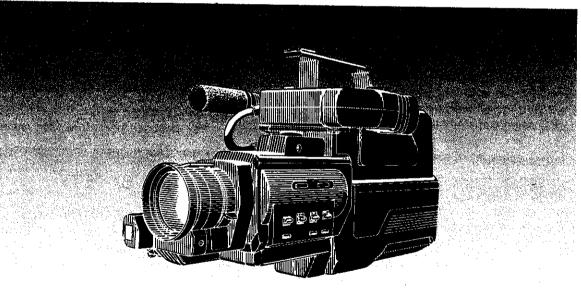
Operating Instructions



VHS Movie NV-M5AM





Before attempting to connect, operate or adjust this product, please read these instructions completely.

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ENGLISH

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IMPORTANT

Your attention is drawn to the fact that recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

VHS Movie NV-M5

•The rating plate is on the rear panel of the unit. AC Adaptor VW-AM5 •The rating plate is on the bottom surface of the unit.

FOR YOUR SAFETY

DO NOT REMOVE OUTER COVER. To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

FEATURES

Piezo Auto Focus System

This innovative new Auto Focus System uses a fully camera-internal system consisting of a sophisticated nicroprocessor and a special piezo-element-controlled ocusing system. It continuously analyzes the focusing conditions and determines and adjusts the optimum ocus setting based on the picture information contained n the light that enters through the lens. For added versatility, the NV-M5 is also equipped with a 2-step ocusing zone selector that lets you preset the size of the measuring zone for the Auto Focus System to assure optimum adjustment in any kind of shooting situation.

The VHS Movie Uses Standard VHS Video Cassettes

The VHS Movie uses the same video cassette tapes as any VHS-system video recorder, thus assuring complete compatibility and allowing up to 4 hours recording on a single cassette (NV-E240).

Playback of Tapes

The VHS Movie offers not only camera recording but a ange of different playback functions as well: normal playback, Cue & Review and Still. Playback is possible in the built-in viewfinder or on a connected TV monitor in a TV set.

VHS Movie Camera

The VHS Movie is a tremendously versatile video system for both camera recording and playback in a single unit.

Compact, Lightweight and Superportable

Veighing only 2.5 kg (without battery pack), the VHS fovie is extremely lightweight and handy to use.

3-Way Power Supply

he VHS Movie can be operated on three different ower sources: rechargeable battery pack, AC adaptor r car battery cord.

Full Auto White Balance Adjustment Function

his function automatically adjusts the white balance ccording to the illumination of the scene that is being hot.

Operation Information Centre in the Electronic Viewfinder (EVF)

asy-to-see indications in the viewfinder inform you of le camera operating conditions during shooting, so you on't have to look away from the viewfinder. The idications include: Date, Time, Memory, Tape Counter, ecording and various warnings.

Rec Review Function

After you finish shooting a scene and tape is stopped in the pause mode, press the Rec Review Button. The tape will automatically rewind for a few seconds, and the end of the recorded scene will then be played back to let you confirm that the recording conditions are satisfactory.

6× Power Zoom Lens and Macro Feature

The power zoom lens allows smooth zoom-in and zoom-out shots and quick adjustment of the picture angle to anywhere from wide to telephoto.

Standby Function

Pushing the Standby Button during every stop in shooting lasting more than a few minutes, saves power and makes your battery pack last longer.

Recording of TV Programmes is Possible via a Line Adaptor (Optional)

By connecting a TV set equipped with separate video and audio output Sockets via the Line Adaptor (optional) to the VHS Movie, you can record a programme that is being received (and watched) on the TV set.

High Speed Shutter Function

When shooting fast-action events like sports scenes, selecting the high speed shutter offers special advantages. When later watching these recordings using the Super Still, Super Still Advance or Super Fine Slow Motion functions of an advanced type VTR, the result will be extremely stable pictures with superior sharpness and crisp edges.

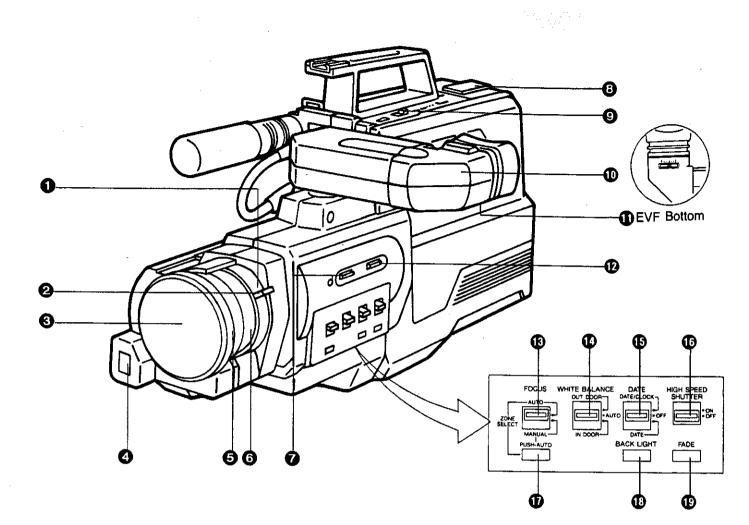
Audio Dubbing Function

The Audio Dubbing function of the VHS Movie makes it possible to replace the sound that was recorded during shooting by a new recording of narration, background music or special sound effects using either the built-in or an external microphone.

HQ (High Quality) Picture System

Video recorders carrying the HQ symbol mark feature the new VHS High Quality Picture System. This system assures complete compatibility with VTRs that use the conventional VHS system.

CONTROLS AND COMPONENTS



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	Eyepiece Corrector Control Rec Review Button (REC REVIEW) Focus Mode Selector (FOCUS) White Balance Mode Selector (WHITE BALANCE) Date Function Selector (DATE) High Speed Shutter Selector (HIGH SPEED SHUTTER) Focus Adjusting Button/Zone Selector (PUSH AUTO) Back Light Button (BACK LIGHT)

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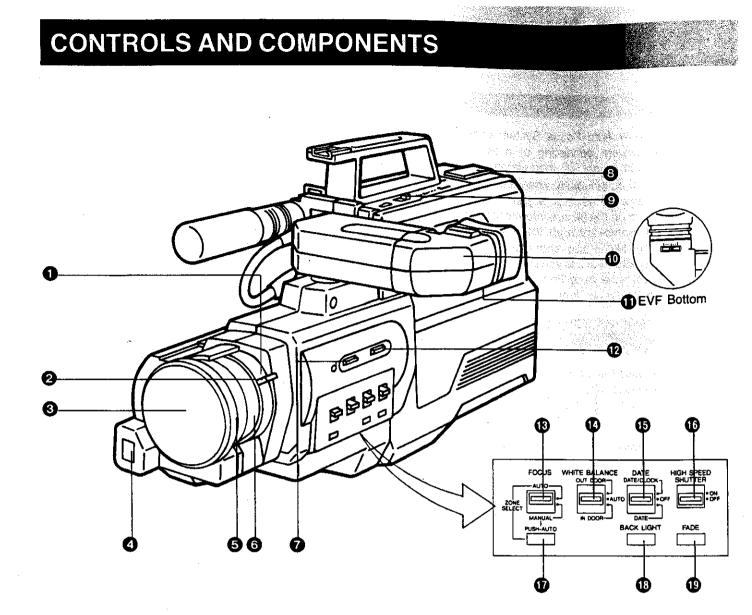
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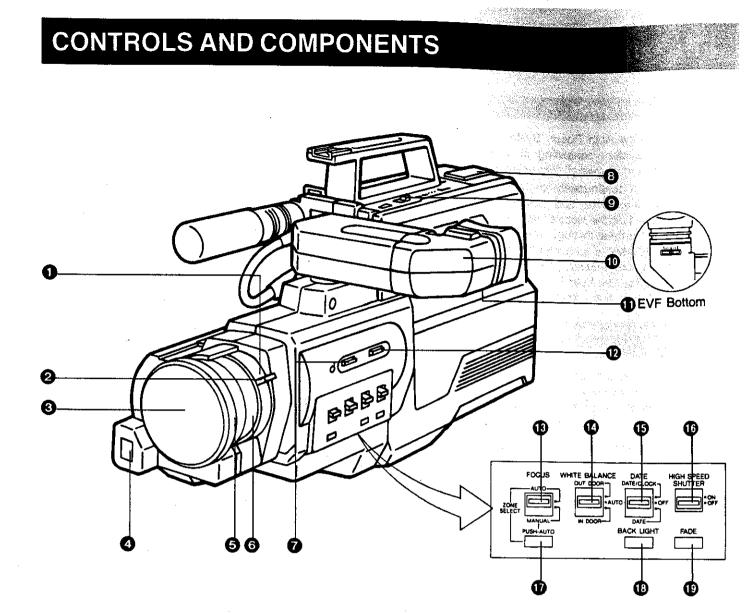
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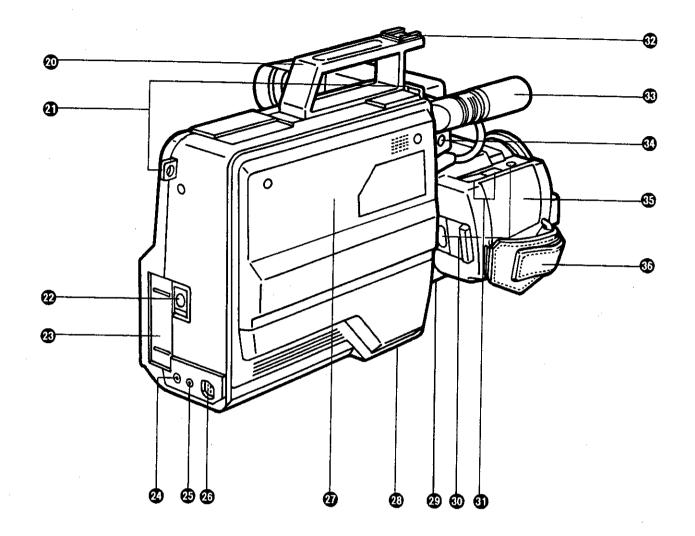
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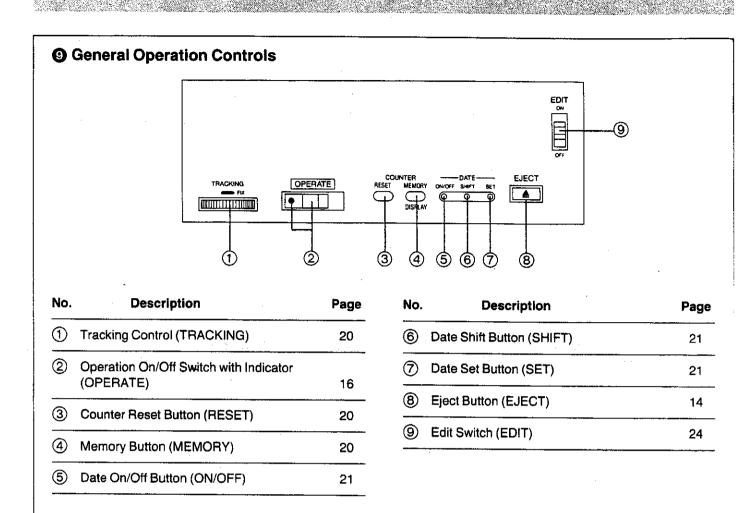
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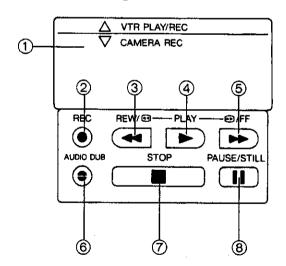
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Tape Running Buttons



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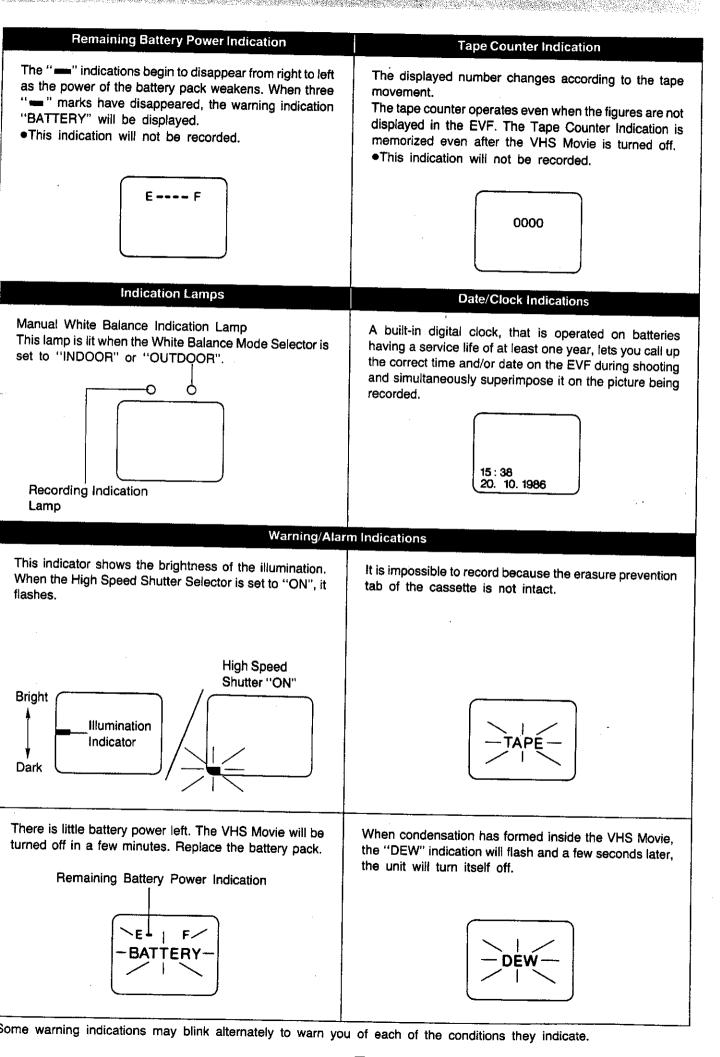
(1) Function of the Camera/VTR Operation Selector Cover

Before starting camera recording, slide this cover close to conceal the Tape Running Buttons and render them inoperative.

For playback, audio dubbing, tape copying and other VTR operations, open this cover. This renders the Start/Stop Button and other operation controls for camera recording inoperative.

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The following indications are displayed in the Electronic Viewfinder (EVF) to inform you of the operating conditions of the VHS Movie.



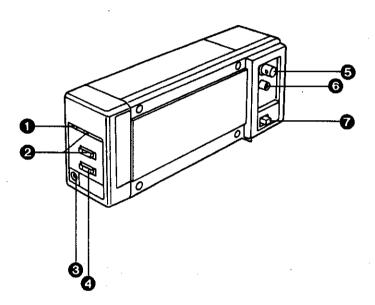
AC Adaptor (VW-AM5)

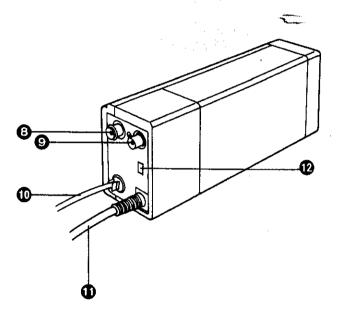
Precautions

- •Avoid violent shocks and rough handling of the unit.
- •Do not allow liquid to spill into the unit.
- Do not block or cover the ventilation slots on the top and side of the unit, especially by soft material such as cloth or paper.
- •Do not place heavy objects on the unit.

- and the second secon
- •When unplugging the mais cord or other connection cords, be sure to grasp the plug, not the cord.
- •When listening to a radio while the VW-AM5 is in operation, the radio reception may be distorted. In thi case, move the VW-AM5 away from the radio.

Controls and Components





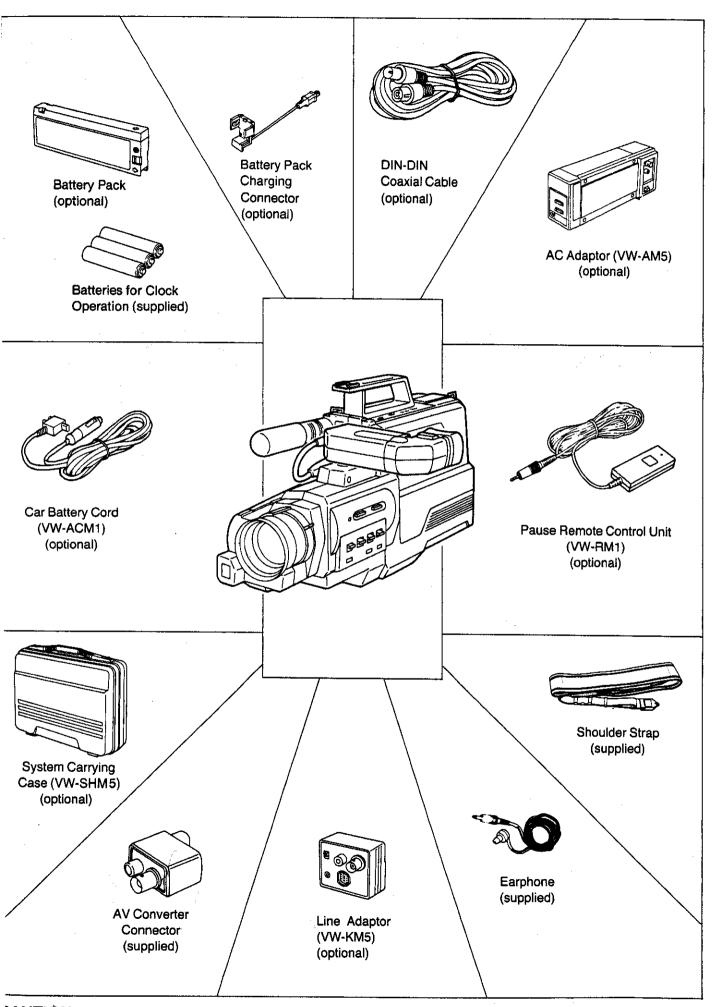
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VHS MOVIE SYSTEM

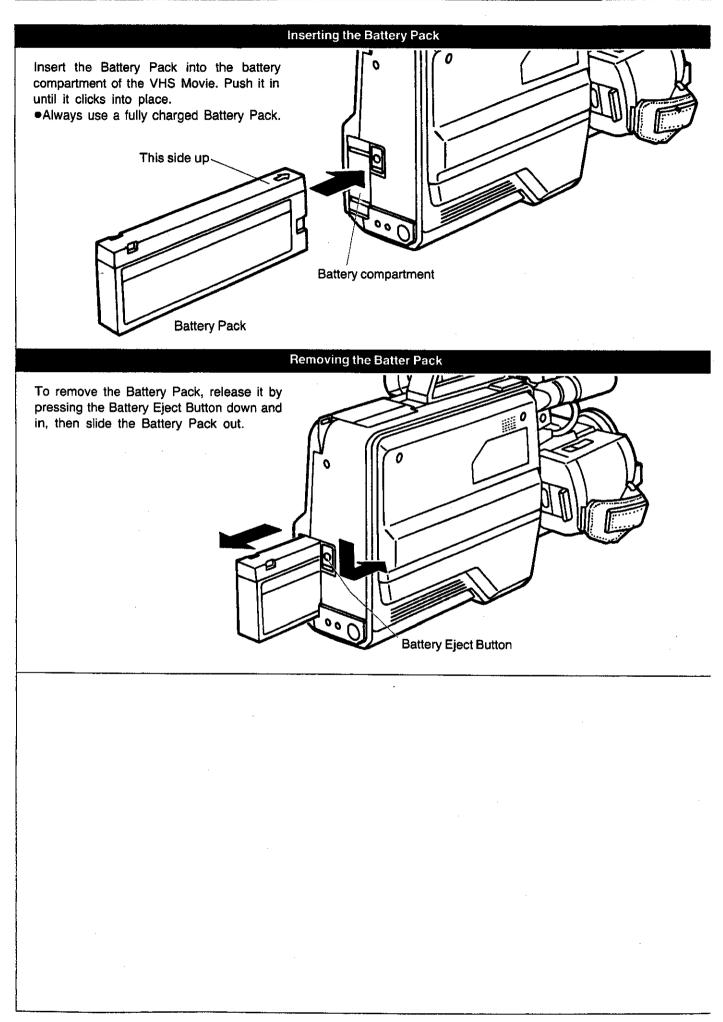


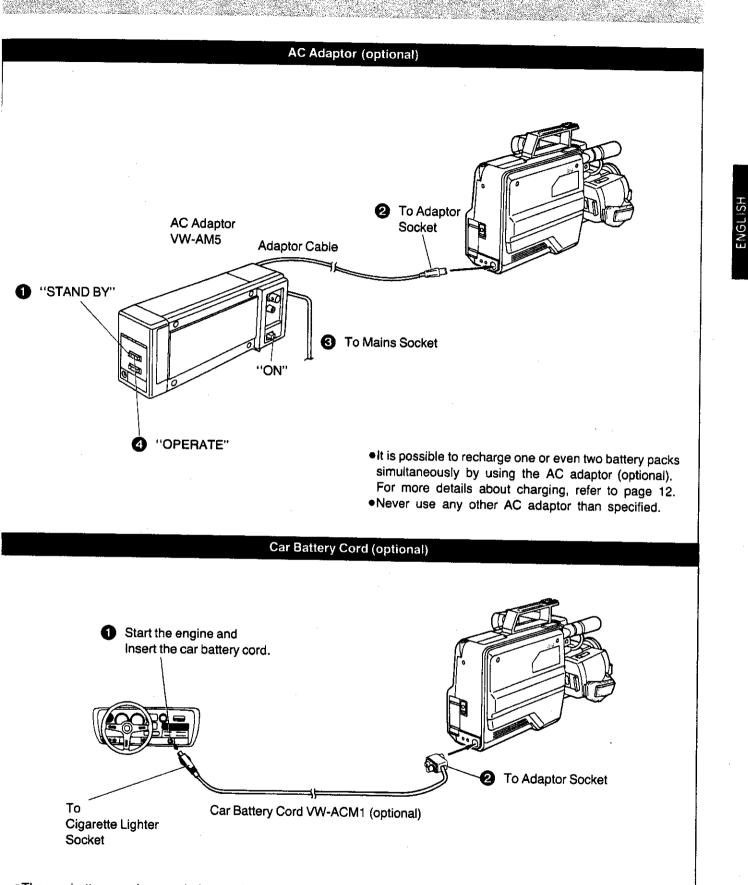
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AUTION: TO PREVENT FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

POWER SUPPLIES

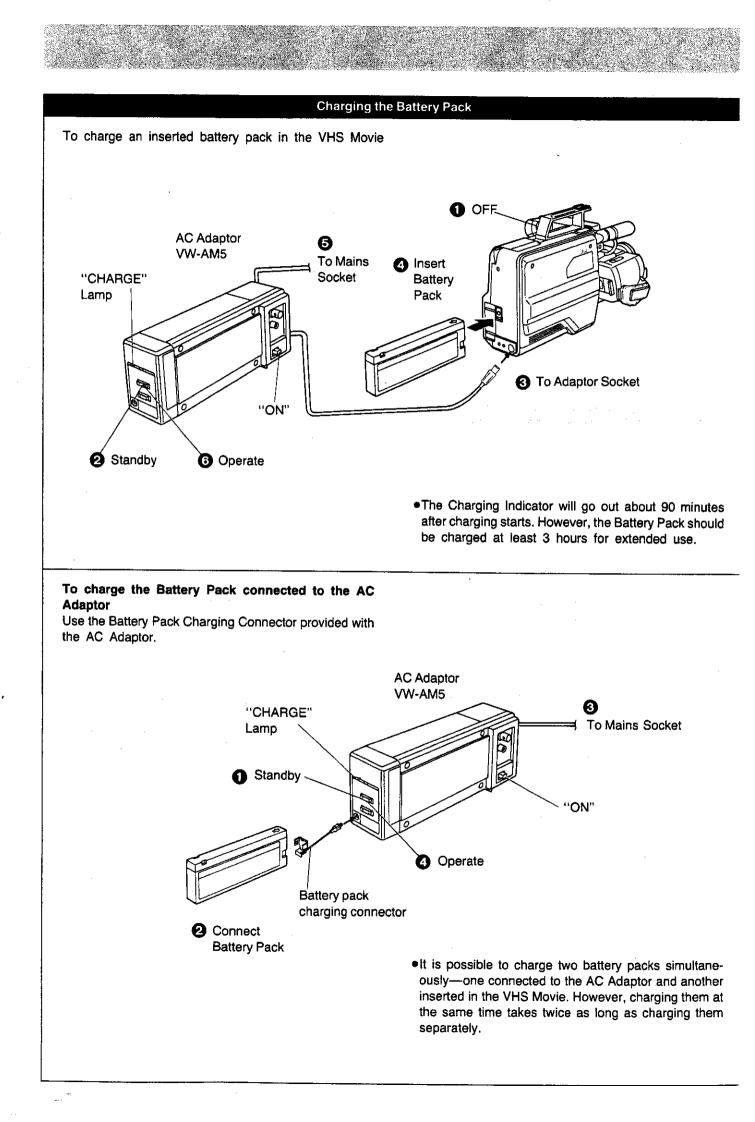




- •The car battery cord can only be used with 12 V DC negative-grounded vehicles. 24 V DC or positive-grounded vehicles can not be used.
- •The car engine must be kept running while the VHS Movie is powered by the car battery.

If the supplied power from the vehicle drops too low, the VHS Movie will turn off automatically to prevent any malfunctioning. When this happens, wait about 10 seconds before switching the VHS Movie on again.
It is not possible to recharge the battery pack by using

the vehicle's battery and/or the car battery cord.



Operating Time with the Battery Pack

- •This VHS Movie can record continuously for approx. two hours at normal temperatures (25°C) with a fully charged battery pack (optional).
- If the VHS Movie is used for recording intermittently or at low temperatures, the total possible recording time will be reduced. It is recommended to turn off the VHS Movie or switch over to the standby mode when not actually recording.
- •Never use an insufficiently charged or exhausted battery pack. If you use such a battery pack, voltage drops during recording or playback will cause the VHS Movie to be switched off to protect the battery pack and the VHS Movie itself.
- •The battery pack can become exhausted not only during recording and playback, but also when it is in the standby mode for long periods of time. It is recommended to carry battery packs along which will last two or three times the intended recording duration.

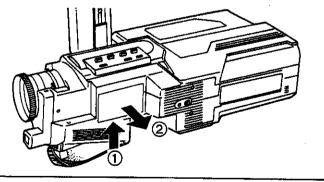
To Extend the Battery Life

- 1. Be sure to recharge the battery pack soon after use. If the battery pack is left in discharged condition for a long period of time, it may not be possible to recharge it.
- 2. Be sure to recharge the battery pack before use. If the battery pack was stored for a long time after recharging it, the battery level may be reduced and the operation time could be shortened.
- 3. Be sure to recharge the battery pack once every six months even if it is not used.
- 4. To protect the battery pack, avoid recharging it for more than 24 hours.
 Do not overcharge nor completely discharge battery packs.
- 5. Store it in a dry and cool place.

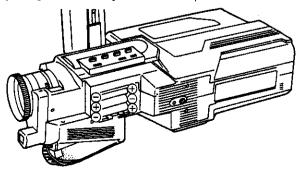
How to Insert the Batteries for the Clock Operation

Three IEC "R03" size batteries (supplied) are necessary for the operation of the built-in digital clock, and to memorize the Date/Clock and the Tape Counter Indications when the VHS Movie is turned off.

Remove the lid on the bottom of the VHS Movie.



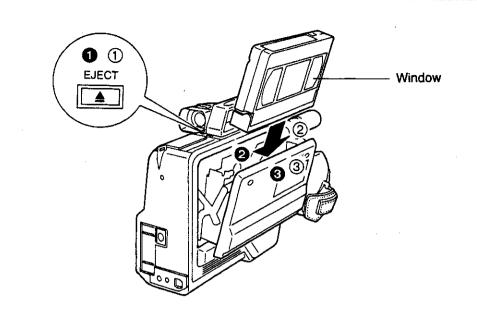
Insert the three batteries with their polarities (⊕ and ⊖) aligned correctly and then replace the lid.



CAUTION FOR BATTERY REPLACEMENT

- •The life of the batteries is about one year, however, it depends on the frequency of use. Inspect and if necessary, replace the batteries once a year.
- •Load the new batteries with their polarities (\oplus and \oplus) aligned correctly.
- •Do not apply heat to batteries, or internal short-circuit may occur.
- Remove spent batteries immediately and dispose of them.
- •Do not use an old and a new batteries together. (Also never use an alkaline battery with a manganese battery.)

THE VIDEO CASSETTE



Inserting a Video Cassette

Press the Eject Button.

- 2 Insert the video cassette into the cassette holder with its window facing outside and the arrow mark pointing downward.
- 3 Push the cassette holder (near its front end) inward, until it locks with a click.
- •Use VHS video cassette only.
- When a power supply unit (Battery Pack, AC Adaptor or car battery) is connected to the VHS Movie, the Eject Button remains operative, even if the VHS Movie has been switched off with the Operation On/Off Switch.

Erasure Prevention Tab

Removing a Video Cassette

- 1 Press the Eject Button.
- 2 Pull out the video cassette.
- ③ Push the cassette holder (near its front end) inward, until it locks with a click, to close the cassette compartment.

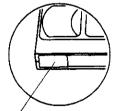
To prevent accidental

erasure



Break off the tab with a screwdriver.

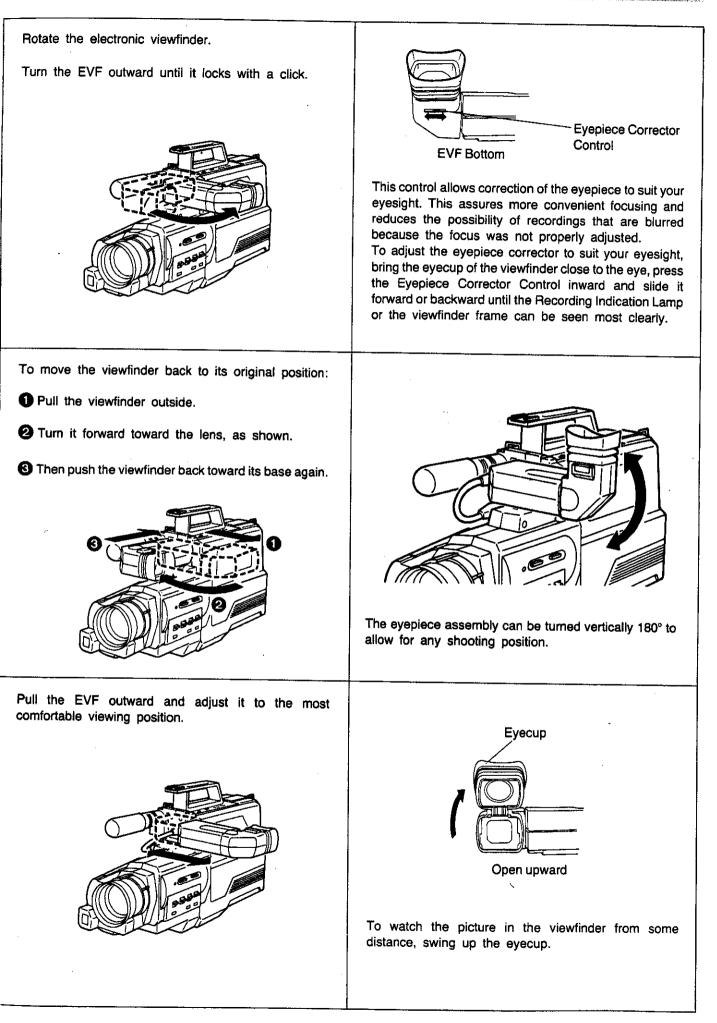
To record again



Cover the hole with adhesive tape

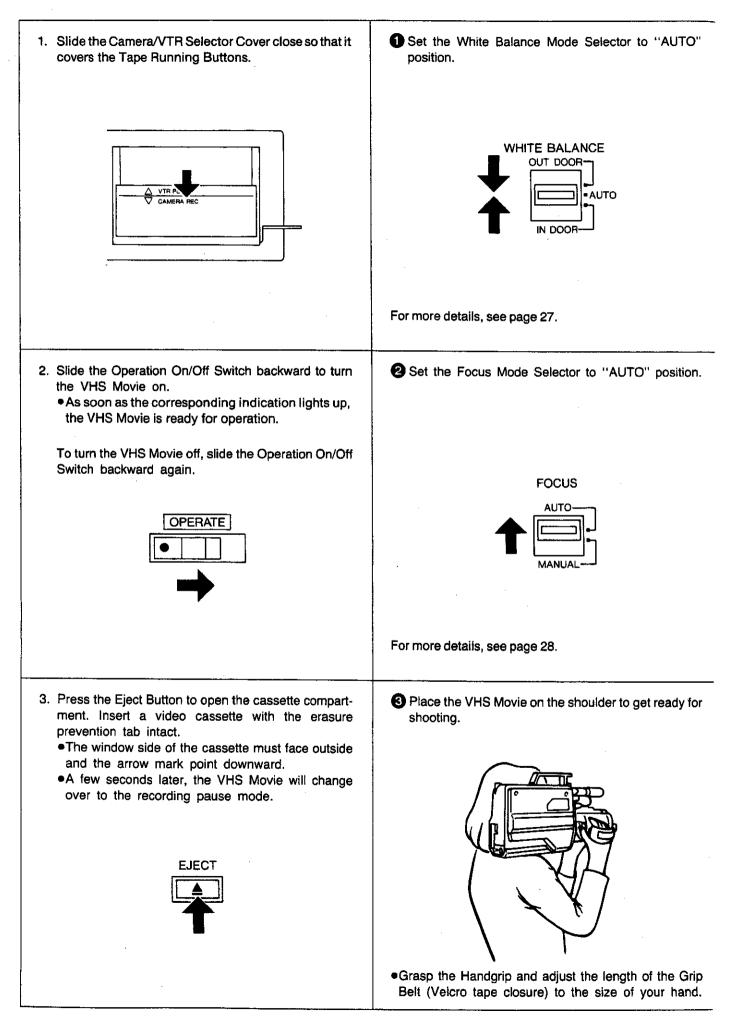
ELECTRONIC VIEWFINDER

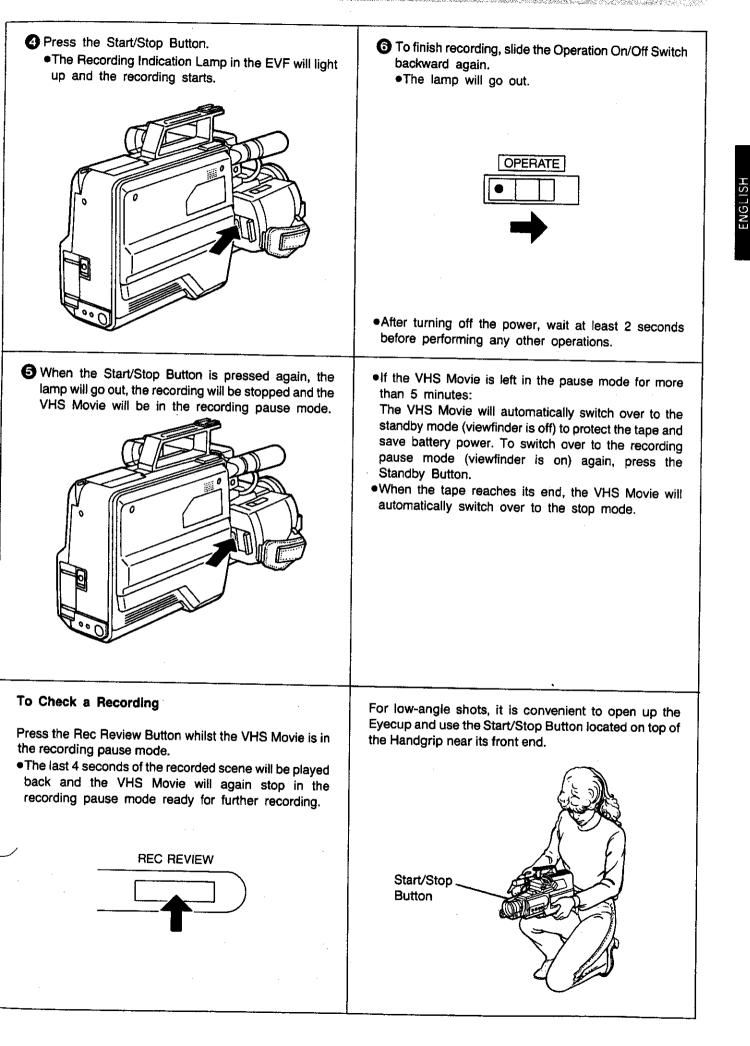
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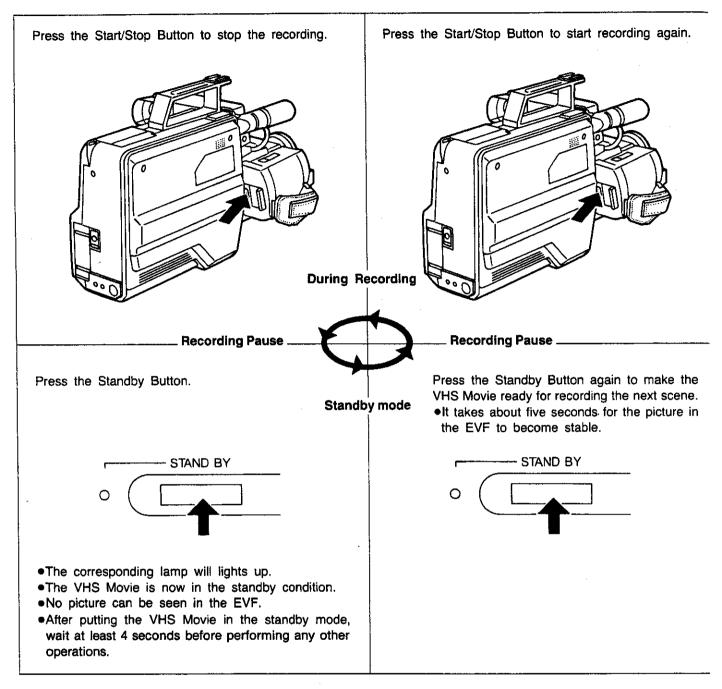
CAMERA RECORDING







Standby Function To save power and extend the life of the battery pack when the recording pause duration is longer than a few minutes



Note: To turn the VHS Movie off when it is in the standby mode, press the Standby Button again before turning the VHS Movi off with the Operation On/Off Switch.

PLAYBACK VIA THE EVF

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Preparation

- 1. Slide the Operation On/Off Switch backward to turn the VHS Movie on.
- 2. Slide the Camera/VTR Selector Cover open so that the Tape Running Controls become accessible.
- 3. Insert the recorded video cassette.
- 4. For Playback via a TV set, see "CABLE CONNEC-TIONS" on pages 22 and 23.
- 5. Make sure that the Edit Switch is set to "OFF".

Cue & Review Playback

When the Fast Forward or Rewind Button is kept pressed whilst the VHS Movie is in the plavback mode, the tape will be played back in forward or reverse direction at about 3 times normal playback speed.



normal playback, press this button again.

●/FF

Fast Forward

Press the Fast Forward/Cue Button to wind the tape forward rapidly.

•The tape will rewind automatically when it reaches the end.

Rewind

Playback

Press the Rewind/Review Button to rewind the tape, •The tape will stop automatically at the beginning of the tape.

PD/FF

REW/⊡



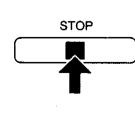
When the VHS Movie is in the playback mode, press the

Pause/Still Button to view a still picture. To continue the

If you leave the VHS Movie in the still playback mode for more than 5 minutes, it will automatically switch over to the stop mode, to protect the tape and the video heads.

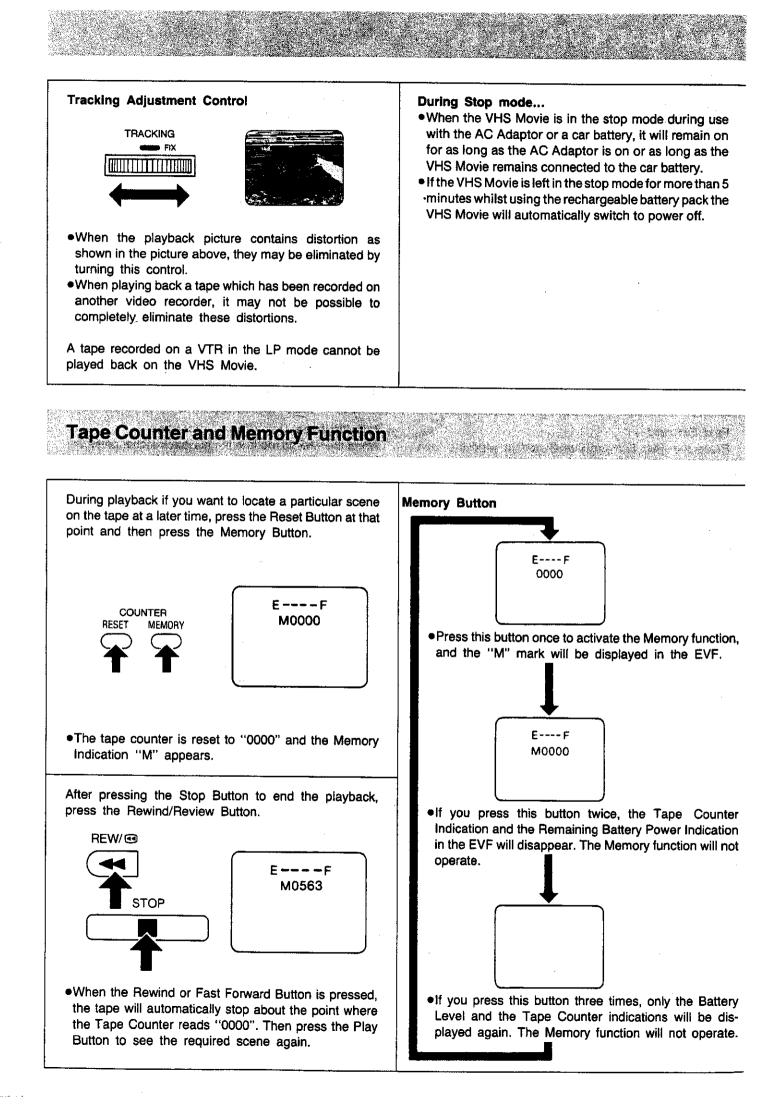
To Finish Playback Press the Stop Button.

Still Playback

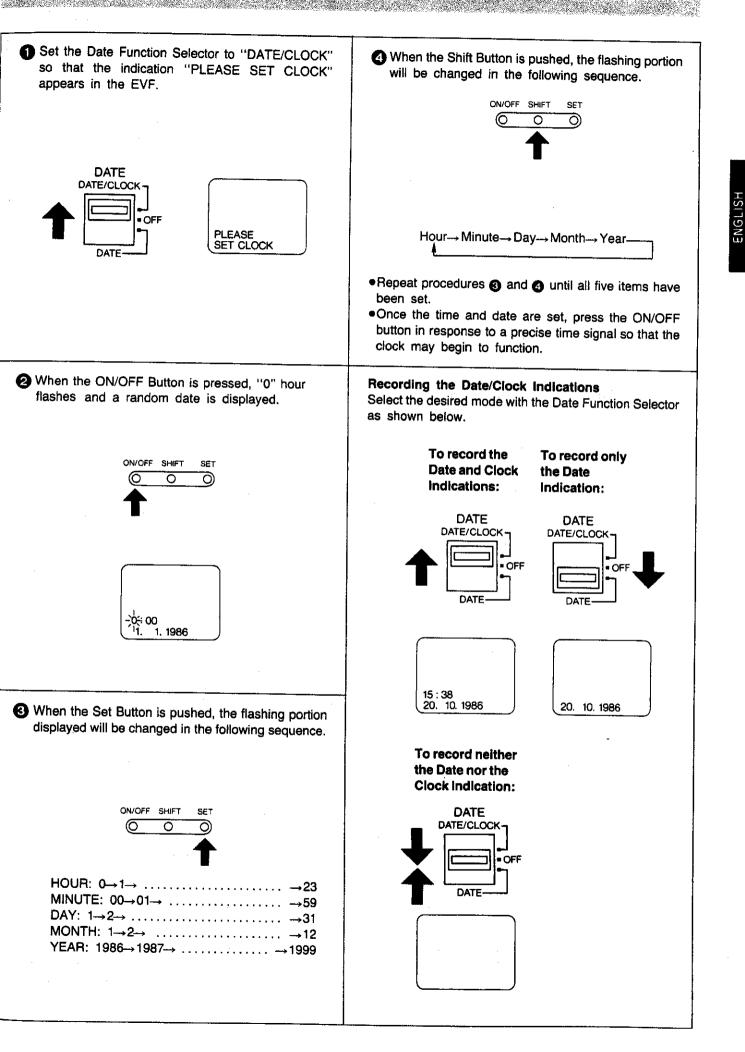


Press the Play Button.

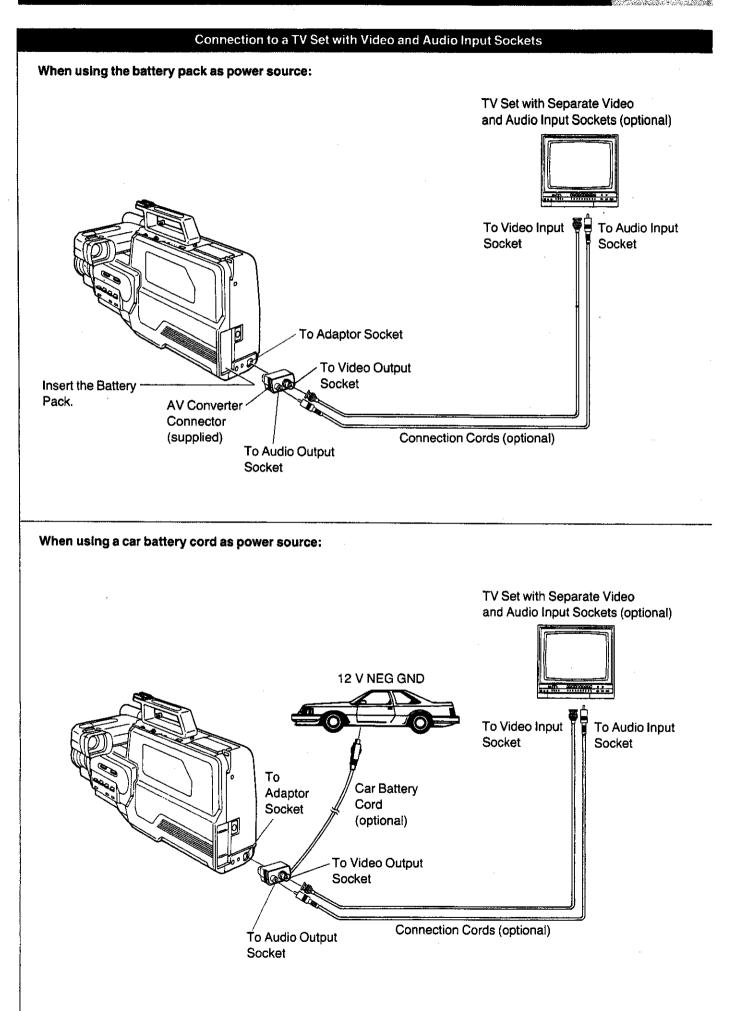


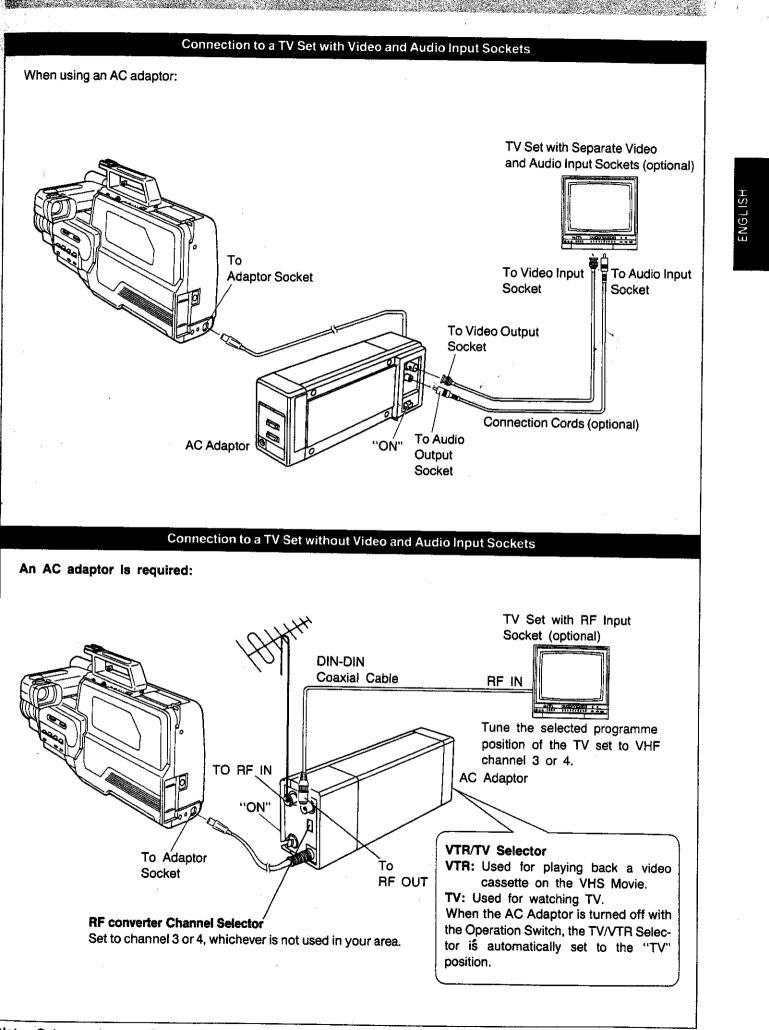


Setting of the Date and Clock & Recording the Date/Clock Indications



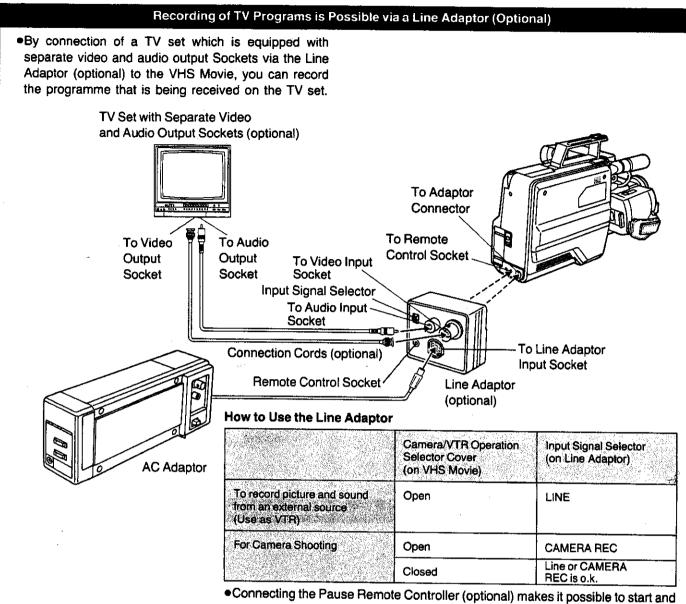
CABLE CONNECTIONS





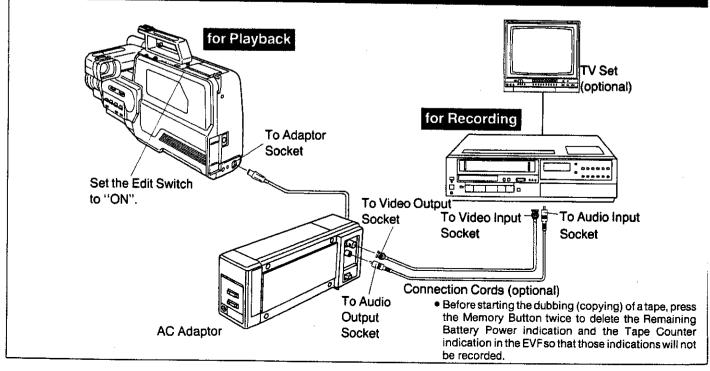
Note: Only use the specified adaptors for the above connections.

RECORDING FROM A TV BROADCAST/DUBBING

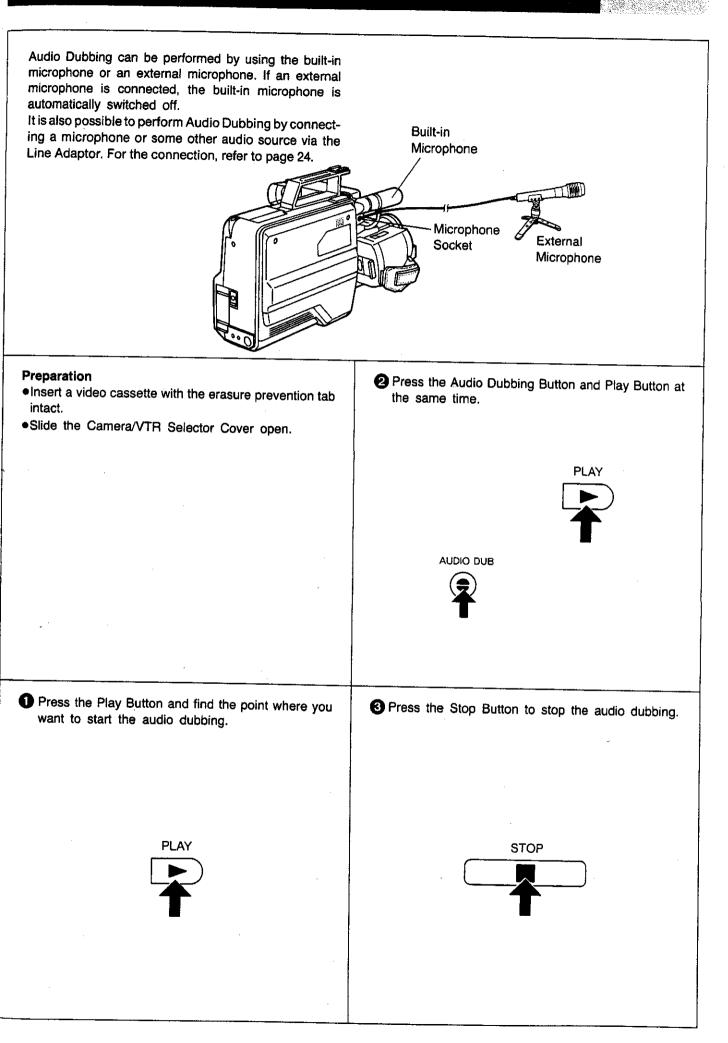


stop recording of picture and sound from some distance.





AUDIO DUBBING



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ASSEMBLE EDITING



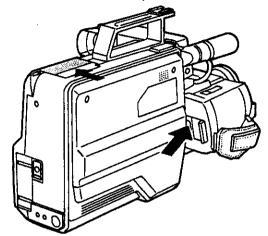
PAUSE/STILL



Button.

- Insert a video cassette with the erasure prevention tab intact.
- •Slide the Camera/VTR Selector Cover open.
- 3 Assemble Editing Camera Recording

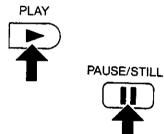
Slide the Camera/VTR Selector Cover closed, and then press the Start/Stop Button.



Assemble Editing Recording from another VTR...

REC

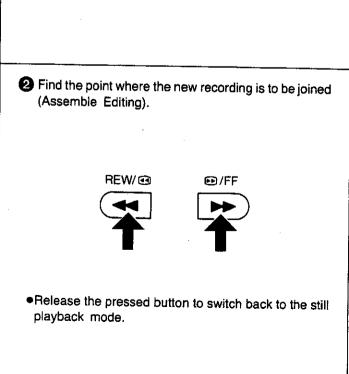
Press the Record Button and Play Button at the same time.



1 Press the Play Button, and then press the Pause/Still

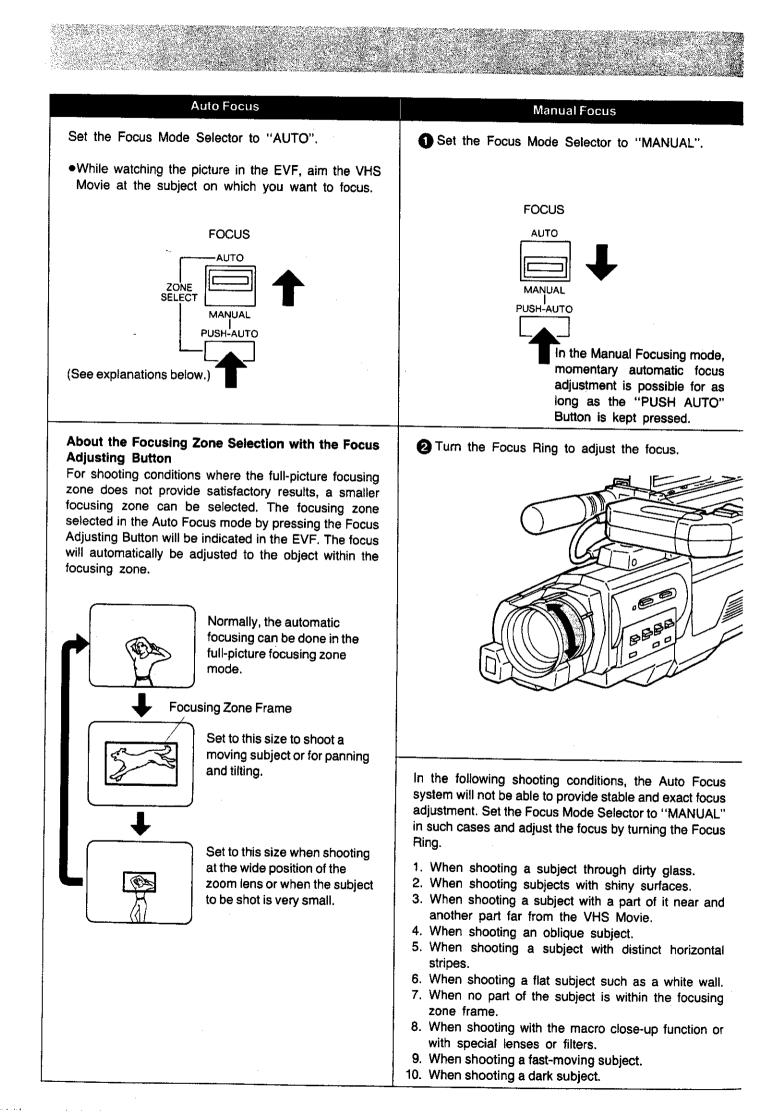
•Press the Pause/Still Button to start the Assemble Editing recording.

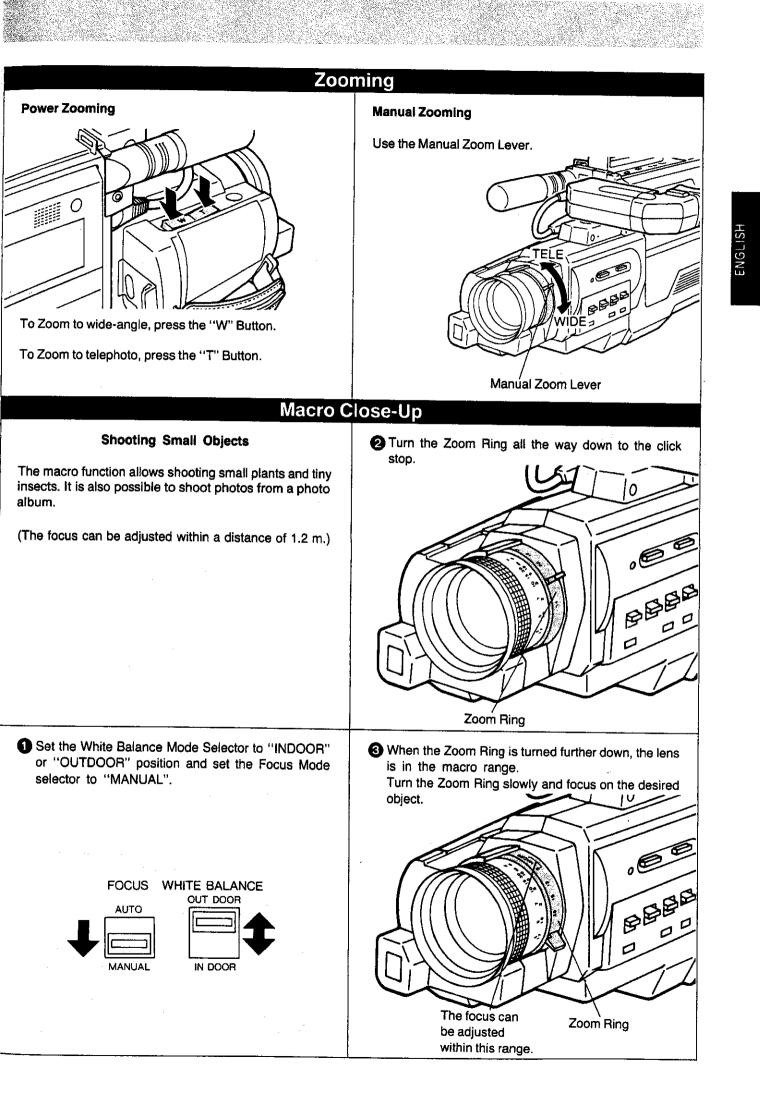
•If the recording pause continues for more than 5 minutes in the VTR Assemble Editing mode, the VHS Movie will switch over to the standby mode to protect the video heads and the tape.



TECHNIQUES FOR SHOOTING

White	Balance
The VHS Movie, like any other video camera, responds differently to the colours depending on the weather and the time, even under seemingly same sunlight. The adjustment necessary to assure natural colour rendition is called "white balance adjustment".	 Cautions for Use of the Auto White Balance Adjustment Mode In the Auto mode, the sensors built into the front of the VHS Movie detect the colour temperature of the illumination of the scene and automatically adjust the white balance. In the following shooting conditions, the Auto mode may not provide exact white balance adjustment. 1. When the illumination of the subject is different from the light that falls on the VHS Movie. 2. When either the VHS Movie or the subject is in the
	 shade. 3. When extremely bright light sources are used, such as mercury-vapor lamps, natrium lamps or some types of fluorescent lamps.
"AUTO" positionThe white balance is automatically adjusted as the illumination changes. WHITE BALANCE OUT DOOR UT DOOR AUTO IN DOOR	 When the illumination is not bright enough (if the brightness on the sensor window is less than 3 lux). When the scene has strong red-coloured illumination, e.g. during sunrise and sunset. When intensive light hits only the red or the blue light sensor in the window. When there is some other light source that is outside the sensing range of the white balance adjustment sensors, e.g. snowy landscape, cloudy weather, incandescent light and candle light. When there is some object placed in front of the sensor window that prevents light from reaching it. When shooting in the macro range, the Auto mode does not operate. Therefore, use the "INDOOR" or "OUTDOOR" position.
In certain cases, the use of the preset positions is recommended: "INDOOR" When shooting under the light from in- candescent light bulbs or halogen lamps.	
"OUTDOOR" When shooting outdoors under the sun- light.	





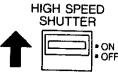
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	Lighting	Overriding the Iris Control		
Outdoor		Shooting a backlit subject		
 Choose a camera position with the sun in your back, so that the sunlight falls evenly on the subject and makes for a better picture. 		To compensate for backlighting, keep this buttor pressed.		
the strong	ible to shoot under low light levels. However, ger a subject is lit (up to approx. 2000 lux), the e picture obtained.			
	*			
(iux)	Standard Values of Brightness	Fade-in and Fade-out		
10-15	●Candle-light	Fading out a scene to black is possible by keeping the		
400-500	Office with fluorescent lamps	Fade Button pressed, and fading in from black is operated by releasing this button.		
500-700	Department store counter			
1000	Sunlight one hour before sunset, clear day	Fade In		
2000	 Sunlight one hour after sunrise, cloudy day 			
25000	•Sunlight at 10 AM, cloudy day			
32000	•Sunlight at noon, cloudy day	Fade Out		
	•Sunlight at 3 PM, clear day	FADE		
35000				
35000 65000	 Sunlight at 10 AM, clear day 			

When shooting fast-action scenes, which you will later • The for want to play back on a VTB equipped with super Still

want to play back on a VTR equipped with super Still, Super Still Advance and Super Fine Slow Motion playback functions, set the High speed Shutter Selector to "ON". This will assure that even fast-moving objects will be reproduced with extremely sharp and clear edges in these special playback functions. functions.

For shooting normal scenes and when the VTR to be used for playback is not equipped with these "Super" playback functions, set the High Speed Shutter Selector to "OFF".

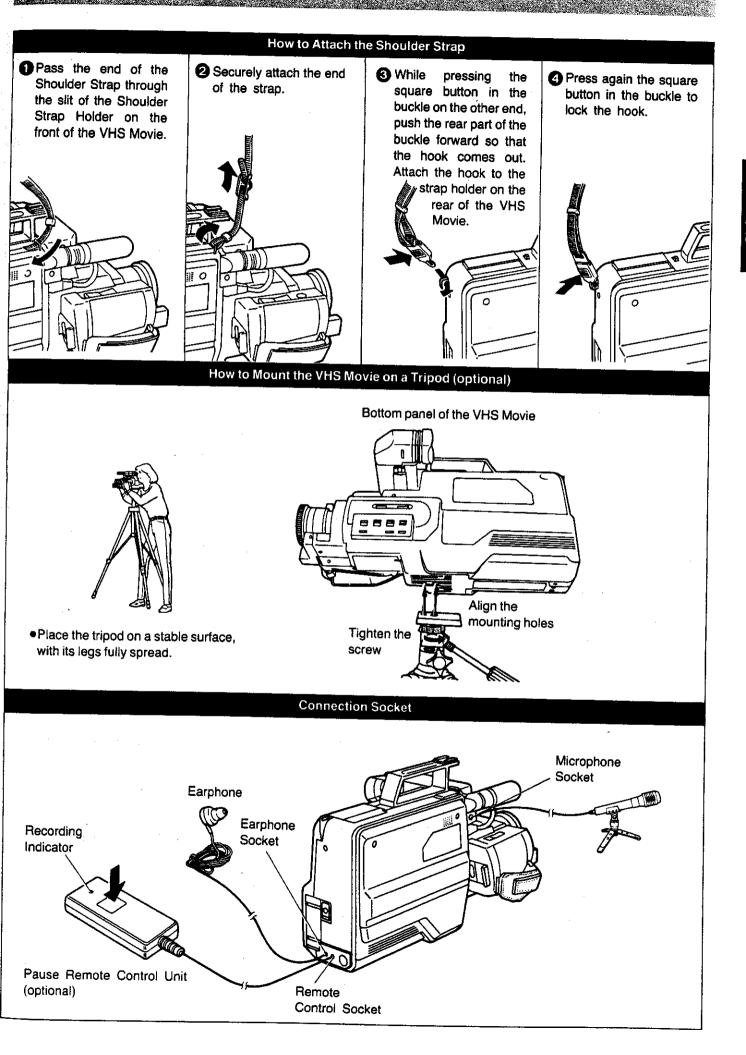


 The following conditions are required for shooting with the High Speed Shutter function: The subject must be brightly lit, with little shade, under

sunlight or some other illumination of more than 300 lux.

- If shooting under the illumination produced by flourescent lamps, the picture will be adversely influenced by flickering.
- If the picture is played back in the normal playback mode, the movements may appear to be not very smooth.
- The playback picture will be slightly darker than the picture recorded without using the High Speed Shutter function.
- The Back Light Button may be inoperative during shooting with the High Speed Shutter function.

Accessories



	V	ie	eo	He	ad	CI	og	gi	ng	
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The video heads are the means by which the recorder places picture signals on the tape during recording, and reads picture signals from the tape during playback. If these heads become dirty and clogged from long use, the signals can no longer be recorded correctly, and the playback picture will be distorted accordingly. This is the case, for example, during the playback of a tape, the sound of which is reproduced normally, but no picture is seen, or the picture is greatly distorted. When such symptoms occur, have the VHS Movie checked by qualified service personnel.

If Condensation Forms Inside the VHS Movie

Condensation (dew) forms when warm air comes in contact with a cold object, for example on a window in a heated room in winter.

Condensation may form in the VHS Movie and damage the tape and the video heads, if:

- The VHS Movie is in a room where the heater has just been turned on.
- •The VHS Movie is in a room with steam or high humidity.
- •The VHS Movie is brought from cold surroundings into a well-heated room.
- •The VHS Movie is suddenly brought from cool surroundings, such as an air-conditioned room or car, to a place which is hot and humid.
- •When condensation has formed inside the VHS Movie, the "DEW" indication in the EVF will flash and a few seconds later, the unit will turn itself off to protect the tape and the video heads. Wait about 1 hour before operating the VHS Movie again. Should a video cassette be inside the machine, turn the VHS Movie on again and quickly remove the tape. If the operation lamp flashes, wait for a further period of time. Depending on the surrounding conditions, it may take several hours before the VHS Movie can be used again.
- As condensation forms gradually, it may take about 10-15 minutes before the VHS Movie turns itself off after a change of working environment.
- In an extremely cold place, condensation may freeze and turn into frost. In this case, it may take quite some time for the frost to melt, turn into dew and evaporate.
- •When you bring the VHS Movie from a very cold place, e.g. the ski slopes, into a heated room, keep it in a tightly closed plastic bag or similar to prevent condensation forming inside the unit.
- •The VHS Movie has a built-in heating device which prevents condensation.

This heater operates even if the VHS Movie is switched off (provided the AC adaptor is used as power supply).

Keep the VHS Movie away from Oily Smoke and Steam

Never use or leave the VHS Movie in places where there is oily smoke or steam.

Protect the VHS Movie from Humidity and Dust

Avoid places with high humidity or much dust levels. Keep the VHS Movie in a well-ventilated place to prevent mildew from forming on the lens.

Operating Temperature

Use the VHS Movie under conditions where the temperatures are between 0°C and 40°C, and where the humidity is between 10% and 80%. To avoid deformation of the outer case or other damage, do not leave it exposed to direct sunlight for any length of time also never leave it behind in a closed automobile.

Keep the VHS Movie away from Heaters

Keep the VHS Movie away from heaters to protect the body and internal parts.

Keep the VHS Movie away from TV sets

Do not place the VHS Movie near a TV set because it might impair the picture and sound quality of the recorded tape, and/or adversely affect the performance of the unit.

Keep Magnets Away.

Never bring a magnet or magnetized object such as fluorescent lamps, motors, electric clocks and battery operated toys etc. close to the VHS Movie because this could adversely affect its performance.

Keep the VHS Movie Away From Areas with Strong Electric Fields	Proper Illumination for Shooting	
The picture may become distorted, when the VHS Movie is used in places with strong electric fields, such as near TV or radio antennas.	Shooting should be done under lighting as bright as possible to obtain the best colour pictures. Fluorescent lamps tend to give natural colours an unnatural tint, so choose suitable lighting.	
Never put any Objects Inside	Cover the Lens with the Cap after Shooting	
Never insert any object other than a video cassette into the VHS Movie. If any object is dropped into it or if any liquid is spilled into it, consult qualified service person- nel. Operating it with some foreign matter inside may	Disconnect the cables from the VHS Movie after you finish shooting and be sure to place the lens cap on the lens.	
cause fire or electric shock.	Keep the VHS Movie Away from Strong Light	
No Fingers Inside	Do not expose the VHS Movie to strong light, because the heat from it may cause deformation or other damage.	
Touching internal parts of the VHS Movie is very dangerous and may cause serious damage to the VHS Movie. Do not attempt to disassemble it. For internal	Transporting the VHS Movie	
inspection, adjustment or repairs, consult qualified service personnel.	 Take care not to bump the VHS Movie against any object. 	
In Case of Accident	 Remove the cassette tape from the VHS Movie before transporting. 	
Do not use the VHS Movie, if it emits smoke, strange noises or odours.	When the VHS Movie is not Being Used	
Have it checked by qualified service personnel and repaired, if necessary.	Remove the video cassette and turn the VHS Movie off with the Operation Switch.	
Operation at the Beach	Battery Pack	
Take care not to splash any water on the VHS Movie and protect it from sand.	Be sure to recharge the battery pack soon after use.	
Operation in the Rain	Keep Insecticide Spray Away	
Take care that the VHS Movie does not get wet.	Never spray things like insecticide on the lens and body of the VHS Movie. Also, never leave rubber or vinyl	
Do not Use the VHS Movie in a Thunderstorm	objects in contact with any part of it for a long time, because the colour might change and the body surface	
Stop operating the VHS Movie when a thunderstorm approaches.	might be damaged.	
Handle with Care		
Never drop the VHS Movie or expose it to strong physical shocks. Shocks during use may result in abnormal operation and performance.		
Smear Appearance		
Smear (vertical bright stripe) may appear on the screen when the camera is aimed at the spot lights or bright lights, and light reflecting objects. The smear is peculiar characteristic of CCD device. It is recommended that objects of camera operation should be taken care.	·	

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Connection to other Equipment

Carefully read the operating instructions for all equipment to be connected. Keep these operating instructions handy for future reference.

Never place the VHS Movie with the cassette compartment side facing down

Never use the VHS Movie with the cassette compartment facing down as this might cause uneven winding and slacking of the tape.

Cleaning the VHS Movie

- •The body of the VHS Movie is made of plastic materials. Never use benzine, thinner or other chemicals for cleaning, because the colour might be changed and the case surface might be damaged.
- •Wipe the case and operation panel with a soft, clean cloth. For persistent stains, use a cloth moistened with mild detergent and water, and then wipe with a dry cloth.
- •Clean the lens only with a blower brush (used for photo cameras) or a special lens cleaning tissue (used for glasses and cameras).

Video Cassette Tapes

- •Keep the video cassettes away from places with direct sunlight, strong heat, high humidity and high dust levels.
- •Keep the video cassettes away from magnetized objects as they could adversely affect the tape.
- •Never drop the video cassettes or subject them to other strong physical shocks.
- •To store a video cassette, put it back into its case and place it upright.

BEFORE REQUESTING SERVICE

SYMPTOM	CAUSE	REMEDY	
	Power Source		
Power does not turn on.	Safety devices are operating.	After turning the power off, disconnect the mains cord of AC Adaptor and then plug it i again.	
	The VHS Movie is in the standby mode.	Press the Standby Button.	
Power turns on, but it turns off again immediately.	Battery pack is exhausted.	Use fully recharged battery pack.	
	Condensation has formed in the VHS Movie.	Wait until the dew disappears.	
	Camera Recordin	g	
Power is on, but no picture appears on the EVF.	VHS Movie is in the standby mode.	Press the Standby Button.	
	Lens is covered with the lens cap.	Remove the lens cap.	
Camera recording cannot be performed.	The tab of the cassette is broken out.	Cover tab hole with adhesive tape.	
Colour is not proper when using the TV as a monitor.	TV set is not properly tuned.	Properly tune the TV set.	
	White balance is not properly adjusted.	Adjust the white balance.	
	Illumination is not sufficient or of good colour temperature.	Use proper illumination.	
Picture is blurred.	Lens is covered with dust.	Clean the lens.	
	Subject is not in focus.	Focus the subject.	
	Playback		
No playback picture is reproduced on the TV set.	Connection with TV set is not correct.	Connect the VHS Movie to the TV set correctly.	
	TV set is not tuned to the video playback channel.	Tune TV set to the video playback channel.	
Colour is not correct.	White balance was not properly adjusted during shooting.	Adjust the white balance before shooting.	
Playback picture is not in colour.	Tracking is misaligned.	Align the tracking precisely.	
Playback picture has large amounts of "snow".	Video heads are clogged with dirt.	Consult qualified service personnel.	
Amounts of anow .	Video heads are abraded.	Consult qualified service personnel.	
	Tape is old.	Use new tape.	

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SPECIFICATIONS

NV-M5AM

Power Source:	DC 12 V		
Power Consumption:	Recording mode; 12 V-7.9 W (Battery Operation)		
	Stand-by mode; 12 V-1.0 W (Battery Operation)		
Video Recording System:	4 rotary heads, helical scar		
Tape Speed:	23.39 mm/s	ining system	
Tape Format:			
Recording/Playback Time:	240 min. with NV-E240		
FF/REW Time:	Less than 12 min. with NV	-E180	
VIDEO			
Television System:	CCIR; 625 lines, 50 fields	PAL colour signal	
Modulation System:	Luminance; FM azimuth re	ecording	
	Colour signal: Converted subcarrier phase shift recording		
Output Level:	ADAPTOR (Multi);	1.0 Vp-p	75 ohm unbalanced
AUDIO			
Input Level:	MIC IN (M3);	70 dB	4.7 kohm unbalanced
Output Level:	ADAPTOR (Multi);	8 dB	600 ohm unbalanced
Audio Track:	1 track (MONO)		
Image Sensor:	1/2-inch CCD Image Sens		
Lens:		MACRO Function, Auto Iris,	
· · · ·	Auto focus System F1.2 (S		ameter 49 mm
Viewfinder:	² / ₃ -inch Electronic Viewfind	der	
Standard Illumination: Minimum Required	1,400 Lux		
Illumination:	10 Lux		
Video Horizontal Resolution:	Colour; More than 250 line	es	
Signal-to-Noise Ratio:	Video; More than 43 dB		
	Audio; More than 43 dB		
Audio Frequency Response:	80 Hz–8 kHz		
Operating Temperature:	0°C-40°C		
Operating Humidity:	10%-80%		
Weight:	Approx. 2.5 kg (without bat		
Dimensions:	97 (W)×181 (H)×398 (D)		
	With viewfinder turned dow	vn (without carrying handle)	

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

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