

# Cassette-Corder

Operating Instructions  
Mode d'emploi (au verso)

TCM-AP5V

©1996 by Sony Corporation Printed in China

## For the customers in the USA Owner's Record

The model number is located at the bottom and the serial number is located inside the tape holder. Record the serial number in the space provided below. Refer to whenever you call upon your Sony dealer regarding this product.

Model No. TCM-AP5V Serial No. \_\_\_\_\_

## INFORMATION

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 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 warranty is valid only in the United States.

## Welcome!

- Thank you for purchasing the Sony Cassette-Corder. Some features are:
- DPC (Digital Pitch Control) allows you to adjust the pitch of the playback sound.
  - You can increase or decrease the playback tape speed within the range of approximately +100% to -50%. If you change the playback tape speed, the pitch will be automatically adjusted.
  - Built-in flat microphone for clear recording of speaker's voice.
  - The BATT/REC lamps indicate the remaining battery power in two steps and the lamp shows when to replace the batteries.
  - VOR (Voice Operated Recording) system that starts and stops recording automatically in response to the sound, to save tapes and batteries.
  - Automatic shut-off mechanism at the end of the tape (in the recording/playback mode only).
  - Stop-pause-release function—The pause switch is released automatically when the button is depressed, so that you don't miss a recording chance.

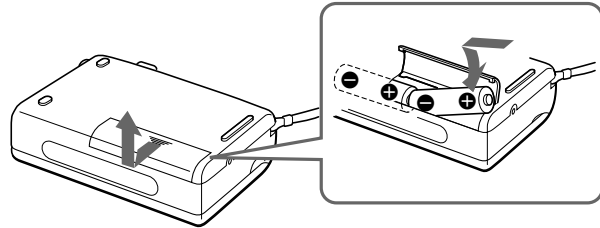
### ▶ Getting Started

## Preparing a Power Source

Choose one of the following power sources.

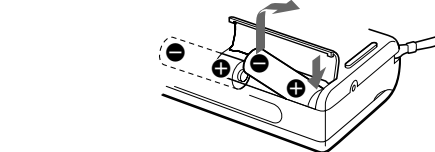
### Dry Batteries

Make sure that nothing is connected to the DC IN 3V jack.

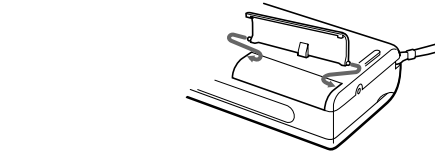


- 1 Open the battery compartment lid.
- 2 Insert two size AA (R6) batteries (not supplied) with correct polarity and close the lid.

### To take out the batteries



**To attach the battery compartment lid if it is accidentally detached**  
Attach it as illustrated.



### Battery life (Approximate hours)

	Playback	Recording
Sony alkaline LR6 (SG)	8.5	8.5
Sony R6P(SR)	2	2

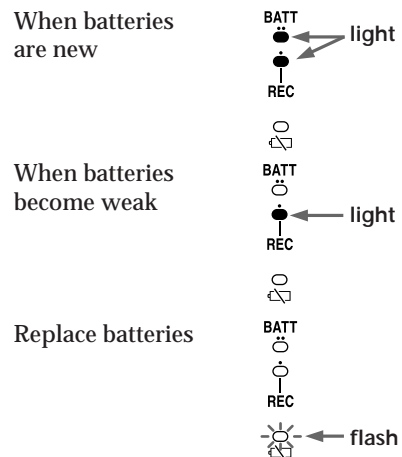
We recommend to use long-life alkaline batteries.

### Notes

- Do not charge a dry battery.
- Do not use a new battery with an old one.
- Do not use different types of batteries.
- When you do not use the unit for a long time, remove the batteries to avoid any damage caused by battery leakage and subsequent corrosion.
- Dry batteries will not be expended when another power source is connected.

### When to replace the batteries

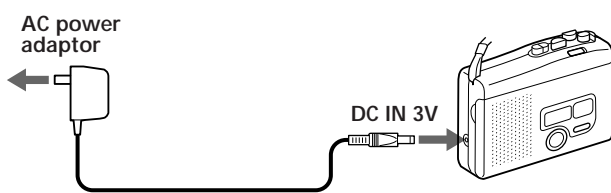
Replace the batteries with new ones when the BATT/REC lamps go off and the lamp flashes. The BATT/REC lamps change as illustrated:



### Notes

- During FF (CUE) or REW (REVIEW), the lamp may flash. Only when the tape does not run properly, replace the batteries.
- In some cases when the unit is used with rechargeable batteries, only one BATT/REC lamp will light even though the batteries have been fully charged.
- After the batteries have been used for a while, the BATT/REC lamp(s) may flash with the playback sound when you turn up the volume; however, this does not mean that you need to replace the batteries.
- 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, a loud noise may be emitted by the built-in speaker or subsequent recording will not be done correctly.
- When the tape starts running or at the end of the tape the lamp may momentarily light. If the lamp goes off, you do not need to replace the batteries.

## House Current



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

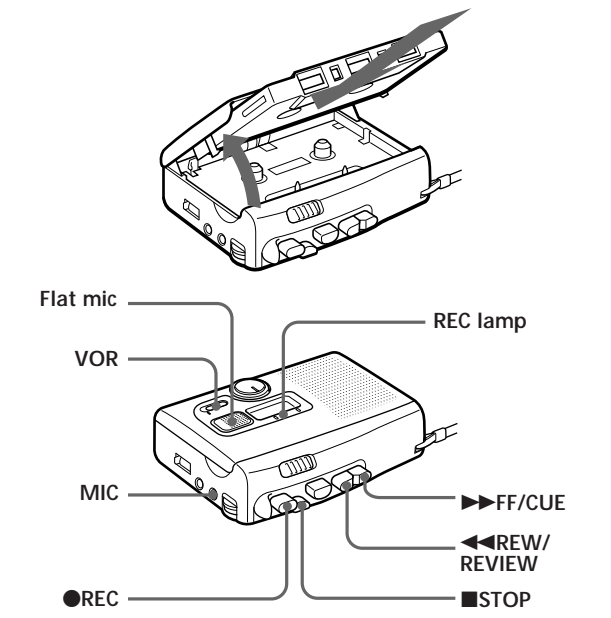
### Polarity of the plug



### ▶ Operating the Unit

## Recording

You can record the sound easily with the built-in microphone. Use a normal (TYPE I) tape. Make sure that nothing is connected to the MIC jack.



- 1 Open the cassette compartment lid.
- 2 Take out any slack in the tape and insert the cassette with the side to start recording facing the lid.
- 3 Close the cassette compartment lid.
- 4 Set VOR to L, H or OFF. For details, see "VOR (Voice Operated Recording)".
- 5 Press REC. Recording starts. Place the unit on a hard surface such as a desk with the cassette holder side up so that the flat mic can record effectively. While the tape runs, the REC lamp lights and flashes depending on the strength of the sound.

At the end of the tape, recording stops and the unit turns off automatically.

To	Press or slide
Stop recording	STOP
Pause recording	PAUSE To release pause recording, release  PAUSE *.
Take out a cassette	Press  STOP and open the cassette compartment lid by hand.

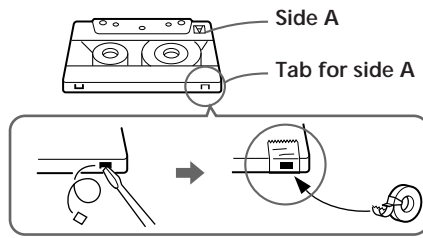
\* PAUSE will be also automatically released when STOP is pressed (stop-pause-release function)

### Note

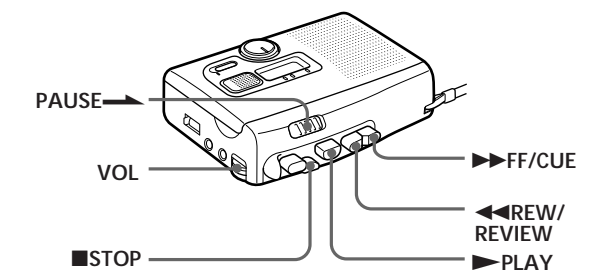
Do not use a CrO<sub>2</sub> (TYPE II) or metal (TYPE IV) tape, otherwise the sound may be distorted when you play back the tape, or the previous recording may not be erased completely.

### To prevent a tape from being accidentally recorded over

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



## Playing a Tape



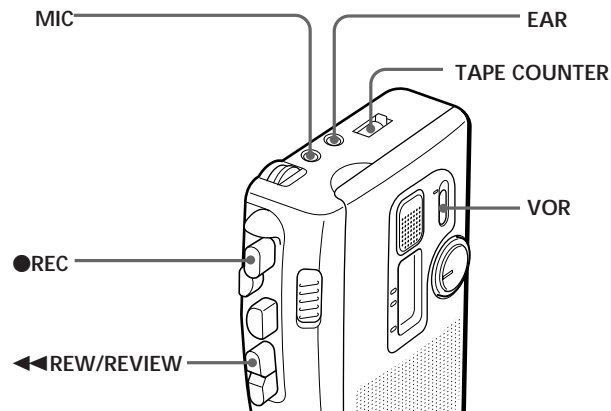
- 1 Open the cassette compartment lid.
- 2 Insert a cassette with the side to start playing facing the lid.
- 3 Close the cassette compartment lid.
- 4 Press PLAY then adjust the volume.

At the end of the tape, playback stops and the unit turns off automatically.

To	Press or slide
Stop playback/stop fast forward or rewind	STOP
Pause playback	PAUSE To release pause playback, release  PAUSE *.
Fast forward**	FF/CUE during stop
Rewind**	REW/REVIEW during stop
Search forward during playback (CUE)	Press and hold  FF/CUE and release it at the point you want
Search backward during playback (REVIEW)	Press and hold  REW/REVIEW and release it at the point you want
Take out a cassette	Press  STOP and open the cassette compartment lid by hand.

\* PAUSE will be also automatically released when STOP is pressed (stop-pause-release function)  
\*\* If you leave the unit after the tape has been wound or rewound, the batteries will be consumed rapidly. Be sure to depress STOP.

## Using Various Functions



### Using tape counter

Before recording, press the counter reset button to set the TAPE COUNTER to 000. It is useful to search the beginning of the recording.

### VOR (Voice Operated Recording)

Set VOR to L or H. Press REC, and the unit automatically starts recording the sound and pauses when there is no sound (you can save tapes and batteries). You can set VOR to L or H during recording too.  
H: To record at meetings or in a quiet place.  
L: To record for dictation in a noisy place.  
When you use this system in a noisy place the unit stays in the recording mode. If the sound is too soft, on the contrary, the unit will not start recording. Set VOR to L (low) or H (high) depending on the conditions. When you do not use this function, set VOR to OFF.

### Notes

- The VOR system depends on the environment conditions. If you cannot get the desired results, set VOR to OFF.
- When using the VOR system, the unit starts recording only when a sound is detected, therefore, the beginning of the word may not be recorded. For an important recording, we recommend setting VOR to OFF.

### To monitor the sound while recording

Connect an earphone (not supplied) firmly to the EAR jack. The sound of monitoring cannot be adjusted by VOL. The recording level is fixed.

### Start recording during playback

Press REC during playback, recording starts immediately. It is useful when you want to re-record the portion which was just recorded.

### Review the portion just recorded

Press REW/REVIEW during recording. Release the button at the point to start playback.

### When the tape comes to an end (automatic shut-off mechanism)

Recording or playback stops and the unit turns off automatically.

## DPC (Digital Pitch Control) and Speed Control Function

**How to adjust the pitch combined with the tape playback speed**  
Adjust SPEED/PITCH CONTROL as follows:

To play back	Set SPEED/PITCH CONTROL to
slower	SLOW
at normal speed	Center
faster	FAST

### Notes

- Even though you use DPC, you cannot acquire the same pitch as the original. The tone will be somewhat different from the original.
- When the power of the batteries is weak, the SPEED/PITCH CONTROL may make noise if you turn it fast. In that case turn it slowly or change the batteries.
- When SPEED/PITCH CONTROL is turned or the volume is adjusted during playback, BATT/REC lamps may flicker.

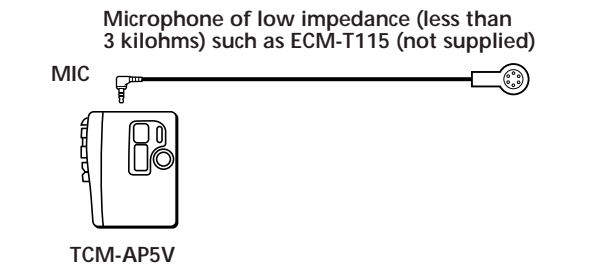
## Recording from Various Sound Sources

### Notes (Before recording)

- When connecting cords, be sure you connect plugs firmly.
- Make a trial recording to make sure that you made connections correctly and adjusted the volume properly.
- The following examples use Sony products. If you have any problem when using other products, read the instruction manual of those products.

### Recording with an External Microphone

Connect a microphone to the MIC jack. The built-in microphone will be disconnected and the sound through the external microphone will be recorded. When using a plug-in-power system microphone, the power to the microphone is supplied from this unit.



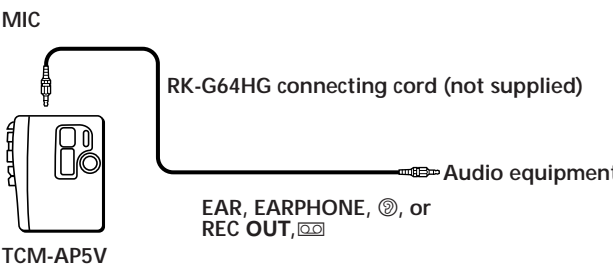
To start recording, insert a cassette and press REC.

### Note

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

### Recording from Another Equipment

Connect another equipment to the MIC jack using the RK-G64HG connecting cord (not supplied).



- 1 Insert a cassette.
- 2 Adjust the sound of the connected equipment.
- 3 Press REC.

### ▶ Additional Information

## Precautions

### On power

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

### On the unit

- 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.
- If the unit has not been used for a long time, set it in the playback mode and warm it up for a few minutes before inserting a tape.

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.

### On tapes longer than 90 minutes

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

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.

### Recording cannot be made.

- No cassette is inserted.
- The tab on the tape has been removed. To reuse the tape for recording, cover the tab hole with adhesive tape.
- The batteries are weak. Replace both batteries with new ones.
- The record/playback head is contaminated.

### Playback cannot be made.

- The tape has reached the end. Rewind the tape.
- The record/playback head is contaminated.

### 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.

### 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 or car battery cord is not firmly connected.
- The batteries have been inserted, but simultaneously the AC power adaptor is connected and not to be done to the wall outlet.

### No sound comes from the speaker.

- The earphone is plugged in.
- The volume is turned down completely.

### The sound drops out, sound quality becomes worse or sound has excessive noise.

- The batteries are weak. Replace both batteries with new ones.
- The record/playback head is contaminated.
- If the cassette has been put on a speaker without its case, the sound quality may be distorted.
- CrO<sub>2</sub> (TYPE II) or metal (TYPE IV) tape is used.

### Recording is interrupted.

- VOR is set to L or H. When you do not use VOR, set it to OFF.

### The sound is not stable and becomes out of pitch suddenly.

- SPEED/PITCH CONTROL is set at a point other than the center.
- The batteries are weak. Replace both batteries with new ones.
- The capstan and pinch-rollers are contaminated.

### Recording cannot be erased completely.

- The erase head is contaminated.

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

- SPEED/PITCH CONTROL is set at a point other than the center.

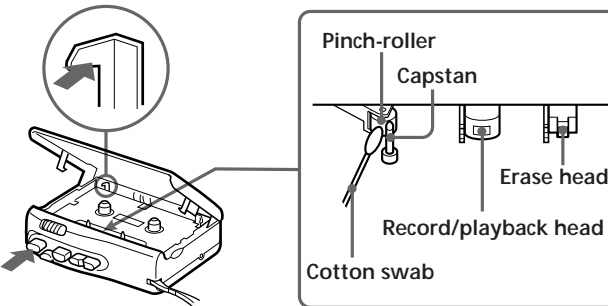
### While operating, some noise is heard.

- The counter reset button is pressed incorrectly. Press it correctly to set to 000.

### When the tape has reached the end after fast forward or rewind, noise is heard.

- The unit is not in stop mode. Press STOP.

## Maintenance



### To clean the tape heads and path

Depress REC while pushing the lever. Wipe the heads, pinch rollers, and the capstans 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

<b>Recording system</b>	2-track 1 channel monaural
<b>Frequency range</b>	250 - 6,300 Hz
<b>Speaker</b>	Approx. 3.6 cm (1 7/16 in.) dia.
<b>Power output</b>	150 mW (at 10 % harmonic distortion)
<b>Input</b>	Microphone input jack (minijack) sensitivity 0.2 mV for 3 kilohms or lower impedance microphone
<b>Output</b>	Earphone jack (minijack) for 10 kilohms or lower impedance earphone
<b>Variable range of the tape speed</b>	from +100% to -50%
<b>Power requirements</b>	3V DC Two size AA (R6) batteries
<b>Dimensions (w/h/d) (incl. projecting parts and controls)</b>	Approx. 90.9 × 113.0 × 37.8 mm (3 3/8 × 4 1/2 × 1 1/2 in.)
<b>Mass</b>	Approx. 205 g (7.3 oz.) not incl. batteries Approx. 275 g (9.8 oz.) incl. batteries and cassette

Design and specifications are subject to change without notice.



