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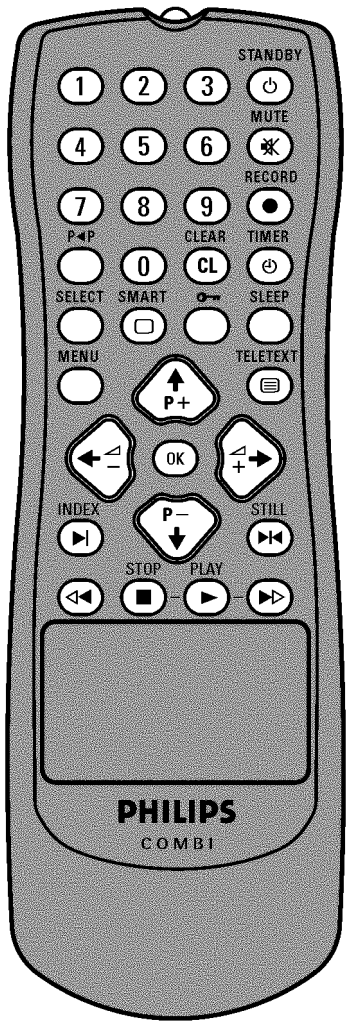
OPERATING INSTRUCTIONS IN BRIEF

The remote control



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

STANDBY **Standby** : Turn machine off, cancel current function.
Press for more than 3 seconds: cancel current recording

MUTE **Volume off**: To switch the volume on or off

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

P◂P **Previous programme number**: To select the respective previously selected programme number

CLEAR (CL) **Delete** : Delete last entry (data)

TIMER **TIMER**: To programme recordings (e. g. with Video Plus+) or to alter/clear programmed TIMER recordings

SELECT **Red button / select functions** : e.g.: in the Timer overview , select TELETEXT function

SMART **Green button / select TELETEXT function**

Yellow button / parental control : To switch parental control on/off , select TELETEXT function

SLEEP **Blue button / sleep timer**: to select the switch-off time in 15 minutes intervals , select TELETEXT function

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

TELETEXT **TELETEXT**: To switch TELETEXT on or off

P + **Select**: Next programme number / in the menu: next line

P – **Select**: Previous programme number / in the menu: previous line

Select: Reduce volume / in the menu: to the left or to select settings/values

Select: Increase volume / in the menu: to the right or to select settings/values

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

INDEX **Index search**: Search for the previous/next recording code on the tape in combination with ◁◀ / ▶▷

STILL **Still picture**: Stop the tape and show the current picture as a still picture

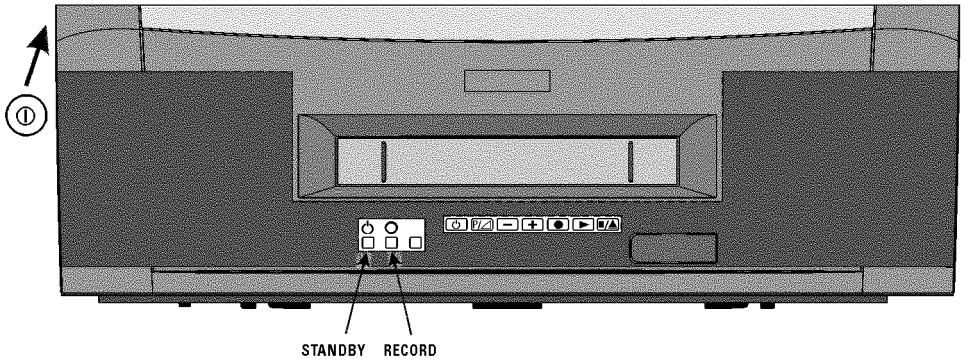
◁◀ **Rewind** : During STOP or STANDBY: rewind, during PLAYBACK: reverse picture search

STOP **Pause/Stop**: Stop the tape, except with programmed recordings (TIMER)
Press for more than 3 seconds, eject tape

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

▶▷ **Forward wind**: During STOP or STANDBY: forward wind, during PLAYBACK: forward picture search

Front of the set



⏻ **Power switch**: To switch off the machine
Caution: If you switch off using the power switch, TIMER-recordings are not possible!

⏻ **Standby** : Switch machine off, cancel current function.
Press for more than 3 seconds: cancel current recording

P / **Volume**: In connection with the button +, − to regulate the volume

− **Programme number minus**: previous programme number

\+ **Programme number plus** : next programme number

● **Record**: To record the programme currently selected

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

■/▲ **Pause/Stop, eject cassette**: To stop the tape; when STOP is pressed, the cassette will be ejected from the machine

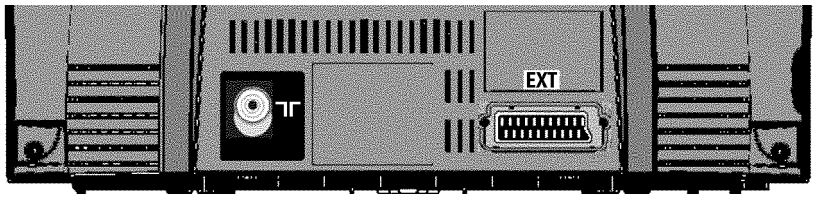
Sockets on the front :

white socket AUDIO **Audio input socket** : To connect a camcorder or video games (audio)

yellow socket VIDEO **Video input socket** : To connect a camcorder or video games (video)

small socket 🎧 **socket for headphones** : To connect headphones

Back of the set



Aerial input socket: To connect the aerial cable

EXT **Scart socket**: To connect a satellite receiver, decoder, video recorder, etc.

The control lights at the front of the machine

STANDBY ◉ **Standby light**: lights up when the TV-Video Combi has been switched on by means of the main switch; it blinks when a button is pressed on the remote control

RECORD ◉ Recording light lights up during recording, Timer recording; blinks when timer recording is unable to start

OPERATING INSTRUCTIONS PHILIPS 20PV230/07

Thank you for buying a PHILIPSTV-Video Combi. The 20PV230/07 is one of the most sophisticated and simple-to-use TV video recorders (TV-Video Combi) on the market. With this device you can record and play VHS-standard cassettes.

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

So that you can identify your machine in the event of theft, enter the serial number here. You will find this serial number (PROD.NO:) on the model plate at the back of the machine:

MODEL NO.	**20PV230/07**
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 open!
There is a risk of an electrical shock!

The machine does not contain any components that can be repaired by the customer. When the TV-Video Combi is connected to the power supply there are some components that are constantly operational. To switch off the TV-Video Combi completely you must switch it off with the power switch.

Make sure that air can circulate freely through the ventilation slots on the machine. We recommend to leave approx. 5 cm of space all around your machine to ensure proper ventilation.

Make sure that no objects or liquids enter the machine. If liquid is spilt into it, immediately disconnect the machine from the power supply and call the After-sales Service for advice.

The machine should **not be brought into a warm room** directly following a transport from a cold room or vice versa. Also, do not use machine in extremely high humidity conditions.
After unpacking the TV-Video Combi, it should be allowed to **acclimatise for at least three hours** before installation.

These operating instructions have been printed on non-polluting paper.

Deposit old batteries at the respective collection points.

Please make use of the facilities available in your country for disposing of the packaging 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.

VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VIDEO Plus+ system is manufactured under licence from Gemstar Development Corporation.

Interference

The Department of Trade and Industry operates a Radio Investigation Service to help TV licence holders improve reception of BBC and ITC programmes where these are being spoilt by interference.
If your dealer cannot help, ask at a Main Post Office for the booklet 'How to Improve Television and Radio Reception'.

Technical information

Voltage : 198-264V/ 50Hz
Power consumption : 53W
Power consumption (Standby): less than 4W

Measurements in cm (W/H/D): 50,6/51.8/49.2
Weight without packaging in kg: 21
Headphones : Output resistance less/equal than 120 Ohms
maximum output voltage more than 2,0V at 120 Ohms
Winding time: Forward/rewind approx. 260/170 seconds
(Cassette E-180)
Number of video heads: 2
Recording/Playback time: **4 Hours** (Cassette E-240)
8 Hours (LP) (Cassette E-240)

List of accessories

- Operating instructions
- Remote control and batteries

Emergency interrupt

The machine and the remote control have an 'emergency interrupt'. You can use the button STANDBY ⏻ to interrupt any function. If you want to interrupt a running recording, hold the STANDBY ⏻ button for several seconds.
Every time you are having operating problems, you can just interrupt the function and start again.
You can practise operating your set without any worries. No matter which buttons you press, you cannot damage the machine in any manner.

Special functions on your TV-Video Combi

SmartClock

If a TV channel which transmits Teletext/PDC is stored under programme number 'P01', time and date will automatically be taken from Teletext/PDC information.

DIGITAL STUDIO PICTURE CONTROL

Philips has developed a system which produces the best possible playback quality. The interferences are reduced in old, frequently used video cassettes. The details are enhanced with very good cassettes.

Plug and Play

When you have plugged your TV-Video Combi 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 channel search/store.

VIDEO Plus+

Simple programming system for TV-Video Combis. Makes programming as easy as making a telephone call. Enter the respective programme number. You will find this number in your favourite listings magazine.

2 TUNERS RECORD & VIEW

Your TV-Video Combi has been equipped with two tuners (receivers). This enables you to watch a programme on the screen while you are recording another programme.

LongPlay

The tape speed for the recordings is cut in half, thus you can record 8 hours onto a 4-hour-cassette. For playback, the correct recording speed will automatically be selected.

NTSC PLAYBACK

With this set you can playback cassettes that have been recorded on another video recorder in the NTSC standard (for example, American cassettes). Switching between the different TV Systems takes place automatically.

SleepTimer

The TV-Video Combi shuts itself off automatically after a certain pre-programmed time period has elapsed (max. 4 hours).
Sleep timer settings can be programmed in steps of 15 minutes each.

1. CONNECT THE TV-VIDEO COMBI

Important for the United Kingdom

This apparatus is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug proceed as follows:

1. Remove fuse cover and fuse.
2. Fix new fuse which should be a BS1362 5A, A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.
If the mains plug contains a fuse, this should have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

Note: * The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.

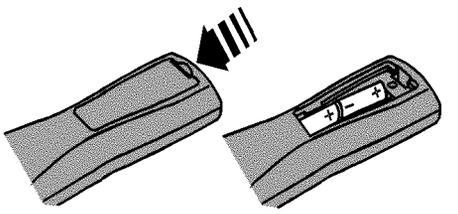
How to connect a plug:
The wires in the mains lead are coloured in accordance with the following code:
BLUE - 'NEUTRAL' ('N')
BROWN - 'LIVE' ('L')

4. The BLUE wire must be connected to the terminal which is marked with the letter 'N' or coloured BLACK.
5. The BROWN wire must be connected to the terminal which is marked with the letter 'L' or coloured RED.
6. Do not connect either wires to the earth terminal in the plug which is marked with the letter 'E' or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not imply over the two wires.

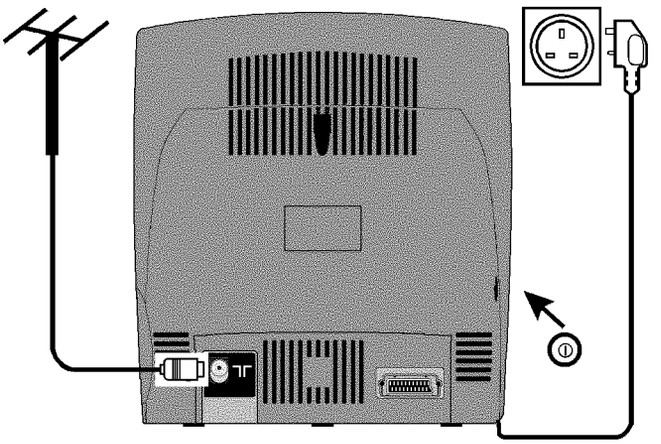
Placing the batteries in the remote control

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



2. Close the battery compartment.

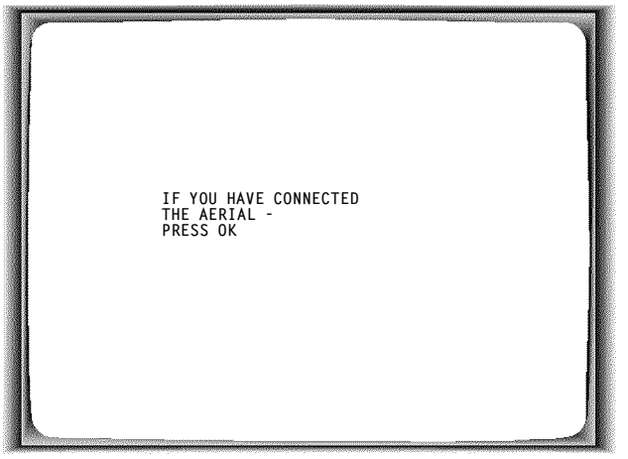
Connecting the cables



1 Insert the aerial plug into the socket.

2 Insert the plug of the mains cable into the wall socket.

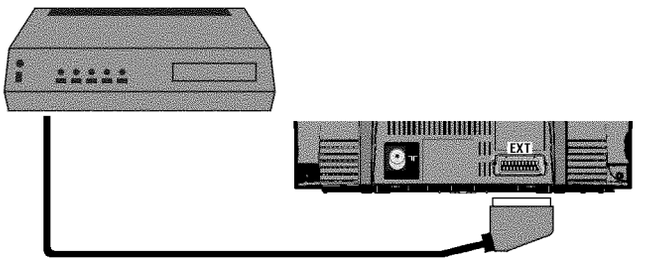
3 If the little red standby light (STANDBY ◉) at the front panel of the set is not lit, please switch on the set using the main power switch. The power switch ⏻ is located on the left side panel of the set.
This text will appear on the TV screen.



4 Then, read the section 'Initial installation' in the chapter 'INSTALLING YOUR VIDEO RECORDER'.

Connecting a decoder or other equipment

You can also connect additional equipment to the EXT socket; for instance, a decoder, satellite receiver or camcorder.

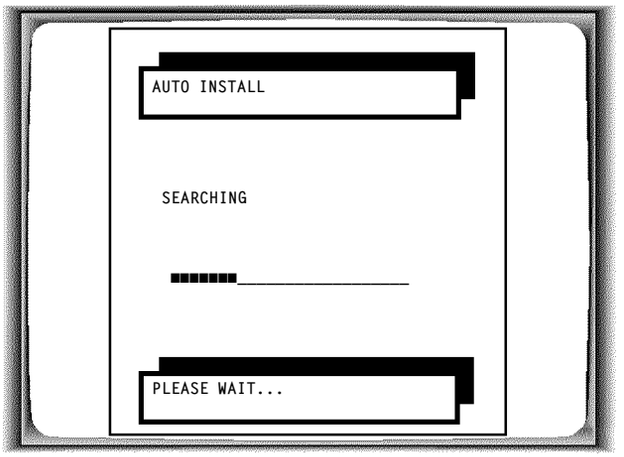


The respective scart socket is usually marked 'AV' or 'VCR' on the decoder or satellite receiver.

2. INSTALLATION

Initial installation

1 After you have connected the aerial, confirm the picture on the TV screen with OK on the remote control. 'Autoinstall' starts. This picture will appear on the screen:



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

2 When Autoinstall is complete, 'STORED' will briefly appear on the TV screen.
The initial installation is now complete.

i If 'YEAR', 'MONTH', 'DATE', 'TIME', appear on the screen, date/time could not be transferred from the teletext information.
Change the data using the number buttons 0..9 on the remote control.
Select the lines using P − or P +.
When all information is correct, confirm with OK.

i If you have connected a satellite receiver, please read the section 'satellite receiver'.

i If you have connected a decoder, you must install it as described in the next section.

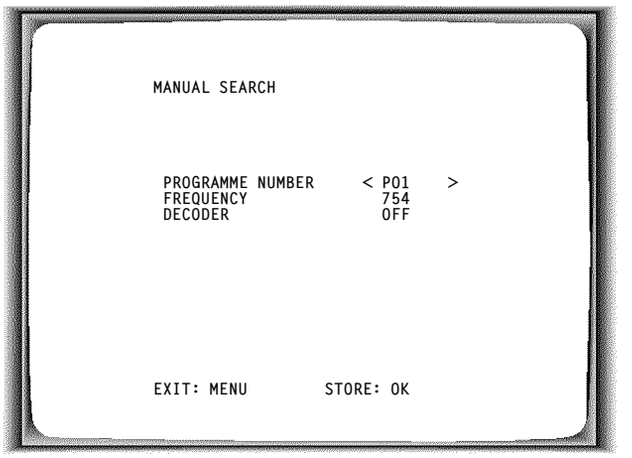
Allocating a decoder

Some TV stations will send coded TV channels, that you can only watch when you use a purchased or hired decoder. You can connect such a decoder (descrambler) to your TV-Video Combi. With the following function, the connected decoder will automatically be activated for the TV channel you want to watch.

1 Select the TV channel for which you want to use the decoder with the P +, P − button on the TV-Video Combi or the number buttons 0..9 on the remote control.

2 Press the MENU button on the remote control. The main menu will appear.

3 Select the line 'MANUAL SEARCH' with the menu buttons P + or P − and confirm with the ◿+→ button.



4 Select the line 'DECODER' with the menu buttons P − or P +.

5 Select 'ON' with the menu buttons ←◿− or ◿+→.

i When you select 'OFF', the decoder will not be allocated.

6 Confirm with the OK button.

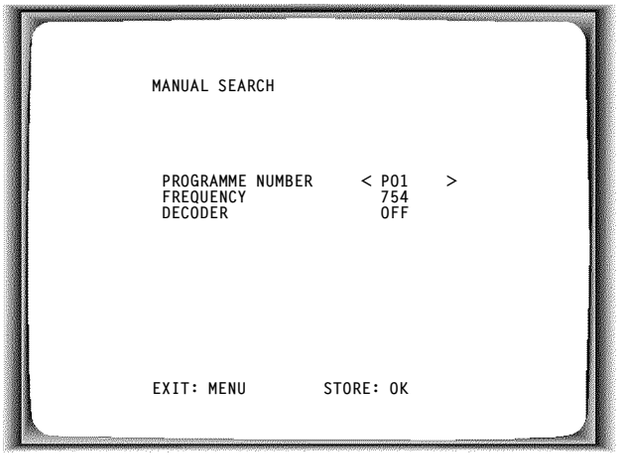
7 To end, press the MENU button.
Your decoder has now been allocated to this TV channel.

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.

1 Press the MENU button on the remote control. The main menu will appear.

2 Select the line 'MANUAL SEARCH' with the [P −] or [P +] button and confirm with the [◿+→] button.



3 In the line 'PROGRAMME NUMBER', select the function with the buttons [←◿−] or [◿+→] or use the number buttons '[0..9]' on the remote control to select the desired programme number, e.g.: 'P01'.

4 Select the line 'FREQUENCY' with the menu buttons [P −] or [P +].

5 Enter the frequency of the desired TV channel with the number buttons [0..9].

If you don't know the frequency of the desired TV channel, press [◿+→] in line 'FREQUENCY' to start the automatic search.
Repeat automatic search until you have found the desired TV channel. A changing frequency number will appear on the TV screen.

6 If you want to allocate a decoder, in line 'DECODER' select 'ON' using the button [◿+→].

7 To store the TV channel, press [OK]. 'STORED' will briefly appear on the TV screen.

If you would like to search for more TV channels, start again at step 2.

8 To end, press the [MENU] button.

Satellite receiver

You can receive channels from the satellite receiver via the scart socket [EXT].

1 To do this, select the channel number 'E1' using the button [0] on the remote control. You will have to select the channels to be received by the satellite receiver on the receiver itself.

2 Use the number buttons [0..9] on the remote control to select the channels on the TV-Video Combi.

Special installation functions

You can select one of the following installation functions in order to adapt your TV-Video Combi to your own specific requirements.

Automatic TV channel search (Autoinstall)

Your TV-Video Combi will search for all TV channels. It arranges them in the following sequence into memory: BBC1, BBC2, ITV, CH4, CH5, SKY, others.

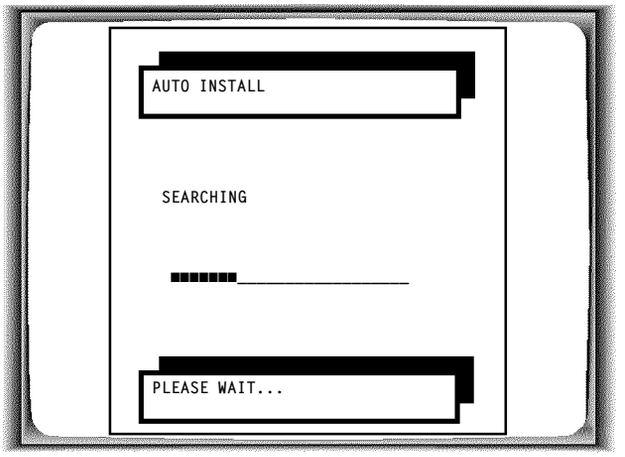
When you start this function, existing programmed recordings may be deleted.

If you want to start the automatic TV channel search again, follow the instructions below.

1 Press the [MENU] button on the remote control. The main menu will appear.

2 Select the line 'AUTO INSTALL' with the menu buttons [P −] or [P +].

3 Press the [◿+→] button. 'Autoinstall' starts.



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

4 When Autoinstall is complete, 'STORED' will briefly appear on the TV screen.
The time and date information have been set.

5 To end, press the [MENU] button.

Information on how to search for a TV channel manually can be found in the section 'Manual TV channel search'.

Sorting and clearing TV channels manually

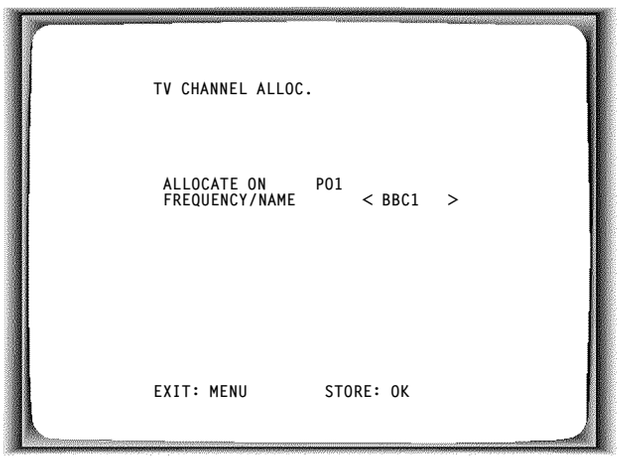
You can allocate a programmed TV channel to a random programme number (e.g.: 'P01') or you can delete a TV programme recorded by mistake.

ⓘ When you start this function, existing programmed recordings may be deleted.

1 Press the [MENU] button on the remote control. The main menu will appear.

2 Select the line 'TV CHANNEL ALLOC.' with the menu buttons [↓P −] or [↑P +].

3 Confirm with the [◿+→] button.
'ALLOCATE ON P01' will appear in the display.



4 Use the buttons [←◿−] or [◿+→] to select the stored TV channel to which you wish to allocate the programme number 'P01'.

5 Confirm this allocation with [OK]. The following message will briefly appear on the TV screen: 'STORED'.

6 After that, the allocation for the next-highest programme number will appear on the screen, e.g.: 'ALLOCATE ON P02'.

7 Use the buttons [←◿−] or [◿+→] to select the stored TV channel which you wish to allocate the programme number to, ' e.g.: P02'.

ⓘ If you want to delete a TV programme recorded by mistake, press the button [CLEAR (CL)].

8 Confirm this allocation with [OK]. The following message will briefly appear on the TV screen: 'STORED'.

ⓘ If you confirm the last possible allocation using the [OK] button, you will automatically be taken back to the main menu. Continue at step 11 .

9 Repeat steps 6 to 8 until you have given a programme number to all TV channels you wish to allocate.

10 To stop the allocation, press the [MENU] button.

11 To exit the main menu, press the [MENU] button.

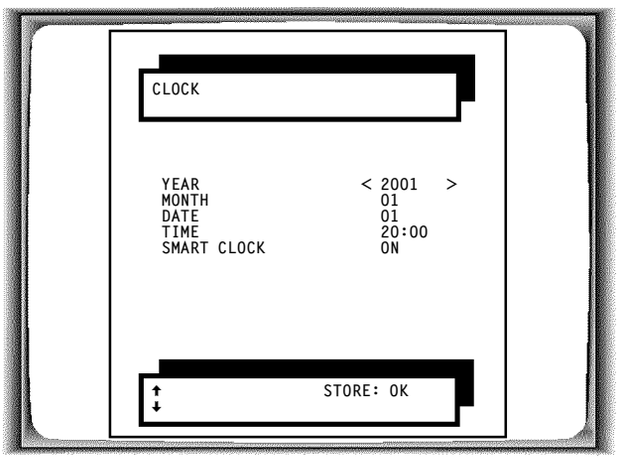
Setting the time and date

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

The next section 'Automatic setting of time/date (SMART CLOCK)' will show you how to turn 'SMART CLOCK' on and off.

1 Press the MENU button on the remote control. The main menu will appear.

2 Select the line 'CLOCK' using the P − or P + buttons and confirm this selection with the button ◿+→.



3 Check the year displayed in the line 'YEAR'. If required, please change the year with the number buttons 0..9 on the remote control.

4 Select the next line with P + or P −.

5 Check 'MONTH', 'DATE' and 'TIME' in the same way.

6 When all information is correct, confirm with OK. 'STORED' will briefly appear on the display.

7 To end, press the MENU button.

Automatic time and date setting (SMART CLOCK)

If a TV channel which transmits TELETEXT/PDC information is stored under programme number 'P01', the time and date are automatically set by the TELETEXT/PDC information.

The time will automatically be adjusted to winter time and summer time.

1 Press the MENU button on the remote control. The main menu appears.

2 Select the line 'CLOCK' with the button P − or P + and confirm with the ◿+→ button.

3 Select the line 'SMART CLOCK' with the button P − or P +.

4 Select 'ON' (SMART CLOCK switched on) or 'OFF' (SMART CLOCK turned off) 'using the buttons ←◿− or ◿+→.

5 Use the OK button to store this information. 'STORED' will briefly appear on the display.

6 To end, press the MENU button.

3. TV SET FUNCTIONS

Selecting a TV channel

Select the required TV channel (= the programme number) with the [↑P +], [↓P −] buttons or with the digit buttons [0..9] on the remote control.

> The connected decoder can only be used for one TV programme. If you would like to switch to a different TV channel which also requires the decoder during recording, the following message will appear on the screen: 'DECODER IN USE'.

Channel number of the scart socket

1. Select the channel number 'E1' using the button [0] on the remote control.

Channel number of the sockets A/V on the front

1. Select channel number 'E1' using the button [0] on the remote control and then select channel number 'AV' using the button [↓P −].

2. Use the number buttons [0..9] on the remote control to select the channels on the TV-Video Combi.

Volume control

You can adjust the volume using the [◄◿−], [◿+►] buttons on the remote control.

> If you would like to change the volume on the machine, press the button [P/◿] on the TV-Video Combi and change the volume using the buttons [+] or [−].

> If you want to mute the sound temporarily (e.g.: during a telephone call), press the [MUTE 🔇] button on the remote control. When you press the [MUTE 🔇] button again, the sound will return at its original volume level.

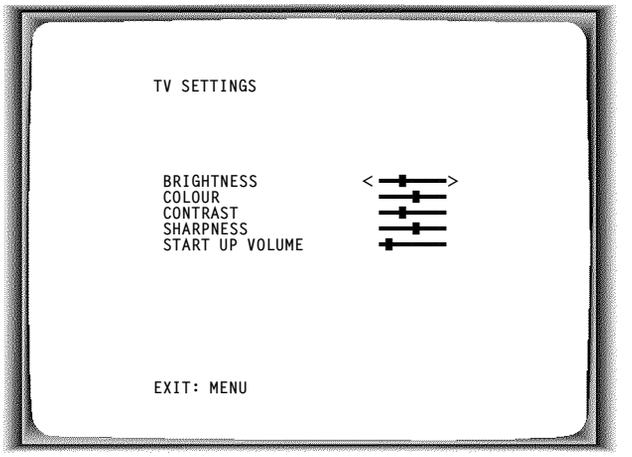
> While the sound is turned off, '🔇' will appear on the screen.

Picture settings

The picture can be adjusted according to your personal preferences.
These settings are automatically stored after exiting the main menu.

1. Press the [MENU] button. The main menu appears.

2. Confirm the line 'TV SETTINGS' using the button [◿+►].



3. Select the desired line with the [↓P −] or [↑P +] button and modify the settings using the [◄◿−] or [◿+►] button.

> If you TV-Video Combi also has the function: START UP VOLUME(Switch-on volume) , please read more detailed information in the respective section.

4. To end, press the [MENU] button.

(Switch-on volume)

The function 'START UP VOLUME' (switch-on volume) regulates the volume when turning on the TV-Video Combi to this preset value.

1 In the line 'START UP VOLUME' change the volume using the buttons [◄◿−] or [◿+►].

How do I read TELETEXT?

Many TV channels transmit TELETEXT information along with their TV channels. With this TV-Video Combi you can retrieve this information and display it on the screen using the built-in TELETEXT decoder.

1 Press the [TELETEXT] button to switch the TELETEXT decoder on. Your TV-Video Combi will now show TELETEXT for the TV channel you have selected.

2 If you want to select another page, type in the number of the page with the number buttons [0..9] on the remote control.

i With the colour buttons on your remote control you can directly select the page numbers shown at the bottom of the TV screen.

i The button [CLEAR (CL)] takes you back to the start page.

3 Press the [TELETEXT] button to switch the TELETEXT decoder off.

Special TELETEXT functions

In TELETEXT mode you can use the special TELETEXT functions. These are shown along the bottom of the TV screen.

1 During TELETEXT operation, press the [MENU] button. The following symbols are shown along the bottom edge of the TV screen:

: enlarge font
: switch TELETEXT decoder off temporarily
: select TELETEXT sub-page
: recall hidden information
: stop page changes
: show TELETEXT in transparent mode

2 Select the respective function using [◄◿−] or [◿+►].

3 Confirm with the [OK] button.

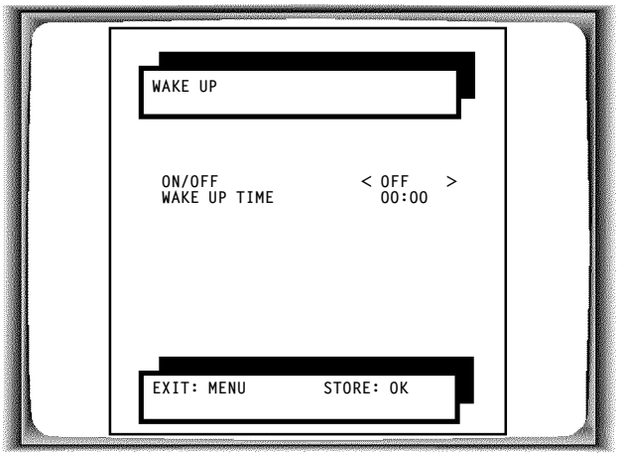
i To call up a TELETEXT sub-page enter the number of the sub-page after confirming the entry with the button [OK] using the buttons [0..9].
e.g.: for sub-page 5 enter '0005'.

Wake up function (WAKE-UP)

You can programme your TV-Video Combi to switch on at a predetermined time and wake you up.
The TV-Video Combi will switch on at the predetermined time playing the channel last selected and switches itself off automatically after one hour.

1 Press the MENU button on the remote control.
The main menu will appear.

2 Select the line 'WAKE UP' with the menu buttons P − or P + and confirm with the ◿+→ button. This picture will appear on the screen:



3 Use the buttons P − or P + to select the line 'ON/OFF'.

4 Use the button ◿+→ in the line to select 'ON' (wake up timer activated).

i If you select 'OFF' the timer will be switched off.

5 Use the buttons P − or P + to select the line: 'WAKE UP TIME' for the wake up time of the TV set.

6 Enter the desired time using the ←◿− or ◿+→ buttons or with the number buttons 0..9.

7 Store these settings using the OK button.

8 To end, press the MENU button.

9 Use the buttons P +, P − or the numeric buttons 0..9 of the remote control to select the programme which you want to be woken up to.

10 Switch off the TV-Video Combi with the button STANDBY ⏻.

i If you do not press a button, the alarm (TV-Video Combi) is switched off automatically after one hour.

i If you press the button STANDBY ⏻ the current alarm is (TV-Video Combi) switched off.

i If you want to continue to use the TV-Video Combi, press another button besides the button STANDBY ⏻.

Switch-off function (SLEEP TIMER)

You can programme your set to switch-off automatically after a predetermined period.

1 Press the SLEEP button on the remote control.
The screen will show the time remaining until switch-off, e.g.: '+0:15'

2 Press the button SLEEP repeatedly to extend the time until switch-off in 15 minute increments.

i The maximum time period to be set until switch-off is 4 hours.

The machine now counts backwards to the switch-off time.

i If you would like to turn this function off, push the SLEEP button on the remote control and then press CLEAR (CL) when the time remaining until switch-off appears.
'--:--' will appear on the screen.

i To check the time until switch-off, press the SLEEP button on the remote control.

i If a recording is in process, only the screen will be switched off by the switch-off function.

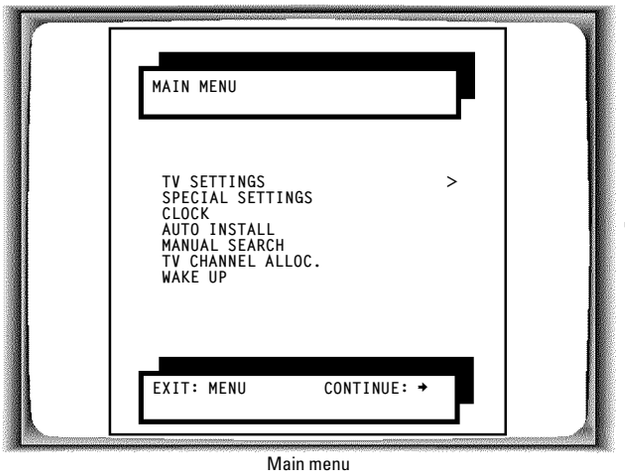
4. IMPORTANT NOTES FOR OPERATION

General information

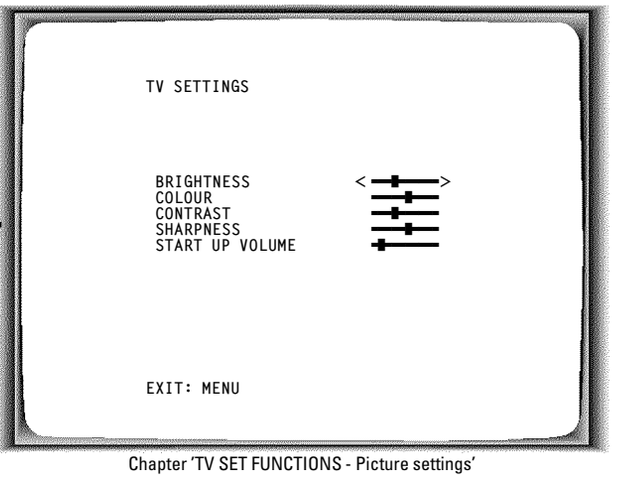
- ☐ We suggest that, from now on, you switch off your TV-Video Combi with the ⏻ button on the front of the set or with the STANDBY ⏻ button on the remote control. When the set is in the standby mode, a small red lamp (STANDBY ◉) at the front of the set will be alight.
- ☐ You can switch the machine on with the P +, P − or 0..9 buttons or by inserting a cassette.
- ⚠ **Attention:** If you use the power switch ⏻ on the side panel, you switch off the set completely from the mains power supply. No programmed recordings are possible in this state. The red standby lamp (STANDBY ◉) at the front of the set will not be alight. After some time, the date and clock settings will be lost.
  We therefore advise you to keep your TV-Video Combi connected to the mains and keep the mains switch ⏻ on at all times to ensure that programmed recordings can be made and that the television works normally. The power consumption will be low.
- ☐ **Attention:** If you switch off the appliance using the power switch ⏻, make sure that you have removed the tape by pressing the ■/⏏ button.
- ☐ If the TV-Video Combi does not receive a signal for more than 15 minutes, it switches off automatically to conserve energy.
- ☐ If the TV-Video Combi is not plugged into the mains, the TV channel and timer information is stored for approx. one year, and the clock information is stored for approx. 30 minutes.
- ☐ If a TV channel which transmits Teletext/PDC is stored under programme number 'P01', time and date will automatically be taken from the Teletext/PDC information after an interruption of the power supply to the set.

Summary of user guide

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



Main menu



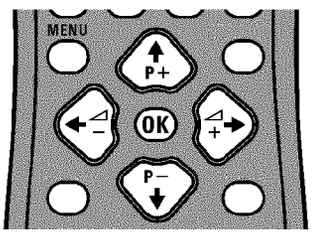
Chapter 'TV SET FUNCTIONS - Picture settings'

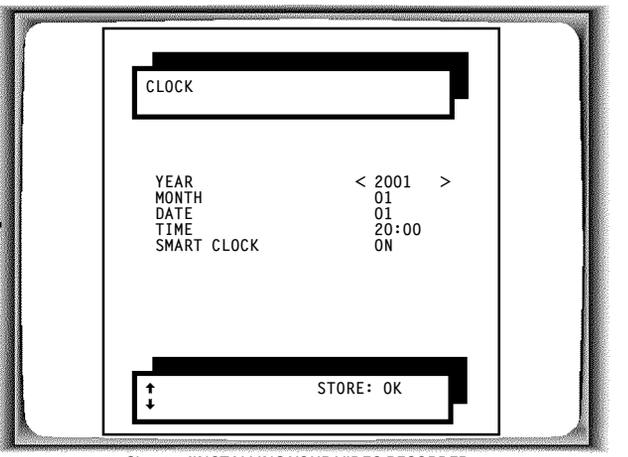
User guide (OSD)

The OSD (On-screen display) shows the various functions in the form of a menu on the television screen. Thus, you can comfortably check your settings. 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.

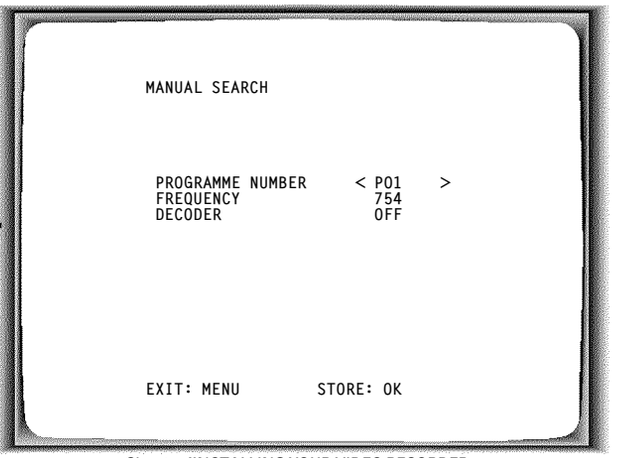
- ☐ **To call up the main menu:** With the MENU button.
- ☐ **To select a line:** With the P − or P + button.
- ☐ **To enter or change your selection:** With the 0..9, ◄◿− or ◿+► button.
- ☐ **To cancel:** With the STANDBY ⏻ button.
- ☐ **Store/confirm:** With the OK button.
- ☐ **To close the main menu:** With the MENU button.

If the symbol 'X' appears on the right end of the menu line instead of '>', the function of this line is not possible.





Chapter 'INSTALLING YOUR VIDEO RECORDER - Setting time/date'



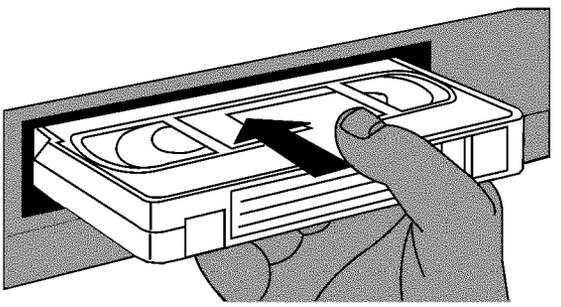
Chapter 'INSTALLING YOUR VIDEO RECORDER - Manual TV channel search'

The summary of the OSD menus are examples and are intended to help you select the various functions. Sometimes, they may slightly differ from the OSD menus on your TV-Video Combi.

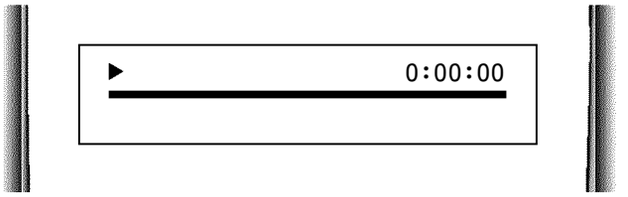
5. PLAYBACK FUNCTIONS

Playing a pre-recorded cassette

1 Put a cassette into the cassette slot (see illustration). The cassette will be pulled in automatically.



2 Press the button PLAY► to play the cassette. The screen displays for example:



3 To stop, press the STOP■ button.

4 To eject the cassette, press ■/▲ on the front of the TV-Video Combi while it is in Stop mode.
You may also use the STOP■ button on the remote control for more than 3 seconds.

- Before transportation, make sure that there is no cassette in the TV-Video Combi.
- With recordings which were recorded at the speed LP (Long Play), during some special functions (e.g.: still picture, picture search,…) the colour will automatically be switched off.
- Some hired cassettes may have poor picture or sound quality. This is not a fault in your machine. Please read 'Eliminating picture interference (Tracking)'.
- Some functions will automatically switch off after a while (e.g.: pause, still picture, picture search). This helps to protect the cassette and avoids wasting power.
- During playback, the machine will automatically switch between the speeds 'LP/SP'. Please read the section 'Selecting the recording speed (SP/LP)' in the chapter 'MANUAL RECORDING'.

Playing NTSC cassettes

With this TV-Video Combi you can playback cassettes that have been recorded in NTSC standard on other video recorders (e.g. American cassettes).

- During NTSC playback, 'NTSC' will briefly appear on the screen.
- Some special functions (e.g.: still picture) are not possible during NTSC playback.

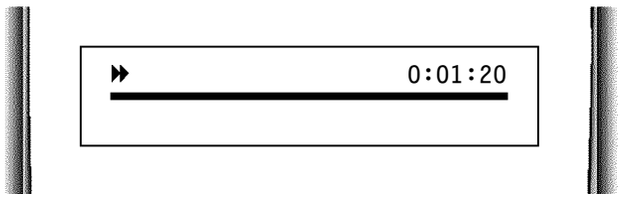
Tape position indication

By pressing OK you can show the present tape position on the TV screen. You can read the elapsed playing time in hours, minutes and seconds.

- If you want to set the counter to '0:00:00', press the CLEAR (CL) button.
- When you put a new cassette into the machine, the counter will automatically reset to '0:00:00'.
- If you rewind a cassette from the position '0:00:00', the counter will show: '-0:01:20' (rewound 1 minute 20 seconds from the '0:00:00' position).
- If there is an empty space on the tape, 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. The screen displays for example:



2 To stop at the desired position, press the PLAY► button.

- The picture quality is lessened during picture search. The sound is deactivated.

Still picture

1 Press the STILL ▶◀ button. A still picture will appear on the screen.

2 Each time you press STILL ▶◀ again, the picture will move on one step.

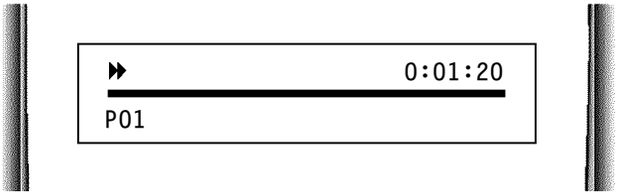
Interference stripes may appear on the screen during still picture.

3 To exit the still picture, press the PLAY ▶ button.

Searching for tape position without the picture (winding)

1 Stop the tape with the STOP ■ button.

2 Press the ◁◀ (reverse) or ▶▷ (forward) button. The following will appear on the screen:



3 To stop at the desired position, press the STOP ■ button.

'Instant View' function

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

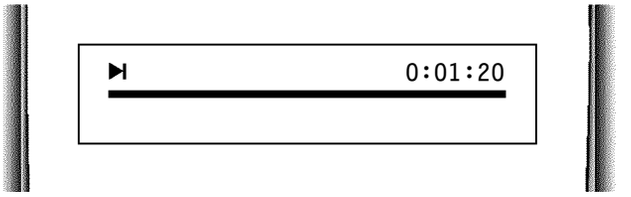
1 If you hold the ◁◀ (rewind) or ▶▷ (forward) button during wind or rewind, you will switch to picture search.

2 When you release this button, the TV-Video Combi automatically switches back to wind and rewind.

Automatic search for a tape position (index search)

At the start of each recording, an index code is written on the tape.

1 In order to search for the previous or next index code, press the INDEX ▶| button and then the ◁◀ button for the previous code or the ▶▷ button for the next code. The following may appear on the screen for the next code:



2 When the TV-Video Combi finds the marker, it will automatically switch to playback mode.

Eliminating picture interference (tracking)

If the picture quality is poor during playback, you can manually adjust the tracking.

1 Press and hold the button ↑P + or ↓P − during playback until the playback quality reaches its best. 'T+' will appear on the screen when the button ↑P + is pressed. 'T -' will appear when you press the button ↓P −.

This setting will remain until the cassette is removed.

6. MANUAL RECORDING

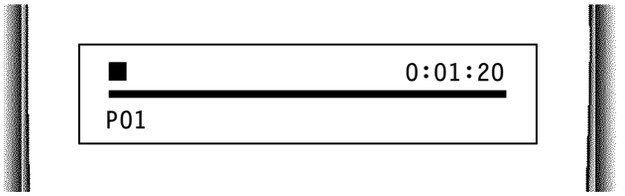
Use the 'Manual recording' function to spontaneously start recording (e.g. to record a TV show already in progress).

- ☐ Please refer to section **'Recording without automatic switch-off'**, if you want to manually start and stop your own recording.
- ☐ Please refer to section **'Recording with automatic switch-off'**, if you would like to start your own recording but want it to end automatically (e.g. not to record all the way to the end of the cassette).

Recording without automatic switch-off

1 Place a cassette in the machine.

2 Use the button [P +] or [P −] to select the programme number which you would like to record from, e.g. 'P01'. This picture will appear on the screen:

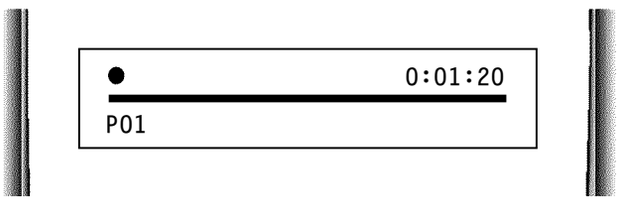


i If a TV channel sends a channel name, this is displayed on the screen.

i Programme number 'E1' is provided for recording from external sources (via the [EXT] scart socket). Programme number 'AV' is for recording from the audio and video front sockets.

3 To record the TV programme, press the button [RECORD ●] on the remote control or the button [●] on the TV-Video Combi.

i During recording, the recording lamp 'RECORD ◉' on the front of the machine lights up. The following will appear on the screen:



i Use the button [OK] to display the current tape position on the screen.

4 Stop recording with the [STOP ■] button.

i If you would like to turn off the screen during the recording, press the button [STANDBY ⏻].

i To switch the screen back on again, press the [P +] button.

i With the screen switched off you can only stop a recording in process by pressing the button [STANDBY ⏻] for more than 3 seconds.

i During a recording you can also switch to other TV channels.

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

1 Place a cassette in the machine.

2 Use [P +] or [P −] to select the programme number of the TV channel you wish to record.

3 Press the [RECORD ●] button on the remote control.

4 Press the [RECORD ●] button on the remote control several times to add 30 minutes to the recording time.

i To cancel this entry, press the [CLEAR (CL)] button.

i The recording time can be extended only to up to 4 hours.

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 flickering between them.

1. While the cassette is playing, search for the next recording's position on the tape.
2. Press the STOP■ button on the remote control. '**II**' appears on the TV screen.
3. Now start recording as usual by pressing the RECORD● button on the remote control.
4. Stop recording with the STOP■ button.

Selecting the recording speed (SP/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. Press the MENU button on the remote control. The main menu will appear.
2. Select the line 'SPECIAL SETTINGS' with the buttons P − or P + and confirm with the ◿+→ button.
3. Choose the desired recording speed in the line 'RECORD SPEED' using the buttons ←◿− or ◿+→.

   'LP': **L**ong**P**lay = half recording speed (double recording period).
   'SP': **S**tandard**P**lay = normal recording speed.
4. Confirm with the OK button.
5. To end, press the MENU button.

   The picture quality with LP recordings will not be as good as it is with SP recordings.

   For playback, the correct speed will automatically be selected.

7. PROGRAMMED RECORDING (TIMER)

Use programmed recording to automatically start and stop a recording at a later date.

The TV-Video Combi requires the following information for each programmed recording:

* the date you want to make the recording
* the programme number for the TV channel you want to record
* the start and stop time of the recording

The TV-Video Combi stores all above mentioned information in a so-called TIMER-Block. You can programme up to 6 TIMER blocks a whole month in advance.

'VPS' (Video Programming System) / 'PDC' (Programme Delivery Control)

With 'VPS/PDC', the TV station controls the start time and the length of the programmed recording. If a TV programme begins earlier or ends later than planned, the TV-Video Combi switches on and off at the **right time**.
You must enter the start time **exactly to the minute**during programming.
If you would like to programme a time that differs from the VPS/PDC time, you must switch off 'VPS/PDC'.

Programming a recording (with 'VIDEO Plus+')

When entering the PlusCode programme number, the TV-Video Combi receives all necessary information to programme a recording.

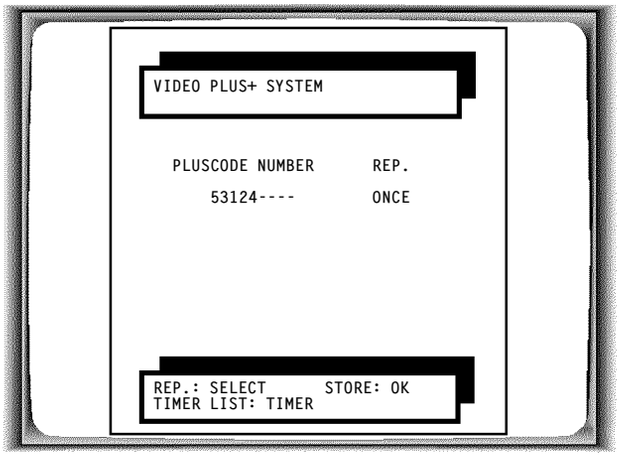
VIDEO Plus+®

1 Press the TIMER button on the remote control.

2 Enter the entire PlusCode number. This number which can consist of up to nine digits, is listed in your TV guide next to the start time of the respective TV programme.
e.g.: 5-234-89 or 5 234 89
Enter 523489 for the PlusCode programming number.

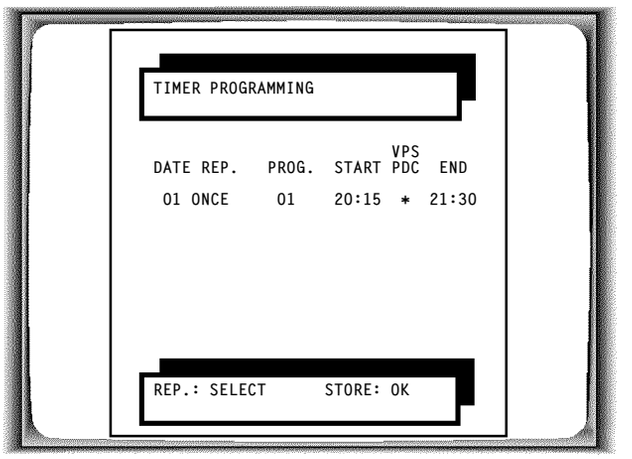
If you would like to use 'VPS/PDC' to programme the recording and an additional start time is indicated, e.g.: (VPS/PDC21.09), you must enter the ShowView number for the 'VPS/PDC' time.
e.g.: (VPS/PDC21.09) 405-564-898
Enter 405564898 for programming using 'VPS/PDC'.

If you make a mistake, you can clear your entry using the CLEAR (CL) button.



3 Use SELECT to select repeated daily or weekly recording.
'ONCE': One-time recording.
'MO - FR': Daily recordings from Monday through Friday.
'WEEK.': Recordings on the same day every week.

4 Confirm with the OK button. Upon confirmation the respective information will appear on the TV screen.



If 'SELECT PROG. NR.' appears on the screen, the TV channel has not yet been allocated to the PlusCode number. Select the desired programme number using the number buttons 0..9 on the remote control and confirm with the OK button.

If 'PLUSCODE NUMBER NOT VALID' appears on the screen, the PlusCode number is incorrect. Correct your entry or cancel using the MENU button.

If 'MO-FR PROGRAMMING NOT POSSIBLE FOR WEEKEND' appears on the TV screen, you have programmed a daily recording for the wrong day. Daily programming can only be used for recordings to be made from Monday to Friday.

5 If you want to switch 'VPS/PDC' on or off, select the entry field 'START' using the buttons ◄◿– or –◿+►. Switch 'VPS/PDC' on or off using the button SELECT. If '*' appears on the screen, 'VPS/PDC' has been switched on.

Please check the start time. The section 'VPS (Video Programming System) / PDC (Programme Delivery Control)' contains further information regarding 'VPS/PDC'.

6 If all information is correct, press the OK button.

The programming information has been stored in a TIMER block.

7 Insert a cassette that is not erase protected.

TIMER recording only functions if the machine is not being used for other video recorder functions like for example for playback.

If the TV-Video Combi is used a few minutes before beginning a programmed recording session for playback (for example), 'PRESS OK TO START RECORDING' will appear on the screen. Change cassettes or press the button STOP■ if you want to use this cassette for recording. Confirm this message with the button OK, to continue the programmed recording session.

Recording light lights up during recording, Timer recording; blinks when timer recording is unable to start

If the end of the cassette is reached during a recording, the TV-Video Combi will automatically eject the cassette.

If you forgot to insert a cassette, 'NO CASSETTE' will appear.

If you have inserted a cassette with erase protection when you want to start a recording, the cassette will be ejected automatically.

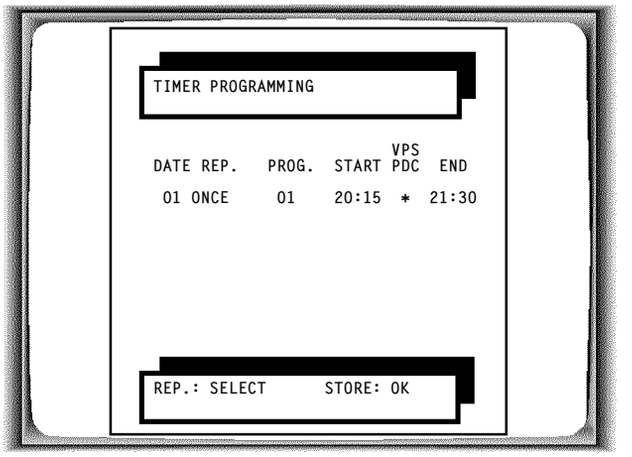
If 'ALL TIMERS OCCUPIED' appears on the TV screen when you press the TIMER button, you have used up all the available TIMER blocks. If you want to clear or check a programmed recording (TIMER block), select it with P+ or P–.

Programme number 'E1' is provided for recording from external sources (via the EXT scart socket).

Programming a recording (without 'VIDEO Plus+')

1 Press the TIMER button on the remote control **twice**. The free TIMER block will be highlighted.

2 Press the TIMER button. The current information will appear on the screen.



3 Use the buttons –◿+► or ◄◿– to select different entry fields: 'DATE' (Date), 'PROG.' (Programme number), 'START' (Start time), 'END' (End time). Enter or change your information with P+ or P–, or with the number buttons 0..9.

Use the SELECT button in the entry field 'DATE' to select repetitive daily or weekly programming.
'ONCE': One-time recording
'MO-FR': Daily recordings from Monday through Friday.
'WEEK.': Recordings on the same day every week.

Use the SELECT button in the entry field 'START' to switch 'VPS/PDC' on or off. If '*' appears on the screen, the function has been switched on.

4 If all information is correct, press the OK button.

The information has been stored in a TIMER block.

5 Insert a cassette that is not erase protected.

i TIMER recording only functions if the machine is not being used for other video recorder functions like for example for playback.

i If the TV-Video Combi is used a few minutes before beginning a programmed recording session for playback (for example), 'PRESS OK TO START RECORDING' will appear on the screen.
Change cassettes or press the button STOP ■ if you want to use this cassette for recording.
Confirm this message with the button OK, to continue the programmed recording session.

Recording light lights up during recording,
Timer recording; blinks when timer recording is unable to start

i If the end of the cassette is reached during a recording, the TV-Video Combi will automatically eject the cassette.

i If you forgot to insert a cassette, 'NO CASSETTE' will appear.

i If you have inserted a cassette with erase protection when you want to start a recording, the cassette will be ejected automatically.

i If 'ALL TIMERS OCCUPIED' 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 P + or P −.

i If the message 'DATA ERROR' appears on the screen momentarily, the data for the recording was not transferred. Please check date, start time and end time of the programmed recording

i Programme number 'E1' is provided for recording from external sources (via the EXT scart socket).

How to check or change a programmed recording (TIMER)

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

2 Use the P − or P + buttons to select the programmed recording (TIMER) you wish to check or change.

3 Press the TIMER button.

4 Select the entry field with the ◿− or ◿+ button.

5 Change any displayed information with the P − or P + button or with the 0..9 buttons.

6 Confirm with the OK button.

7 Make sure that the cassette you have inserted is not erase protected.

i TIMER recording only functions if the machine is not being used for other video recorder functions like for example for playback.

i If the TV-Video Combi is used a few minutes before beginning a programmed recording session for playback (for example), 'PRESS OK TO START RECORDING' will appear on the screen.
Change cassettes or press the button STOP ■ if you want to use this cassette for recording.
Confirm this message with the button OK, to continue the programmed recording session.

Clearing a programmed recording (TIMER)

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

2 Use the button P − or P + to select the programmed recording (TIMER) which you wish to clear.

3 Press the CLEAR (CL) button.
The selected programmed recording (TIMER) has now been deleted.

4 To end, press the MENU button.

8. ADDITIONAL FUNCTIONS

Parental control (Child lock)

This function protects your TV-Video Combi from unwanted use. All button functions on the front of the machine are blocked.

> Programmed recordings will still be recorded (in spite of the parental control) and cannot be interrupted.

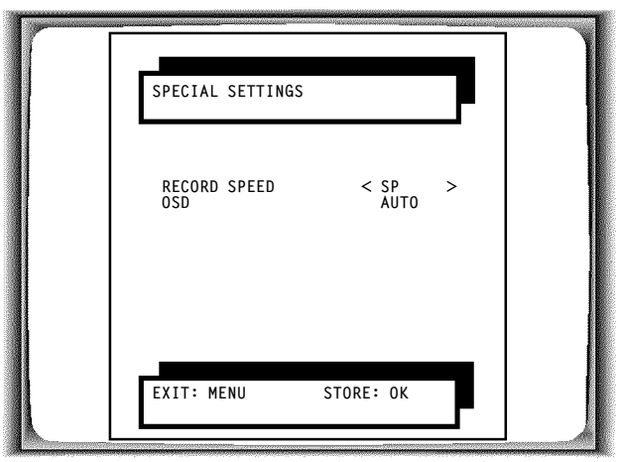
1. Please make sure the TELETEXT decoder is switched off using the button [TELETEXT].
2. Press the [🔑] button on the remote control **for approx. 5 seconds**.
   The standby lamp (STANDBY◉) on the front of the machine blinks for approx. 3 seconds to confirm this action.
   Keep the remote control in a safe place.
3. If you want to switch the parental control function off, press the [🔑] button on the remote control **for approx. 5 seconds**.
   The standby lamp (STANDBY◉) on the front of the machine blinks for approx. 3 seconds to confirm this action.

> If a button at the front of the machine is pressed while parental control is active, 'CHILD LOCK ACTIVE' will appear on the screen for a few seconds. The standby lamp (STANDBY◉) blinks as long as a button on the front is pressed.

Switching OSD information on/off

You can tailor the on-screen display (OSD) of the current mode (e.g.: playback, record…). to your personal needs.

1. Press the [MENU] button on the remote control. The main menu will appear.
2. Select the line 'SPECIAL SETTINGS' with the buttons [↓P −] or [↑P +] and confirm with the [◿+→] button.



3. In the line 'OSD', select one of the options shown using the button [◿+→].
   'AUTO':
   The OSD information appears with every selected mode for a few seconds and disappears again.
   'MAX':
   Additionally, date and time are displayed with every selected mode.
   'OFF':
   The OSD information is switched off. However, you can use the button [OK] to display the OSD information on the screen.
4. Confirm with the [OK] button.
5. To end, press the [MENU] button.

Continuous playback of a cassette

You can play a cassette continuously. As soon as the end of the cassette or end of the recording is reached (30 seconds of blank tape), it is rewound to the beginning and the playback starts over again.

> Please make sure the TELETEXT decoder is switched off using the button [TELETEXT].

1. Place a cassette in the machine.
2. Press the [PLAY►] button to start continuous playback.
3. Hold the button [SELECT] down on the remote control until 'R+' appears on the screen (continuous playback function switched on).

> If you press a button while the continuous playback mode is activated, 'R+' will appear on the screen simultaneously with the counter.

> If you want to switch the continuous playback function off, press and hold the [SELECT] button on the remote control until 'R-' appears on the TV screen (continuous playback switched off).

9. BEFORE YOU CALL AN ENGINEER

If you encounter problems with your TV-Video Combi, these could be caused by one of the following. You can also call the **customer service centre** in your country.
The telephone number is listed in the enclosed warranty information packet or on the last page of the manual cover. Have the model number (MODEL NO) and the production number (PROD.NO) of your video recorder ready. You can find both numbers printed on the type plate fixed at the rear of the set.

Your TV-Video Combi does not respond to any button being pressed:
- TV-Video Combi has been switched off using the power switch [⏻] : switch machine on on left side using the power switch.
- There is no power supply: Check the power supply.
- A programmed recording is currently being made: If desired, cancel the programmed recording pressing the [STANDBY ⏻] button (for longer than 3 seconds).
- Parental control is on: Switch the parental control off.

Remote control does not work

The red standby lamp (STANDBY ◉) does not blink, if one of the buttons on the remote control is pressed:
- Remote control not pointed toward the TV-Video Combi: Point the remote control at the TV-Video Combi.
- There is a technical problem: Take out the batteries, wait for 10 seconds and place them back.
- Batteries are weak: Change the batteries.

Technical problem:
- Switch machine off using power switch [⏻] , wait 30 seconds and switch back on.
- You can reset the settings on your set (careful: all information will be deleted):
  1. Switch machine off using power switch [⏻] .
  2. Press the [⏻] button on the machine and **hold button**. Switch back on using power switch [⏻] .
  3. If the standby lamp (STANDBY ◉) on the set begins to blink, release the [⏻] button.
  The machine settings are reset and the data memory is deleted.

No picture (black/blue picture):
- **The red standby lamp (**STANDBY ◉ **) on the front of the set is not lit up:**
  TV-Video Combi switched off: Switch on the set using the mains switch on the left side of the unit.
  There is no power supply: Check the power supply.
- **The red standby lamp (**STANDBY ◉ **) on the front of the set is lit:**
  TV-Video Combi switched off automatically: Switch it back on using the [↑P +] button.
  Switched to the programme number of an external source, e.g.: 'E1' for the scart socket [EXT] , but the attached device is turned off: Switch on external device or choose a different programme number.
  A TV channel (programme number) has been chosen but there is no reception on this channel: Select the correct TV channel.
  No reception: Have the aerial checked.

Some of the menu lines can be selected, but are without functions:
- Recording is in session; if required, cancel recording session.

Cassette is jammed in the TV-VIDEO Combi:
- Don't use force. Switch off with the [⏻] power switch for 30 seconds, then switch it on again.

No playback on the TV-Video Combi:
- There is no recording on the cassette: Change the cassette.

Poor quality playback on the TV-Video Combi:
- The cassette is badly worn or of poor quality: Use a new cassette.
- Tracking is not properly adjusted: Turn to chapter 'PLAYBACK FUNCTIONS' and read the section 'Eliminating picture interference'.

Poor playback of recordings made via the scart socket [EXT] :
- Recording copy-guarded data via the scart socket [EXT] can lead to picture/sound distortions. This is not a fault in your machine.

The TV-Video Combi will not record:
- The TV channel is not stored or not selected properly: Check TV channels stored.
- You have loaded a cassette which is erase protected: Undo the erase protection on the cassette.

Programmed recording does not work:
- You have not set the TIMER properly: Check the TIMER blocks.
- Clock/date were set incorrectly: Check clock/date.
- You have put in a cassette that is erase protected: Undo the erase protection on the cassette.
- 'VPS/PDC' switched on but 'VPS/PDCtime' wrong: 'Enter 'VPS/PDCtime exactly to the minute. Have the aerial checked.
- Machine is being used for other video recorder functions at time of beginning of recording (e.g.: for playback). Switch off video recorder functions before beginning recording session (press [STOP ■] button). Check cassette.
- After a 'programmed recording with Video Plus+' the programme number of the TIMER block does not correspond with the desired programme number:
  1. Confirm the PlusCode programming number using the [OK] button.
  2. Press the [TIMER ⏲] button.
  3. Change the programme number displayed in the 'PROG.' entry field.
  4. Confirm with the [TIMER ⏲] button.

'Smart Clock' setting does not work:
- You have stored a TV channel on programme number 'P01' that does not transmit TELETEXT: On 'P01' store a TV channel that transmits TELETEXT.
- Poor TELETEXT reception: Store a TV channel on 'P01' with good TELETEXT reception.
- You have not activated the Smart Clock function: Switch the function 'ON'.

10. GLOSSARY

Technical terms used

Current tape position

The part of the tape currently being played.

External source

A device connected via a socket (e.g.: scart socket) which transmits audio/video signals to the TV-Video Combi.

Index code

A code which is automatically recorded on the tape at the beginning of every recording. This code (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, computers 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,... The system used by your television depends on which country you are in.

OTR

One touch recording (recording using one button). This function enables you to select the switch-off time in intervals of 30 minutes.

TXT, TELETEXT

Also known as Fasttext, Videotext, FLOF,...

Standby

Standby is an operating mode which you can activate by pressing the STANDBY ⏻ button (remote control) or the ⏻ button (front of machine) of your TV-Video Combi.
In order to recognise this operating mode, the red standby lamp (STANDBY ◉) at the front of the set will be alight.
Preprogrammed recordings are possible.
In order to switch the TV-Video Combi back on, select a TV channel using the buttons 0..9, P + or P − on the remote control or the buttons + or − on the front of the machine.

OSD

The OSD (On Screen Display) feature displays information regarding counter, programme number, operating mode (record, play,…) on the screen. The OSD also provides increased ease of use via screen menus.

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