



**Video Cassette Recorder  
With ShowView**

**OWNER'S MANUAL**

**MODEL: N408Y/N208Y**



**SHOWVIEW  
SRS (●)**

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

**ENGLISH**



## Welcome to LG

Thank you for buying this LG video cassette recorder Model N408Y/N208Y.

Before using your video recorder you need to be familiar with the names of some of the buttons on the remote control handset (see Operating the video recorder, pages 4 to 6), and you need to set up the video recorder so that it can receive the TV stations in your area and so that your TV set can receive pictures from it (see pages 11 to 13).

### Installation

#### POWER

This Video Recorder operates on a mains supply of 100-240V~, 50 Hz.

#### SERVICE

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

#### PRECAUTIONS

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

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

#### MOISTURE CONDENSATION

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

#### CONDENSATION IS LIKELY TO OCCUR WHEN:

- The video recorder is moved from a cold room to a warm room or from outdoors to inside your home.
- A cold room is heated quickly.
- The humidity is very high.

## Features & Contents

### Features

- TSS (Turbo Search System)
- SRS (Sound Retrieval System)
- CM (Commercial Message) - Skip
- Programmable 80 channel memory with Frequency synthesized tuner
- ACMS (Automatic Channel Memory System) - the channels will be preset and memorized automatically.
- PAL B/G & SECAM D/K Dual system
- 6 event/1 month programmable timer
- Built in ShowView programming
- Recording and playback for 16:9 Wide-screen format
- Self diagnosis function
- NTSC playback on PAL TV
- Energy saving system
- QSR - Quick Set Recording- of up to 9 hours
- Digital Auto Tracking System
- Auto Head Cleaner
- Still & Frame advance functions
- Slow function (+1/19) (N208Y)
- VISS - VHS Index Search System
- Real Time Counter & Volume of Tape Remaining display
- Center tape Mechanism for high quality pictures
- LP - Long Play - recording and playback (N408Y)
- Slow functions ( $\pm 1/19$ ) (N408Y)
- Shuttle Controls (N408Y)

### Contents

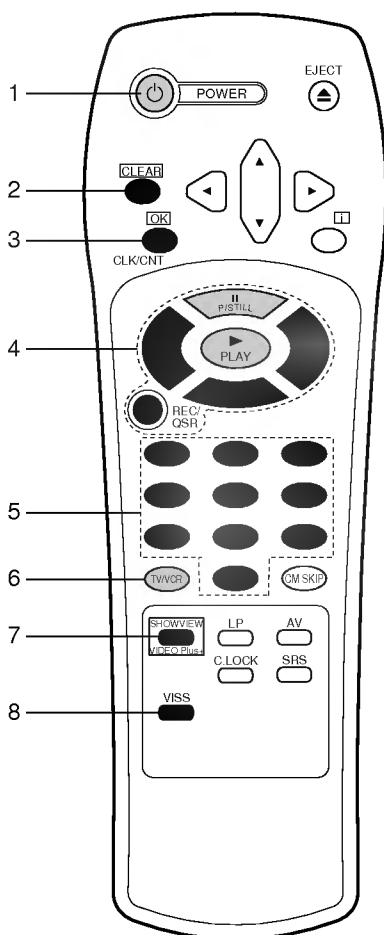
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## Operating the video recorder

### The Remote Control Handset

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

Some functions can also be controlled with the controls on the FRONT PANEL of the video recorder.



#### 1 POWER

To switch the video recorder on and off.

#### 2 CLEAR

To reset the tape counter to zero (see p 32).  
To clear a data.

#### 3 OK/CLOCK/TAPE COUNTER/TAPE REMAINING

- Confirms menu selection (see p 9).
- Calls the on screen display (see p 32).
- To switch the display on the front panel of the video recorder between the current time and the tape counter (in hours and minutes), the volume of tape remaining on the TV screen (see p 32). This function will only operate when a tape is loaded.

#### 4 Basic operation buttons;

- PLAY (see p 18).
- STOP (see p 18).
- REW (see p 19).
- FF (see p 19).
- PAUSE/STILL (see p 20, 22).
- REC/QSR (see p 22, 23).

#### 5 Number buttons;

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

#### 6 TV/VCR

Set this button to;

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

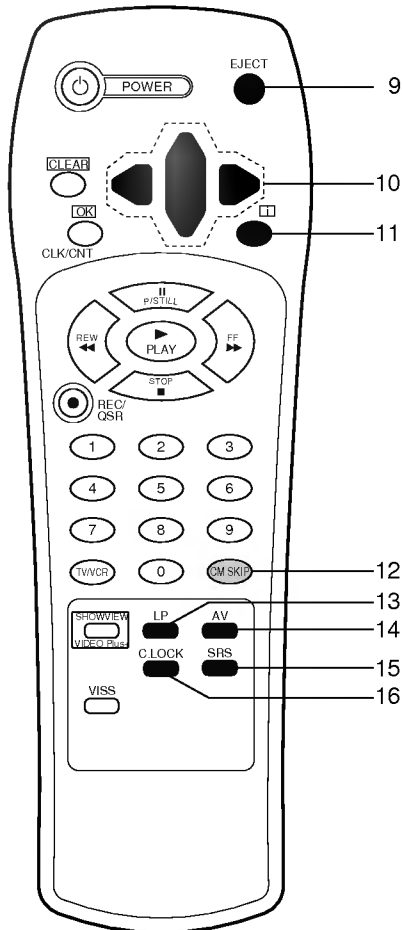
#### 7 SHOWVIEW

To display the programme menu for ShowView programming (see p 24 to 25).

#### 8 VISS

To activate the VISS (VHS INDEX SEARCH SYSTEM) (see p 35).

## Operating the video recorder



**9 EJECT BUTTON**  
To eject a tape (see p 17).

**10 CURSORS (▲▼◀▶)**  
▲▼:

- During OSD menu, for moving the cursor, selection bar up or down.
- Switches one channel programme up or down.
- During playback, tracking control.
- During still playback, adjusting vertical tremble.
- To adjust manual fine tune for receiving normal audio and picture (see p 13).

◀▶:

- During OSD menu, for moving the cursor to the left or right.
- Adjust the playback speed (see p 20). (N408Y)

**11 i**  
To display the on screen display (OSD) menu (see p 9).

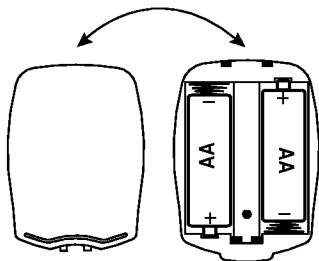
**12 CM SKIP**  
To fast forward picture search through 30 seconds of a recording (see p 18).

**13 TAPE SPEED SELECT (LP) (N408Y)**  
To select the recording speed of the tape (see p 22).

**14 AV**  
To select the input source of a recording (see p 6).

**15 SRS (Sound Retrieval System)**  
To turn the SRS function on/off (see p 30).

**16 CHILD LOCK**  
To turn the CHILD LOCK function on/off (see p 34).



### How to install batteries

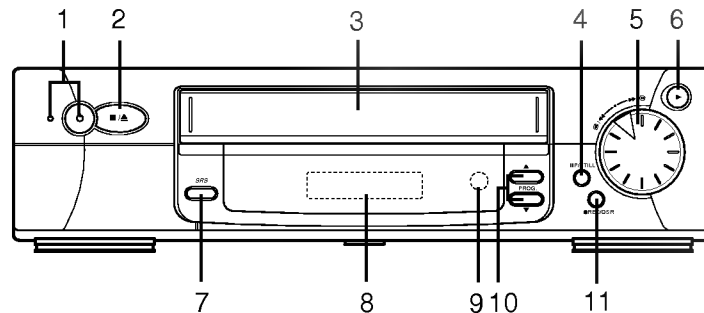
The wireless remote control is powered by two "AA" size batteries.

- 1** Remove the battery compartment lid.  
(Lift it up while pressing the tap forward).
- 2** Load the new batteries with their polarities (⊕ and ⊖) aligned properly and replace the lid.

If you do not intend to use the remote control unit for a long period of time, remove the batteries and store them in a cool, dry place.

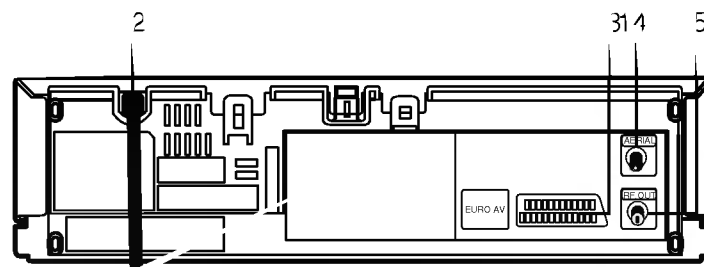
## Operating the video recorder

### Front View



- |  |  |
|--|--|
| <p><b>1 STANDBY</b><br/>To switch the video recorder on and off. To set the unit to energy save mode (see p 17).</p> <p><b>2 STOP/EJECT</b><br/>To stop the tape, or eject it from the video recorder.</p> <p><b>3 VIDEO CASSETTE COMPARTMENT</b><br/>When a cassette is inserted loading is completed automatically.</p> <p><b>4 PAUSE/STILL</b><br/>Switches to still picture (see p 20), during recording to pause (see p 22).</p> <p><b>5 SHUTTLE RING</b><br/>Turn to start rewind or fast forward in the stop mode (see p 21).</p> <p><b>6 PLAY</b><br/>To play the tape (see p 18).</p> | <p><b>7 SRS (Sound Retrieval System)</b><br/>Turn the SRS function on and off (see p 30).</p> <p><b>8 MULTI FUNCTION DISPLAY</b><br/>Display of time, tape counter or other information about the status of the video recorder.</p> <p><b>9 REMOTE CONTROL SENSOR</b><br/>To receive the signals from the remote control handset.</p> <p><b>10 PROGRAM (▲/▼)</b><br/>Allows you to scan through memorized channels.</p> <p><b>11 REC/QSR</b><br/>Used to record and set the QSR (Quick Set Recording) time (see p 22 to 23).</p> |
|--|--|

### Rear View



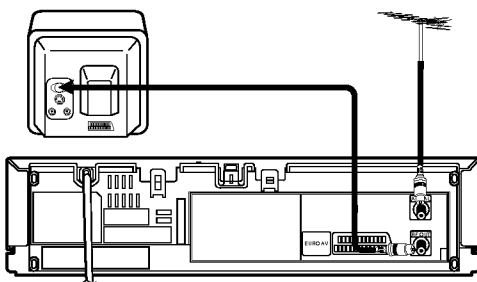
- |   |   |
|---|---|
| <p><b>12 MAINS LEAD</b></p> <p><b>13 EURO AV</b><br/>To connect the video recorder to your TV set or to another video recorder (see p 7, 36).</p> | <p>For recording from EURO AV select "AV" with the "AV" button (see p 22).</p> <p><b>14 AERIAL</b><br/>Connect the external aerial to this terminal.</p> <p><b>15 RF.OUT</b><br/>Connect this terminal to the "AERIAL" terminal on the back of the TV, using the coaxial RF cable (supplied).</p> |
|---|---|

## Installing your video recorder

### IMPORTANT!

Before you use your video recorder you must:

- 1 Connect the video recorder to your TV aerial and TV set. (described later on this page).
- 2 Set the tuner channels so that the video recorder can receive TV signals (see p 11 to 13).  
When this has been done, the setting up of the video recorder is complete.

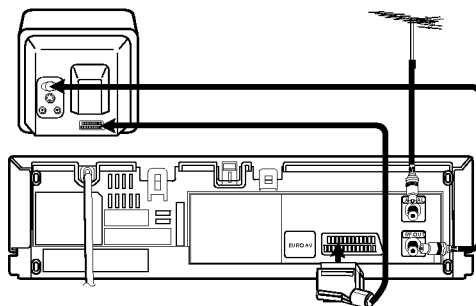


### Connecting the video recorder to your TV

#### AERIAL/RF CONNECTIONS

For TV sets without AV input terminals:

- 1 Disconnect the aerial from your TV set and plug it into the socket marked "AERIAL" at the back of the video recorder.
- 2 Use the coaxial cable supplied to connect the aerial terminal on your TV set to the socket marked "RF.OUT" at the back of the video recorder.
- 3 Plug the video recorder into a mains wall socket.



#### A/V CONNECTION

This video recorder and your TV set can also be connected with a EURO SCART cable. This connection ensures the highest picture/sound quality.

## Setting the VCR output channel

Your TV set receives the video recorder signal like another TV station. So you have to select a programme number for the video recorder.

Take care to select this programme number, whenever you control the video recorder, or watch a recording. Only if you have selected this programme number, which we call video programme number, you will see the picture from the video recorder on the screen.

If you connect a monitor or a TV set equipped with Euro Scart or audio and video sockets, this adjustment will not be necessary. Consult the operating instructions of your TV set.

Connect the video recorder as described in the section on Connections (see on previous page).

### Setting the output channel of the VCR

#### **A** SETTING THE VIDEO CHANNEL WITH PLAYBACK

The output channel of the video recorder is set at UHF channel 36.

- 1** Switch on the TV set and the video recorder.
- 2** Play any prerecorded video cassette tape on your video recorder.
- 3** Select the correct channel (36) on your TV set. And then you will see the picture being played in video recorder.  
(**Note** - You will need to look at the instruction manual for your TV set if you do not know how to do this.)

#### **B** SETTING THE VIDEO CHANNEL WITH OSD (ON SCREEN DISPLAY)

- 1** Switch on the TV set and the video recorder.
- 2** Select the correct channel (36) on your TV set.
- 3** And then you will see a blue background picture on the TV screen
- 4** Store this channel in an unused programme number on your TV set.

### Changing the transmitter channel

If channel 36 is already occupied at your TV set, or if the picture is distorted, you can change the transmitter channel of the video recorder.

- 1** Select an unoccupied channel between 22 and 68 on your TV set.
- 2** During power off mode (only clock displays) hold down the PROG. "▲" and "▼" buttons on the VCR simultaneously for more than 4 seconds. Then, "RF-CH 36" will be displayed on the VCR's display.
- 3** Press the PROG. "▲" or "▼" buttons on the VCR to select another video channel eg. between channels 22 and 68, until the test pattern shown the left is received.
- 4** Press the POWER button when you have finished.

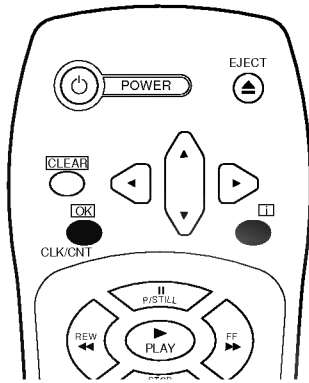




## Initial preset

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

**NOTE :** If this menu does not appear, your video recorder is already programmed.

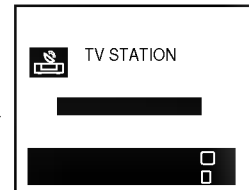


**1** Press the "OK" button to start the preset.

**2** Wait some minutes, until all stations are searched and the "TV STATION TABLE" menu appears on the TV screen.

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

You might want to make manual changes to the order or delete double received stations (see p 14 to 15).



## On Screen Displays

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

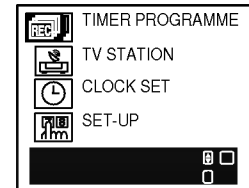
### The Main menu

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

**2** Press the "i" button to display the Main menu.

**3** Press the cursor "▲" and "▼" buttons to select the desired menu and press the "OK" button.

**4** **NOTE** - After using the menu press the "i" button to remove menus from the TV screen.



#### TIMER PROGRAMME

Used to record a programme with the timer (see p 26 to 27).

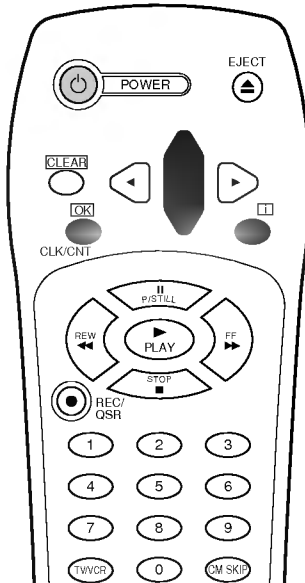
#### TV STATION

Used for automatic setting of the TV stations (see p 11).

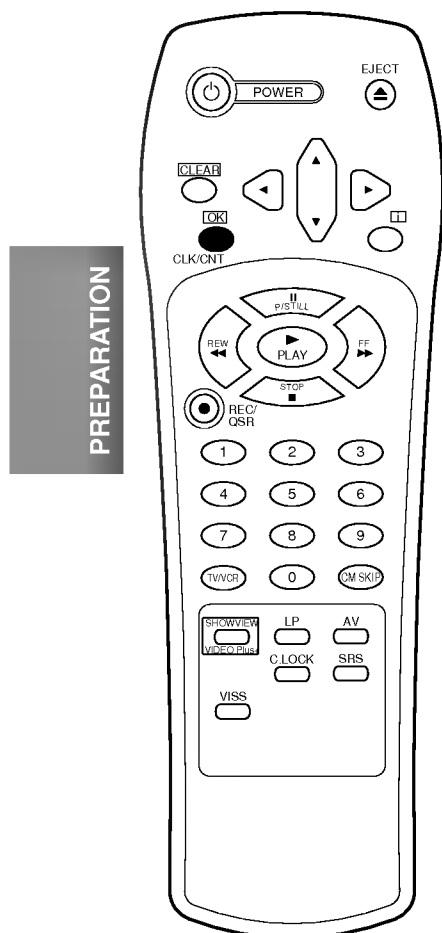
Used to view stored TV stations or to set TV station information manually (see p 12 to 13).

#### CLOCK SET

To set the clock manually (see p 16).



## On Screen Displays

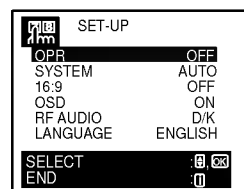


### SET-UP

You can set the desired mode by pressing the "OK" button repeatedly.

- **OPR (Optimum Picture Response)**

When using the poor tape, set "OPR" to "ON" to improve playback picture quality (see p 18).



**NOTE** : Setting "OPR" to "ON" is only possible during playing back.

- **SYSTEM (AUTO → PAL → MESECAM )**

Select the colour system used for playback and recording (see p 21).

- **16:9**

To select the aspect ratio of your TV.

"**AUTO**" : for playing back wide-screen programmes as wide, normal programmes as normal (see p 34).

"**ON**" : for recording and playback with a 16:9 Wide-screen format recording.

"**OFF**" : for recording and playback with a normal format.

- **OSD** : Switches the on screen display OFF or ON (see p 32).

- **RF AUDIO (B/G AND D/K)**

Select the channel of audio output according to your TV type.

"**B/G**" : for PAL B/G TV.

"**D/K**" : for PAL D/K TV.

- **LANGUAGE**

Allows you to select the language of the On Screen Display.

You can select among ENGLISH, RUSSIAN and DEUTSCH.

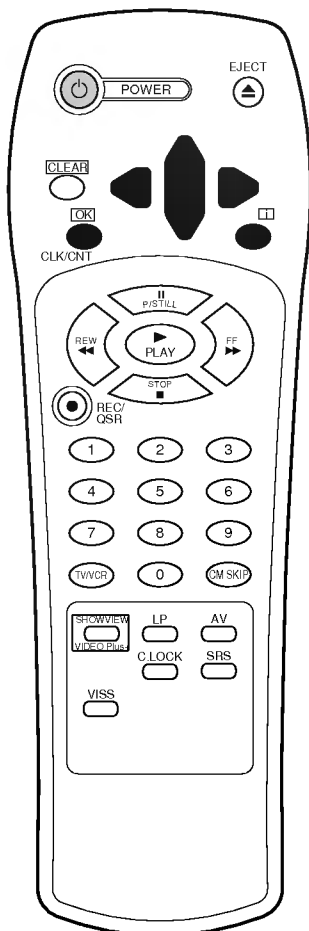
## Storing TV stations in the VCR tuner

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

### Automatic tuning

To carry out Automatic tuning:

- 1 Switch on the TV and the video recorder (with the "POWER" button).
- 2 Press the "i" button on the video recorder handset. The menu will appear on the TV screen.
- 3 Use the cursor "▲" and "▼" buttons to select "TV STATION".

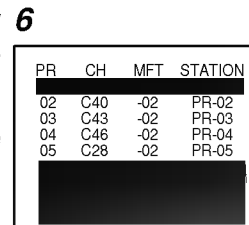
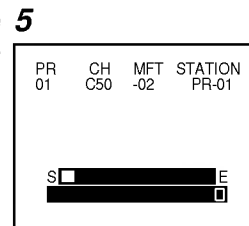
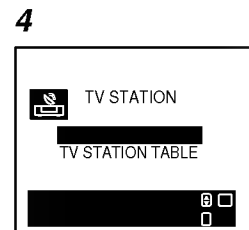
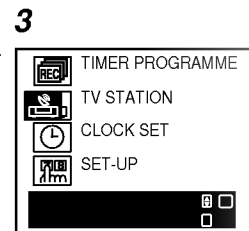


- 4 Press the "OK" button.

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

- 6 After finishing the storing, the "TV STATION TABLE" menu appears on the screen.

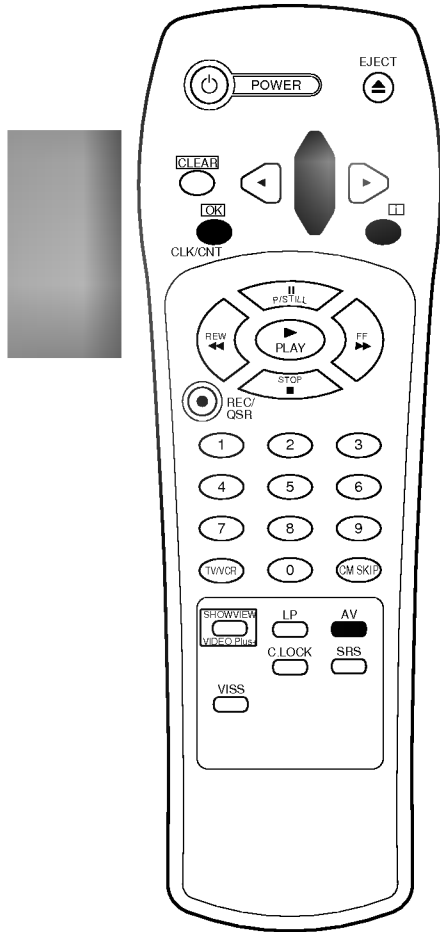
- 7 Press the "i" button to remove the menus from the TV screen.



## Storing TV stations in the VCR tuner

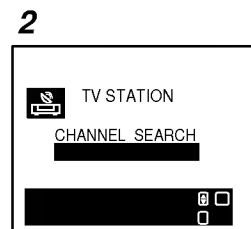
### Manual tuning

TV station Channel numbers and Station names can be stored manually. To carry out manual tuning:

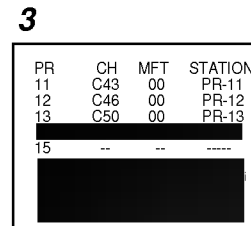


**1** Press the "1" button on the video recorder handset. The menu will appear on the TV screen. Use the cursor "▼" button to select "TV STATION". And press the "OK" button.

**2** Use the cursor "▼" button to select "TV STATION TABLE".

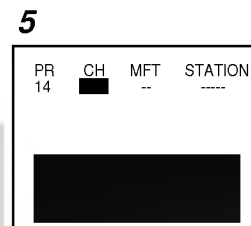


**3** Press the "OK" button.



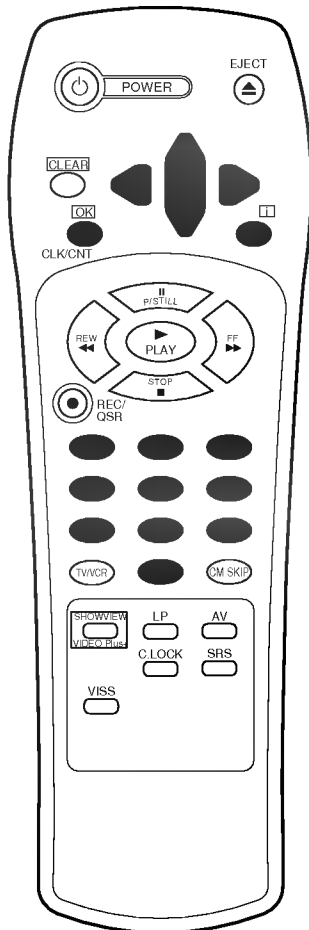
**4** Use the cursor "▲" and "▼" buttons to select the programme number that you want to tune and press the "OK" button.

**5** Press the "AV" button to select the type of TV channels.



- "C" for standard channels C01-C78.
- "S" for special channels (Cable) S01-S41.

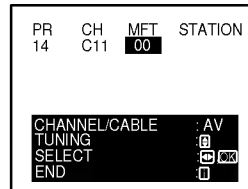
## Storing TV stations in the VCR tuner



**6** Enter the channel number of station that you want to tune with number buttons.

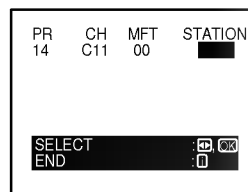
- Searching will stop when it locates a station.
- Control the fine tuning of the station by pressing the cursor "▲" and "▼" buttons.

**6**



**7** To enter a station name, select "STATION" using the cursor "▶" button.

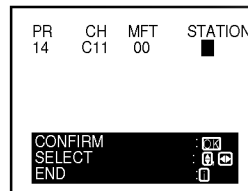
**7**



**8** Press the "OK" button to make the station name.

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

**8**



- 3) When you have the station name as required press the "OK" button and "i" button. The "TV STATION TABLE" menu will be displayed.

**Note** - If you don't want to change the station name, press the "i" button instead of "OK" button.

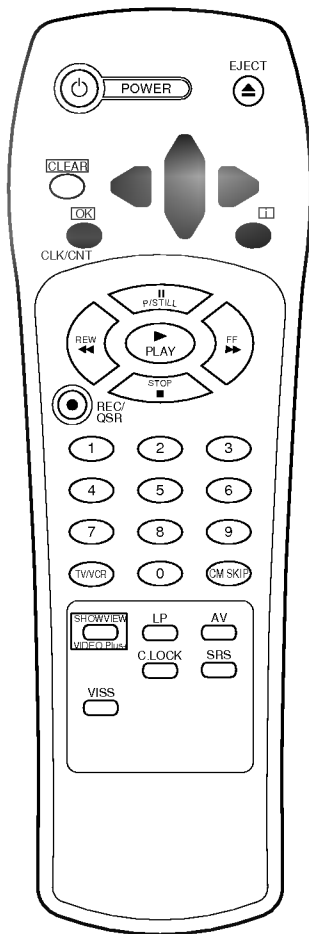
Store other stations, missing or incorrect station names using steps 4 to 8.

**9** End the station storing by pressing the "i" button.

PREPARATION

## Storing TV stations in the VCR tuner

PREPARATION



### Changing the programme order of the "TV STATION TABLE" menu

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

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

**3**

PR	CH	MFT	STATION
01	C28	-02	ARD
02	C40	-02	ZDF
03	C43	-02	SPORT
04	C46	-02	SAT 1
05	C50	-02	3 SAT

SELECT : [OK]  
END : [ ]

**4**

PR	CH	MFT	STATION
01	C28	-02	ARD
02	C40	-02	ZDF
03	C46	-02	SAT 1
04	C43	-02	SPORT
05	C50	-02	3 SAT

SELECT : [OK]  
END : [ ]

**5**

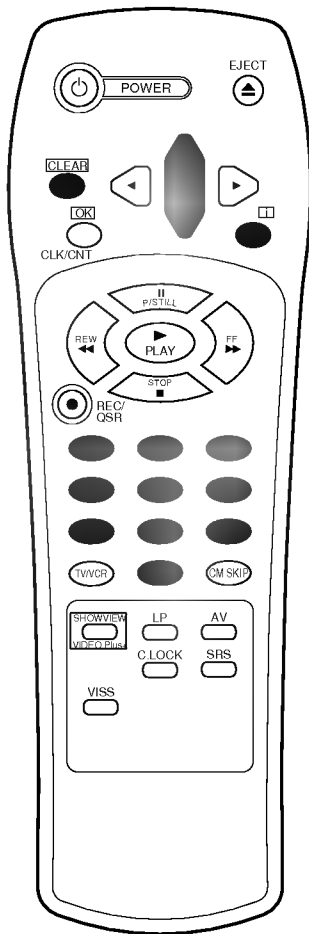
PR	CH	MFT	STATION
01	C28	-02	ARD
02	C40	-02	ZDF
03	C46	-02	SAT 1
04	C43	-02	SPORT
05	C50	-02	3 SAT

DELETE : [ ]  
MOVE : [ ]  
SELECT : [OK]  
END : [ ]

## Storing TV stations in the VCR tuner

### Clearing stations from the "TV STATION TABLE" menu

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



**1** Press the "i" button on the video recorder handset. The menu will appear on the TV screen. Select "TV STATION" with the cursor "▲" and "▼" buttons and press the "OK" button.

**2** Select "TV STATION TABLE" with the cursor "▲" and "▼" buttons and press the "OK" button.

**3** Move the cursor down or up with the cursor "▲" and "▼" button to select the programme that you want to clear.

(for example "PR 03")

**4** Press the "CLEAR" button to delete. After a short while, the selected station will be cleared.

**5** Clear other stations, if you wish, by repeating steps 3 and 4.

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

**2**

PR	CH	MFT	STATION
01	C28	-02	ARD
02	C40	-02	ZDF
03	C43	-02	SPORT
04	C46	-02	SAT 1
05	C50	-02	3 SAT

DELETE	: CLEAR
MOVE	: [ ]
SELECT	: [ ] [OK]
END	: [ ]

**4**

PR	CH	MFT	STATION
01	C28	-02	ARD
02	C40	-02	ZDF
03	C46	-02	SAT 1
04	C50	-02	3 SAT
05	--	--	----

DELETE	: CLEAR
MOVE	: [ ]
SELECT	: [ ] [OK]
END	: [ ]

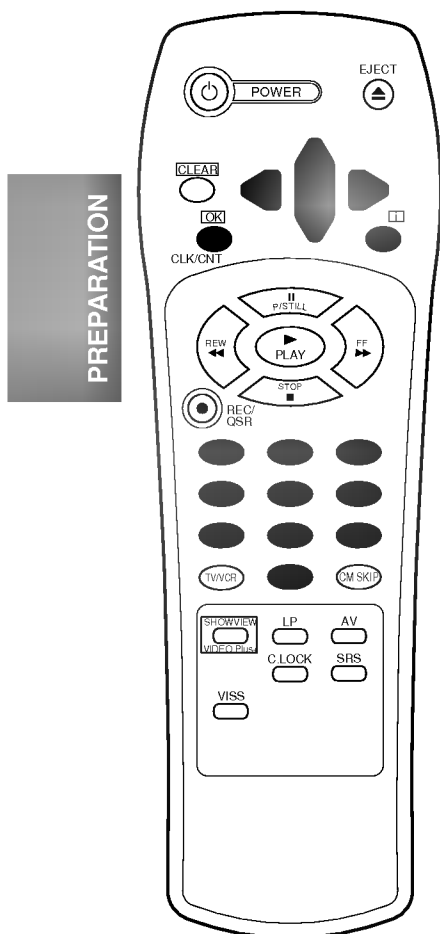
### SELECTING STORED TV STATIONS

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

**1** Use the "▲" and "▼" buttons to move from one station to another.

**2** Enter the programme number with the number buttons, to select a station directly. You can enter the stations 1 to 9 with the one digit only. The channel will be selected at once.

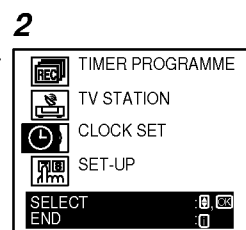
## Time and date setting



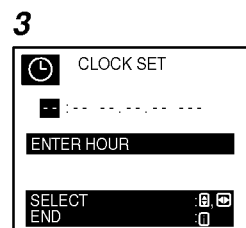
### Setting the video recorder's clock

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

**2** Select "CLOCK SET" with the cursor "▲" and "▼" buttons.



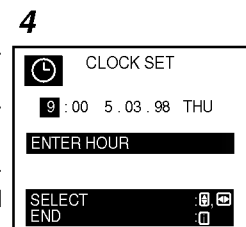
**3** Press the "OK" button.



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

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

- Inputting 1 must be entered as 01, 2 as 02 etc.
- Correct errors during inputting with cursor "◀" and "▶" buttons.



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

The set time will appear on the video recorder's display.

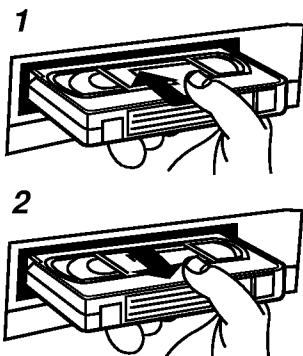




## Using the VCR to play back a tape

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

### Loading & Unloading a video cassette



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

Gently press the middle of the tape.

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

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

"EJECT" will appear for a few seconds on the TV screen. It is not necessary to switch on the video recorder, by pressing the "POWER" button before inserting and ejecting a video cassette.

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

### Types of video cassette

Use VHS tapes in this video recorder.

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

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

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

On LP (long play) the maximum record and playback time is twice that given on the video cassette. (N408Y)

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

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



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

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

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

### How to using the energy saving mode

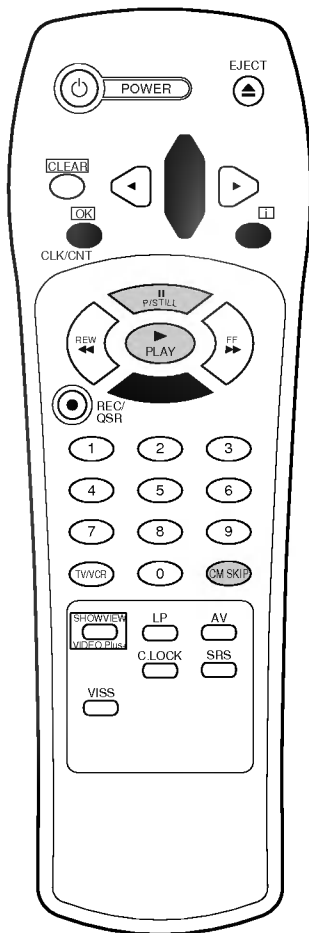
**1** Press the "⏻" button on the VCR. The clock and channel number will be displayed on the video recorder's display.

**2** If you press the "⏻" button on the VCR once again, video recorder will go into the energy saving mode.

Then, the "⏻" LED will light and the clock display disappears. For releasing the energy saving mode, press the "⏻" button once again.

**Note** - If you have programmed a recording, the energy saving mode does not work.

## Using the VCR to play back a tape



### Normal playback

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

**Automatic tracking** - The video recorder will automatically adjust the tracking to give the best quality picture. A.TRK will appear on the video recorder's display while it is doing this.

#### Standard Play (SP) or Long Play (LP) tape - (N408Y)

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

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

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

### CM (Commercial Message)-Skip

(While in play mode) Pressing "CM SKIP" button on the remote control skips commercials or other programme material. Pressing 1, 2, 3, or 4 times skips 30, 60, 90, or 120 seconds, respectively. CM SKIP skips a full 120 seconds of commercials in a few seconds, then resumes normal playback.

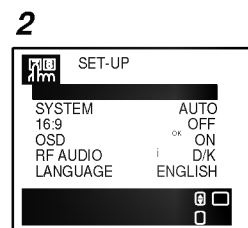
### About Optimum Picture Response (OPR)

Optimum Picture Response (OPR) automatically improves playback picture quality by adjusting the video recorder to the condition of the tape.

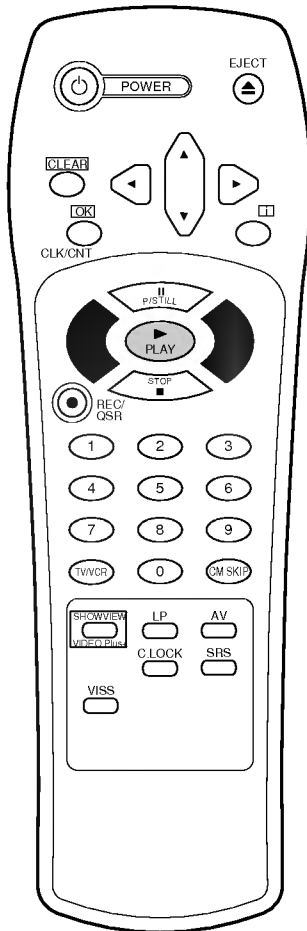
Set OPR to ON to maintain better playback picture quality.

- 1 Press the "i" button to display the Main menu.
- 2 Press the cursor "▲" and "▼" buttons to select the "SET-UP" menu and press the "OK" button.
- 3 Set "OPR" to "ON" with "OK" button.
- 4 Press the "i" button to remove menus from the TV screen.

**Note** - Setting "OPR" to "ON" is only possible during playing back.



## Other playback features



This video recorder will allow you to rapidly wind a tape forwards or backwards, search a cassette tape, view individual frames on a tape, and play back a tape in slow motion.

### Fast forward (FF)

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

### Rewind (REW)

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

### LOGIC search

If you hold down either of the search buttons ("FF" or "REW") during fast forwarding or rewinding the tape, the picture will be seen at about 9 times (NTSC recorded tape: 7 times) the normal playback speed. This enables you to see where you are on the tape. When you release the button the video recorder continues fast forward or rewind.

### Picture search - CUE & REVIEW

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

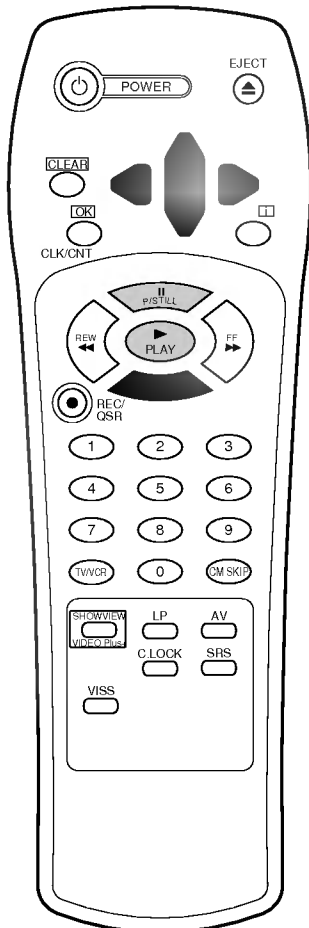
During playing back press either the fast forward ("FF") or rewind ("REW") button.

The tape will be played forward or backwards at about 9 times (NTSC recorded tape: 7 times) the normal playback speed. When the desired point on the tape has been reached press the "PLAY" button and the video recorder will continue to play back the tape at the normal speed.

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

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

## Other playback features



### Still picture playback

You can play back and advance a still picture as follows:

- 1 Press the "P/STILL" button during playing back. You see a still picture on the TV screen.

**NOTES** - ● You can remove the vertical tremble with the cursor "▲" and "▼" buttons.  
● If during still picture playback you hold down the "P/STILL" button for more than 1 second, the picture will be changed to slow motion (+1/19). (Only N208Y)  
● If you want to remove the noise bars in a still picture, place the VCR in slow motion. Use the cursor "▲" and "▼" buttons to remove the noise bars. And then press the "P/STILL" button again.

- 2 You can advance the still picture by pressing the "P/STILL" button. By repeatedly pressing this button the picture advances one frame at a time.
- 3 To switch off the still picture, press the "PLAY", or the "STOP" buttons.

### Slow motion playback, Shuttle (N408Y)

This video recorder is equipped with a slow motion and shuttle features.

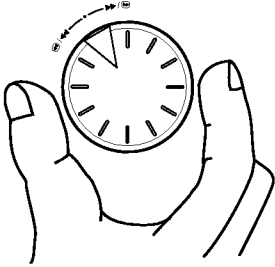
- 1 During playing back or still picture press the cursor "◀" or "▶" button.
- 2 You can reach the following playback speeds :  
-9Xplay, -7Xplay, -3Xplay, -play, -1/19 slow, still, 1/19 slow, play, 2Xplay, 7Xplay, 9Xplay.
- 3 If distortions can be seen in the picture, remove them with the cursor "▲" and "▼" buttons.
- 4 To switch off the slow motion, press the desired function, e.g. playback, search, still picture or stop.

The slow motion playback will only continue for about 3 minutes, after which the video recorder will return to normal playback mode, to avoid damage of the tape.

When using the special playback effects (logic, picture search, still and slow motion playback) with a tape recorded in LP, there will be a loss of colour and there will be noise bars on the picture.

**NOTE** - ● During slow or still playback, the noise bars may appear on the picture according to the status of tape (especially NTSC recorded tape). In these cases adjust the tracking to play back a tape with the optimum picture quality. You can adjust the tracking with the cursor "▲" and "▼" buttons.

## Other playback features



### How to using the Shuttle Ring

This function allows you to find a scene by playing in forward and reverse directions.

#### TO ADVANCE THE TAPE RAPIDLY

Press the "STOP" button and turn the "SHUTTLE RING" clockwise.

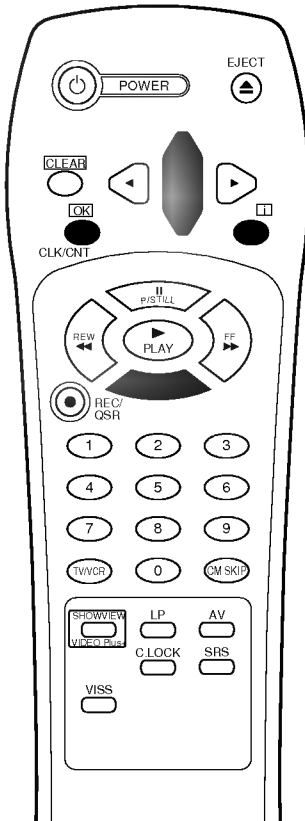
#### TO REWIND THE TAPE

Press the "STOP" button and turn the "SHUTTLE RING" counterclockwise.

#### TO VIEW THE PICTURE DURING FAST FORWARD MODE OR REWIND MODE

You can view the picture momentarily while the video recorder is in the fast forward or rewind mode.

Hold down the "SHUTTLE RING" clockwise during fast forward, and counterclockwise during rewind.

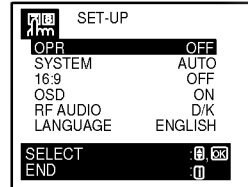


### Selection of the colour system

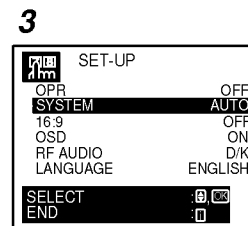
Because your video recorder is equipped with dual colour standard, you can play back recordings in PAL B/G and SECAM D/K. During playing back or recording your video recorder detects the colour system automatically. If there are colour problems with very weak signals, you should select the colour system manually:

**1** Press the "i" button to display the Main menu.

**2** Press the cursor "▲" and "▼" buttons to select the "SET-UP" menu and press the "OK" button.



**3** Press the cursor "▼" buttons to select the "SYSTEM".

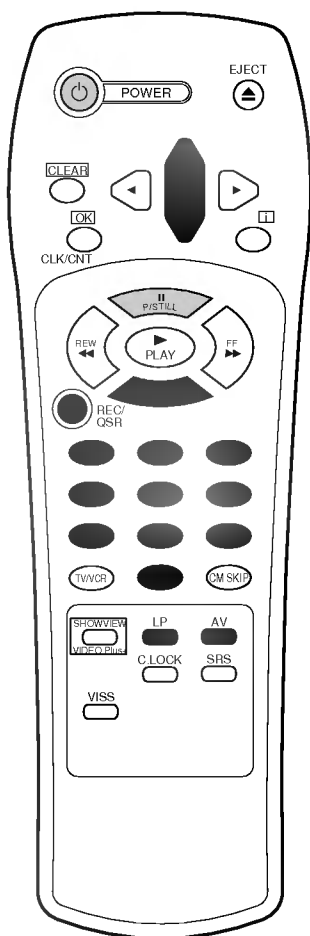


**4** Use the "OK" button to switch among:

"AUTO": automatic colour selection,  
 "PAL": PAL recordings,  
 "MESECAM" : SECAM B/G recordings.

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

## Using the VCR to record



### Introduction to the recording features

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

- 1** You may record immediately, (a programme you may be watching), by switching the video recorder both on and off (see below).
- 2** You may record immediately for a set period of time of up to 9 hours. This is called Quick Set Recording (QSR). The video recorder will automatically switch itself off at the end of the QSR (see p 23).
- 3** You may record at a later time (up to 1 month from the present) using the built-in timer. Up to 6 of these automatic recordings may be set at the same time - provided, of course, that there is sufficient time on the video cassette. There are two ways in which you can programme the video recorder for automatic recording.
  - 1** You can use the ShowView feature, which is built into this video recorder (see p 24 to 25).
  - 2** You may set the times manually, using either the on screen display (OSD) (see p 26 to 27).

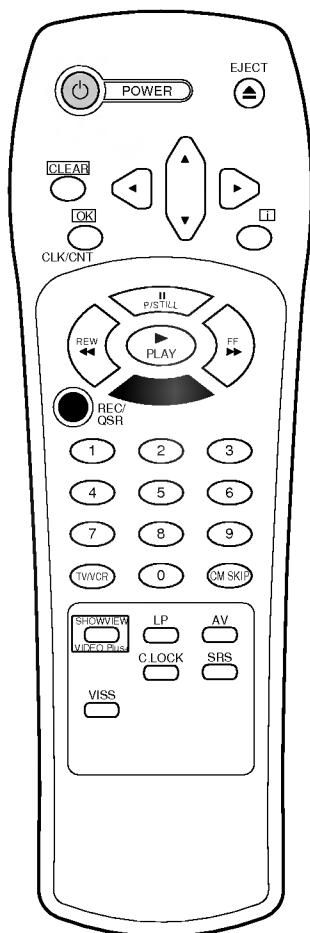
**Note** - Ensure that the safety tab has not been removed from the video cassette on which you wish to record.

### To record

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

**Note** - If you want to record from the "EURO AV" socket on the back of the video recorder, press the "AV" button to the "AV" mode, as shown by the display on the video recorder's display.
- 4** Select LP with the "LP" button, if you want to record in long play mode. (N408Y)
- 5** Press the "REC/QSR" button to start recording. "RECORD" will appear for a few seconds on the TV screen. "VISS MARK" will appear on the video recorder's display. The recording is being marked by the VISS (VHS Index Search System) function. This will enable you to quickly find the recording at a later date.
- 6** If you want to avoid recording unwanted scenes press the "P/STILL" button. "RECP" will appear for a few seconds on the TV screen. To continue recording press the "P/STILL" button again.
- 7** Press the "STOP" button to stop recording. "STOP" will appear for a few seconds on the TV screen.

## Using the VCR to record



### RECORDING ONE TV PROGRAMME WHILE WATCHING ANOTHER

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

- 1** Start a recording by following steps 1 to 5 on previous page.
- 2** Select the TV station you want to watch with the programme channel selector on your TV set.

### Immediate timer (QSR)

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

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

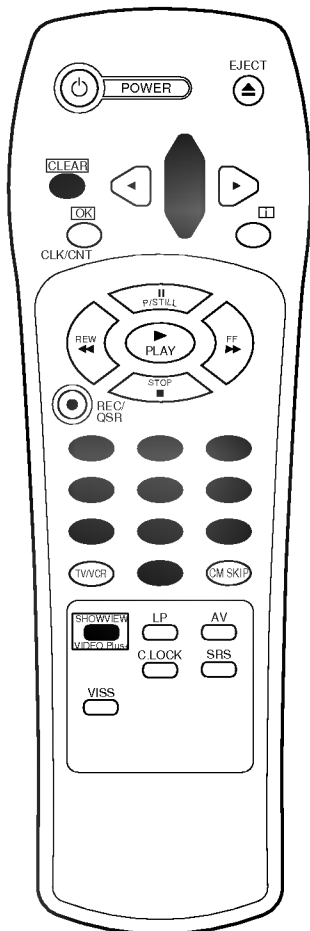
Each time you press this button the QSR time will be extended by 30 minutes. The maximum time that can be set is 9 hours.

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

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

## Programming the VCR timer

RECORDING



The timer allows you to record broadcasts automatically. Up to 6 recordings within one month can be programmed at the same time.

### Introduction to ShowView

ShowView programming lets you set the video recorder to record programmes, by simply entering a ShowView Code. These ShowView Codes are published in TV listings in almost all newspapers and TV Guides. They can vary from one to nine digits and are usually with the programme name as shown in the sample page of a TV Guide.

The ShowView Codes contain all the information needed by the video recorder (programme start and stop date and time and programme number). It is easy to alter the information programmed into the video recorder by a ShowView Code if you wish to do so. For example you may wish to extend the stop time in case the programme is running late.

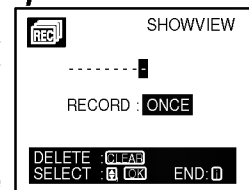
ShowView is a registered trademark of Gemstar Development Corporation.

The ShowView system is manufactured under licence from Gemstar Development Corporation.

### ShowView programming on the TV screen

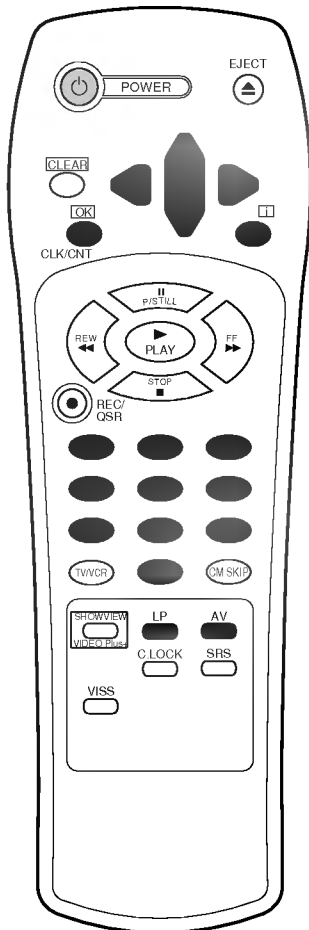
These new timer programming feature is very easy to use:

- 1** Press the "SHOWVIEW" button. The SHOWVIEW menu appears.
- 2** Select the recording type by repeatedly pressing the "▲" and "▼" buttons. It select among:
  - ONCE** : To record a programme once only.
  - WEEKLY** : To record a programme at the same time every week.
  - DAILY** : To record a programme every day (except Saturday and Sunday) at the same.
- 3** Use the number buttons to enter the ShowView number of the broadcast you want to record, exactly as it is shown in your TV magazine.
  - If you enter an incorrect number press the "CLEAR" button to erase it, and enter the correct number.



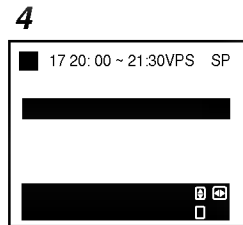


## Programming the VCR timer

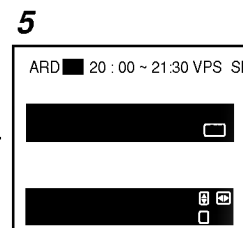


**4** Press the OK button.  
You will see the data of the selected broadcast.

- If "PLEASE CHECK NUMBER !" appears, you have to check the entering and repeat the procedure.
- If "-" is displayed, you have to enter the programme number of the station, you want to record from.
- If you want to record from the EURO AV socket on the back of the video recorder, switch to AV mode with the "AV" button.
- Activate or deactivate VPS with the "▲" or "▼" button (see p 29).
- If you want to change the record mode, press the "LP" button. (N408Y)

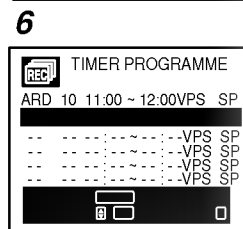


**5** If you wish to change any of the settings as displayed you can do so. Move between them with the cursor "◀" and "▶" buttons. Use the number buttons or cursor "▲" and "▼" buttons to change the date and the time.



**6** Finish your timer inputs with the "i" button.  
A menu of the timer programmes set into the video recorder will be displayed on the TV screen.

- If "PLEASE CORRECT THE DATA!" is displayed, you have entered a wrong data. Please correct the data.

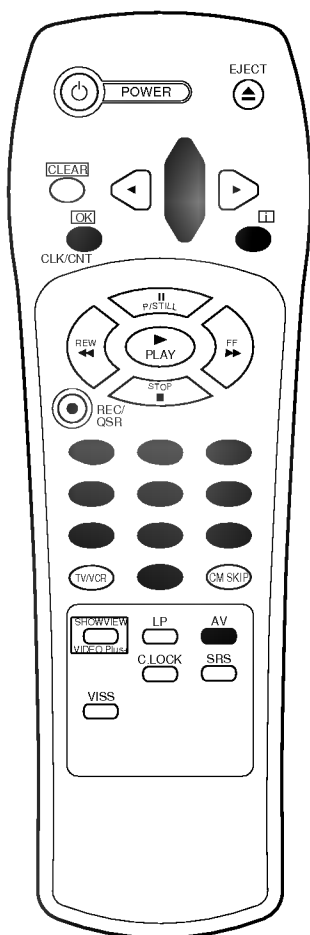


**7** Press the "i" button to remove the menus from the TV screen.

**8** Make sure that there is a video cassette in the video recorder and switch the video recorder off with the "POWER" button.  
The timer set (i) symbol is shown on the video recorder.

## Programming the VCR timer

RECORDING



### Recorder timer programming using the On Screen Displays

Without the ShowView code you need to enter the programme number, date, and the start and stop times of the programme you wish to record.

**1** Press the "i" button, select "TIMER PROGRAMME" with the cursor "▲" and "▼" buttons and press the "OK" button.

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

**3** Select the programme number that you wish to record using the number buttons.

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

- If you want to record from the "EURO AV" socket on the back of the video recorder, switch to AV mode with the "AV" button.

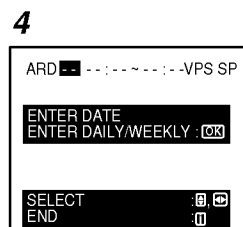
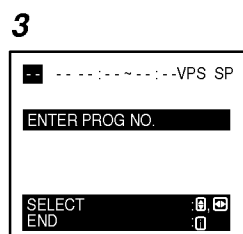
**4** Enter the day using the number buttons.

**If you want to change recording type:**

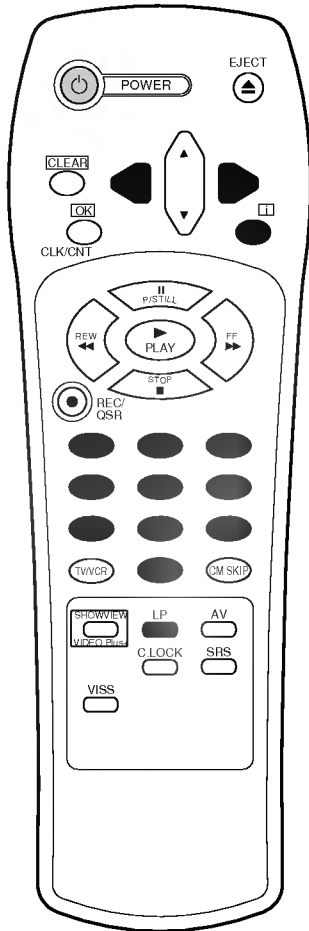
1) Press the "OK" button.

- **DAILY** : for daily recordings from Monday to Friday.
- **WEEKLY** : (SUN to SAT) : for a weekly repeated recording.

2) Select the recording type with the cursor "▲" and "▼" buttons and select it with the "OK" button.



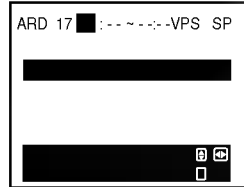
## Programming the VCR timer



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

- For setting programme times you must use the 24 hour clock.
- Errors can be corrected with the “◀” and “▶” buttons.
- Activate or deactivate VPS with the “▲” or “▼” button (see p 29).
- If you want to change the record mode, press the “LP” button. (N408Y)  
LP : for Long play.  
SP : for Standard play.

**5**

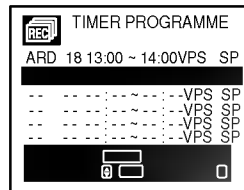


**6** Finish your timer inputs with the “i” button.


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

- If “PLEASE CORRECT THE DATA!” is displayed, you have entered a wrong data. Please correct the data.

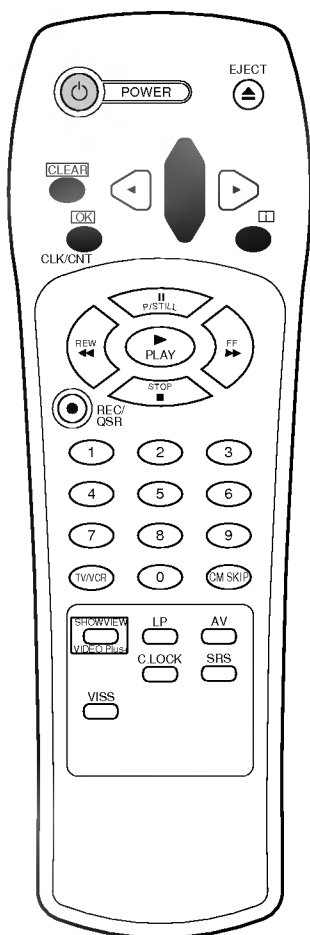
**6**



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

**8** Make sure that there is a video cassette in the video recorder and switch the video recorder off with the “POWER” button.  
The timer set  symbol is shown on the video recorder.

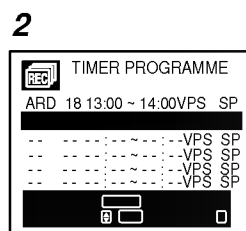
## Programming the VCR timer



### Checking and clearing stored timer programmes.

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

- 1** Press the "i" button.  
The Main menu appears on the screen.
- 2** Select "TIMER PROGRAMME" with the cursor "▲" and "▼" buttons and press "OK" button. The timer programmes list will be displayed on the TV screen.
- 3** If you wish clear any of the programmes on the list, select it with the cursor "▲" and "▼" buttons, and press the "CLEAR" button to clear.
- 4** If you wish change any of the data for any of the programmes on the list, select it with the cursor "▲" and "▼" buttons, and press the "OK" button. The timer menu will be displayed. Change the data as described on previous page.
- 5** Press the "i" button to remove the menus from the TV screen.

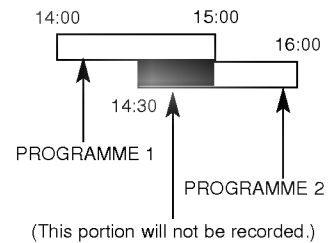


## Programming the VCR timer

### Overlapping timer programmes

When timer programmes overlap, the programme which is already recording continues to its scheduled end time. Hence the beginning of the second programme will not be recorded.

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



### Video Programme System (VPS)

The Video Programme System (VPS) system ensures that the TV programmes that you have programmed for timer recording will be recorded exactly from their beginning to end, even if the actual broadcasting time differs from the scheduled time due to delayed start, or if the programme is extended beyond its scheduled time. Also, if a programme is interrupted, for example, if a news flash is inserted, the recording will also be interrupted automatically and resumed when the programme continues.

The VPS signal is broadcast by the TV station and this controls the timer in the video recorder.

VPS should be set ON for all timer recordings from TV stations broadcasting these signals. It should be set OFF for all timer recordings from TV stations that are not broadcasting these signals.

RECORDING

## SRS (Sound Retrieval System)

### What is SRS 3D Sound?

SRS stands for the Sound Retrieval System. It differs from stereo and other sound expansion techniques because it is based on the human hearing system. Our ears are complex instruments that allow us to hear in three dimensions. Microphones and traditional stereo playback systems only produce flat, two dimensional sound images which are somewhat limited compared to "real live sound." SRS compensates for these limitations by re-establishing the necessary information that allows us to hear in three dimensions. The results are incredible and startlingly close to real-life.

SRS is unique because it does not rely on special recording techniques. It works with any audio signal whether it is mono, stereo, surround sound or even encoded with a sound enhancement process. Most importantly SRS does not rely on phase shift or time delay or employ any harmonic distortion to achieve is sensational effect.

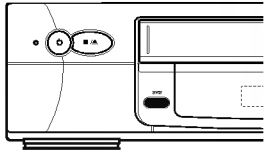
### Operation

1 Connect the video recorder to your TV set with a Euro Scart cable.

#### IMPORTANT!

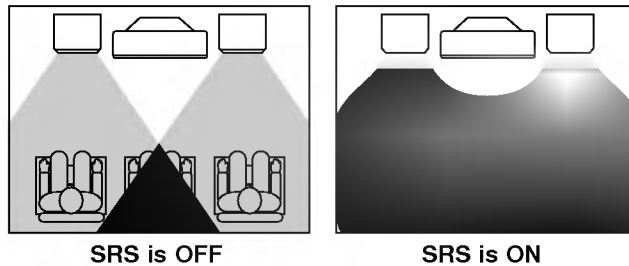
● SRS is only possible with A/V connection.

2 Press the **SRS** button to enjoy "real live sound" during playback or watching TV program. (SRS button is lighted.)



### No Critical Listening Position

With SRS 3D Sound, there is no critical listening position. In fact, the entire room feels like one giant sweet spot and the speakers are no longer the discernible point source of sound.



\* SRS, the SRS Symbol and Sound Retrieval System are registered trademarks of SRS Labs, Inc. in the United States and selected countries.

\* SRS technology under license from SRS Labs, Inc.

\* Purchase of this product does not convey the right to sell recordings made with the SRS technology, i.e., Sound Retrieval System.

\* SRS technology is protected by US patents Nos. :4,748,669 and 4,841,572 and additional patents issued worldwide.

## Other features

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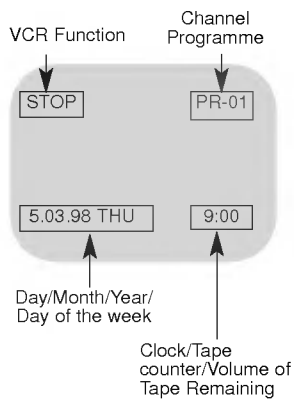
### Introduction

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

The features described here are:

- 1** The On Screen Display of the time or tape remain or tape counter, date, programme channel and operation mode of the video recorder.
- 2** The Digital Tape Counter and the Volume of Tape Remaining indicator.
- 3** The Memory Stop facility that can be used during rewind to stop the tape at a preset point.
- 4** The tracking control that optimizes the picture quality.
- 5** The Automatic Playback facility which plays back a tape, rewinds and ejects it and switches off the video recorder.
- 6** Automatic Memory Power Shut Off when a video cassette is rewound.
- 7** Automatic Switch Off when the TV station stops broadcasting.
- 8** A child lock facility so that the video recorder can be controlled only from the handset.
- 9** The VISS (VHS Index Search System) to help you find the beginning of each recording on a video tape easily and quickly.
- 10** The 16:9 wide-screen recording and playback.
- 11** Self-diagnosis.

## Other features



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

When the "OK" button is pressed, a display occurs on the TV screen of the current time or the tape counter and the volume of tape remaining, the date, year and day of the week, the programme channel and the operation mode of the video recorder. The tape counter and the volume of tape remaining appear only while a tape is loaded. After three seconds the clock display or the tape counter and the volume of tape remaining will only remain. If you press the "OK" button once again within three seconds the clock display changes to the tape counter and the volume of tape remaining or vice versa. Press the "OK" button again to remove the display from the TV screen.

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

### Digital Tape Counter/The Volume of Tape Remaining

The Digital Tape Counter and the volume of tape remaining can be displayed on the video recorder's display or on the TV screen instead of the time by repeatedly pressing the "CLK/CNT" button while a tape is loaded.

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

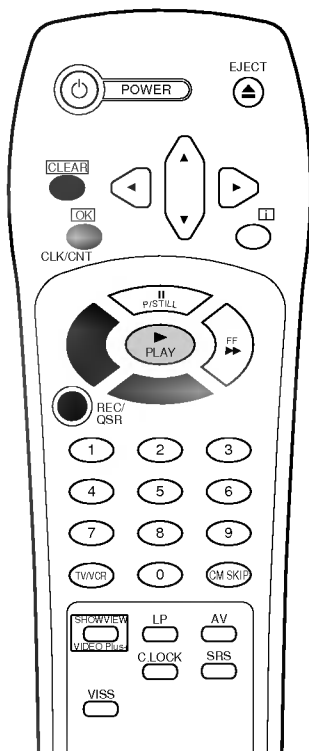
To set the counter to 0:00:00 press the "CLEAR" button.

The volume of tape remaining, gives the volume remaining on the tape in the mode currently set (i.e. standard play (SP) or long play (LP) (N408Y)).

### The memory stop facility

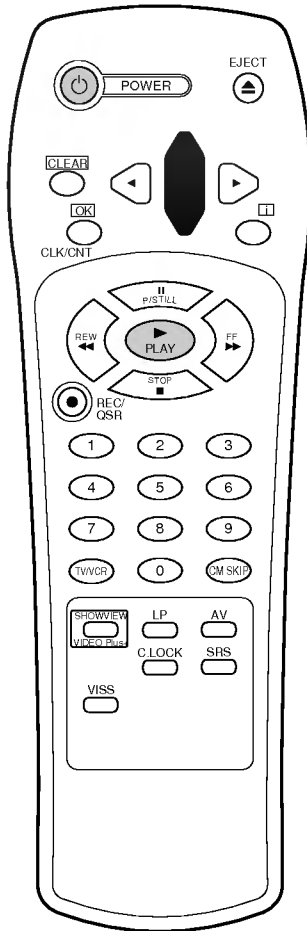
Memory Stop automatically stops a tape when the tape counter is 0:00:00. This feature may be used to return the tape to a pre-selected position immediately after making a recording, or to repeatedly playback a portion of a tape.

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





## Other features



### Tracking Controls

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

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

A.TRK is shown on the video recorder's display.

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

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

When you change a video cassette, the automatic tracking will always be switched on again.

### Automatic Playback

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

Automatic Playback carries out the following procedures:

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

At the end of the tape, it automatically rewinds.

The tape is ejected automatically.

The video recorder switches itself off.

### Automatic Memory Power Shut-Off

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

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

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

### Automatic Switch Off

The video recorder will switch itself off after 8 minutes when not receiving a TV signal. This will occur when TV broadcasts have finished.

## Other features

### The Child Lock

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

**1** Press the "C.LOCK" button. "🔒" appears on the video recorder's display.

The control buttons on the front of the video recorder are inoperative (except for "STOP/EJECT"). The video recorder can be controlled only from the handset.

**2** To switch off the locking, press "C.LOCK" button again. "🔒" disappears on the video recorder's display.

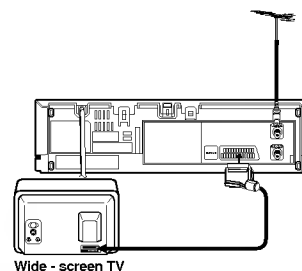
### 16:9 Compatibility (Wide - screen TV)

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

Select the required position in the "SET-UP" menu as described on page 10:

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

When you set to "16:9 AUTO", the video recorder will be automatically played back the wide-screen programmes as wide, the normal programmes as normal.



#### NOTE:

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

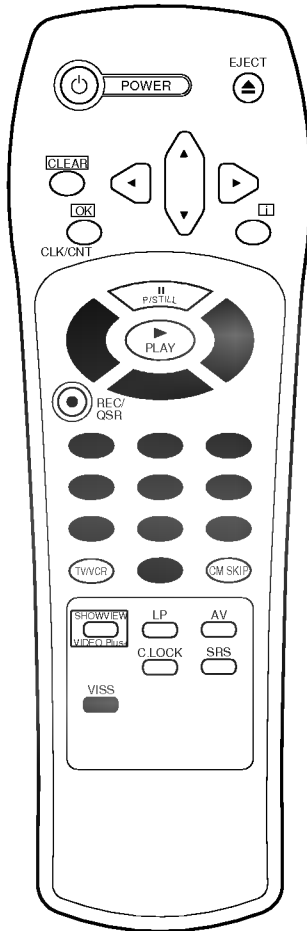
### Self-Diagnosis

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

These error messages will be shown on the video recorder's display or on the TV screen.

STATUS OF DISPLAY	SOLUTION
no TAB	Insert a cassette with it's safety intact.
PLEASE CHECK ANTENNA CONNECTION !	Connect the video recorder to your TV aerial and TV set.
DUST ON THE HEADS !	Try to clean the video head.

## Other features



### The VHS Index Search System (VISS)

VISS allows you to find the beginning of each recording on a tape easily and quickly. The video recorder automatically puts an index mark on the tape whenever you start a recording, and the VISS searches for these index marks.

#### AUTOMATIC VISS MARKING

At the beginning of each recording, a VISS mark is recorded automatically on the tape. This is indicated by VISS MARK appears on the video recorder's display.

#### VISS SCANNING

A VISS scan gives you a quick overview of the recordings on the video cassette.

To carry out a VISS scan:

- 1 Insert the video cassette.
- 2 Whilst the video recorder is on stop or playback press the "VISS" button.
- 3 Press the "FF" or "REW" button to fast forward or rewind the tape.
- 4 The tape winds on to the next VISS mark, switches to playback for a short time, so that you can view the tape at that point, and then winds on to the next VISS mark.
- 5 You can switch off the VISS scan at any time by pressing the "VISS" button or "STOP" button.

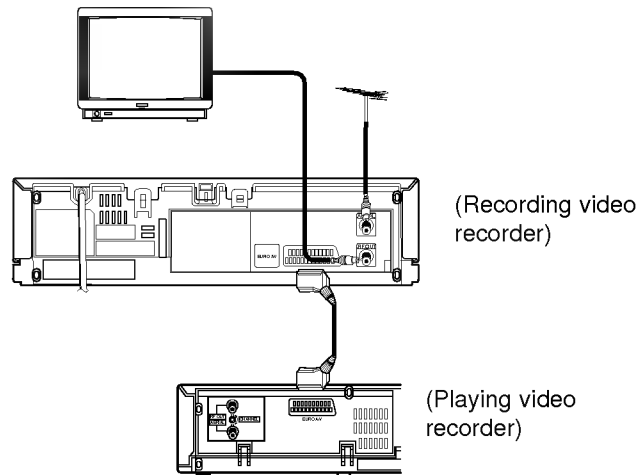
#### VISS SEARCHING

A VISS search is very similar to a VISS scan. Here you enter the desired mark with the number buttons. For example, if you want to find the fifth mark after (on fast forward) or before (on rewind) the present tape position, you enter 05. The VISS marks are not numbered, but the video recorder counts the marks during the winding and will switch to playback as soon as the entered number is reached.

To carry out a VISS search:

- 1 Insert the video cassette.
- 2 Whilst the video recorder is on stop or playback press the "VISS" button.
- 3 Use the number buttons to enter the number at which mark the playback is to start.
- 4 Press the "FF" or "REW" button to fast forward or rewind the tape.
- 5 The tape winds on to the requested VISS mark, and the video recorder switches to playback.

## Copy (Rerecording)



With this video recorder you can make recordings from an external source, such as copying from another video recorder or camcorder.

To do this you will need an EURO scart cable (AV cable).

- 1** A second video recorder (for tape copying) should be connected to the EURO AV scart socket on the back.
- 2** Insert an empty cassette into this video recorder and if you are copying another tape insert it into the second video recorder.
- 3** Set the AV mode for recording video recorder with the "AV" button on the remote control.
- 4** Set the tape speed with the LP button at the recording video recorder. (N408Y)
- 5** Start the playback at the playing video recorder and then start the record with the REC/QSR button on the remote control or at the video recorder.
- 6** Short interruptions can be made with the P/STILL button, e.g. to cut scenes. To continue recording, press this button again.
- 7** End copying with the STOP button and switch all devices off.

### COPYRIGHT LAW

Unauthorized recordings of copyrighted television programmes, films, video cassettes and other materials infringe the right of copyright owners and be contrary to copyright laws.

# 8PL1L ENG.

## Specifications

### General

Power	:	100-240V~, 50Hz.
Power consumption	:	Approx. 19 watts
Video Head system (N408Y)	:	Double azimuth 4 heads, helical scanning system
(N208Y)	:	Rotary 2 heads, helical scanning system
Tape speed	:	23.39 mm/sec (SP mode)/ 11.69 mm/sec (LP mode)
Tape format (N408Y)	:	Tape width 1/2" (12.7 mm high density VHS tape)
Maximum recording time (with E-240 tape)	:	4 hours in SP mode/8 hours in LP mode (N408Y)
Rewind time	:	Approx. 150 sec. (with E-180 tape)
Dimensions (W X H X D)	:	14.2" X 3.5" X 11.7" (360 X 88 X 297 mm)
Weight	:	9.0 lbs. (4.1 kg)
Operating temperature	:	41 °F-95 °F (5 °C-35 °C)
Operating humidity	:	Less than 80 %
Timer	:	24 hours display type

### Video

Television system	:	CCIR standard (625 lines, 50 fields) PAL/SECAM colour signal
Recording format	:	PAL/MESECAM
RF reception	:	PAL(B/G, D/K), SECAM (B/G, D/K)
RF OUT	:	PAL(G/K), SECAM (G/K)
Input level	:	VIDEO IN (SCART type) 1.0 Vp-p, 75 ohm, unbal- anced
Output level	:	VIDEO OUT (SCART type) 1.0 Vp-p, 75 ohm, unbal- anced
Signal to noise ratio	:	More than 43 dBm
RF modulator	:	UHF channels 22 - 68 (adjustable)

### Audio

Input level	:	AUDIO IN (SCART type) 0 dBm, more than 47 kΩ
Output level	:	AUDIO OUT (SCART type) 0 dBm, less than 1 kΩ
Audio track	:	Mono track
Audio frequency response	:	100 Hz-10 kHz (-6/+4 dBm)
Audio signal to noise ratio	:	More than 43 dBm

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

## Before calling for service...

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

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

### Video Head Cleaning

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



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