

EXHIBIT C

User Manual

SONY.

3-048-609-11 (1)

Cordless Telephone

Operating Instructions

Manual de Instrucciones (Verso)

Owner's Record

The model and the serial numbers are located at the bottom of the unit. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. SPP-N1000 Serial No. _____

900MHz

SPP-N1000 / N1003 / 1001 / 1004

Sony Corporation © 2000 Printed in Taiwan, R.O.C.

For the customers in the USA

Be sure to save the receipt and attach it to your WARRANTY card when having your equipment repaired at an authorized Sony service station.

For the customers in the USA

IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation. To protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on the bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it.
9. Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
10. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
11. To reduce the risk of electric shock, do not disassemble this product, but take it to a qualified service personnel when some service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
12. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the product.
 - C. If the product has been exposed to rain or water.
 - D. If the product does not operate normally by following the operation instructions. Adjust only those controls that are covered by the operating instructions because improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - E. If the product has been dropped or the cabinet has been damaged.
 - F. If the product exhibits a distinct change in performance.
13. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
14. Do not use the telephone to report a gas leak in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

CAUTION:

To reduce the risk of fire or injury to persons by battery, read and follow these instructions.

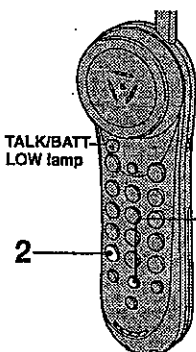
1. Use only the following type and size battery pack: Sony BP-T50.
2. Do not dispose of the battery pack in a fire. The cell may explode. Check with local codes for possible special disposal instructions.
3. Do not open or mutilate the battery pack. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
4. Exercise care in handling battery in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.
5. Charge the battery pack provided with or identified for use with this product only in accordance with the instructions and limitations specified in the instruction manual provided for this product.
6. Observe proper polarity orientation between the battery pack and battery charger.

INFORMATION FOR GENERAL TELEPHONES

1. This equipment complies with Part 68 of the FCC rules. On the bottom of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

Choose the dialing mode

For the telephone to work properly, select an appropriate dialing mode (tone or pulse). The default setting is tone.

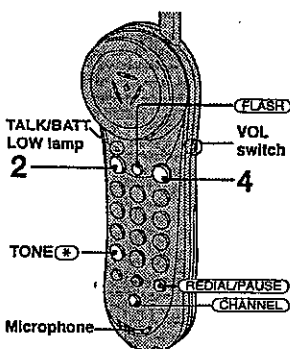


- 1 Press **PGM**.
The TALK/BATT LOW lamp flashes.
- 2 Press **tone** **(*)**.
You hear a confirmation beep.
- 3 Press **1** for pulse dialing or **2** for tone dialing.
- 4 Press **PGM**.
You hear a long confirmation beep and the TALK/BATT LOW lamp goes off.

Note
Do not allow more than 20 seconds to elapse between each step of the procedure.

Making and receiving calls

Making calls



- 1 Pick up the handset from the base unit.
- 2 Press **TALK**, and wait until the TALK/BATT LOW lamp lights up.
You then hear a dial tone. If you hear beeps, move closer to the base unit.
- 3 Dial the phone number.
- 4 When you're done talking, press **OFF**.
The TALK/BATT LOW lamp goes off.

Receiving calls

- 1 When you hear the phone ring;
 - Press **TALK** (or any key except **OFF**).
 - or
 - Pick up the handset from the base unit when the handset is placed on the base unit.
 The TALK/BATT LOW lamp lights up.
- 2 When you're done talking, replace the handset on the base unit or press **OFF**.
The TALK/BATT LOW lamp goes off.

Additional tasks

To	Do this
Adjust the handset volume	Set the VOL switch to H (high), M (middle) or L (low).
Switch to tone dialing temporarily	Press tone (*) after you're connected. The line will remain in tone dialing until disconnected.
Set the ringer type	While the handset is not in use, press CHANNEL . Each press of CHANNEL switches the ringer type by one of four type.
Switch to another call ("call waiting service"*)	Press FLASH . Press the button again to get back to the first caller.

* You need to subscribe to the service from your telephone company.

Notes

- Do not cover the microphone during the conversation; otherwise, the other party cannot hear your voice.
- If you hear beeps during the conversation, move closer to the base unit; otherwise, the call will be disconnected after 15 seconds. Note that, however, you may not hear beeps if it's noisy on the handset.

If interference occurs on the handset

When you press **TALK**, the handset automatically searches for the channel with the best reception. However, if you notice interference during a conversation, move closer to the base unit.

If interference persists, press **CHANNEL** to switch to another channel to improve the sound quality of your telephone conversation.

Note

If you hear five short beeps when you press **CHANNEL**, move closer to the base unit.

If the handset battery becomes weak during a call

The handset will beep every three seconds with the TALK/BATT LOW lamp flashing at the same time. Finish your call and charge the battery pack.

Caution

If this occurs, you cannot use the handset without charging it for more than one minutes.

Redialing

- 1 Press **TALK**, and wait until the TALK/BATT LOW lamp lights up.
- 2 Press **REDIAL/PAUSE** to redial the number last dialed.

Note

If the number exceeds 32 digits, the beeps will alert you that the number cannot be dialed.

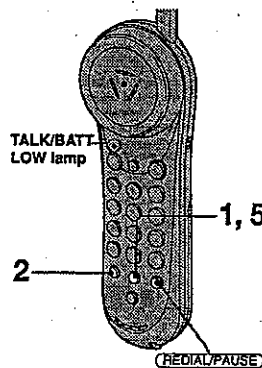
To erase the last phone number dialed

Press **REDIAL/PAUSE** twice.
The number will be erased from the memory, and you'll hear a long confirmation beep.

Speed dialing

You can dial with a touch of a few keys by storing a phone number on a dialing key.

Storing phone numbers



- 1 Press **PGM**.
The TALK/BATT LOW lamp flashes.
- 2 Press **SPEED DIAL**.
- 3 Press one of the dialing keys (**0** to **9**) to store a phone number on.
You hear a confirmation beep.
- 4 Enter the phone number you want to store.
You can enter up to 20 digits, including a tone and a pause, each of which is counted as one digit.
- 5 Press **PGM**.
You hear a long confirmation beep, and number is stored. The TALK/BATT LOW lamp goes off.

Note

Do not allow more than 20 seconds to elapse between each step of the procedure.

Tips

- If you enter a wrong number, press **PGM**, then start from the beginning.
- You can attach the supplied directory on the handset.

To store a number to be dialed via Private Branch Exchange (PBX)

Before entering a phone number in step 4, do as follows:

- 1 Enter the outside line access digit (e.g., 9).
- 2 Press **REDIAL/PAUSE**.

To change a stored number

Store a new number, as described previously.

Note

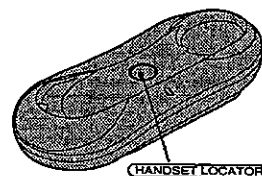
You can replace the stored number with a new number, but you cannot just erase it.

Making calls with speed dialing

- 1 Press **TALK** and wait until the TALK/BATT LOW lamp lights up.
- 2 Press **SPEED DIAL**.
- 3 Enter the desired speed dialing number (**0** to **9**).
The phone number stored in the speed dialing number will be dialed.

Paging

You can page the handset from the base unit. Note that you cannot page if the handset is in use.



Press **HANDSET LOCATOR**.

The handset rings for about one minute.

To end the page, press **OFF** on the handset.

- The applicable registration jack (connector) USOC-RJ11C is used for this equipment.
- This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack that is Part 68 compliant. The FCC compliant telephone cord and modular plug is provided with this equipment.
- The REN is used to determine the quantity of devices that may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. Typically, the sum of the REN's should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.
- If this equipment (SPP-N1000) causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.
- The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice so you can make necessary modifications to maintain uninterrupted service.
- If trouble is experienced with this equipment (SPP-N1000), for repair or warranty information, please contact Sony Direct Response Center: Tel 1-800-222-7669. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.
- All repairs will be performed by an authorized Sony service station.
- This equipment cannot be used to party lines or coin lines.
- This equipment is hearing aid compatible.

If your telephone is equipped with automatic dialers

When programming emergency numbers and (or) making test calls to emergency numbers:

- Remain on the line and briefly explain to the dispatcher the reason for the call.
- Perform such activities in the off-peak hours, such as early morning or late evenings.

Caution

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

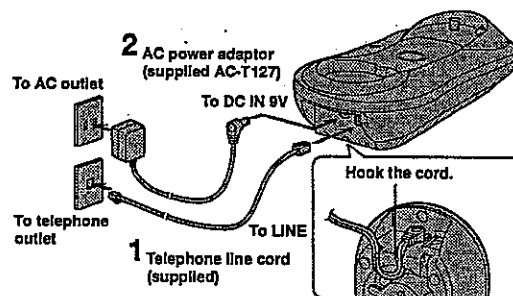
Setting up the phone

Caution

The cordless telephone operates at a frequency that may cause interference to nearby TVs and VCRs; the base unit should not be placed near or on the top of a TV or VCR; and, if interference is experienced, moving the cordless telephone farther away from the TV or VCR will often reduce or eliminate the interference.

Connect the base unit

If you want to hang the base unit on the wall, mount the unit first (see "Mounting the base unit on the wall").



- 1 Connect the telephone line cord to the LINE jack and to a telephone outlet.
- 2 Connect the AC power adaptor to the DC IN 9V jack and to an AC outlet.

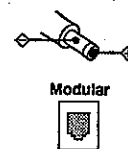
Notes

- Use only the supplied AC-T127 AC power adaptor. Do not use any other AC power adaptor.
- Connect the AC power adaptor to a continuous power supply.
- Place the base unit close to the AC outlet so that you can unplug the AC power adaptor easily.

Tip

If your telephone outlet is not modular, contact your telephone service company for assistance.

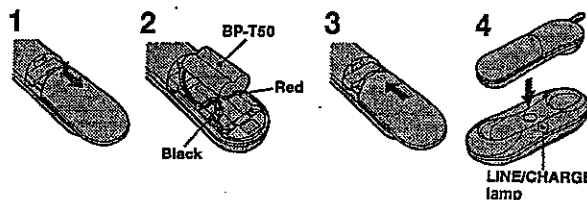
Polarity of the plug



Prepare the battery pack

Insert the battery into the handset and charge first before you start using your phone.

- 1 Slide open the battery compartment lid of the handset.
- 2 Connect the battery connector with correct polarity (black wire goes on lower side and red wire goes on upper side).
- 3 Insert the battery pack, and close the lid.
- 4 Place the handset on the base unit.
The LINE/CHARGE lamp lights up when the handset is properly seated on the charge terminals of the base unit. Charge the battery pack for more than 12 hours so that the battery is fully charged. The LINE/CHARGE lamp remains lit even after charging is completed.



Battery duration

- A fully charged battery pack lasts for about:
- 6 hours when you use the handset continuously.
 - 14 days when the handset is in standing by.

Notes

- The battery pack will gradually discharge over a long period of time, even if not in use.
- If you leave the battery pack in the handset without charging it, the battery pack will be completely discharged. It may require several times of charging to recover to its full capacity.
- If the battery runs out completely, the setting of dialing mode, the speed dial numbers and the digital security code will be erased. If this happens, charge it on the base unit for over 12 hours. Then choose the dialing mode, set the ringer type, reprogram the speed dial numbers, and assign a new digital security code (see "Resetting the digital security code"). You may need to charge the battery several times before it is recharged to its full capacity.

To obtain the best performance from battery

Do not place the handset on the base unit after each call. The battery works best if the handset is returned to the base unit after two or three calls. However, do not leave the handset off the base unit for a long period of time as this will completely discharge the battery pack.

When to purchase a new battery pack

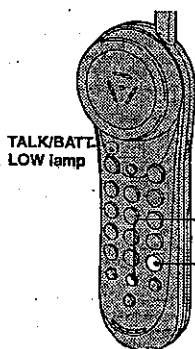
If the battery lasts only a few minutes even after 12 hours of charging, the usable life of the battery has expired and needs replacement. Contact your local Sony authorized dealer or service center, and ask for Sony BP-T50 rechargeable battery pack.

Note

Battery life may vary depending on usage condition and ambient temperature.

Resetting the digital security code

The first time you charge the battery pack, a random security code is automatically assigned between the base unit and the handset. Only a handset which has this security code can make calls through the base unit. This system prevents the possibility of other cordless telephone handsets making calls through your base unit. You normally do not need to reset the security code. However, in the unlikely event that you suspect that another cordless phone uses the same security code, you can manually change the code. Pick up the handset from the base unit, and proceed as follows:



- 1 Press **(PGM)**.
The TALK/BATT LOW lamp flashes.
- 2 Press **(*)**.
You hear a confirmation beep.
- 3 Press three of the dialing keys (001 to 999) to store a new code.
- 4 Press **(PGM)**.
You hear a long confirmation beep and the TALK/BATT LOW lamp goes off.
- 5 Immediately replace the handset on the base unit.
You hear a long confirmation beep and the phone stores the new code.

Note

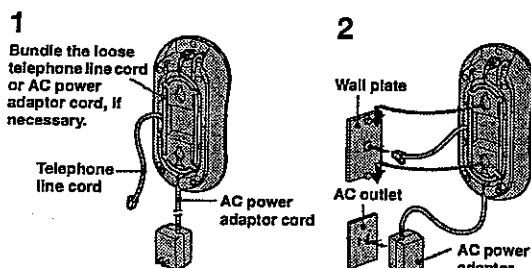
If the battery pack in the handset is completely discharged, or is removed from the handset for more than several seconds, the digital security code stored will be lost. If this happens, charge the battery pack and a new security code will be automatically assigned.

Tip

This procedure will change the code in both the base unit and the handset. The code can be changed as often as desired.

Mounting the base unit on a wall

- 1 Attach the telephone line cord and AC power adaptor cord to the base unit. Bundle the loose telephone line cord or AC power adaptor cord, if necessary.
- 2 Plug the telephone line cord into the telephone outlet, and hook the base unit to the wall plate as illustrated.



Maintenance

- Clean the cabinets 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 they may damage the finish of the cabinet.
- If the charge terminals of the base unit and handset are soiled, wipe them with a soft cloth.

If you have any questions or problems concerning your phone, please consult your nearest Sony dealer.

Notes on power sources

On battery pack

- Store the battery pack at a temperature between 41°F (5°C) and 95°F (35°C) for best performance.
- If you do not use the cordless handset for a long period of time, remove the battery pack.

On power failure

- During a power interruption, you cannot make or receive calls.

For the customers in the USA

RECYCLING NICKEL-CADMIUM BATTERIES

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

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

RBRC (Rechargeable Battery Recycling Corporation) advises you about spent battery collection by the following phone number.

Call toll free number: 1-800-822-8837 (United States and Canada only)

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



Troubleshooting

Should any problem persist after you have made these checks, consult your nearest authorized Sony dealer.

Symptom	Remedy
The handset does not make or receive a call.	• Reset the digital security code. • Place the base unit away from noise sources such as TV, FM radio or PC. • Make sure the base unit is connected to an AC outlet. • The battery pack may be discharged. Charge the battery pack for more than 12 hours.
You hear no dial tone.	• Make sure the telephone line cord is securely connected to the telephone outlet.
The handset does not connect at all, even the numbers you dial are correct.	• Choose an appropriate dialing mode again.
The handset does not redial correctly.	• Make sure the number (including the tone and pause digits, if used) you last dialed is less than 32 digits.
The handset does not make a speed dialing call.	• Make sure there is a phone number correctly stored in the speed dialing. • Store the desired phone number once more.
The handset does not ring.	• Make sure the base unit is connected to an AC outlet.
The handset does not ring when paging from the base unit.	• The battery may have little or no power. Charge the battery pack for more than 12 hours. • Place the base unit away from noise sources.
You hear a beep every three seconds and the TALK/BATT LOW lamp flashes.	• Charge the battery pack for more than 12 hours.
The handset does not work.	• The battery pack may be discharged. Charge the battery pack for more than one minute. After this initial one minute, you may be able to use the handset, but more than 12 hours are necessary for full charging.

Specifications

General

Operating frequency	900 MHz bands
Frequency control	Crystal-controlled PLL
Operation mode	FM, duplex
Operation channel	30 channels
Supplied accessories	AC power adaptor AC-T127 Telephone line cord Rechargeable battery pack BP-T50 Directories (2 sheets)

Handset

Power source	Rechargeable battery pack BP-T50
Battery life	Standby: Approx. 14 days Talk: Approx. 6 hours
Dimensions	Approx. 2 1/4 x 7 1/4 x 1 13/16 inches (w/h/d), antenna excluded (approx. 55 x 180 x 48 mm) Antenna: Approx. 1 1/4 inches (approx. 27 mm)
Mass	Approx. 5.5 oz (approx. 155 g), battery included
Base unit	
Power source	DC 9V from AC power adaptor
Battery charging time	Approx. 12 hours
Dimensions	Approx. 3 1/4 x 2 1/4 x 8 1/4 inches (w/h/d) (approx. 97 x 52 x 212 mm)
Mass	Approx. 7.6 oz (approx. 215 g)

Design and specifications are subject to change without notice.