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VIDEO

VR 270 VIDEO RECORDER
STANDBY / ON

PHILIPS

RECORD

END
02:48:88

VHS HQ

PROGRAMME STOP/EJECT

PHILIPS
VIDEO

Let's make things better.

PHILIPS

The remote control

MONITOR	**TV monitor**: To switch between TV reception and VCR playback
CHILD LOCK	**Child lock**: To switch child lock on/off
SELECT	**Select**: Selecting functions
STANDBY/ON ⏻	**Switch on or off**: To switch set on or off, interrupt menu function, interrupt a programmed recording (TIMER)
0-9	**Number buttons**: 0 - 9
TV	**To call up additional TV functions**: Additional TV functions for TV sets with the same remote control code (RC5)
TURBO TIMER	**TurboTimer**: To programme a recording with the function Turbo Timer
TIMER ⏲	**TIMER**: To make a TIMER programming or to alter or clear a programmed TIMER
RECORD ●	**Record**: To record the TV channel selected at this moment
MENU	**Menu**: To call up or end main menu
CLEAR (CL)	**Delete**: To delete last entry/Clear programmed recording (TIMER)
P ↑ +	**Select**: To select the next line or programme number
P ↓ −	**Select**: To select the previous line or programme number
OK	**Store/Confirm**: To store or confirm entry
INDEX ▶❙	**Index search**: In combination with ◀◀ / ▶▶ : to search for previous or next recording on the cassette
STILL ▶❙◀	**Still picture**: To stop the tape and show a still picture
◀◀	**Rewind**: During STOP and STANDBY: rewind, during PLAYBACK: reverse scanning
STOP ■	**Pause/Stop**: To stop the tape, except during TIMER-recording
PLAY ▶	**Playback**: To play a cassette
▶▷	**Forward wind**: During STOP and STANDBY: forward wind, during PLAYBACK: forward scanning

Additional TV functions

Hold down **TV** and select the corresponding function using the following buttons.

STANDBY/ON ⏻	**Standby** : To switch off the TV
MUTE ⌀	**TV sound off**: To switch the sound on or off
AV	To switch the TV to Audio/Video in-socket
P ↑ +	**Select**: To select a programme number
P ↓ −	**Select**: To select a programme number
← ⊿ −	**TV volume**: TV volume down
⊿ + →	**TV volume**: TV volume up

Front of the device

STANDBY/ON ⏻/I	**Switch on or off**: To switch off or on, interrupt a function, interrupt a programmed recording (TIMER)
RECORD ●	**Record**: To record the TV channel selected at this moment
PROGRAMME −	**Select**: One line or programme number down
PROGRAMME +	**Select**: One line or programme number up
STOP/EJECT ■/▲	**Pause/Stop, eject cassette**: To stop the tape and eject the cassette
◄◄	**Rewind**: During STOP and STANDBY: rewind, during PLAYBACK: reverse scanning
►	**Playback**: To play a cassette
►▷	**Forward wind**: During STOP and STANDBY: forward wind, during PLAYBACK: forward scanning

The symbols on your video recorder display

These symbols can light up on your video recorder display:

▓	This is where the current operating mode is shown as a symbol.
⌐⊙	When you have switched on the child lock.
◯	When you are making a recording.
⊕	When you have programmed a recording or when a programmed recording is being made.
▭▭	When you have put a cassette in the video recorder.
DATE	When the date of the programmed recording is shown.
START	When the start time of the programmed recording is shown.
PROG.	When the programme number of the programmed recording is shown.
END	When the end time of the programmed recording is shown.
▞▞:▞▞	Display of programme number of the TV channel / tape position / channel name / function.
88	Tape position in seconds.

1 Introduction

Dear Philips customer,

Instruction manuals are usually very dry since they are technically-oriented and often poorly translated. I have been employed by Philips for this reason.

Allow me to introduce myself.
My name is Phil. I will be guiding you through the instruction manual and try to be of help in operating your new device. At appropriate points along the way, I will be providing you with the following information:

Excuse me?
Here I will be explaining seemingly unimportant things.

Tip
Here I will be giving you instructions on functions that help make it easier to use your device.

Problem
Here I will help you to find the cause of problems and their solutions.

For experts
Here I will be giving you instructions on functions that are necessary for special applications.

I hope you have lots of fun with your new device.

Phil

P.S. If you have questions or if problems come up during operation, please see the helpful information in the chapter 'Before you call an engineer'. If this doesn't help you to resolve the problem, please call the **customer support service** for your country. The corresponding telephone numbers and e-mail addresses can be found on the last page of this instruction manual.

Welcome to the large family of owners of PHILIPS VHS video recorders.

Thank you for buying a VR270B-270W/07 .
Please take the time to read this operating manual before using your video recorder. It contains important information and notes regarding operation.
The video recorder should **not be turned on immediately after transportation** from a cold to a hot area or vice versa, or in conditions of extreme humidity.
Wait at least **three hours** after transporting the device. The video recorder needs this time in order to become acclimatised to its new environment (temperature, air humidity, etc.).

Your Philips team hopes that you will enjoy using your new video recorder.

This video recorder is used for the recording and playback of VHS video cassettes.
Cassettes with the VHS-C label (VHS cassettes for camcorders) may only be used with a suitable adapter.

This product complies with the requirements of Directive 73/23/EEC +89/336/EEC +93/68 EEC.

Specifications

Voltage: 220-240V/50Hz
Energy consumption (Standby): less than 4W
Rewind time : Forward/rewind approx. 260/170 seconds (cassette E-180)

Dimensions in cm (B/H/T): 38.0/9.3/26.0
Number of video heads: 2
Recording/playback time: **4 hours (SP)** (cassette E-240)

Supplied accessories

Operating instructions
Remote control and batteries
Antenna cable
Power cable
Quick install guide

Introduction

3

Important notes regarding operation

Danger: High voltage!
Do not remove the top cover as there is a risk of an electrical shock!

The video recorder does not contain any components that can be repaired by the customer. Please leave all maintenance work for qualified personnel.

As soon as the video recorder is connected to the power supply, there are some components that are in constant operation. To switch off the video recorder completely you must disconnect it from the power supply.
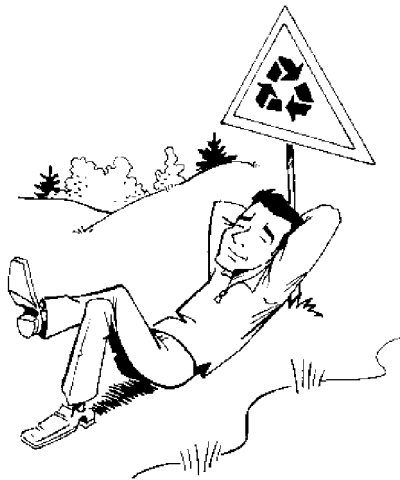
These operating instructions have been printed on non-polluting paper.

Deposit old batteries at the appropriate collection points.

Please make use of the facilities available in your country for disposing of the packaging of the video recorder in a way that helps to protect the environment.

This electronic device contains many materials that can be recycled. Please enquire about the possibilities for recycling your old device.

Make sure that air can circulate freely through the ventilation slots on the video recorder. Do not place the device on an unsteady base.

Make sure that no objects or liquids enter the video recorder. Do not place vases or the like on the video recorder. If liquid is spilt into it, immediately disconnect the video recorder from the power supply and call After-sales Service for advice.

4

Introduction

Do not place any combustible objects on the device (candles, etc.).

Make sure that children do not place any foreign objects within the openings or ventilation slots.

So that you can identify your machine for service questions or in the event of theft, enter the serial number here. The serial number (PROD.NO.) is printed on the type plate fixed at the back of the device.

MODEL NO.	VR270B-270W/07	PHILIPS
PROD. NO.	....	

Introduction

Important information for customers in Great Britain

This set is fitted with an approved moulded 13 amp plug. To change the fuse in this plug or to attach a different plug, please proceed as follows:

1 Take off the fuse cover and remove the old fuse.

2 Insert a new fuse. Suitable fuses are those of the type BS 1362 3A, A.S.T.A. standard or BSI standard.

3 Close the fuse cover.

If the attached plug does not meet your requirements, you can cut it off and replace it with a suitable plug. Please observe the following conditions:

If your new plug uses a built-in fuse, this should be a 3A fuse.

If your new plug does not contain a built-in fuse, please do not use any fuses in your fusebox with a rating of more than 5A.

Please destroy the old, cut-off plug so that it cannot be used elsewhere.

Connect the blue cable (neutral 'N') to the terminal in the plug which is marked with the letter 'N' or coloured black.

Connect the brown cable (live, 'L') to the terminal in the plug which is marked with the letter 'L' or coloured red.

Do not in any circumstances connect either of the two cables to the terminal in the plug which is marked with the letter 'E', the symbol "\" or coloured green or green / yellow.

Before you refit the plug cover, make sure, that the grip at the bottom of the plug is clamped over the plastic cover of the lead, not just over the two wires.

2 Connecting the video recorder

Preparing the remote control for operation
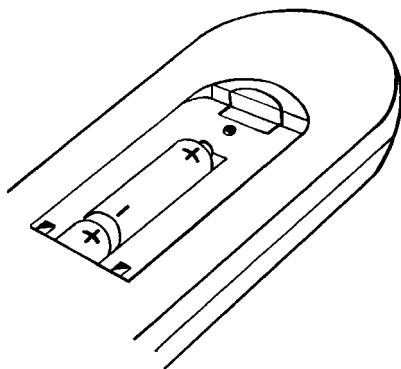
The remote control and its batteries are packed separately in the original video recorder packaging. You must install the batteries in the remote control before use - described in the following section.

❶ Take the remote control and the enclosed batteries (2 batteries).

❷ Open the remote control's battery compartment and place the batteries in it as shown in the picture and close the battery compartment.

The remote control is now ready to use. Its range is approximately 5 meters.

Connecting your video recorder to the TV set

The necessary cable connections must be made before you can record or playback TV programmes using your video recorder.
We recommend that you use a scart cable to connect your TV set and video recorder.
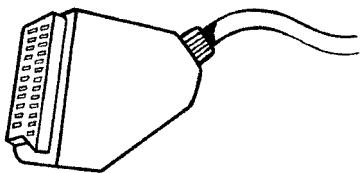
What is a scart cable?
The scart or Euro AV cable serves as the universal connector for picture, sound and control signals. With this type of connection, there is practically no loss of quality during the picture or sound transfer.

When you install your video recorder for the first time, select one of the following options:

'Connecting with a scart cable'
If your TV set has a scart socket and you are using a scart cable.

'Connecting without a scart cable'
If you do **not** wish to use a scart cable.

Connecting the video recorder

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Connecting with a scart cable
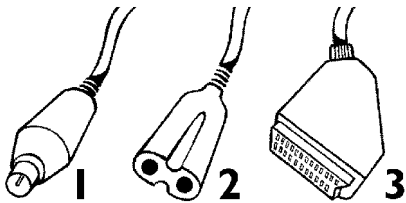
Have the following cables ready:
an aerial cable (1, supplied), a mains cable (2, supplied), a scart cable (3).
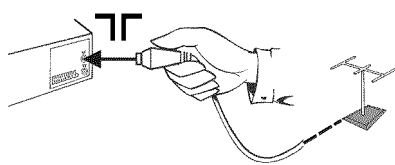
1 Remove the aerial cable plug from your TV set. Insert it into the socket ⊓⌐ at the back of the video recorder.
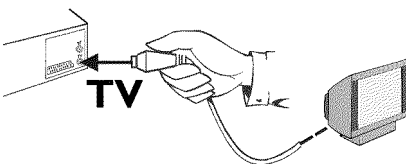
2 Insert one end of the supplied aerial cable into the socket 📺 at the back of the video recorder and the other end into the aerial input socket at the back of the TV set.
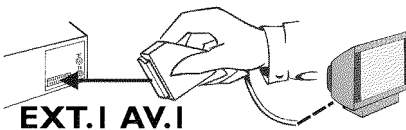
3 Plug one end of a scart cable into the scart socket **EXT.1 AV 1** at the back of the video recorder and the other end into the suitable scart socket on your TV set (see your TV's operating instructions).

EXT.1 AV.1

My TV set has several scart sockets. Which one should I use?
Select that scart socket which is suited for the video output as well as for the video input.
My TV offers me a selection menu for the scart socket.
Select 'TV' as a connection source of this scart socket.

4 Switch on the TV set.

5 Insert one end of the supplied mains cable into the mains socket ∿ at the back of the video recorder and the other end into the wall socket.
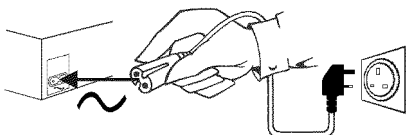
×**My screen is empty**
✓ Many TV sets are switched to the programme number for the scart socket by way of a control signal sent through the scart cable.
✓ If the TV set does not automatically switch to the scart socket programme number, manually change to the corresponding programme number on your TV set (see your TV's operating instructions).

Then, read the paragraph 'Initial installation' in the chapter 'Installing your video recorder'.

Connecting without a scart cable
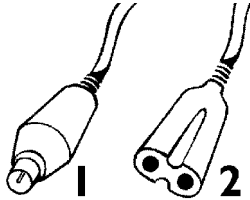
Have the following cables ready:
an aerial cable (1, supplied), a mains cable (2, supplied).
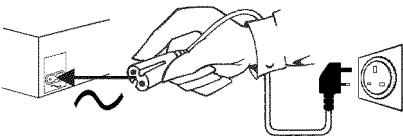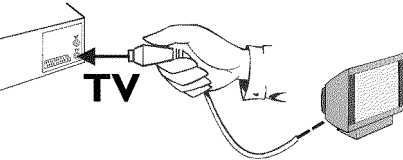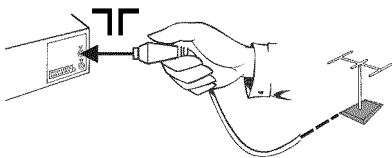
1 Switch off your TV set.

2 Remove the aerial cable plug from the aerial input socket of the TV set. Insert it into the socket ꓔꓩ at the back of the video recorder.

3 Insert one end of the supplied aerial cable into the socket ꚰ at the back of the video recorder and the other end into the aerial input socket at the back of the TV set.

4 Insert one end of the supplied mains cable into the mains socket ∿ at the back of the video recorder and the other end into the wall socket.

5 Press the **STOP ■** button on the remote control.

6 **In addition** press the **STOP/EJECT ■/▲** button on the video recorder until the modulator frequency appears on the screen, e.g. '*M583*' (583MHz or UHF channel 35).

7 Switch on your TV set and select the programme number used for video playback on your TV set (see your TV's operating instructions).

Which programme number is used for video recorder operation?

To ensure the stability of the television picture during cassette playback (prevention of waves or streaks), special programme numbers have been set aside on the TV for the use of video recorders. This is usually the highest possible programme number, e.g. '12', '16', '99' or even programme number '0'. For more information, please see your TV's operating instructions.

Connecting the video recorder

9
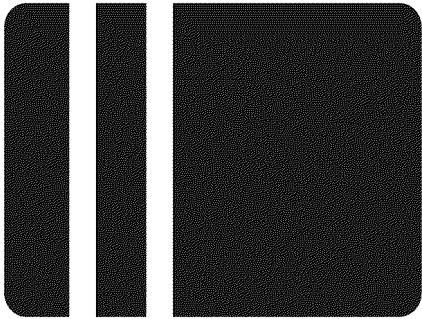
8 Select this programme number and manually start the TV's channel search as if you wanted to save a new TV channel until the 'test image' appears.

9 Switch off the video recorder using the button **STANDBY/ON** ⏻ .

✗ I do not see a 'test screen'
✓ Check the cable connections.
✓ The video recorder 'transmits' on the 583MHz frequency (channel 35) Repeat the channel search on your TV set.

---

10 Save this programme number setting on your TV set for video recorder operation.

Programme number for video recorder operation

You have now saved a programme number for use by your video recorder as you would a regular TV channel. This programme number must now be used in future for video recorder playback ('video recorder' TV channel).

You can find more details in chapter 'Initial Installation'.

Connecting additional devices

You can connect additional devices such as satellite receivers, camcorders, etc. to the socket **EXT.1 AV 1** at the back of the video recorder.
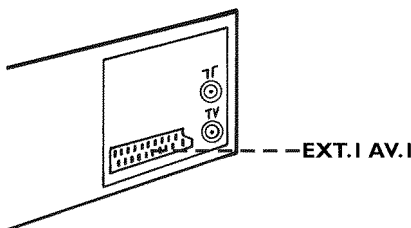
If you want to connect an additional device to the scart socket, you must adjust the TV set to the video recorder. Please read the section 'Connecting without a scart cable'.

---EXT.I AV.I

Connecting the video recorder

3 Installing your video recording

Initial installation

This chapter shows you how to start the initial installation. The video recorder automatically seeks out and stores all available TV channels.
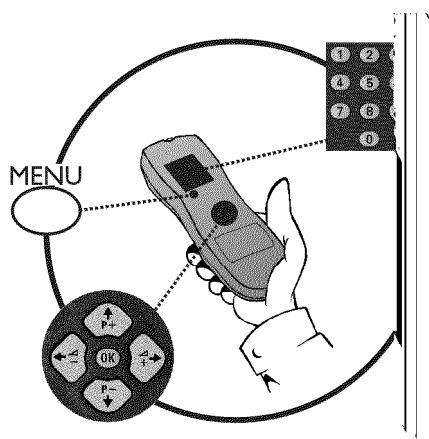
'Aim' correctly

In the following sections, you require the remote control for the first time. When using, always aim the front of the remote control at the video recorder and not at the TV set.

Connecting additional devices

After you have connected additional devices (satellite receiver, etc.) through the aerial cable, switch them on. The automatic channel search will recognise them and save them.

1 Press the **MENU** button on the remote control.

The automatic TV channel search starts. This will appear on the display:

✗ The video recorder does not find any TV channels during the search

✓ Select channel 1 on the TV set. Can you see the saved TV channel on the TV set?
If not, check the cable connection of the aerial (aerial socket), video recorder, TV set.

✓ Please have patience.
The video recorder searches the entire frequency range in order to find and save the largest possible number of TV channels. It is possible that the TV channels in your country are broadcast in a higher frequency range. As soon as this range is reached during the search, the video recorder will find the TV channels.

2 As soon as the automatic TV channel search is completed, '□K' will briefly appear in the video recorder display.
Next the year will appear in the video recorder display (e.g. '2001').

3 If required, change the year with the number buttons **0-9** on the remote control.

4 Confirm with **OK** .

5 If required, change the month in the same way (e.g. 'M □1').

6 Press **OK** .

7 If required, change the date in the same way (e.g. '꿘 꿐 꿛').

8 Press **OK** .

9 If required, change the time in the same way (e.g. '꿠ꞏ꿐꿐').

10 Press **OK** .
'꿦ꞏ' will briefly flash in the video recorder display.

The initial installation is now complete.

Satellite receiver
If you are connecting a satellite receiver, please read the section 'Using the satellite receiver'.

Installing your video recording

MENU

Manual TV channel search
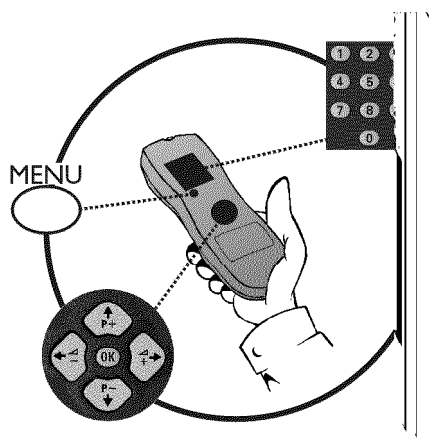
In some cases it could occur that all of the TV channels were not found and saved during the initial installation. In this case, the missing or coded TV channels must be searched for and stored manually.

1 Switch on the TV set. If required, select the programme number for the video recorder.

2 Press **MENU** on the remote control. '*CLK*' will appear in the display.

3 Using **P↓—** or **P↑+** , select '*MAN*' in the display (manual channel search).

4 Press **OK** .

5 Using **P↓—** or **P↑+** , select the desired programme number that you want to use for the TV channel, e.g. '*P01*' and confirm with **OK** .

6 Select the desired display using **P↓—** :

What is hidden behind the settings?

'*CH*': Display/Entry of channels
'*S-CH*': Display/Entry of special channels

---

7 Confirm with **OK** .
'*CH*' will flash in the video recorder display.

×'*CA*' will flash in the display instead of '*CH*'

✓ It will be switched to the display/entry of special channels. If you do not want to assign a special channel, press **MENU** and begin again at step **4** .

---

8 Enter the channel of the desired TV station using the number buttons **0-9** .

×I don't know the channels for my TV stations

✓ In this case, press **P↑+** to start the automatic channel search. A changing channel number will appear in the video recorder display.
Continue the automatic search until you have found the desired TV channel.

---

9 To save the TV channel, press **OK** as often as necessary until '*OK*' appears in the display.

10 To search for other TV channels, begin again at step **4** .

11 To end, press **MENU** .

Installing your video recording

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Using the satellite receiver

TV channels from a satellite receiver (connected to the scart socket **EXT.1 AV 1**) are received on the video recorder on programme number '*E 1*'.
To do this, select the programme number '*E 1*' with **0** on the remote control.
You should select the TV channels to be received by the satellite receiver directly on the receiver itself.
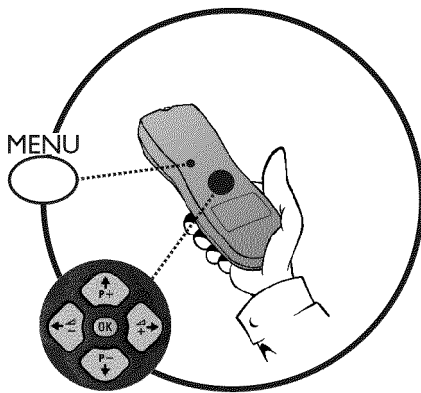
Automatic TV channel search

During installation, all available TV channels are searched for and saved. If the channel assignments of your cable or satellite TV provider change or if you are reinstalling the video recorder, e.g. after moving house, you can start this procedure again. This will replace the TV channels already saved with the new ones.

1   Switch on the TV set. If required, select the programme number for the video recorder.

2   Press the **MENU** button on the remote control. '*CLK*' will appear on the display.

3   In the display, select '*AUTO*' (Automatic TV channel search) with **P↓−** or **P↑+** .

4   Press **OK** .

5   The automatic TV channel search starts. This allows the video recorder to save all available TV channels. This procedure may take several minutes.

6   When the TV channel search is complete, '*OK*' will appear on the screen.

7   To end, press **MENU** .

You can read about how to search for a TV channel manually in the section 'Manual TV channel search'.

Monitor function

You can switch back and forth between the TV picture and video recorder picture with **MONITOR** . But this only works when you use a scart cable to connect the video recorder to your TV set and your TV set responds to this switch-over.

Sorting and clearing TV channels manually
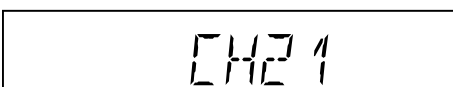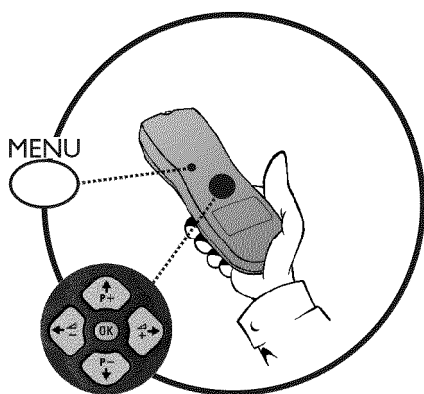
After you have performed the automatic channel search you may not agree with the sequence in which the individual TV channels have been allocated to the programme positions (programme numbers) of the video recorder. You can use this function to individually sort the TV channels already saved or to delete unwanted TV channels or those with poor reception.

1 Switch on the TV set. If required, select the programme number for the video recorder.

2 Press **MENU** on the remote control. '*CLK*' will appear on the display.

3 In the display, select '*ALLO*' (Manual TV channel search) with **P↓−** or **P↑+** .

4 Press **OK** .

MENU

CH21

5 Using **P↑+** or **P↓−** , select the saved TV channel that you want to assign to the programme number '*01*'.

6 Confirm with **OK** .

7 The next highest programme number (e.g. '*02*') will briefly appear in the display. After that, the channel number of the already allocated TV channel will blink.

8 Using **P↑+** or **P↓−** , select the saved TV channel that you want to assign to this programme number (e.g. '*02*').

> **Deleting TV channels**
>
> Unwanted channels or those with poor reception can be deleted using **CLEAR (CL)** .

9 Confirm with **OK** .

10 To assign other TV channels to a programme number, repeat steps **7** to **9** .

11 Confirm the assignment of the TV channel with **MENU** .

12 To exit the main menu, press **MENU** .

Installing your video recording

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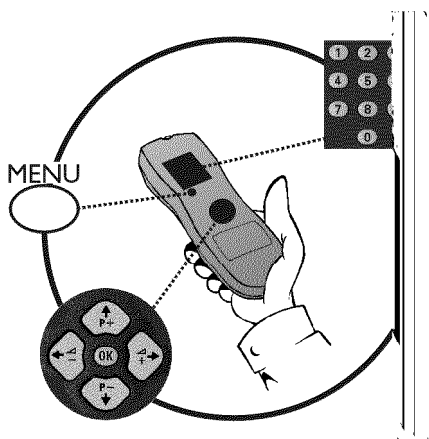
Setting the time and date

If the display shows an incorrect time or '--:--', the time and date must be reset manually.

1 Press **MENU** on the remote control.

2 Press **MENU** on the remote control. *CLK*' will appear on the display.

3 Confirm the function '*CLK*' (time and date) with **OK** .

4 Next, the year, for instance, '*2001*' will appear in the video recorder display. *2001*). If required, change it using **P↑+** , **P↓−** or with the number buttons **0-9** on the remote control.

5 Confirm with **OK** .

6 If required, change the month, for instance, '*M 01*' in the same way. Confirm with **OK** .

7 If required, change the date, for instance, '*D 01*' in the same way. Confirm with **OK** .

8 If required, change the date, for instance, '*20:00*' in the same way.

9 Press **OK** .
'*OK*' will briefly flash in the video recorder display. The time/date setting is now complete.

10 To end, press **MENU** .

Installing your video recording

4 Important notes for operation

Switching on	You can switch on the video recorder with the **STANDBY/ON** ⏻ button, the number buttons **0-9** or by putting in a cassette.
Automatic switch-off	If the video recorder is not used for several minutes, it switches itself off automatically. This function can be deactivated (e.g. if you want to use the video recorder as a TV receiver). For more information, please read the section 'Automatic switch-off' in chapter 'Additional functions'.
Time in the display	If you have switched the video recorder off with **STANDBY/ON** ⏻ , the time will show in the display, e.g. '18:00'. If the clock has not been set, '⁻⁻:⁻⁻' will appear.
Energy consumption	The video recorder should always be connected to the mains so as not to affect the use of the TV or programmed recordings. Power consumption is less than 4W.
Power outage/no power	Channel information remains saved for up to 1 year, the time and timer information is saved for up to 3 hours.
Emergency exit	The video recorder and the remote control have the option of an 'Emergency exit'. You can use the **STANDBY/ON** ⏻ button to interrupt any function or step during use. You can operate your device without worry. There is no risk whatsoever of damaging the video recorder by performing user steps incorrectly.
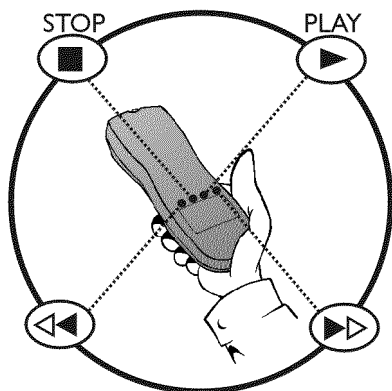
5 Playback

Playing cassettes

You can use this video recorder to play back recorded VHS video cassettes. You can operate the video recorder using the remote control or the buttons on the front of the video recorder.

What does VHS mean?

'Video Home System' (VHS) has become the world-wide standard for the playback and recording of amateur video cassettes. This popular standard continues to be improved. Super VHS (S-VHS) provides a sharper picture and less noise. Digital VHS (D-VHS) only works with digital picture and sound signals. Your video recorder can only record and play standard VHS cassettes.

---
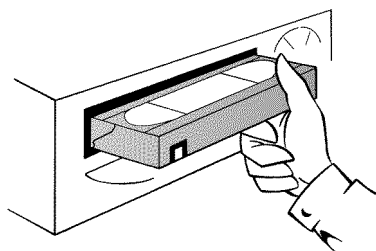
1 Put a cassette into the cassette slot.
The cassette is inserted automatically. ' 🖸 ' will appear on the display.

2 Press the Play button **PLAY ▶** to view the tape.
This will, for example, appear in the display:
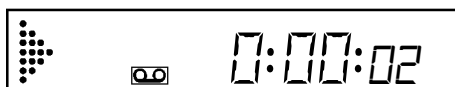
✗ Picture/ sound quality is poor

✓ When playing rental videos or older, poorer quality cassettes, it may not be possible to completely filter out picture and sound interference. This is not a fault in your machine.

---

3 To stop the playback, press **STOP ■** on the remote control or **STOP/EJECT ■/▲** on the video recorder.

4 To eject the cassette, press **STOP/EJECT ■/▲** on the video recorder when the video recorder stops the playback (STOP).

Automatic switch-off of special functions

Many functions (e.g. pause, still picture, search) switch themselves off automatically after a short time in order to protect the cassette and to save energy.

Can I play back recordings in 'LP'?

With this video recorder you can only play back cassettes in the recording speed 'SP'. When you play back a recording in the recording speed 'LP', picture and sound distortion will occur.

Searching for a tape position with picture (scanning)
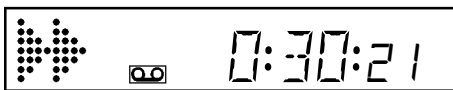
1 While a cassette is playing, press ◄◄ (reverse) or ►► (forward) one or more times. This will, for example, appear in the display:

2 To stop at a certain place on the tape, press **PLAY ►** .

Decreased picture quality

Scanning interferes with the picture quality. The sound is switched off. This is not a fault in your machine.

Still picture
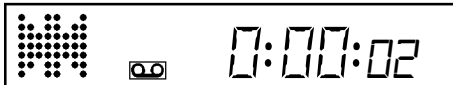
1 During playback, press **STILL ►I◄** to stop the tape and display a still picture. This will, for example, appear in the display:

2 Each time you press **STILL ►I◄** , the picture will advance one frame.

Interference stripes

Interference stripes may appear on the screen during still picture. This is normal and not a fault in your machine.

3 To continue playback, press **PLAY ►** .

Playback

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Searching for tape position without picture (forward wind and rewind)

1 Stop the tape with **STOP ■** .

2 Press ◁◁ (reverse) or ▷▷ (forward). This will, for example, appear in the display:

3 To stop at a certain place on the tape, press **STOP ■** .

```
▶···    ⊡⊡    0:30:21
```
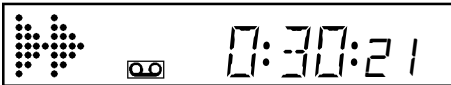
Instant View

With this function you can switch to picture search during wind and rewind.

1 If you hold ◁◁ (rewind) or ▷▷ (wind) during wind or rewind, you will switch to picture search.

2 As soon as you release the button, the video recorder will automatically switch back to rewind or wind.

Automatic search for a tape position (index search)

Every time a tape is recorded an index marking is written on the tape. This marking can be compared with a bookmark. These marked positions can be found again quickly and easily later by pressing a button.

1 To search for the previous marking, press **INDEX ▶I** and then ◁◁ .

2 For the next marking, press **INDEX ▶I** and then ▷▷ . This will, for example, appear in the display for the next marking.

3 As soon as the video recorder finds this marking, it automatically switches to playback.

```
▶·I    ⊡⊡    0:30:02
```
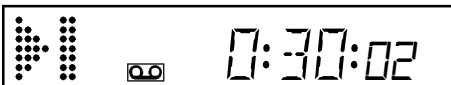
Automatic search for a blank space on the tape

You can search for space on the tape (at least 1 minute of blank tape) for a new recording, for example, after an existing recording on the tape.
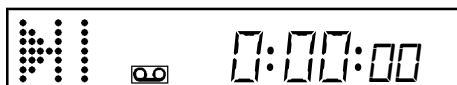
❶ Press **INDEX ▶|** . Then press **STOP ■** . This will, for example, appear in the display:

```
M|    ⊙⊙    0:00:00
```

❷ As soon as the video recorder finds the corresponding tape position, it automatically switches to pause.

> **✗ The cassette is ejected**
> ✓ The video recorder was unable to find any blank space on the tape inserted.

Playback

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6 Eliminating picture interference

Optimising tracking

This video recorder has an automatic tracking function. In order for the video heads to optimally read the video track of the newly inserted video cassette, the tape speed is slightly corrected automatically.
In some cases however, interference will still occur.
The following section will explain how to manually adjust the tracking settings.

1 While a cassette is playing, hold **P↑+** until '*TRAC*' (TRACking) appears in the display.

2 Hold down the buttons **P↑+** or **P↓−** until the playback quality is at its best.

3 Wait a few seconds, until '*TRAC*' disappears from the display.

These selected picture settings will not change until you eject the cassette.

Optimising still picture

If the still picture vibrates vertically, you can improve the still picture as follows:

1 During still picture, hold **P↑+** or **P↓−** until the picture quality is at its best.
'*JITT*' will appear in the display.

2 When you release the button, '*JITT*' will disappear.

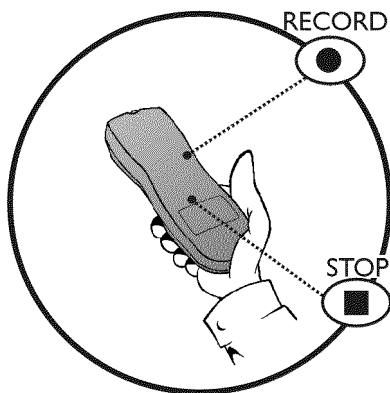The video recorder will store these settings automatically.

> ✗ **I cannot reach optimal quality for the still picture**
> ✓ Interference which cannot be alleviated by this function can occur in cassettes of poor quality or camcorder cassettes .

7

Manual recording

General information

Use 'Manual Recording' to make a spontaneous recording (for example, a programme currently being shown).

If you want to start and stop a recording manually, read the section **'Recording without automatic switch-off'**.

If you want to start a recording manually but have it stopped automatically, read the section **'Recording with automatic switch-off'**. (e.g. not to record to the end of the tape)

Recording without automatic switch-off

1   Insert a cassette.

2   Use **P↑+** or **P↓–** to select the programme number you want to record, for example, 'P01'. This will appear on the display:
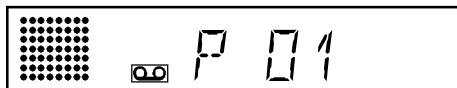
> **Programme number '**$E1$**'**
>
> This programme number is provided for recording from external sources (via the scart socket **EXT.1 AV 1**).

3   To start recording, press **RECORD ●** on the remote control or **RECORD ●** on the video recorder. This will, for example, appear in the display:
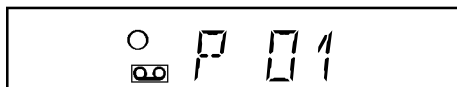
> **Displaying tape position**
>
> Using **OK** you can show the tape position in the display.

4   Stop recording with **STOP ■** .

Manual recording

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Recording with automatic switch-off (OTR One-Touch-Recording)

1   Insert a cassette.

2   Use **P↑+** or **P↓—** to select the programme number you want to record.
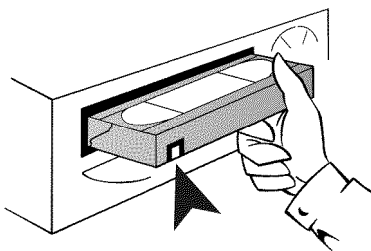
3   Press **RECORD ●** on the remote control.

4   Each time you press **RECORD ●** you will add 30 minutes to the recording time.

> **How can I clear the recording time just setted?**
> To delete an entry, press **CLEAR (CL)** while the display shows the recording time.

Preventing accidental erasing of cassettes

All cassettes (except for rental and store cassettes) have a security tab on the back of the cassette (see arrow).
To prevent recording over important recordings (erasing), you can remove this security tab or slide it to the left.
If you later decide to record on a protected cassette, simply cover the hole with adhesive tape or slide the tab to the right.

Lining up recordings (assemble cut)

When you add a further recording to a cassette, which already has a recording on it, a short blank (flicker) can appear between the old and the new recording or the picture itself can flicker. To help reduce these from occurring, proceed as follows:

1   Find the tape position of the old recording where you want to insert the new recording.

2   Look at the last minute of the old recording (playback).

3   Press **STOP ■** on the remote control at the tape position where the new recording is to go. **II** ' will appear on the display.

4   Now start recording as usual by pressing **RECORD ●** on the remote control.

5   Stop recording with **STOP ■** .

8 Programming a recording (TIMER)
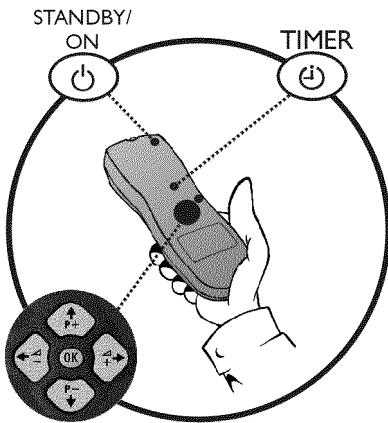
General information

Use programmed recording to automatically start and stop a recording at a later date. The video recorder will switch to the right programme number and begin recording at the correct time.
With this video recorder, you can pre-programme up to six recordings within a period of one month.

To make a programmed recording, your video recorder needs to know:
* the date you want to make the recording
* the programme number of the TV channel
* the start and stop time of the recording

This information is saved in a 'TIMER block'.

Programme recordings

1 Press **TIMER** ⏻ on the remote control.
An empty TIMER block will appear in the display.

DATE	END
-- -- : -- --	
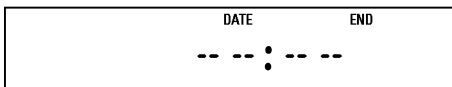
✗ '*CLK*' **will briefly appear in the video recorder display then** '*CLK*' **will flash**

✓ The internal clock of the video recorder must be reset. Please read the section 'Setting the time and date' (starting at step **3**) in chapter 'Installing your video recorder'.

---

2 Press **TIMER** ⏻ .
The video recorder display will read, for instance, '*DATE 01*'.
If required, change the date of the recording with **P↑+** , **P↓—** or the number buttons **0-9** on the remote control.

DATE
01

3 Press **TIMER** ⏻ .
The video recorder display will read, for instance, '*PROG. 01*'.
If required, use **P↑+** , **P↓—** or the number buttons **0-9** on the remote control to change the programme number of the TV channel from which you want to record.

PROG.
01
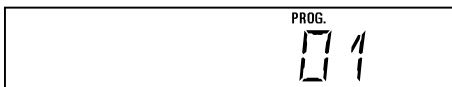
4 Press **TIMER** ⏻ . The video recorder display will read, for instance, '*START 20:00*'.
If required, change the start time of the recording with **P↑+** , **P↓—** or the number buttons **0-9** on the remote control.

START
20:00

Programming a recording (TIMER)
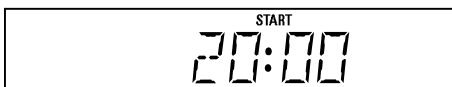
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```
             END
 22:00
```

⑤ Press **TIMER** ⏻ . The video recorder display will read, for instance, 'END *22:00*'.
If required, change the end time of the recording with **P↑+** , **P↓−** or the number buttons **0-9** on the remote control.
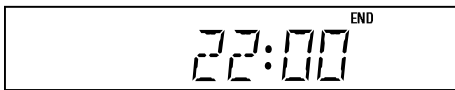

Programme number of the '*E1*' scart socket

You can also programme recordings from external sources (via scart socket **EXT.1 AV 1**).

---

⑥ When all information is displayed correctly, confirm with **TIMER** ⏻ .
'*OK*' will briefly flash in the video recorder display. The programming information is stored in a TIMER block.

⑦ Insert a cassette with an intact security tab (unprotected).

⑧ Switch off with **STANDBY/ON** ⏻ .
The programmed recording will only function when the video recorder is **switched off** with **STANDBY/ON** ⏻ .
If any of the TIMER blocks are in use, ' ⏻ ' will light up on the video recorder display.

Problem solving for programmed recordings

| PROBLEM	SOLUTION
The video recorder does not react	✓While a programmed recording is being made, you cannot operate your video recorder manually. If you want to cancel the programmed recording, press **STANDBY/ON** ⏻ .
A cassette was automatically ejected during recording	✓The end of the tape was reached during recording.
Error message: '*CASS*' ' ⏻ ' will flash in the video recorder display	✓No cassette was inserted. Insert a cassette and switch off the video recorder using **STANDBY/ON** ⏻ .
The '*PROT*' error message appears briefly in the display then the cassette is ejected	✓A cassette was inserted with the security tab removed. Undo the erase protection (chapter 'Manual Recording', section 'Preventing accidental erasing of cassettes') or insert a different cassette.
Error message: '*FULL*'	✓If this error message appears after pressing **TIMER** ⏻ , then all TIMER blocks are already programmed. No more recordings can be programmed. If you want to clear or check a programmed recording (TIMER block), select it with **P↑+** or **P↓−** .
'*ERR*' appears in the display	✓The data for the recording could not be transferred. Please check date, start time and end time of the programmed recording.

Programming a recording with 'TURBO TIMER'

With this function, programming a recording that takes place within the next 24 hours, will be quick and easy. The following pre-set information will appear in the display when you programme a recording using 'TURBO TIMER'.
Programme number = the programme number currently selected (TV channel)
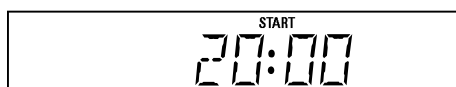Start time = current time
End time = current time +2 hours
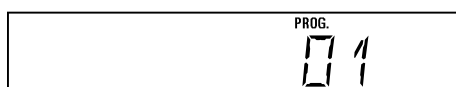
PROG.
01

1 Press **TURBO TIMER** on the remote control.
The current set programme number will appear in the display, for instance, 'PROG. 01'. If required, you can change this using **P↑+** or **P↓−** .

✗ 'CLK' **will flash in the video recorder display**
✓ This display means that the video recorder clock is not set correctly. Please read the section 'Setting the time and date' in chapter 'Installing your video recorder'

START
20:00

2 Press **TURBO TIMER** .
The current time (= start time) will appear in the display, for instance, 'START 20:00'. If required, you can change this using **P↑+** or **P↓−** .

END
22:00
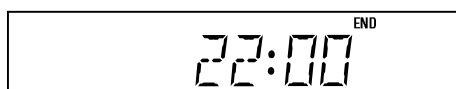
3 Press **TURBO TIMER** .
The end time will appear in the display, for instance, 'END 22:00'. 'END 22:00'. If required, you can change this using **P↑+** or **P↓−** .

4 Press **TURBO TIMER** .
'OK' will briefly appear in the video recorder display. Programming is now complete.

5 Insert a cassette with an intact security tab (unprotected).

6 Switch off with **STANDBY/ON** ⏻ .
The programmed recording will only function when the video recorder is **switched off** with **STANDBY/ON** ⏻ .
If any of the TIMER blocks are in use, ' ⏻ ' will light up on the video recorder display.

Programming a recording (TIMER)

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<div style="border: 2px solid black;">

Problems and solutions for programmed recordings

</div>

PROBLEM	SOLUTION
The video recorder does not react	✓While a programmed recording is being made, you cannot operate your video recorder manually. If you want to cancel the programmed recording, press **STANDBY/ON** ⏻ .
' ⏻ ' will flash in the video recorder display	✓The video recorder was switched on several minutes before the start of a programmed recording. Switch off the video recorder with **STANDBY/ON** ⏻ . A programmed recording (timer) will only function if the video recorder is switched off. ✓No cassette was inserted. Insert a cassette and switch off the video recorder using **STANDBY/ON** ⏻ .
Cassette is ejected during recording	✓The end of the tape was reached during recording.
The '_PROT_' error message appears briefly in the display then the cassette is ejected	✓A cassette was inserted with the security tab removed. Undo the erase protection (chapter 'Manual Recording', section 'Preventing accidental erasing of cassettes') or insert a different cassette.
Error message: '_FULL_'	✓If this error message appears after pressing **TIMER** ⏻ , then all TIMER blocks are already programmed. No more recordings can be programmed. If you want to clear or check a programmed recording (TIMER block), select it with **P↑+** or **P↓—** .

How to check, change or delete a programmed recording (TIMER)

1 Press **TIMER** ⏻ on the remote control.

2 Select the programmed recording (TIMER) you want to check, change or delete with **P ↓ —** or **P ↑ +** .


Delete programmed recording

Press **CLEAR (CL)** .
'--' appears rather than the displayed values
To end, press **MENU** .


DATE
01

3 Press **TIMER** ⏻ . The video recorder display will read, for instance, 'DATE *01*' for the date of the recording.
If required, change the displayed information in this step and the following steps using **P ↑ +** , **P ↓ —** or the number buttons **0-9** .

PROG.
01

4 Press **TIMER** ⏻ . The video recorder display will read, for instance, 'PROG. *01*' for the programme number of the TV channel.
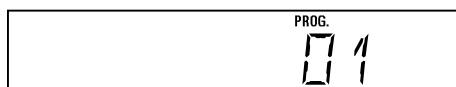
START
20:00

5 Press **TIMER** ⏻ .
The start time will appear in the video recorder display, e.g. 'START *20:00*'.

END
22:00
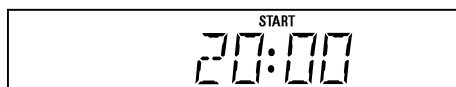
6 Press **TIMER** ⏻ .
The end time will appear in the video recorder display, e.g. 'END *22:00*'.
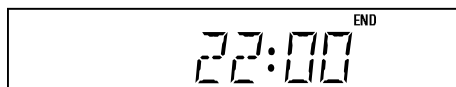
7 Press **TIMER** ⏻ . '*OK*' will briefly flash in the video recorder display.

8 Switch off with **STANDBY/ON** ⏻ .

Programming a recording (TIMER)

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9 Other functions

Changing the video (colour) system

If you play back recordings made on a different kind of tape, the automatic video (colour) system switch-over may lead to colour distortion.
You can manually switch off the video (colour) system for playback or switch off the colour.
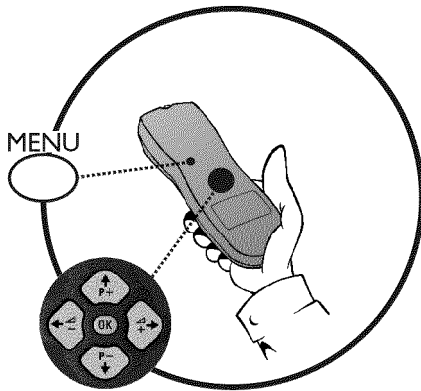
Video (colour) systems

Other countries, other video (colour) systems:
In central Europe transmissions are broadcast in the PAL system (Phase Alternation Line) standard. France uses SECAM (Séquentiel à mémoire). In some countries (USA and Japan), TV viewers receive their programmes as an NTSC signal (National Television System Committee).

1 **During playback** , press the **MENU** button on the remote control. '*CLK*' will appear in the display.

2 In the display, select '*SYST*' (switching video/colour system) with **P↑+** or **P↓−** . Confirm with **OK** .

3 Select the TV (colour) system with the least disruptions using **P↓−** or **P↑+** .
If colour interference still occurs, you can switch to '*B/W*' (black and white).

4 Confirm with **OK** .

5 To end, press **MENU** .

How can I change back to 'Automatic Switch-over'?

If you change the programme number, the video (colour) system for recording will switch itself back to '*AUTO*' (automatic switch-over).

If you eject the cassette, the video (colour) system for playback will switch itself back to '*AUTO*' (automatic switch-over).

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Other functions
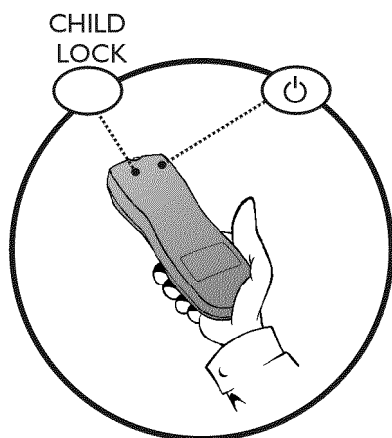
CHILD
LOCK

Child lock

You can prevent unauthorised use of your video recorder with this function. When the child lock is active, the buttons on the front of the device are blocked (will not function). You can make programmed recordings while the child lock is on.

1 With the video recorder switched on, press **CHILD LOCK** on the remote control for **five seconds**. ' σπ ' will appear on the video recorder display.

2 Put away the remote control somewhere out of reach of children.

3 If you want to switch off the child lock, press **CHILD LOCK** again for **five seconds**, with the video recorder switched on. ' σπ ' will disappear from the video recorder display.

×' σπ ' will flash in the video recorder display
✓ This symbol flashes when a button is pressed when the child lock is active.

Other functions

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Automatic switch-off

If you haven't used the video recorder for a few minutes in certain modes (e.g.: STOP), it will switch to standby automatically. You can cancel this function to use the video recorder as a television receiver.
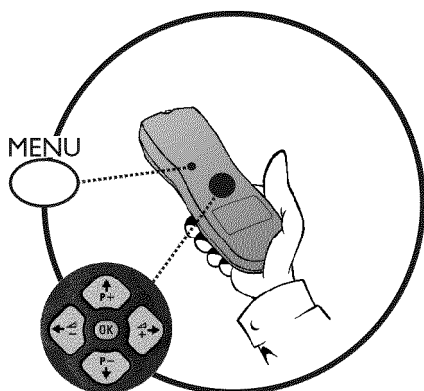
1 Press **MENU** on the remote control. '*CLK*' will appear on the display.

2 In the display, select '*AST*' (Automatic switch-off) with **P↓−** or **P↑+** and confirm with **OK** .

3 Select '*AST−*' (no automatic switch-off) or '*AST+*' (automatic switch-off) with the menu buttons **P↓−** or **P↑+** .

4 Confirm with **OK** .
'*OK*' will briefly flash in the video recorder display.

5 To end, press **MENU** .

Other functions

10 Suppressing interference
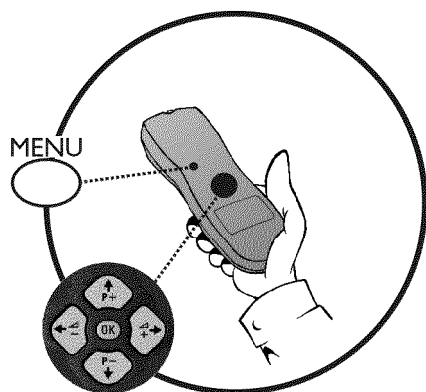
Optimising the modulator

In some reception locations it is possible that a TV channel will be sent on the same or similar frequency as the video recorder.
Result: As soon as the video recorder is switched on, the reception quality for this or several other TV channels will decreased.
The following steps will show you how to change the pre-set 'transmission' (modulator) frequency on the video recorder.

What is a modulator?

This electronic component in the video recorder allows the device to transmit audio and video signals via the aerial cable. These signals can be received TV set just like TV channels.

What is an modulator frequency?

This frequency or channel indicates the frequency or channel on which the audio or video signal is transmitted.

---

1 Switch on the TV set. Select the programme number used for video recorder playback (see TV operating instructions).

2 Press **STOP/EJECT ■/▲** to eject any cassette that might be in the device.

3 Press the **STOP ■** button on the remote control. Then press **STOP/EJECT ■/▲** until the pre-set modulator frequency, e.g. '*M5B3*' appears in the display.

The video recorder will now transmit a test image on UHF channel 35/Frequency 583MHz.

4 Change the modulator frequency with the **0-9** number buttons on the remote control.

5 Tune in the TV set to the new modulator frequency (channel 21 - 69) shown in the video recorder display.

6 Keep pressing **OK** until '*OK*' appears in the display.

Optimising the modulator is now complete.
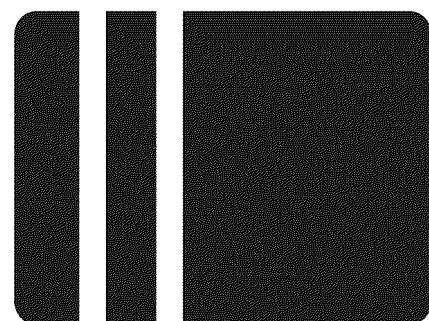
Switching the modulator on / off

If you cannot clear picture or sound interference despite optimisation, you can switch off the built-in modulator.

Warning:

this is only possible if you have connected the video recorder to the TV set with a scart cable. Without a scart cable you will not receive a picture from the video recorder on the TV set when the modulator is switched off.

1   Press **STOP/EJECT ■/▲** to eject any cassette that might be in the device.

2   Press the **STOP ■** button on the remote control. Then press **STOP/EJECT ■/▲** until the set modulator frequency, e.g. '*M583*' appears in the display.

3   Press **OK** . The display will read '*MOD+*' (modulator on).

4   In the display, select '*MOD-*' (modulator off) with **P ↑ +** .

How can I switch the modulator back on?

In the display, select '*MOD+*' (modulator on) with **P ↑ +** .

---

5   Keep pressing **OK** , until '*OK*' briefly appears in the display.
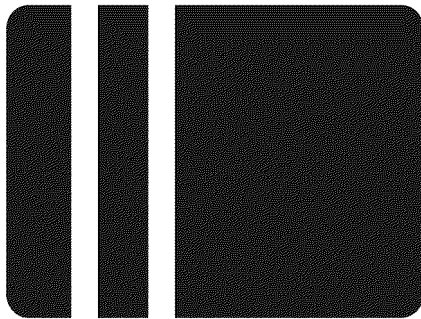
11 Before you call an engineer

If, contrary to expectation, you have any problems using this video recorder, it may be caused by the following reasons.
You will find the phone number in the enclosed guarantee leaflet.
The telephone numbers can be found on the back of this instruction manual. Have the model number (MODEL NO) and the production number (PROD.NO.) of your video recorder ready.

PROBLEM	SOLUTION
Your video recorder does not respond to any button being pressed:	✓There is no power supply: check the power supply. ✓A programmed recording is currently being made: if desired, cancel the programmed recording with **STANDBY/ON** ⏻ . ✓Child lock active: switch the child lock off. ✓There is a technical problem: disconnect from the mains power supply for 30 seconds, then connect again. If this doesn't help, you could reset your video recorder to the default factory settings.
Resetting devices to default factory settings	✓**Attention:** All the information stored (TV channels, time and date, TIMER) will be cleared. 1. Disconnect from the mains power supply. 2. Press and hold the **STANDBY/ON** ⏻/I button on the device and reconnect to the mains power supply. 3. Release the button when '--:--' or 'E1' appears in the video recorder display.
Cassette is jammed in the video recorder:	✓Don't use force. Pull out the mains plug for a moment.
Remote control does not work:	✓Remote control not pointed toward the video recorder: point it at the video recorder. ✓There is a technical problem: Take out the batteries, wait for 10 seconds and place them back. ✓Batteries have run out: change the batteries.
No picture when you play a cassette:	✓There is no recording on the cassette: change the cassette. ✓You have selected the wrong programme number on the TV for playing cassette: on the TV, select the correct programme number for the video recorder. ✓The cable connecting the TV set and the video recorder has come loose: check the cable.
Poor picture quality when you play a cassette:	✓Your TV set is not properly adjusted. ✓The cassette is badly worn or of poor quality: use new cassette. ✓Tracking is not properly adjusted: turn to chapter 'Eliminating picture interference' and read the section 'Optimising tracking'.
No recording possible:	✓The TV channel you want to record is not stored or you selected the wrong programme number: check TV channels stored. ✓A cassette was inserted that does not have the security tab (cannot be used to record): Insert a cassette with an intact security tab or change cassette. For more information, please see the section 'Preventing accidental erasing of cassettes' in chapter 'Manual Recording'.
Programmed recording does not work:	✓You have programmed the wrong time or date: check time and date. ✓You have not set the TIMER properly: Check the programmed recordings (TIMER block). ✓You have put in a cassette that cannot be recorded on: undo the erase protection on the cassette.
There is picture or sound interference on TV reception:	✓Turn to chapter 'Suppressing interference' and read 'Optimising the modulator' and 'Switching on/off the modulator'. ✓Have your aerial checked.

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