

索尼公司

Microcassette™ - Corder

Operating Instructions

操作说明书 (在背面)

M-650V/560V/450

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http://www.sony.net/

About This Manual

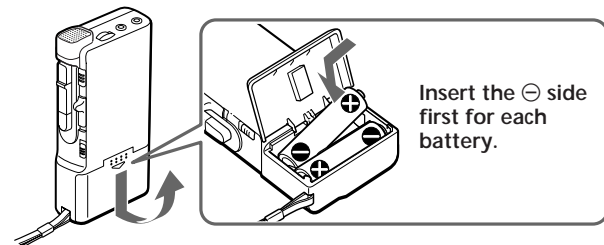
The instructions in this manual are for 3 models. The M-650V is the model used for illustration purposes. Their differences are shown in the table below:

	M-650V	M-560V	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

Preparing Power Sources

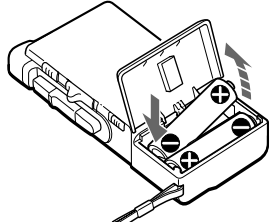
Dry Batteries



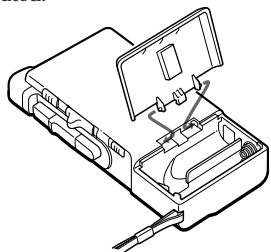
Insert the ⊖ side first for each battery.

- 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/450
Replace the batteries with new ones when the REC/BATT (M-560V) or BATT (M-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/450 only)
Sony alkaline LR6 (SG)**	26 (M-650V only)	30 (M-560V/450 only)

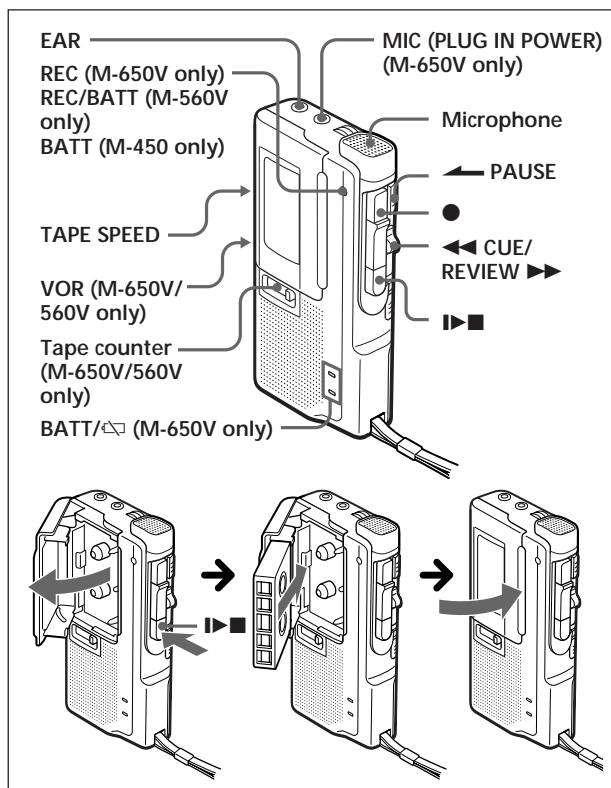
* Measured valued by the standard of JEITA (Japan Electronics and Information Technology Industries Association) (Using a Sony Microcassette)
**When using a Sony LR6 (SG) "STAMINA" alkaline dry batteries (produced in Japan)

Note

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

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 ►■ 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	►■
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-450) or REC (M-650V) lamp goes off.
Take out a cassette	►■

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)

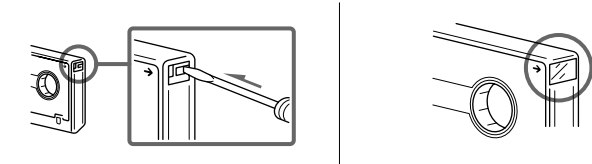
- The VOR system depends on the environmental conditions. If you cannot get the desired results, set VOR to OFF.
- When you use the unit in a noisy place, it will stay in the recording mode. If the sound is too soft, on the contrary, the unit will not start recording. Set VOR to H (high) or L (low) depending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

To monitor the sound

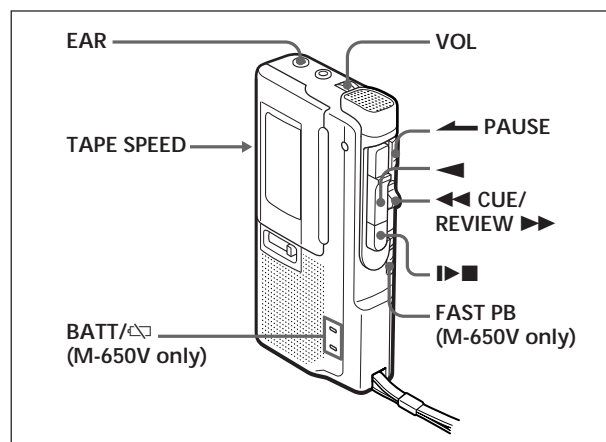
Connect an earphone (not supplied) to EAR jack. The monitor volume cannot be adjusted by VOL.

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*	►■
Pause playback	Slide ◀◀PAUSE in the direction of the arrow. The REC/BATT (M-560V), BATT (M-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 ►■.

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

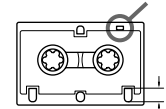
- Operate the unit only on 3 V DC. Use two R6 (size AA) batteries.

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 indentation of side A.



Approx. 5 mm

Non-standard



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 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.

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 cannot 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.

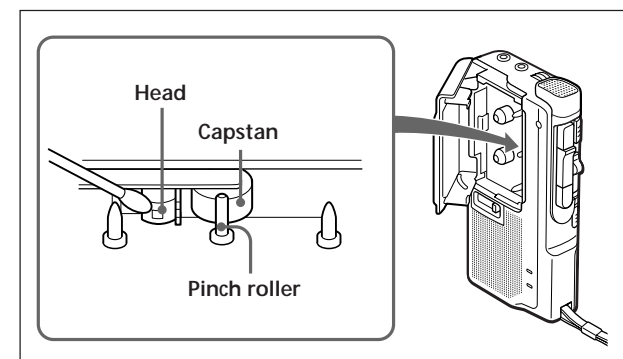
Tape speed is too fast or too slow in the playback mode.

- 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 (¹ / ₁₆ ips), 1.2 cm/s (¹ / 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
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-450: Approx. 109 g (main unit only)

Design and specifications are subject to change without notice.

关于此说明书

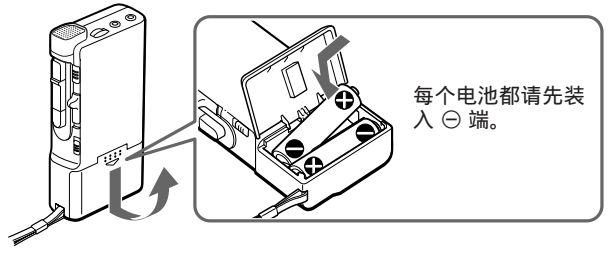
本说明书说明3个型号。M-650V型号是用于图示的。3型号间的异同列如下表：

	M-650V	M-560V	M-450
磁带计数器	○	○	—
MIC（麦克风）插孔	○	—	—
REC（录音）灯	○	—	—
BATT（电池）/⊞灯	○	—	—
REC/BATT（录音/电池）灯	—	○	—
BATT（电池）灯	—	—	○
VOR（语音操作记录）	○	○	—
FAST PB（快速播放）	○	—	—
手带	○	—	—

○：供应或附带
—：不能供应或无附带

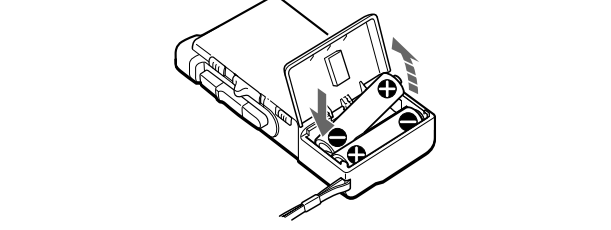
准备电源

干电池

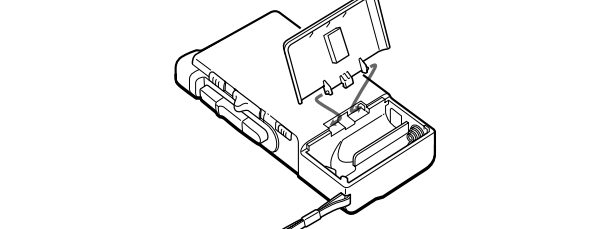


- 打开电池室盖。
- 装入两个R6（五号，AA）电池，装时须按照正确极性方向装入，然后盖上盖子。

要取出电池时



电池室盖不小心掉下来时的盖子装法
请按插图所示进行。



什么时候需要交换电池
M-560V/450
当REC/BATT(M-560V) 或BATT(M-450) 灯显得暗淡时，即请更换新电池。

M-650V
当BATT灯熄灭，⊞灯闪烁时，请更换新电池。

注

- 即使⊞灯起闪烁之后，机器仍可正常地播放一下，但是必须尽快更换电池。如果不换电池，您将不能获得正常声音的放音，所录声音可能参杂噪声，所录声音也会不够响亮（M-650V为限）。
- 如下状况时，并不必更换电池：
 - 当调高音量时，如果REC/BATT或BATT灯随播放声闪烁。
 - 当开始走带或到达磁带末端时：⊞灯亮了一下（M-650V为限）。
 - FF(CUE)（快进绕提示）或REW(REVIEW)（重绕检阅）操作中，如果⊞灯起闪烁（M-650V为限）。

电池寿命（大概时间）	<i>(JEITA*)</i>	
电池	录音时间	
Sony锰性电池R6P(SR)	8(M-650V为限)	10(M-560V/450为限)
Sony碱性电池LR6(SG)**	26(M-650V为限)	30(M-560V/450为限)

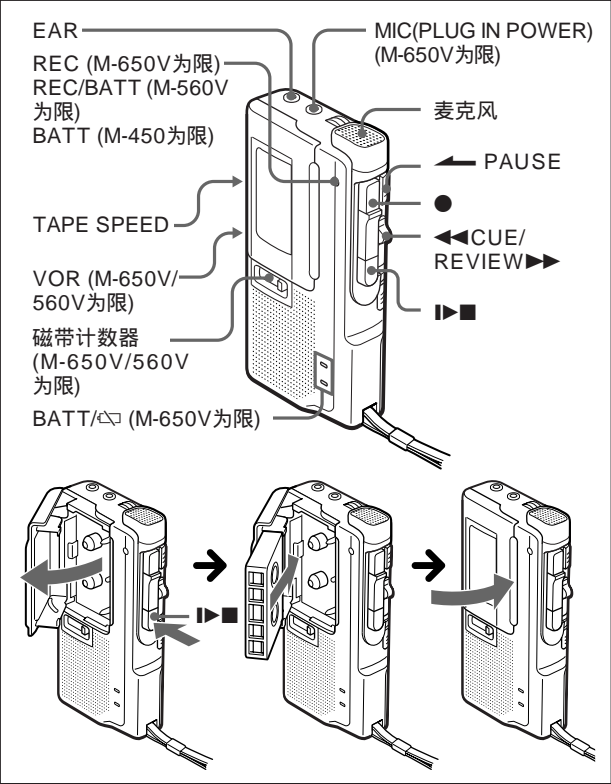
* 按JEITA（Japan Electronics and Information Technology Industries Association）标准测量的值（使用Sony微型卡带）
** 当使用Sony LR6(SG)“STAMINA”碱性干电池（日本制造）时

注

电池寿命可能因机器的操作情况而缩短。

录音

录音时，MIC插孔里不可连接任何电线（M-650V为限）



- 按磁带计数器的重设键（M-650V/560V为限）。
 - 按▶■键，插入一个标准微型卡带，装时须使要录音之面对着卡带室盖。
 - 选择录音带速度。
 - 声音音调音质最合适时的速度为2.4cm（平常请以此速度放音）：使用一个MC-30微型卡带的正反两面，可进行30分钟的录音。
 - 要进行较长的录音时的速度为1.2cm：使用一个MC-30微型卡带的正反两面，可进行60分钟的录音。
 - 把VOR开关设定在“H”，“L”或“OFF”（M-650V/560V为限）。
 - 若把VOR开关设定在“H”或“L”，则录音机将在发出声音时自动开始录音，没有声音时自动暂停下来（可以节省磁带及电池之消耗）。
 - H：要在会议室或安静的地方，及/或空间较大的地方录音时。
 - L：要录下供听写用的声音，或在嘈杂的地方录音时。
- 要录的声音若不够大，把VOR开关设定在“OFF”，否则便无法令录音机开始录音。
- 按压▶■键。
 - 即同时被按下而开始录音。录音带一开始卷动，REC或REC/BATT指示灯便发亮并按照声音强弱而闪烁（M-650V/560V为限）。
 - 录音电平是固定的。

要	须按压或设定的控制器
停止录音	按▶■键
在放音之中直接开始录音	在放音之中按压▶■键（录音机便进入录音状态）
重听刚录下的部分	在录音之中，把◀◀CUE/▶▶REVIEW键设定在“▶▶REVIEW”之处。在录音带转到要收听的地方时放开按键。
暂停录音	把◀PAUSE开关往箭头方向移动。REC/BATT(M-560V)，BATT(M-450)或REC(M-650V)灯熄灭。
取出录音带	按压▶■键

注

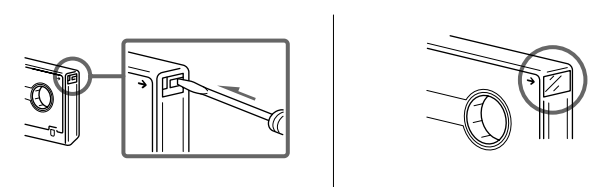
要播放以其他录音机录音的磁带时，把磁带速度设定在2.4cm之处。否则会影响放音时的音质。

关于VOR(Voice Operated Recording) 开关的注意事项（M-650V/560V为限）

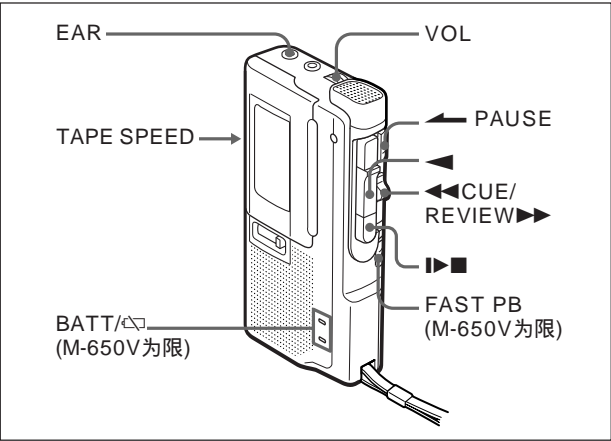
- VOR功能将因录音环境而影响录音效果。所以如果不能获得理想的录音，请把VOR开关设定在“OFF”。
- 在嘈杂的地方使用本机时，本机将一直处于录音状态。如果声音太轻，录音机也不会开始录音。根据环境把VOR设为H（高）或L（低）。

若要一面录音一面监听所录着的声音
在EAR插孔连接耳机（无附带）。监听器的音量是不能用VOL调整的。

为防止所录的地方因重录而被误消掉
拆掉录音卡带盒背的录音防止保险片。要再以那盒卡带录音时，在拆掉保险片的小洞，贴张胶带就行。



放音



- 把要放音之面对着卡带室盖，装入录音带。
- 把放音速度调整在和录音时一样速度之处。
- 按压◀键。
- 转动VOL调整音量。

如果把头戴耳机（无附带）插接到EAR插孔，则从左频道及右频道都将听到单耳声输出。

要	须按压或设定的控制器
停止放音 / 停止快转或倒转*	按▶■键
暂停放音	把◀PAUSE开关往箭头方向移动。REC/BATT(M-560V),BATT(M-450)或REC(M-650V)灯熄灭。
快速前转	在停止状态下，把◀◀CUE/▶▶REVIEW开关往◀◀CUE方向移动。
快速倒转	在停止状态下，把◀◀CUE/▶▶REVIEW开关往▶▶REVIEW方向移动。
在放音之中向前寻找某段落（CUE功能）	在放音之中向下推◀◀CUE/▶▶REVIEW键往◀◀CUE方向移动，直到找到所要寻找的地方才放开按键。
在放音之中向后寻找某段落（REVIEW功能）	在放音之中向上推◀◀CUE/▶▶REVIEW键往▶▶REVIEW方向移动，直到找到所要寻找的地方才放开按键。

* 若在录音带走到尽头，或被卷回起点以后离开录音机，则电池将很快就用完，切记此时一定要按下▶■键才离开座位。

注

放音中，当往前/往后寻找时，如果磁带完全绕完或重绕完了(CUE/REVIEW)，当您释放◀◀CUE/▶▶REVIEW开关时，它可能不会返回中央位置的。此时，请把它推回中央位置以开始放音。

如何加快录音带速度（M-650V为限）
把FAST PB开关往箭头方向移动。放音时的速度将加快。
要恢复普通的放音速度时，把FAST PB开关移到原来的位置。

录音带卷到尽头时

当在录音或放音之中，若录音带走到终点，就自动停止下来，而被按住的键钮也都自动跳上来（此即自动关机功能）。

作完快进绕或重绕之后，一定要把◀◀CUE/▶▶REVIEW按钮转回到中央部分。

从其他装置录音 / 以其他装置放音

（M-650V为限）

另连接麦克风录音

连接一支麦克风到MIC插孔。请使用低阻抗（3kΩ以下）的麦克风，例如ECM-T6（无附带）。若使用插入通电型的麦克风，麦克风的电源便由录音机供给。

注

使用机外麦克风时，因为各个麦克风的灵敏度不同，所以VOR功能也许不能正常工作。

从其他录音机录音

用RK-G64HG连接导线（无附带）将另一磁带录音机连接到MIC插孔。
把本机设定在录音状态，并把另一架录音机设定在放音状态。
此时，VOR开关请设定在“OFF”之处。

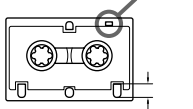
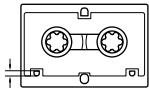
使用前须知注意事项

电源

- 本机只可使用3V DC直流电操作。请使用两个R6（五号，AA）电池操作。

录音机

- 本机只可使用注有(MICROCASSETTE)™（标准微型卡带）的录音带。非标准型的卡带本机不能使用，因为“L”尺寸不同。

标准型 只有 标准型 微型卡带的A面才有一个小刻号。	非标准型
	
约5mm	约2.5mm

- 不可把录音机放在热源附近，或直接受到阳光照射的地方，以及灰尘极多，容易受震动之处。
- 若让固定或液体掉落机内，请取出电池，并经电气专业人员检查以后，方可再行使用。
- 不要把涂有磁层的个人信用卡或发条手表等，放在录音机附近，以免受到录音机里的扬声器磁性的影响，而损失功能。
- 若长期使用不用电池，请取出，以免电池溶液泄漏，损伤机体或腐蚀。
- 录音机若长期不使用，下一次要再使用时，先把录音机设定在放音状态，使机器预热了几分钟，然后才插入录音带。

在操作录音机时，若遇到任何困难，请向离贵地最近的Sony经销商商量。

故障排除

若在经过自己进行下列检查调查以后，仍然不能使录音机恢复正常的话，请向Sony经销商商量。

录音带装不进去。

- 录音带方向装反了。
- ▶键已经被按下了。

本机不工作。

- 电池装反了。
- 电池电量不足。请同时更换两个新电池。
- ▶PAUSE往箭头方向移动了。

不能录音。

- 卡带室里没装录音带。
- 磁带上的防录保险片被拆掉了。要使磁带能重新录音，用胶带覆盖保险片孔。

录音中途停止。

- VOR开关（M-650V/560V为限）被设为H或L。当不使用VOR时，请把它设为OFF。
- 不能进行快进或重绕。
 - 电池电量不足。请同时更换两个新电池。
- CUE/REVIEW（提示 / 检阅）中，磁带停止或不走动。

以前的录音不能完全消除。

- 磁头脏了。参看“维护”。

不能播放。

- 磁带已到头了。重绕磁带。

扬声器没有声音。

- 耳机插入耳机插孔。
- 音量被调到最小。

声音跳音或噪音太大。

- 音量被调到最小。
- 电池电量不足。请同时更换两个新电池。
- 磁头脏了。参看“维护”。
- 把卡带放在扬声器上导致磁化以及声音质量劣化。
- 在远离无线电发射设备如手机处使用本机。

在放音时，磁带速度不是太快就是太慢。

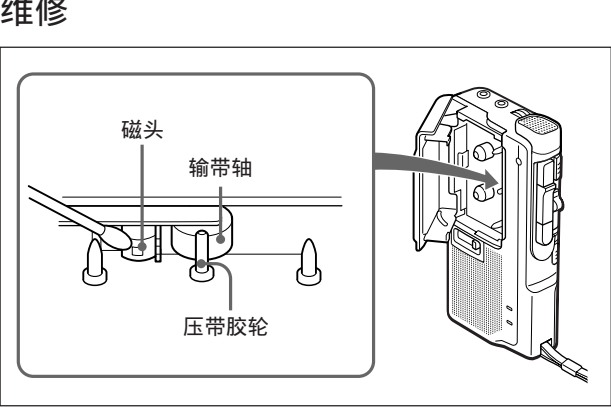
- TAPE SPEED开关的设定不正确。把它设在和该磁带录音时相同速度之处。

- 电池电量不足。请同时更换两个新电池。

磁带速度比平常的放音速度快。

- FAST PB开关（M-650V为限）被往箭头方向移动了。

维修



磁头及磁带通道之清洁

每使用过10小时以後，请以棉棒沾点酒精，擦拭磁头、输带轴及压带胶轮。擦时，请先按▶键。

机体外表的清洁

机体外表请以一稍微沾湿的柔软布块擦拭，不可使用酒精、挥发性油脂或稀释剂。

规格

磁带	(MICROCASSETTE)™ 微型卡带（普通位置型）
录音方式	2声轨，1频道，单音
扬声器	直径约为3.6cm
磁带速度	2.4cm / 秒，1.2cm / 秒
频率范围	300 - 4 000Hz（TAPE SPEED（磁带速度）开关设定为2.4cm / 秒）
输入（M-650V为限）	麦克风输入插孔（微型 / PLUG IN POWER，插入通电式）
麦克风阻抗为3kΩ或低於3kΩ时，灵敏度为0.24mV。	
输出	耳机插孔（微型插孔），供8 - 300Ω耳机之用
功率输出（于10%谐波失真时）	250mW
电源	3V DC电池R6（五号，AA）×2
尺寸（宽 / 高 / 深）	约62.2×119.1×25.4mm，包括突出部分及控制器
重量	M-650V：约 115g（主机为限）
	M-560V：约 113g（主机为限）
	M-450：约 109g（主机为限）
	本机设计及规格或有变更之处，恕不另行通知。