FM Stereo/AM PLL Synthesized Headphone Radio

SRF-HM55

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference,

Sony Corporation ©1992 Printed in Japan

Owner's Record

The model and serial numbers are located at the left rear. Record the serial number in the space provided below.

Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. SRF-HM55 Serial No.

Features

- FM Stereo/AM PLL (Phase Loced Loop) synthesized headphone radio
 Adjustable double headbands designed to fit your head
 The AVLS (Automatic Volume Limiter System) to allow you to limit the maximum volumithout degrading the sound quality
 Water-resistant for all-weather operation
 Capability to preset up to 5 stations in each band preset in the desired order
 Light reflector to reflect car lights at night for your safety

WARNING

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

INFORMATION
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These timits 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, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment dose cause harmful interference to radio or technicism constitution is protected to the interference of the protection within the set where the protection is protected. 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

- 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.

Specifications

ancy range (Channel Step) FM:87.5 – 108 MHz (0.1 MHz) AM:530 – 1710 kHz (10 kHz)

FM:87.5 - 106 MHz (0.05 MHz)* AM:531 - 1710 kHz (9 kHz)

phone type Dynamic

18 mW + 18 mW (at 10% harmonic distortion)

3 V DC two size AA (RS) batte

Approx. 33 hours, with Sony SUM-3 (NS) batteries Approx. 227 g (8 oz) including batteries

•The frequency display is raised or lowered by steps of 0.1 MHz. (Example: Frequency 86.06 MHz is displayed as "88.0 MHz".)

Design and specifications subject to change without notice.

Precautions

- Do not open the unit. Refer servicing to qualified personnel only.
- . Operate the unit on 3 V DC with two size AA (R6) batteries.
- When the unit is not to be used for a long period of time, remove the batteries to avoid unit damage from battery leakage.
- Avoid exposure to temperature extremes, direct sunlight, moisture, sand, dust, or mechanical shock. Never leave in a car parked in the sun.
- Should any liquid or solid object fall into the unit, remove the batteries, and have the unit checked by qualified personnel before operating it any further.
- Clean the unit with a soft cloth dampened with a mild detergent solution.
 Never use abrasive cleansers or chemical solvents, as they may mar the unit.
- In vehicles or buildings, radio reception may be difficult or noisier. Try listening near a window.
- If there is lightning when you are using the unit, take off the headphone receiver immediately.

Do not immerse in water of

This product is designed to be water-resistant, but should not be immersed in water or come in continuous contact with water.

Before installing the batteries, be sure to wipe off drops of water on the unit. Never use an electric hair dryer while wearing the headphones.

Note on AM channel step

The AM channel step differs depending on areas. The channel step of this unit is factory-set to 10 kHz. You can change the channel step (See "Changing AM channel step".)

Area	Channel Step
North American countries	10 kHz
Other countries	9 kHz

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Road Safety

Do not use headphones while driving, cycling, or operating any motorized vehicle. It may create a traffic hazard and is illegal in many areas. It can also be potentially dangerous to play your headsets at high volume while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue use in potentially hazardous situations.

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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 volume or discontinue use.

Caring for others

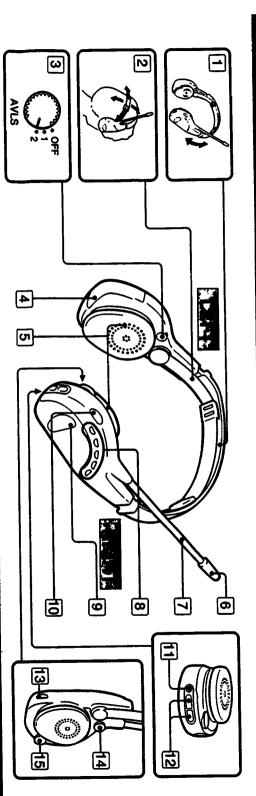
Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

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

Troubleshooting Guide

Trouble	Causes
Sound is not heard at all.	Incorrect polarity of batteries. Weak batteries. VOL is turned down completely.
Very weak or interrupted sound, distorted sound when volume is turned up, or unsatisfactory reception.	Weak batteries. Incorrect tuning. Weak signal. → When in a vehicle or in a building, listen near a window. SENS is set to LOCAL. → Set it to DX.
Presetting cannot be made.	 Incorrect presetting. When storing the station, press ENTER before pressing the desired preset button.
The preset station cannot be received.	Incorrect preset button has been pressed. The preset station has been cleared when replacing batteries. (Batteries should be replaced within three minutes.)
No display even when POWER is on.	Weak batteries.

Locations of Controls



2 Support band 1 Headbend Adjust it to your head.

8 Preset buttons

These buttons can preset up to 5 stations in

Line Li

9 Display window

each band.

the batteries, the frequency, the preset number The indicator displays the power remaining in

3 AVLS selector degradation of the sound quality, even if you 2, (around 95 dB, 85 dB respectively) the volume When this selector is set to either position 1 or will be kept at a moderate level without

5 Driver units 4 Battery compartment

6 Light reflector

This reflector reflects car lights at night for your

7 FM flexible antenna

Use for FM reception.

When this selector is turned off, you will be attempt to turn the volume up higher. able to enjoy the full volume capability of your

10 Band button

and the time.

Use for changing FM and AM.

12 TUNE (turning)/TIME SET (+ and -) buttons 13POWER button Use for tuning the frequency and setting time.

11 ENTER/CLOCK button Use for storing station and setting clock.

15 VOL (Volume) control [14] FM SENS (Sensitivity) DX/LOCAL selector

1 Turn off the power by pressing the POWER button, if 2 While pressing the ENTER/CLOCK button, keep it is turned on. proceed step 2 again, the interval changes again. pressing the POWER button for more than 5 seconds. The AM tuning interval has been changed. If you

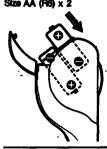
If you proceed with the steps above, the clock and the preset

memory are canceled, and "AM 12:00" flashed

Installing Batteries



Size AA (R6) x 2



When to replace the batteries

When the batteries become weak, sound becomes weak or the stereo sound becomes monaural. When the batteries are run down completely, the power is turned off and the " agg " in the display window flashes. When the power is turned on with the " in the display window while the " pag " starts flashing, replace both batteries with new ones. After the batteries are replaced, turn the power on again to stop the flashing. of the indication.

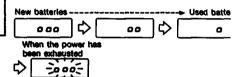
When replacing the batteries

Replace the batteries within about 30 seconds. If you do not replace them within 30 seconds, the preset stations may be canceled, and "AM 12:00" flashes in the display window.
For battery life, see "Specifications".

To avoid damage from battery leakage and corrosion Remove the batteries when you do not use the unit for a long time.

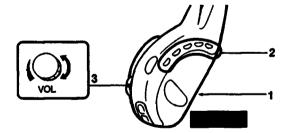
When the batteries are removed for a long time Preset stations are canceled and "AM 12:00" is displayed. Preset stations again and reset the clock.

The indication of the power remaining in the battery



When you turn on the unit, the power remaining in the battery is displayed for about one second and a half. The unit displays one of the four indications depending on the power remaining in the battery.

Listening to a Preset Station



- 1 Press the POWER button.
- 2 Press the desired preset button.
- 3 Adjust the VOL (volume).

On FM SENS DX/LOCAL Selector

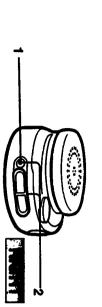
DX: Normally set it to this position and the radio operates in stereo mode for FM stereo programs and will be automatically switched to mono for nonstereo programs.

LOCAL: Set it to this position, if a very strong station signal causes noise or if multipath* occurs. The reception will be more stable and noise will be reduced.

 Multipath, which often occurs in a street with big buildings or in a mountainous area, is reflection of signals that reach the receiver from structures or hills considerably later than direct signals. A multipath condition brings about highfrequency noise, distortion, and a poor stereo effect in FM reception.

Setting the Clock

Set the clock or display time when the radio is turned off



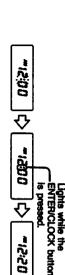
When you insert batteries for the first time, digits flash in the display window. To stop flashing, press the ENTER/CLOCK button.

When you keep the button pressed, the digits change rapidly Lights while the

2 While pressing the ENTER/CLOCK button, press the TUNE/TIME SET buttons

("+" or "-") to set the clock to the current time. Each time the TUNE/TIME

SET button is pressed, the digits move forward or back by one



3 When you release the ENTER/CLOCK button, the clock starts to operate and it sounds, the clock starts from zero second. If you release the ENTER/CLOCK button simultaneously with the time signal as ":" of the time indication flashes. 00221 02:21...

Tuning in and Presetting Stations

- 1 Press the POWER button.
- 2 Adjust the VOL (volume)
- 3 Select a desired band.
- +: To tune in a higher frequency To tune in a lower frequency

4 Tune in a desired station.

...89.0

5 Store the station. number button. Then the preset number appears in the display window. While keeping the ENTERICLOCK button pressed, press the desired preset

Repeat these steps for each station to be preset.

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To turn off the radio, press the POWER button Up to 5 stations in each band can be preset.

To change the preset stattor that button will be erased. Preset a new station to a desired preset button; the station previously preset for

TRANSISTOR RADIO

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LIMITED WARRANTY

SONY ELECTRONICS INC. ("SONY") werrants this product against defects in material or with manahin, so follows:

For a period of 1 year from the date of purchase. SONY will pay the labor charges of your SONY authorized service facility to repair the defective product. After this 1 year period, you must pay for all labor charges.
 In addition, SONY will supply, at no charge, new or rebuilt replacements for defective perts for a period of 1 year from the onginal date of purchase.

To obtain warranty service, you must take the product, or deliver the product prepaid, to a SCNY authorized service facility.

This warranty does not cover cosmetic damage, and damage due to acts of God, accident, masues, abute, or negligence to this product including antenna. This warranty is valid only in the United States of America.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the warranty period must be presented to obtain warranty service.

This warranty is valid only if the serial number appears on the product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REME-DY OF THE CONSUMER, SONY SHALL NOT BE UABLE FOR ANY INCIDENTAL OR CONSEQUEN-TIAL DAMAGES FOR BREACH OF ANY SUPRESS OR IMPUED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPUED WARRANTY OF MERCHANTABLITY OR FINESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential dameges, or allow limitations on how long an implied warranty tests, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which very from state to state.

For your convenience, Sony Electronics Inc. has established the Customer Information Cer supply you with product or service information.

Important: If returning product for service, please see reverse side of this card for your ni Sony Service Center.

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