LG

NeTEE

Video Cassette Recorder

OWNER'S MANUAL

MODEL: BN200PR/BN200PG/ BN200PB

VHS

PAL

Before connecting, operating or adjusting this product, please read this instruction booklet carefully and completely.

Precaution & features Information



Position your VCR so that no bright light or sunlight falls directly onto it.

Care should be taken not to expose your VCR to any unnecessary vibration, moisture, dust or heat.

During electrical storms it is advisable to unplug both the aerial cable and mains plug to prevent accidental damage to your VCR and TV.

Do not operate your VCR if it is damaged. Your VCR should not be repaired by anyone except qualified service personnel.

Never remove the back cover of your VCR as this can expose you to very high voltage and other hazards. If your VCR does not operate properly, please check the Troubleshooting Check List (see p.27). If your VCR still does not operate properly, unplug it and call your dealer.

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



Just to name a few examples of the extraordinary features:

- ez (easy) operations (see p. 25)
- Programmable 80 channel memory with Frequency synthesised tuner
- ACMS (Automatic Channel Memory System)
- 7 event/1 month programmable timer
- Recording and playback for 16:9 Wide-screen format
- LP - Long Play - recording & playback
- Energy Saving function
- ICON OSD (On Screen Display)
- NTSC playback on PAL TV
- Logic & Picture Search
- Child Lock
- Auto Head Cleaner
- Auto Power on and Play
- Real Time Counter
- Quick Start function
- Auto Tracking System

Table of Contents



Welcome to LG

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

Description **2 - 5**
- Precaution & Features information 2
- Remote Control Location & functions 4
- Your VCR's Controls 5

Setting Up **6 - 12**
- Connecting to your TV 6
- How to Using the main menu 7
- Tuning in TV Stations Automatically 8
- Tuning in TV Stations Manually 9 - 10
- Changing the order of TV Stations 11
- Deleting TV Stations 12

Basic Operations **13 - 18**
- Playback a tape 13 - 14
- Recording TV programmes 15 - 16
- To set the Colour System 17
- Setting the Clock Manually 18

Advanced Operations **19 - 25**
- Timer Recording Using On Screen Display 19 - 20
- Energy Saving 21
- On Screen Display 21
- Tape Counter Memory Stop 22
- Child Lock 22
- Wide Screen Compatibility (16:9) 23
- Memory Shut-Off 24
- Self-Diagnosis 24
- ez (easy) operations 25

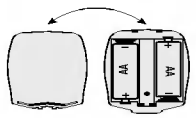
Helpful Hints **26 - 27**
- Tape Copying 26
- Specifications 26
- Troubleshooting Check List 27

Remote Control
Location & functions

To install batteries:

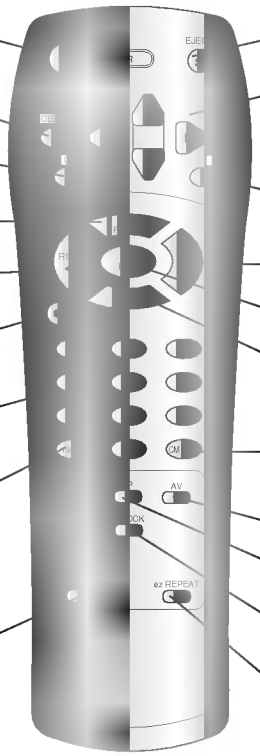
Your REMOTE CONTROL HANDSET is powered by two **AA** type batteries.

1. To insert them, push the tab backwards and lift off the cover of the handset.
2. Put the two batteries into the compartment making sure the + and – are correctly positioned.
3. Replace the cover.



Your video recorder (VCR) is designed so that almost all of its features can be controlled from the REMOTE CONTROL HANDSET. Some features can also be controlled from the FRONT PANEL of the video recorder. The maximum operating distance that you may control your video recorder is about 7.5 metres (25 feet). It must also be within an angle of 30 degrees either side of the REMOTE SENSOR on the front of your video recorder.

To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time. Do not use batteries of differing age or type. Always discard batteries safely.



POWER
To switch the VCR on or off

CLEAR
Reset tape counter to zero

OK/CLK/CNT
Calls the on screen display. (see p. 21 to 22)

P/STILL
Switches to a still picture

REW
Rewinds the tape.
Reverse high speed picture play.

REC/ITR
Starts instant recording (see p. 15 to 16)

Numbered buttons
To select channels.
Programme number information on screen.

TV/VCR
VCR; to monitor, view playback or view the VCR's tuner
TV; to watch TV or view another programme while recording another programme (see p. 16)

ez POWER OFF
(see p. 25)

EJECT
Ejects tape

CURSORS
To adjust tracking.
To control on screen display information, channel up & down selection and vertical tremble during picture still.

i
Displays on screen menu

FF
Winds the tape forwards
Forward high speed picture play

PLAY
To play the tape

STOP
To stop the tape

CM SKIP
To fast forward picture search through 30 seconds of a recording (see p. 14)

AUDIO/VIDEO MODE
Select input source for recording

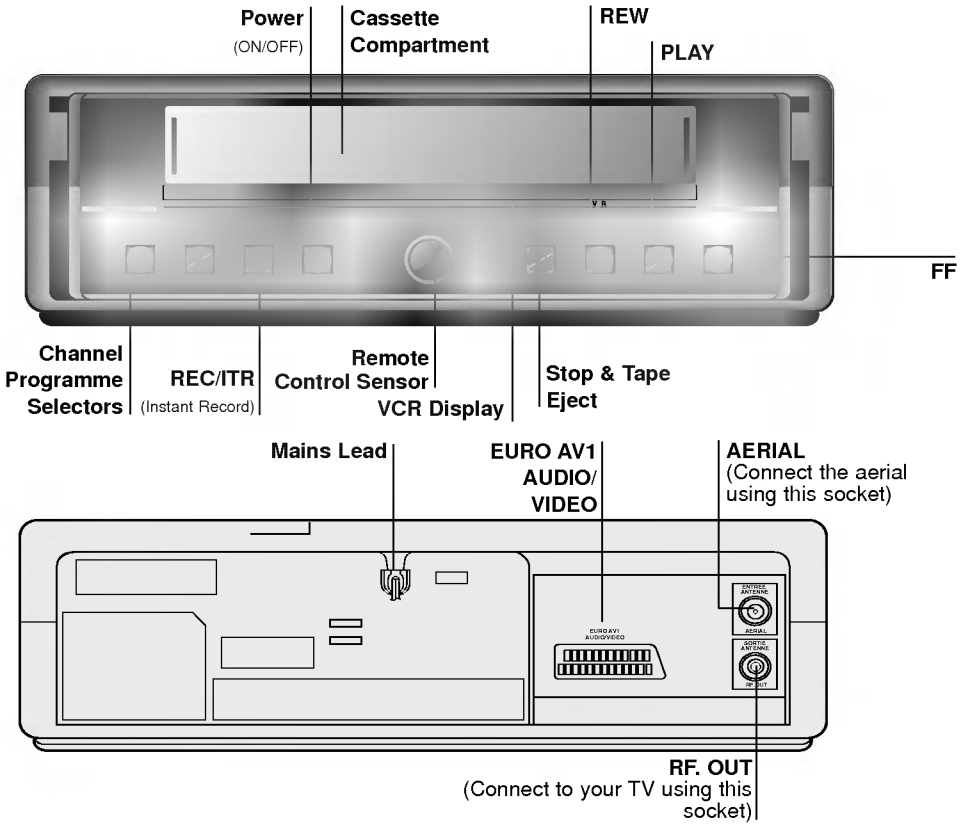
LP
To select the recording speed of the tape

C.LOCK
Switches the Child Lock on and off (see p. 22)

ez REPEAT
(see p. 25)

Your VCR's Controls

Each button on your VCR has the same function as its corresponding button on the remote control handset.



Connections
To a TV

Using your VCR very first time
Following picture will display on the TV screen when you have just connected your video recorder for the very first time.

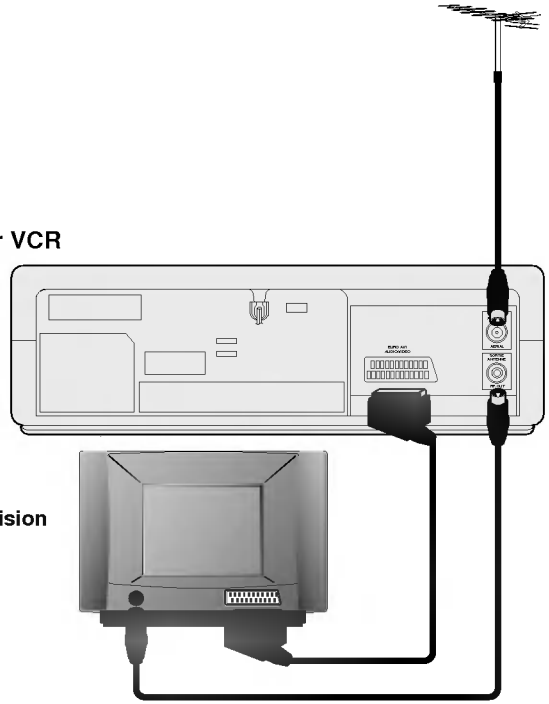
To make tuning TV stations, please follow stages 3 to 4 as shown “ACMS” (see p. 8).



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.

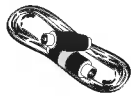
Back view of your VCR

All connections must be made with both your VCR and TV unplugged from the mains.



Television

Aerial
The quality of the sound and picture can be greatly influenced by the positioning, quality and state of repair of your external aerial.



Aerial Connection Cable (75 ohms) Do not try and force the connector into place, it should plug in easily.

How to
Using the main menu

This VCR can easily be programmed by using the menus displayed on screen.
The menus are controlled from the REMOTE CONTROL HANDSET.

1 Switch on your TV set and video recorder by pressing the **POWER** button.



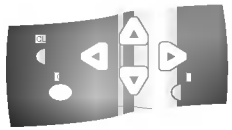
2 Press **i** button.

The main menu will appear on the TV screen.

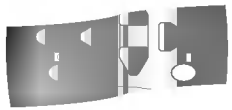


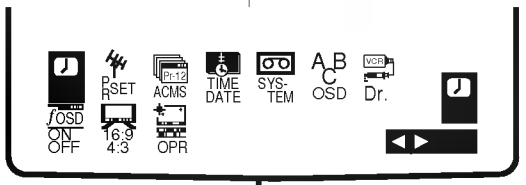
3 Press ◄ and ► to select the desired menu.

Press **OK** and press ▲ or ▼ to select.



4 Press **i** to remove the menus from the TV screen.





- **REC -** Timer recording setting (see p. 19 to 20).
- **PR SET -** Manual tuning setting (see p. 9 to 10).
- **ACMS -** ACMS (Automatic Channel Memory System) (see p. 8).
- **TIME DATE -** Date & clock setting (see p. 18).
- **SYSTEM -** To set the Colour TV System (see p. 17).
- **ABC OSD -** To change the language setting for OSD (see right).
- **Dr. -** To check a problem with your VCR (see p. 24).
- **OSD ON/OFF -** To display the operational mode of your VCR (see p. 21).
- **16:9/4:3 -** To select the aspect ratio of your TV (see p. 23).
- **OPR -** To improve the playback picture (see p. 14).

LANGUAGE SELECTION
You can select the language among English, Deutsch, Français, Italiano, Español and Dutch.

Tuning in TV stations Automatically

1

Press **POWER** to turn on your VCR.

2

Press **i.**

The main menu will appear on the TV screen.

Press ◄ or ► to select the **ACMS**.

Press **OK**.

3

Press ◄ or ► to select **COUNTRY**.
(**A: A**ustria, **B: B**elgium, **CH: S**witzerland, **D: G**ermany, **DK: D**enmark, **E: S**pain, **F: F**rance, **I: I**taly, **N: N**orway, **NL: N**etherlands, **P: P**ortugal, **S: S**weden, **SF: F**inland, Others)

Press **OK** again to start the automatic tuning process.

4

The TV station table will appear when tuning is complete.

Press **i** to save your settings.

Tuning in TV stations Manually



In certain areas of the country broadcast signals may be too weak for your VCR's automatic tuning process to find or assign TV stations correctly.
You must tune in these weaker broadcast stations manually in order for your VCR to store them.

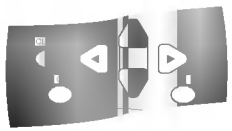
1

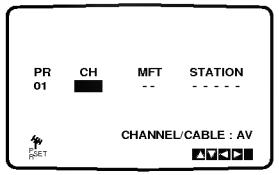
Press **i.**

The main menu will appear on the TV screen.

Press ◄ or ► to select the **PR SET**.

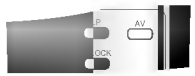
Press **OK**.





2

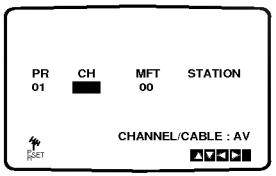
Press **AV** to select **C** (Standard stations) or **S** (Cable stations):
C02 - C71, S01 - S41.



Repeatedly press ▲ or ▼ to tune in the TV station.



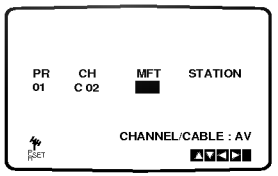
If you know the broadcast station number of your particular TV station you may enter its number directly by using the number buttons on the remote control.



3

Press ► to select **MFT**.
Press ▲ or ▼ to adjust.





4

Press ► to select **STATION** so that you may name your TV station.



Press **OK**.



The TV station name list will appear.



5

Press ▲ or ▼ to select a station name from the list.

Press **OK** to select it.







6

You can change a TV station name manually rather than using the "standard" names.

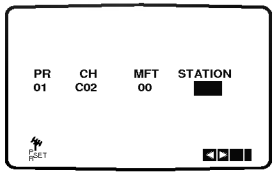
Press ►.

Press ▲ or ▼ to select **letters** and **numbers** for the new station name.

Press ◄ or ► to move back and forth between characters.

Press **OK**.



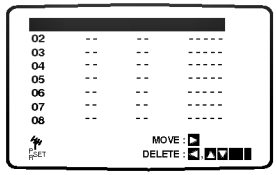


7

Press **i**, confirm the station placement.

If you wish to manually tune other stations repeat stages **1 - 7**.





8

Press **i** again.

Your new TV station has now been tuned into your VCR.



Changing the order of TV stations



After tuning TV stations into your VCR you may wish to **change** the order in which they are stored without having to retune them against! The instructions given on this page will show you how you can simply move them into your desired order.

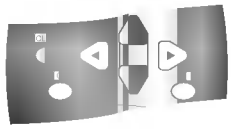
1

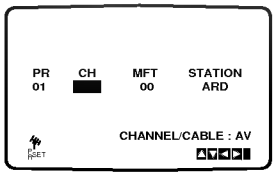
Press **i.**

The main menu will appear on the TV screen.

Press ◄ or ► to select the **PR SET**.

Press **OK**.





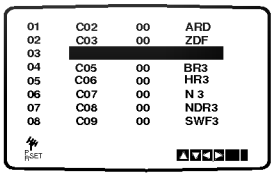
2

Press **i.**

Press ▲ or ▼ to select the **programme number** you want to move (for example, PR 03).

Press ►.

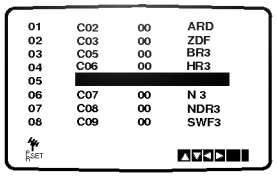




3

Press ▲ or ▼ to select the **programme number** you want to move to (for example, PR 05).



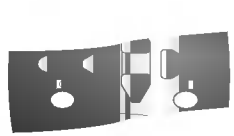


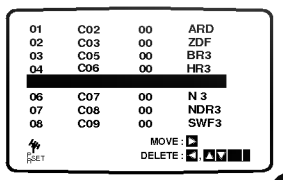
4

Press **OK**.
The selected **programme** will be moved to the **new programme number**.

If you wish to move other TV stations repeat stages 1 - 4.

Press **i** to remove the menus from the TV screen.





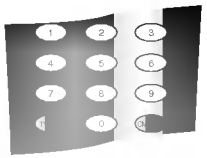
Deleting TV Stations

How to selecting Stored TV stations:

Stored TV stations can be selected in either of two ways.
Press ▲ or ▼ to select different stations that are tuned into your VCR.



You may also directly select stations using the **numbered buttons** on the remote control.



After tuning TV stations into your VCR you may wish to **delete** a station.
The instructions given on this page will show you how easily delete any unwanted TV stations.

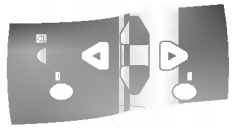
1

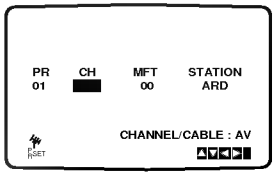
Press **i.**

The main menu will appear on the TV screen.

Press ◄ or ► to select the **PR SET**.

Press **OK**.



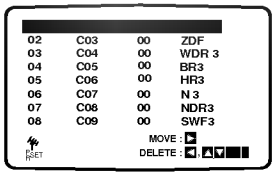


2

Press **i.**

Press ▲ or ▼ to select the **programme number** you want to delete.



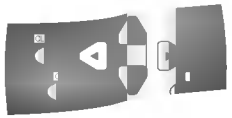


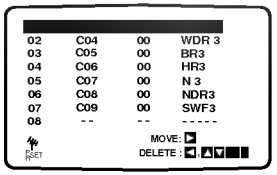
3

Press ◄.

After a short while, the selected station will be deleted.

The following stations are resorted automatically.





4

Press **i** to remove the menus from the TV screen.

If you wish to delete other TV stations repeat stages **1 - 3**.



Playback
a tape



You will only be able to load and eject video cassettes when your VCR is plugged into the mains.
Your VCR may also playback recordings from NTSC tapes (on PAL TV).

Getting a better picture

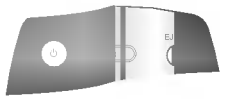
When a cassette is inserted and playback started, the automatic tracking function works to get the best possible picture automatically. If the quality of the recording is poor, repeatedly press ▼ or ▲ on the remote control to manually adjust the tracking until any distortions have been removed. Press **numbered 0** on the remote control to switch automatic tracking back on again.

1

Make sure that you have correctly connected your VCR as described earlier in this book.

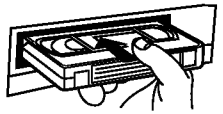
Turn on your TV.

Press **POWER** to turn on your VCR.



Insert the video cassette into your VCR.

The video cassette should have the window side facing up and the arrow facing away from you.



2

Press **PLAY** to start playing your tape.



If you load a video cassette which has had its record protection tab removed playback of the cassette will start automatically.

AUTO TRACKING
Your VCR will automatically adjust the tracking to give the best picture quality.

3

Press **P/STILL** to still a picture.



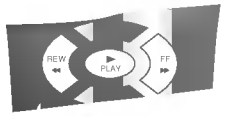
Tapes can be paused for up to 5 minutes. After 5 minutes your VCR will stop the tape to prevent damaging the tape or your VCR .

4

Press **PLAY** to continue playing your tape.

Picture search:
During playing back press either **FF** or **REW** to this will enable you to rapidly wind the tape (7 times normal playback) see where you are on the tape.

Logic search:
During fast forwarding or rewinding press and hold **FF** or **REW** the picture will be played back at 7 times normal playback speed.





Picture search will only continue for about 3 minutes, after which your VCR will return to normal playback. During picture search, logic search, and CM Skip the sound is muted and there will be some noise streaks on the picture.

5

Press **STOP** to end playback.



Press **EJECT**.



If the end of the tape is reached, your VCR will stop playback automatically, rewind, stop, eject the tape and place itself into power off mode.

CM (Commercial Message) Skip:

This feature enables you during playback of a tape to skip a commercial break in a few seconds, then resume normal playback.

While tape is playing press **CM SKIP** on the remote control to skip commercial (or another programme material).



Repeatedly press **CM SKIP** to skip:

1 Press	30 seconds
2 Press	60 seconds
3 Press	90 seconds
4 Press	120 seconds
5 Press	150 seconds
6 Press	180 seconds

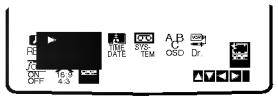
OPR (Optimum Picture Response):

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

Press **i**.

Press ◄ or ► to select **OPR**.

Press **OK**.



Press ▲ or ▼ repeatedly to select: **OFF, SOFT** or **SHARP**.

Please note you may only set OPR when playing a tape.

Press **i** to remove menus from the TV screen.

Recording

TV programmes

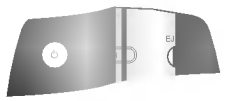


Your VCR allows you to make recordings using a variety of simple methods:
Instant Timer Recording (ITR) start recording immediately for a set period of time or until the video cassette runs out.

1

Make sure that you have correctly connected your VCR as described earlier in this book.

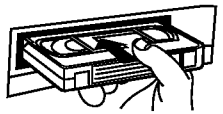
Press **POWER** to turn on your VCR.



2

Insert a video cassette with protection tab into your VCR.

The video cassette should have the window side facing up and the arrow facing away from you.

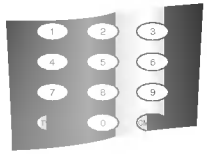


3

Press ▲ or ▼ to select the **programme number** you wish to record.

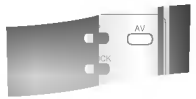


You may also directly select programme number using the **numbered buttons** on the remote control.



4

If you wish to record directly from the SCART socket press **AV**.



If you do not wish to record on a tape (this can happen quite easily by accident!) remove the protection tab on the back edge of the video cassette.

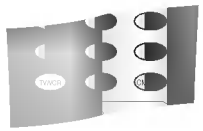


It is possible to record on a video cassette with the record protection tab removed by covering the hole with self adhesive tape.



Your VCR incorporates Long Play (LP) which enables you to record up to twice the amount of time on a video cassette. For example an E-180 will record up to 180 minutes using Standard Play (SP); using LP you will be able to record up to 360 minutes. **Please note** there will be a slight loss in picture and sound quality when using LP.

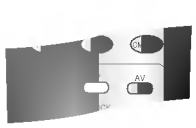
Remember you can record one programme while watching another by starting your instant recording, press **TV/VCR** to select TV mode and then selecting a different channel on your **TV**.



5

Press **LP** if you wish to record in Long Play or Standard Play.

SP will produce improved picture and sound quality, however LP will provide twice as much recording time as SP. SP or LP will be displayed in your VCR display to let you know which you have selected.



6

Press **REC/ITR** to start recording.

RECORD will appear on the TV screen.

Press **REC/ITR** several times. Each successive press will increase the record time by 30 minutes until you reach a maximum of 9 hours.

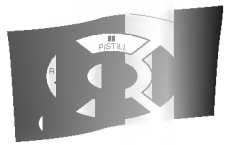


7

Press **P/STILL** to avoid recording unwanted scenes.

Press **P/STILL** to continue recording.

Tapes can be paused for up to 5 minutes; RECP will be displayed when a tape is paused. After 5 minutes your VCR will stop recording to prevent damaging the tape or your VCR.

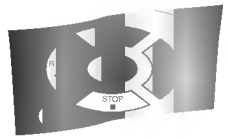


8

Press **STOP** to end recording.

Press **EJECT**.

EJECT will appear on the TV screen and on the video recorder's display for a few seconds.





To set the colour system



Your VCR is equipped with triple colour standard, you can play back a tape in PAL and MESECAM.
During playback your VCR detects the colour system automatically.
It there are colour problem please select the colour system manually.

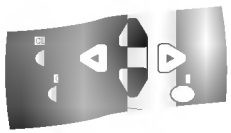
1

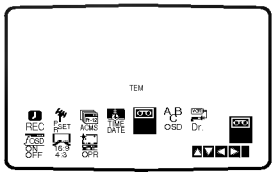
Press **i.**

The main menu will appear on the TV screen.

Press ◄ or ► to select the **SYSTEM**.

Press **OK**.





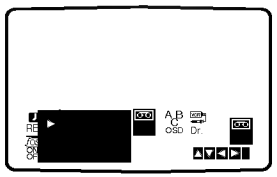
2

Press ▲ or ▼ to select according to the **COLOUR** system used.

AUTO: automatic colour selection,
PAL: PAL recordings
MESECAM: MESECAM recordings.



Press **i** remove the menus from the TV screen.



Setting the clock
Manually

The clock in your VCR controls time and date settings for your VCR.

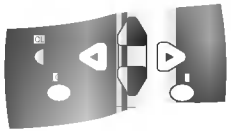


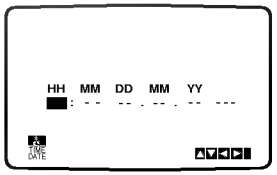
1

Press **i**.

Press ◄ or ► to select **TIME DATE.**

Press **OK**.



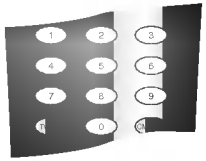


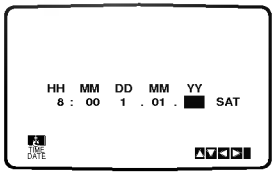
2

Use the **numbered buttons** on the remote control to alter the **HOURS, MINUTES, DAY, MONTH** and **YEAR.**

Please note your VCR uses a 24 hour clock. e.g. 1pm will be displayed as 13:00.

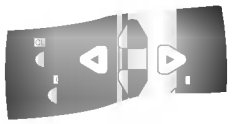
The day of the week will appear automatically when you enter the year.

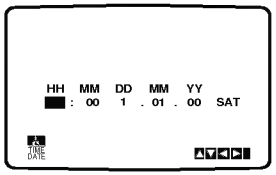




3

If you make a mistake press ◄ or ► and enter the correct details.

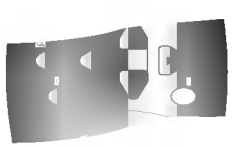




4

Press **i**.

Your new clock settings are stored.



Timer recording

Using On Screen Display

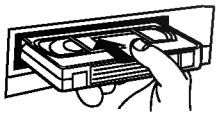


You may set up to seven timer record events within one month of the current date **PLEASE NOTE! before setting the timer make sure that you have set the VCR clock correctly and you know which stations you have tuned TV stations on your VCR.**

1

Insert a video cassette with protection tab into your VCR.

The video cassette should have the window side facing up and the arrow facing away from you.

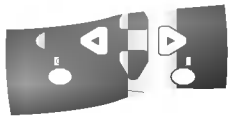


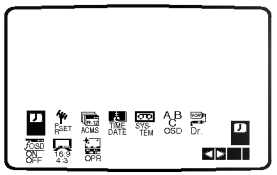
2

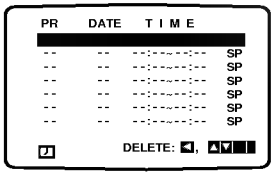
Press **i**.

Press ◄ or ► to select **REC**.

Press **OK**.

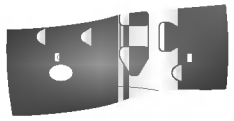




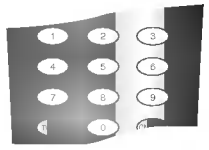


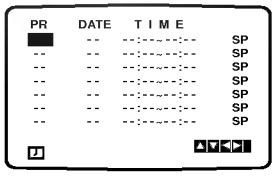
3

Press **OK** to start setting the timer record event.



Press the **numbered buttons** to enter the station that you wish to record.





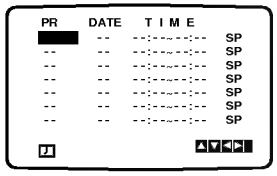
4

When selecting stations 1 - 9, press 0 first, then the channel number (for example Stations 3).

You may also select Channels by pressing ▲ or ▼. Once selected press ►.



If you wish to record from the EURO SCART socket on the back of VCR, press AV.



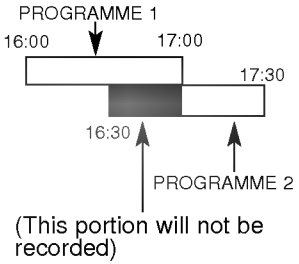
If Timer record events Overlap...

Make sure that the preset times of the timer recording events do not overlap. If they do, the earlier programme will always be given priority.

Example:
Programme 1 is programmed to start at 16:00 and end at 17:00.

Programme 2 is programmed to start at 16:30 and end at 17:30.

(In this case, Programme 1 will be recorded in its entirety, but only the last 30 minutes of Programme 2 will be recorded.)

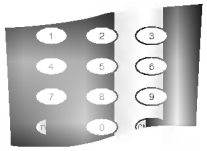


(This portion will not be recorded)

If at a later date you wish to **delete** or **change** any of the settings in timer event memory you may do so without having to enter all the timer event information again. Simply display the timer event screen. Press ▲ or ▼ to select the event that you wish to **delete** or **change**.
Press ◄ to delete the event...or
Press OK to change; then press ◄ or ► to select; Station, Date, Start and End times and LP.
Press ▲ or ▼ to enter the correct information.

5

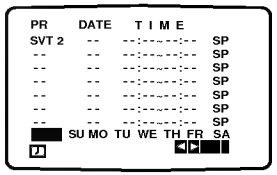
Press the **numbered buttons** to enter the date of the programme.



If you press **OK** before entering the date you may select one of the following automated recording features. Press ◄ or ► to select, then press **OK** to confirm.

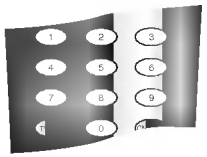
DLY To record every day (except Saturday and Sunday) at the same time.

Weekly To record at the same time every week.

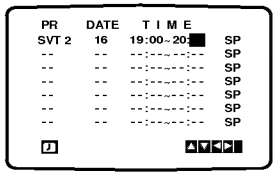


6

Press the **numbered buttons** to enter the recording start and end times of the programme that you wish to record.

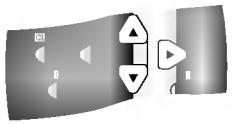


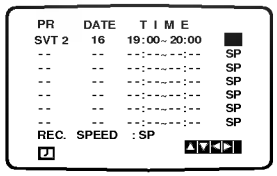
Please note your VCR uses a 24 hour clock. e.g. 1pm will be displayed as 13:00. You may also select the the start and end times by pressing ▲ or ▼.



7

Press ► and press ▲ or ▼ if you wish to record in Long Play.





8

Check that the timer event details are correct.

Press **i** twice.

If **PLEASE CHECK** is displayed, you have entered incorrect and will need to re-enter the data.

Press **POWER** to switch your VCR Standby.



TIMER indicator will light in the video recorder's display while your VCR waits to make the recording.

Energy Saving

Your VCR has an Energy Save feature which if set will place your VCR into an economic power save where the clock display will disappear. If you have programmed a recording, this feature will not work.

1

Press ⏻ on the VCR.

POWER, REWIND, PLAY, FF and **VCR** indicators will light.

2

Press ⏻ on the VCR again and your VCR will go into **Energy Save**.

All indicators will turn off.

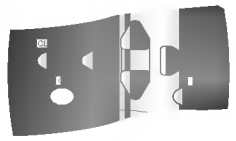
Press ⏻ to switch off **Energy Save**.

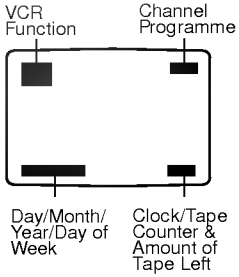
On Screen Display

You may easily display the current time or tape counter, amount of tape left, day, month, year, day of week, programme channel, and operational mode of your VCR will appear on the TV screen. If a recording is taking place these On Screen Displays will not be recorded onto the tape.

1

Press **OK/CLK/CNT** to display.



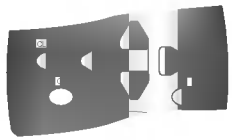


After 3 seconds the display will clear only leaving the **CLOCK** on display.

2

Press **OK/CLK/CNT** repeatedly to display the **TAPE COUNTER**.

Press **OK/CLK/CNT** again to remove all displays from the TV screen.



Tape Counter Memory Stop



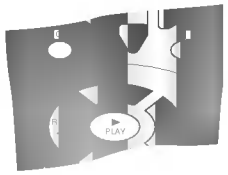
The **Digital Tape Counter** can be displayed on your VCR's display instead of the time by pressing **OK/CLK/CNT** on the remote control. The Digital Tape Counter indicates the relative positions of recordings on the tape.

1

Press **OK/CLK/CNT.**
Press **CLEAR** to set the counter to 0:00:00.

Press **PLAY** or start recording.

The tape counter will display the actual play time in hours, minutes and seconds.



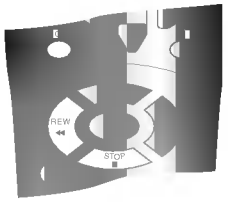
2

Press **STOP** when playback or recording is complete.

Press **REW**.

The tape will rewind and automatically stop when the counter returns to 0:00:00.

Press **OK/CLK/CNT** to return to clock.



Child Lock



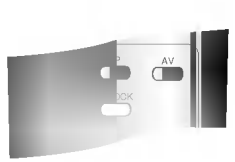
The control buttons on the front of the VCR can be switched off so that your VCR can only be operated using the remote control.

1

Press **C.LOCK**.

SAFE will appear on the TV screen.

None of the buttons on the front of your VCR will work (except **STOP/ EJECT**).



2

Press **C.LOCK** again to switch off the child lock.

SAFE will disappear on the TV screen.

Wide Screen



Your VCR can record and play back wide screen aspect ratio programmes (16:9). To record a wide screen format programme successfully the correct type of wide screen signal must be broadcast by the TV station.

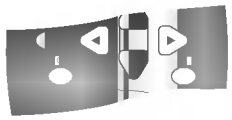
1

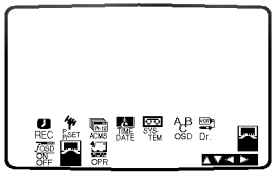
Switch on your VCR.

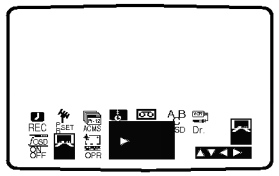
Press **i**.

Press ◄ or ► to select **16:9/4:3**.

Press **OK**.







2

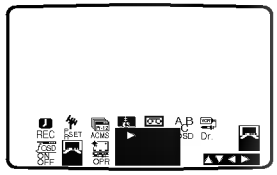
Press ▲ or ▼ repeatedly to select: **AUTO, 4:3** or **16:9**.



AUTO:
Automatically plays back Wide-Screen programmes as Wide-Screen and Normal programmes as normal.

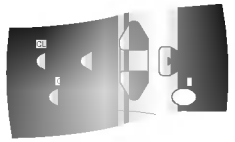
4:3
Only for playing back and recording Normal format recordings (4:3).

16:9:
Only for playing back and recording Wide-Screen format recordings (16:9).



3

Press **i** to remove the menus from the TV screen.



To enjoy Wide-Screen playback you must connect your VCR to the TV using a SCART cable.

Memory Shut-Off & Self-Diagnosis

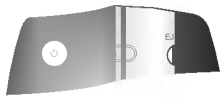


Automatic Memory Shut-Off

This feature of your VCR enables you to switch off your VCR automatically after tape rewind has been completed.

1

Press **POWER** during tape rewind.



2

The tape will rewind to the beginning and your VCR will automatically switch itself off.



Self-Diagnosis (VIDEO DOCTOR)

This feature informs you that there is a problem with your VCR. These error messages will appear on the TV screen and in your video recorder's display.

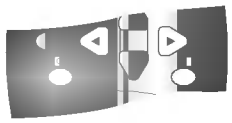
1

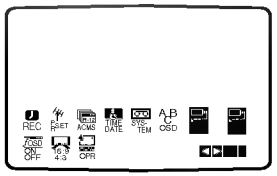
Switch on your VCR.

Press **i**.

Press ◄ or ► to select **Dr**.

Press **OK**.







2

Press ▲ or ▼ to check a problem.

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
- **2** Shows the number of timer recording.

NEXT TIMER PROGRAMME
- **PR-01 26 10:00~11:00** Shows the current status of timer recording.

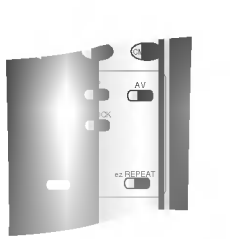
Press **i**.

ez (easy) power off

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

1

During playing back press **ez POWER OFF**.



2

Your VCR will be operated as the following ;

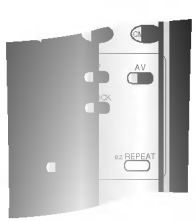
STOP
↓
REWIND
↓
EJECT
↓
POWER OFF

ez (easy) repeat

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

1

During playing back, press & hold **ez REPEAT** at the point where repeat play is to be concluded. Then, your VCR is started reverse search.



2

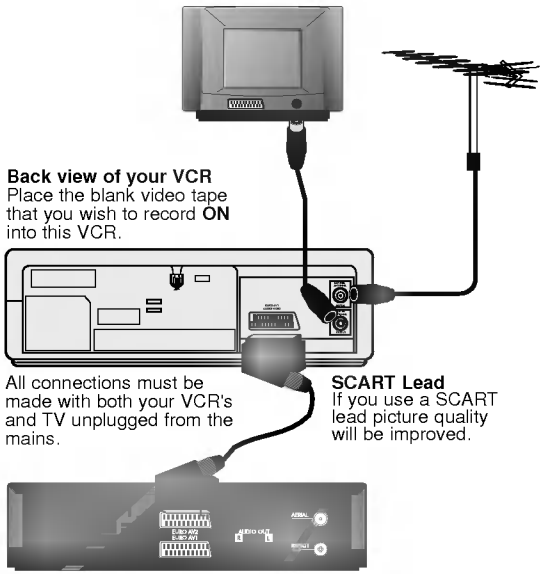
Release **ez REPEAT** at the point where repeat play is to start.

The holding section is replayed twice automatically.

Pressing **ez REPEAT** again during repeat play, return to normal play.

Tape Copying

A second VCR (for tape copying) should be connected to the SCART socket on the back of your VCR. Remember to select the appropriate audio/video mode by pressing the **AV** button on the remote control.



Back view of your VCR
Place the blank video tape that you wish to record **ON** into this VCR.

All connections must be made with both your VCR's and TV unplugged from the mains.

SCART Lead
If you use a SCART lead picture quality will be improved.

Back view of playing VCR
Place the video tape that you wish to record **FROM** into this VCR.

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 12.7 mm (0.5 inch).
Maximum recording time	4 hours (SP mode, E-240 tape)/ 8 hours (LP mode, E-240 tape).
Rewind time	Approx. 180 sec.(E-180 tape).
Dimensions	360 x 94 x 270 mm (W x H x D)
Weight	3.4 Kg.
Operating temperature	5°C - 35°C
Operating humidity	Less than 80%.
Timer	24 hours display type.

Video

Television system	CCIR standard (625 lines, 50 fields) PAL/SECAM colour signal
Recording format	PAL/MESECAM
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 kohms
Output level	AUDIO OUT (SCART type) -6.0 dBm, less than 1 kohms
Track	Mono track
Frequency response	100 Hz-10 kHz (-6/+3 dBm)
Signal to noise ratio	More than 43 dB (at SP mode)

The design and specifications are subject to change without notice.

Troubleshooting
Check List

Video Head Cleaning



Whenever a video cassette is inserted into or ejected from your VCR the video head is automatically cleaned. This should mean that additional head cleaning should not be necessary. However dirt accumulating on the head after a long period of time 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.

Symptom	Check points
No picture & no sound	Is the mains plug plugged in and switched on? Is the TV switched on? Try another channel, maybe a weak signal. Check aerial is it plugged in? Check aerial, is the lead broken or damaged? Check tuning, carry out Automatic Tuning again
No playback or poor picture	Are the TV channels tuned in properly? Have you tried using another cassette? Can you minimise the noise bars to an acceptable level with the 0 or ▲ or ▼ buttons?
TV programmes cannot be recorded	Can you get a picture on the TV? Are the aerial leads and special RF connector lead between your VCR and TV connected? Are the TV channels tuned in properly; are they tuned in order? Has the safety tab on the video cassette been removed to prevent recording? Try another station, maybe a weak signal Check aerial is it plugged into TV?

Symptom	Check points
Video cassette cannot be inserted	Is the cassette compartment empty? Are you trying to insert the cassette the right way round?
Remote control does not work	Is the mains plug plugged in and switched on? Is the VCR switched on Check the batteries in remote control.
The top of the playback picture is unstable	Is the video cassette damaged, have you tried using another one? Adjust the horizontal control on your TV. Check aerial is it plugged into VCR? Check aerial, is the lead broken or damaged? Check for local interference
Auto Play does not work	Has the safety tab been removed from the video cassette?



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