

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.

# Information & features Precautions

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.

• ez (easy) operations (see p. 29)

- Programmable 80 channel memory with Frequency synthesised tuner
- Channel Memory System)
- 7 event/1 month programmable timer
- Built-in ShowView
- Recording and playback for 16:9 Wide-screen
- Shuttle Controls

Just to name a few examples of the extraordinary features:

- ACMS (Automatic
- Programming(BC493Y)
- format
- (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



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

#### Welcome to LG

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

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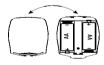
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# Remote Control Location & Function

#### To install batteries:

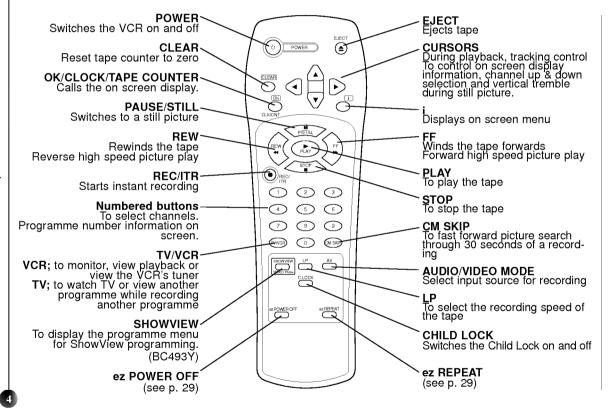
Your REMOTE CONTROL HANDSET is powered by two AA type batteries.

- 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.

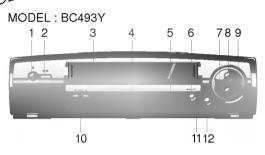


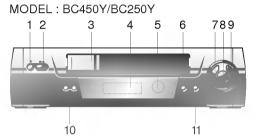
Your video recorder (VCR) is designed so that almost all of its features can be controlled from the REMOTE CONTROL HANDSET. Some features can also be controlled from the FRONT PANEL of the video recorder. The maximum operating distance that you may control your video recorder is about 7.5 metres (25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

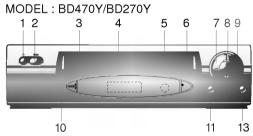
To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time. Do not use batteries of differing age or type. Always discard batteries safely.



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







- 1. Power (on/off)
- 2. Stop & Tape Eject
- 3. Cassette Compartment
- 4. VCR Display
- 5. Remote Control Sensor
- 6. REC/ITR (Instant Record)
- 7. Rewind

- 8. PLAY
- 9. FF
- 10. Channel Programme Selectors
- 11. Pause/Still
- 12. OPR (see p.16)
- 13. TV/VCR

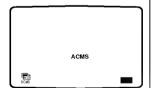
# Your VCR's Controls

## 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).



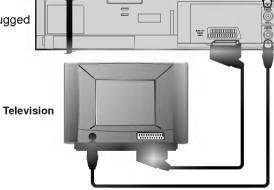
The guidance given on this page is the most common form of connection. However please check with your manufacturer's instruction books for specific information. Make sure all connections are made with both your VCR and additional appliance unplugged from the mains to avoid damaging your equipment. Connecting a VCR using a SCART lead is one of the best ways to achieve optimum sound and picture quality from video-tape playback.

#### Aerial

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

#### Back view of your VCR

All connections must be made with all appliances unplugged from the mains.





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



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.



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.



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.



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

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!



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)



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.



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

You may select any channel number between 22 and 68.



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  $\circlearrowleft$  when you have finished.

₩ RF CHANNEL : 6

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





Turn on your TV set.

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



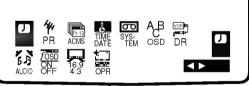


#### Press i.

The main menu will appear on the TV screen.







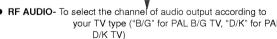


Press ◀ or ▶ to select the desired menu.

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







menu.

Press "i" to remove the

- 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).

# use the main menu

#### LANGUAGE SELECTION

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

- 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

### Iuning in TV stations Automatically

**D** 

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.



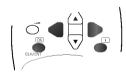
2

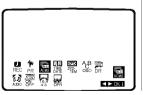
Press i.

The main menu will appear on the TV screen.

Press ◀ or ▶ to select the **ACMS**.

Press **OK**.





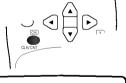
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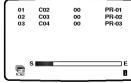
Press **OK** to start the automatic tuning process.

4

The TV station table will appear when tuning is complete.

Press **i** to save your settings.







•				
	01	C02	00	PR-01
	02	C03	00	PR-02
	03	C04	00	PR-03
	04	C05	00	PR-04
	05	C06	00	PR-05
	06	C07	00	PR-06
	07	C08	00	PR-07
	08	C09	00	PR-08
	*			VE : 🔼 TE : 🚺 . 🖊 🗖 (000 fil)
I L	PR		DELE	

10

#### In ce au Yo th

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.



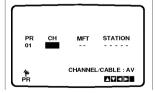
Press i.

The main menu will appear on the TV screen.



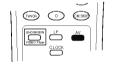
Press ◀ or ▶ to select the **PR**.

Press OK.



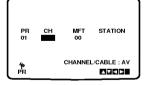


Press **AV** to select **C** (Standard stations) or **S** (Cable stations):
C02 - C71, S01 - S41.



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.





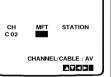
Press ► to select MFT.
Press ▲ or ▼ to adjust.





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

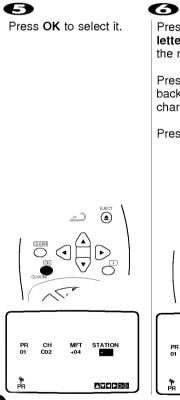


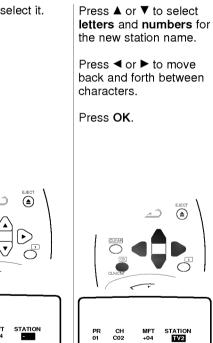


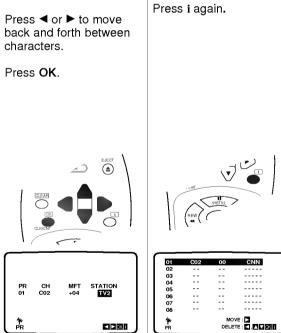


# TV stations Manually

### stations **Manually**







Press i, confirm the

station placement.

3

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.

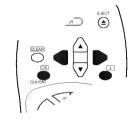


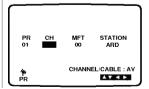
#### Press i.

The main menu will appear on the TV screen.

Press ◀ or ▶ to select the PR.

Press OK.



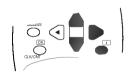




#### Press i.

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			
04	C05	00	BR3
05	C06	00	HR3
06	C07	00	N 3
07	C08	00	NDR3
08	C09	00	SWF3
%-			
PR			AVAP



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

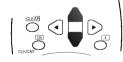
#### 4

#### 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			
06	C07	00	N 3
07	C08	00	NDR3
80	C09	00	SWF3
4.			
PR			$AV \triangleleft F$

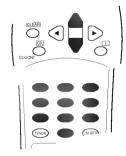


000		ADD	_
	00		
	00	BR3	
C06	00	HR3	
C07	00	N 3	
C08	00	NDR3	
C09	00	SWF3	
		A7413	
	C08	C03 00 C05 00 C06 00 C07 00 C08 00	C03 00 ZDF C05 00 BR3 C06 00 HR3 C07 00 N 3 C08 00 NDR3

# Deleting

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

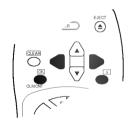


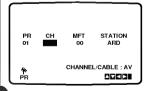
Press i.

The main menu will appear on the TV screen.

Press ◀ or ▶ to select the PR.

Press OK.

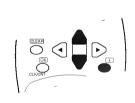


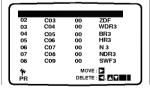




Press i.

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

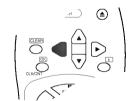






Press **◄**.

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



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
80			
*			/E : 🔼
PR		DELE	E: 🗖 , 🗖 🗸



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.



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.





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.

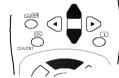


#### Still picture :

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.



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

#### 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. 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** 

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  $\blacktriangle$  or  $\blacktriangledown$ .



Press **STOP** to end playback.



Press **EJECT**.

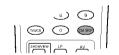


If the end of the tape is reached, your VCR will stop playback automatically, rewind, stop, eject the tape and place itself into power off.

#### 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.



#### Press i.

The main menu will appear on the TV screen.

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



#### Press OK.





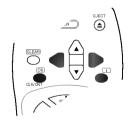
#### Press ▲ or ▼ to select according to the COLOUR system used.

**AUTO**: automatic colour selection,

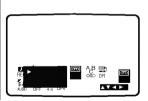
**PAL**: PAL recordings **MESECAM**: SECAM D/K recordings.



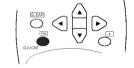
Press i to remove the menus from the TV screen.











# Setting the colour system

## Setting the clock Manually

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





Press i.

Press ◀ or ▶ to select TIME DATE.

Press OK.

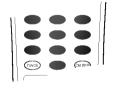


Use the **numbered** buttons on the remote control to alter or enter the HOURS, MINUTES, DAY, MONTH and YEÁR.

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.

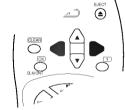


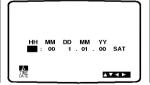


If you make a mistake press ◀ or ▶ and enter the correct details.



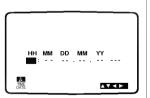
Press i.













You In vi

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.



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.





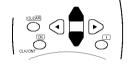
Insert a video cassette with protection tab into your VCR.

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

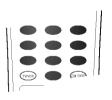




Press ▲ or ▼ to select the **programme number** you wish to record.

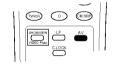


You may also directly select programme number using the **numbered buttons** on the remote control.





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.



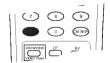
It is possible to record on a

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.



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.



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.



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.



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.









Sho Re g

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.



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

Insert a video cassette with protection tab into your VCR.





Press SHOWVIEW.



RECORD : ONCE

0~9,

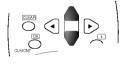


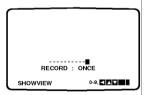
Press ▲ or ▼ to select the recording type.

**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.







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 Programming (BC493Y)

SHOWVIEW is a registered trademark of Gemstar Development Corporation.

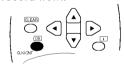
The SHOWVIEW System is manufactured under licence from Gemstar Development
Corporation.

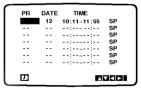
**6** 

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.







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	
PR-01	12	10:11~11:	SP
		:	SP
		::	SP
		::	SP
		:	SP
		::	SP
		::	SP
四			700
_=_	_		



Press  $\blacktriangle$  or  $\blacktriangledown$  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	
PR-01	12	10:11~11:55	
		:	SP
		::	SP
		:	SP
		::	SP
		::	SP
		:	SP
REC.	SPEE	):SP	
0			



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.



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.

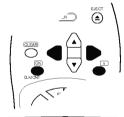




Press i.

Press ◀ or ▶ to select **REC**.

Press OK.





	PR	DATE	TIME	
			::	SP
			::	SP
			:~:	SP
			::	SP SP
			::	SP
				01
	四		DELETE: ■,  □	<b>V</b>
_	_	_		



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



If all timer record events are full press  $\blacktriangle$  or  $\blacktriangledown$  to select the event that you wish to remove and replace.

Press ◀ to remove the event.



PR	DATE	TIME	$\neg$
		:	SP
		(~)	SP
		:~:	SP
		:~:	SP
		::	SP
		:~:	SP
		::	SP
₪			



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	$\Box$
		:	SP
		:	SP
		!~!	SP
		::	SP

# Timer recording using On Screen Display

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.

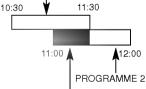
#### Example:

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.)

PROGRAMME 1



(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.



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

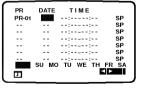


If you press **OK** before entering the date you may select one of the following automated recording features.

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.

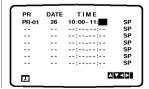




Press the **numbered buttons** to enter the recording start and end times of the programme that you wish to record.



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





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.



Í	PR	DATE	TIME	
	PR-01	26	10:00~11:00	
			:	SP
			:	SP
			:	SP
			::	SP
			:	SP
			::	SP
	REC. S	PEED : 9	SP	
	Ø			



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)



Yo

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.



#### 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).



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**.

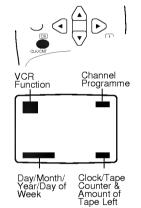


You may easily display the current time or tape counter and amount of tape left, day, month, year, day of week,

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.



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

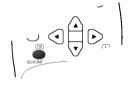


Press **OK/CLK/CNT** repeatedly to display the tape counter and amount of tape left.



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.



# Energy Saving On Screen Display

# 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.

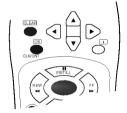


Press **OK/CLK/CNT** repeatedly until the counter is displayed on screen.

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.

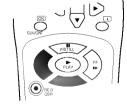




Press **STOP** when playback or recording is complete.

Press **REW**.

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





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.



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)



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)



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.

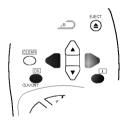


Switch on your VCR.

Press i.

Press ◀ or ▶ to select 16:9/4:3.

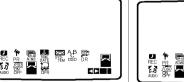
Press OK.





Only for playing back and recording Normal format recordings (4:3). 16:9:

format recordings (16:9).





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





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

4:3

Only for playing back and recording Wide-Screen





Press i to remove the menus.



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

# Power Shut-Off (Self-Diagnosis **Automatic Memory**

**Automatic Memory Power Shut-Off** 

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



Press **POWER** during tape rewind.



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.

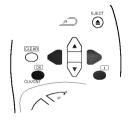


Switch on your VCR.

Press i.

Press ◀ or ▶ to select DR.

Press OK.



heads.

Press ▲ or ▼ to check a problem.

HEAD STATUS ● PLEASE CLEAN: Clean your video

TAPE STATUS ● NOT RECORDABLE: Insert a tape with its

protection tab in place

NO. OF TIMER PROGRAMME

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) power off

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



During playing back press ez POWER OFF.

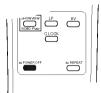


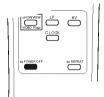
Your VCR will be operated as the following;

**STOP** 

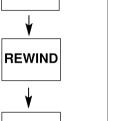
**EJECT** 

**POWER** OFF







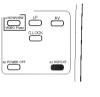




By pressing & holding ez REPEAT during playing back, the holding section

is replayed twice automatically.

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



ez (easy) repeat



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.

### operations (easy)

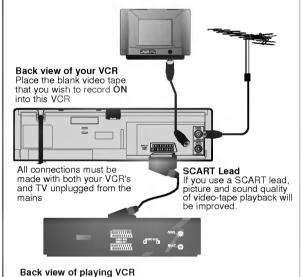
## Tape Copying Specifications



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.



Place the video tape that you wish to record

FROM into this VCR

#### General

Power 110-240V~, 50/60Hz.

Power consumption Approx. 16 Watts (Energy saving

mode: 3 Watts)

Double azimuth 4 heads, helical Video Head System scanning. (BC493Y/BC450Y/BD470Y)

Rotary 2 heads, helical scanning

(BC270Y/BC250Y)

23.39 mm/sec (SP mode)/ Tape speed 11.69 mm/sec (LP mode).

Tape format Tape width 12.7 mm (0.5 inch). Maximum recording 4 hours (SP mode, E-240 tape)/

8 hours (LP mode, E-240 tape). time Approx. 180 sec.(E-180 tape) Rewind time

(BD470Y/BD270Y).

Approx. 65(±10) sec. (E-180 tape) (BC493Y/BC450Y/BC250Y)

360 x 94 x 270 mm (W x H x D) Dimensions

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

PAL/MESECAM Recording format

RF reception PAL/SECAM (B/G, D/K)

RF OUT PAL K/G

VIDEO IN (SCART type) Input level 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

Track

Input level

AUDIO IN (SCART type) -6.0 dBm, more than 10 kohms AUDIO OUT (SCART type) Output level

-6.0 dBm, less than 1 kohm

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
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?	Video cassette cannot be inserted	Is the cassette compartment empty? Are you trying to insert the cassette the right way round?
	Have you tuned in a video channel on your TV to watch video on? If you have used a SCART lead to connect your VCR and TV have you selected the AV channel on your	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.
	TV? Check tuning, carry out Automatic Tuning again	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?
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 0, ▲ or ▼?		Check aerial, is the lead broken or damaged? Check for local interference Make sure that you are using a video TV channel on your TV.
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? 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?	Auto Play does not work	Has the safety tab been removed from the video cassette?

# Troubleshooting Check List



P/N:3834RP0055C