



**Video Cassette Recorder  
OWNER'S MANUAL**

**MODEL: BC493Y/BC450Y/BD470Y/  
BD270Y/BC250Y**



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

# Precautions & 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. 31). If your VCR still does not operate properly, unplug it and call your dealer.

Ensure that your VCR is placed in a position to allow a free flow of air.



*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. 29)
- Programmable 80 channel memory with Frequency synthesised tuner
- ACMS (Automatic Channel Memory System)
- 7 event/1 month programmable timer
- Built-in ShowView Programming(BC493Y)
- Recording and playback for 16:9 Wide-screen format
- Shuttle Controls (BC493Y/BC450Y/BD470Y)
- 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
- Frame advance & Slow motion functions (BC493Y/BC450Y/BD470Y)
- Still function
- Real Time Counter
- Quick Start function
- Auto Tracking System



**Welcome to LG**

Thank you for buying this LG video cassette recorder Model **BC493Y/BC450Y/BD470Y/BD270Y/BC250Y**.

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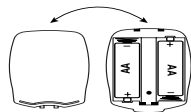
# Table of Contents

# Remote Control Location & Function

## 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.

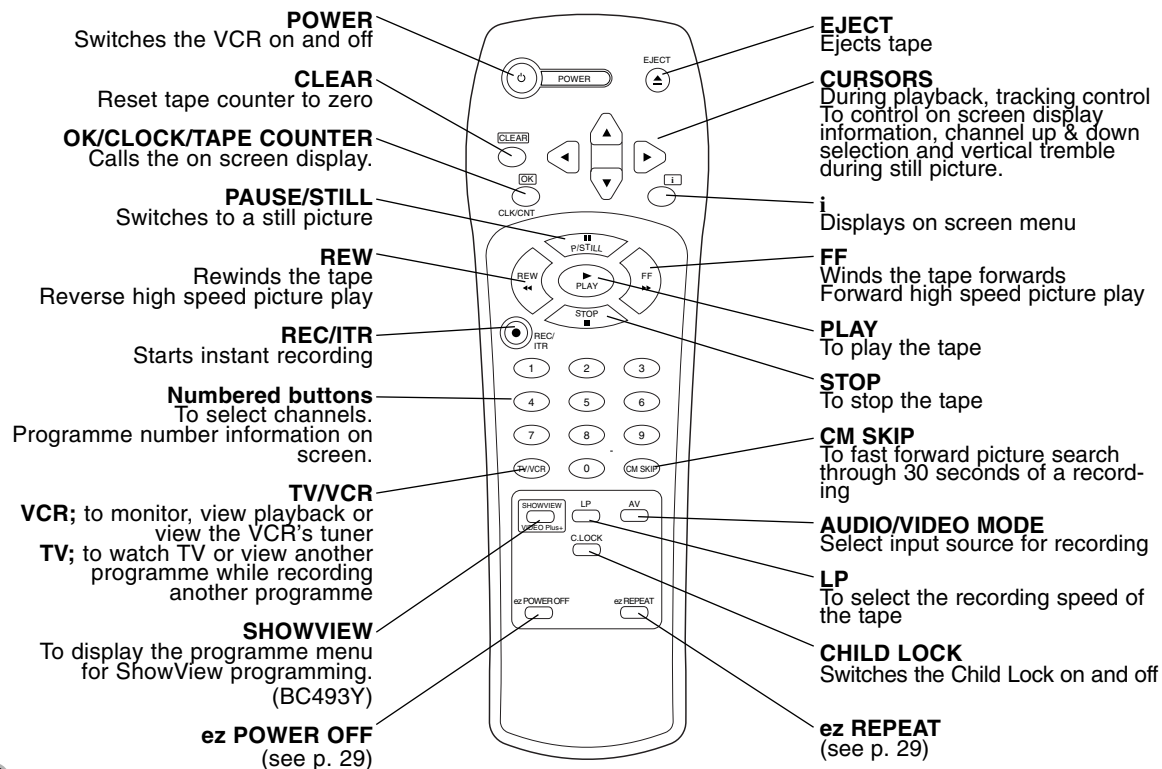


4



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.

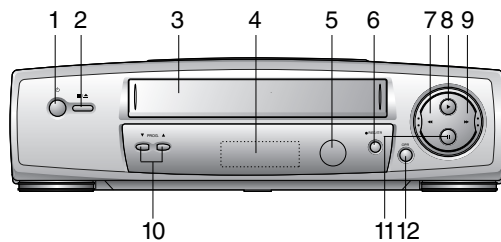


# Your VCR's Controls

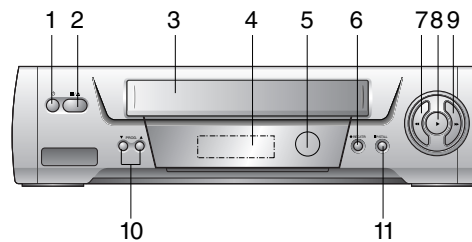


Each button on your VCR has the same function as its corresponding button on the remote control handset.

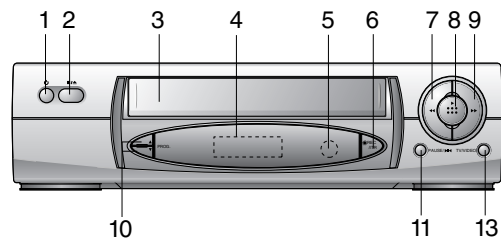
MODEL : BC493Y



MODEL : BC450Y/BC250Y



MODEL : BD470Y/BD270Y



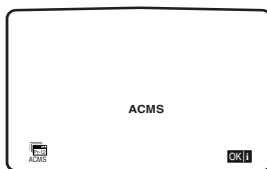
- |                             |                                 |
|-----------------------------|---------------------------------|
| 1. Power (on/off)           | 8. PLAY                         |
| 2. Stop & Tape Eject        | 9. FF                           |
| 3. Cassette Compartment     | 10. Channel Programme Selectors |
| 4. VCR Display              | 11. Pause/Still                 |
| 5. Remote Control Sensor    | 12. OPR (see p.16)              |
| 6. REC/ITR (Instant Record) | 13. TV/VCR                      |
| 7. Rewind                   |                                 |

# Connecting 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.

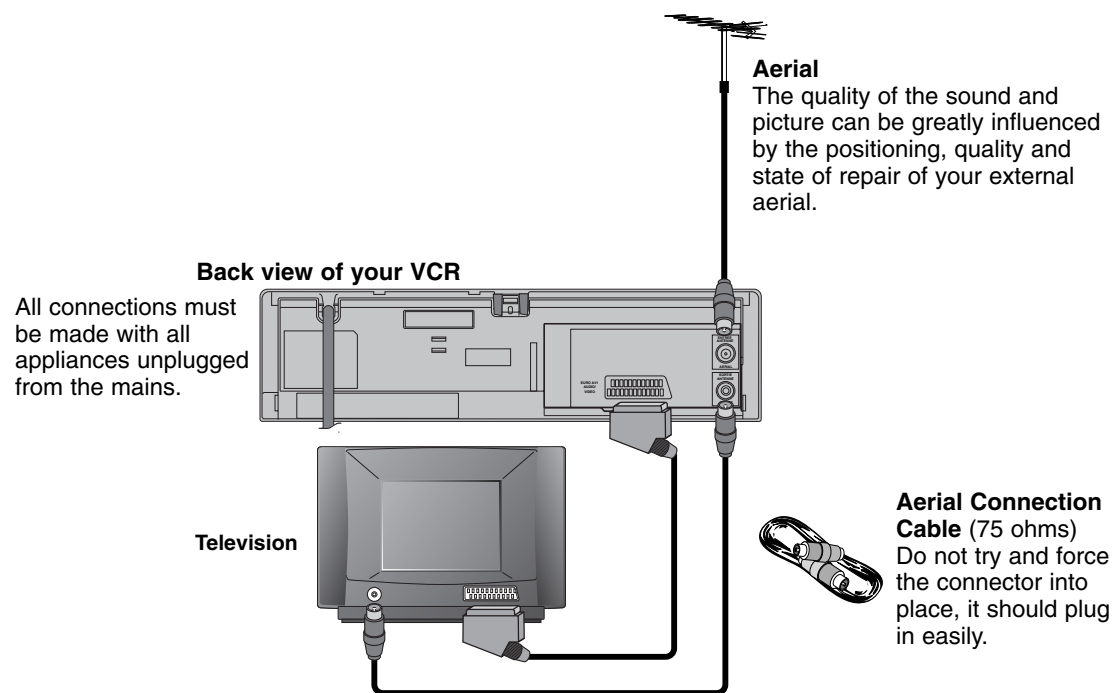
To make tuning TV stations, please follow stages 3 to 4 as shown "ACMS" (see p. 10).



6



The guidance given on this page is the most common form of connection. However please check with your manufacturer's 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. Connecting a VCR using a SCART lead is one of the best ways to achieve optimum sound and picture quality from video-tape playback.



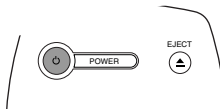


Your TV receives signals from the video recorder (VCR) like another TV station. You have to select a channel number on your TV and tune it in so that you may watch video tapes. If you connect a monitor or a TV set equipped with **SCART** socket this adjustment will not be necessary, simply select the **AV** mode on your TV.

**1**

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

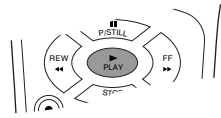
Press **POWER** to turn on your VCR.



Turn on your TV.

**2**

Insert a pre-recorded video tape into your VCR and press **PLAY** on the remote control.



Select a TV channel number on which you wish to watch video's.

Don't worry if you don't have a video-tape to play at this stage! If you switch your VCR on and continue stages **3 ~ 4**, instead of seeing video playback tune your TV until you see a bright blue screen.

**3**

Tune this channel until the video picture is sharp and the sound is clear.

If you have used a **SCART** cable you will not have to tune your TV, simply select the **AV** channel. The **AV** channel is already pre-tuned for optimum video playback on your TV.

**4**

Store this channel on your TV.

You will need to look at the TV instruction book if you do not know how to do this.

## Tuning in a Video channel On your TV

**7**

The output frequency of this video recorder (VCR) is set at UHF channel 60. If channel 60 is already used by another TV station, or if the picture is distorted, you can change the transmitter channel of your VCR. Stages 5-8 will show you how to change the output frequency of your VCR.

# Tuning in a Video channel On your TV



Make sure that you have correctly installed your VCR and successfully tuned in a dedicated video channel on your TV. If you do not tune in a dedicated video channel on your TV you will be unable to view and record video tapes!

**5**

Only carry out stages 5 ~ 8 if you cannot obtain clear video playback as described in stages 1 ~ 4.

Select a TV channel number on which you wish to watch video's.

Make sure that your VCR is in standby by pressing **POWER** on the remote control (only the clock will be displayed) (BC493Y/BC450Y/BC250Y).

Make sure that your VCR is in standby by pressing **POWER** on the remote control. (**STANDBY** indicator will light in the VCR display.) (BD470Y/BD270Y)

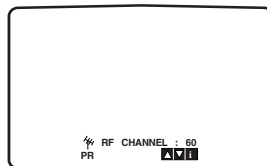
**6**

Press **PROG.** ▲ or ▼ on the front of your VCR for more than 4 seconds.

**CH60** will appear in the VCR display (BC493Y/BC450Y/BC250Y).

All indicators will light in the VCR display (BD470Y/BD270Y).

The following picture will be displayed on the TV screen.



**7**

Press **PROG.** ▲ or ▼ to select another video channel.


You may select any channel number between 22 and 68.

**8**

Select a TV channel number on which you wish to watch video's.

Tune this channel so that a bright blue screen appears.

Store this channel on your TV.

Press  when you have finished.

**8**





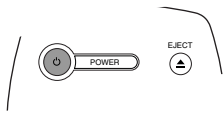
This VCR can easily be programmed by using the menus displayed on screen. The menus are controlled from the REMOTE CONTROL HANDSET.

## How to use the main menu

**1**

Turn on your TV set.

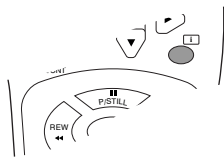
Press **POWER** to turn on your VCR.



**2**

Press **i**.

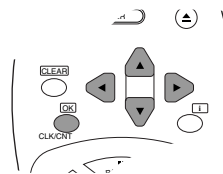
The main menu will appear on the TV screen.



**3**

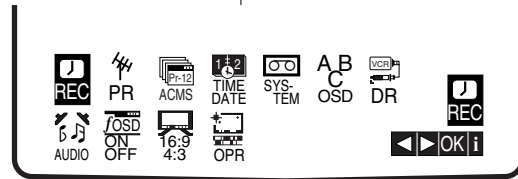
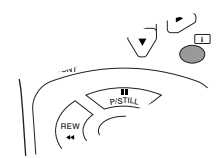
Press **◀** or **▶** to select the desired menu.

Press **OK** and press **▲** or **▼** to select the sub menu.



**4**

Press **"i"** to remove the menu.



- **REC** - Timer recording setting (see p. 23 to 24).
- **PR** - Manual tuning setting (see p. 11 to 12).
- **ACMS** - ACMS (Automatic Channel Memory System) (see p. 10).
- **TIME DATE** - Date & clock setting (see p. 18).
- **SYSTEM** - To set the Colour 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. 28).

- **RF AUDIO**- To select the channel of audio output according to your TV type ("B/G" for PAL B/G TV, "D/K" for PAL D/K TV)
- **F.OSD ON/OFF** - To switch the display of operational mode of your VCR ON or OFF (see p. 25).
- **16:9/4:3** - To select the aspect ratio of your TV (see p. 27).
- **OPR** - To improve the playback picture (see p. 16).

### LANGUAGE SELECTION

You can select the language among English, Russian, Deutsch, Francais, and Polski.

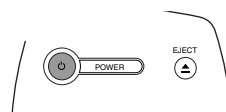
# Tuning in TV stations Automatically

**1**

Make sure that you have correctly installed your VCR and tuned a video channel on your TV as described earlier in this book.

Switch on your TV and select the channel you wish to watch videos.

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



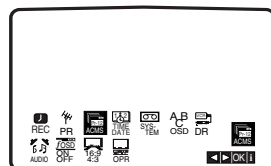
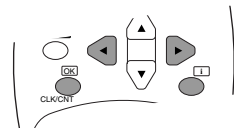
**2**

Press **i**.

The main menu will appear on the TV screen.

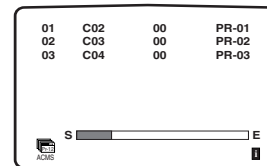
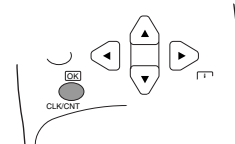
Press **◀** or **▶** to select the **ACMS**.

Press **OK**.



**3**

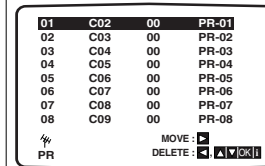
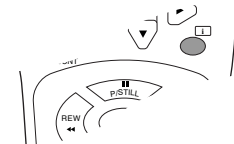
Press **OK** to start the automatic tuning process.



**4**

The TV station table will appear when tuning is complete.

Press **i** to save your settings.



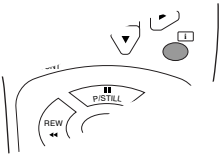


In certain areas of the country broadcast signals may be too weak for your VCR's automatic tuning process to find or assign TV stations correctly. You must tune in these weaker broadcast stations manually in order for your VCR to store them.

**1**

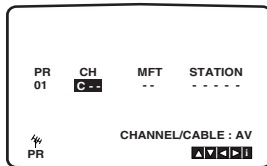
Press **i**.

The main menu will appear on the TV screen.



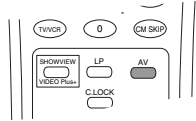
Press **◀** or **▶** to select the **PR**.

Press **OK**.



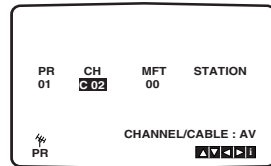
**2**

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



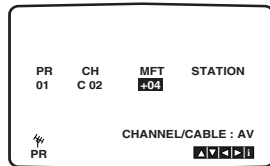
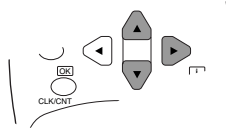
Repeatedly press **▲** or **▼** to tune in the TV station.

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.



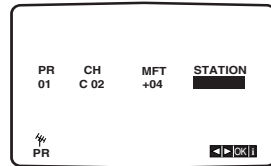
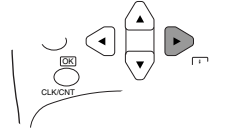
**3**

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



**4**

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

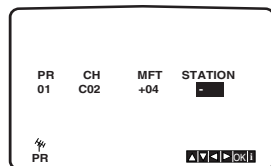
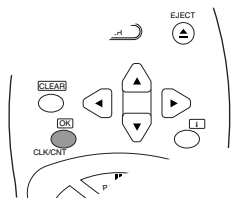


# Tuning in TV stations Manually

# Tuning in TV stations Manually

**5**

Press **OK** to select it.

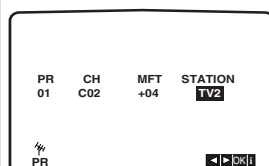
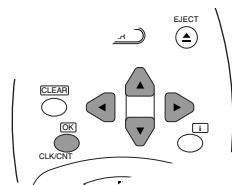


**6**

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

Press **◀** or **▶** to move back and forth between characters.

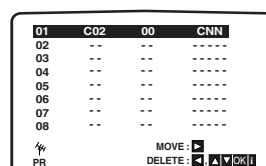
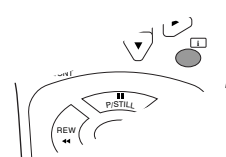
Press **OK**.



**7**

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

Press **i** again.



**8**

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

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



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.

# Changing the order of TV stations

**1**  
Press **i**.

The main menu will appear on the TV screen.

Press **◀** or **▶** to select the **PR**.

Press **OK**.

PR	CH	MFT	STATION
01	C02	00	ARD

CHANNEL/CABLE : AV

PR [Navigation icons]

**2**  
Press **i**.

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

Press **▶**.

01	C02	00	ARD
02	C03	00	ZDF
03	C04	00	WDR 3
04	C05	00	BR3
05	C06	00	HR3
06	C07	00	N 3
07	C08	00	NDR3
08	C09	00	SWF3

PR [Navigation icons]

**3**  
Press **▲** or **▼** to place the cursor line at the position where to insert the selected programme. (for example, PR 05)

01	C02	00	ARD
02	C03	00	ZDF
03	C05	00	BR3
04	C06	00	HR3
05	C04	00	WDR 3
06	C07	00	N 3
07	C08	00	NDR3
08	C09	00	SWF3

PR [Navigation icons]

**4**  
Press **OK**.

The selected programme will be moved to the new programme number.

Press **i**.

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

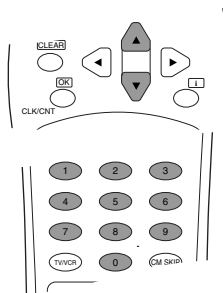
01	C02	00	ARD
02	C03	00	ZDF
03	C05	00	BR3
04	C06	00	HR3
05	C04	00	WDR 3
06	C07	00	N 3
07	C08	00	NDR3
08	C09	00	SWF3

PR [Navigation icons]

# Deleting & Selecting TV Stations

**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.

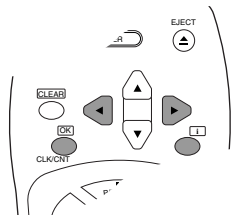
**1**

Press **i**.

The main menu will appear on the TV screen.

Press ◀ or ▶ to select the **PR**.

Press **OK**.



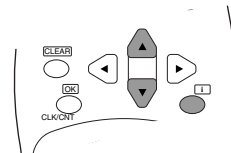
PR	CH	MFT	STATION
01	C 02	00	ARD

CHANNEL/CABLE : AV

**2**

Press **i**.

Press ▲ or ▼ to select the **programme number** you want to delete.  
 (for example, PR 01)



01	C02	00	ARD
02	C03	00	ZDF
03	C04	00	WDR3
04	C05	00	BR3
05	C06	00	HR3
06	C07	00	N 3
07	C08	00	NDR3
08	C09	00	SWF3

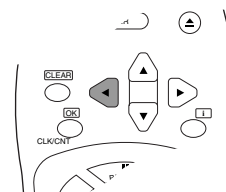
MOVE : [▲] [▼] [OK]

DELETE : [▶] [◀] [OK]

**3**

Press ◀.

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



01	C03	00	ZDF
02	C04	00	WDR3
03	C05	00	BR3
04	C06	00	HR3
05	C07	00	N 3
06	C08	00	NDR3
07	C09	00	SWF3
08	--	--	----

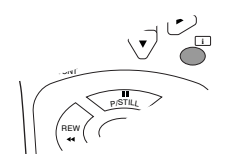
MOVE : [▶] [◀] [OK]

DELETE : [▶] [◀] [OK]

**4**

Press **i**.

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





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

### Getting a better picture

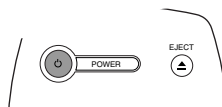
When a cassette is inserted and playback started, the automatic tracking function works to get the best possible picture automatically. If the quality of the recording is poor, repeatedly press ▼ or ▲ on the remote control to manually adjust the tracking until any distortions have been removed. Press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

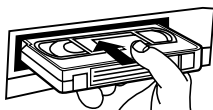
Turn on your TV and select the video channel for video playback.

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



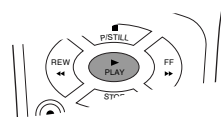
Insert the video cassette into your VCR.

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.

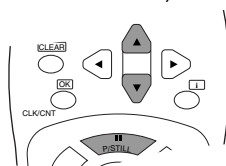
**3**

### Still picture :

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

Press **P/STILL** repeatedly to advance the still picture frame by frame (BC493Y/BD470Y/BC450Y).

Press ▲ or ▼ to reduce the vertical tremble during still picture (BC493Y/BD470Y/BC450Y).



Still pictures will have a lot of white streaks across them, this is quite normal and doesn't mean that there is anything wrong with your VCR! Tapes can be paused for up to 5 minutes. After 5 minutes your VCR will stop playing the tape to prevent damaging the tape or your VCR.

**4**

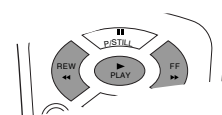
Press **PLAY** to continue playing your tape.

### Picture search:


During playing back press either **FF** or **REW** to this will enable you to rapidly wind the tape (7 times normal playback speed) and 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.



# Playing a tape

 During playback of a video cassette you can select picture sharpness by pressing **OPR** on the front of your VCR (BC493Y).

Press 1:  
To make a picture **softer**.

Press 2:  
To make it **clearer**.

Press 3:  
To switch off.

**5**  
**Slow motion playback, Shuttle (BC493Y/BD470Y/BC450Y):**  
During playing back or still picture press ◀ or ▶.

You can reach the following playback speeds.  
(-7xplay, -3xplay, -play, still, 1/19 slow, play, 2xplay, 7xplay)  
To switch off the slow motion and shuttle, press the desired function.

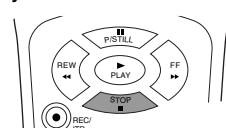
During slow motion and shuttle, the noise bars may appear on the picture according to the status of tape.

If distortions can be seen in the picture, reduce them with ▲ or ▼.

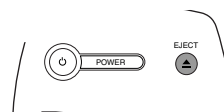


Picture search will only continue for about 3 minutes, after which your VCR will return to normal playback. During picture search, logic search, and CM Skip the sound is muted and there will be some noise streaks on the picture.

**6**  
Press **STOP** to end playback.



Press **EJECT**.

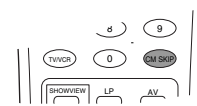


If the end of the tape is reached, your VCR will stop playback automatically, rewind, stop, eject the tape and place itself into power off.

## 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 material:

- 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 to on when playing a tape.

Press **i** to remove the menus.





Your VCR is equipped with triple colour standard, you can play back a tape in PAL B/G and SECAM D/K.

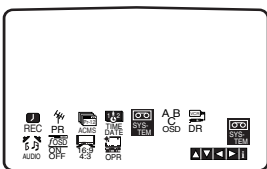
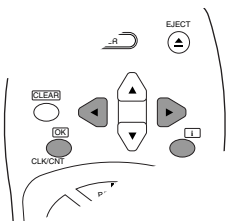
During playback your VCR detects the colour system automatically.  
If there are colour problem please select the colour system manually.

**1**

Press **i**.

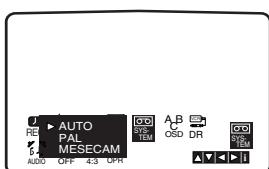
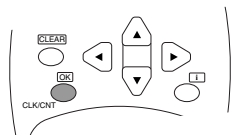
The main menu will appear on the TV screen.

Press **◀** or **▶** to select the **SYSTEM**.



**2**

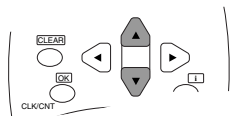
Press **OK**.



**3**

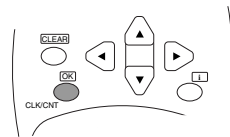
Press **▲** or **▼** to select according to the **COLOUR** system used.

**AUTO** : automatic colour selection,  
**PAL** : PAL recordings  
**MESECAM** : SECAM D/K recordings.



**4**

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



# Setting the clock Manually

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

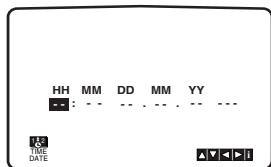
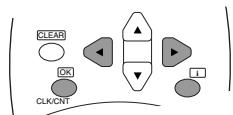


**1**

Press **i**.

Press **◀** or **▶** to select  
**TIME DATE**.

Press **OK**.



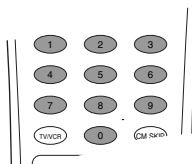
**2**

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

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

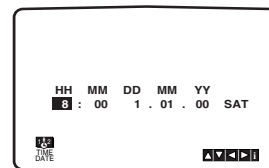
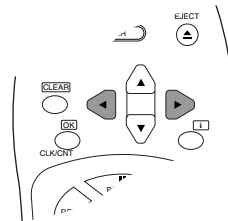
When entering singles numbers a 0 must be added first, for example 1 must be entered as 01, 2 as 02 etc.

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



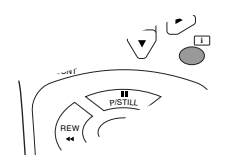
**3**

If you make a mistake press **◀** or **▶** and enter the correct details.



**4**

Press **i**.





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.

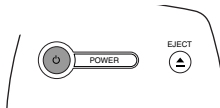
# Instant Timer Recording (ITR)

**1**

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

Turn on your TV and select the channel that you set up for video playback.

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



**2**

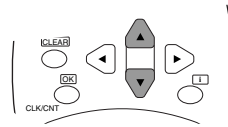
Insert a video cassette with protection tab into your VCR.

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

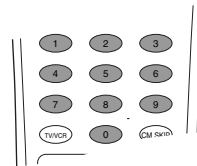


**3**

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

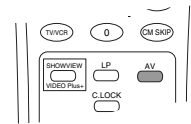


You may also directly select programme number using the **numbered buttons** on the remote control.

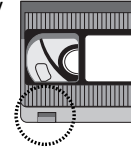


**4**

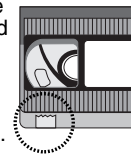
If you wish to record directly from the SCART socket press **AV**, as shown by the display (AV) on the TV screen.



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.

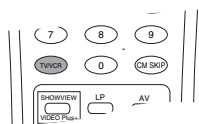


It is possible to record on a video cassette with the record protection tab removed by covering the hole with self adhesive tape.



# Instant Timer Recording(ITR)

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



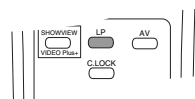
Your VCR incorporates Long Play (LP) which enables you to record up to twice the amount of time on a video cassette. For example an E-180 will record up to 180 minutes using Standard Play (SP); using LP you will be able to record up to 360 minutes. **Please note** there will be a slight loss in picture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

**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.

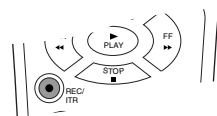


**6**

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.

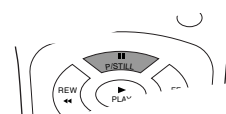


**7**

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

Press **P/STILL** again 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.



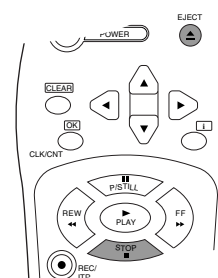
**8**

Press **STOP** to end recording.

Press **EJECT**.

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

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



# ShowView Programming (BC493Y)

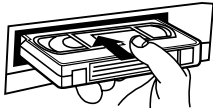


ShowView greatly simplifies entering the date, channel, start and end times of a Timer Recording by simply entering a ShowView Code. ShowView Codes are published in most TV guide magazines; they can vary one to nine numbers in length.

**1**

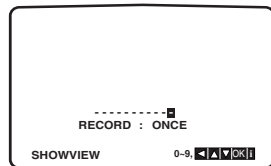
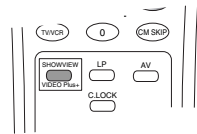
Make sure that TV channels have been tuned and stored in correct SHOWVIEW order.

Insert a video cassette with protection tab into your VCR.



**2**

Press **SHOWVIEW**.



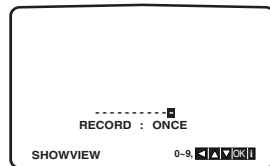
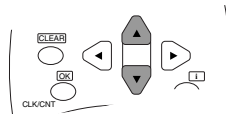
**3**

Press **▲** or **▼** to select the recording type.

**ONCE:** To record once.

**WEEKLY:** To record at the same time every week.

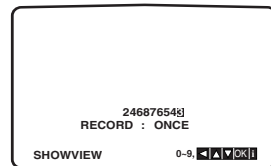
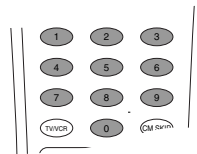
**DAILY:** To record every day (except Saturday and Sunday) at the same time.



**4**

Press the **numbered buttons** to enter the **ShowView Code** of the TV programme that you wish to record.

If you make a mistake press **◀** then enter the revised number.



# ShowView Programming (BC493Y)



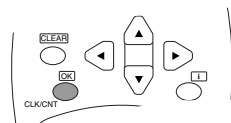
SHOWVIEW is a registered trademark of Gemstar Development Corporation.  
The SHOWVIEW System is manufactured under licence from Gemstar Development Corporation.

**5**

Press **OK**.

If **PLEASE CHECK** is displayed it means that you have entered the wrong ShowView number, entered the ShowView number incorrectly.

If “-” is displayed, you have to enter the programme number of the station, you want to record from.

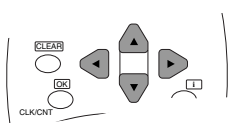


PR	DATE	TIME	SP
PR-01	12	10:11-11:55	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP

**6**

Press **◀** or **▶** to select the settings that you wish to revise. (PR, DATE, TIME and SP).

Press **▲** or **▼** to enter the correct information.



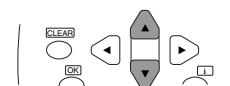
PR	DATE	TIME	SP
PR-01	12	10:11-11:55	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP

**7**

Press **▲** or **▼** if you wish to record in Long Play.

SP will produce improved picture and sound quality, however LP will provide twice as much recording time as SP.

Check that the timer event details are correct.



If you wish to record from AUDIO IN(L/R) and VIDEO IN on the front or from the EURO SCART socket on the back of VCR, press AV to select for correct display AV.

PR	DATE	TIME	SP
PR-01	12	10:11-11:55	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP

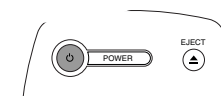
**8**

If you want to make another ShowView recording repeat stages **2 - 7**.

Press **i** twice.

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

Press **POWER** to switch your VCR power off mode.



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



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 channels you have tuned TV stations on your VCR.

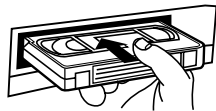
# Timer recording using On Screen Display

**1**

Make sure that TV channels have been tuned and stored.

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.

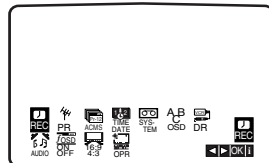
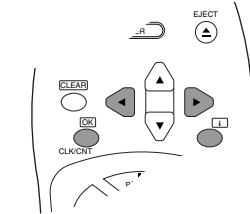


**2**

Press **i**.

Press **◀** or **▶** to select **REC**.

Press **OK**.



PR	DATE	TIME	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP

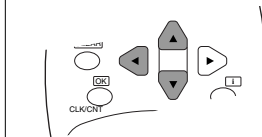
DELETE: **◀**, **▶**, **OK**

**3**

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

If all timer record events are full press **▲** or **▼** to select the event that you wish to remove and replace.

Press **◀** to remove the event.



PR	DATE	TIME	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP

**OK** **▲**, **▼**, **▶**, **◀**

**4**

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



When selecting programme numbers 1 - 9, press 0 first, then the programme number; for example PR NO. 1 as 01. You may also select programme numbers by pressing **▲** or **▼**. Once selected press **▶**.

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

PR	DATE	TIME	SP
PR-01	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP
--	--	-----	SP

**▶** **▲**, **▼**, **▶**, **◀**

**If timer record events overlap...**

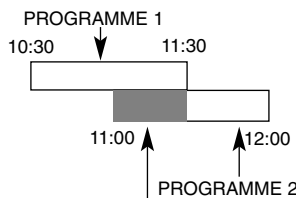
Make sure that the preset times of the timer recording events do not overlap. If they do, the earlier programme will always be given priority.

**Example:**

Programme 1 is programmed to start at 10:30 and end at 11:30.

Programme 2 is programmed to start at 11:00 and end at 12:00.

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



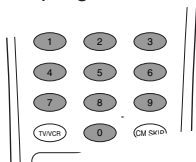
(This portion will not be recorded)

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.

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.

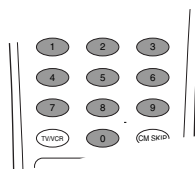
Press **◀** or **▶** to select, then press **OK** to confirm.

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

**Weekly** To record at the same time every week.

PR	DATE	TIME	SP
PR-01	26	10:00-11:00	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
<b>DLY</b>	SU MO TU WE TH FR SA		

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

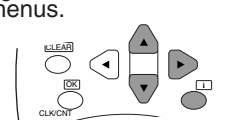


Please note your VCR uses a 24 hour clock. e.g. 1 pm will be displayed as 13:00. You may also select the the start and end times by pressing **▲** or **▼**.

PR	DATE	TIME	SP
PR-01	26	10:00-11:00	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP

**7** Press **▶** to select the recording speed. Press **▲** or **▼** if you wish to record in Long Play or Standard Play. Check that the timer event details are correct. Press **i** to save your settings.

If **PLEASE CHECK** is displayed, you have entered incorrect information and will need to re-enter the data. If you want to make other Timer recordings repeat stages **3 - 8**. Press **i** again to remove the menus.

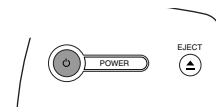


PR	DATE	TIME	SP
PR-01	26	10:00-11:00	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
--	--	----	SP
REC. SPEED :	SP		

**8** Press **POWER** to switch your VCR off.

TIMER will appear in the video recorder's display while your VCR waits to make the recording. (BC493Y/BC450Y/BC250Y)

Power indicator will light in the video recorder's display while your VCR waits to make the recording. (BD470Y/BD270Y)





# Energy Saving

# On Screen Display



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 **POWER** on the **VCR**.

The VCR and clock will appear on the video recorder's display (BC493Y/BC450Y/BC250Y).

**POWER** and **VCR** indicators will light in the video recorder's display (BD470Y/BD270Y).

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

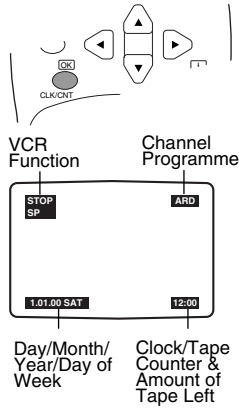
All indicators will turn off in the video recorder's display.

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



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

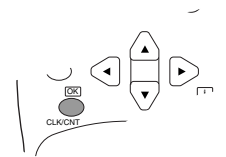
**1** Press **OK/CLK/CNT** to display.



Press **OK/CLK/CNT** repeatedly to display the tape counter and amount of tape left.

**2** After 3 seconds the display will clear only leaving the clock or tape counter and amount of tape left on the TV screen.

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



# Tape Counter Memory Stop Child Lock



The **Digital Tape Counter** can be displayed on your TV screen 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.

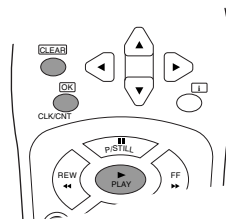
**1**

Press **OK/CLK/CNT** repeatedly until the counter is displayed on screen.

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.

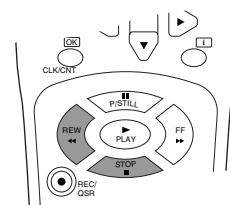


**2**

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.



**1**

Press **C.LOCK**.

 **SAFE** will appear on the TV screen.

**POWER** indicator will flicker in your video recorder's display for a few seconds. (BD470Y/BD270Y)

**SAFE** will flicker in your video recorder's display for a few seconds. (BC493Y/BC450Y/BC250Y)


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

If any buttons on the front of your VCR are pressed **POWER** indicator will flicker in your video recorder's display for a few seconds. (BD470Y/BD270Y)

If any buttons on the front of your VCR are pressed **SAFE** will flicker in your video recorder's display for a few seconds. (BC493Y/BC450Y/BC250Y)

**2**

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

 **SAFE** will disappear on the TV screen.

**POWER** indicator will flicker in your video recorder's display for a few seconds. (BD470Y/BD270Y)

**OFF** will flicker in your video recorder's display for a few seconds. (BC493Y/BC450Y/BC250Y)



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.



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.

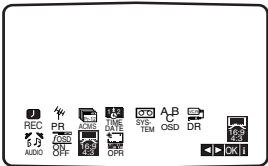
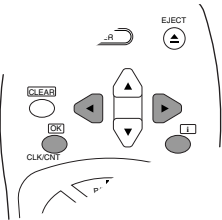
**1**

Switch on your VCR.

Press **i**.

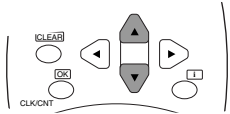
Press **◀** or **▶** to select **16:9/4:3**.

Press **OK**.



**2**

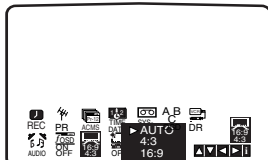
Press **▲** or **▼** repeatedly to select : **AUTO**, **4:3** or **16:9**.



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

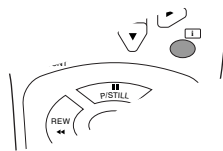
**4:3**  
Only for playing back and recording Normal format recordings (4:3).

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



**3**

Press **i** to remove the menus.



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

# Wide Screen Compatibility 16:9

# Automatic Memory Power Shut-Off

# Video Doctor (Self-Diagnosis)



**Automatic Memory Power 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.



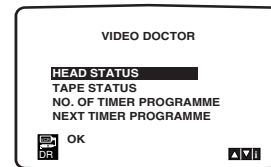
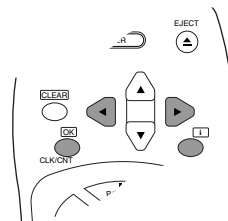
**Video Doctor (Self-Diagnosis)**  
 This feature informs you that there is a problem with your VCR. These error messages will appear on the TV screen.

**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 10:00~11:00**  
 Shows the current status of timer recording.

Press **i**.

# ez (easy) operations

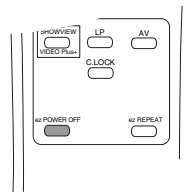
## ez (easy) power off

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

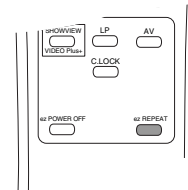
## ez (easy) repeat

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.



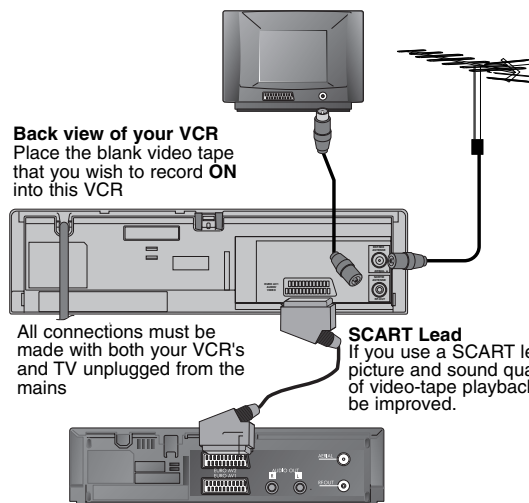
Pressing ez **REPEAT** again during repeat play, return to normal play.

# Tape Copying Specifications

The design and specifications are subject to change without notice.



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 and sound quality of video-tape playback will be improved.

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

Unauthorised recording of copyrighted TV programmes, film, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws

## General

Power	110-240V~, 50/60Hz.
Power consumption	Approx. 16 Watts (Energy saving mode: 3 Watts)
Video Head System	Double azimuth 4 heads, helical scanning. (BC493Y/BC450Y/BD470Y) Rotary 2 heads, helical scanning (BC270Y/BC250Y)
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) (BD470Y/BD270Y). Approx. 65(±10) sec. (E-180 tape) (BC493Y/BC450Y/BC250Y)
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
RF reception	PAL/SECAM (B/G, D/K)
RF OUT	PAL K/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.
RF Modulator	UHF channels 22-68 (Adjustable)

## 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 kohm
Track	Mono track
Frequency response	100 Hz-10 kHz (-6/+3 dBm)
Signal to noise ratio	More than 43 dB



### 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	Symptom	Check points
<b>No picture &amp; no sound</b>	<ul style="list-style-type: none"><li>Is the mains plug plugged in and switched on?</li><li>Is the TV switched on?</li><li>Try another channel, maybe a weak signal.</li><li>Check aerial is it plugged in? Check aerial, is the lead broken or damaged?</li><li>Have you tuned in a video channel on your TV to watch video on?</li><li>If you have used a SCART lead to connect your VCR and TV have you selected the AV channel on your TV?</li><li>Check tuning, carry out Automatic Tuning again</li></ul>	<b>Video cassette cannot be inserted</b>	<ul style="list-style-type: none"><li>Is the cassette compartment empty?</li><li>Are you trying to insert the cassette the right way round?</li></ul>
<b>No playback or poor picture</b>	<ul style="list-style-type: none"><li>Are the TV channels tuned in properly?</li><li>Have you tried using another cassette?</li><li>Can you minimise the noise bars to an acceptable level with 0, ▲ or ▼ ?</li></ul>	<b>Remote control does not work</b>	<ul style="list-style-type: none"><li>Is the mains plug plugged in and switched on?</li><li>Is the VCR switched on</li><li>Check the batteries in remote control.</li></ul>
<b>TV programmes cannot be recorded</b>	<ul style="list-style-type: none"><li>Can you get a picture on the TV?</li><li>Are the aerial leads and special RF connector lead between your VCR and TV connected?</li><li>Are the TV channels tuned in properly?</li><li>Has the safety tab on the video cassette been removed to prevent recording?</li><li>Try another station, maybe a weak signal</li><li>Check aerial is it plugged into TV?</li></ul>	<b>The top of the playback picture is unstable</b>	<ul style="list-style-type: none"><li>Is the video cassette damaged, have you tried using another one?</li><li>Adjust the horizontal control on your TV.</li><li>Check aerial is it plugged into VCR?</li><li>Check aerial, is the lead broken or damaged?</li><li>Check for local interference</li><li>Make sure that you are using a video TV channel on your TV.</li></ul>
		<b>Auto Play does not work</b>	<ul style="list-style-type: none"><li>Has the safety tab been removed from the video cassette?</li></ul>

# Troubleshooting Check List



**P/N:3834RP0055C**