

Cassette Player

Operating Instructions

イマホサコム
サウンド



WALKMAN
WM-EX20

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Sony online http://www.world.sony.com/

WARNING

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

トロア

ヤー、Fセイ、□オーハ、□イカホイロケタサ。Mスミ
、ナイマ・サセ、□オビオウホイロシ -

□□

ネユタウエタロア相馬、
アキラ、一シタヌヌマキチク、チヌタサコケタフウ
スタア。リ。カドヌマチ、カガハスティサ。

A

European models
シレウセキ、タキギ、オイズ
タキギ、オイズ

①

Other models
イモセキ、タキギ、オイズ
タキギ、オイズ

B

UK, Australian, and Hong Kong model
ユハ、N'DW-M1サウンド
ソウカ、サウカオイズ、タキギ、オイズ

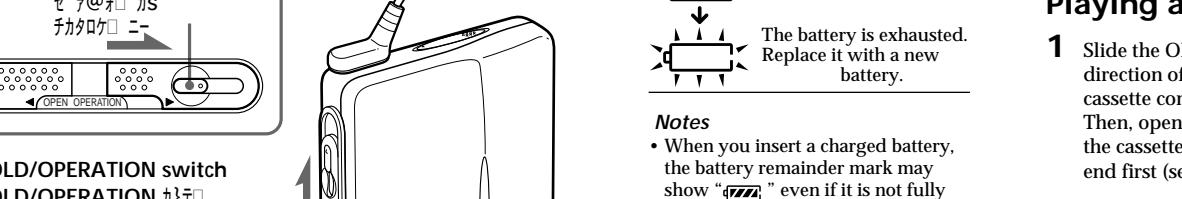
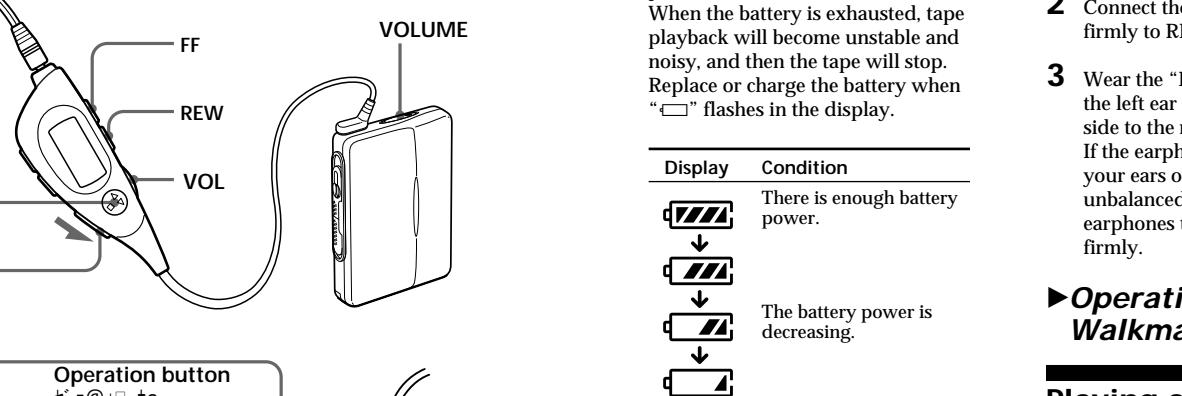
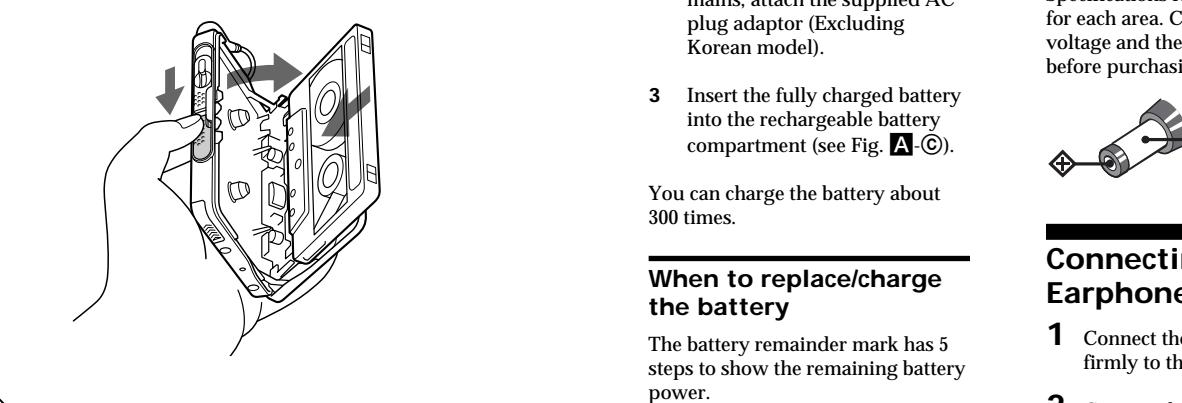
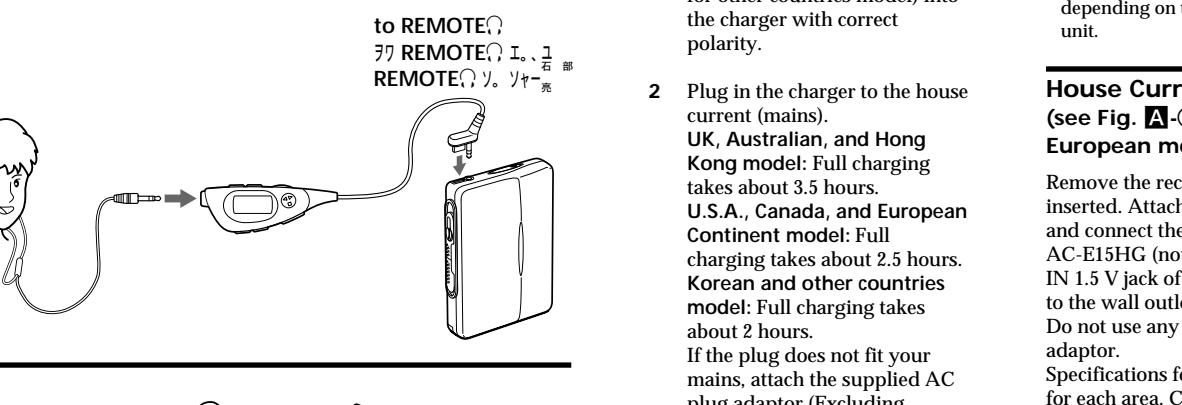
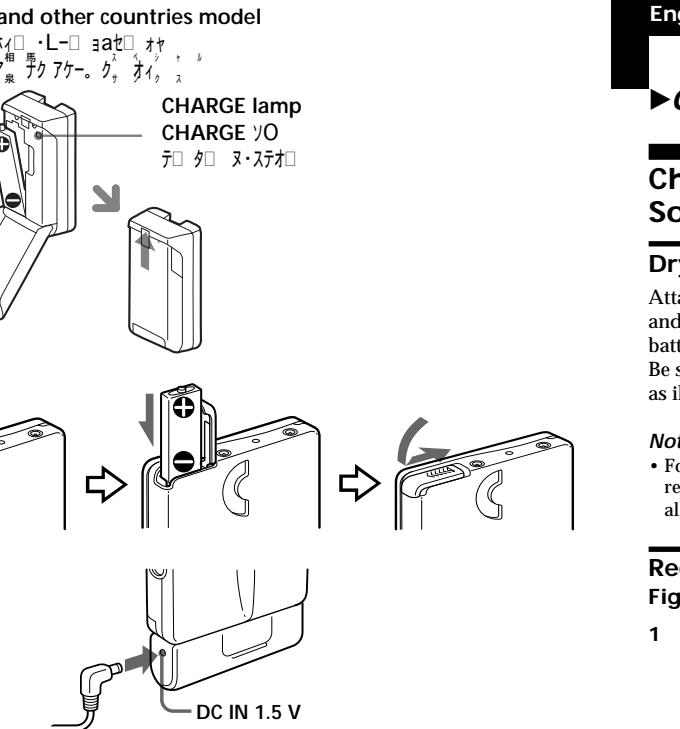
U.S.A., Canada, and European Continent model
コム、N'J-SXサウンド
ケタケ、タウケ、タキギ、オイズ、タキギ、オイズ

C

Operation button
ゼタオカニ
チカタクニ
OPEN OPERATION

HOLD/OPERATION switch
HOLD/OPERATION カテ
HOLD/OPERATION スタット

Notes
• When you insert a charged battery, the battery remainder mark may show [■] even if it is not fully charged. But the actual battery life is shorter.



Getting Started

Choosing a Power Source

Dry Battery (see Fig. A-④)

Attach the supplied battery case, and then insert one R6 (size AA) battery with correct polarity. Be sure to insert it from the **L** side as illustrated.

Note
• For maximum performance we recommend that you use a Sony alkaline battery.

Rechargeable Battery (see Fig. A-⑤)

1 Insert the supplied rechargeable battery (NC-6WM for U.S.A., Canada, European, Australian, and Hong Kong model/NH-14WM for other countries model) into the charger with correct polarity.

2 Plug in the charger to the house current (mains). UK, Australian, and Hong Kong model: Full charging takes about 3.5 hours. U.S.A., Canada, and European Continent model: Full charging takes about 2.5 hours. Korean and other countries model: Full charging takes about 2 hours.

If the plug does not fit your mains, attach the supplied AC plug adaptor (excluding Korean model).

3 Insert the fully charged battery into the rechargeable battery compartment (see Fig. A-⑥).

You can charge the battery about 300 times.

When to replace/charge the battery

The battery remainder mark has 5 steps to show the remaining battery power. When the battery is exhausted, tape playback will become unstable and noisy, and then the tape will stop. Replace or charge the battery when "□" flashes in the display.

Display Condition
There is enough battery power.
The battery power is decreasing.
The battery is exhausted. Replace it with a new battery.

Playing a Tape

1 Slide the OPEN switch in the direction of "□" to release the cassette compartment cover. Then, open it manually. Insert the cassette with the exposed end first (see Fig. C-①).

Notes
• When you insert a charged battery, the battery remainder mark may show [■] even if it is not fully charged. But the actual battery life is shorter.

• The battery remainder mark may temporarily show a lower level during fast forwarding or rewinding or use in extremely low temperatures.

Operation on the main unit (see Fig. C-③)

You can operate the tape with the operation button on the main unit. If the operation button is locked, slide HOLD/OPERATION switch in the direction of "▶" to release hold.

To Press the operation button (beeps in the headphones)

Play back Once

Play the other side For more than a second during playback (Switching to side A: one short beep/ Switching to side B: two short beeps)

Stop playback Once (One short beep)

Play the next track from the beginning (AMS*) Twice during playback (One short beep, then repeated sets of a short beep and a long beep)

Note
• The battery life may shorten depending on the operation of the unit.

Note on the cassette holder

• When opening the cassette holder, make sure the tape is stopped, then slide the OPEN switch.

If the cassette holder is opened when the tape is moving, the tape may loosen and be damaged.

Play the current track from the beginning (AMS*)

Three times during playback (One short beep, then repeated sets of two short beeps and a long beep)

Repeat the current track (Repeat Single Track function) Four times during playback (Repeated sets of a short beep, a long beep and a short beep when rewinding)

Play the other side from the beginning (Skip Reverse function) Twice during stop (One short beep, then repeated single beeps)

Stop playback □ once during playback

Fast forward* FF during stop ("FF" appears)

Rewind* REW during stop ("REW" appears)

Repeat the current track (Repeat Single Track function) □ twice during playback (To stop a single repeat, press □ once)

* Automatic Music Sensor

Note
• When you are not sure of the playback status, press the operation button once. The Walkman will return to normal playback (except when you have pressed the operation button during normal playback).

Note on side A/B detection

• This Walkman detects the side being played using the cavity on side A of the cassette. If there is no cavity on the cassette or the cavity is on side B, the detection will not be done correctly.

Note on AMS and Repeat Single Track

• The AMS and Repeat Single Track functions detect a blank of 4 seconds or longer between the tracks. If there is noise between the tracks, these functions may not recognize the blank and may not operate. Likewise, if there is a low-level segment within a track, these functions may recognize it as a blank space.

If □ on the remote control is pressed during fast forward or rewind, the Walkman switches to playback.

** Automatic Music Sensor

• When you insert a charged battery, the battery remainder mark may show [■] even if it is not fully charged. But the actual battery life is shorter.

Operating the Walkman

(turn over)

Operation button

HOLD

... □

CHARGE lamp

□

□

□

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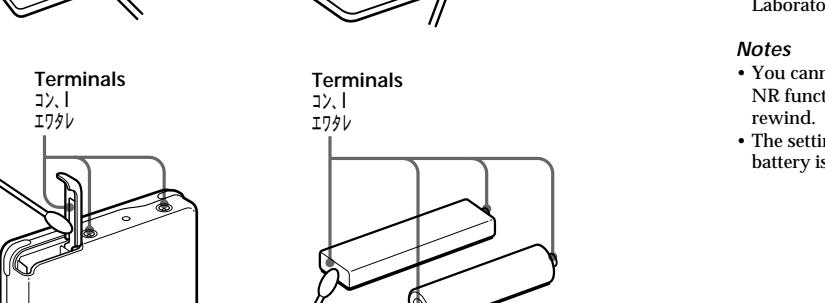
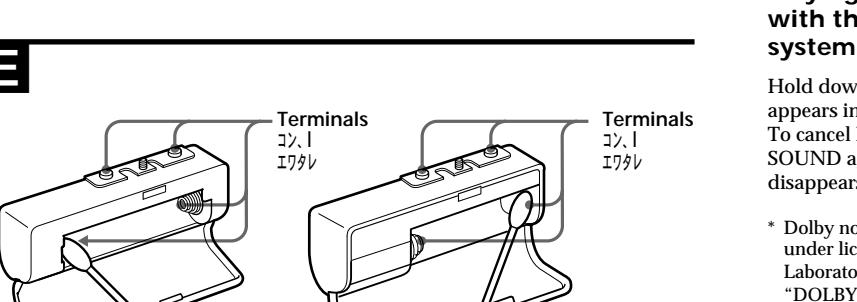
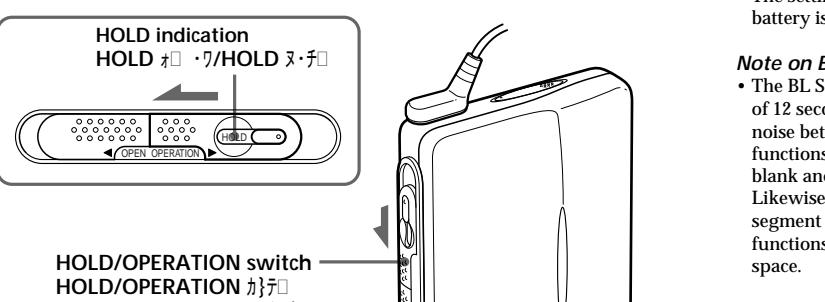
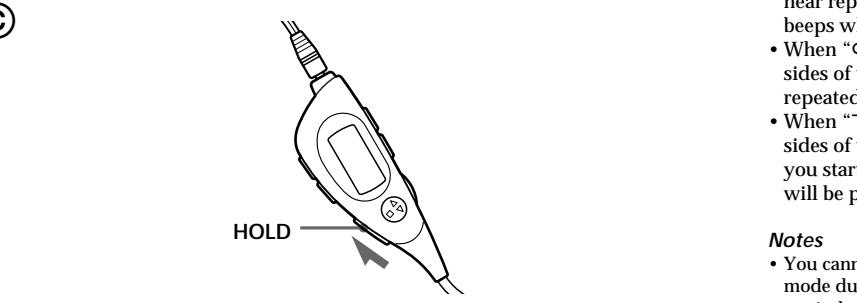
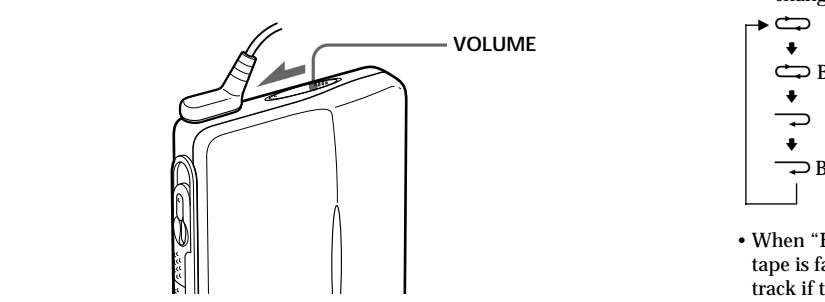
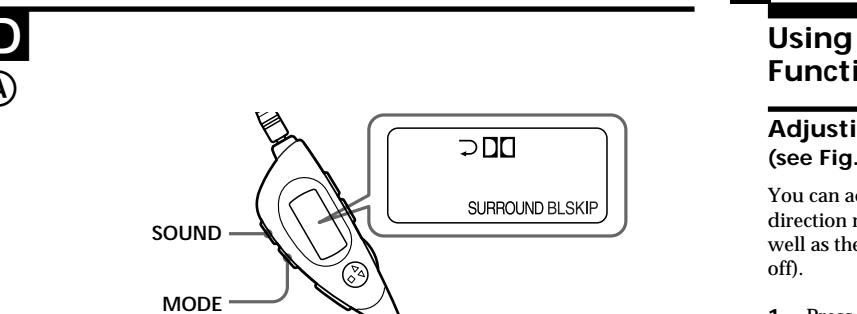
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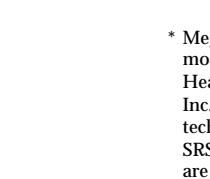


Using Other Functions

Adjusting playback mode (see Fig. D(A))

You can adjust the playback direction mode (\leftarrow or \rightarrow) as well as the BL SKIP mode (on or off).

- 1 Press MODE repeatedly. With each press the indications change as follows:



• When "BL SKIP" is displayed, the tape is fast-forwarded to the next track if there is a blank space of longer than 12 seconds. You will hear repeated sets of three short beeps when skipping a blank.

SRS Headphone technology is incorporated under license from SRS Labs, Inc.

Notes

- If the sound becomes distorted in the SURROUND mode, limit the volume on the main unit by setting the VOLUME switch on the main unit to NORM or AVLS MIN, or select a different sound mode.
- You cannot change the mode during fast forward or rewind.
- When " \leftarrow " is displayed, both sides of the tape is played once (if you start from side B, only side B will be played).

Notes

- You cannot adjust the playback mode during fast-forward or rewind.
- The setting is stored as long as the battery is not replaced.

Protecting Your Hearing — AVLS (Automatic Volume Limiter System) (see Fig. D(B))

- 1 Set the VOLUME switch on the main unit to AVLS MIN.

To cancel the AVLS function

Set the VOLUME switch on the main unit to NORM or MAX.

Locking the controls — HOLD function (see Fig. D(C))

Hold down SOUND until "—" appears in the display.

To cancel Dolby B NR, hold down SOUND again until "—" disappears.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol $\square\square$ are trademarks of Dolby Laboratories Licensing Corporation.

Notes

- You cannot turn on/off the Dolby B NR function during fast-forward or rewind.
- The setting is stored as long as the battery is not replaced.

On tapes longer than 90 minutes

We do not recommend the use of tapes longer than 90 minutes except for a long continuous playback. They are very thin and tend to be stretched easily.

Emphasizing Sound (see Fig. D(B))

1 Press SOUND repeatedly. With each press, the indications change as follows:

- SURROUND: Dynamic Surround Sound
- MB (Mega Bass): emphasizes bass sound (moderate effect)
- RV (Sound Revitalizer): emphasizes treble sound
- none: normal (no effect)

* Mega Surround is a new sound mode combining the SRS Headphone technology of SRS Labs, Inc., and the MEGA BASS technology of Sony Corporation. SRS Headphone and the (\bullet) symbol are trademarks of SRS Labs, Inc. in the United States and selected foreign countries.

SRS Headphone technology is incorporated under license from SRS Labs, Inc.

Notes

- If the sound becomes distorted in the SURROUND mode, limit the volume on the main unit by setting the VOLUME switch on the main unit to NORM or AVLS MIN, or select a different sound mode.
- You cannot change the mode during fast forward or rewind.
- When " \leftarrow " is displayed, both sides of the tape is played once (if you start from side B, only side B will be played).

Notes

- You cannot adjust the playback mode during fast-forward or rewind.
- The setting is stored as long as the battery is not replaced.

Note on BL SKIP

The BL SKIP function detects a blank of 12 seconds or longer. If there is noise between the tracks, these functions may not recognize the blank and may not operate.

Likewise, if there is a low-level segment within a track, these functions may recognize it as a blank space.

Playing a tape recorded with the Dolby* B NR system

Hold down SOUND until "—" appears in the display.

To cancel Dolby B NR, hold down SOUND again until "—" disappears.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol $\square\square$ are trademarks of Dolby Laboratories Licensing Corporation.

Notes

- You cannot turn on/off the Dolby B NR function during fast-forward or rewind.
- The setting is stored as long as the battery is not replaced.

On tapes longer than 90 minutes

We do not recommend the use of tapes longer than 90 minutes except for a long continuous playback. They are very thin and tend to be stretched easily.

Additional Information

Precautions

On rechargeable battery and charger

• Remove the charger unit from the wall outlet as soon as possible after the rechargeable battery has been charged. Overcharging may damage the rechargeable battery.

• The battery charge and the rechargeable battery may become warm during charging, but this is not a problem.

• Do not tear off the film on the rechargeable battery.

• Use only the supplied battery charger to charge the supplied rechargeable battery.

• Be sure not to short-circuit the battery. When you carry it with you, use the supplied carrying case. If you are not using the case, do not carry the battery with other metallic objects such as keys rings in your pocket.

• If the rechargeable battery is new or has not been used for a long time, it may not be charged completely until you use it several times.

• The nameplate indicating the operating voltage, power consumption, etc. is located on the bottom exterior of the battery

• If the sound becomes distorted in the SURROUND mode, limit the volume on the main unit by setting the VOLUME switch on the main unit to NORM or AVLS MIN, or select a different sound mode.

• You cannot change the mode during fast forward or rewind.

• The setting is stored as long as the battery is not replaced.

On batteries

- Do not charge a dry battery.
- Do not carry the dry or rechargeable batteries with coins or other metallic objects. It can generate heat if the positive and negative terminals of the batteries are accidentally contacted by a metallic object.

• When you do not use the Walkman for a long time, remove the battery to avoid any damage caused by battery leakage and subsequent corrosion.

On handling

• Do not drop the unit or give a shock to the unit, or it may cause a malfunction.

• Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or sand, moisture, rain, mechanical shock, or in a car with its windows closed.

• The LCD display may become hard to see or slow down when using the unit at high temperatures (above 40°C/104°F) or at low temperatures (below 0°C/32°F). At room temperature, the display will return to its normal operating condition.

• If the unit has not been used for a long period of time, set it in the playback mode to warm it up for a few minutes before you start using again.

Design and specifications subject to change without notice.

On the remote control

Use the supplied remote control only with this unit.

Tape operation is not possible.

• Insert a cassette tape.

The volume cannot be turned up.

• If AVLS is on, turn it off by setting the VOLUME switch on the main unit to NORM or MAX.

The tape fast forwards by itself during playback.

• BL SKIP is activated. Deactivate BL SKIP.

The sound contains noise.

• Use the unit away from radio wave-emitting devices such as cellular phones.

The display and the operations are not normal.

• Remove the power sources for 15 seconds or more, and then set them again.

Specifications

Tape section

Frequency response (Dolby NR off)

Playback: 30-18,000 Hz

Output

Headphones (REMOTE \ominus , jack)

Load impedance 8-300 ohms

General

Power requirements

1.5 V

One rechargeable battery or one R6 (size AA) battery

Dimensions (w/h/d)

Approx. 78.7 x 108.6 x 18.7 mm (3 1/4 x 4 1/4 x 7/8 inches), incl. projecting parts and controls

Mass

Approx. 180 g (6.4 oz.)

240 g (8.5 oz.) incl. rechargeable battery and cassette

Supplied accessories

Battery case (1)

Stereo earphones with remote control (1)

Battery charger (1)

Rechargeable battery

Supplied accessories

Battery case (1)

Stereo earphones with remote control (1)

Battery charger (1)

Rechargeable battery

BL SKIP

BL SKIP, AMS, or Repeat

Surround

AVLS

AVLS

Notes

Caring for others

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

Maintenance

To clean the tape head and path

Use the cleaning cassette CHK-1W (not supplied) for every 10 hours of use.

Note

• Use only the recommended cleaning cassette.

To clean the exterior

Use a soft cloth slightly moistened in water. Do not use alcohol, benzine or thinner.

Supplied accessories

Battery case (1)

Stereo earphones with remote control (1)

Battery charger (1)

Rechargeable battery

BL SKIP

BL SKIP, AMS, or Repeat

Surround

AVLS

AVLS

Notes

Care for others

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

Troubleshooting

The BL SKIP, AMS, or the Repeat Single Track function does not operate properly.

• Charge the rechargeable battery or replace the battery with a new Sony alkaline battery.

You hear error beeps and you cannot operate the unit.

• Charge the rechargeable battery or replace the battery with a new Sony alkaline battery.

The unit does not operate at all.

• Charge the rechargeable battery or replace the battery with a new Sony alkaline battery.

HOLD is activated. Deactivate HOLD.

• The setting is stored as long as the battery is not replaced.

Design and specifications subject to change without notice.

Additional Information

On the remote control

Use the supplied remote control only with this unit.

The volume cannot be turned up.

• If AVLS is on, turn it off by setting the VOLUME switch on the main unit to NORM or MAX.