunction.
- If you hold the antenna of the transmitter with your hand, noise may occur. But this is not a malfunction.

Removing the rechargeable battery

- 1 Remove 13 screws from the speaker system using a cross-point screw driver as illustrated below.



- 2 Open the cabinet of the speaker system and remove the one screw to remove the rechargeable battery as illustrated.



Additional information

Precautions

- 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.

Notes on the location you set the speaker system

- Do not leave the wireless speaker system in a location subject to:
 - Direct sunlight or extremely high temperature such as near a heater or in a car with its windows closed.
 - High humidity such as in a bathroom.
 - Excessive dust or sandy places.
 - Near a watch or cash card, etc. The speaker system is magnetically shielded, but do not put a recorded tape, watch, cash card or floppy disk in front of the speaker system.
- Set up the speaker system on a flat surface.
- Depending on where you set the speaker system, it may fall down. Do not leave valuables near the speaker system.

Notes on charging the battery

- When you charge the rechargeable battery, use the supplied AC adaptor only.
- The charging time differs depending on usage conditions of the battery.
- When you use the battery for the first time or the battery is not to be used for a long time, the battery duration time may become shorter than the usual duration time. However, after you charge the battery several times, the battery duration time returns to its normal condition.
- If the battery duration time becomes half of its normal time even after the battery is charged fully, the battery is worn out. In this case, consult your nearest Sony dealer.

Notes on using the speaker system

- Do not disassemble the speaker unit, built-in amplifier or cabinet.
- Do not insert an object into the jack. Doing so may cause a malfunction.
- Keep the volume at a moderate level to prevent distortion.
- Do not carry the speaker unit by its reflector. If you do so, the speaker system may detach from the reflector.

Note on cleaning

Clean the cabinet of the speaker system with a soft cloth slightly moistened with water or a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene as it may mar the finish of the cabinet.

When the color of your monitor screen becomes irregular

Because this speaker system is magnetically shielded, you can set it up near a monitor. But depending on the model of the monitor, color irregularity may occur.

To correct the color irregularity

Turn off the monitor, and then turn it on again after 15 to 30 minutes.

If color irregularity remains after performing the above

- Separate the monitor and the speaker system.
- Make sure that no magnetic object, such as may be attached to a door of shelf, healthcare device or toys, etc., is located near the speaker system.

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

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

Disposing of the speaker system

Be sure to remove the built-in rechargeable batteries from the speaker system before you dispose of the speaker system.

Troubleshooting

No sound/Muffled sound

- Check the connection of the audio/video equipment.
- Check that the audio/video equipment is turned on.
- Turn up the volume on the connected audio/video equipment, if the transmitter is connected to the headphones jack.
- Change the radio frequency with the CHANNEL selector on the transmitter, then press the TUNING button again.
- The speaker system's POWER indicator light is weak or turned off.
 - Charge the built-in rechargeable battery or if the POWER indicator is still off after charging the built-in rechargeable battery, take the speaker system to a Sony dealer for replacement of the rechargeable battery.

- If you connect the transmitter to the LINE OUT or REC OUT jack of an audio reproducer, make sure that the NOISE FILTER switch is set to OFF.
- Make sure that the NOISE FILTER switch is set to either ON or OFF (if the switch gets stuck between ON and OFF, the sound will be cut off).

Distortion

- If the transmitter is connected to the headphones jack, turn down the volume of the connected audio/video equipment. If the connected audio/video equipment has bass boost function, set its function to OFF.
- If the connected audio/video equipment has a LINE OUT jack, connect its LINE OUT jack.
- Change the radio frequency with the CHANNEL selector on the transmitter.
- The speaker system's POWER indicator light is weak or turned off.
 - Charge the built-in rechargeable battery or if the POWER indicator is still off after charging the built-in rechargeable battery, take the speaker system to a Sony dealer for replacement of the rechargeable battery.
- If you connect the transmitter to LINE OUT or REC OUT jack of an audio reproducer, make sure that the NOISE FILTER switch is set to OFF.

Loud background noise

- Move closer to the transmitter. As you move away from the transmitter, more noise is likely to be heard.
- If the transmitter is connected to the headphones jack, turn up the volume of the connected audio/video equipment.
- Change the radio frequency with the CHANNEL selector on the transmitter, then press the TUNING button again.
- The speaker system's POWER indicator light is weak or turned off.
 - Charge the built-in rechargeable battery or if the POWER indicator is still off after charging the built-in rechargeable battery, take the speaker system to a Sony dealer for replacement of the rechargeable battery.
- If you connect the transmitter to the LINE OUT or REC OUT jack of an audio reproducer, make sure that the NOISE FILTER switch is set to OFF.

The battery duration time is short

- If you use the battery under the temperature lower than 0°C, this is not a malfunction.
- The battery life may end. If the battery duration time becomes half of its normal time even after the battery is charged fully, consult your nearest Sony dealer.

Specifications

General

Carrier frequency	913.5 - 914.5 MHz
Channel	Ch1, Ch2, Ch3
Modulation	FM stereo
Frequency response	80 - 20,000 Hz

Transmitter

Power source	DC 9 V: supplied AC power adaptor (AC-5901)
Audio input	phono jacks/stereo mini jack
Input impedance	33 kΩ/51Ω switchable
Dimensions	Approx. 136 × 136 × 100 mm (6 × 6 × 4 1/3 in.) (w/h/d)
Mass	Approx. 146 g (5.2 oz.)

Speaker system SRS-RF90RK, SRS-RF90R

Speaker system	2 way magnetically shielded
Enclosure type	Bass reflex
Speaker units	woofer: 30 mm × 2 woofer: 57 mm × 1
Power source	DC 9 V: supplied AC adaptor (AC-5906T)
Rated output	4 W (while using the supplied AC adaptor)
Dimensions	Approx. 234 × 300 × 126 mm (9 1/4 × 11 7/8 × 5 in.) (w/h/d)
Mass	Approx. 905 g (31.9 oz.) incl. built-in rechargeable battery

Built-in Ni-Cd rechargeable battery

Voltage	7.2 V
Capacity	700 mAh
Duration time	Approx. 4- hours (with the 10 mW reflector light OFF)
Charging time	Approx. 28 hours (from fully discharged to fully charged)

Supplied accessory

The transmitter (SRS-RF90RK only)
AC adaptor (2 for SRS-RF90RK) (1 for SRS-RF90R)
Connecting cord phono plug-stereo miniplug (1m) (1)
Operating instructions (1)

Optional accessory

Plug adaptor
PC-236MS (stereo mini jack ↔ monaural mini plug)

Design and specifications are subject to change without notice.