

## Precautions

- Operate the unit only on 3V DC.
- For AC operation, use the AC power adaptor recommended for the unit. For car battery operation, use the car battery cord recommended for the unit. Do not use any other type.
- Avoid exposure to temperature extremes, direct sunlight, moisture, sand, dust, or mechanical shock.
- Never leave in a car parked in the sun.
- When the internal batteries are not to be used, remove them to avoid damage caused by battery leakage and corrosion.
- If the unit has not been used for a long time, set it in the playback mode to warm it up for a few minutes before inserting a cassette.
- 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.
- Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-loaded watches away from the unit to prevent possible damage from the magnet.
- Insert one battery into the supplied tube to avoid causing a short circuit.

**Note on cassettes longer than 90 minutes**  
The use of cassettes longer than 90 minutes is not recommended except for a long continuous recording or playback.

If you have any question or problem concerning your unit that is not covered in this manual, please consult the nearest Sony dealer.

## Specifications

**Recording system** 2-track 1-channel monaural  
**Frequency response** 120-8,000 Hz  
**Speaker** Approx. 4.5 cm (1 7/8") inches dia  
**Power output** 180 mW (at 10% harmonic distortion)  
**Input (except TCM-31)** Microphone input jack (microphone sensitivity 0.2 mV (-72 dB) for 300 or lower impedance microphone)  
**Output** Earphone jack (minijack) for 8-3000 earphone  
**Power requirements** 3V DC, two size AA (R6) batteries  
 DC IN 3V jack accepts:  
 • Sony AC power adaptor AC D2M (optional) for use on 120V AC, 60 Hz  
 • Sony DCC-70 car battery cord (optional) for use on 12V car battery

### Battery life (hours)

Battery	Recording
Sony battery SUM-3 (NS)	Approx. 4
Sony alkaline battery AM3 (N)	Approx. 12

### Dimensions

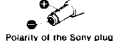
TCM-31  
 Approx. 93.7 × 136.4 × 35.8 mm (width)  
 (3 1/2" × 5 3/8" × 1 1/2" inches)  
 TCM-32V  
 Approx. 94.1 × 136.6 × 35.8 mm (width)  
 (3 1/2" × 5 3/8" × 1 1/2" inches)  
 TCM-34V/35  
 Approx. 94.1 × 137.1 × 35.8 mm (width)  
 (3 1/2" × 5 3/8" × 1 1/2" inches)  
 incl. projecting parts and controls  
 TCM-31  
 Approx. 260 g (9.2 oz)  
 TCM-32V/34V/35  
 Approx. 270 g (9.6 oz) incl. batteries

### Optional accessories

AC power adaptor AC D2M  
 Car battery cord DCC-70  
 Monaural earphone ME-81  
 Connecting cord RK-654

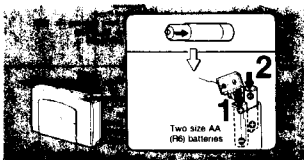
\*Your dealer may not handle some of the above listed optional accessories. Please ask the dealer for detailed information about the optional accessories available in your country.  
 Design and specifications subject to change without notice.

**Note:** Use only the recommended AC power adaptor or car battery cord manufactured by Sony. Polarity of the plugs of other manufacturers may be different.



Polarity of the Sony plug

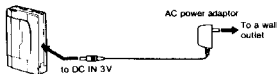
## Battery Installation



### When to replace batteries

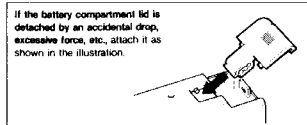
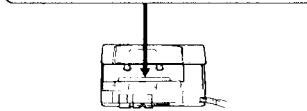
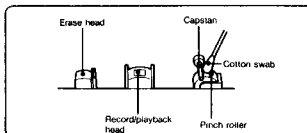
When the playback sound becomes distorted or unstable, replace both batteries with new ones.  
 Concerning the battery life, see "Specifications".

## House Current Operation



**Note:** The unit cannot be operated on the internal batteries when the AC power adaptor is connected to the unit.

## Cleaning



## Troubleshooting Guide

Trouble	Causes and Remedy
The <b>Ⓢ</b> button cannot be depressed.	• No cassette in the cassette holder. • The cassette inserted has the tabs removed.
The <b>▶</b> button cannot be locked.	• The tape is completely wound towards the arrow direction on the cassette holder.
Tape does not move.	• Incorrect polarity of batteries. • Weak batteries. • The FUSE switch is slid down. • Improper connection of the AC power adaptor or the car battery cord.
Recording cannot be made or is unsatisfactory.	• Weak batteries. • Improper setting of VOR SENS (TCM-32V, 34V).
No sound from the speaker.	• The earphone is plugged in. • VOLUME is turned down completely.
Weak or distorted sounds.	• Weak batteries.
Sound drop-outs, loss of high frequency or excessive noise.	• Dirty heads: Clean the points with a cotton swab or soft cloth slightly moistened with cleaning fluid or alcohol. (See "Cleaning".)

## SONY

### Cassette-Corder

# TCM-31 TCM-32V TCM-34V TCM-35

## Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

## Owner's Record

The model number is located on the bottom and the serial number is located in the rear of the cassette holder.  
 Record these numbers in the space provided below.  
 Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_

## Features

### Functional details

TCM-31 Basic Cassette-Corder model  
 TCM-32V TCM-31 + VOR system + MIC jack  
 TCM-34V TCM-32V + COUNTER  
 TCM-35 TCM-31 + COUNTER + MIC jack + CUE MARKER

- Compact size and easy operation.
- VOR system economizes tapes, batteries and playback time. (TCM-32V, 34V only)
- You can search the desired portion that had marked by CUE MARKER quickly. (TCM-35 only)
- You can review the previously recorded portion with one-button operation.

### What is VOR (Voice operated recording) system?

With this system, recording starts only when the sound is picked up and stops automatically when the sound is no longer detected.

### What is CUE MARKER?

You mark a desired portion by CUE MARKER while recording. Then the beep sound will tell you a marked portion while CUE or REVIEW is being pressed during tape playback. You can easily search the certain portion that marked.

## LIMITED WARRANTY

SONY CORPORATION OF AMERICA (SONY) warrants the product against defects in material and workmanship as follows:

1. For a period of 90 days from the date of purchase, SONY shall, at its sole and exclusive option, either repair the product or replace the defective portion with the same model or its equivalent model or, at its option, refund the purchase price to the SONY SERVICE CENTER.

2. SONY warrants against defects in material and workmanship in the product for the period indicated to one of the SONY SERVICE CENTERS located in the United States:

3. After the 90-day period, SONY will repair or replace the product without charge to the defective parts for a period of 1 year from the date of repair.

Labels for repair and replacement of these parts is available from SONY authorized service centers or SONY SERVICE CENTER, at your expense.

Warrant is limited to the unit in a part which is damaged, which indicates that the product is within the warranty period, must be presented to obtain warranty service. SONY suggests that the purchaser retain the original dated bill of sale as evidence of the date of sale.

This warranty does not cover corrosion, damage and damage to any part of the product, including the accessories, which results from any of the following: misuse, abuse, improper maintenance or compression to or excessive voltage input.

This warranty is void in all areas where the product is not sold. This warranty is void only in the United States of America.

Warrant on this model is provided under the warranty of the FCC/DOJ. REVIEW OF THE CONSUMER MUST BE MADE FOR ANY ACCIDENTAL DISCHARGES THAT OCCURRED FROM THE DATE OF PURCHASE TO THE DATE OF THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE DURATION OF THIS WARRANTY.

Some states do not allow the limitation on duration of implied or consequential damages or the limitation on the amount of damages recoverable. If you are in such a state, you may be entitled to recover more than the amount of damages recoverable under this warranty. Please refer to your local laws for more information.

Please refer to the list of SONY SERVICE CENTERS for the SONY SERVICE CENTER nearest you.

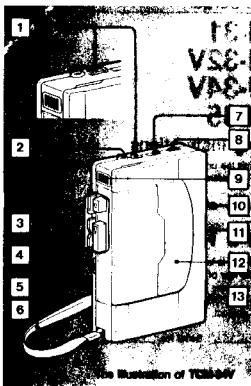
For more information, write to: SONY CORPORATION OF AMERICA, The Corporate Information Center to supply you with product literature information.

SONY CUSTOMER INFORMATION CENTER  
 201-333-SONY (1989)

SONY CORPORATION OF AMERICA  
 6600 Rockledge Drive, Suite 300  
 Rockledge, Florida 32955

SONY CORPORATION OF AMERICA  
 5000 West Park Drive, Suite 300  
 Dallas, Texas 75225

## Parts Identification



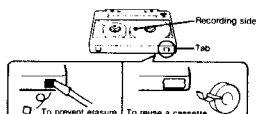
- 1 VOR (voice operated recording) ON/OFF switch (TCM-32V, 34V)  
CUE MARKER button (TCM-35)
- 2 EAR (EARPHONE) jack
- 3 Tape operation buttons  
● REC (record) ▽ PLAY ● STOP ▽ FF/CUE (fast forward/cue) ▲ REW/REVIEW (rewind/review)
- 4 PAUSE switch
- 5 Speaker (rear)
- 6 Handstrap (TCM-32V, 34V, 35)
- 7 COUNTER and reset button (TCM-34V/35)  
For indexing the tape contents. Before recording push the reset button to set the counter to "000".
- 8 VOL (VOLUME)/VOR SENS (VOR sensitivity; TCM-32V, 34V) control  
In playback mode: volume control  
In recording mode: VOR sensitivity control
- 9 Built-in microphone
- 10 MIC PLUG IN POWER (external microphone) input jack (right side) (TCM-32V, 34V, 35)
- 11 DC IN 3V (external power input) jack (right side)
- 12 Cassette holder
- 13 Battery compartment (right side)

Illustration of TCM-35

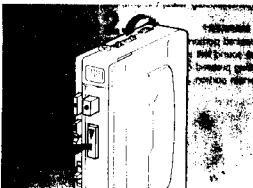
## Cassette Insertion



To prevent accidental erasure  
Break out the tab corresponding to the side to be recorded on. Recording on that side will be protected.



## Playback



To advance the tape rapidly, press ▽.  
To rewind the tape, press ▲.  
During playback  
To skip undesired segments, press ▽.  
To repeat a certain segment, press ▲.  
When the button is released, playback resumes.

## Recording

Use only TYPE I (normal) tape for recording.



To re-record over a previously recorded portion, depress ● during playback.

To review the portion just recorded, depress ▲ while recording. When releasing ▲, the playback will be started.

To monitor the recording sound, connect an earphone to EAR(EARPHONE). Volume is fixed.

Note: Be sure not to bring the earphone close to the built-in microphone when monitoring. Otherwise a howling effect (acoustic feedback) may occur.

### Connecting cord (optional)

(except TCM-31)

To record from other equipment, connect the MIC jack of this unit to the other equipment with an optional RK-G64 connecting cord.

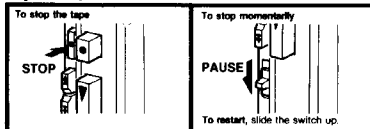
## Marking a Certain Portion (TCM-35 only)



To search the marked portion during tape playback,  
While CUE or REVIEW is being pressed during tape playback, you will hear the beep sound at a certain portion you marked. Release it when you searched the desired portion you marked to restart playing back.

- Notes
- \* Beep sound may not easily heard while CUE or REVIEW is being pressed. However, this is not trouble.
  - \* You will not hear the beep sound during tape playback or when volume is turned down completely.
  - \* When you press ● STOP just after you push CUE MARKER, a cue mark is not memorized.

## Tape Stop



At the end of the tape, the tape stops and locked ● or ▽ will be released. In fast forward or rewind mode, be sure to press ● to stop the tape.

## Sony Service Centers

<b>Arizona</b> Phoenix 2240 North Scottsdale Road Scottsdale, AZ 85261 (802) 949-7888	<b>Hawaii</b> Honolulu 850 Manuapuna Street Honolulu, HI 96819 (808) 834-8622	<b>Missouri</b> St. Louis 12482 D Neutral Bridge Road Bridgton, MO 63004 (314) 291-2201
<b>California</b> Burbank (Los Angeles area) 2820 West Olive Avenue, Suite B Burbank, CA 91505 (818) 842-7888	<b>Illinois</b> Miles (Chicago NW) 7840 Caldwell Avenue Miles, IL 60048 (312) 847-2400	<b>New Jersey</b> Englewood Cliffs (N.Y. Metro. area) 41 Saxon Avenue Englewood Cliffs, NJ 07832 (201) 985-9734
<b>Colorado</b> San Jose (San Francisco area) 751 Camino Plaza San Bruno, CA 94066 (415) 871-2810	<b>Indiana</b> Westmore (Chicago SW) 6036 38 <sup>th</sup> South Case Avenue Westmore, IN 46059 (317) 888-0948	<b>New York</b> Mahwah (N.Y. Metropolitan Area) 388 Route 17 South Mahwah, NJ 07430 (201) 528-8655
<b>Connecticut</b> San Diego 8975 Cometa Drive San Diego, CA 92123 (619) 273-2724	<b>Kansas</b> Kansas City 11312 West 85 Street Overland Park KS 66214 (913) 888-2822	<b>Ohio</b> Cleveland 8270 Von Road Painesville, OH 44130 (216) 845-7889
<b>Florida</b> Fort Lauderdale 3304 North 27th Avenue Hollywood, FL 33020 (305) 920-5800	<b>Maryland</b> (Washington D.C.) Washington DC 1388 Helen Lane Langley Park, MD 20783 (301) 439-3500/01	<b>Pennsylvania</b> Philadelphia 10280 Devonwood Road Philadelphia, PA 19154 (215) 837-0950/1
<b>Georgia</b> Atlanta 120 Ingate North Parkway East Suite A Atlanta, GA 30339 (404) 953-5871	<b>Massachusetts</b> Boston 290 University Avenue 128 Westwood Industrial Center Westwood, MA 02090 (617) 328-9130	<b>Pittsburgh</b> Pittsburgh 10910 Perry Highway (Rt. 19H) Westford, PA 15080 (412) 935-8486
<b>Illinois</b> Naperville 4100 W. 91 <sup>st</sup> Street St. Louis Park, MN 55416 (612) 920-8000	<b>Michigan</b> Detroit 24301 Innapex Circle Farmington Hills, MI 48018 (313) 477-1800	<b>Texas</b> Dallas 401 Preston Valley Shopping Center Dallas, TX 75220 (214) 681-3822
<b>Minnesota</b> Minneapolis 4100 W. 91 <sup>st</sup> Street St. Louis Park, MN 55416 (612) 920-8000	<b>Mississippi</b> Birmingham 815 South Michigan Street Saville, MS 38608 (208) 922-8500	<b>Washington</b> Seattle 3804 North 27th Avenue Hollywood, FL 33020 (305) 920-5858

## Sony District Service Offices

Western Zone	Central Zone	Eastern Zone
<b>Western District</b> Sony Service Company 2728 Walnut Street South Costa Mesa, CA 92626 (714) 548-8238	<b>M&amp;W District</b> Sony Service Company 7840 Caldwell Avenue Miles, IL 60048 (312) 847-2424	<b>Eastern District</b> Sony Service Company 388 Route 17 South Mahwah, NJ 07430 (201) 528-8918
<b>Northeastern District</b> Sony Service Company 1350 Old Gallant Road San Jose, CA 95112 (408) 280-7878	<b>East Central District</b> Sony Service Company 24301 Innapex Circle Farmington Hills, MI 48018 (313) 477-4800	<b>M&amp;A District</b> Sony Service Company 24301 Devonwood Road Philadelphia, PA 19154 (215) 832-1997
<b>Southwestern District</b> Sony Service Company 2701 W. Algonquin Freeway, Suite 112 Irving, TX 75062 (214) 258-1817		<b>Southwestern District</b> Sony Service Company 3804 North 27th Avenue Hollywood, FL 33020 (305) 920-5858