SONY

3-241-559-**81** (1)

Microcassette™-Corder

Operating Instructions

操作説明書（在背面）

M-650V/560V/455/450

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About This Manual

The instructions in this manual are for 4 models. The M-650V is the model used for illustration purposes.
Their differences are shown in the table below:

	M-650V	M-560V	M-455/M-450
Tape counter	○	○	—
MIC jack	○	—	—
REC lamp	○	—	—
BATT/ lamp	○	—	—
REC/BATT lamp	—	○	—
BATT lamp	—	—	○
VOR	○	○	—
FAST PB	○	—	—
Handstrap	○	—	—

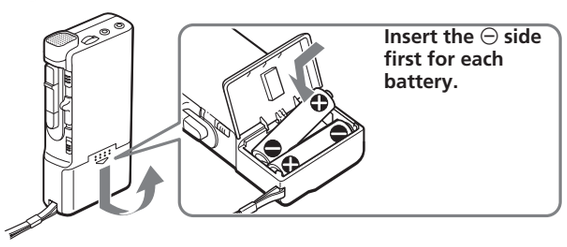
○: provided or supplied
—: not provided or not supplied

There is no difference between M-455 and M-450 except for the supplied accessories.
For information about the supplied accessories, see "Specifications" of this manual.

Preparing Power Sources

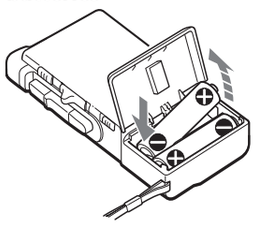
Choose one of the following power sources.

Dry Batteries



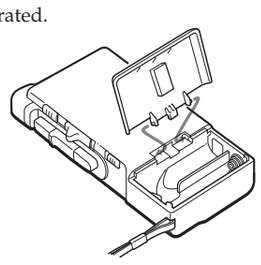
Make sure that nothing is connected to the DC IN 3V jack.
1 Open the battery compartment lid.
2 Insert two R6 (size AA) batteries with correct polarity and close the lid.

To take out the batteries



If the battery compartment lid is accidentally detached

Attach it as illustrated.



When to replace the batteries

For M-560V/455/450
Replace the batteries with new ones when the REC/BATT (M-560V) or BATT (M-455/450) lamp dims.

For M-650V
Replace the batteries with new ones when the BATT lamps go off and the lamp flashes.

Notes

- The unit will play back normally for a while, even after the lamp flashes. However, replace the batteries as soon as you can. If you do not, the playback cannot be made with normal sound, noise may be recorded and the recorded sound will not be loud enough (M-650V only).
- In the following cases you do not need to replace the batteries:
  – if the REC/BATT or BATT lamp flashes with the playback sound when you turn up the volume.
  – if the lamp lights momentarily when the tape starts running or at the end of the tape (M-650V only).
  – if the lamp flashes during FF (CUE) or REW (REVIEW) (M-650V only).

Battery life (Approx. hours) ***(JEITA*)***

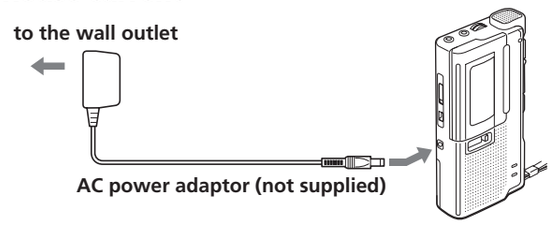
Batteries	Recording	
Sony manganese R6P (SR)	8 (M-650V only)	10 (M-560V/455/450 only)
Sony alkaline LR6 (SG)**	26 (M-650V only)	30 (M-560V/455/450 only)

* Measured valued by the standard of JEITA (Japan Electronics and Information Technology Industries Association) (Using a Sony Microcassette)
**When using a Sony LR6 (SG) "STAMINA" alkaline dry batteries (produced in Japan)

Note

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

House current



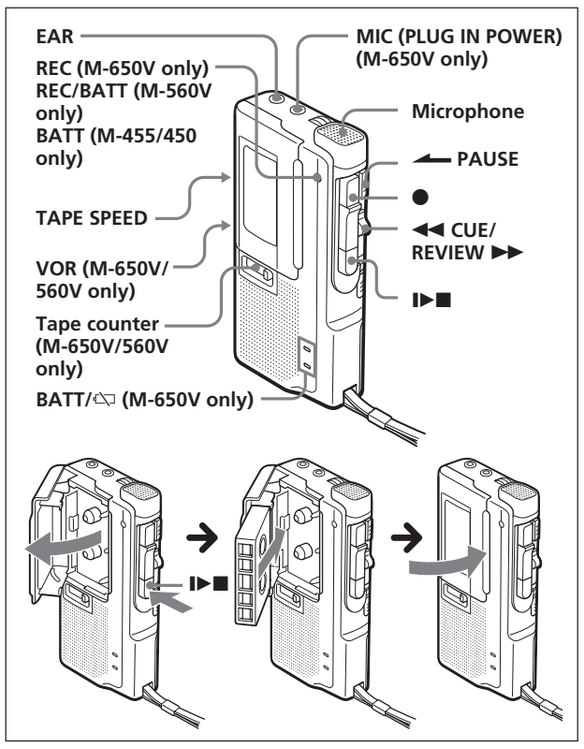
Connect the AC power adaptor to DC IN 3V and to a wall outlet.
Use the AC-E30HG AC power adaptor (not supplied.)

Note

Specifications for AC-E30HG vary for each area. Check your local voltage and the shape of plug before purchasing.

Recording

Make sure that nothing is connected to MIC (M-650V only).



1 Press the reset button of the tape counter (M-650V/560V only).
2 Press I▶■ and insert a standard microcassette with the side to start recording facing the lid.
3 Select the desired tape speed.
2.4 cm for optimum sound (recommended for normal use): A 30-minute recording can be made using both sides of the MC-30 microcassette.
1.2 cm for longer recording time: A 60-minute recording can be made using both sides of the MC-30 microcassette.
4 Set VOR to H, L or OFF (M-650V/560V only).
If you set VOR to H or L, the unit automatically starts recording the sound and pauses when there is no sound (you can save tapes and batteries).
H : To record at meeting or in a quiet and/or spacious place.
L : To record for dictation or in a noisy place.
When the sound is not loud enough, set it to OFF, or the unit may not start recording.
5 Press ●.
◀ is pressed simultaneously and recording starts. While the tape runs, the REC lamp or REC/BATT lamp lights and flashes depending on the strength of the sound (M-650V/560V only).
Recording level is fixed.

To	Press or slide
Stop recording	I▶■
Start recording during playback	● during playback (the unit becomes in the recording mode)
Review the portion just recorded	Push up ◀◀CUE/▶▶REVIEW toward ▶▶REVIEW during the recording. Release the button at the point to start playback.
Pause recording	Slide PAUSE in the direction of the arrow. The REC/BATT (M-560V), BATT (M-455/450) or REC (M-650V) lamp goes off.
Take out a cassette	I▶■

Note

Select the 2.4 cm tape speed for recording, if you play back the recorded tape with another unit. Otherwise, the sound quality may be changed.

Notes on VOR (Voice Operated Recording) (M-650V/560V only)

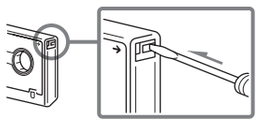
- The VOR system depends on the environmental conditions. If you cannot get the desired results, set VOR to OFF.
- When you use the unit in a noisy place, it will stay in the recording mode. If the sound is too soft, on the contrary, the unit will not start recording. Set VOR to H (high) or L (low) depending on the conditions.

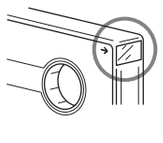
To monitor the sound

Connect an earphone (not supplied) to EAR jack. The monitor volume cannot be adjusted by VOL.

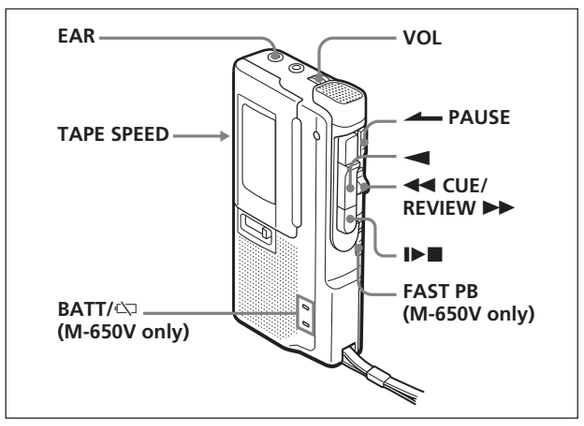
To prevent a cassette from being accidentally recorded over

Break out and remove the cassette tabs. To reuse the cassette for recording, cover the tab hole with adhesive tape.





Playing a Tape



1 Insert a cassette with the side to start playing facing the lid.
2 Select the tape speed to the same speed as that used for recording.
3 Press ◀.
4 Turn VOL to adjust the volume.

If you plug in headphones (not supplied) to the EAR jack, you will get monaural output from both left and right channels.

To	Press or slide
Stop playback/stop fast forward or rewind*	I▶■
Pause playback	Slide PAUSE in the direction of the arrow. The REC/BATT (M-560V), BATT (M-455/450) or REC (M-650V) lamp goes off.
Fast forward	Slide ◀◀CUE/▶▶REVIEW toward ◀◀CUE during stop.
Rewind	Slide ◀◀CUE/▶▶REVIEW toward ▶▶REVIEW during stop.
Search forward during playback (CUE)	Keep ◀◀CUE/▶▶REVIEW pushed down toward ◀◀CUE during playback and release it at the point you want.
Search backward during playback (REVIEW)	Keep ◀◀CUE/▶▶REVIEW pushed up toward ▶▶REVIEW during playback and release it at the point you want.

* If you leave the unit after the tape has been wound or rewound, the batteries will be consumed rapidly. Be sure to depress I▶■.

Note

If the tape is completely wound or rewound while searching forward/backward during playback (CUE/REVIEW), the ◀◀CUE/▶▶REVIEW switch may not return to the center position when you release the switch. In this case, push back the switch to the center to start playback.

To increase the playback speed (M-650V only)

Slide the FAST PB switch in the direction of the arrow. The playback speed will be increased.
To return to the original speed, slide the FAST PB switch to the original position.

At the end of the tape

In the recording or playback mode, the tape stops at the end of the tape and the locked buttons will be released automatically (Automatic shut-off mechanism).
After fast forward or rewind, be sure to set ◀◀CUE/▶▶REVIEW back to the center.

Recording/Playback with the Connected Equipment (M-650V only)

Recording with an External Microphone

Connect a microphone to the MIC jack. Use a microphone of low impedance (less than 3 kΩ) such as ECM-T6 (not supplied).
When using a plug-in-power system microphone, the power to the microphone is supplied from this unit.

Note

When recording with an external microphone, the VOR system may not work properly because of the difference in sensitivity.

Recording from another tape recorder

Connect another tape recorder to the MIC jack using the RK-G64HG connecting cord (not supplied).
Set this unit to the recording mode and another tape recorder to the playback mode. In this case set VOR to OFF.

Precautions

On power

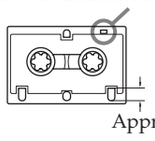
- Operate the unit only on 3 V DC.
  For AC operation, use the AC adaptor recommended for the unit. Do not use any other type. For battery operation, use two R6 (size AA) batteries.

On the unit

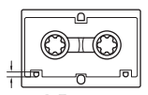
- Use only the MICROCASSETTE™ (standard microcassettes) with this unit. Non-standard cassettes cannot be used because their "L" dimension (see illustration) is different.

Standard
Only standard microcassettes have a small indention of side A.

Non-standard



Approx. 5 mm



Approx. 2.5 mm

- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Should any solid object or liquid fall into the unit, remove the batteries or disconnect the AC power adaptor, and have the unit checked by qualified personnel before operating it any further.
- Keep personal credit cards using magnetic coding or spring-wound watches etc. away from the unit to prevent possible damage from the magnet used for the speaker.
- When you do not use the unit for long, remove the batteries to avoid damage caused by battery leakage and subsequent corrosion.
- If the unit has not been used for long, set it in the playback mode and warm it up for a few minutes before inserting a cassette.

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

Troubleshooting

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

A cassette cannot be inserted.
→ The cassette is being inserted in the wrong way.
→ ◀ has been already pressed.

The unit does not operate.
→ The batteries have been inserted with incorrect polarity.
→ The batteries are weak. Replace both batteries with new ones.
→ PAUSE is slid in the direction of the arrow.
→ The AC power adaptor is connected to the unit only and you are going to use the unit on batteries.

Recording cannot be made.
→ There is no cassette in the cassette compartment.
→ The tab on the tape has been removed. To reuse the tape for recording, cover the tab hole with adhesive tape.

Recording is interrupted.
→ The VOR switch (M-650V/560V only) is set to H or L. When you do not use VOR, set it to OFF.

During CUE/REVIEW the tape stops or does not run.
You cannot fast-forward or rewind.
→ The batteries are weak. Replace both batteries with new ones.

Recording cannot be erased completely.
→ The head is contaminated. See "Maintenance".

Playback cannnot be made.
→ The tape has reached the end. Rewind the tape.

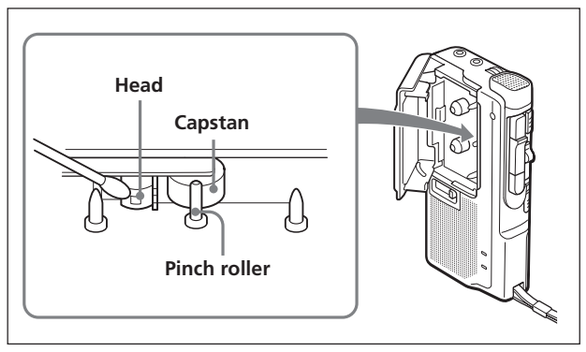
No sound comes from the speaker.
→ The earphone is plugged in.
→ The volume is turned down completely.

The sound drops out or comes with excessive noise.
→ The volume is turned down completely.
→ The batteries are weak. Replace both batteries with new ones.
→ The head is contaminated. See "Maintenance".
→ Direct placement of the cassette tape on the speaker resulted in magnetization and deteriorated tonal quality.
→ Use the unit away from radiowave-emitting devices such as cellular phones.

Tape speed is too fast or too slow in the playback mode.
→ Improper setting of the TAPE SPEED switch. Set it to the same speed as that used for recording.
→ The batteries are weak. Replace both batteries with new ones.

Tape speed is faster than the normal playback speed.
→ The FAST PB switch (M-650V only) is slid in the direction of the arrow.

Maintenance



To clean the tape head and path

Press ◀ and wipe the head, capstan and the pinch roller with a cotton swab, moistened with alcohol every 10 hours of use.

To clean the exterior

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

Specifications

Tape
MICROCASSETTE™ (normal position type)
Recording system
2-track 1-channel monaural
Speaker
Approx. 3.6 cm dia.
Tape speed
2.4 cm/s (15/16 ips), 1.2 cm/s (15/32 ips)
Frequency range
300 – 4 000 Hz (with TAPE SPEED switch at 2.4 cm/s)
Input (M-650V only)
Microphone input jack (minijack/PLUG IN POWER)
sensitivity 0.24 mV for 3 kΩ or lower impedance microphone
Output
Earphone jack (minijack) for 8 – 300 Ω earphone
Power output (at 10% harmonic distortion)
250 mW
Power requirements
3 V DC batteries R6 (size AA) × 2/External DC 3V power sources
Dimensions (w/h/d)
Approx. 62.2 × 119.1 × 25.4 mm incl. projecting parts and controls
Mass
M-650V: Approx. 115 g (main unit only)
M-560V: Approx. 113 g (main unit only)
M-455/450: Approx. 109 g (main unit only)
Supplied accessories
Microcassette tape MC-30 (1) (M-455 only)

Design and specifications are subject to change without notice.

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關於此說明書

本說明書說明4個型號。M-650V型號是用於圖示的。
4型號間的異同列如下表：

	M-650V	M-560V	M-455/M-450
走帶計數器	○	○	—
MIC（麥克風）插孔	○	—	—
REC（錄音）燈	○	—	—
BATT（電池）/꩜燈	○	—	—
REC/BATT（錄音／電池）燈	—	○	—
BATT（電池）燈	—	—	○
VOR(甚高頻全無線電信標)	○	○	—
FAST PB（快播放）	○	—	—
手帶	○	—	—

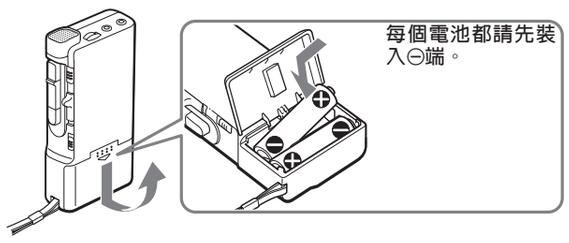
○：供應或附帶
—：不能供應或無附帶

M-455和M-450兩型號之間，除了隨機附件以外是沒什麼不同的。有關隨機附件的資訊，請參看本說明書的“規格”。

准備電源

操作時，有下列電源可供選用。

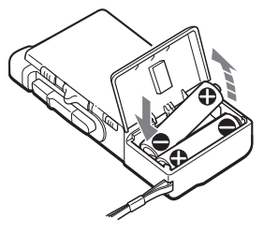
乾電池



要以乾電池操作時，DC IN 3V插孔里不可連接任何電線。

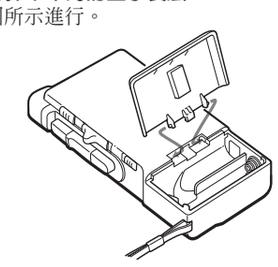
1 打開電池座蓋。
2 裝入兩個R6（AA，3號）電池，裝時須按照正確極性方向裝入，然後蓋上蓋子。

要取出電池時



電池座蓋不小心掉下來時的蓋子裝法

請按照插圖所示進行。



什麼時候需要交換電池

M-560V/455/450

當REC/BATT(M-560V)或BATT(M-455/450)燈顯得暗淡時，即請更換新電池。

M-650V

當BATT燈熄滅了，而꩜燈閃爍著時，即請更換新電池。

註

- 即使꩜燈起閃爍之後，機器仍可正常地播放一下，但是必須盡快更換電池。如果不換電池，您將不能獲得正常聲播放，所錄聲音可能參雜噪聲，聲音也可能會不夠響亮（M-650V爲限）。
- 如下狀況時，并不必更換電池：
  – 調大音量時，如果隨播放聲而REC/BATT或BATT燈起閃爍。
  – 當開始走帶或到達磁帶末端時：꩜燈亮了一下（M-650V爲限）。
  – FF(CUE)（快進繞提示）或REW(REVIEW)（重繞檢閱）操作中，如果꩜燈起閃爍（M-650V爲限）。

電池使用時間（大約時數） ***(JEITA*)***

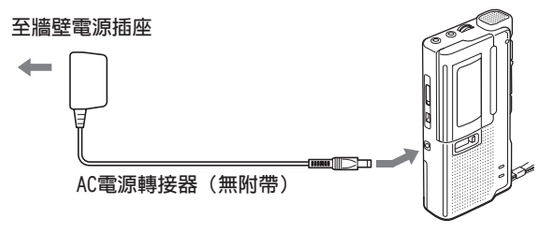
電池	錄音時間	
Sony錳電池R6P(SR)	8(M-650V爲限)	10(M-560V/455/450爲限)
Sony鹼性電池LR6(SG)**	26(M-650V爲限)	30(M-560V/455/450爲限)

* JEITA（Japan Electronics and Information Technology Industries Association）標準的測值（使用Sony微型磁帶）
** 使用Sony LR6(SG)“STAMINA”鹼性乾電池（日本製）時

註

電池使用時間可能因機器的操作情況而縮短。

家用電源



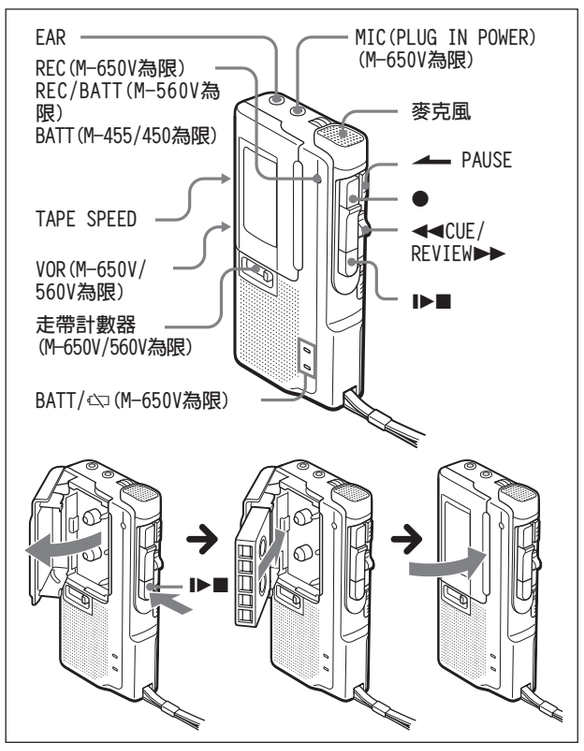
要使用家庭電源時，把AC交流電轉接器插到DC IN 3V插孔以及牆壁電源插座。使用AC-E30HG AC電源轉接器（無附帶）。

註

AC-E30HG的規格隨地區而異。選購前，請先查明當地的電壓和插頭的形狀。

錄音

錄音時，MIC插孔里不可連接任何電線（M-650V爲限）。



1 按走帶計數器的重設按鈕（M-650V/560V爲限）。
2 按I▶■鈕，插入一個標准微型磁帶，裝時須使要錄音之面對著磁帶座蓋。
3 選擇錄音帶速度。
   聲音音調音質最合適時的速度爲2.4cm（平常請以此速度播放）：使用一個MC-30微型磁帶的正反兩面，可進行30分鐘的錄音。
   要進行較長的錄音時的速度爲1.2cm：使用一個MC-30微型磁帶的正反兩面，可進行60分鐘的錄音。
4 把VOR開關設定在“H”，“L”或“OFF”（M-650V/560V爲限）。
   若把VOR開關設定在“H”或“L”，則錄音機將在有聲音時自動開始錄音，沒有聲音時自動暫停下來（可以節省磁帶及電池之消耗）。
   H：要在會議室或安靜的地方，及／或空間較大的地方錄音時。
   L：要錄下供聽寫用的聲音，或在吵雜的地方錄音時。
   要錄的聲音若不夠大，可把VOR開關設定於“OFF”，否則便無法令錄音機開始錄音。
5 按●。
   ◀即同時被按下而開始錄音。錄音帶一開始卷動，REC或REC/BATT指示燈即點亮并按照聲音強弱而閃爍（M-650V/560V爲限）。
   錄音電平是固定的。

要	請
停止錄音	按I▶■
在播放之中直接開始錄音	在播放之中按壓●（錄音機便進入錄音狀態）
查聽剛錄下的部分	在錄音之中，把◀◀CUE/▶▶REVIEW設定在“▶▶REVIEW”之處。在錄音帶轉到要收聽的地方時放開按鈕。
暫停錄音	把▬PAUSE開關往箭頭方向移動。REC/BATT(M-560V)，BATT(M-455/450)或REC(M-650V)燈熄滅。
取出錄音帶	按I▶■

註

要播放以其他錄音機錄音的磁帶時，把磁帶速度設定在2.4cm處。否則會影響播放音質。

關於VOR(Voice Operated Recording)開關的注意事項（M-650V/560V為限）

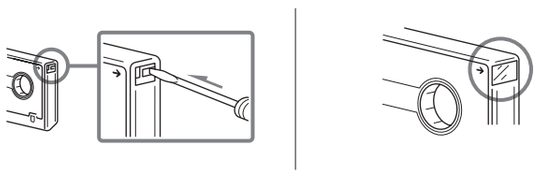
- VOR功能將因錄音環境而影響錄音效果。所以如果不能獲得理想的錄音，請把VOR開關設定在“OFF”。
- 在嘈雜的地方使用VOR功能時，錄音機將一直處於錄音狀態。如果聲音太柔弱，錄音機則將不會自動開始錄音。因此請按照錄音環境條件把VOR開關設定於H（高）或L（低）。

若要一面錄音一面監聽所錄聲音

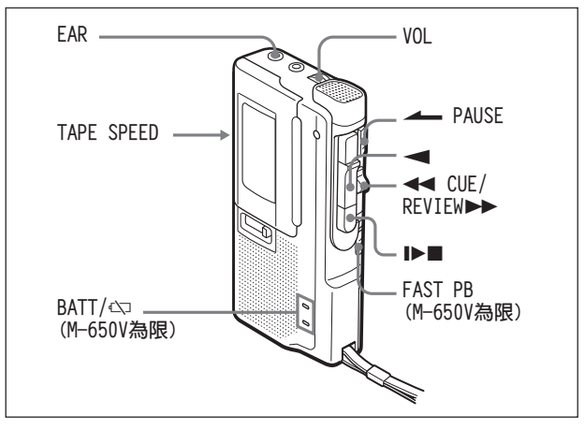
在EAR插孔連接耳機（無附帶）。監聽器的音量是不能用VOL調整的。

為防止所錄的地方因重錄而被誤消掉

拆掉錄音磁帶盒背的錄音保護小翼。要再以那盒磁帶錄音時，請在拆掉保護小翼的凹孔上，貼張膠帶就行。



播放



1 把要播放面對著磁帶座蓋，裝入錄音帶。
2 把播放速度調整在和錄音時一樣速度之處。
3 按◀。
4 旋轉VOL以調整音量。

如果把頭戴耳機（無附帶）接插到EAR插孔，則從左頻道及右頻道都將聽到單耳聲輸出。

要	請
停止播放／停止快轉或倒轉*	按I▶■
暫停播放	把▬PAUSE開關往箭頭方向移動。REC/BATT(M-560V)，BATT(M-455/450)或REC(M-650V) 燈熄滅。
快速前轉	在停止狀態下，把◀◀CUE/▶▶REVIEW開關往◀◀CUE方向移動。
快速倒轉	在停止狀態下，把◀◀CUE/▶▶REVIEW開關往▶▶REVIEW方向移動。
在播放中向前尋找某段落（CUE功能）	在播放中向下推◀◀CUE/▶▶REVIEW開關往◀◀CUE方向移動，直到找到所要尋找的地方才放開按鈕。
在播放中向後尋找某段落（REVIEW功能）	在播放中向上推◀◀CUE/▶▶REVIEW開關往▶▶REVIEW方向移動，直到找到所要尋找的地方才放開按鈕。

* 若在錄音帶走到盡頭，或被卷回起點以後離開錄音機，則電池將很快就用完，此時一定要按下I▶■才離開座位。

註

播放中，當往前／往後尋找時，如果磁帶完全繞完或重繞完了(CUE/REVIEW)，當您釋放◀◀CUE/▶▶REVIEW開關時，也可能不會返回中央位置的。此時，請把它推回中央位置以開始播放。

如何加快錄音帶速度（M-650V為限）

請把FAST PB開關往箭頭方向移動。播放速度將加快。
要恢復普通的放音速度時，把FAST PB開關移到原來的位置。

錄音帶卷到盡頭時

當在錄音或播放之中，若錄音帶走到終點，就自動停止下來，而被按住的鍵鈕也都自動跳上來（此即自動關機功能）。
作完快進繞或重繞之後，一定要把◀◀CUE/▶▶REVIEW按鈕轉回到中央部分。

從其他裝置錄音／用其他裝置播放（M-650V為限）

另連接麥克風錄音

連接麥克風到MIC插孔。請使用低阻抗（3kΩ以下）的麥克風，例如ECM-T6（無附帶）。若使用插入通電型的麥克風，麥克風的電源便由錄音機供給。

註

使用機外麥克風時，因爲各個麥克風的靈敏度不同，所以VOR功能也許不能正常工作。

從其他錄音機錄音

用RK-G64HG連接導線（無附帶）將另一磁帶錄音機連接到MIC插孔。
把本機設定在錄音狀態，并把另一架錄音機設定在播放狀態。此時，VOR開關請設定於“OFF”。

使用前須知注意

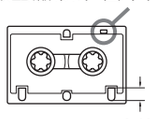
電源

- 本機只可使用3V DC直流電操作。
  要以交流電操作時，請使用指定的交流電轉接器。不可使用其他轉接器。要以電池操作時，請使用兩個R6（AA，3號）電池操作。

錄音機

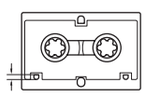
- 本機只可使用注有 MICROCASSETTE™（標准微型磁帶）的錄音帶。非標准型的磁帶本機不能使用，因爲“L”尺寸不同。

標準型
只有標準型
微型磁帶的A面才有一個小缺口。



大約5mm

非標準型



大約2.5mm

- 不可把錄音機放在熱源附近，或可直接受到陽光照射的，以及多灰塵，有震動的地方。
- 若有雜物或液體掉進機內，請取出電池，或拔下交流電轉接器，并經電氣專業人員檢查以後，方可再行使用。
- 不要把涂有磁層的個人信用卡或發條手表等，放在錄音機附近，以免受到錄音機里的揚聲器磁性的影響而損失功能。
- 若長期不使用電池，請取出，以免電池液腐蝕損壞機器。
- 錄音機若長期沒使用，下一次要再使用時，先把錄音機設定在播放狀態，使機器預熱了几分鐘，然後才插入錄音帶。

在操作錄音機時，若遇到任何困難，請洽詢附近的Sony經銷店。

故障排除

若在經過自己進行下列檢查調查以後，仍然不能使錄音機恢復正常時，請洽詢Sony經銷店。

錄音帶裝不進去。
→ 錄音帶方向裝反了。
→ ◀鈕已經被按下了。

機器不操作。
→ 電池裝錯了極性。
→ 電池便弱了。請全更換兩個新電池。
→ ▬PAUSE滑向箭頭所指方向。
→ AC電源轉接器只連接到機器而您是使用電池爲機器的電源。

不能錄音。
→ 磁帶座裡沒裝磁帶。
→ 磁帶上的小翼已被折除。您如果要再度使用此磁帶錄音，便須用黏膠帶蓋住已折除了小翼的凹孔。

錄音中途停止。
→ 當並不用VOR開關時，把VOR開關（M-650V/560V爲限）設定於H或L位置，必須設定於OFF。

進行CUE/REVIEW（提示／檢閱）中，磁帶停止了或不轉動。

不能快進繞或繞回。
→ 電池變弱了。請全更換兩個新電池。

錄音不能完全清除。
→ 磁頭髒了。請參看“保養”。

不能播放。
→ 磁帶已繞到盡頭。請繞回磁帶。

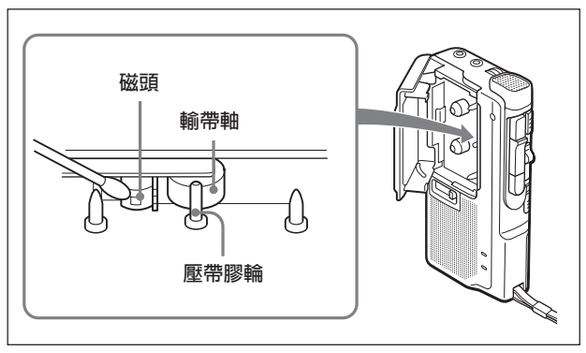
揚聲器沒聲音。
→ 接插著耳機。
→ 完全轉小了音量。

聲音脫落或噪音太大。
→ 完全轉小了音量。
→ 電池變弱了。請全更換兩個新電池。
→ 磁頭髒了。請參看“保養”。
→ 把所用磁帶放在揚聲器上至使磁帶受磁化而變了音質。
→ 機器，請離開能發射無線電波的裝置，例如電話的無線分機等使用。

播放模式中的磁帶速度太快或太慢。
→ TAPE SPEED開關設定得不當。請把它設定於與錄音時所用速度一樣的位置。
→ 電池變弱了。請全更換兩個新電池。

磁帶速度比正常的播放速度快。
→ FAST PB開關（M-650V爲限）滑到箭頭所指方向。

保養



磁頭及磁帶通道之清潔

每使用過10小時以後，請以棉棒沾點酒精，擦拭磁頭、輸帶軸及壓帶膠輪。擦時，請先按◀鈕。

機體外表的清潔

機體外表請以一稍微沾濕的柔軟布塊擦拭，不可使用酒精、揮發性油脂或稀釋劑。

規格

磁帶
MICROCASSETTE™ 微型磁帶（普通位置型）
錄音方式
2聲軌，1頻道，單耳音
揚聲器
直徑約爲3.6cm
磁帶速度
2.4cm／秒，1.2cm／秒
頻率范圍
300－4 000Hz（TAPE SPEED（磁帶速度）開關設定爲2.4cm／秒）
輸入（M-650V為限）
麥克風輸入插孔（微型／PLUG IN POWER，插入通電式）
麥克風阻抗爲3kΩ或低於3kΩ時，靈敏度爲0.24mV。
輸出
耳機插孔（微型插孔），供8－300Ω耳機之用
功率輸出（於10%諧波失真時）
250mW
電源
3V DC電池R6（AA，3號）×2／外部DC 3V電池
尺寸（寬／高／縱深）
大約62.2×119.1×25.4mm，包括突出部分及控制器
重量
M-650V：大約115g（主機爲限）
M-560V：大約113g（主機爲限）
M-455/450：大約109g（主機爲限）
附件
微型磁帶MC-30(1)（M-455爲限）

本機的設計及規格有所變更時，恕不另行奉告。

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