

# SONY WH-CH700N

## Wireless Noise Canceling Stereo Headset

It's important to read this instruction book prior to using your new product for the first time.

### English

#### FOR UNITED STATES CUSTOMERS. NOT APPLICABLE IN CANADA, INCLUDING IN THE PROVINCE OF QUEBEC.

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.

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

This equipment must not be co-located or operated in conjunction with any other antenna or transmitter.

#### 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.

This device complies with Industry Canada's licence-exempt RSSs. 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.

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that is deemed to comply without testing of specific absorption rate (SAR).

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"Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

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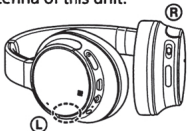
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## Precautions

### On BLUETOOTH® communications

- Bluetooth wireless technology operates within a range of about 10 m (30 feet). Maximum communication range may vary depending on obstacles (human body, metal, wall, etc.) or electromagnetic environment.
- Bluetooth communications may be disabled, or noise or audio dropout may occur under the following conditions.
  - There is a human body between the unit and the Bluetooth device. This situation may be improved by placing the Bluetooth device facing the antenna of the unit.
  - There is an obstacle, such as metal or a wall, between the unit and the Bluetooth device.
  - A Wi-Fi device or microwave oven is in use, or microwaves are emitted near the unit.
  - The antenna is built into the unit as illustrated in the dotted line. The sensitivity of the Bluetooth communications will improve by removing any obstacles between the connected Bluetooth device and the antenna of this unit.



- Because Bluetooth devices and Wi-Fi (IEEE802.11b/g/n) use the same frequency (2.4 GHz), microwave interference may occur resulting in noise or audio dropout or communications being disabled if this unit is used near a Wi-Fi device. In such a case, perform the following.
  - Use this unit at least 10 m (30 feet) away from the Wi-Fi device.
  - If this unit is used within 10 m (30 feet) of a Wi-Fi device, turn off the Wi-Fi device.
  - Install this unit and the Bluetooth device as near to each other as possible.
- Microwaves emitting from a Bluetooth device may affect the operation of electronic medical devices. Turn off this unit and other Bluetooth devices in the following locations, as it may cause an accident:
  - where inflammable gas is present, in a hospital, or a petrol station
  - near automatic doors or a fire alarm.
- Due to the characteristic of the wireless technology, the sound played on this unit is delayed from the sound and music played on the sending device. Therefore, the image and sound may be misaligned when viewing a movie or playing a game.

- Do not use the unit on an airplane. Radio waves may affect instruments, causing an accident due to malfunction.
- This unit supports security capabilities that comply with the Bluetooth standard to provide a secure connection when the Bluetooth wireless technology is used, but security may not be enough depending on the setting. Be careful when communicating using Bluetooth wireless technology.
- We do not take any responsibility for the leakage of information during Bluetooth communications.
- Connection with all Bluetooth devices cannot be guaranteed.
  - A device featuring Bluetooth function is required to conform to the Bluetooth standard specified by Bluetooth SIG, Inc. and be authenticated.
  - Even if the connected device conforms to the above mentioned Bluetooth standard, some devices may not be connected or work correctly, depending on the features or specifications of the device.
  - While talking on the phone hands free, noise may occur, depending on the device or communication environment.
- Depending on the device to be connected, it may require some time to start communications.

### If sound skips frequently during playback

- The situation may be improved by setting the sound quality mode to "priority on stable connection."
- The situation may be improved by changing the wireless playback quality settings or fixing the wireless playback mode to SBC on the transmitting device. For details, refer to the operating instructions supplied with the transmitting device.
- If you are using a smartphone, the situation may be improved by shutting down unnecessary applications or rebooting the smartphone.

### On the use of calling apps for smartphones and computers

- This unit supports normal incoming calls only. Calling apps for smartphones and computers are not supported.

### On charging the unit

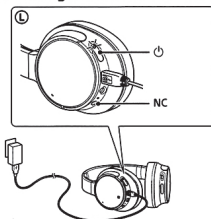
- This unit can be charged using USB only. Personal computer with USB port is required for charging.
- This unit cannot be turned on, nor can the Bluetooth and noise canceling functions be used, during charging.
- You can use the unit by connecting the supplied headphone cable, even while charging the unit.
- If you do not use the unit for a long time, the rechargeable battery may not be able to keep sufficient charge. The battery will be able to keep a charge properly after repeatedly discharging and charging several times.
- If you store the unit for a long time, charge the battery once every half year to prevent over-discharge.
- If the length of time you can use the unit became extremely short, the rechargeable battery should be replaced with a new one. please contact a service center.

### Note on static electricity

- Static electricity accumulated in the body may cause mild tingling in your ears. To minimize the effect, wear clothes made from natural materials.

### If the unit does not operate properly

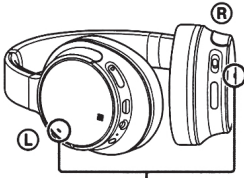
- Reset the unit. Press the and NC buttons simultaneously while charging. The unit will be reset. Pairing information is not deleted.



- If the problem persists even after the resetting operation above, initialize the unit as follows. Disconnect the micro-USB cable from the micro-USB port, turn off the unit, then hold down the and buttons simultaneously for more than 7 seconds. The indicator (blue) flashes 4 times, and the unit is reset to the factory settings. All pairing information is deleted.
- After the unit is initialized, it may not connect to your iPhone or computer. In this case, delete the pairing information of the unit from the iPhone or computer, and then pair them again.

### What is noise canceling?

- The noise canceling circuit actually senses outside noise with built-in microphones and sends an equal-but-opposite canceling signal to the unit.
  - The noise canceling effect may not be pronounced in a very quiet environment, or some noise may be heard.
  - The noise canceling effect may vary depending on how you wear the unit.
  - The noise canceling function works for noise in the low frequency band primarily. Although noise is reduced, it is not canceled completely.
  - When you use the unit in a train or a car, noise may occur depending on street conditions.
  - Mobile phones may cause interference and noise. Should this occur, locate the unit further away from the mobile phone.
  - Do not cover the microphones of the headset (Microphones) with your hands. The noise canceling function may not work properly.



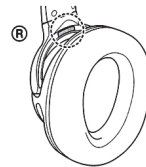
### On wearing the unit Microphones

- Because the headphones are of a high density enclosure, forcing them against your ears may result in eardrum damage. Pressing the headphones against your ears may produce a diaphragm click sound. This is not a malfunction.

### Others

- When you use the unit as wired headphones, use the supplied headphone cable only. Make sure that the headphone cable is firmly inserted.
- Do not place this unit in a place exposed to humidity, dust, soot or steam, or in a car or place subject to direct sunlight.
- Using the Bluetooth device may not function on mobile phones, depending on radio wave conditions and location where the equipment is being used.
- High volume may affect your hearing.
- For traffic safety, do not use while driving or cycling.
- Do not use the unit in places where it would be dangerous if you are unable to hear ambient sound, such as at railroad crossings, train station platforms, and construction sites.
- Do not put weight or pressure on this unit as it may cause the unit to deform during long storage.
- Do not subject the unit to excessive shock.
- Clean the unit with a soft dry cloth.
- Do not expose the unit to water. The unit is not waterproof. Remember to follow the precautions below.
  - Be careful not to drop the unit into a sink or other container filled with water.
  - Do not use the unit in humid locations or bad weather, such as in the rain or snow.
  - Do not get the unit wet. If you touch the unit with wet hands, or put the unit in a damp article of clothing, the unit may get wet and this may cause a malfunction of the unit.
- If you experience discomfort after using the unit, stop using the unit immediately.
- The earpads may deteriorate due to long term storage or use.
- If you have any questions or problems concerning this unit that are not covered in this manual, please contact a service center.

### Location of the serial number label



## Compatible iPhone/iPod models

You can use the unit with only the following models. Update your iPhone or iPod to the latest software before use.

- iPhone 7 Plus
- iPhone 7
- iPhone SE
- iPhone 6s Plus
- iPhone 6s
- iPhone 6 Plus
- iPhone 6
- iPhone 5s
- iPhone 5c
- iPhone 5
- iPod touch (6th generation) (As of December 2017)

## Specifications

### General

**Communication system:** Bluetooth Specification version 4.1  
**Output:** Bluetooth Specification Power Class 2

**Maximum communication range:** Line of sight approx. 10 m (30 ft)<sup>1)</sup>

**Frequency band:** 2.4 GHz band (2.4000 GHz - 2.4835 GHz)

#### Compatible Bluetooth profiles<sup>2)</sup>:

- A2DP (Advanced Audio Distribution Profile)
- AVRCP (Audio Video Remote Control Profile)
- HFP (Hands-free Profile)
- HSP (Headset Profile)

**Supported Codec<sup>3)</sup>:** SBC<sup>4)</sup>, AAC<sup>5)</sup>, aptX, aptX HD

**Supported content protection method:** SCMS-T

**Transmission range (A2DP):**

20 Hz - 20,000 Hz (Sampling frequency 44.1 kHz)

#### Included items:

- Wireless noise canceling stereo headset (1)
- Micro-USB cable (approx. 50 cm (19 3/4 in.)) (1)
- Headphone cable (approx. 1.2 m (47 1/4 in.)) (1)

- <sup>1)</sup> The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, reception sensitivity, antenna's performance, operating system, software application, etc.
- <sup>2)</sup> Bluetooth standard profiles indicate the purpose of Bluetooth communications between devices.
- <sup>3)</sup> Codec: Audio signal compression and conversion format
- <sup>4)</sup> Subband Codec
- <sup>5)</sup> Advanced Audio Coding

## Wireless noise canceling stereo headset

### Power source:

- DC 3.65 V: Built-in lithium-ion rechargeable battery
- DC 5 V: When charged using USB

**Mass:** Approx. 240 g (8.47 oz)

**Operating temperature:** 0 °C to 40 °C (32 °F to 104 °F)

### Usage hours:

- When connecting via the Bluetooth device
  - Music playback time:
    - Max. 35 hours (NC ON), Max. 40 hours (NC OFF)
  - Communication time:
    - Max. 35 hours (NC ON), Max. 40 hours (NC OFF)
  - Standby time:
    - Max. 35 hours (NC ON), Max. 200 hours (NC OFF)
- When connecting via the headphone cable with NC ON:
  - Max. 50 hours
- Note: Usage hours may be shorter depending on the Codec and the conditions of use.

### Charging time:

- Approx. 7 hours (About 60 minutes of music playback is possible after 10 minutes charging.)
- Note: Charging and usage hours may be different depending on the conditions of use.

**Charging temperature:** 5 °C to 35 °C (41 °F to 95 °F)

### Receiver

**Type:** Closed, Dynamic

**Driver unit:** 40 mm

### Frequency response:

7 Hz - 20,000 Hz (JEITA) (when connecting via the headphone cable with the unit turned on)

### Impedance:

22 Ω (1 kHz) (when connecting via the headphone cable with the unit turned on)  
48 Ω (1 kHz) (when connecting via the headphone cable with the unit turned off)

### Sensitivity:

97 dB/mW (when connecting via the headphone cable with the unit turned on)  
98 dB/mW (when connecting via the headphone cable with the unit turned off)

### Microphone

**Type:** Electret condenser

**Directivity:** Omni directional

**Effective frequency range:** 50 Hz - 8,000 Hz

## System requirements for battery charge using USB

### USB AC adaptor

A commercially available USB AC adaptor capable of feeding in more than 0.5 A (500 mA)

### Personal Computer

(As of December 2017)

Personal Computer with pre-installed with any of the following operating systems and USB port:

### Operating Systems

(when using Windows)

Windows® 10 Home / Windows® 10 Pro

Windows® 8.1 / Windows® 8.1 Pro

Windows® 8 / Windows® 8 Pro

Windows® 7

Home Basic / Home Premium / Professional / Ultimate

(when using Mac)

Mac OS X (version 10.9 or later)

Design and specifications are subject to change without notice.



## REFURBISHED PRODUCT LIMITED THIRTY DAY WARRANTY

The **Refurbished Product Service Center** offers the following WARRANTY to the ORIGINAL purchaser of a product which we have refurbished.

This product that has been refurbished is warranted against any electronic or mechanical defects for a period of THIRTY DAYS from the date of the original purchase by the consumer. Since this unit was sold as a refurbished item, the warranty does not apply to any cosmetic appearance items such as scratches. Should a defect occur, the **Refurbished Product Service Center** will repair or, at its option, replace defective unit/parts with new or rebuilt materials without charge for either parts or labor. Replacement unit/parts will be warranted for the remaining portion of the original warranty period.

This warranty does not cover installation or damage from accident, misuse, abuse, improper wiring, incorrect voltage, operating the unit against the instructions in the owner's manual or any product which has been opened, altered, or tampered with.

This warranty does not cover costs for removal and or installation of the unit for repair. Under no circumstances shall the service center be liable for any special, incidental or consequential damages or for any other expenses incurred by reason of use or sale of this product. This warranty is in lieu of any other warranties expressed or implied warranty of merchantability of fitness for particular use or otherwise.

This warranty gives the consumer specific legal rights and they may also have other rights which vary from State to State. Some States do not follow the exclusion or limitation of incidental or consequential damages, hence the above exclusion and limitations may not apply.

**Refurbished Product Service Center**  
13225 Marquardt Avenue Santa Fe Springs, CA 90670

## WARRANTY REPAIR INFORMATION


If you need service on your unit during the 30 day warranty period; please go to [www.ConsumerServiceRefurbish.com](http://www.ConsumerServiceRefurbish.com) or call the Refurbished Product Service Center at 562-946-3531 to obtain the required claim number. Once you obtain your claim number, pack the unit properly (the original carton is ideal for this purpose) along with a copy of your purchase receipt. Send the unit freight prepaid and insured to:

**Refurbished Product Service Center,**  
**Att: Customer Service Department 13225 Marquardt Avenue Santa Fe Springs, CA 90670**


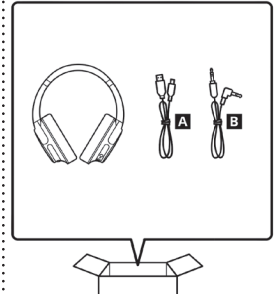


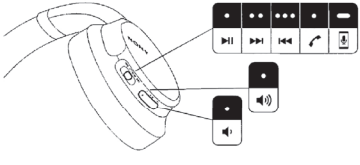
Your unit will be promptly exchanged and returned to you. We will refuse to accept delivery of the returned unit unless the assigned claim number appears on the outside of the shipping carton.

**Owner's Information**  
(Keep for your permanent records)

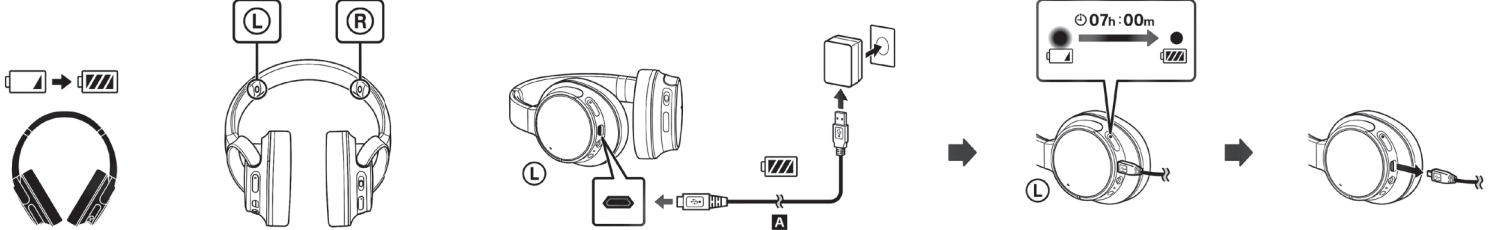
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PHONE: \_\_\_\_\_ E-MAIL: \_\_\_\_\_  
MODEL: \_\_\_\_\_ SERIAL NO.: \_\_\_\_\_



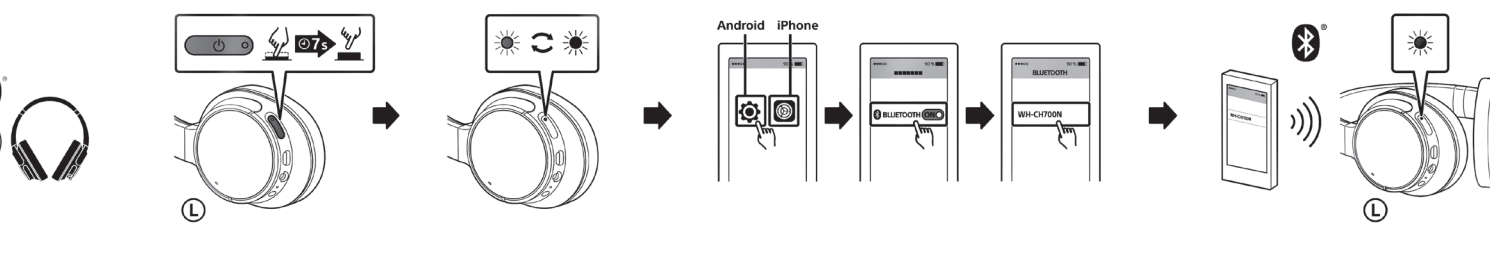
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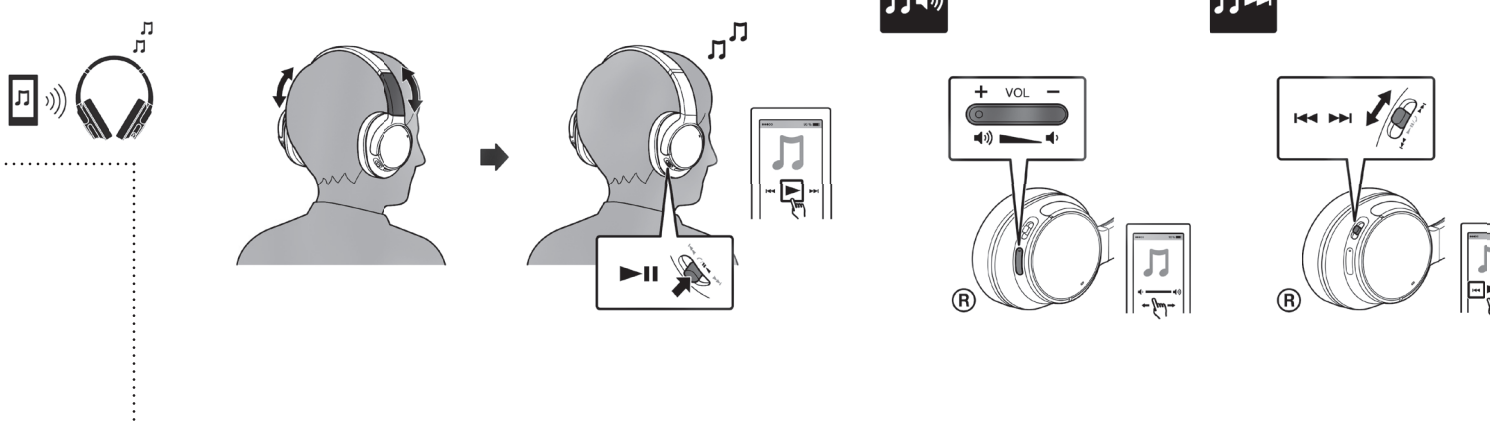
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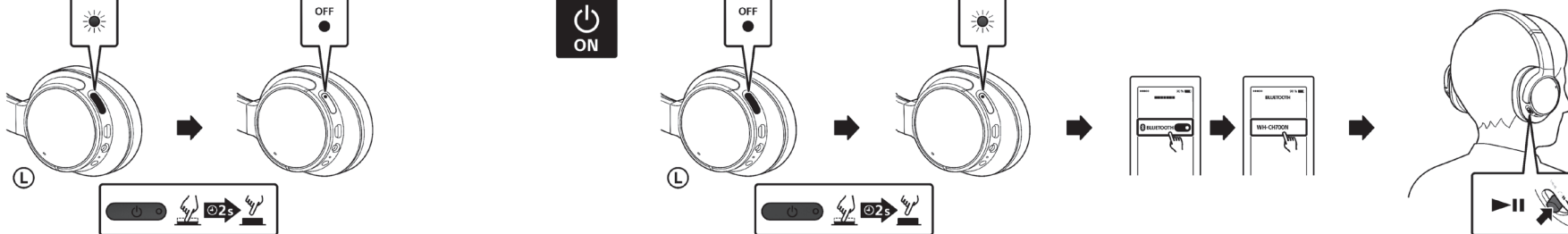
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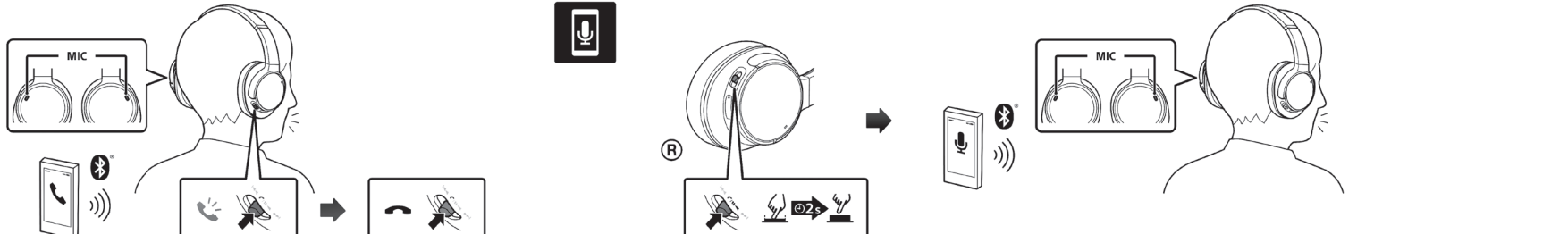
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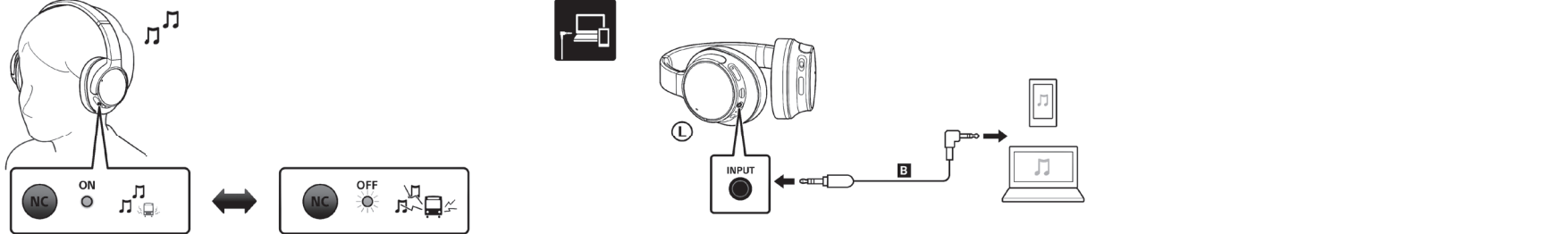






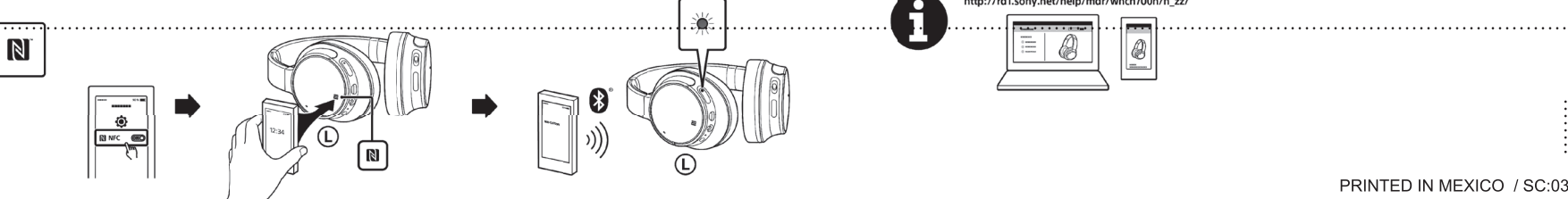












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