LG

Video Cassette Recorder
OWNER'S MANUAL

MODEL: EC490SW/EC290SW

VHS
PAL

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

energy
Money Isn't All You're Saving



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. 29). If your VCR still does not operate properly, unplug it and call your dealer.

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



Just to name a few examples of the extraordinary features:

- Talking VCR
- ez (easy) operations (see p. 26)
- Programmable 99 channel memory with Frequency synthesised tuner
- ACMS (Automatic Channel Memory System)
- 7 event/1 month programmable timer
- LP - Long Play - recording & playback
- Shuttle Controls (EC490SW)
- ICON OSD (On Screen Display)
- Super Multi System
  - PAL (B/G, D/K)/ SECAM (B/G, D/K)
  - MESECAM/NTSC 3.58/NTSC 4.43
  - NTSC Playback on PAL TV
- Logic & Picture Search
- Child Lock
- Auto Power on and Play
- Fine still, Frame advance & Fixed Slow functions (EC490SW)
- Real Time Counter
- Quick Start function
- Auto Tracking System



Welcome to LG

Thank you for buying this LG video cassette recorder Model **EC490SW/EC290SW.**

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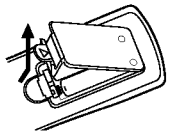
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Remote Control
Location & functions

To install batteries:

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

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





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

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

POWER
To switch the VCR on or off

VCR
To control the video (see p. 27)

TV/VCR
VCR; to monitor, view playback or view the VCR's tuner
TV; to watch TV or view another programme while recording another programme

i(MENU)
Displays on screen menu

CURSORS/PROG./VOL
To adjust tracking.
To control on screen display information, channel up & down selection and vertical tremble during picture still.
To adjust the TV volume.

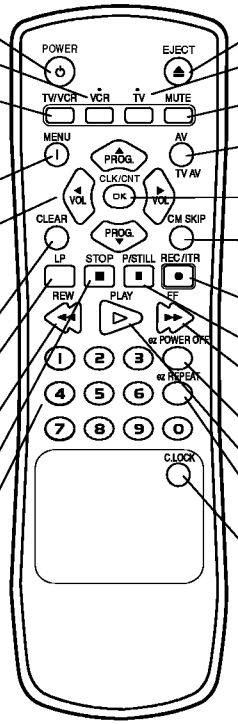
CLEAR
Reset tape counter to zero

LP
To select the recording speed of the tape

REW
Rewinds the tape.
Reverse high speed picture play.

STOP
To stop the tape

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



EJECT
Ejects tape

TV
To control the LG TV (see p. 27)

MUTE
To turn the TV sound on and off

AV/TV AV
Select input source for recording & playback

OK/CLK/CNT
Calls the on screen display.

CM SKIP
To fast forward picture search through 30 seconds of a recording

REC/ITR
Starts instant recording

P/STILL
Switches to a still picture

FF
Winds the tape forwards
Forward high speed picture play

ez POWER OFF
(see p. 26)

PLAY
To play the tape

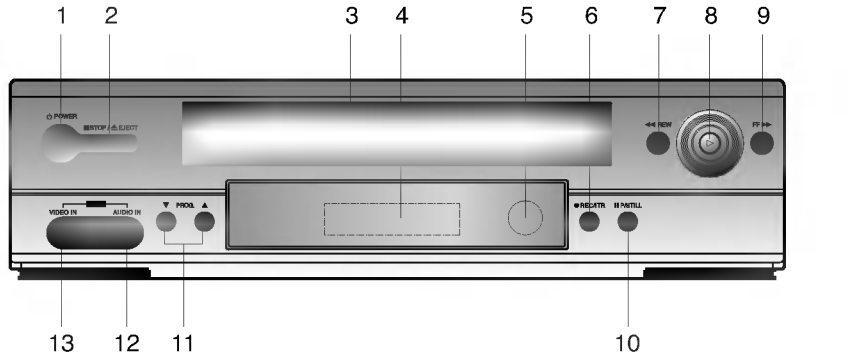
ez REPEAT
(see p. 26)

CHILD LOCK
Switches the Child Lock on and off

Your VCR's Controls



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

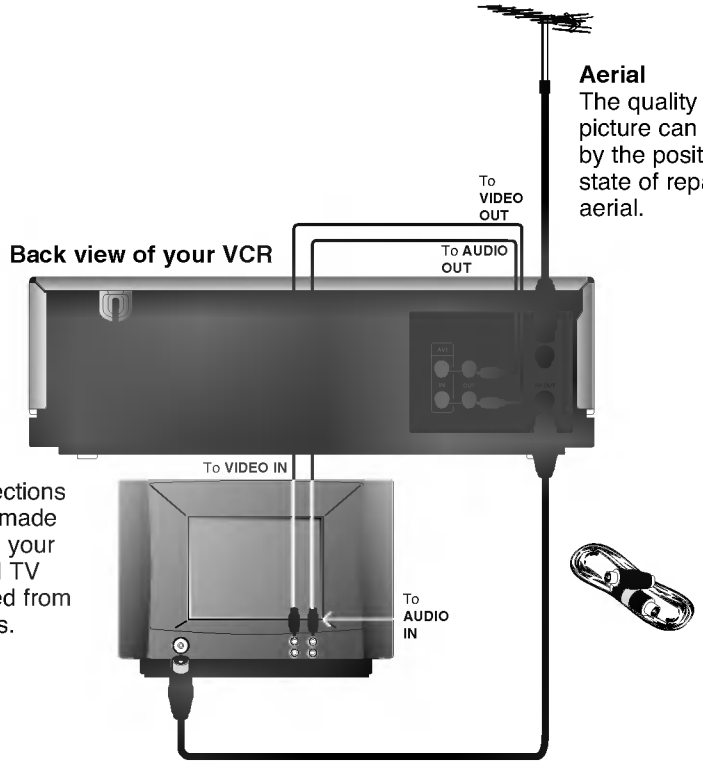


1. **Power (ON/OFF)**
2. **Stop & Tape Eject**
3. **Cassette Compartment**
4. **VCR Display**
5. **Remote Control Sensor**
6. **REC/ITR (Instant Record)**
7. **REW**
8. **PLAY**
9. **FF**
10. **Pause/Still**
11. **Channel Programme Selectors**
12. **Audio IN socket**
13. **Video IN socket**

Connecting to your TV

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 RCA 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.



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

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

Tuning in a Video channel On your TV



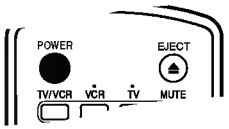
Your TV receives signals from the video recorder (VCR) like another TV station.
You have to select a channel number on your TV and tune it in so that you may watch video tapes.
If you have used **AUDIO** and **VIDEO** cables then your TV should already have a dedicated video channel built into it, usually called **AV.**

1

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

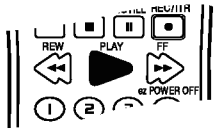
Press **POWER** to turn on your VCR.

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 the test pattern screen.

3

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

If you have used a **AUDIO** and **VIDEO** cables 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.

The output frequency of this video recorder (VCR) is set at UHF channel 68. If channel 68 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.

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.)

6

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

RF68 will appear in the VCR display.

7

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

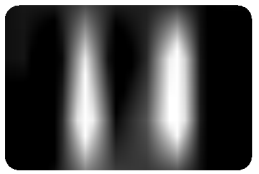
You may select any channel number between 28 and 68.

You can also set it to "OFF" if there is any interference when your TV is connected to the VCR with a RCA lead.

8

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

Tune this channel so that the test pattern screen appears.



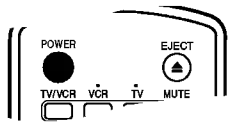
Store this channel on your TV.

Press **POWER** on the front of your VCR when you have finished.

How to Using the main menu

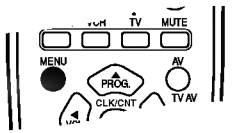
This VCR can easily be programmed by using the menus displayed on screen.
The menus are controlled from the REMOTE CONTROL HANDSET.

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



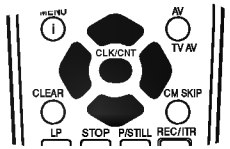
2 Press **i** button.

The main menu will appear on the TV screen.

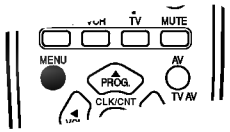


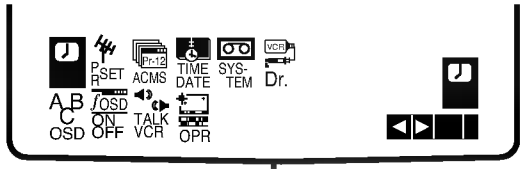
3 Press ◄ and ► to select the desired menu.

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



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





- **REC** - Timer recording setting (see p. 21 to 22).
- **PR SET** - 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 TV System (see p. 17).
- **Dr.** - To check a problem with your VCR (see p. 25).

- **ABC OSD** - To change the language setting for OSD (see right).
- **F.OSD ON/OFF** - To display the operational mode of your VCR (see p. 23).
- **TALK VCR** - A voice tells you how to use the features in the menus if TALK VCR is ON (English only).
- **OPR** - To improve the playback picture (see p. 16).

(Please note you may only see OPR when playing a tape.)

LANGUAGE SELECTION
You can select the language among English, Russian, Deutsch, Français and Polski.

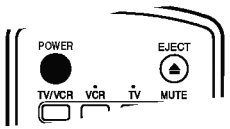
Tuning in TV stations Automatically



If the TV broadcast signal is weak your VCR may not detect the necessary information and will be and to store them correctly. To overcome this problem please turn to the **MANUAL TUNING** section on page 11 to 12.

1

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



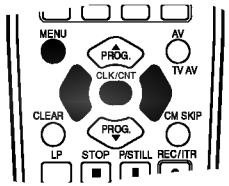
2

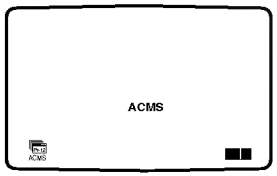
Press **i.**

The main menu will appear on the TV screen.

Press ◄ or ► to select the **ACMS**.

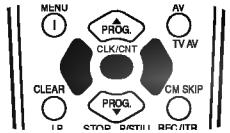
Press **OK**.

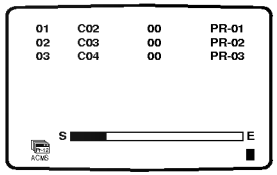




3

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

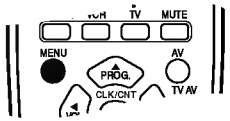


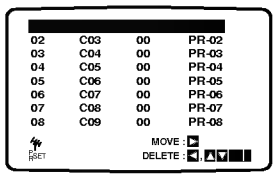


4

The TV station table will appear when tuning is complete.

Press **i** to save your settings.





Tuning in
TV stations Manually



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

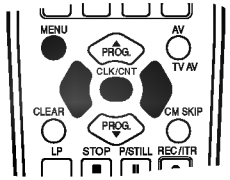
1

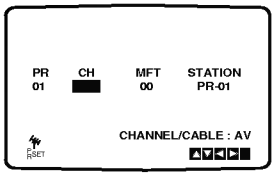
Press **i**.

The main menu will appear on the TV screen.

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

Press **OK**.





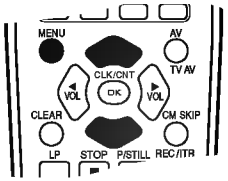
2

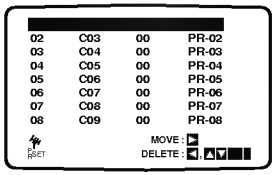
Press **i**.

TV station table will appear.

Press ▲ or ▼ to select the programme number you want to tune. (for example, PR 09)

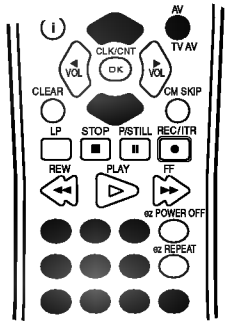
Press **OK**.





3

Press **AV** to select **C** (Standard stations) or **S** (Cable stations):
C00 - C70, S01 - S41.

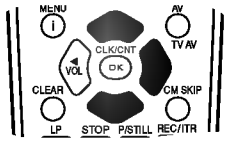


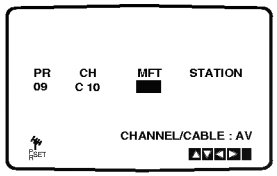
Enter the channel number of station that you want to tune with the **numbered buttons** or use ▲ or ▼ to find the required station.

4

Searching will stop when it locates a station.

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



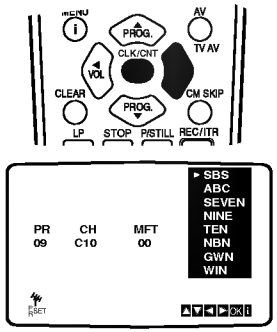


5

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

Press **OK**.

The TV station name list will appear.

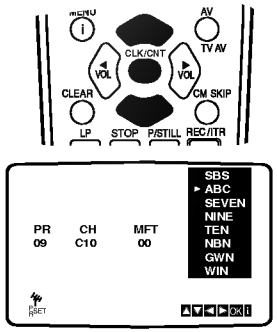


6

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

Press **OK** to select it.





7

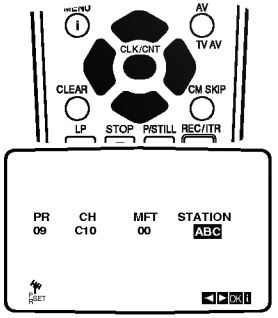
You can change a TV station name manually rather than using the “standard” names.

Press ▶.

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

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

Press **OK**.



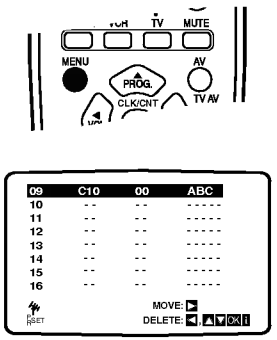
8

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

Press **i** again.

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

If you wish to manually tune other stations repeat stages **1 - 8**.



Changing the order of TV stations



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

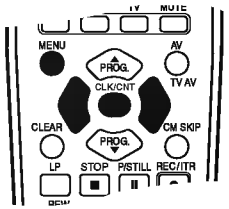
1

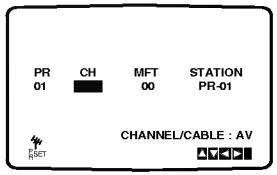
Press **i**.

The main menu will appear on the TV screen.

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

Press **OK**.



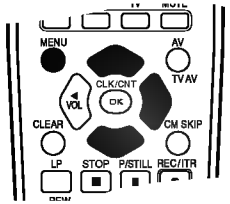


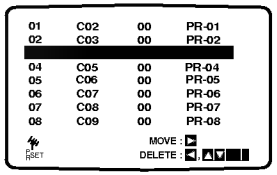
2

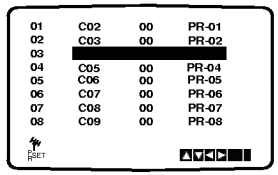
Press **i**.

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

Press ►.

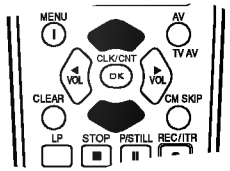


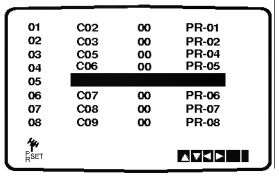




3

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



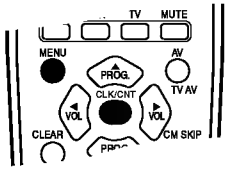


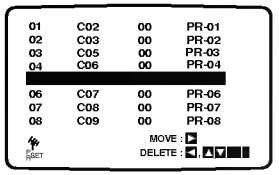
4

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

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

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

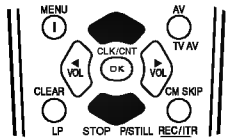




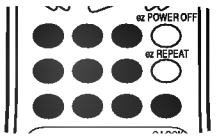
Deleting & Selecting TV Stations

How to selecting Stored TV stations:

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



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



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

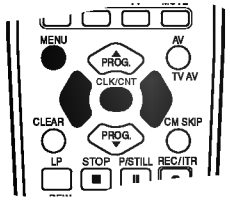
1

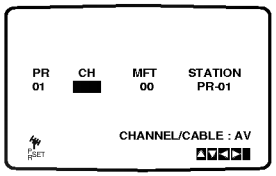
Press **i**.

The main menu will appear on the TV screen.

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

Press **OK**.

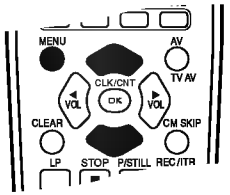


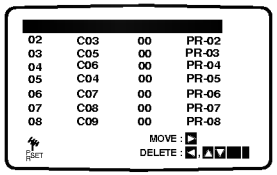


2

Press **i**.

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



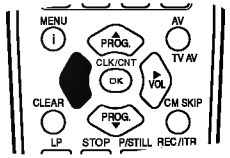


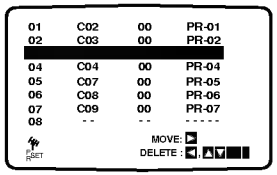
3

Press ◄.

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

The following stations are resorted automatically.

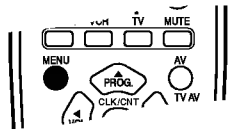




4

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

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



Playing a tape



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

Getting a better picture

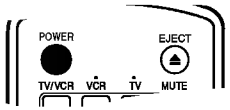
When a cassette is inserted and playback started, the automatic tracking function works to get the best possible picture automatically. If the quality of the recording is poor, repeatedly press ▼ or ▲ on the remote control to manually adjust the tracking until any distortions have been removed.

1

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

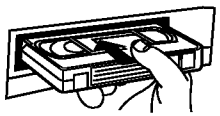
Turn on your TV.

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



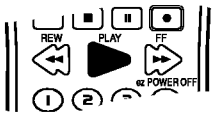
Insert the video cassette into your VCR.

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



2

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



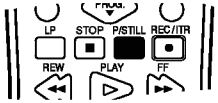
If you load a video cassette which has had its record protection tab removed playback of the cassette will start automatically.

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

3

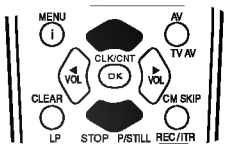
Press **P/STILL** to still a picture.

Press **P/STILL** repeatedly to advance the tape frame by frame (EC490SW).



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

Still picture quality can be improved slightly by pressing ▲ or ▼ (EC490SW).

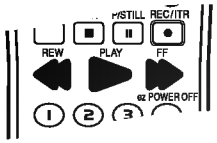


4

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

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

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



Playing a tape



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

5

Slow motion playback, Shuttle (EC490SW):

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)

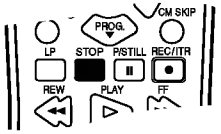
To switch off the slow motion and shuttle, press the desired function.

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

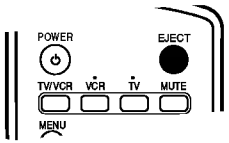
If distortions can be seen in the picture, reduce them with ▲ or ▼.

6

Press **STOP** to end playback.



Press **EJECT**.

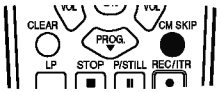


If the end of the tape is reached, your VCR will stop playback automatically, rewind, stop, eject the tape and place itself into power off mode.

CM (Commercial Message) Skip:

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

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



Repeatedly press **CM SKIP** to skip:

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

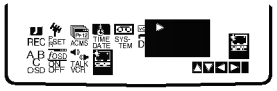
OPR (Optimum Picture Response):

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

Press **i**.

Press ◄ or ► to select **OPR**.

Press **OK**.



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

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

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

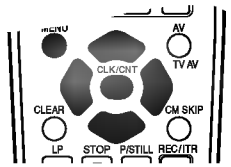
Setting the colour system

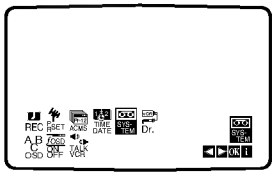
Press **i.**
The main menu will appear on the TV screen.

Press ◄ or ► to select the **SYSTEM** and press **OK**.

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

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





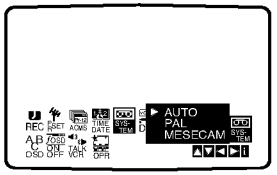
PAL settings

To record or play

AUTO:
Allows PAL or MESECAM signals to be distinguished automatically.

PAL:
Use when receiving PAL signals or use when playing back a tape recorded in PAL system.

MESECAM:
Use when receiving MESECAM signals or use when playing back a tape recorded in MESECAM system.



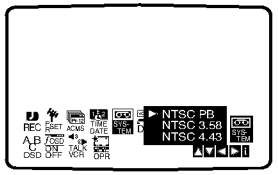
NTSC settings

During playback:

NTSC PB:
Use when playing back a tape recorded in the NTSC system on PAL TV.

NTSC 3.58:
Use when playing back a tape recorded in the NTSC system in 3.58 mode.

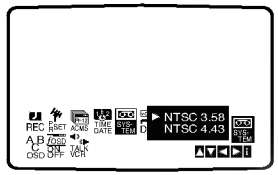
NTSC 4.43:
Use when playing back a tape recorded in the NTSC system in 4.43 mode.



Set NTSC to record (Line Recording)

NTSC 3.58: Use when recording NTSC 3.58 signals.

NTSC 4.43: Use when recording NTSC 4.43 signals.



Setting the clock
Manually



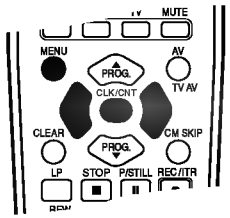
The clock in your VCR controls time and date settings for your VCR.

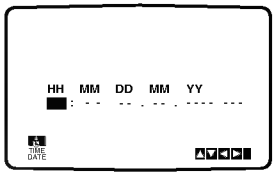
1

Press **i**.

Press ◄ or ► to select **TIME DATE.**

Press **OK**.



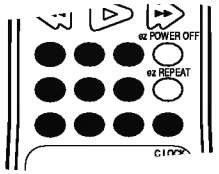


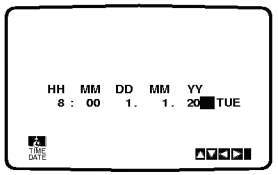
2

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

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

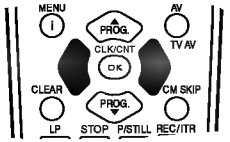
The day of the week will appear automatically when you enter the year.

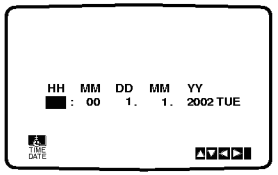




3

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

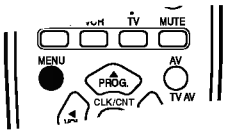




4

Press **i**.

Your new clock settings are stored and will appear on your video recorder's display.



Instant Timer Recording (ITR)

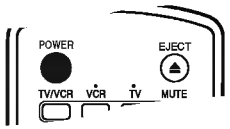


Your VCR allows you to make recordings using a variety of simple methods:
Instant Timer Recording (ITR) start recording immediately for a set period of time or until the video cassette runs out.

1

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

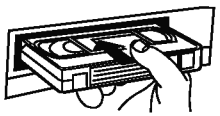
Press **POWER** to turn on your VCR.



2

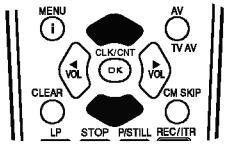
Insert a video cassette with protection tab into your VCR.

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

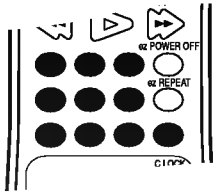


3

Press PROG. ▲ 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

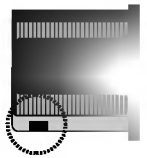
If you wish to record external video from a sky decoder or satellite receiver using the VIDEO IN and AUDIO IN set the pre-set number to “AV1” or “AV2” by pressing the “AV” button.



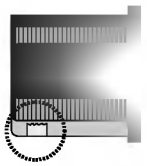
AV 1 Sound and Picture recording using the VIDEO IN and AUDIO IN on the back of your VCR.

AV 2 Sound and Picture recording using the VIDEO IN and AUDIO IN on the front of your VCR.

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



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

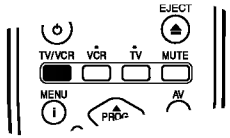




Your VCR incorporates Long Play (LP) which enables you to record up to twice the amount of time on a video cassette. For example an E-180 will record up to 180 minutes using Standard Play (SP); using LP you will be able to record up to 360 minutes. **Please note** there will be a slight loss in picture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



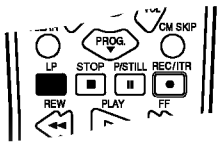
Remember you can record one programme while watching another by starting your instant recording, press **TV/VCR** to select TV mode and then selecting a different channel on your **TV**.



5

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

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

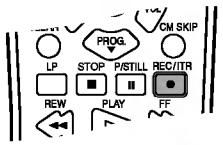


6

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

RECORD will appear on the TV screen.

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

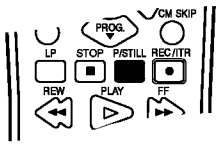


7

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

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

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



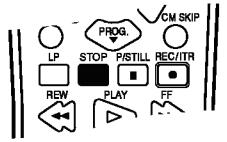
8

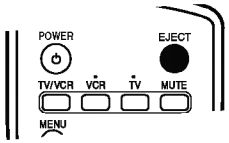
Press **STOP** to end recording.

Press **EJECT**.

EJECT will appear on the TV screen 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.





Timer recording

Using On Screen Display

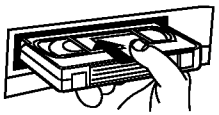


You may set up to seven timer record events within one month of the current date **PLEASE NOTE! before setting the timer make sure that you have set the VCR clock correctly and you know which stations you have tuned TV stations on your VCR.**

1

Insert a video cassette with protection tab into your VCR.

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

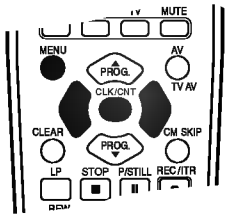


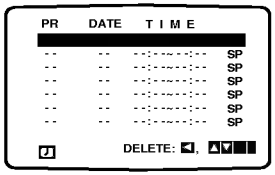
2

Press **i**.

Press ◄ or ► to select **REC**.

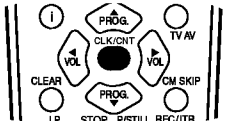
Press **OK**.



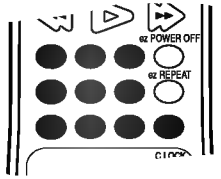


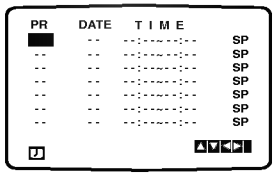
3

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



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

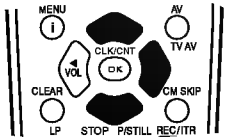




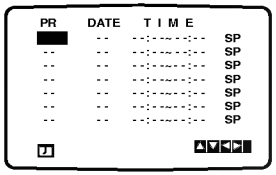
4

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

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



If you wish to record external video from a sky decoder or satellite receiver using the VIDEO IN and AUDIO IN set the pre-set number to “AV1” or “AV2” by pressing the “AV” button on the remote control.





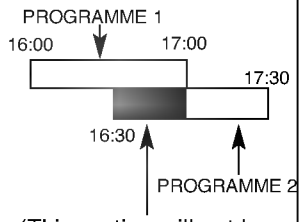
If Timer record events Overlap...

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

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

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

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



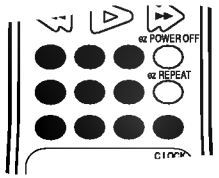
(This portion will not be recorded.)



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

5

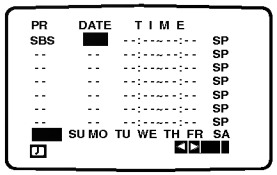
Press the **numbered buttons** to enter the date of the programme.



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

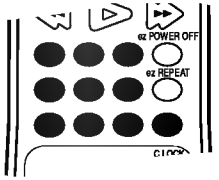
DLY To record every day (except Saturday and Sunday) at the same time.

Weekly To record at the same time every week.

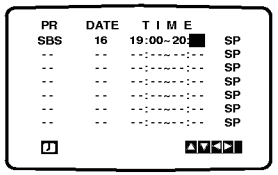


6

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



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

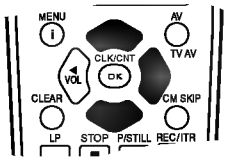


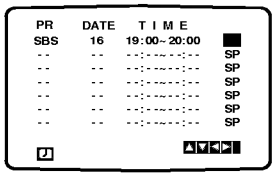
7

Press ► to select the recording speed.

Press ▲ or ▼ to select the desired tape speed (SP, IP, or LP).

IP mode determines how much tape is left and switches speed from SP to LP, if necessary, to complete recording the program.





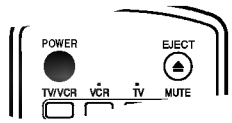
8

Check that the timer event details are correct.

Press **i** twice.

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

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



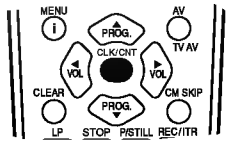
TIMER will appear in the video recorder's display while your VCR waits to make the recording.

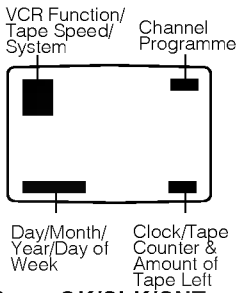
On Screen Display

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

1

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

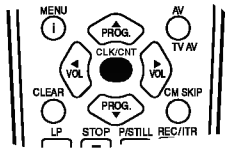




Press **OK/CLK/CNT** repeatedly to cycle through the display options. The tape counter and amount of tape left will appear if there is a tape loaded.

2

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



If you have set the OSD ON/OFF to OFF in the main menu, function OSD(On Screen Display) will not be displayed.

Tape Counter Memory Stop

Child Lock



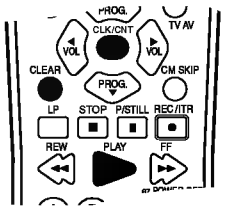
The **Digital Tape Counter** can be displayed on your TV screen instead of the time by pressing **OK/CLK/CNT** on the remote control. The Digital Tape Counter indicates the relative positions of recordings on the tape.

1

Press **OK/CLK/CNT.**
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.

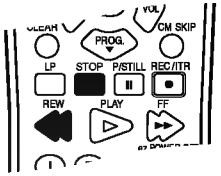


2

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.





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

1

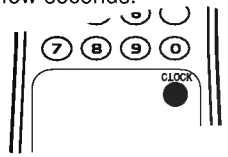
Press **C.LOCK**.

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

SAFE will appear in your video recorder's display for a few seconds.

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

If any buttons on the front of your VCR are pressed **SAFE** will appear in your video recorder's display and on the TV screen for a few seconds.



2

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

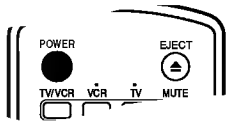
OFF will appear in your video recorder's display for a few seconds.

Automatic Memory Power Shut-Off

Automatic Memory Shut-Off

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

1 Press **POWER** during tape rewind.



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

Self-Diagnosis (VIDEO DOCTOR)

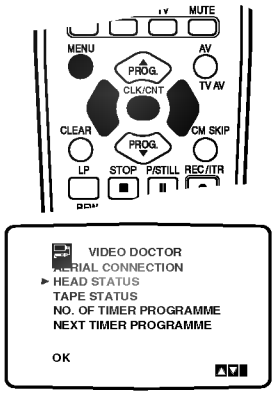
This feature informs you that there is a problem with your VCR. These error messages will appear on the TV screen and in your video recorder's display.

1 Switch on your VCR.

Press **i**.

Press ◄ or ► to select **Dr**.

Press **OK**.



2 Press ▲ or ▼ to check a problem.

HEAD STATUS
- **PLEASE CLEAN:** Clean your video heads.

TAPE STATUS
- **NOT RECORDABLE:** Insert a tape with its protection tab in place

NO. OF TIMER PROGRAMME
- **2** Shows the number of timer recording.

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

Press **i**.

Video Doctor (Self-Diagnosis)

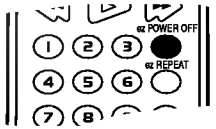
ez (easy) operations

ez (easy) power off : The sequence of "Stop → Rewind → Eject → Power Off " is operated automatically by pressing **ez POWER OFF**.

ez (easy) repeat : By pressing & holding **ez REPEAT** during play back, the holding section is replayed twice automatically.

ez (easy) power off

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

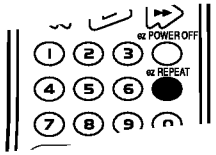


Your VCR will be operated as the following ;

STOP
↓
REWIND
↓
EJECT
↓
POWER OFF

ez (easy) repeat

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



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, will return to normal play.

ez (easy) operation

If you press **PLAY, REW, EJECT** or **REC/ITR** button when the power of this unit is off and a tape is inserted. The power turns on automatically and then the appropriate operation will work as below.

Press	Operation
PLAY	Power On → Play back the tape
FF	Power On → Fast-forward the tape
REW	Power On → Rewind the tape
EJECT	Eject the tape → Power Off
REC/ITR	Power On → Enter pause record mode If a cassette with no safety tab is loaded, the cassette will be ejected automatically.

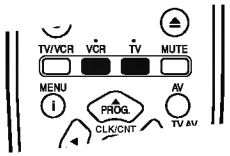
Controlling the TV

Your remote control is capable of operating your VCR as well as limited functions of LG TV. Follow the instructions below to operate for your LG TV.

1

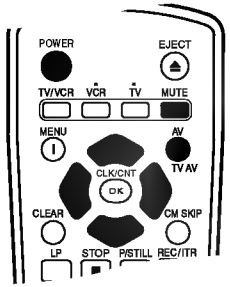
Before using the remote control, press the **VCR** or **TV** button to select the device to be operated.

To switch the remote control mode (to operate a different device), be sure to press the **VCR** or **TV** button first.



2

The **POWER**, **PROG.(▲/▼)**, **VOL(◀/▶)**, **MUTE** and **TV AV** buttons on remote control are activated for controlling LG TV.



3

Setting Remote Control Codes for LG TV

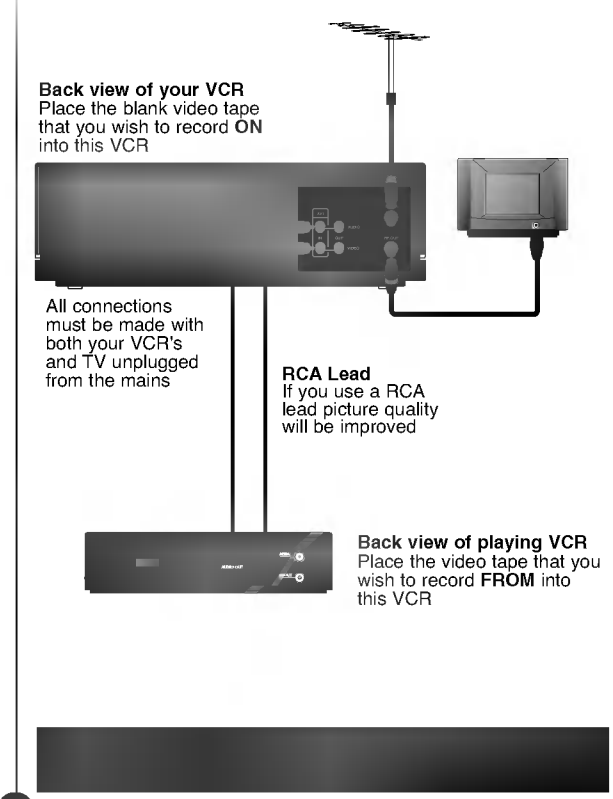
- This remote control supports two remote control codes for LG TV: Code 1 and Code 2.
- When the unit is shipped from the factory, the remote control is set to Code 1.
  If your LG TV is not operated, set the remote control to Code 2.
- To set the remote control to Code 2, hold down both the **TV** button and **"2"** number button on the remote control. (If the batteries in the remote control are replaced while the remote control is set to Code 2, the setting will revert Code 1.)
- To set the remote control back to Code 1, hold down both the **TV** button and **"1"** number button on the remote control.

If the remote control does not operate your particular TV, try one of the other code or use the remote control originally supplied with the LG TV.

Due to the variety of codes used by manufacturer, OUR COMPANY cannot guarantee that the remote control will operate every model of the LG TV.

Tape Copying

A second VCR (for tape copying) should be connected to the AUDIO IN and VIDEO IN terminals on the front of your VCR or from the back of your VCR. Remember to select the appropriate audio/video mode by pressing the **AV** button on the remote control.



The design and specifications are subject to change without notice.

Specifications

General

Power	110-240V~, 50/60Hz.
Power consumption	Approx. 12 Watts (Energy saving mode: 3 Watts)
Video Head System	Double azimuth 4 heads, helical scanning (EC490SW). Rotary 2 heads, helical scanning (EC290SW).
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. 65(±10) sec.(E-180 tape).
Dimensions	360 x 94.5 x 230 mm (W x H x D)
Weight	3.2 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 (B/G, D/K)/SECAM (B/G, D/K) colour signal
Recording format	PAL/MESECAM/NTSC 3.58/ NTSC 4.43
RF Reception	PAL B/G, SECAM B/G
RF Output	PAL G
Input level	VIDEO IN (RCA type) 1.0 Vp-p, 75 Ohm, unbalanced
Output level	VIDEO OUT (RCA type) 1.0 Vp-p, 75 Ohm, unbalanced
Signal to noise ratio	More than 43 dBm.
RF Modulator	UHF 28-68 (Adjustable)

Audio

Input level	AUDIO IN (RCA type) -6.0 dBm, more than 47 kohms
Output level	-6.0 dBm, less than 1 kohms
Track	Mono track
Frequency response	100 Hz-10 kHz (-6/+3 dBm)
Signal to noise ratio	More than 43 dB (at SP mode)

Troubleshooting

Check List



Video Head Cleaning

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.
Clean the video heads with a commercially available video heads cleaning tape.

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? Have you tuned in a dedicated channel on your TV to watch video on? If you have used a RCA lead to connect your VCR and TV have you selected the AV channel on your TV? Check tuning, carry out Automatic Tuning again
No playback or poor picture	Are the TV channels tuned in properly? Have you tried using another cassette? Can you minimise the noise bars to an acceptable level with the ▲ or ▼ buttons?
TV programmes cannot be recorded	Can you get a picture on the TV? Are the aerial leads and special RF connector lead between your VCR and TV connected? Are the TV channels tuned in properly; are they tuned in order? Has the safety tab on the video cassette been removed to prevent recording? Try another station, maybe a weak signal Check aerial is it plugged into TV?

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



LG Electronics Inc.

P/N:3834RP0072T