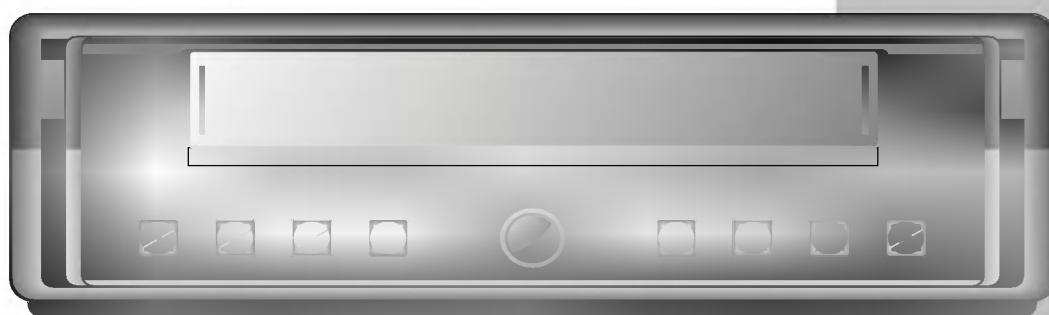


VHS- Video recorder

BN200PR
BN200PG
BN200PB

- HQ (High Quality) picture enhancement system
- Full function infra-red remote control handset
- Programmable 80 channel memory with Frequency synthesised tuner
- ACMS (Automatic Channel Memory System) - the channels will be preset and memorized automatically.
- 7 event/1 month programmable timer
- Recording and playback for 16:9 Wide-screen format
- Energy Saving function
- ICON O.S.D (On Screen Display) - Enables menu to display on the blue picture and actual picture.
- NTSC playback on PAL TV
- LP - Long Play - recording and playback
- Logic & Picture Search
- Child Lock
- Auto Head Cleaner
- Auto Power on and Play
- Real Time Counter
- Quick Start function
- Auto Tracking System





Welcome to LG

Thank you for buying this LG video cassette recorder Model BN200PR/BN200PG/BN200PB.

Before using your video recorder you need to be familiar with the names of some of the buttons on the remote control handset (see OPERATING THE VIDEO RECORDER, pages 4 to 6), and you need to set up the video recorder so that it can receive the TV stations in your area (see p 9 to 11).

Installation

POWER

This Video Recorder operates on a mains supply of 200-240V~, 50 Hz.

SERVICE

Never remove the cover of the video recorder. There are no user serviceable parts inside. If it does not operate properly, unplug it and contact your dealer.

PRECAUTIONS

For safe operation and satisfactory performance of your video recorder, keep the following in mind when selecting a place for its installation.

- Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- Install the video recorder in a horizontal position only.
- Avoid locations subject to strong vibration.
- Do not place the video recorder near strong magnetic fields.
- Do not move the video recorder from a cold to a hot location or vice versa.

MOISTURE CONDENSATION

Under special conditions like moving your video recorder from a cold to a warm room, moisture condensation can build up on the head drum, one of the most crucial parts of the video recorder. In order to prevent in such case any damage to your video recorder HEAD DRUM, connect the video recorder power cord to the AC line, press the "⏻" button on and allow at least 2 hours for the video recorder to dry out.

CONDENSATION IS LIKELY TO OCCUR WHEN:

The video recorder is moved from a cold room to a warm room or from outdoors to inside your home.

- A cold room is heated quickly.
- The humidity is very high.

 This product is manufactured to comply with the radio interference requirements of EEC DIRECTIVE 89/336/EEC, 93/68/EEC and 73/23/EEC.

Contents

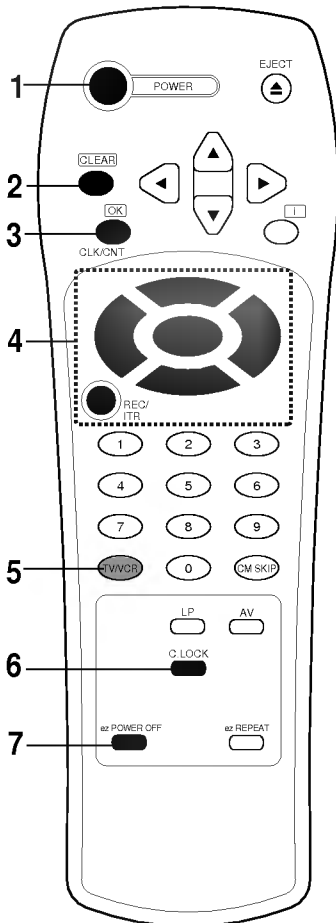


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Operating the video recorder

The Remote Control Handset

This video recorder is designed so that almost all of its functions can be controlled from the REMOTE CONTROL HANDSET. This must have a "line of sight" to the sensor on the front of the video recorder. It must be within an angle of 30 degrees either side of the centre. The maximum operating distance is about 7.5m (25 feet). Some functions can also be controlled with the controls on the FRONT PANEL of the video recorder.



1 POWER

To switch the video recorder on and off.

2 CLEAR

To reset the tape counter to zero (see p 25).

3 OK/CLK/CNT

- Confirms menu selection (see p 8).
- Calls the on screen display (see p 25).
- To switch the display on the TV screen between the current time, the tape counter (in hours and minutes) and the remaining tape volume (see p 25).

This function will only operate when a tape is loaded.

4 Basic operation buttons;

- P/STILL (see p 16, 19).
- REWIND/REVIEW (see p 17).
- PLAY (see p 16).
- FAST FORWARD/CUE (see p 17).
- STOP (see p 16).
- REC/ITR (see p 19 to 20).

5 TV/VCR

Set this button to;

- **VCR:** To monitor, view playback or view the video recorder's tuner.
- **TV:** To watch TV or view another programme while recording one programme (see p 20).

6 CHILD LOCK

To turn the CHILD LOCK function on/off (see p 27).

7 ez POWER OFF

(see p 29).

Operating the video recorder

8 EJECT BUTTON

To eject a tape (see p 15).

9 CURSORS (▲, ▼, ◀, ▶)

▲▼:

- During OSD menu, for moving the cursor, selection bar up or down.
- Switches one channel programme up or down.
- During playback, tracking control.
- During still playback, adjusting vertical tremble.
- To adjust manual fine tune for receiving normal audio and picture (see p 10).

◀▶:

- During OSD menu, for moving the cursor to the left or right.
- To clear a data (see p 23).

10ⁱ

To display the on screen display (OSD) menu (see p 8).

11 NUMBER BUTTONS:

To select programme channels. To programme numeric information into On screen displays.

12 CM SKIP

To fast forward picture search through 30 seconds of recording (see p 16).

13 TAPE SPEED SELECT (LP)

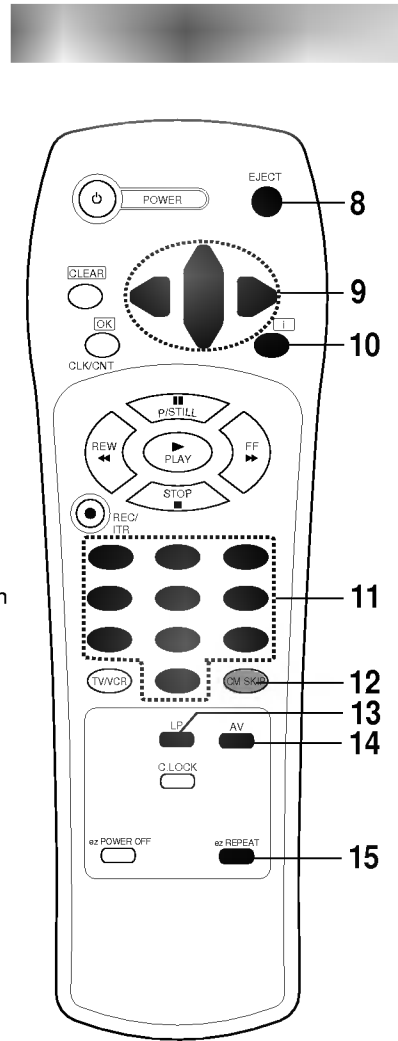
To select the recording speed of the tape (see p 19).

14 AV

To select the input source of a recording (see p 19).

15 ez REPEAT

(see p 29).



How to install batteries

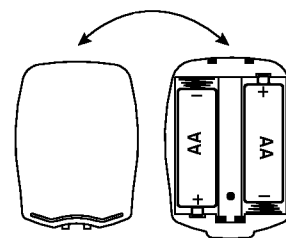
The wireless remote control is powered by two "AA" size batteries.

1 Remove the battery compartment lid.

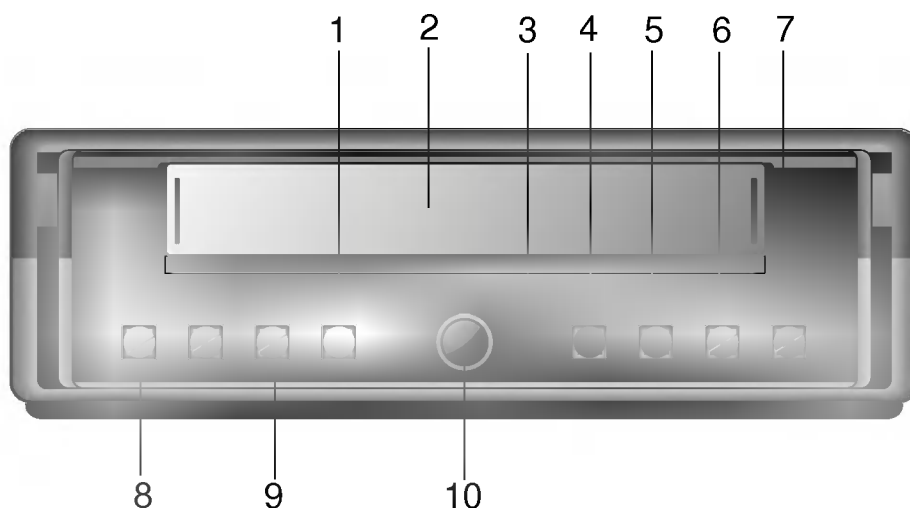
(Lift it up while pressing the tap forward.)



2 Load the new batteries with their polarities (⊕ and ⊖) aligned properly and replace the lid.

- Do not use an old and a new battery together, and never use an alkaline battery with a manganese battery.
- If you do not intend to use the remote control unit for a long period of time, remove the batteries and store them in a cool, dry place.



The front of the Video Recorder



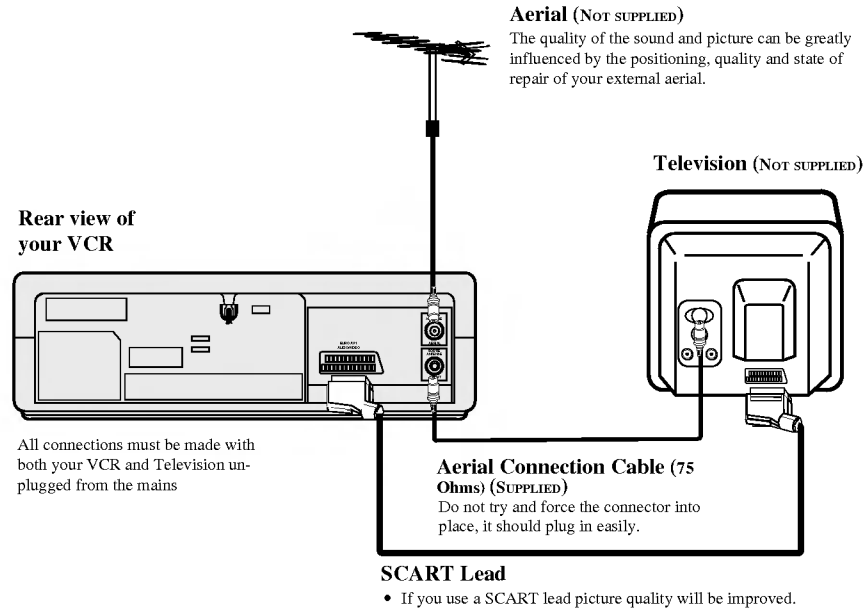
- | | | | |
|----------|--|-----------|---|
| 1 | 
To switch the video recorder on and off.
(see p. 15). | 6 | PLAY
To play the tape (see p. 16). |
| 2 | VIDEO CASSETTE COMPARTMENT
When a cassette is inserted loading is completed automatically. | 7 | FF |
| 3 | MULTI FUNCTION DISPLAY | 8 | PROG. (▼/▲)
Allows you to scan through memorized channels. |
| 4 | 
To stop the tape, or eject it from the video recorder
(see p. 15). | 9 | REC/ITR
Used to record and set the ITR (Instant Timer Recording)
time (see p. 19 to 20). |
| 5 | REWIND | 10 | REMOTE CONTROL SENSOR
To receive the signals from the remote control handset. |

Installing your video recorder

IMPORTANT!

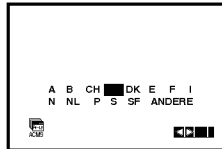
The guidance given on this page is the most common forms of connection. However please check with your manufacturers instruction books for specific information. Make sure all connections are made with both your VCR and additional appliance unplugged from the mains to avoid damaging your equipment. To enjoy playing back you must connect the VCR to the TV using a SCART lead.

Connecting to a TV



INITIAL PRESET

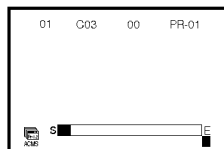
For the following steps we do assume that you have just connected your video recorder for the very first time. In this case the video recorder is on after mains connection. You should not touch any buttons yet. On the connected TV you will now see.



Note - If this menu does not appear, your video recorder was programmed already.

- 1 Select the desired country with cursor “◀” and “▶” buttons.
“A”: Austria, “B”: Belgium, “CH”: Switzerland,
“D”: Deutsch, “DK”: Denmark, “E”: Spain, “F”: France, “I”: Italy,
“N”: Norway, “NL”: Netherlands, “P”: Portugal, “S”: Sweden,
“SF”: Finland.

- 2 Press the “OK” button to start the automatic storing of the channels of the TV stations in your area.





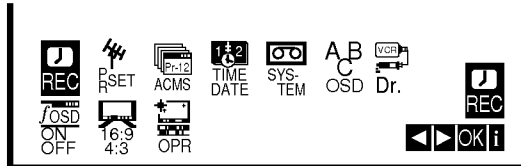
On Screen Display

A number of the features of this video recorder can be set and altered using the handset with On Screen Displays (menus) on the TV screen.

The Main menu

- 1 Switch on your TV set and video recorder by pressing the "POWER" button.
- 2 Press the "i" button to display the Main menu.
- 3 Press the cursor "◀" and "▶" buttons to select the desired menu and press the "OK" button.

Note - After using the menus press the "i" button to remove menus from the TV screen.



REC

Used to record a programme with the timer (see p 21 to 22).

PR SET

Used to view stored TV stations or to set TV station information manually (see p 10 to 11).

ACMS

Used for automatic setting of the TV stations (see p 9).

TIME DATE

To set the clock manually (see p 14).

SYSTEM (AUTO → PAL → MESECAM)

Select the colour system used for playback and recording (see p 18).

ABC OSD

Allows you to select the language of the On Screen Display. You can select between English, Deutsch, Français, Italiano, Español and Dutch.

Dr.

To check a problem with your VCR (see p 27).

OSD (On Screen Display)

Switches the on screen display OFF or ON (see p 25).

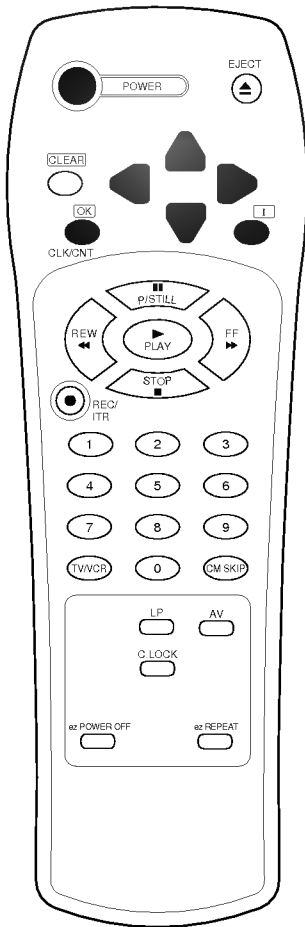
16:9/4:3

To select the aspect ratio of your TV (see p 27).

- **AUTO:** for playing back wide-screen programmes as wide, normal programmes as normal.
- **4:3** for recording and playback with a normal format.
- **16:9** for recording and playback with a 16:9 Wide-screen format recording.

OPR

To improve the playback picture (see p 17).



Storing TV stations

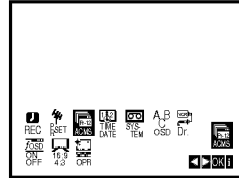


Up to 80 TV stations (80 channels) can be stored in the memory of this video recorder. These can be set automatically or manually.

Automatic tuning

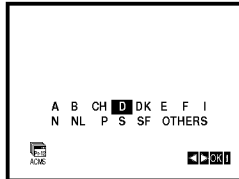
To carry out Automatic tuning:

- 1 Turn on the TV and the video recorder (with the "POWER" button).
- 2 Press the "i" button and select "ACMS" by using the cursor "◀" and "▶" buttons.



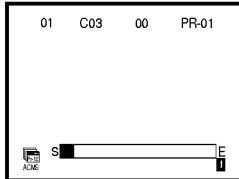
- 3 Press the "OK" button.

- 4 Select the desired country with cursor "◀" and "▶" buttons.

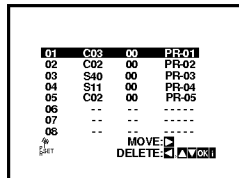


"A": Austria, "B": Belgium, "CH": Switzerland, "D": Deutsch, "DK": Denmark, "E": Spain, "F": France, "I": Italy, "N": Norway, "NL": Netherlands, "P": Portugal, "S": Sweden, "SF": Finland, Others.

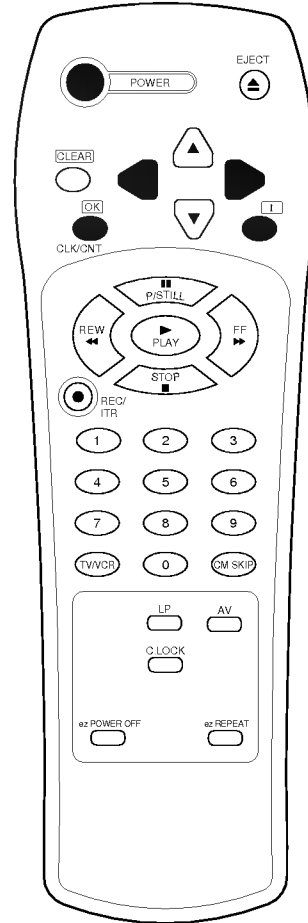
- 5 Press the "OK" button to start the automatic storing of the channels of the TV stations in your area.



- 6 After finishing the storing, the video recorder will sort the stations. Automatic channel tuning has been completed when the "TV station table" menu appears on the TV screen.



- 7 Press the "i" button to remove the menus from the TV screen.



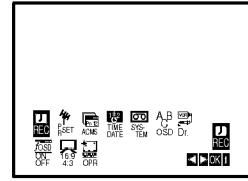


Storing TV stations

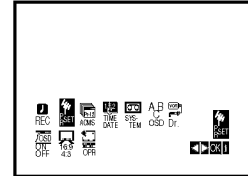
Manual tuning

TV station Channel numbers and Station names can be stored manually.

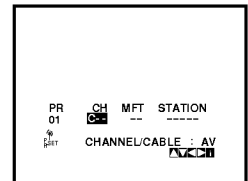
- 1 Press the "i" button on the video recorder handset. The menu will appear on the TV screen.



- 2 Use the cursor "◀" and "▶" buttons to select "PR SET".

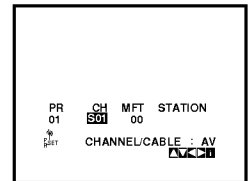


- 3 Press the "OK" button to enter the manual tuning mode.

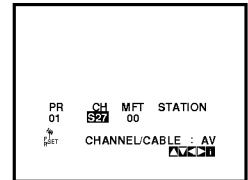


- 4 Press the "AV" button to select the type of TV channels.

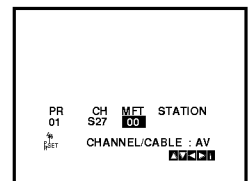
- "C" for standard channels C02-C71.
- "S" for special channels (Cable) S01-S41.



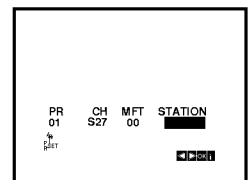
- 5 Enter the channel number that you wish to enter the station with number buttons or cursor "▲" or "▼" buttons.



- 6 Use "▶" button to select "MFT" and control the fine tuning of the station by pressing the cursor "▲" and "▼" buttons.



- 7 Use "▶" button to select "STATION".

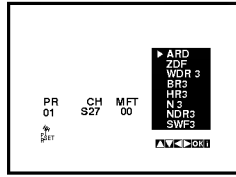


Storing TV stations

- 8** Press the "OK" and select the cursor "▲" and "▼" buttons to select the station name from list.

NOTE:

Press the use "▶" button to input the station name manually.

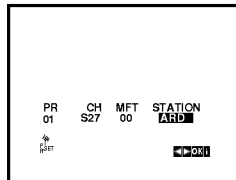


- 1) Enter the first letter of the station name by repeatedly pressing the cursor "▲" and "▼" buttons.
- 2) Now move the cursor with the "▶" to the next position and write in the next letter of the station name.

For corrections move back and forth with the "◀" and "▶" buttons.

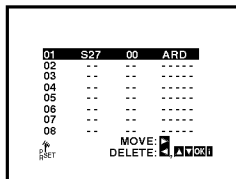
- 3) When you have the station name as required press the "OK" button and "i" button.

- 9** Press the "OK" button to select it.



- 10** Press the "i" button.

The "TV station table" menu will be displayed.

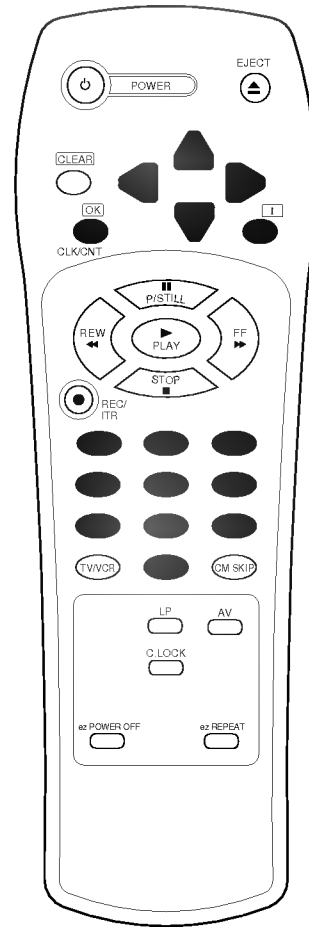


- 11** End the station storing by pressing the "i" button.

Selecting stored TV stations

Stored TV stations can be selected in either of two ways.

- 1** Use the "▲" and "▼" buttons to move from one station to another.
- 2** Enter the programme number with the number buttons, to select a station directly. You can enter the stations 1 to 9 with the one digit only. The channel will be selected at once.

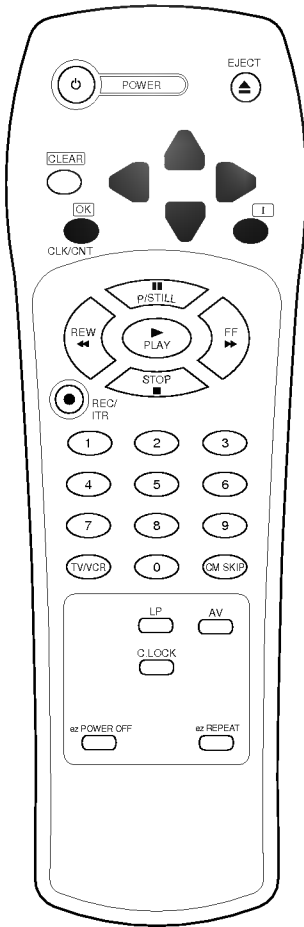




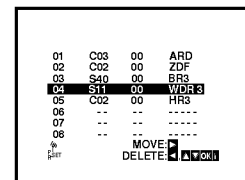
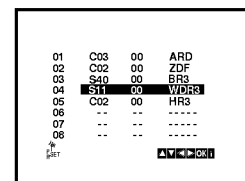
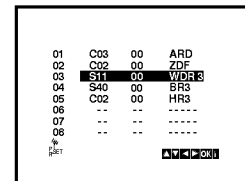
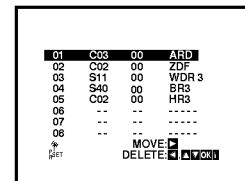
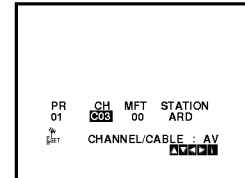
Storing TV stations

Moving the programme order of the “TV station table” menu

If you want to move the order of the TV stations you can easily do so as follows:



- 1** Press the “I” button on the remote control handset.
The menu will appear on the TV screen.
- 2** Select “PR SET” with the cursor “◀” and “▶” buttons and press the “OK” button.
- 3** Press the “I” button.
The “TV station table” menu will be displayed.
- 4** Move the cursor down or up with the cursor “▲” and “▼” buttons to select the programme that you want to move to another position in the menu (for example “Pr 03”). Now you press the “▶” button to select move.
- 5** Move the cursor to place the cursor line at the position where to insert the selected programme (example Pr 04).
- 6** Press the “OK” button.
The selected station will be moved to the new programme number.
- 7** Move other stations, if you wish, by repeating steps 4 to 6.
- 8** Press the “I” button to remove the menus from the TV screen.



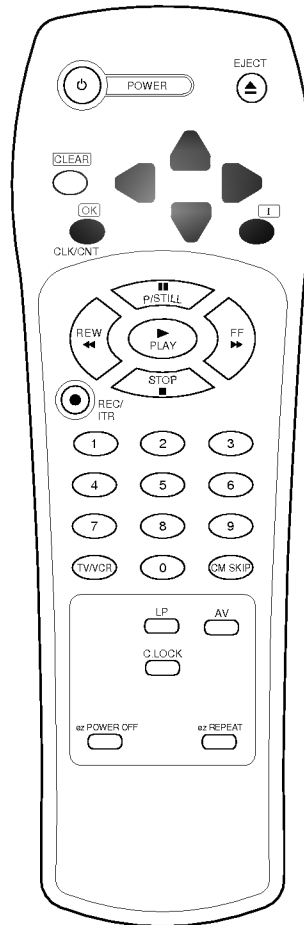
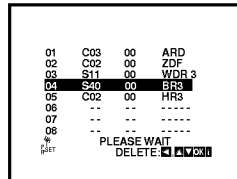
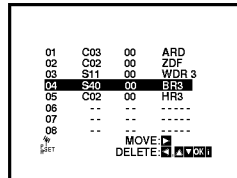
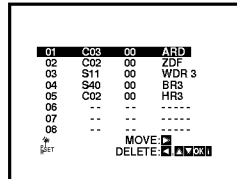
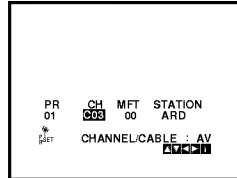
Storing TV stations



Clearing stations from the "TV station table" menu

If you want to clear a TV station from the video recorder's store you can easily do so as follows:

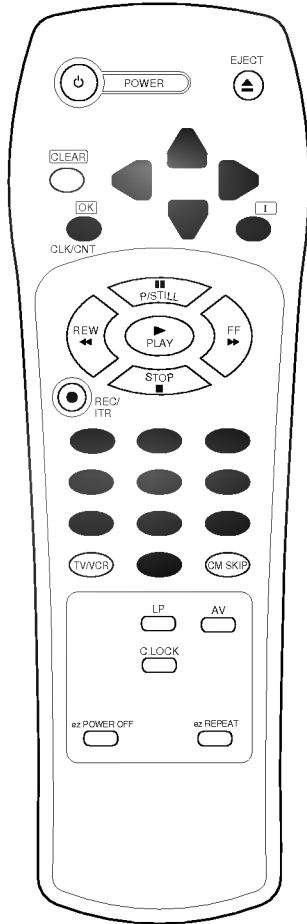
- 1** Press the "i" button on the remote control handset. The menu will appear on the TV screen.
- 2** Select "PR SET" with the cursor "◀" and "▶" buttons and press the "OK" button.
- 3** Press the "i" button. The "TV station table" menu will be displayed.
- 4** Move the cursor down or up with the cursor "▲" and "▼" button to select the programme that you want to clear. (for example station "Pr - 04").
- 5** Press the "◀" button to delete. After a short while, the selected station will be cleared.
- 6** Clear other stations, if you wish, by repeating steps 4 and 5.
- 7** Press the "i" button to remove the menus from the TV screen.





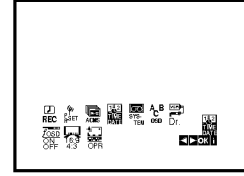
Time and date setting

Setting the video recorder's clock

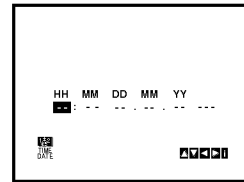


1 Press the "i" button. The Main menu appears on the TV screen.

2 Select "TIME DATE" with the cursor "◀" and "▶" buttons.

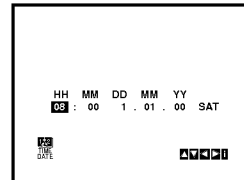


3 Press the "OK" button.



4 Use the number buttons or cursor "▲", "▼", "◀" and "▶" buttons alter the Hours, Minutes, Day, Month and Year (using the 24 hour clock).

The day of the week will appear automatically when you have entered the date.



NOTE: Enter 1 as 01, 2 as 02 etc.

- Correct errors during inputting with cursor "◀" and "▶" buttons.

5 Press the "i" button to remove the menus from the TV screen.

Using the VCR to play back a tape



NOTE - Loading and unloading of a video cassette is only possible when the video recorder is plugged into a power source.

Loading & Unloading a video cassette

- 1 Insert the cassette into the video recorder with the window side up and the arrow pointing away from you. Do not attempt to insert a cassette which is upside down or back to front.

Gently press the middle of the tape.

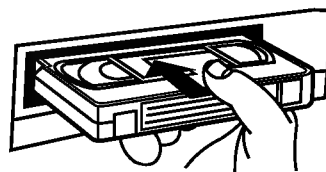
- 2 Press the "EJECT" button, on either the handset or the front panel of the video recorder.

The cassette compartment will open and the video cassette will be partially ejected.

"EJECT" will appear for a few seconds on the TV screen.

It is not necessary to switch on the video recorder, by pressing the "POWER" button before ejecting a video cassette.

Note - It is advisable to remove a video cassette from the video recorder when not in use. Rewind and unload it.



Types of video cassette

Use VHS tapes in this video recorder.

On SP (standard play) the maximum record and playback time is that given on the video cassette.

For example E-180 will record/play back for 180 minutes.

For example T-120 will play back for 120 minutes.

On LP (long play) the maximum record and playback time is twice that given on the video cassette.

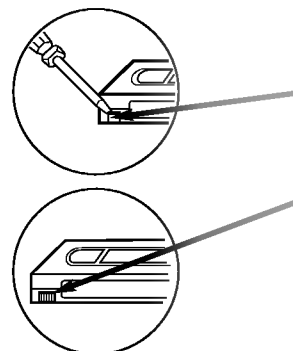
For example E-180 will record/play back for 360 minutes.

For example T-120 will play back for 240 minutes.

Accidental erasure prevention - If you do not wish to record on a tape, and hence erase what is already recorded on it, then remove the safety tab on the back edge of the video cassette.

Cover the hole with cellophane tape - It is possible to record on a video cassette from which the safety tab has been removed by covering the hole with cellophane tape.

Refer to the instructions included with the video cassette for more information.

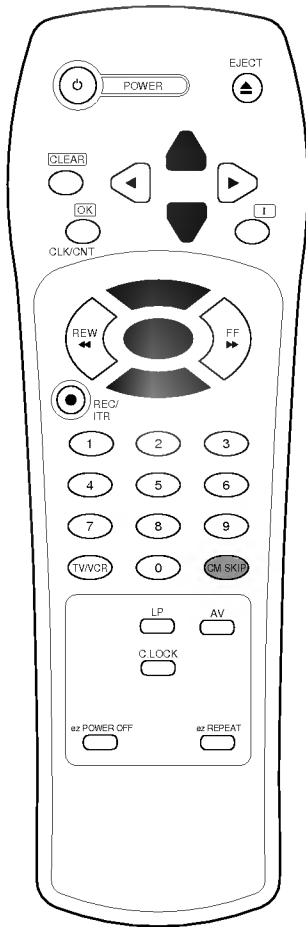


How to using the Energy saving mode

Your VCR has an Energy Save feature. If you have programmed a recording, this feature will not work.

- 1 Press the "⏻" button on the VCR.
- 2 Press the "⏻" button on the VCR again and your VCR will go into Energy Save. All the displays will be disappeared on the video recorder's display.
- 3 For releasing the energy saving mode, press the "⏻" button once again.

Using the VCR to play back a tape



Normal playback

- 1 Press the "PLAY" button to start playing a tape (called Normal playback). "PLAY" will appear for a few seconds on the TV screen.

Automatic tracking - The video recorder will automatically adjust the tracking to give the best quality picture.

Standard Play (SP) or Long Play (LP) tape -

The video recorder will automatically recognise whether the tape has been recorded at normal speed (SP) or half-speed (Long Play - LP), and play it back at the correct speed. If it is a long play tape LP will be shown on the video recorder's display.

Automatic playback - If the video cassette has had its safety tab removed, so that it cannot be erased, then the video recorder will automatically start playing the tape.

- 2 Short interruptions of the playback up to 5 minutes can be made with the "P/STILL" button. Continue playback by pressing the "PLAY" button.
- 3 End the playback with "STOP" button.
 - If the end of the tape is reached, the video recorder stops automatically, rewinds, stops, ejects the tape and switched off.

Still picture playback

You can play back a still picture as follows:

- 1 Press the "P/STILL" button during playing back. You see a still picture on the TV screen.
- 2 To switch off the still picture, press the "PLAY", or the "STOP" buttons.

The still playback will only continue for about 5 minutes, after which the video recorder will return to stop mode, to avoid damage of the tape.

CM (Commercial Message) Skip

(While in play mode) Pressing "CM SKIP" button on the remote control skips commercials or other programme material.

Pressing 1, 2, 3, 4, 5, or 6 times skips 30, 60, 90, 120, 150 or 180 seconds, respectively. CM SKIP skips at full 180 seconds of commercials in a few seconds, then resumes normal playback.

Other playback features

This video recorder will allow you to rapidly wind a tape forwards or backwards, and search a cassette tape.

Fast forward (FF)

Pressing the fast forward ("FF") button with the tape on stop, will rapidly wind the tape forward. "FF" will appear for a few seconds on the TV screen.

Rewind (REW)

Pressing the rewind ("REW") button with the tape on stop, will rapidly wind the tape backwards. "REW" will appear for a few seconds on the TV screen.

LOGIC search

If you hold down either of the search buttons ("REW" or "FF") during fast forwarding or rewinding the tape, the picture will be seen at about 7 times (NTSC recorded tape: 5 times) the normal playback speed. This enables you to see where you are on the tape. When you release the button the video recorder continues fast forward or rewind.

Picture search - CUE & REVIEW

You can also quickly carry out a visual search for a desired section on a tape using the CUE and REVIEW functions.

During playing back press either the fast forward ("FF") or rewind ("REW") button. The tape will be played forward or backwards at about 7 times (NTSC recorded tape: 5 times) the normal playback speed. When the desired point on the tape has been reached press the "PLAY" button and the video recorder will continue to play back the tape at the normal speed.

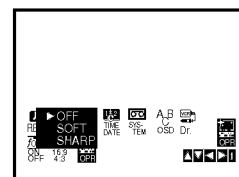
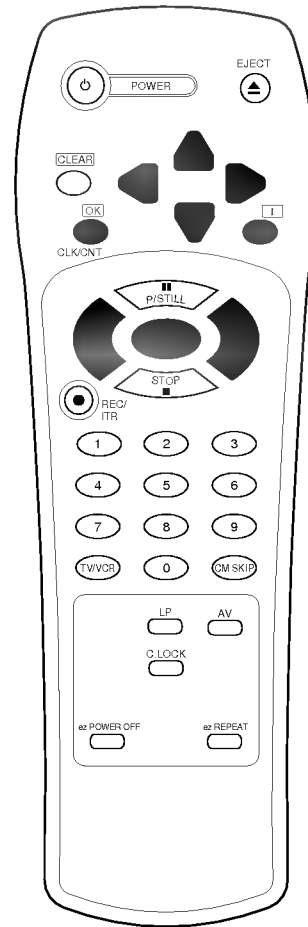
Picture search will only continue for about 3 minutes, after which the video recorder will return to normal playback mode.

Note - During a visual search or still playback, the sound is muted and there will be some "noise streaks" on the TV screen.

OPR (Optimum Picture Response)

This feature automatically improves playback picture quality by adjusting your VCR to the condition of the tape.

- 1 Press the "i" button to display the Main menu.
- 2 Press the cursor "◀" and "▶" buttons to select the "OPR".
- 3 Press the "OK" button.
- 4 Press "▲" and "▼" repeatedly to select OFF, SOFT or SHARP.
NOTE: This feature can only be operated when playing a tape.
- 5 Press the "i" button to release it.





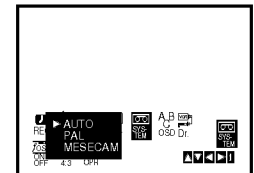
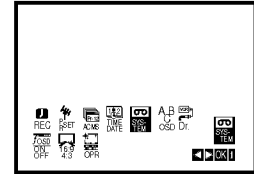
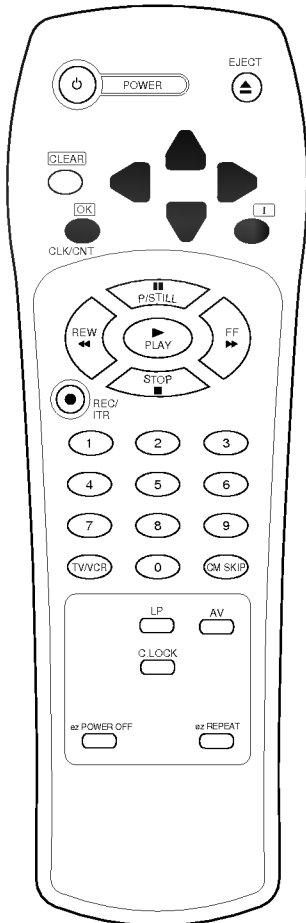
Other playback features

Selection of the colour system

Because your video recorder is equipped with dual colour standard, you can playback recordings in PAL B/G and SECAM B/G.

During playback your video recorder detects the recorded colour system automatically. Only if there are colour problems with very weak recordings, you should select the colour system manually:

- 1** Press the "i" button to display the Main menu.
- 2** Press the cursor "◀" and "▶" buttons to select the "SYSTEM".
- 3** Press the "OK" button.
- 4** Use the cursor "▲" and "▼" buttons to select the desired colour system.
"AUTO": automatic colour selection,
"PAL": PAL recordings
"MESECAM": MESECAM recordings
- 5** Press the "i" button to remove the menus from the TV screen.



Using the video recorder to record



Introduction to the recording features

There are a variety of recording modes available to you on this video recorder.

- 1** You may record immediately (a programme you may be watching).
- 2** You may record immediately for a set period of time of up to 9 hours. This is called Instant Timer Recording (ITR).
- 3** You may record at a later time (up to 1 month from the present) using the built-in timer. Up to 7 of these automatic recordings may be set at the same time -provided, of course, that there is sufficient time on the video cassette.

Note - Ensure that the safety tab has not been removed from the video cassette on which you wish to record.

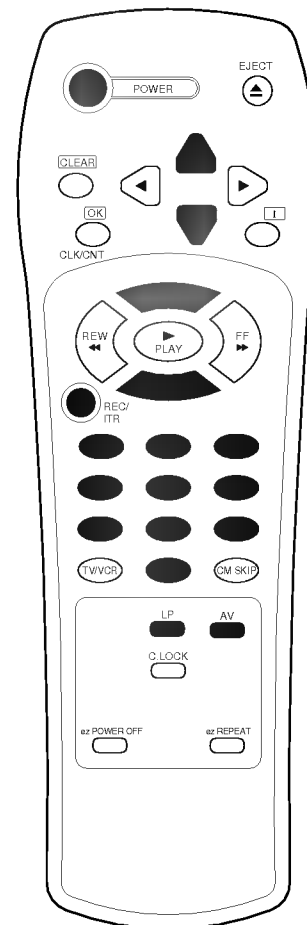
To record

- 1** Switch on the TV set and video recorder.
- 2** Insert a video cassette with the window side up, and the arrow pointing away from you, or if a video cassette is already loaded switch on the video recorder by pressing the "POWER" button.
- 3** Select the programme channel with the number buttons or cursor "▲" and "▼" buttons.

Note:

If you want to record from the EURO SCART socket on the back of the video recorder, press the "AV" button.

- 4** Select LP with the "LP" button, if you want to record in Long Play mode.
- 5** Press the "REC/ITR" button to start recording. "RECORD" will appear for a few seconds on the TV screen.
- 6** If you want to avoid recording unwanted scenes press the "P/STILL" button. "RECP" will appear for a few seconds on the TV screen. To continue recording press the "P/STILL" button again.
- 7** Press the "STOP" button to stop recording. "STOP" will appear for a few seconds on the TV screen.





Using the video recorder to record

Recording one TV programme while watching another

You can record one programme while watching another by selecting the channel you watch on your TV set.

- 1 Start a recording by following above steps 1 to 5 (see p. 19).
- 2 Select to TV mode by pressing the "TV/VCR" button on the remote control. "VCR" indicator will turn off on the video recorder's display.
- 3 Select the TV station you want to watch with the programme channel selector on your TV set.

Immediate timer (ITR)

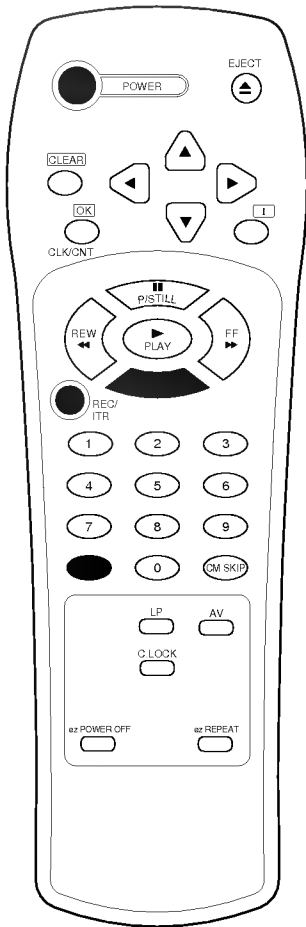
When making a recording you can set your video recorder to stop after a set period of time.

- 1 Press the "REC/ITR" button to start recording.
- 2 Press the "REC/ITR" button several times until the desired recording time is shown on the video recorder's Display.

Each time you press this button the ITR time will be extended by 30 minutes. The maximum time that can be set is 9 hours.

When the ITR recording have been completed, the video recorder will stop and switch itself off.

- 3 To cancel a ITR recording, press the "POWER" or the "STOP" button.



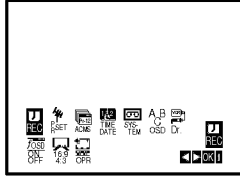
Programming the video recorder timer



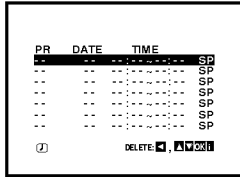
Recorder timer programming using the On Screen Displays

The timer allows you to record broadcasts automatically. Up to 7 recordings within one month can be programmed at the same time.

- 1 Press the "i" button and select "REC" with the cursor "◀" and "▶" buttons.



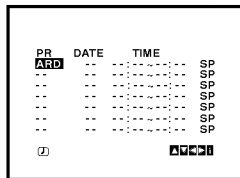
- 2 Press the "OK" button to enter the timer programming mode.



- 3 Press the "OK" button and select the programme number that you wish to record using the number buttons.

Programme number and dates 1 must be entered as 01, 2 as 02 etc.

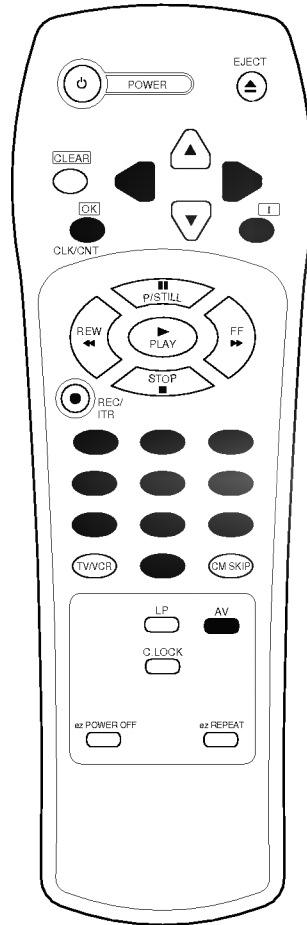
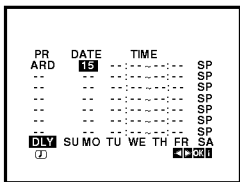
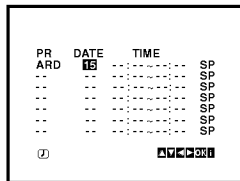
- If you want to record from the EURO SCART socket, press the "AV" button.



- 4 Press the "▶" button and enter the day using the number buttons.

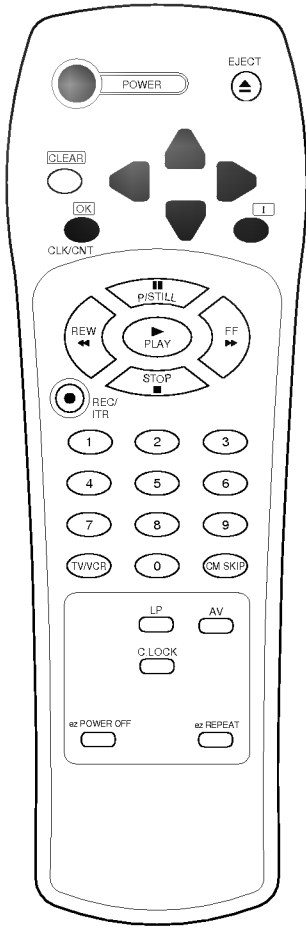
If you want to change recording type:

- 1) Press the "OK" button.
 - **DLY:** for daily recordings from Monday to Friday.
 - **Weekly** (SUN to SAT): To record a programme at the same time every week.
- 2) Select the recording type with the cursor "◀" and "▶" buttons and select it with the "OK" button.



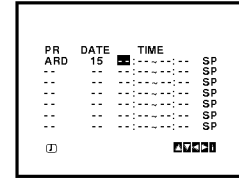


Programming the video recorder timer



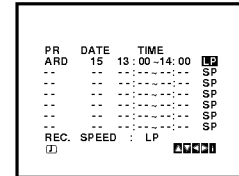
5 Enter the start and end times using the number buttons.

- For setting programme times you must use the 24 hour clock.
- Errors can be corrected with the “◀” and “▶” buttons.



6 Press the “▶” button and select the recording speed by using the cursor “▲” and “▼” buttons.

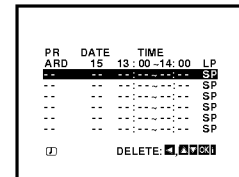
- LP: for Long play.
- SP: for Standard play.



7 Finish your timer inputs with the “i” button.

A menu of the timer programmes set into the video recorder will be displayed on the TV screen.

- If “PLEASE CHECK” is displayed, you have entered a wrong data. Please correct the data.



8 Press the “i” button to remove the menus from the TV screen.

9 Make sure that there is a video cassette in the video recorder and switch the video recorder off with the “POWER” button.

The timer set “TIMER” indicator is lighted on the video recorder.

Programming the video recorder timer



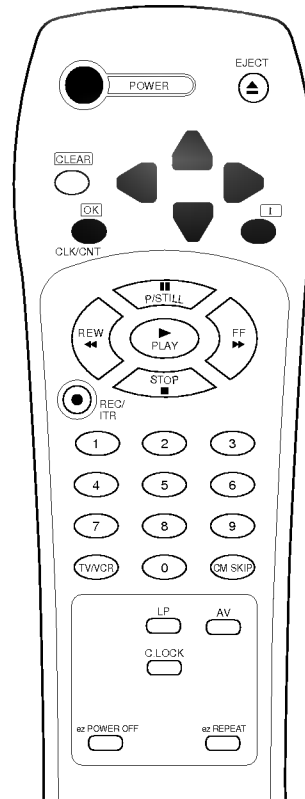
Checking and clearing stored timer programmes.

The stored timer programmes can easily be viewed on the TV screen, and can also be cleared if not wanted.

- 1** Press the "i" button and select "REC" with the cursor "◀" and "▶" buttons.
- 2** Press the "OK" button. The timer programmes list will be displayed on the TV screen.
- 3** If you wish clear any of the programmes on the list, select it with the cursor "▲" and "▼" buttons, and press the "◀" button to clear.
- 4** If you wish change any of the data for any of the programmes on the list, select it with the cursor "▲" and "▼" buttons. Then, press the "OK" button and change the data as described on previous page.
- 5** Press the "i" button twice to remove the menus from the TV screen.

PR	DATE	TIME	LP
ARD	15	13:00-14:00	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP

DELETE: [Left] [Right] [OK]

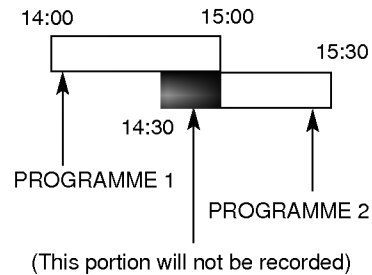


Overlapping timer programmes.

When timer programmes overlap, the programme which is already recording continues to its scheduled end time.

Hence the beginning of the second programme will not be recorded.

NOTE - If you wish to stop a timer recording which has already started, press the "POWER" button.





Other features

Introduction

This video recorder has a number of other features which make it easier and more convenient to use. Some of these are described in this section of the manual. Later sections describe the connection of the video recorder to other equipment, and features relating on the video recorder.

The features described here are:

- 1** The On Screen Display of the time or tape counter, date, programme channel and operation mode of the vide recorder.
- 2** The Digital Tape Counter and Remaining Tape Volume indicator.
- 3** The Memory Stop facility that can be used during rewind to stop the tape at a preset point.
- 4** The tracking control that optimises the picture quality.
- 5** The Automatic Playback facility which plays back a tape, rewinds and ejects it and switches off the video recorder.
- 6** Automatic Memory Power Shut Off when a video cassette is rewound.
- 7** A Child Lock facility so that the video recorder can be controlled only from the handset.
- 8** The 16:9 wide-screen recording and playback.
- 9** Self-diagnosis.

Other features

ON SCREEN DISPLAY OF THE TIME OR TAPE COUNTER, REMAINING TAPE VOLUME, DATE, PROGRAMME CHANNEL AND OPERATION MODE OF THE VIDEO RECORDER.

When the "OK/CLK/CNT" button is pressed, a display occurs on the TV screen of the current time or the tape counter and the remaining tape volume, the date, year and day of the week, the programme channel and the operation mode of the video recorder.

The tape counter and the volume of the tape remaining appear only while a tape is loaded. After two seconds the clock display or the tape counter and the volume of tape remaining will only remain. If you press the "OK/CLK/CNT" once again within two seconds the clock display changes to the tape counter and the volume of the tape remaining or vice versa. Press the "OK/CLK/CNT" button again to remove the display from the TV screen.

Note - If a recording is taking place these On Screen displays will not be recorded onto the tape.

Digital Tape Counter/Remaining Tape Volume

The Digital Tape Counter and Remaining Tape Volume can be displayed on the TV screen instead of the time by repeatedly pressing the "OK/CLK/CNT" button.

The Digital Tape Counter gives you the relative positions of recordings on the tape. If you set the counter to 0:00:00 at the beginning of a tape, you can note the counter reading at the beginning of each separate recording.

To set the counter to M 0:00:00 press the "CLEAR" button.

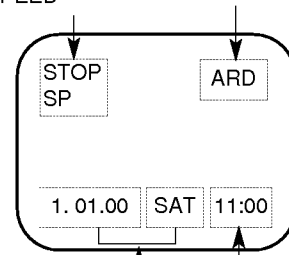
The memory stop facility

Memory Stop automatically stops a tape when the tape counter is 0:00:00. This feature may be used to return the tape to a preselected position immediately after making a recording, or to repeatedly playback a portion of a tape.

- 1** Press the "OK/CLK/CNT" button to set the display to the counter.
- 2** Before playback or recording, press the "CLEAR" button. The counter will read M 0:00:00.
- 3** Begin the playback or recording.
The tape counter gives the actual time in hours, minutes and seconds.
- 4** Press the "STOP" button when playback or recording is completed.
- 5** Press the "REW" button. The tape will rewind and automatically stop when the counter returns to M 0:00:00.

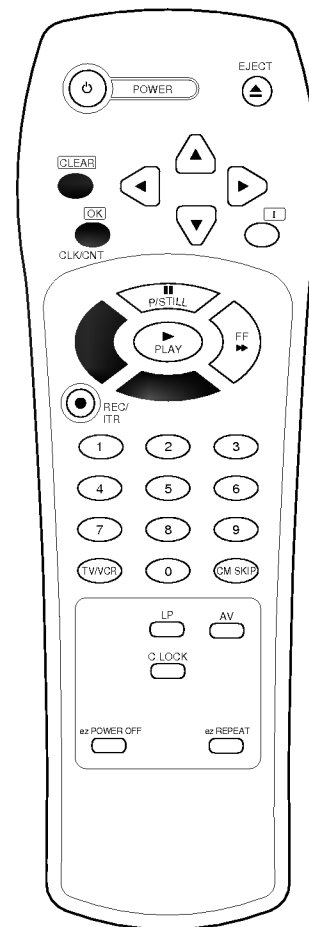


VCR RECORDER CHANNEL
FUNCTION/ PROGRAMME
SPEED



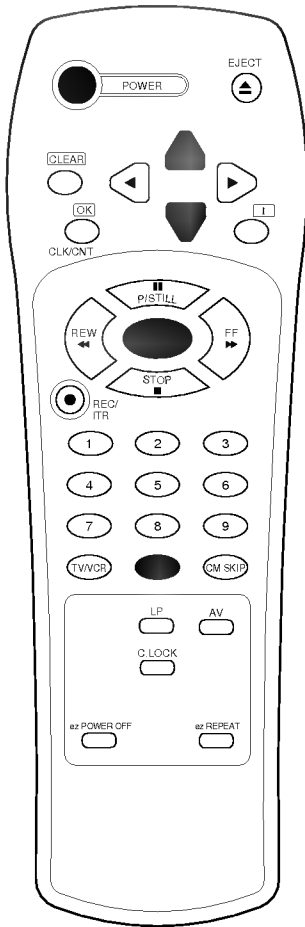
DAY/MONTH/
YEAR/DAY OF
THE WEEK

Clock/Tape
counter/Remaining
Tape Volume





Other features



Tracking Controls

Tracking distortions show up as streaks or an unstable picture. This video recorder can set the tracking automatically. You can also set the tracking manually if you need to do so.

Automatic tracking - The automatic tracking adjusts the tracking to playback a tape with the optimum picture quality. As soon as you start to playback a tape the tracking will be adjusted if necessary.

Manual tracking - If the quality of the recording is poor, or if the tapes are damaged, the automatic tracking will not be able to work correctly. In these cases you will have to remove tracking distortions manually.

You can adjust the tracking during playback with the cursor “▲” and “▼” buttons. Press them repeatedly until the distortions have been eliminated.

You can switch on the automatic tracking again after using the manual tracking feature by pressing the “0” button. When you change a video cassette, the automatic tracking will always be switched on again.

Automatic Playback

Automatic Playback is a very convenient automatic action of this video recorder. It occurs whenever you insert into the video recorder a video cassette from which the safety tab has been removed (e.g. a video cassette which you have hired).

Automatic Playback carries out the following procedures:

It automatically switches on the video recorder's power and starts to playback the tape.

At the end of the tape, it automatically rewinds.

The tape is ejected automatically.

The video recorder switches itself off.

Automatic Memory Power Shut-Off

This feature of the video recorder enables you to initiate switching off the video recorder during tape rewind. Hence you do not have to wait until a tape has rewound before you can switch the video recorder off.



To activate Automatic Memory Power Shut Off press the “POWER” button during tape rewind. The tape will rewind to the beginning and the video recorder will switch itself off.

Pressing any of the control buttons (e.g. “POWER” or “PLAY”) after setting Automatic Memory Power Shut Off will cancel it.

Other features

The Child Lock

The control buttons on the front of the video recorder are inoperative. The video recorder can be controlled only from the handset.

- 1 Press the "C.LOCK" button.  **SAFE** will appear on the TV screen.
The control buttons on the front of the video recorder are inoperative (except for "STOP/EJECT"). The video recorder can be controlled only from the handset.
- 2 To switch off the locking, press the "C.LOCK" button again.
 **SAFE** will disappear on the TV screen.

16:9 Compatibility (Wide - screen TV)

This video recorder can be recorded and played back the 16:9 wide aspect ratio programmes.

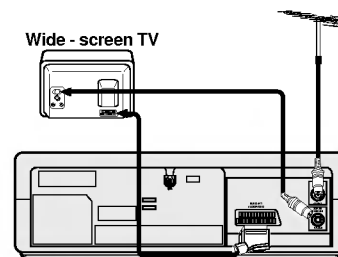
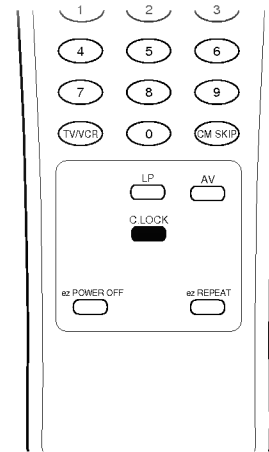
Select the required position in the main menu as described on page 8:

To record in a wide-screen format, you have to set to "16:9", or if you set to "4:3" the video recorder will be recorded in normal format.

When you set to "AUTO", the video recorder will be automatically played back the wide-screen programmes as wide, the normal programmes as normal.

NOTE:

When the picture disappears on the TV screen while playing back a 16:9 programme or recording in 16:9 format, set the TV to "AV" mode.



Self-Diagnosis

This function informs you of an error messages for solving the problems more easily.

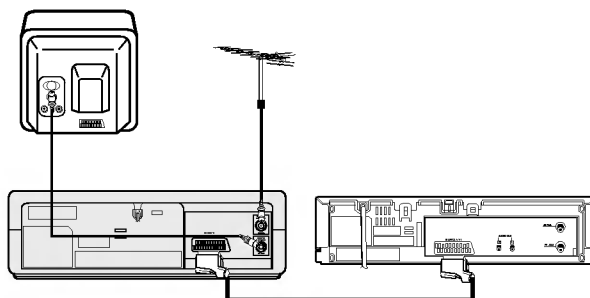
- 1 Press the "i" button on the remote control handset. The menu will appear on the TV screen.
- 2 Select "Dr." with the cursor "◀" and "▶" buttons and press the "OK" button.
- 3 Check a problem with the cursor "▲" and "▼" buttons.

Menu of Video Doctor	Status of Display	Solution & Information
HEAD STATUS	PLEASE CLEAN	Clean your video heads
TAPE STATUS	NOT RECORDABLE	Insert a tape with its protection tab in place
NO.OF TIMER PROGRAMME	1	Shows the number of timer recording
NEXT TIMER PROGRAMME	ARD 26 10:00~ 11:00	Shows the status of current timer recording

- 4 Press the "i" button.



Recording from another equipment



Recording from a second video recorder (for tape copying)

- 1** A second video recorder (for tape copying) should be connected to the EURO SCART socket on the back.
- 2** The audio/video mode should be set with the "AV" button.
- 3** Insert an empty cassette into this video recorder, and if you are copying another tape insert it into the second video recorder.
- 4** Start recording on this video recorder, and if appropriate, the playback at the second video recorder.

NOTE - *Unauthorised recording of copyrighted TV programmes, films video cassette and other materials may infringe the rights of copyright owners and be contrary to copyright laws.*

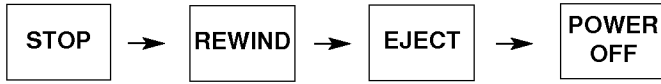
ez (easy) operations



ez (easy) power off

The sequence "Stop → Rewind → Eject → Power Off" is operated automatically by pressing **ez POWER OFF**.

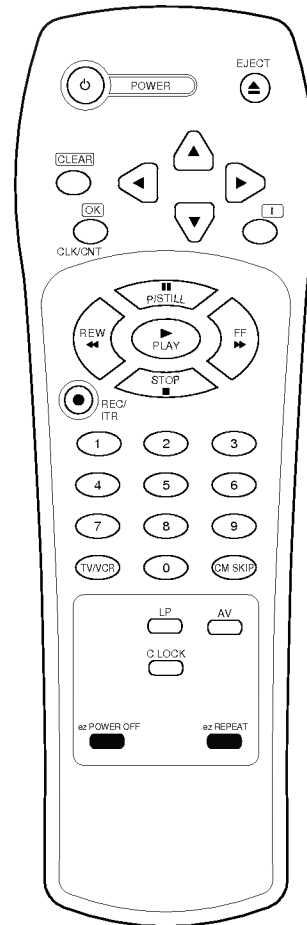
- 1 During play back press **ez POWER OFF**.
- 2 Your VCR will be operated as the following :



ez (easy) repeat

By pressing & holding **ez REPEAT** during play back, the holding section is replayed twice automatically.

- 1 During play back, press & hold **ez REPEAT** at the point where repeat play is to be concluded.
- 2 Then, your VCR will go into reverse search.
- 3 Release **ez REPEAT** at the point where repeat play is to start.
- 4 The holding section is replayed twice automatically.
- 5 Pressing **ez REPEAT** again during repeat play, will return to normal play.





Specifications

General

Power	: 200-240V~, 50Hz.
Power consumption	: Approx. 16 watts (Energy saving mode: 3 watts)
Video Head system	: Rotary 2 heads, helical scanning
Tape speed	: 23.39 mm/sec (SP mode)/11.69 mm/sec (LP mode)
Tape format	: Tape width 1/2" (12.7 mm high density VHS tape)
Maximum recording time	: 4 hours in SP mode/8 hours in LP mode (with E-240 tape)
Rewind time	: Approx. 180 sec. (with E-180 tape)
Dimensions (W X H X D)	: 14.2" X 3.7" X 11.8" (360 X 94 X 270 mm)
Weight	: 8.6lbs. (3.4 kg)
Operating temperature	: 41 °F-95 °F (5 °C-35 °C)
Operating humidity	: Less than 80 %
Timer	: 24 hours display type

Video

Television system	: CCIR standard (625 lines, 50 fields) PAL (B/G), SECAM (B/G) colour signal
Recording format	: PAL/MESECAM
RF reception	: PAL B/G, SECAM B/G
Input level	: VIDEO IN (SCART type) 1.0 Vp-p, 75 ohm, unbalanced
Output level	: VIDEO OUT (SCART type) 1.0 Vp-p, 75 ohm, unbalanced
Signal to noise ratio	: More than 43 dBm

Audio

Input level	: AUDIO IN (SCART type) -6.0 dBm, more than 10 kΩ
Output level	: AUDIO OUT (SCART type) -6.0 dBm, less than 1 kΩ
Audio track	: Mono track
Audio frequency response	: 100 Hz-10 kHz (-6/+3 dBm)
Audio signal to noise ratio	: More than 43 dBm

- *Design and specifications are subject to change without notice!*

Before calling for service...



Please check to see if any problem which you may have with your video recorder is described here before taking it for service or calling a service engineer.

Problem	Possible solution?
No mains power to the recorder	<ul style="list-style-type: none">• Is the video recorder plugged into the mains?• Is the mains supply on and switched on?
TV programmes cannot be recorded	<ul style="list-style-type: none">• Can you get a picture on the TV screen?• If are not the aerial and RF lead connected?• Are the TV channels properly tuned in?• Has the safety tab been removed from the video cassette to prevent recording?
A timer recording does not take place	<ul style="list-style-type: none">• Is POWER off?(Is the "TIMER" lighting in the display?)• Were the recording start and end times set correctly?• Are the timer settings in the timer menu?• Was the power interrupted after setting the timer? If so the time setting will be erased and timer recordings will not take place.
AUTO PLAY does not work	<ul style="list-style-type: none">• Has the safety tab been removed from the video cassette?
There is no picture on playback, or it is noisy and streaky	<ul style="list-style-type: none">• Are the TV channels properly tuned in?• Try another video cassette.• Can you minimise the noise bars to an acceptable level with the "0" or "▲" and "▼" buttons?
The top of the playback picture is unstable	<ul style="list-style-type: none">• Is the video cassette damaged? Try another one.• Adjust the horizontal hold control on you TV set.
Video cassettes cannot be inserted	<ul style="list-style-type: none">• Is the cassette compartment empty?• Are you trying to insert the cassette the right way round?

Video Head Cleaning

- Whenever a video cassette is inserted into or ejected from this video recorder the video head is automatically cleaned.
- Therefore additional head cleaning should not be necessary. However dirt accumulating on the head after a long period can cause the playback picture to become blurred or broken up.
- High quality video cassette tapes will not normally deposit dirt onto the video head, but old or damaged tapes might.

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