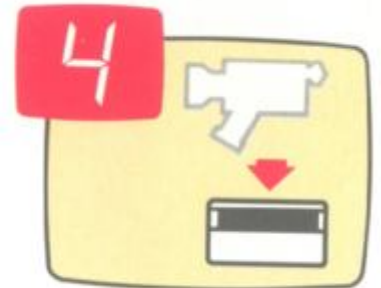
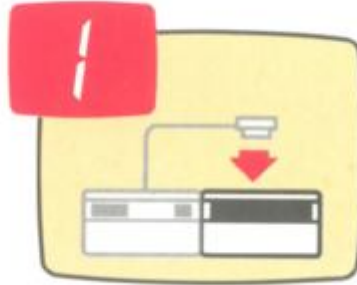


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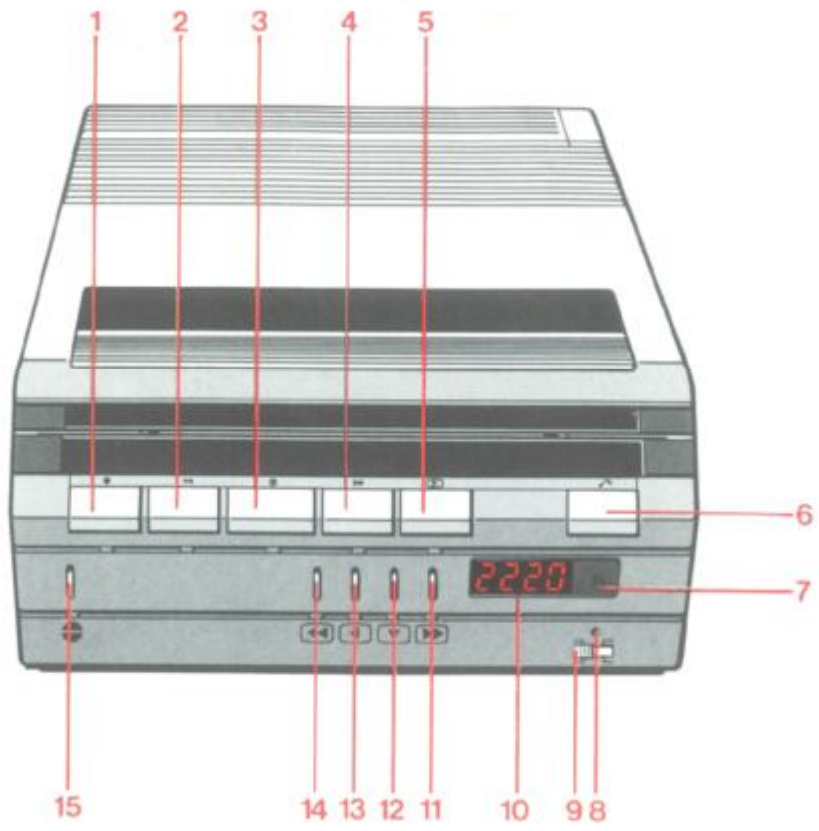
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**VIDEO  
2000**





# ENGLISH

## Instructions for Use

- 1 Record (●) button
- 2 Rewind (◀◀) button
- 3 Stop (⏏) button
- 4 Wind (▶▶) button
- 5 Play (▶) button
- 6 Eject (⏏) button
- 7 Tape counter reset button
- 8 Camera power indicator
- 9 Mode selector
- 10 Tape counter
- 11 Search forward (⏮) button
- 12 Still (⏏) button
- 13 Reverse (⏭) button
- 14 Search reverse (⏮) button
- 15 Audio dubbing (⏮) button

### Note: "Running in"

Your VCR attains optimal recording and playback quality after about 30 hours of tape movement; during this time, the video heads are "running in".

### Important

In order to function correctly, the VCR and cassette(s) must be at room temperature. The VCR should therefore be allowed to acclimatise for at least two hours after unpacking before connecting it to the mains. This is particularly important if the VCR or cassettes have been kept above 40°C (104°F) or below 5°C (41°F) for a long period.

## Contents

- 1** Installation - page 2
  - 2** Operating and controls - page 2
  - 3** Recording of TV programmes - page 3
  - 4** Recording with a camera - page 4
- Correction List - page 7
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## Introduction

Your portable video deck is a simple-to-use, yet versatile playback and recording unit. It will enable you to playback tapes on a TV set or monitor, or to record from a video camera (when you will find its battery operation offers complete mobility).

With a tuner/timer, you will also be able to record TV programmes. Additionally, it uses the unique Video 2000 "flip-over" cassettes - allowing up to 8 hours recording (4 hours per side), which makes it the most economic way to enjoy home video entertainment.

## Your video deck's special features

- Reverse and still (stop motion) facilities allow you to study particular scenes.
- Rechargeable batteries (see Accessories) enable you to carry your deck and operate, anywhere, in any position (except upside down).
- Motorised cassette holder simplifies cassette insertion.
- Multispeed playback for quick picture search, with continuous speed transition.
- Audio dubbing enables you to dub over an existing sound track.
- Automatic assemble means you get no gaps between recordings.
- An optional remote control can be fitted, which enables you to command all tape transport functions (plus two additional functions - Fast and Slow-motion) from your armchair.

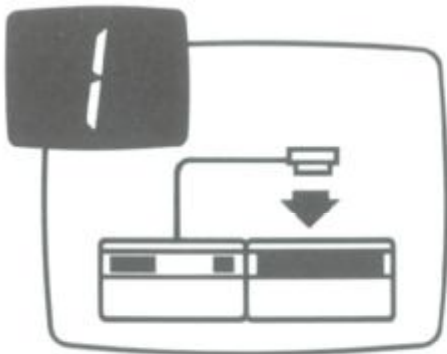
## Using this book

How you use this book will depend on the type and complexity of the video system you have purchased. Whatever your system it is suggested that you read Section 2 thoroughly to familiarise yourself with your video deck's operation.

## Note on illustrations

All numbers in bold type **1, 2, 3**, etc., refer to the main illustration on the folder/cover. The operation letters **A, B, C**, etc., refer to the small illustrations on the folder/cover.

## Installation



Your video deck needs no installation except when it is used in conjunction with a tuner/timer. In this case, follow step **A**.

### Positioning

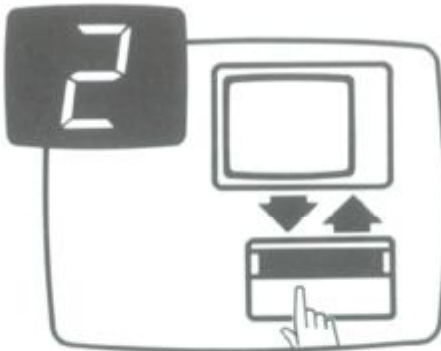
Do not place the video deck directly on top of or underneath your TV set or a separate tuner/timer. Ensure that there is at least 20 cm between the video deck and the TV set, and that air can circulate freely through the ventilation openings at the back.

### Connection

**A** Plug the connector lead attached to the tuner/timer into the connector socket at the back of the video deck.

Once the deck and tuner/timer are installed, you can still use the TV set in the normal way.

## Operating and Controls



When you press any of the tape transport buttons, the video deck switches on, closes the cassette holder and starts to play, record, rewind, etc., depending upon the button pressed. All controls (except Eject) have a coloured indicator that lights whenever the function is carried out. You can press any tape transport button after any other without pressing the Stop button in between, without harming the cassette or the video deck.

### A Mode selector 9

The video deck can be used in two modes, selected with this switch.

- "Tuner-mains" mode is used when the deck is connected to a tuner/timer unit. You can then playback, record TV programmes and use the unattended recording facilities of the tuner/timer. To select this mode, set the Mode selector 9 to its leftmost position.

- "Camera-battery" mode is used for battery supply and for recording with a video camera. For this mode, the Mode selector should be in its rightmost position, as described in Section 4.

### B Eject (6) 6

Pressing this button makes the cassette holder open. When inserting a cassette, place it in the cassette holder with the title label facing you and the side you wish to use on top. Push the cassette into the holder until it is caught at the back. If you close the cassette holder by hand, it will open again, but it closes automatically when any tape transport button is pressed.

### C Play (5) 5

When pressed, the cassette is played back. If no cassette has been loaded, a black and white test pattern is shown on the TV set.

### D Wind (4) 4 and Rewind (2) 2

Pressing either of these buttons makes the tape wind forward or backwards at high speed. When the beginning or end of the tape is reached, the wind or rewind function automatically switches to stop.

### E Stop (3) 3

When this button is pressed, the tape stops.

### F Search forward (11) 11

When this is pressed, the tape is played back at very high speed, allowing you to quickly find a particular scene.

### G Still (12) 12

When this button is pressed, a still picture is shown, with no sound. Every time you press this button, the tape moves forward 1/5th second of normal playing speed and a new still picture is shown.

**Note:** The still function automatically switches off after about 8 minutes.

### Note: Still pictures

When the VCR is in "still", the still picture may occasionally be seen to shake slightly. This can be eliminated by pressing Still (12) button 12 twice in quick succession.

### H Reverse (13) 13

When this button is pressed, the tape is played backwards at normal speed.

### I Search reverse (14) 14

Pressing this button makes the tape play backwards at very high speed.

### Note: Rewinding cassettes

If you want to rewind to the very start of a cassette, for example, to record over it, use Rewind (2) button 2. The Search reverse (14) button 14 and Reverse (13) button 13 rewind the tape, but will leave a few seconds of the old recording at the start.

### J Tape counter 10 and Tape counter reset 7

The Tape counter 10 gives an indication of the amount of tape played. It is reset to "0" automatically at the beginning of a cassette, or manually by pressing the Tape counter reset button 7.

### K Audio dubbing (15) 15

When this button is pressed you can dub sound over the existing sound track as described in Section 4.

### L Record (1) 1

Press this button to start recording. When the end of the tape is reached during recording or a protected cassette is loaded the cassette holder opens automatically.

## How to watch a pre-recorded cassette

There are three possibilities for watching a pre-recorded cassette on your TV set:

- a** with a separate tuner/timer
- b** with an external modulator
- c** directly via an Euroconnector (if you have a TV set with an Euroconnector).

### Tuner/Timer

If you are using the video deck with a separate tuner/timer unit, connect the tuner/timer to the deck and switch the tuner/timer on. This is described in the tuner/timer Instructions for Use under Installation.

**M** Set the Mode selector **9** to its leftmost position ("tuner-mains"). The Tape counter **10** will display "0".

Now follow steps **R** to **Y**.

### External modulator

If you are using an external modulator, connect the modulator to the deck, and tune the TV. These steps are described in the modulator Instructions for Use. (Refer also to Accessories).

**N** Set the Mode selector **9** to its rightmost position ("camera-battery"). The tape Counter **10** will display "0".

Now follow steps **R** to **Y**.

### Euroconnector

**O** Connect the Euroconnector on your TV set to the video deck, using an Euroconnector. Your dealer will be able to supply you with the correct connector (see Accessories).

**P** Set the Mode selector **9** to its rightmost position ("camera-battery"). The Tape counter **10** will display "0".

**Q** Switch on your TV set and select AV mode as described in the TV Instructions for Use.

Now follow steps **S** to **Y**.

**R** Switch on your TV set and select the pre-selector reserved for the video recording.

**S** Press the Eject ( $\wedge$ ) button **6**. The cassette holder will open.

**T** Take the pre-recorded cassette out of its case. Place the cassette in the holder, with the title label facing you and the side with the programme to the top.

Push the cassette into the holder until it is caught at the back.

**Note:** Do not close the cassette holder by hand; it will not stay closed.

**U** Press Rewind ( $\ll$ ) button **2**. The cassette holder closes and the tape rewinds.

**V** Press Play ( $\triangleright$ ) button **5**. The cassette starts running and the programme will be shown on your TV set.

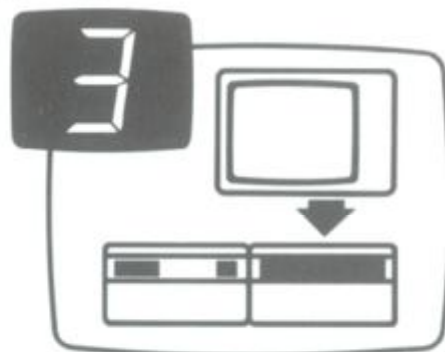
When the cassette reaches the end, the video deck switches to the standby condition after approximately 8 minutes. The cassette holder remains closed.

**W** Press Eject ( $\wedge$ ) button **6**. The cassette holder will open.

**X** You can remove the cassette by pressing it to release the catch at the back.

**Y** To close the cassette holder, press Stop ( $\blacksquare$ ) button **3**.

## Recording of TV programmes



### Cassettes

The following blank cassettes are available for use with your video deck:

- VCC120 (2 x 1 hour)
- VCC240 (2 x 2 hours)
- VCC360 (2 x 3 hours)
- VCC480 (2 x 4 hours)

### Storing cassettes

When not in use, keep the cassettes in their cases at room temperature, away from bright sunlight, loudspeakers, transformers and magnets.

### Recording and re-recording

Always note down the start and finish readings on the Tape counter **10** when you record a cassette; you can write this on the index card. When you record on a cassette, any previous recording on that part of the tape is erased.

### Protecting recorded cassettes

**A** You can protect the recording on side 1 of a cassette by turning the lefthand switch fully to the right as shown. The red part of the switch will then be visible, indicating that the recording on that side of the tape has been protected against erasure or re-recording.

To protect side 2, turn the cassette over and turn the lefthand switch fully to the right. You can make a cassette unprotected again by turning the appropriate switch back so that the black part is visible once more.

### Important

You are not allowed to record television programmes if this infringes copyright or other rights of third parties.

### Attended recording of TV programmes

This method allows you to record a TV programme while you are present.

Connect the video deck to a separate tuner/timer unit and select the TV station you want to record, as described in the tuner/timer Instructions for Use.

**B** Set the Mode selector **9** to its leftmost position ("tuner-mains").

**C** Load an unprotected cassette in the cassette holder and wind or rewind as necessary.

**D** When the TV programme starts, press Record (●) button **1** and recording begins.

**E** When the programme has finished, press Stop (⏏) button **3** to stop recording, and Eject (⏏) **6** to unload the cassette.

### Unattended recording of TV programmes

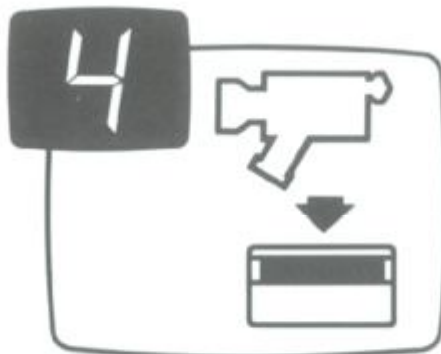
You can pre-programme a separate tuner/timer unit to switch on the video deck at a particular time, record a TV programme and then switch to standby. Your TV set need not be switched on or tuned to the channel you want to record.

Connect the tuner/timer unit to the video deck and follow the tuner/timer Instructions for Use to pre-programme the unattended recording.

Ensure that, at the time when the recording is due to start, the tuner/timer is connected to the video deck, an unprotected cassette is loaded and that the Mode selector **9** is in its leftmost position ("tuner-mains").

**Note:** If you are using the video deck manually at a time when an unattended recording is due to take place, manual operation takes priority, so the pre-programmed recording will not take place.

## Recording with a camera



You can make your own video recordings using a video camera. Your dealer can advise you which camera models are suitable. The video deck can be carried and used in any position except upside down.

For information on cassettes, refer to Section 3.

### Recording outdoors

The video deck need not be connected to a separate tuner/timer unit; it is then easily portable. Power for the video deck and camera is then provided by the video deck battery. A fully charged battery can supply power for between 40 and 50 minutes of video deck use, depending on the type of camera used.

**A** Set the Mode selector **9** to its rightmost position ("camera-battery"). The Camera power indicator **8** should light up; this indicates that the built-in battery has sufficient power to supply the video deck and camera. If the Camera power indicator flashes, the battery voltage is too low and must be recharged or replaced as described later in this section.

Now follow steps **C** to **F**.

### Recording indoors

The video deck and camera can be powered from the mains. In this case, connect the video deck to a separate tuner/timer unit or an external power supply unit (AV5570). Make the connection as described in the Instructions for use of the unit. Switch the tuner/timer on.

**B** Set the Mode selector **9** to its rightmost position ("camera-battery"). The Camera power indicator **8** will light up to indicate that there is a supply voltage for the camera.

**C** Set up the camera as described in the camera Instructions for Use. Connect the camera lead to the camera socket at the side of the video deck.

You can use the camera microphone to record sound at the same time as you make the video recording.

**D** Load an unprotected cassette in the cassette holder.

**E** Press the camera trigger, or the Record (●) button **1**. The cassette holder closes and recording begins.

**F** To finish recording, release the camera trigger, or press Stop (⏏) button **3**.

### Note 1: Automatic assembly.

When recording with a camera, always allow a pause of at least 3 seconds between stopping and starting recording again. This ensures that the second recording links to the previous one, without disturbing stripes or noise bands. You can tell when the 3 second period is over, by listening for the deck motor stopping.

When playing back a cassette, there may be slight colour disturbances between different recordings; these are usually unnoticeable.

If, however, the video deck has meanwhile been switched off (or is at standby), the automatic assembly will not function.

### Note 2: Saving battery power

Pressing Stop (⏏) button **3** twice switches off the major part of the deck's electronics, which saves battery power. The Tape counter memory and camera, however, remain powered. To switch the deck off completely, set the Mode selector **9** to its leftmost position.

### Audio dubbing

This facility allows you to record your own sound track onto a previously made recording. The new sound track replaces any existing soundtrack.

### Audio dubbing with external microphone

Connect the video deck to a tuner/timer unit as described in the tuner/timer Instruction for Use. Switch on your TV set and select the preselector for video recording.

**G** Set the Mode selector **9** to its leftmost position ("tuner-mains").

Connect a separate microphone with a pre-amplifier to the audio socket at the rear of the tuner/timer, as described in the tuner/timer Instructions for Use.

Now follow steps **H**

### Audio dubbing via Camera-Microphone (works only with Philips-Cameras)

Connect the video-deck to a Philips-Camera with microphone. Switch on your TV set and select the preselector for video recording.

**A** Set the Mode selector **9** to its rightmost position ("Camera-battery").

**H** Load the cassette and wind or rewind to the start of the programme you want to audio-dub.

Press Play (▶) button **5** to start playback on your TV set; then press the Audio dubbing (⊕) button **15**, whenever you want to dub over a part of the sound track. To stop audio dubbing press the Stop (⏹) button **3**, or Play (▶) button **5** again.

### Battery

Refer to Accessories: AV5572 Battery.

**I** If the tuner/timer is connected to the mains and linked to the video deck, the battery in the deck is automatically charged. The recharging will be interrupted if the set is switched on. The battery may be left permanently in the deck. A second battery can be recharged simultaneously via the battery socket on the rear side of the tuner/timer.

**J** To change the battery, slide the battery cover upwards, disconnecting the battery connector and pulling out the battery. Insert a charged battery; connect the battery connector and close the cover.

An external battery can also be connected directly to the socket on the side of the recorder.

Alternatively, an external power supply AV5570 or the car battery supply AV5587 can be connected to the socket. Refer to Accessories for more details.

DO charge the battery pack before each use.

DO use only recommended chargers (AV5570; AV5571; AV5586).

DO use only between 0 and 40 °C.

DON'T short-circuit or over discharge the battery pack.

DON'T expose the battery pack to fire.

DON'T use the battery pack for equipment other than that specified.

DON'T charge in a hermetically sealed container.

DON'T use other battery packs than recommended (AV5572).

## Correction list

If while operating your video deck, something has happened which you do not understand, look through this list.

Event	Possible Cause	Correction
Recording or playback not possible.	<ul style="list-style-type: none"><li><b>a</b> The tuner/timer is not connected to the video deck or there has been a mains failure.</li><li><b>b</b> End of tape reached.</li></ul>	<ul style="list-style-type: none"><li><b>a</b> Reconnect video deck and tuner/timer; reconnect to mains. Set clock on tuner/timer.</li><li><b>b</b> Rewind, turn cassette over, or use another cassette.</li></ul>
Recording not possible.	Video camera not connected properly or faulty.	Check connection or see your dealer.
Recording from tuner/timer not possible.	Mode selector <b>9</b> is in position "camera-battery".	Switch Mode selector to leftmost position "tuner mains".
Camera power indicator <b>8</b> flashes.	Battery power too low.	Replace battery, recharge it, or connect a standby battery.
Cassette holder opens automatically when attempting to record or audio-dub.	<ul style="list-style-type: none"><li><b>a</b> No cassette inserted.</li><li><b>b</b> Cassette side is protected.</li><li><b>c</b> End of tape reached.</li></ul>	<ul style="list-style-type: none"><li><b>a</b> Insert cassette.</li><li><b>b</b> Insert an unprotected cassette.</li><li><b>c</b> Insert another cassette.</li></ul>
Recording quality poor.	<ul style="list-style-type: none"><li><b>a</b> Weak transmitter signal.</li><li><b>b</b> Cassette stored incorrectly.</li></ul>	<ul style="list-style-type: none"><li><b>a</b> See your dealer.</li><li><b>b</b> Use another cassette, and store it correctly (See Section 3).</li></ul>
Poor or no sound/picture on recorded cassette.	<ul style="list-style-type: none"><li><b>a</b> Cassette stored incorrectly.</li><li><b>b</b> TV pre-selector reserved for tuner/timer not tuned exactly.</li></ul>	<ul style="list-style-type: none"><li><b>a</b> Use another cassette, and store it correctly (See Section 3).</li><li><b>b</b> Retune TV pre-selector as in tuner/timer instructions for Use.</li></ul>
Record function cannot be switched off.	Camera trigger switch activated.	Release camera trigger.



## Technical Data

### General

Battery: voltage	12 V
Type	lead/acid
Camera supply: voltage	12 V nominal
Current	max. 800 mA
External supply voltage	11 to 12.6 V
Uninterrupted recording time with camera	> 40 minutes (depending on type of camera)
Wind/rewind time	200 s typical with VCC480
Ambient temperature	+5 to +40 °C
Humidity	30 to 80% RH
Dimensions	274 x 219 x 117 mm incl. feet
Weight	4.6 kg excl. batt. & cassette

### Video

Input signal	1 Vp-p, +6 dB -3 dB, 75 Ohm
Output signal	1 Vp-p, ± 1.5 dB, 75 Ohm
Resolution	> 3.1 MHz (-26 dB)
Signal/noise ratio	typically 47 dB acc. to CCIR 421-2 annex III (> 44 dB)

### Audio

Input signal	0.2 to 1 Vrms
Output signal	0.5 Vrms ± 3 dB
Audio frequency response	40 to 10 000 Hz (-6 dB)
Signal/noise ratio	> 50 dB weighted acc. DIN 45500
Wow and flutter	< 0.3% acc. DIN 45507
Harmonic distortion	< 5%

Data subject to change without notice.

### Video 2000 Maintenance Cassette

In normal circumstances, your VCR will give perfect picture quality without requiring maintenance. However, depending on the environment some dust may get into the tape transport or on the heads, affecting the picture quality. If this happens, the special non-abrasive Video 2000 Maintenance Cassette should be used to remove the dust. The Video 2000 Maintenance Cassette is available from your supplier; follow the instructions provided with the cassette.

This product complies with the Radio Interference requirements of the Council Directive of 4 November 1976 76/889/EEC.

### Accessories

Accessories help you make the most of your video deck's facilities and get maximum enjoyment from it. The following is a complete list of the range of accessories available. Your dealer can supply them.

- AV5560 Remote control adaptor
- AV5561 Remote control receiver
- AV5562 Remote control hand unit
- AV5565 Modulator
- AV5570 Power supply and recharge unit (charge time 3 hours approx.)
- AV5571 Battery wall socket charger - recharges video deck battery from the mains (charge time 8 hours approx.)
- AV5572 Battery pack 12 V, 2.7 AH (maintenance-free)
- AV5573 Camera adaptor for various Japanese cameras
- AV5574 Euroconnector adaptor
- AV5576 Battery belt 4 Ah
- AV5581 Carrying case
- AV5586 Car battery recharge unit - recharges video deck battery from car battery (charge time 8 hours approx.)
- AV5587 Car battery supply unit - powers deck and camera from car battery via car cigar lighter socket
- SBC1018/1019 DIN connection cable 2m/5m
- SBC1035/1036 Euroconnector connection cable 1.5m/5m
- SBC5585 Universal bidirectional DIN-Euroconnector adaptor.