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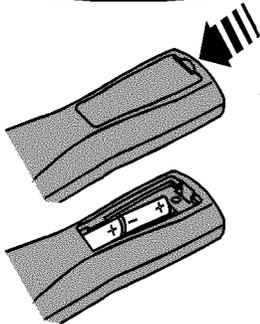
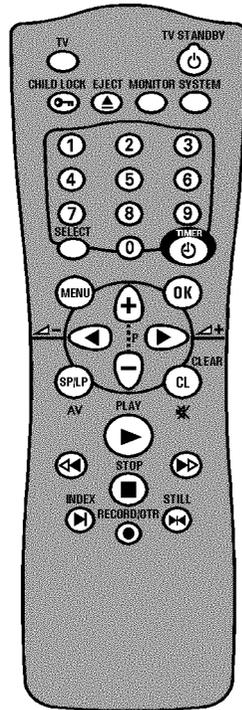
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# OPERATING INSTRUCTIONS IN BRIEF

## The remote control



**TV** To call up **additional TV functions** : Additional TV functions for TV sets with the same remote control code (RC5)

**TV/STANDBY** **Switch off** : To switch off set, interrupt menu function, interrupt a programmed recording (TIMER)

**CHILD LOCK** **No function**

**EJECT** **Eject**: To eject a cassette

**MONITOR** **TV monitor** : To switch between TV reception and VCR playback

**SYSTEM** **Switching the TV system**: To select the TV system while you record or play a cassette

**0-9** **Number buttons**: 0 - 9

**SELECT** **Select**: To select a function

**TIMER** **TIMER**: To make a manual TIMER programming with SHOWVIEW or to alter or clear a programmed TIMER

**MENU** **Menu** : To call up the main menu

**OK** **Store/Confirm**: To store or confirm entry

**Left Arrow** **Select**: Cursor left

**Right Arrow** **Select**: Cursor right

**P+** **Select**: One line or programme number up

**P-** **Select**: One line or programme number down

**SP/LP, AV** **SP/LP** : To select the recording speed (Long Play/Standard Play)

**CLEAR (CL), ✖** **Delete** : To delete last entry/Clear programmed recording (TIMER)

**PLAY** **Playback** : To play a recorded cassette

**Left Arrow** **Rewind** : During STOP and STANDBY: rewind, during PLAYBACK: reverse scanning

**STOP** **Pause/Stop**: To stop the tape, except while a TIMER-recording is being made

**Right Arrow** **Forward wind**: During STOP and STANDBY: forward wind, during PLAYBACK: forward scanning

**INDEX** **Index search**: In combination with **Left Arrow** / **Right Arrow** : to search for previous/next recording on the cassette.

**RECORD/OTR** **Record**: To record the programme selected

**STILL** **Still picture**: To stop the tape and show a still picture

### Additional TV functions

Press the **TV** button and the correct button on the remote control at the same time

**Left Arrow** **TV volume**: TV volume down

**Right Arrow** **TV volume**: TV volume up

**SP/LP, AV** To switch the TV to Audio-/Video input socket

**CLEAR (CL), ✖** **TV volume off**: To switch off the TV volume

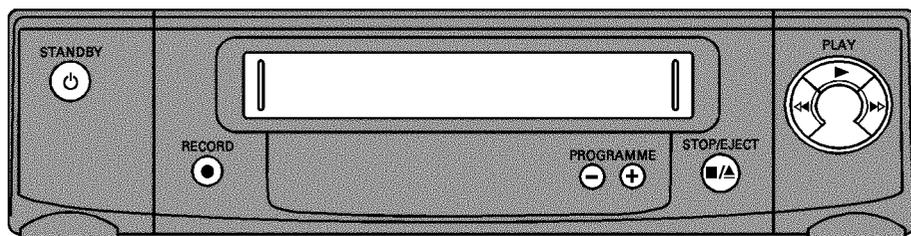
**TV/STANDBY** **Switch off** : To switch off set

**P+** **TV programme number** : TV programme number up

**P-** **TV programme number** : TV programme number down



## Front of the set



**STANDBY** **Standby** : To switch off, interrupt a function, interrupt a programmed recording (TIMER)

**RECORD** **Record**: To record the programme selected

**PROGRAMME -** **Select**: One line or programme number down.

**PROGRAMME +** **Select**: One line or programme number up.

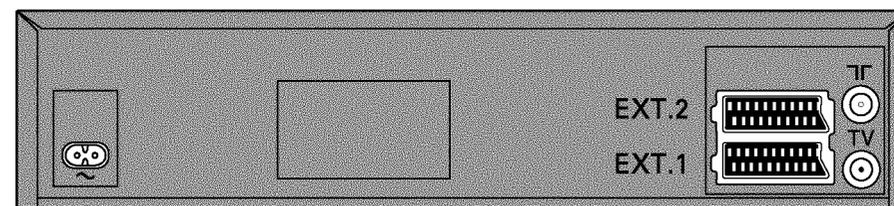
**STOP/EJECT** **Pause/Stop, eject cassette**: To stop the tape and eject the cassette

**Rewind** : During STOP and STANDBY: rewind, during PLAYBACK: reverse scanning

**PLAY** **Playback** : To play a cassette

**Forward wind**: During STOP and STANDBY: forward wind, during PLAYBACK: forward scanning

## Back of the set



**Mains socket**: To connect the mains cable

**EXT.2 AV 2** **Scart socket 2**: To connect a satellite receiver, decoder, video recorder, etc. (programme number 'E2')

**EXT.1 AV 1** **Scart socket 1**: To connect the TV set (programme number 'E1')

**Aerial input socket**: To connect the aerial cable

**Aerial output socket**: To connect the TV set

# Remote codes

Acura	02	GoldStar	15, 20, 27	Proline	31
Adyson	20	Goodmans	07, 10, 20, 29, 36	Protech	02, 12, 20, 23, 25, 38
Akai	18, 33	Gorenje	35	Quelle	03, 04, 33
Akura	21, 25	Graetz	33	Questa	07
Alba	02, 07, 21	Granada	10, 18, 20	Rank Arena	07
Allorgan	28	Grandin	26	Rediffusion	33
Amplivision	20	Grundig	17	Rex	25
Amstrad	02	HCM	02, 26	Roadstar	02, 21, 25, 38
Anitech	02	Hanseatic	30, 33	SEG	07, 20, 25
Arcam	19, 20	Hinari	02, 07, 21	SEI	12, 28
Asuka	21	Hisawa	26, 40	Saba	15
Audiosonic	15	Hitachi	05, 07, 08, 13, 15, 20, 22	Saisho	02, 04, 25
BPL	26	HuanYu	19, 36	Salora	33
BSR	28	Hypson	25, 26	Sambors	12
BTC	21	ICE	20, 25	Samsung	01, 02, 20, 25, 27, 35
Basic Line	02, 21	ICeS	21	Sandra	19
Baur	03, 33	ITT	33	Sanyo	04, 07, 10, 18
Beko	35	Imperial	23, 35, 38	Schaub Lorenz	33
Binatone	20	Inno Hit	10	Schneider	21, 23, 37
Blaupunkt	17	Interfunk	23, 33	Sei-Sinudyne	03
Blue Sky	21	Intervision	12, 20, 25	Sentra	06
Blue Star	26	Isukai	21	Sharp	07, 11
Bondstec	23	JVC	07, 09	Shorai	28
Boots	20	Kaisui	02, 19, 20, 21, 26	Siarem	12
Brandt	15	Kathrein	01	Siemens	17
Britannia	19	Kingsley	19	Silver	07
Bush	02, 07, 21, 26, 28, 36, 42	Koyoda	02	Sinudyne	12, 28
CGE	23	Leyco	10, 25, 28	Solavox	05
CS Electronics	19	Lloytron	05	Sonitron	18
CTC	23	Luxor	33	Sonoko	02
Carrefour	07	M Electronic	02, 13, 15, 20, 32, 36, 41	Sonolor	18
Cascade	02	Magnadyne	12, 23	Sony	03, 04, 07
Cimline	02	Magnafon	12	Soundwave	38
Clatronic	23, 35	Manesth	20, 25, 30	Standard	02, 20, 21
Condor	30, 35	Marantz	01	Sunkai	28, 31
Contec	02, 07, 19	Matsui	02, 04, 06, 07, 10, 18, 20, 28, 39	Susumu	21
Crown	02, 35, 38	Memorex	02	Tandy	10, 20, 21
Cybertron	21	Metz	34	Tashiko	07, 20
Daewoo	02, 36	Mitsubishi	07, 14, 16	Tatung	10, 20
Dainichi	21	Mivar	19, 27	Tec	20, 23
Dayton	02	Multitech	02, 12, 19	Technema	30
De Graaf	18	Neckermann	01	Technics	24
Decca	10	Nikkai	05, 06, 10, 19, 21, 25	Telefunken	15
Dixi	02	Nobliko	12	Telemeister	30
Dual	42	Nokia	33, 41	Teletech	02
Dual Tec	20	Nordmende	15	Teleton	20
Elite	21, 30	Oceanic	33	Tensai	21, 28, 29, 30
Elta	02	Orion	28, 30, 31	Textet	19, 21
Emerson	33	Osaki	05, 10, 20, 21, 25	Thomson	15
Ferguson	15	Oso	21	Thorn	06, 10, 33
Fidelity	19, 33	Osume	05, 10	Tomashi	26
Finlandia	18, 32	Otake	29	Toshiba	06, 07
Finlux	10, 13, 32	Otto Versand	01, 03, 07, 20, 30	Uher	30
Firstline	02, 19, 20, 23, 28, 31	Palladium	35, 38	Ultravox	12
Fisher	18, 20, 35	Panama	20, 25	Universum	13, 25, 32, 35
Flint	40	Panasonic	24, 34	Videosat	23
Formenti	30	Pathe Cinema	19, 30	Videotechnic	20
Frontech	23, 25	Pausa	02	Visa	02
Fujitsu	10	Perdio	30	Vision	30
Funai	25, 28	Phase	05	Waltham	20
GEC	10, 20	Philco	23	Watson	30
GPM	21	Philips	01, 36	Watt Radio	12
Geloso	02	Pioneer	15	Wega	07
Genexxa	21	Profex	02, 33	White Westinghouse	19, 30
				Yoko	20, 25

# OPERATING INSTRUCTIONS PHILIPS VR400/58

**Congratulations!** You now own one of the most sophisticated and simple-to-use video recorders (VCR) on the market. With this VCR you can record and play VHS-standard cassettes.



Please take the time to read this operating manual before using your video recorder.

So that you can identify your machine in the event of theft, enter the serial number (PROD.NO) here. The serial number is printed on the type plate fixed at the rear of the set.

MODEL NO. VR400/58

PROD.NO: . . . . .

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

## Safety instructions and other notes

-  **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. When the appliance is connected to the power supply there are some components that are constantly operational. To switch off the video recorder completely you must disconnect it from the power supply.
-  Make sure that air can circulate freely through the ventilation slots on the video recorder.
-  Make sure that no objects or liquids enter the video recorder. If liquid is spilt into it, disconnect the video recorder immediately from the power supply and call the After-sales Service for advice.
-  The video recorder should **not be used immediately after transportation** from a cold to a hot area or vice versa, or in conditions of extreme humidity.  
After unpacking the video recorder, it should be allowed to **acclimatize for at least three hours** before installation.
-  These operating instructions have been printed on nonpolluting paper.
-  Deposit old batteries at the relevant 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 equipment contains many materials that can be recycled. Please inquire about the possibilities for recycling your old set.
-  SHOWVIEW is a registered trademark of Gemstar Development Corporation. SHOWVIEW is manufactured under licence from Gemstar Development Corporation.

## Technical information

- Measurements in cm (W / H / D):** 38.0 / 9.3 / 26.0
- Power consumption (Standby):** less than 6W (Saving energy mode)
- Voltage :** 220-240V/50Hz
- Number of heads :** 4 Video
- Winding time:** approx. 100 seconds (Cassette E-180)
- Recording/Playback time :** SP (Standard Play) 4 hours (Cassette E-240) / LP (Long Play) 8 hours (Cassette E-240)



# SHOWVIEW®

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## Special functions on your video recorder

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### **Digital Studio Picture Control**

Philips has developed a system which produces the best possible playback quality. It reduces disturbance on old, worn video cassettes, and emphasises the detail on very good quality cassettes.

### **Plug & Play**

When you connect your video recorder to your television and plug it into the mains, you will be welcomed with an OSD picture. All you have to do is follow the instructions in the "intelligent help line" for the next step. Enjoy the Automatic TV channel search/save function and the automatic time adjustment.



### **Automatic Satellite Recording**

We guarantee that your video recorder will switch to the new millennium with no problems whatsoever.

Recordings made on your video recorder can be controlled by an external satellite receiver.

### **Follow TV**

This function automatically transfers all the television channel settings onto your video recorder.

### **Direct Record**

Your video recorder can ascertain which channel is currently playing on your television and record from it at the touch of a button.

### **SHOWVIEW®**

Simple programming system for video recorders. Makes programming as easy as making a telephone call. Simply enter the programme code which you will find in your listings magazine.

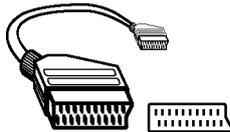
### **TURBO ▼DRIVE**

The precision tape drive from Philips with short rewind times and automatic tape length recognition.

# 1. HOW TO CONNECT YOUR VIDEO RECORDER

## How to connect your video recorder to the TV set

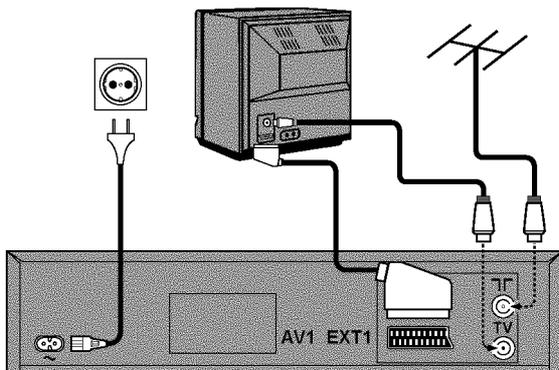
We recommend the use of a scart cable. This will give you the best picture and sound quality.



When you install your video recorder for the first time, please read:

- If your TV set has a scart socket and you are using a scart cable, please read the section 'Connecting with a scart cable'.
- The section 'Connecting without a scart cable', when you **don't** use a scart cable.

### Connecting with a scart cable



- 1** Switch off the TV set.
- 5** Remove the aerial cable plug from your TV set and insert it into the  socket at the back of the video recorder.
- 3** Plug one end of the aerial cable provided into the  socket on the video recorder and the other end into the aerial input socket on your TV set.
- 3** Plug one end of the scart cable into the  scart socket at the back of the video recorder and the other end into the scart socket on your TV set (see instruction manual TV set).
- 3** Switch on the TV set.

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

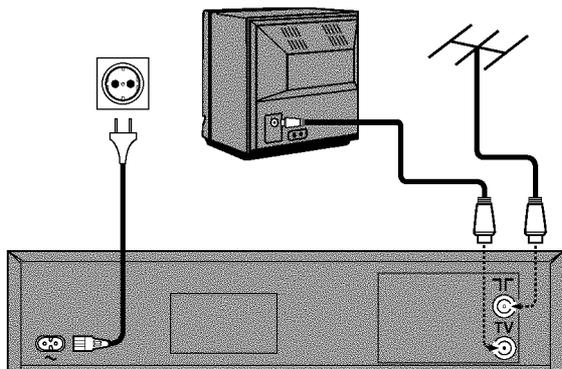
- 5** When your TV set **automatically switches** to programme number e.g.: 'EXT', '0', or 'AV', this text will appear on the TV screen:



- i** If your TV set does not switch to programme number e.g.: 'EXT', '0', or 'AV' automatically, select the programme number for the video recorder manually (see instruction manual TV set).

- 6** Then read 'Initial installation' in chapter 'INSTALLING YOUR VIDEO RECORDER'.

## Connecting without a scart cable

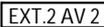


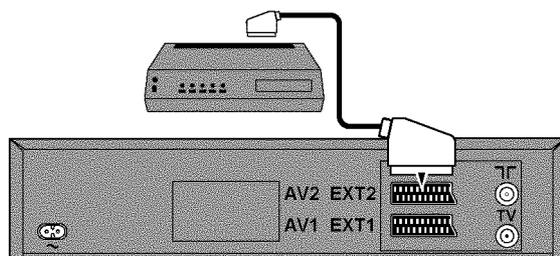
- 1 Switch off the TV set.
- 5 Remove the aerial cable plug from your TV set and insert it into the  socket at the back of the video recorder.
- 3 Plug one end of the aerial cable provided into the  socket on the video recorder and the other end into the aerial input socket on your TV set.
- 3 Insert one end of the mains cable into the mains socket  at the back of the video recorder and plug the other end into the wall socket.
- 3 Switch on your TV set and select the programme number that you have chosen for video playback (see instruction manual TV set).
- 4 Tune in the TV set in the UHF wave band until the following picture appears.
  - i The video recorder will now send on channel CH36/frequency 591MHz:



- 5 Then read 'Initial installation' in the chapter 'INSTALLING YOUR VIDEO RECORDER'.

## Connecting a decoder or other equipment

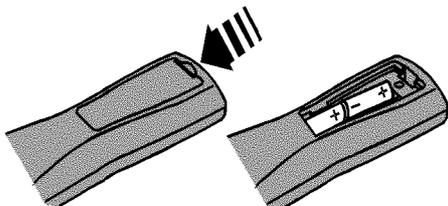
You can connect additional equipment to the  socket. For example: a decoder, a satellite receiver or a camera recorder.



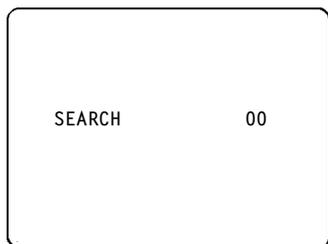
## 2. INSTALLING YOUR VIDEO RECORDER

### Initial installation

- 1** Open up the battery compartment of your remote control and place the batteries in it as shown in the picture.

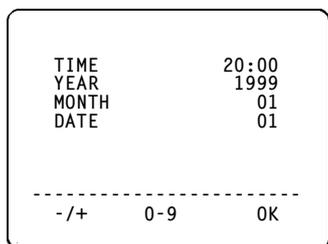


- 5** Close the battery compartment.
- 3** Confirm the picture on the TV screen with the **OK** button on the remote control.
- 3** Select the language for the on-screen display (OSD) with the **P-** or **P+** button.  
The display on the video recorder will only show English text.
- 3** Confirm with the **OK** button.  
'Automatic TV channel search' starts. This picture will appear on the screen:



Wait until all TV channels have been found. This can take several minutes.

- 4** When all TV channels have been found, 'READY' will appear on the TV screen.
- 'TIME', 'YEAR', 'MONTH', 'DATE' will appear on the TV screen.



- 5** Check if the TIME in line 'TIME' is correct. If required, change the time with the number buttons **0-9** on your remote control.

- 6** Confirm with the **OK** button.

- 8** Check 'YEAR', 'MONTH' and 'DATE'. Confirm each line with the **OK** button.

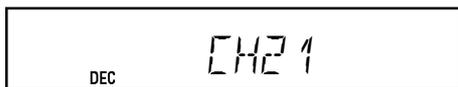
- 7** After you have confirmed the line 'DATE', the video recorder will switch to standby.  
The initial installation is now complete.

- i** If you have connected a decoder, you must install it as described in the next section.
- i** If you have connected a satellite receiver, please read the section 'satellite receiver'.

## Allocating a decoder

Some TV stations will send coded TV channels, that you can only watch when you use a decoder. You can connect such a decoder (descrambler) to your video recorder. With the following function, the connected decoder will automatically be activated for the TV programme you want to watch.

- 1 Switch on the TV set. If required, select the programme number for the video recorder.
- 5 Choose the television channel on which you wish to use the decoder with the **[P+]** or **[P-]** buttons on the video recorder or the number buttons **[0-9]** on the remote control.
- 3 Press the **[MENU]** button on the remote control. The main menu will appear.
- 3 Select the line 'MANUAL SEARCH' with the **[P+]** or **[P-]** button.
- 3 Confirm with the **[OK]** button.
- 4 Press the **[INDEX▶]** button. 'DEC' will appear in the display.

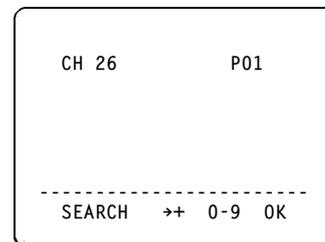


- 5 Confirm with the **[OK]** button.
- 6 To end, press the **[OK]** button again. Then, press the **[TV/STANDBY⏻]** button. This channel is now assigned to the decoder.

## Manual TV channel search

In certain cases the 'Automatic TV channel search' may not be able to find all of the TV channels (e.g. coded TV channels). In that case, use this manual method to set the channels.

- ▶ When you search for TV channels manually, you can choose between the indication for 'channel' or 'frequency'. Please read the next paragraph 'Channel number or frequency display'.
- 1 Switch on the TV set. If required, select the programme number for the video recorder.
- 5 Press the **[MENU]** button on the remote control. The main menu will appear.
- 3 Select the line 'MANUAL SEARCH' with the **[P+]** or **[P-]** button and confirm with the **[OK]** button.



- 3 Hold the **[P+]** button until you have found the right TV channel. A changing channel number or frequency will appear on the screen.
  - ▶ If you know the frequency or channel number of the desired TV channel, you can enter the information in line with the number buttons **[0-9]** on the remote control.
  - ▶ To enter a special/hyperband channel, you must enter a '9' before the first channel digit. The indication changes from 'CH' to 'CA'. For example, for special channel 'S 30', enter '9 30'.
  - ▶ If the picture or sound quality is poor, you might have selected the wrong TV system. Press the **[SYSTEM]** button to change the TV system.
- 3 Confirm with the **[OK]** button.
- 4 With the **[P+]** or **[P-]** button or with the number buttons **[0-9]**, select the programme number you want to give to this TV channel, for instance, 'P01'.
- 5 Confirm with the **[OK]** button. If you want to allocate more TV channels, repeat steps 3 through 5.
- 6 To end, press the **[TV/STANDBY⏻]** button.



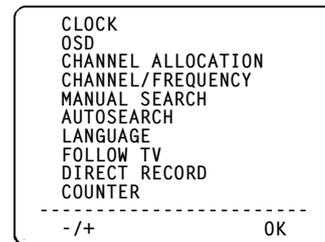
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## Channel number or frequency display

You can switch between the display for 'channel number' or 'frequency' for manual channel search.

- 1 Switch on the TV set. If required, select the programme number for the video recorder.
- 5 Press the **MENU** button on the remote control. The main menu will appear.
- 3 Select the line 'CHANNEL/FREQUENCY' with the **P-** or **P+** button and confirm with the **OK** button.
- 3 With the **P+** button, select 'CHANNEL' or 'FREQUENCY' and confirm with the **OK** button.
- 3 To end, press the **TV/STANDBY** button.

- 5 Press the **MENU** button on the remote control. The main menu will appear.



- 3 Select the line 'FOLLOW TV' with the **P-** or **P+** button.
- 3 Press the **OK** button. 'TV01' will appear on the video recorder display.



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## Satellite receiver

You can receive channels from the satellite receiver via the scart socket **EXT.2 AV 2**.

To do this, select the channel number 'E2' by pressing the buttons **P+** or **P-**. You will have to select the channels to be received by the satellite receiver on the receiver itself.

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## Special installation functions

You can select one of the following installation functions in order to adapt the video recorder to your own specific requirements.

### Automatic TV channel allocation (Follow TV)

With this function, the video recorder stores the channels in the same order as on the TV set. This only works if the video recorder (socket **EXT.1 AV 1**) and the TV set are **connected with a scart cable**. You must **switch off** any equipment connected to socket **EXT.2 AV 2**.

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

- 3 Select programme number '1' on the TV set.

- 4 Confirm with the **OK** button on the video recorder-remote control. The video recorder compares the TV channels on the TV set and the video recorder. If the video recorder found the same TV channel as the TV set, then it stores it at 'P01'.

**i** When 'NOTV' (no signal from TV set) appears in the display, the TV channels can not be allocated automatically. In this case, read 'Manual TV channel allocation'.

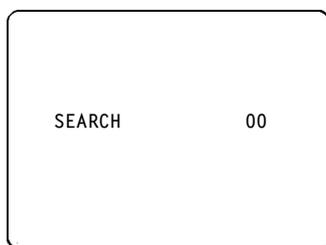
- 5 Wait until, for example, 'TV02' appears.
- 6 Select the next programme number, for example, '2' on the TV set.
- 8 Confirm with the **OK** button on the video recorder-remote control.

**i** If you allocated the wrong TV channel, you can go back one step with the **◀/▶-** button.
- 7 Repeat steps 5 to 8 until all TV channels have been allocated.
- 3 To end, press the **TV/STANDBY** button.

## Automatic TV channel search

The video recorder will search for all TV channels. If you want to start the automatic TV channel search again, then follow the instructions below.

- 1 Switch on the TV set. If required, select the programme number for the video recorder.
- 5 Press the **MENU** button on the remote control. The main menu will appear.
- 3 Select the line 'AUTOSEARCH' with the **P-** or **P+** button.
- 3 Press the **OK** button. The 'Automatic TV channel search' starts.



- 3 When the TV channel search is complete, 'READY' will appear on the screen.

How to search for a TV channel manually, you can read in the section 'Manual TV channel search'.

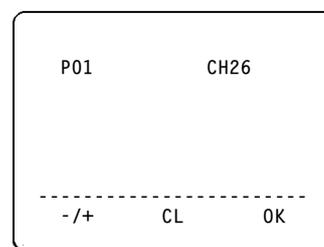
## Monitor function

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

## Sorting and clearing TV channels manually

You can assign any programme number to a TV channel that you have stored and you can also delete unwanted TV channels.

- 1 Switch on the TV set. If required, select the programme number for the video recorder.
- 5 Press the **MENU** button on the remote control. The main menu will appear.
- 3 Select the line 'CHANNEL ALLOCATION' with **P-** or **P+** button and confirm with the **OK** button.



- 3 With the **P-** or **P+** button, select the TV channel to which you want to give a programme number (starting with 'P01').
- 3 Confirm with the **OK** button.
  - i If you want to delete a TV channel, press the **CLEAR (CL)** button.
- 4 Repeat steps 3 to 3 until you have given a programme number to all TV channels.
- 5 To end, press the **TV/STANDBY** button.



## Setting the language

You can select the language for the on-screen display (OSD). The small display on the video recorder will only show English text.

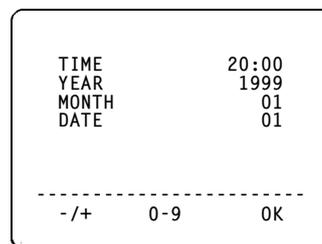
- 1 Switch on the TV set. If required, select the programme number for the video recorder.
- 5 Press the **MENU** button on the remote control. The main menu will appear.
- 3 Select the line 'LANGUAGE' and confirm with the **OK** button.
- 3 Select your language with the **P-** or **P+** button and confirm with the **OK** button.
- 3 To end, press the **TV/STANDBY** button.

## Setting the time and date

- i**▶ If a TV channel which transmits TXT/PDC is stored under programme number 'P01', time and date will automatically be taken from the TXT/PDC information.

If the time in the video recorder display is not correct or if '- : -' appears in the display, please set the clock manually.

- 1 Switch on the TV set. If required, select the programme number for the video recorder.
- 5 Press the **MENU** button on the remote control. The main menu will appear.
- 3 Select the line 'CLOCK' with the **P-** or **P+** button and confirm with the **OK** button.



- 3 Check the time in line 'TIME'. If required, please change the time with the **0-9** buttons on the remote control.
- 3 Confirm with the **OK** button.
- 4 Check 'YEAR', 'MONTH' and 'DATE' in the same way. Confirm each entry with the **OK** button.
- 5 To end, press the **TV/STANDBY** button.

### 3. IMPORTANT NOTES FOR OPERATION

#### General information

-  You can switch on with the  button, the  buttons or by putting in a cassette.
-  If you do not use the video recorder for a few minutes, it will switch to standby automatically. Please read the section 'Automatic switch-off (tuner mode)' in chapter ADDITIONAL FUNCTIONS.
-  If you have switched the video recorder off with the  button, the time will show in the display, for instance , '18:00'. If the clock has not been set, '- - : - -' will appear.
-  Keep your video recorder connected to the mains at all times to ensure that programmed recordings can be made and that the television works normally.
-  When the video recorder is not plugged into the mains, it will usually store TV channels for a year, and date and timer information for seven hours.

#### Saving energy

There are two ways to switch to standby.

**Switching to standby with clock display:** Switch to standby using the  button. The time will be displayed.

**To save energy:** Press the  button twice. The time will disappear from the display.

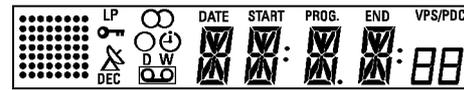
#### Emergency interrupt

You can use the  button on the video recorder or the remote control to interrupt any function.

So if you are having operating problems, you can just interrupt the function and start again.

And you can practise operating your set without any worries. No matter which buttons you press, you cannot damage it.

#### The symbols on your video recorder display



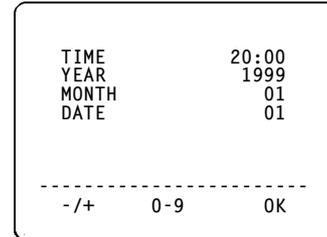
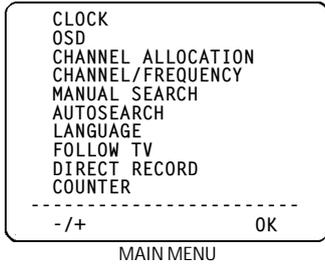
These symbols can light up on your video recorder display:

-  This is where the current operating mode is shown as a symbol.
-  When a satellite recording has been programmed.
- DEC** When a decoder has been allocated to the TV channel you have currently selected.
-  When you are recording a programme.
-  When you have programmed a recording or when a programmed recording is being made.
- D** When you have programmed daily recordings.
- W** When you have programmed weekly recordings.
-  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.
- VPS/PDC** Video programming system / programme delivery control: when a VPS or PDC code is being transmitted.
-  Display of programme number / tape position / channel name / function.
- 88** Tape position in seconds, but only if the display mode 'LINEAR COUNTER' has been selected.



## Summary of user guide

The OSD menu offers the following functions. More details on each can be found in the appropriate chapter.

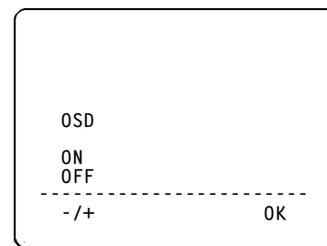
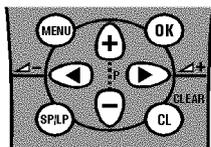


Chapter: INSTALLING YOUR VIDEO RECORDER - 'Setting the date and the time'

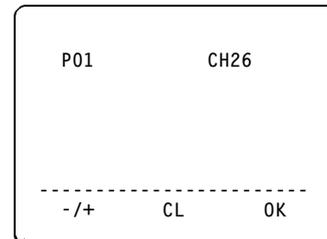
### User guide (OSD)

The OSD (On-screen display) shows the various functions in the form of a menu on the television screen. You can then choose the settings you require. There is a summary of the menus on this page. The main button functions are displayed in a help line along the bottom of the screen.

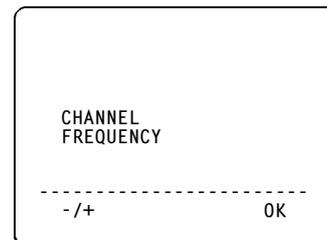
- To call up the menu:** With the **[MENU]** button.
- To select a line:** With the **[P-]** or **[P+]** button.
- To enter or change your selection:** With the **[0-9]**, **[P-]** or **[P+]** button.
- To cancel:** With the **[MENU]** button.
- To save or confirm:** With the **[OK]** button.
- To close the menu:** With the **[TV/STANDBY]** button.



Chapter: ADDITIONAL FUNCTIONS - 'Switching OSD Information on or off'



Chapter: INSTALLING YOUR VIDEO RECORDER - 'Sorting and clearing TV channels manually'

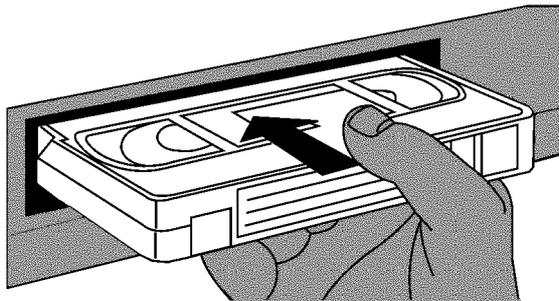


Chapter: 'INSTALLING YOUR VIDEO RECORDER - 'Channel number or frequency display'

## 4. PLAYBACK FUNCTIONS

### Playing a cassette

- 1 Put a cassette into the cassette slot. 'C' will appear on the display.



- 5 Press the **PLAY ▶** button.
- 3 To stop, press the **STOP ■** button.
- 3 To eject the cassette, press the **STOP/EJECT ■/▲** button on the video recorder.
  - i Some functions switch off automatically after a while (for example, pause, still picture, picture search). This helps to protect the cassette and avoids wasting power.

### Playing NTSC cassettes

With this set you can playback cassettes that have been recorded on another video recorder in the NTSC standard (for example, American cassettes). But this only works for PAL-television sets which are suitable for a picture frequency of 60 Hz.

- i Some special features (for example, still picture) are not possible while you are playing an NTSC cassette.

### Tape position indication

By pressing the **OK ▶** button, you can show the present tape position on the TV screen.

If you want to see the tape position, you can select 'LINEAR COUNTER' (to show the present position on the tape in hours, minutes and seconds) or 'TIME LEFT'.

- i When you play an NTSC cassette, the video recorder will only show 'LINEAR COUNTER'.
- 1 Switch on the TV set. If required, select the programme number for the video recorder.

- 5 Press the **MENU** button on the remote control. The main menu will appear.
- 3 Select the line 'COUNTER' with the **P+** or **P-** button and confirm with the **OK** button.
- 3 Select the type of counter with the **P+** button and confirm with the **OK** button.
  - i To reset the tape position 'LINEAR COUNTER' to '0:00:00', press the **CLEAR (CL), ✖** button.
- 3 To end, press the **TV/STANDBY ⏻** button.
  - i This video recorder will automatically recognise the length of the tape.
  - i When you put a cassette in the video recorder and you want to see 'TIME LEFT', the video recorder must first calculate the time played. Therefore, '-:--' appears first and only after the tape has been running for a few seconds the playing time will be shown.
  - i If the video recorder does not find a recording at a certain tape position with 'LINEAR COUNTER' switched on, the counter will stop.

### Searching for tape position with the picture (picture search)

- 1 While a cassette is playing, press the **◀◀** (reverse) or **▶▶** (forward) button once or several times.
- 5 To stop at a certain picture, press the **PLAY ▶** button.
  - i During picture search, the picture quality may not be so good and there will be no sound.

### Still picture/Slow motion

- 1 Press the **STILL ▶◀** button. A still picture will appear on the screen.
- 5 Each time you press **STILL ▶◀** again, the picture will move on one step.
- 3 When you hold the **STILL ▶◀** button, the tape will be played in slow motion.
- 3 When you press the **▶▶** button several times, you have a choice of several playback speeds. During slow motion there will be no sound.



---

## Searching for tape position without the picture (wind and rewind)

- 1 Stop the tape with the **[STOP ■]** button.
- 5 Press the **[◀◀]** (reverse) or **[▶▶]** (forward) button.
- 3 To stop at a certain picture, press the **[STOP ■]** button.

## Instant View

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

- 1 If you hold the **[◀◀]** (rewind) or **[▶▶]** (wind) button during wind or rewind, you will switch to picture search.
- 5 When you release the button, the video recorder will automatically switch back to rewind or wind.

## Automatic search for a tape position (index search)

At the start of each recording, the video recorder will write an index code on the tape.

- 1 Press the **[INDEX▶]** button and then the **[▶▶]** button to select the next code mark or the **[◀◀]** button for the previous code mark.
- 5 When the video recorder finds the code mark, it will automatically switch to play.

## Automatic search for a blank space on the tape

You can search for a space on the tape (at least 1 minute of blank tape) for a new recording, for example, after an existing recording on the tape.

- 1 Press the **[INDEX▶]** button. Then press the **[STOP ■]** button.
- 5 When the video recorder find a blank space, it will automatically switch to 'pause'.
  - i If no empty space has been found when the end of the tape is reached, the cassette will be ejected.

---

## Picture interference

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When the picture quality is poor when you play a cassette, please follow these instructions.

## Tracking during playback

- 1 While a cassette is playing, hold the **[P+]** button until 'TRAC' (tracking) appears on the display.
- 5 Hold the **[P-]** or **[P+]** button until the picture quality is at its best.
- 3 Wait a few seconds, until 'TRAC' disappears from the display. This picture setting will not change until you eject the cassette.

## Tracking during still picture

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

- 1 During still picture, hold the **[P+]** or **[P-]** button until the picture quality is at its best.

The video recorder will store this setting automatically.

  - i Please note, however, that interference may still occur with poor quality cassettes.

## Cleaning the video heads

If horizontal lines appear on the screen when you play a cassette, you should clean the video heads.



- 1 While a cassette is playing, hold the **[PLAY▶]** button until 'HEAD' appears on the display. The video heads will now be cleaned. The video recorder will automatically switch to play again.

## 5. MANUAL RECORDING

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

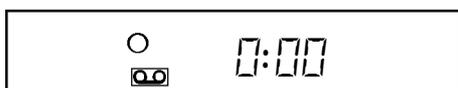
- If you want to start and stop a recording manually, read the section: 'Recording without automatic switch-off'.
- If you want to start a recording manually but have it stopped automatically, read the section: 'Recording with automatic switch-off'.
- If you want to record a programme currently being shown, read the section 'Direct record'.
- If you want a recording to be controlled automatically by a satellite receiver, read the section entitled 'Automatic recording from a satellite receiver'.

### Recording without automatic switch-off

- 1** Insert a cassette.
- 5** Use the **[P+]** or **[P-]** button to select the programme number you want to record, for example, 'P01'. On the display appears:



- i** When the function 'DIRECT RECORD' is switched on, the video recorder will automatically record the TV programme selected on the TV set.
  - i** When a TV channel transmits a channel name, it will show on the video recorder display.
  - i** Programme numbers 'E1' and 'E2' are for recording from other sources (through scart sockets **[EXT.1 AV 1]** and **[EXT.2 AV 2]**).
- 3** To start recording, press the **[RECORD/OTR ●]** button on the remote control or **[RECORD ●]** on the video recorder. On the display you will see:



- 3** Stop recording with the **[STOP ■]** button.

### Recording with automatic switch-off (OTR one-touch-recording)

- 1** Put a cassette in the machine.
- 5** Use the **[P+]** or **[P-]** button to select the programme number you want to record.
- 3** Press the **[RECORD/OTR ●]** button on the remote control.
- 3** Press the **[RECORD/OTR ●]** button again and again until the display on the video recorder shows the desired end time or length of the recording.
- i** To cancel this information, press the **[CLEAR (CL), ✕]** button.

### Protecting your recordings

So that you don't accidentally delete an important recording, remove the special tab on the narrow side of the cassette with a screwdriver or slide the special tab to the left. Later, if you no longer want to protect your recording, you can seal the gap again with sticky tape or slide the special tab to the right.

### Auto-assembling

You can use the auto-assembling function to join individual recordings without any major picture disturbance between them.

- 1** While the cassette is playing, search for the correct position on the tape.
- 5** Stop the cassette by pressing the **[STOP ■]** button. 'II' will appear in the display.
- 3** Now start recording as usual by pressing the **[RECORD/OTR ●]** button on the remote control.

### Selecting the recording speed (SP or LP)

You can reduce the recording speed by half. This makes it possible to record, for example, eight-hours instead of four-hours on an 'E240' (four-hour) cassette.

- 1** Switch on the TV set and, if required, select the programme number for the video recorder.



- 
- 5 With the video recorder switched on, and **before you start recording**, select the recording speed with the **[SP/LP, AV]** button. On the video recorder display you will see: 'LP': Long Play = half recording speed (double recording time).  
'SP': Standard Play = normal recording speed.

- i The picture quality may suffer when you record at half speed (LP).
- i When you play back your recording, the machine will automatically select the correct speed.

---

## Automatic recording from a satellite receiver (SAT RECORDING)

---

You can only use this function, when you have a satellite receiver which can control other equipment by a 'programming' function.

- 1 Use a scart cable to connect the scart socket **[EXT.2 AV 2]** to the scart socket on the satellite receiver.
- 5 Put a cassette in the machine. Switch off with the **[TV/STANDBY ⏻]** button on the remote control.
- 3 Hold the **[MONITOR]** button on the remote control, until 'SAT.P' appears on the video recorder display. The video recorder is now ready to record. The **[EXT.2 AV 2]** plug controls the start and the end of the recording.
  - i When this function is switched on and the video recorder is switched off, '⏻' appears on the video recorder display.
  - i If you want to cancel this function **before** the recording has started, you must hold the **[MONITOR]** button until 'SAT.P' disappears.
  - i If you want to cancel this function **while** a programme is being recorded, press the **[TV/STANDBY ⏻]** button on the remote control.

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## Switching on 'Direct Record'

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When this function is switched on, the video recorder will automatically record the programme selected on the television by means of a scart cable.

- i **The video recorder must be switched off .**
- 1 Switch on the TV set and select the programme number for the video recorder.
  - 5 Press the **[MENU]** button on the remote control. The main menu will appear.
  - 3 Select the line 'DIRECT RECORD' with the **[P-]** or **[P+]** button.
  - 3 Confirm with the **[OK]** button.
  - 3 Select the function 'ON' with the **[P+]** button. If you select 'OFF', the function will be switched off.
  - 4 Confirm with the **[OK]** button.
  - 5 On the TV set, select the programme number you want to record from.
  - 6 Press the **[RECORD/OTR ●]** button with the video recorder **switched off**.
    - i Don't select another programme number on your TV set, until the 'search symbol' on the video recorder display has disappeared. This can take up to one minute.
    - i If 'NOTV' appears on the video recorder display, this means the video recorder cannot find this programme number. In this case, read the section 'Recording without automatic switch-off'.



- 4 Confirm with the **[OK]** button when the information is correct.
  - i The programming information has been stored in a TIMER block.
- 5 Select the recording speed SP or LP with the **[SP/LP, AV]** button..
- 6 Make sure that the cassette you have put in can be recorded on.
- 8 Switch off with the **[TV/STANDBY ⏻]** button.
 

The programmed recording will only function when the video recorder is **switched off** with the **[TV/STANDBY ⏻]** button.

  - i If any of the TIMER blocks are in use, '⓪' will lights up on the video recorder display.
  - i While a programmed recording is being made, you cannot operate your video recorder manually. If you want to cancel the programmed recording, press the **[TV/STANDBY ⏻]** button.
  - i If the video recorder is switched on a few minutes before a programmed recording is supposed to begin, 'TIMER RECORD' will flash on the TV screen.
  - i If you reach the end of the cassette during a recording, the video recorder will automatically eject the cassette.
  - i If you forget to load a cassette, 'NO CASSETTE' will appear on the TV screen and '⓪' will flash on the video recorder display.
  - i If you have put in a cassette which cannot be used for recording, the video recorder will automatically eject it.
  - i If 'TIMER FULL' appears on the TV screen when you press the **[TIMER]** button, you have used up all the available TIMER blocks. If you want to clear or check a TIMER block, select it with the **[P+]** or **[P-]** button.
  - i Programme numbers 'E1' and 'E2' are for recordings from other sources (through scart socket **[EXT.1 AV 1]** or **[EXT.2 AV 2]**).

## Programming a recording (without 'SHOWVIEW')

- 1 Switch on the TV set and select the programme number for the video recorder.
- 5 Press the **[TIMER]** button on the remote control **twice** .
- 3 Select a free TIMER block with the **[P+]** or **[P-]** button. Press the **[TIMER]** button.

DATE	PROG	START	V/P	END
01	01	20:00		21:30
-----				
NEXT	→TIMER	CLEAR	→CL	
-/+	0-9	D/W	→SELECT	OK

- 3 With the **[TIMER]** , **[▶/◀+]** or **[◀/▶-]** button you can select 'DATE' (date), 'PROG' (programme number), 'START' (start time) and 'END' (end time). Enter or change your information with the **[P+]** or **[P-]** button, or with the number buttons **[0-9]** .
  - i Under 'DATE', use the **[SELECT]** button to select daily or weekly programming.
    - 'D': Recording from Monday to Friday.
    - 'W': Recordings every week on the same day.
  - i Under 'START', use the **[SELECT]** button to switch 'VPS or PDC' on or off.
- 3 Confirm with the **[OK]** button when the information is correct.
  - i The programming information has been stored in a TIMER block.
- 4 Make sure that the cassette you have put in can be recorded on.
  - i Use the **[SP/LP, AV]** button to select the recording speed 'SP' or 'LP'.
- 5 Switch off with the **[TV/STANDBY ⏻]** button.
 

The programmed recording will only function when the video recorder is **switched off** with the **[TV/STANDBY ⏻]** button.

  - i If any of the TIMER blocks are in use, '⓪' will lights up on the video recorder display.

-  While a programmed recording is being made, you cannot operate your video recorder manually. If you want to cancel the programmed recording, press the **TV/STANDBY** button.
-  If the video recorder is switched on a few minutes before a programmed recording is supposed to begin, 'TIMER RECORD' will flash on the TV screen.
-  If you reach the end of the cassette during a recording, the video recorder will automatically eject the cassette.
-  If you forget to load a cassette, 'NO CASSETTE' will appear on the TV screen and '⊖' will flash on the video recorder display.
-  If you have put in a cassette which cannot be used for recording, the video recorder will automatically eject it.
-  If 'TIMER FULL' appears on the TV screen when you press the **TIMER** button, you have used up all the available TIMER blocks. If you want to clear or check a programmed recording (TIMER block), select it with the **P+** or **P-** button.
-  Programme numbers 'E1' and 'E2' are for recordings from other sources (through scart socket **EXT.1 AV 1** or **EXT.2 AV 2**).

-  The programmed recording will only function when the video recorder is **switched off** with the **TV/STANDBY** button.
-  The video recorder will always record the programmed recording at the speed you have selected **before** the recording starts.

---

## How to clear a programmed recording (TIMER)

---

-  Switch on the TV set and select the programme number for the video recorder.
-  Press the **TIMER** button on the remote control **twice**.
-  Select the programmed recording (TIMER) you want to clear with the **P-** or **P+** button.
-  Press the **CLEAR (CL)** button.
-  Confirm with the **OK** button.




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## How to check or change a programmed recording (TIMER)

---

-  Switch on the TV set and select the programme number for the video recorder.
-  Press the **TIMER** button on the remote control **twice**.
-  Select the programmed recording (TIMER) you want to check or change with the **P+** or **P-** button.
-  Press the **TIMER** button.
-  Select the entry field with the **◀/▶-** or **▶/▶+** button.
-  Change any information with the **P-** or **P+** button or with the **0-9** buttons.
-  Confirm with the **OK** button.
-  Make sure that the cassette you have put in can be recorded on. Switch off with the **TV/STANDBY** button.

## 7. ADDITIONAL FUNCTIONS

### Switching the TV system

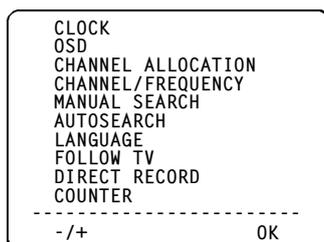
If you play recordings made on another video recorder or if you record from another source, this may lead to problems with the automatic TV system switch-over. You can switch off the automatic TV system switch-over as follows.

- 1 Select the TV system with the **SYSTEM** button **before** you start recording, or **while** you play a cassette.
- 5 If you select a different programme number or eject the cassette, the video recorder will automatically switch to 'automatic' again.

### Setting the on-screen display (OSD)

You can switch the on-screen display of the current operating information on or off.

- 1 Switch on the TV set and select the programme number for the video recorder.
- 5 Press the **MENU** button on the remote control. The main menu will appear.

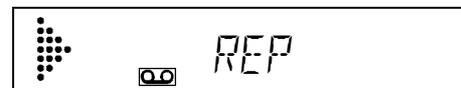


- 3 Select the line 'OSD' with the **P-** or **P+** buttons and confirm with the **OK** button.
- 3 Select one of the options shown with the **P+** button.  
'ON': Shows the OSD for a few seconds only.  
'OFF': Switches off the OSD.
- 3 Confirm with the **OK** button.

### Continuous playback

You can automatically play a cassette again and again. When the video recorder reaches the end of the tape or the end of the recording, it will rewind and start again.

- 1 Put a cassette in the machine.
- 5 Press the **PLAY** button.
- 3 Press the **MONITOR** button on the remote control and the **PLAY** button on the video recorder at the same time. On the video recorder display you will see:



- 3 If you want to cancel continuous playback, repeat step 3.
- i During continuous playback, no other button will work. After a power failure, playback will automatically start again.

### Automatic switch-off (tuner mode)

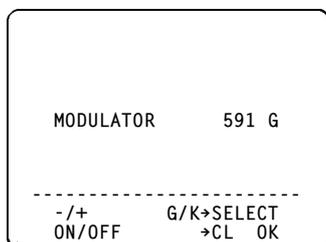
If you do not use the video recorder for a few minutes in certain modes (e.g.: STOP), it will switch to standby automatically. You can cancel this function to use the video recorder as a television receiver (tuner).

- 1 Hold the **STOP** button until **⏸** appears on the video recorder display.
- 5 Select the programme number you want with the **P-** or **P+** button or with the number buttons **0-9**.
- 3 Switch off the video recorder with the **TV/STANDBY** button, if you no longer want to watch TV.

## Reducing picture disturbance ('optimizing the modulator')

You may experience picture disturbance if you have not used a scart cable to connect your video recorder and TV. This is because another TV station in your reception area may already be using UHF-channel CH36 or 591MHz.

- 1 Make sure that there is **no** cassette in the video recorder. With the video recorder **switched off** hold the **SYSTEM** button for a few seconds until the modulator frequency, for example, 'G591' (591 Mhz or channel 36) appears on the video recorder display. The video recorder will then transmit a test picture channel or frequency.



- 5 Change the modulator frequency with the **P-** or **P+** button.

- 3 Confirm the new modulator frequency with the **OK** button.

- 3 Tune in the TV set to this channel or frequency.

- 3 To end, press the **TV/STANDBY** button.

**i** If the picture or sound quality is poor, you may have selected the wrong TV system. At step **1**, select the TV system 'G591' for PAL-B,G or 'K591' for SECAM-D,K, using the **SELECT** button. Press the **SYSTEM** button for several seconds, until, for example, 'G591' appears on the video recorder display. If you want to switch the modulator on again, hold the **CLEAR (CL)** button, until 'G591' (Modulator switched on) appears on the display.

- 4 To end, press the **TV/STANDBY** button.

## Switching off the modulator

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

You should only do this if you have connected the video recorder to the TV set with a scart cable. 'Connecting VCR without scart cable' is not possible when the modulator is switched off.

- 1 Switch on the TV set and select the programme number for the video recorder.

- 5 Make sure that **no** cassette is in the video recorder. Press the **SYSTEM** button for several seconds, until, for example, 'G591' appears on the video recorder display.

- 3 Hold the **CLEAR (CL)** button, until 'MOFF' (modulator off) appears on the video recorder display. If you want to switch the modulator on again, hold the **CLEAR (CL)** button, until 'G591' (Modulator switched on) appears on the display.

- 3 To end, press the **TV/STANDBY** button.



## 8. Before you call an engineer

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If, contrary to expectation, you have any problems using this video recorder, it may be caused by one of the reasons mentioned below. You can also call the **customer service centre** in your country.

You will find the phone number in the enclosed guarantee leaflet.

### 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: cancel the programmed recording with the **TV/STANDBY** button.
- Continuous playback is on: switch the continuous playback off.
- There is a technical problem: switch off the mains power supply for 30 seconds, then switch it on again. If this does not have any effect, you can:
  1. Switch off the mains power supply again.
  2. Then switch it on **whilst holding down** the **STANDBY** button on the video recorder.
  3. Release the button when 'MENU' appears on the video recorder display. All the information stored (TV channels, time and date, TIMER) will be cleared.

### 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.
- Batteries have run out: change the batteries.
- You have given the wrong remote control command: read 'Switching remote control command' in chapter 'Additional functions'.

### No picture when you play a cassette:

- There is no recording on the cassette: change the cassette.
- You have chosen 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 badly worn or of poor quality: use new cassette.
- Tracking is not properly adjusted or the video heads are dirty: turn to chapter 'PLAYBACK' and read the section 'Cleaning the video heads'.

### The video recorder will not record:

- The TV channel you want to record is not stored or you selected the wrong programme number: check TV channels stored.
- You have loaded a cassette which cannot be recorded on: undo the erase protection on the cassette.

### Programmed recording does not work:

- You have not set the TIMER properly: check the TIMER blocks.
- You have programmed the wrong time or date: check time and date.
- You have put in a cassette that cannot be recorded on: undo the erase protection on the cassette.
- 'PDC' or 'VPS' switched on but 'PDC/VPS time' wrong: enter PDC or VPS time exactly to the minute. Have your aerial checked.
- After a 'programmed recording with 'SHOWVIEW', the programme number of the TIMER block will not agree with the required programme number: when you have confirmed the SHOWVIEW programming number, confirm the TIMER block by pressing the **TIMER** button. Then change the programme number displayed in the 'PROG' entry field and confirm by pressing the **TIMER** button.

### There is picture or sound interference on TV reception:

- Turn to chapter 'ADDITIONAL FUNCTIONS' and read 'Poor TV reception - optimising the modulator' and 'Switching off the modulator'.
- Have your aerial checked.

## 9. GLOSSARY

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### Technical terms used

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**Current tape position** : The part of the tape currently being played.

**External source** : A device connected via a socket (for example, scart socket) which is transmitting audio/video signals to the video recorder.

**Index marking** : A marking which is automatically made on the tape at the beginning of every recording. This marking (recording ID) can be searched for with the Index search function.

**Scart cable** : Also known as a Euro-AV cable. This standard cable is an easy method of connecting various audio and video devices, computer screens and televisions. Other signals in addition to audio and video signals can be transmitted on it.

**TV system** : There are various systems for transmitting television signals, for example, PAL, SECAM, PAL BG, SECAM DK, SECAM L/L, NTSC etc. The system used by your television depends on which country you are in.

**TXT** : Also known as Teletext, Fasttext, Videotext, FLOF etc.

**OTR** : One touch recording. This function enables you to select the switch-off time in intervals of 30 minutes.

**Modulator** : An electronic component in a video recorder which allows audio and video signals to be transmitted via the aerial cable. Your television receives the signal in the same way as a signal from a television station.

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

**UHF frequency range** : Channels 21 to 69. The video recorder 'broadcasts' on channel 36/frequency 591 MHz. This frequency or channel can be changed. See the section 'Reducing picture disturbance ('optimizing the modulator').

**OSD (On-screen display)** : The largest possible display area for the video recorder - the screen on your television set.

