

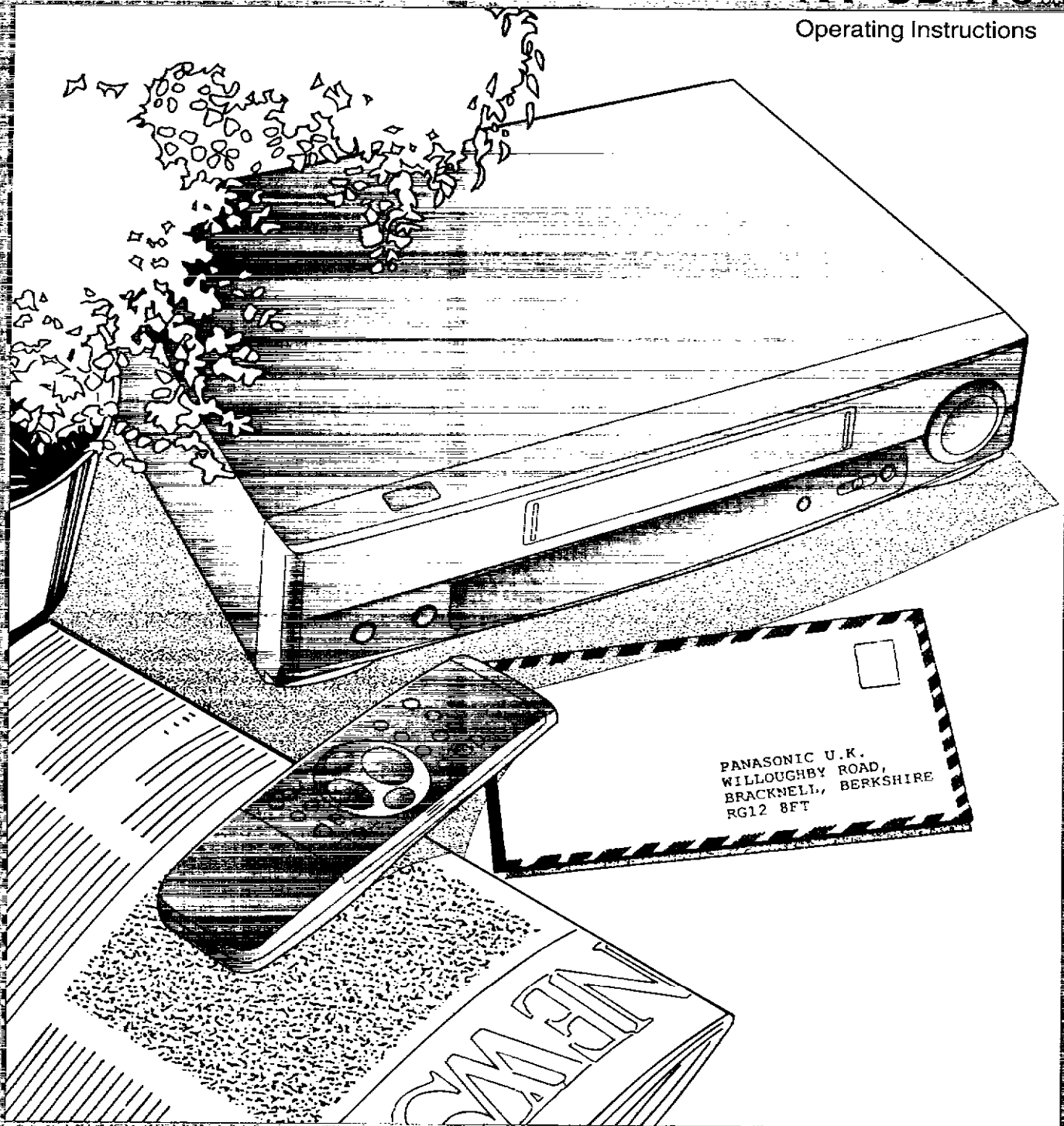
Panasonic

Video Cassette Recorder

NV-SD260B

NV-SD410 Series

Operating Instructions



VIDEO *plus*

VHS
PAL

SUPER DRIVE
INTELLIGENT CONTROL

Before attempting to connect, operate or adjust this product, please read these instructions completely.

TT6593

Dear Customer

May we take this opportunity to thank you for purchasing this Panasonic Video Cassette Recorder.

We would particularly advise that you carefully study the Operating Instructions before attempting to operate the unit and that you note the listed precautions.

Auto Setup

Connect the aerial lead and the mains lead.
(See page 12.)

Turn on the VCR.

Auto Setup is finished.

Video Plus+ Programming System

Programming is now easier than ever: simply enter the PlusCode provided in the programme schedule column carried by newspapers and magazines.

- Video Plus+ and PlusCode are trademarks of Gemstar Development Corp. Video Plus+ system is manufactured under license from Gemstar Development Corporation.

Crystal View Control

Introducing Crystal View Control, and innovative new technology for high picture quality. This technology uses an microprocessor to intelligently control the relationship between the tape heads and circuitry, bringing out the maximum performance of each. The result is consistently optimum picture quality.

PDC (Programme Delivery Control)

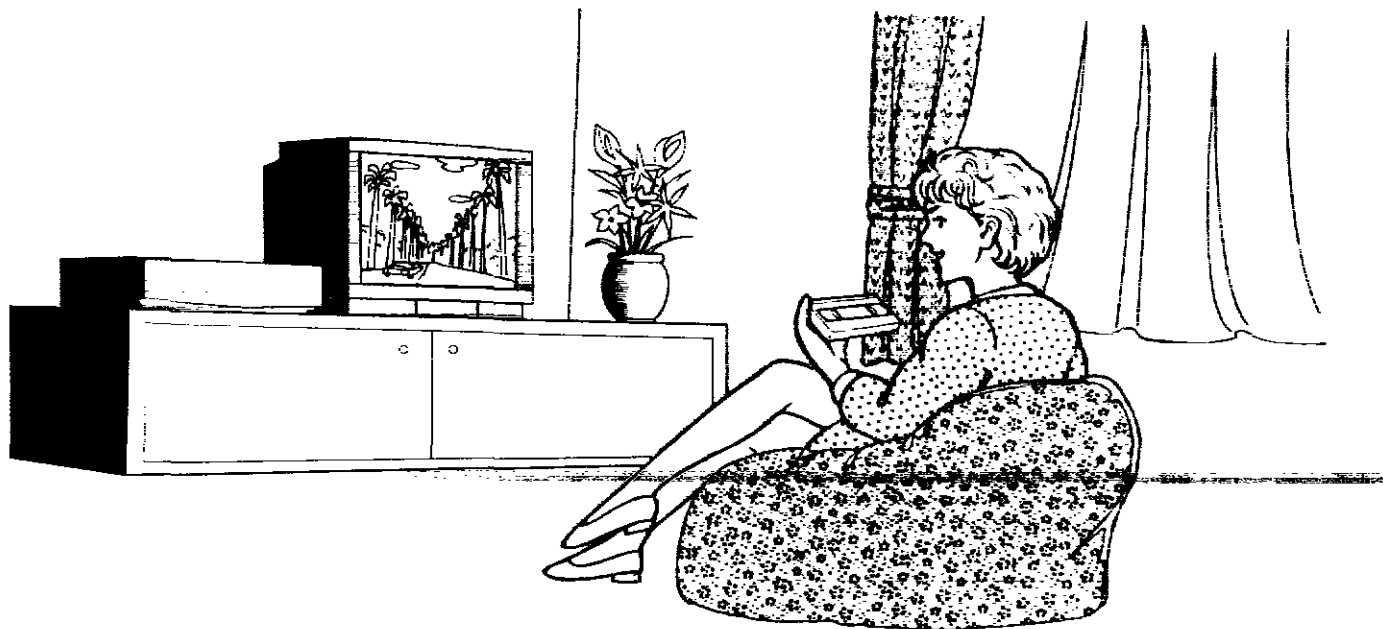
What is PDC?

PDC is a signal system transmitted by TV broadcasters to control the start and stop time of each programme. This signal is used by the VCR to control the start and stop time of programmed timer recordings.

PDC is particularly useful when the broadcaster changes the time for a programme from the published time, the VCR's timer recording start and stop time will be controlled by the broadcaster, e.g. when the programme is delayed or extended. Recording can also be interrupted by the broadcaster, e.g. news flash, and resumed when the programme restarts.

At present PDC transmission does not cover all areas and stations in the UK, please check with the broadcasters in your area for details.

The illustrations shown in this operating instruction use model No. NV-SD410 Series.



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IMPORTANT

Your attention is drawn to the fact that the recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

WARNING



TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

FOR YOUR SAFETY

- DO NOT REMOVE OUTER COVER.
To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

Caution for AC Mains Lead

For your safety please read the following text carefully

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 5 amp fuse is fitted in this plug. Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS 1362. Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below. If in any doubt please consult a qualified electrician.

IMPORTANT


The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

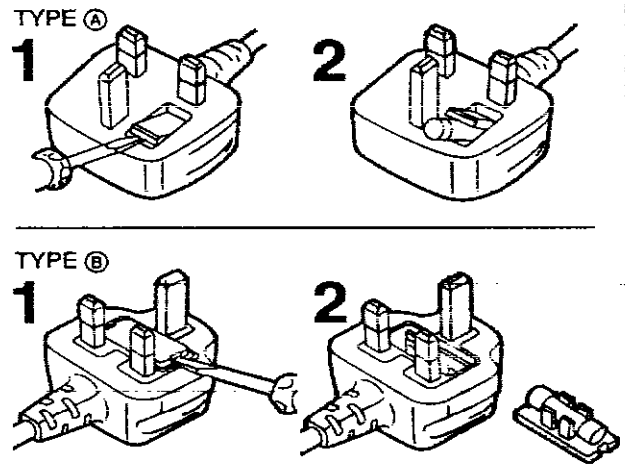
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstance should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol .

How to replace the Fuse

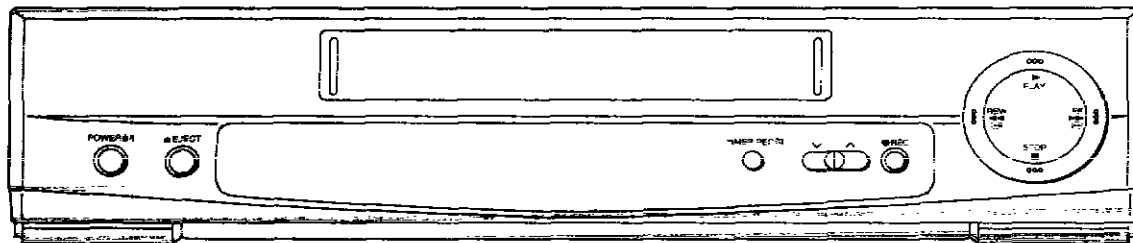
• There are two types of the AC Mains Lead assembly: (A) and (B) as shown below.

- 1 Open the fuse compartment with a screwdriver.
- 2 Replace the fuse and fuse cover.



Unpacking

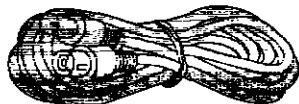
Check and identify the supplied accessories, and then set up this VCR after reading "Setting up".



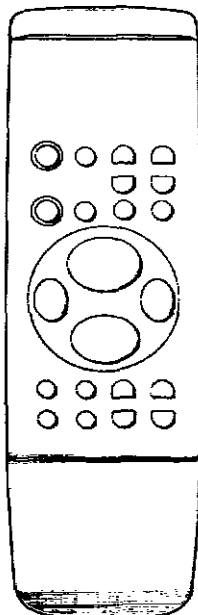
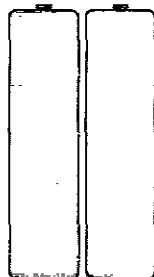
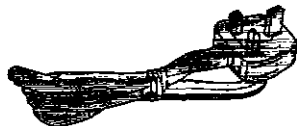
RF coaxial cable for connecting between this VCR and a TV (1 pc.)
VJA0728-A or VJA0963

Batteries for the remote controller (2 pcs.)
UM3 or R6 type

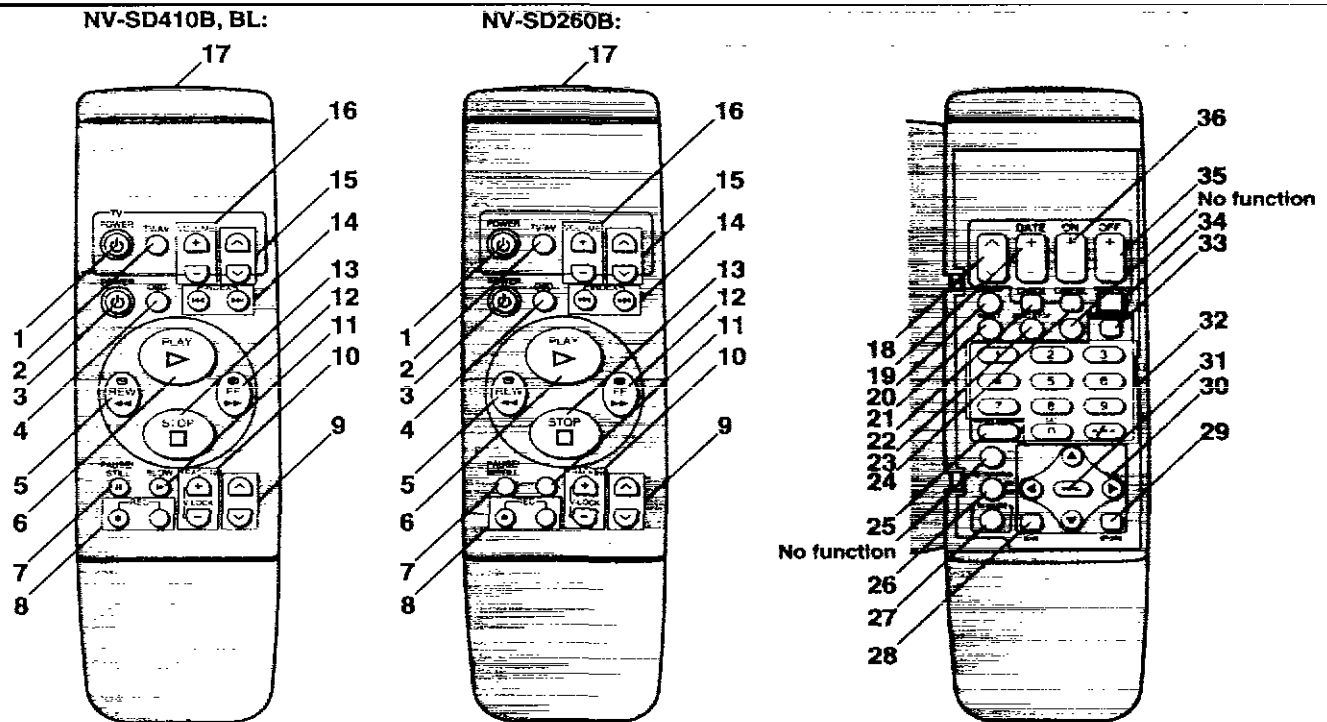
Remote controller (1 pc.)
NV-SD260B: VEQ1863
NV-SD410B, BL: VEQ1867



AC mains lead (1 pc.)
VJA0733



Infra-red Remote Controller



1 POWER (TV)

To switch the TV from on to standby mode or vice versa. In standby mode, the TV is still connected to the mains.

- With some TV models, it may only be possible to switch the TV to standby mode using this button. In this case, use **TV/AV** or **∨ / ∧ (TV)** to switch the TV on.

2 TV/AV

To select the TV input.

3 POWER (VCR)

To switch the VCR from on to standby mode or vice versa. In standby mode, the VCR is still connected to the mains.

4 OSD

For the On Screen Display Function.

5 REW (REWIND)

In the stop mode: To rewind the tape.
 In the playback mode: To search backward.
 In the rewind mode: To obtain high speed picture.
 "◀◀" is lit.

6 PLAY

To start playback. "▶" is lit.

7 PAUSE/STILL

During playback: Still picture.
 During recording: To interrupt recording.

8 REC

To start a recording.
 •Press both buttons simultaneously.

9 ∨ / ∧ (VCR)

To select the required programme position (TV station) of the VCR.

10 TRACKING/V-LOCK

For manual tracking adjustment

The + and - buttons are used to adjust the tracking when, for example, noise bars on the picture are better removed manually than by the automatic digital tracking control.

Press both buttons together to return to automatic digital tracking control.

For slow tracking adjustment
 (Only for NV-SD410B, BL)

When noise bars appear during Still or Slow playback, switch over to slow playback and adjust with the + or - button to reduce the noise bars.

For vertical locking adjustment

Use the + and - buttons to minimize any vertical jitter during still-picture playback.

- Even after manual adjustment, noise bars or vertical jitter may not be eliminated completely, especially for tapes recorded on another VCR. This is not malfunction.

11 NV-SD260B:

No function

NV-SD410B, BL:

SLOW

For the slow motion playback function. "◻▶" is lit.

12 FF (FAST FORWARD)

In the stop mode: To fast forward the tape.
 In the playback mode: To search forward.
 In the fast forward mode: To obtain high speed picture.

"▶▶" is lit.

13 STOP

To stop any playback or recording.

14 INDEX

For the index search function.

15 \checkmark \wedge (TV)

To select the required programme position (TV station) of the TV.

16 VOLUME

To adjust the volume of the TV.

17 Infra-red Transmitter

18 \checkmark \wedge

To programme a timer recording.

19 DATE

To programme a timer recording.

20 DISPLAY

To change the indication on the VCR Display.

→ Clock → Counter → Remaining Tape Time →

21 RESET

To reset the tape counter (elapsed time) to "0:00.00".

- The tape counter is automatically reset to "0:00.00" when a video cassette is inserted.

22 CHECK

To check timer programmes.

23 ZERO STOP

For the zero stop function.

24 CANCEL

To cancel the settings made for a timer recording.

25 INPUT SELECT

To select the A1 or A2 external recording source.

26 RECORDING SP/LP

To select the tape speed desired for recording.

SP gives the best picture quality.

LP gives the longest recording time.

27 TV SELECT

To set the remote controller for operation of the TV.

28 EXIT

To make On Screen Display disappear on the TV screen.

29 STORE

To make selections from On Screen Display.

30 \blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright

To make selections from On Screen Display.

31 MENU

To make On Screen Display **Main Menu** appear on the TV screen.

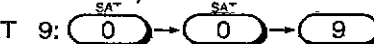
32 Programme Position Selector Buttons

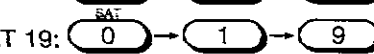
- To select the programme positions (1-99).

9: 

19: 

- To select the satellite programme positions (SAT 1-SAT 99)

SAT 9: 

SAT 19: 

- To enter a PlusCode.

33 VIDEO PLUS+

For the Video Plus+ programming.

34 TIMER REC

To turn the timer recording function on and off.

is lit or not lit.

Once operating timer recording function, the normal VCR operation is not possible unless this button is set to off.

35 OFF

To programme a timer recording.

36 ON

To programme a timer recording.

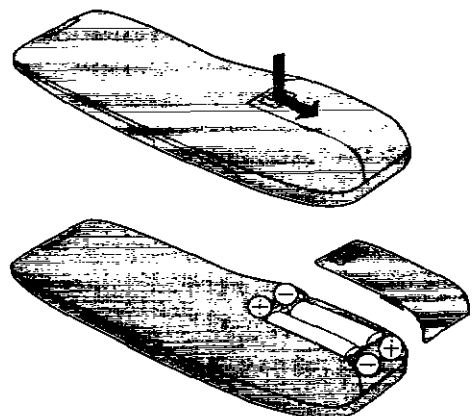
Power Source for the Remote Controller

The remote controller is powered by 2 "AA", "UM3" or "R6" size batteries. The life of the batteries is about one year, although this depends on the frequency of use.

Precautions for Battery Replacement

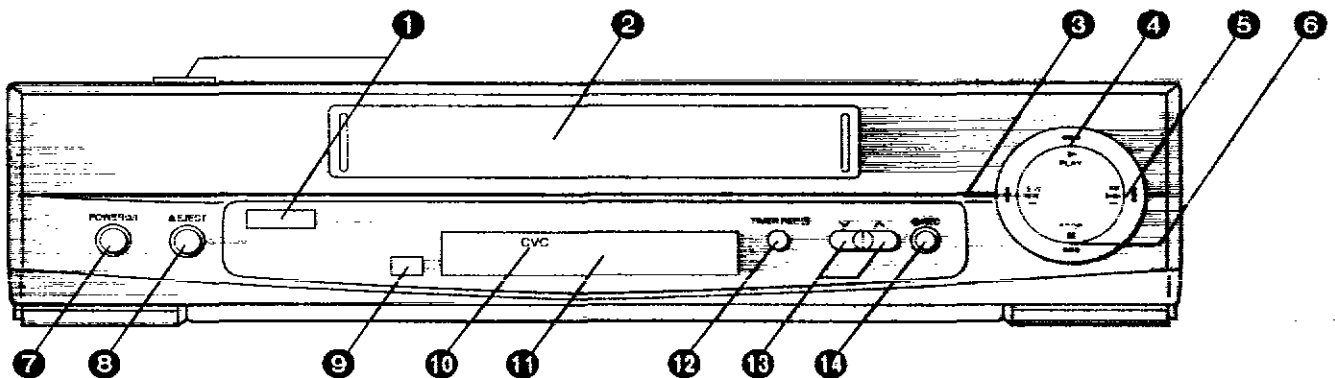
- Load the new batteries with their polarity (\oplus and \ominus) aligned correctly.
- Do not apply heat to the batteries, or an internal short-circuit may occur.
- If you do not intend to use the remote controller for a long period of time, remove the batteries and store them in a cool and dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new battery together, and never use an alkaline battery with a manganese battery.

Installing the Batteries

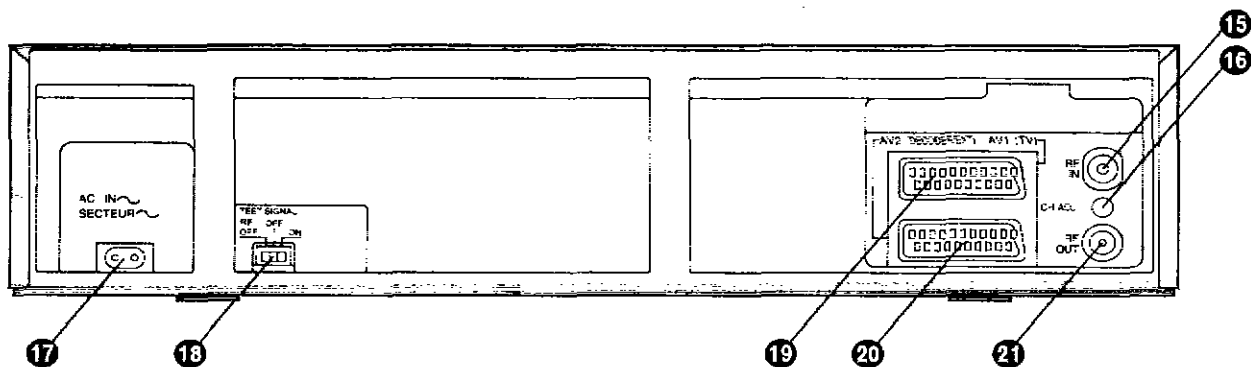


Controls and Connection Sockets

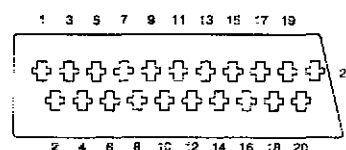
This gives a detailed explanation of the function of each button, switch and connection socket.



- 1 Infra-red Signal Transmitter**
The satellite receiver control signal are transmitted from here to the satellite receiver.
- 2 Cassette Compartment**
Insert a video cassette here.
- 3 REW (REWIND)**
In the stop mode: To rewind the tape.
In the playback mode: To search backward.
In the rewind mode: To obtain high speed picture.
"◀◀" is lit.
- 4 PLAY**
To start playback. "▶" is lit.
- 5 FF (FAST FORWARD)**
In the stop mode: To fast forward the tape.
In the playback mode: To search forward.
In the fast forward mode: To obtain high speed picture.
"▶▶" is lit.
- 6 STOP**
To stop any playback or recording.
- 7 POWER**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still connected to the mains.
- 8 EJECT**
To eject a video cassette.
- 9 Infra-red Remote Control Receiver Window**
- 10 CVC (Crystal View Control) Indicator**
Indicates that the CVC function is active.
This indicator is always lit when the power is on.
- 11 Display**
- 12 TIMER REC**
To turn the timer recording function on and off.
☐ is lit or not lit.
Once operating timer recording function, the normal VCR operation is not possible unless this button is set to off.
- 13 V ^ ^**
To select the required programme position (TV station).
- 14 REC**
To start a recording.



- 15 RF IN**
To connect to the external aerial.
- 16 CH ADJ.**
To adjust the RF transmitting channel 30–42.
- 17 AC IN~**
To connect to the main power supply.
- 18 RF OFF/TEST SIGNAL**
RF OFF: Set to this position when the VCR is connected to the TV via the 21-pin scart cable.
TEST SIGNAL OFF:
Set to this position when the VCR is connected to the TV via the RF coaxial cable only.
TEST SIGNAL ON:
Set to this position when tuning the TV into the VCR.
The test signal is transmitted on channel 36 initially.
- 19 AV1**
This 21-pin scart terminal carries input and output signals for both picture and sound. TV sets equipped with a similar socket can be connected here.
This is also called Scart
Peritel
Euro Connector
Euro AV



- | | |
|---------------------|--------------------|
| 1 AUDIO OUTPUT | 13 RED GROUND |
| 2 AUDIO INPUT | 14 BLANKING GROUND |
| 3 AUDIO OUTPUT | 15 RED |
| 4 AUDIO GROUND | 16 BLANKING GROUND |
| 5 BLUE GROUND | 17 VIDEO OUTPUT |
| 6 AUDIO INPUT | 18 VIDEO INPUT |
| 7 BLUE | 19 VIDEO OUTPUT |
| 8 SWITCHING VOLTAGE | 20 VIDEO INPUT |
| 9 GREEN GROUND | 21 GROUND |
| 10 No connection | |
| 11 GREEN | |
| 12 No connection | |

Caution: RGB reservation for only E/E operation when connecting the Pay TV decoder

- 20 AV2**
To connect to a decoder, another VCR or a satellite receiver.
• Only used as the input socket.
- 21 RF OUT**
To connect to the aerial terminal on a TV set.

Note:
A satellite receiver should normally be connected to AV1 terminal.
AV2 can be used for connection to satellite receiver, but **AV2 Connection** on the MENU must first be set to VCR/SAT. (See page 39.)

Setting Up

Connections

This tells you how to connect with an aerial, TV, etc.

Tuning the TV to your VCR

The VCR supplies a signal to the TV set via the RF coaxial cable on channel 36 of the UK broadcasting system. Your TV must be tuned into this channel in order to view the VCR playback picture.

If the connection to the TV includes the 21-pin scart cable, the playback picture can be viewed by selecting AV on your TV. The RF coaxial cable must still be connected as shown on page 12, but the TV need not be tuned to channel 36.

Auto Setup

When the VCR is turned on after connecting the aerial lead and the mains lead, Auto setup (Auto tuning and Auto clock setting) starts.

Satellite Settings

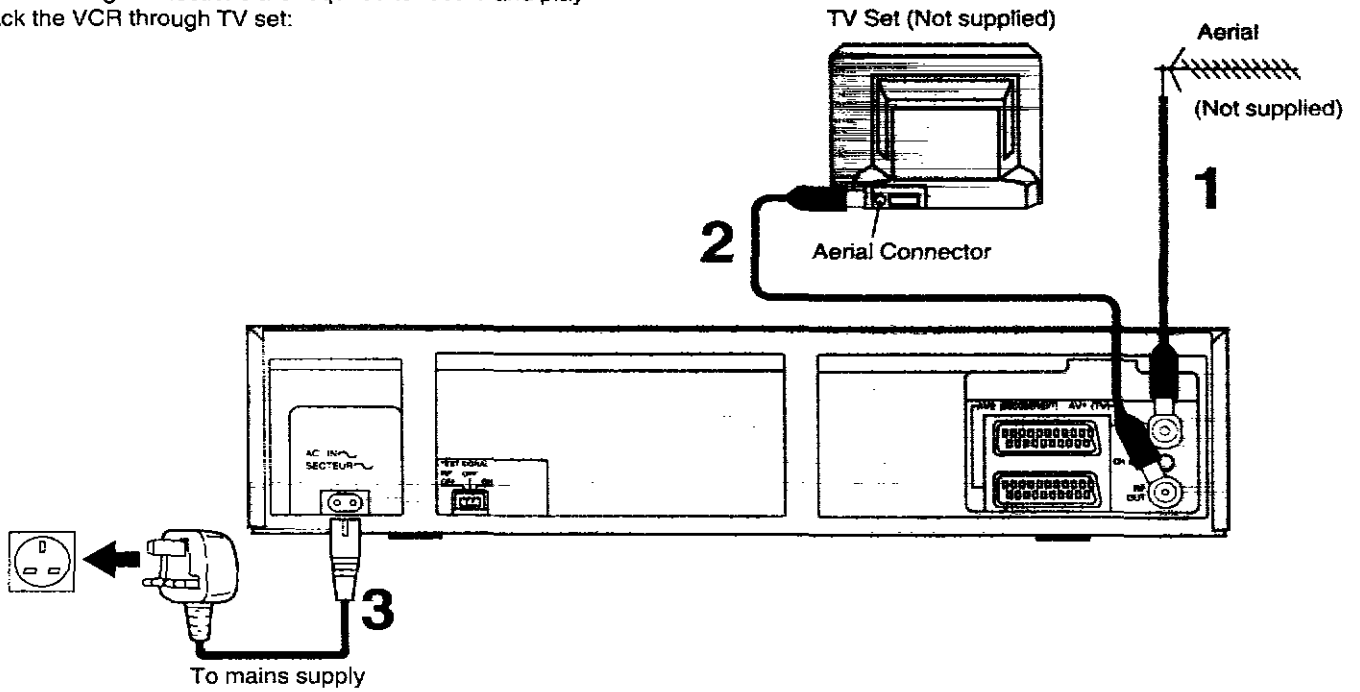
Satellite Setting
Preset Type
Teaching the VCR your satellite channels
How to select the satellite channel

Connections

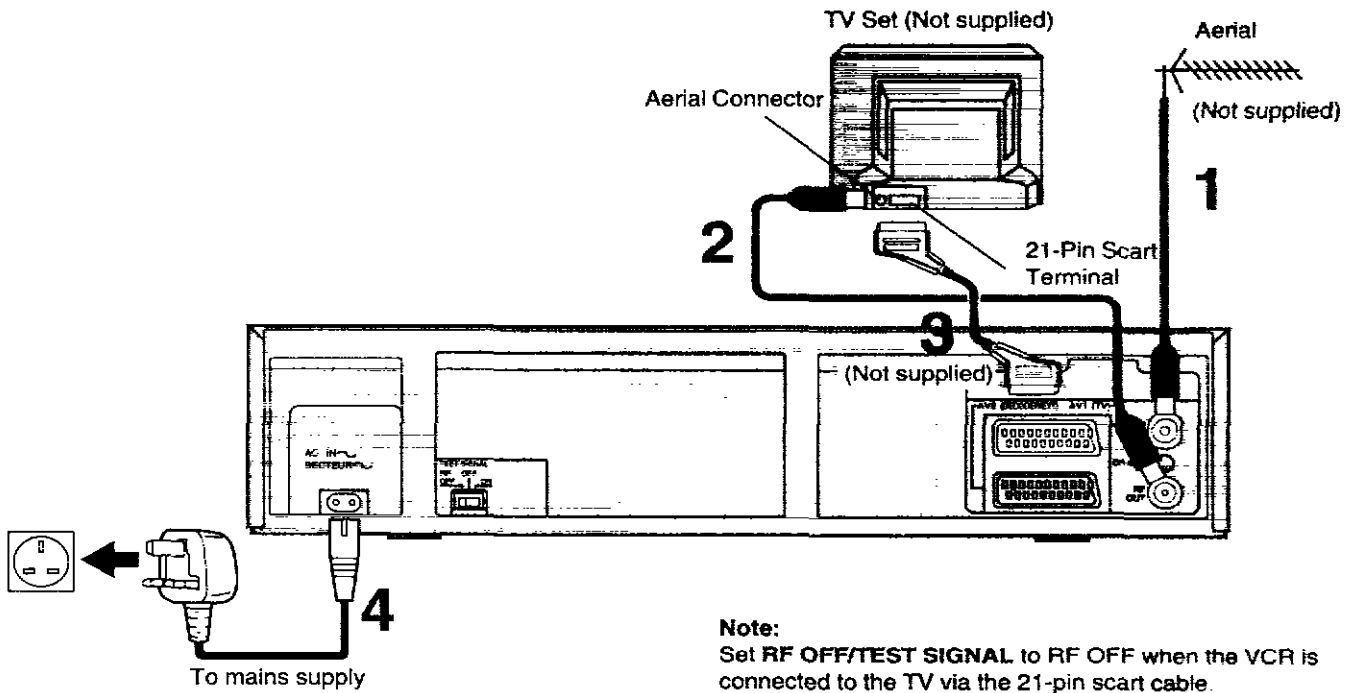
This tells you how to connect with an aerial, TV, etc.

Basic Connections

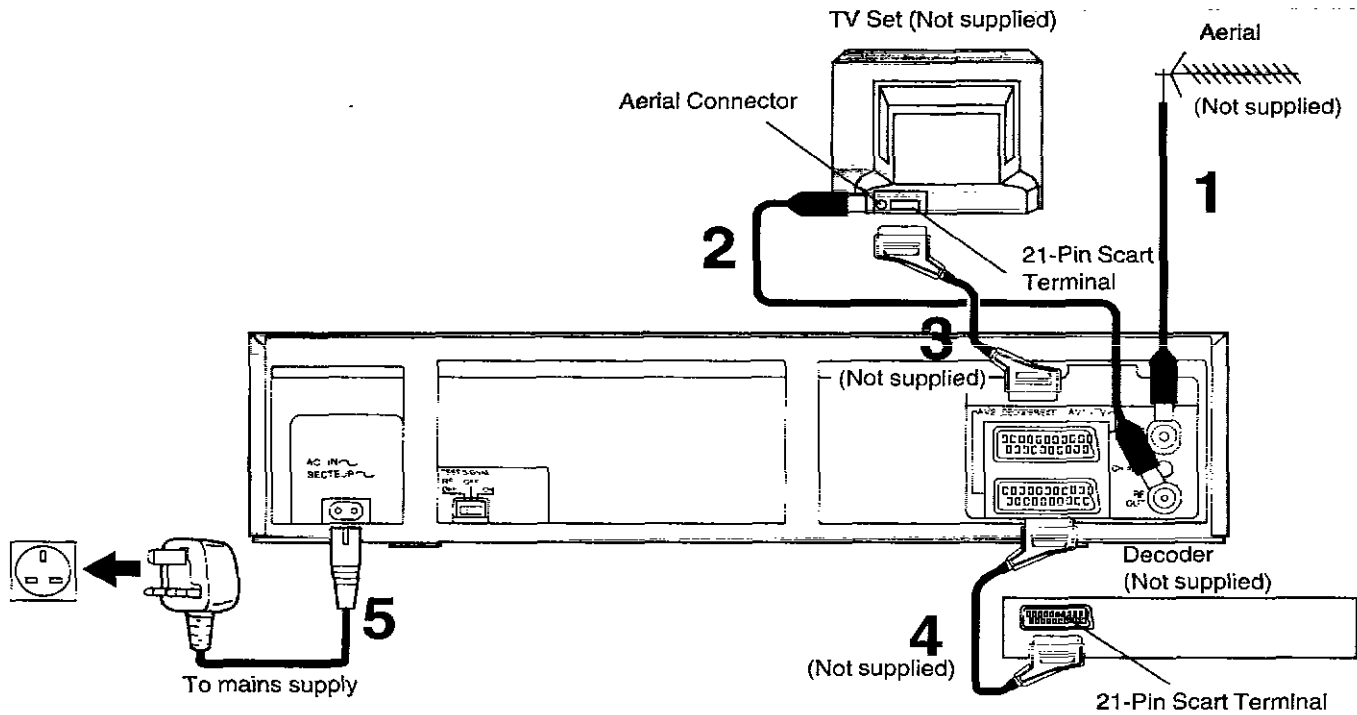
The following connections are required to record and play back the VCR through TV set:



Connection to a TV Set with 21-Pin Scart Terminal



Connection to a Decoder



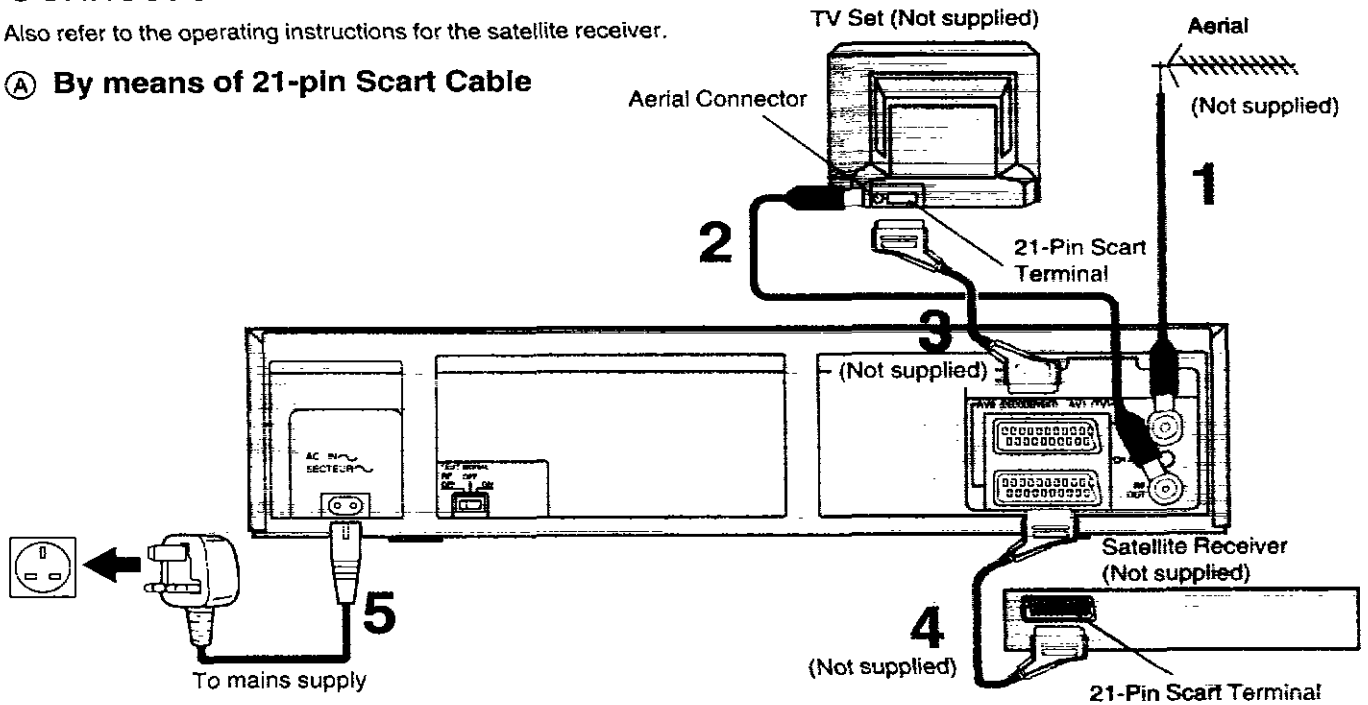
Notes:

- "RGB" is an abbreviation for "RED/GREEN/BLUE" signals. If the TV with RGB input capability is connected to AV1 and the unit with RGB output capability is connected to AV2, the TV can receive RGB signal from the unit through the VCR.
- Use full-wired 21-pin AV cables for the connection.
- Selection of RGB or normal video output is done by the external equipment connected to AV2 terminal.
- Set **RF OFF/TEST SIGNAL** to RF OFF when the VCR is connected to the TV via the 21-pin scart cable.

Connection to a Satellite Receiver

Also refer to the operating instructions for the satellite receiver.

A By means of 21-pin Scart Cable

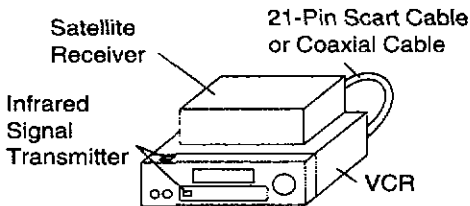


Notes:

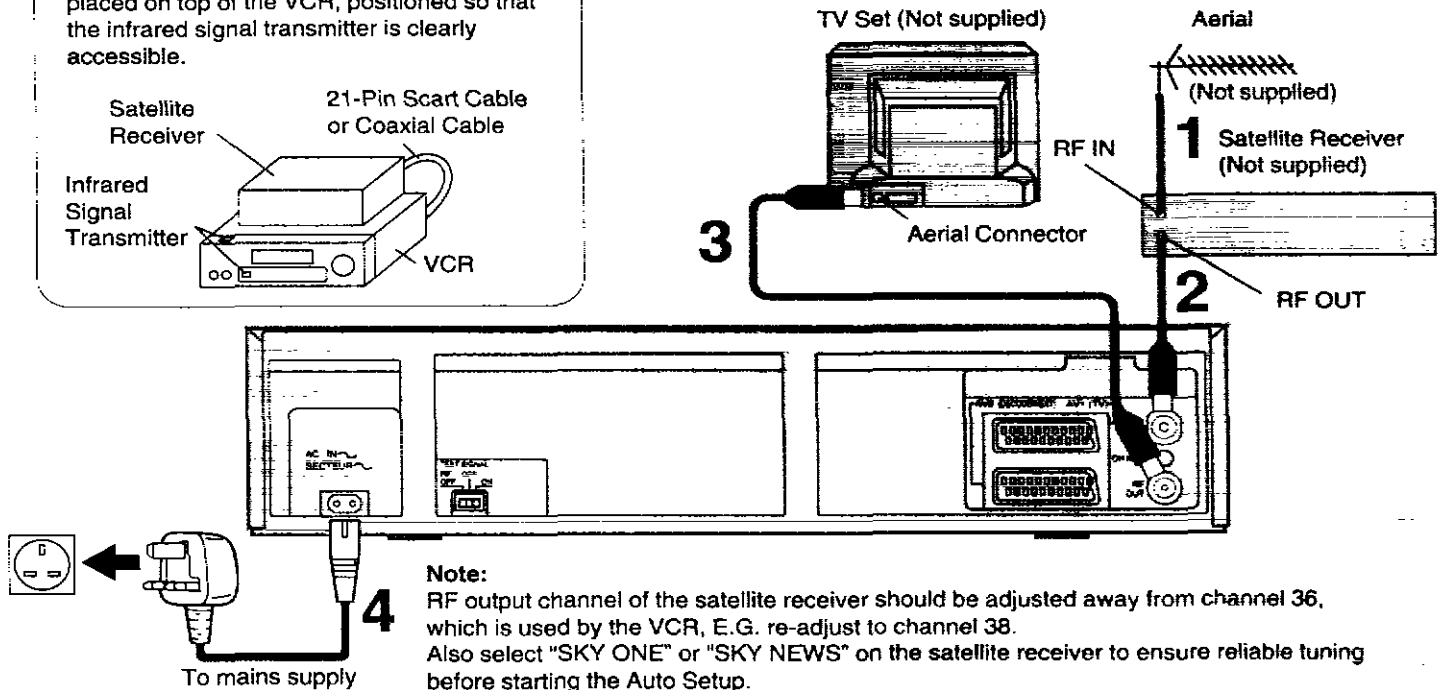
- Set RF OFF/TEST SIGNAL to RF OFF when the VCR is connected to the TV via the 21-pin scart cable.
- Also refer to the operating instructions for the satellite receiver when connecting a decoder.

How to Install

We recommend that the satellite receiver be placed on top of the VCR, positioned so that the infrared signal transmitter is clearly accessible.



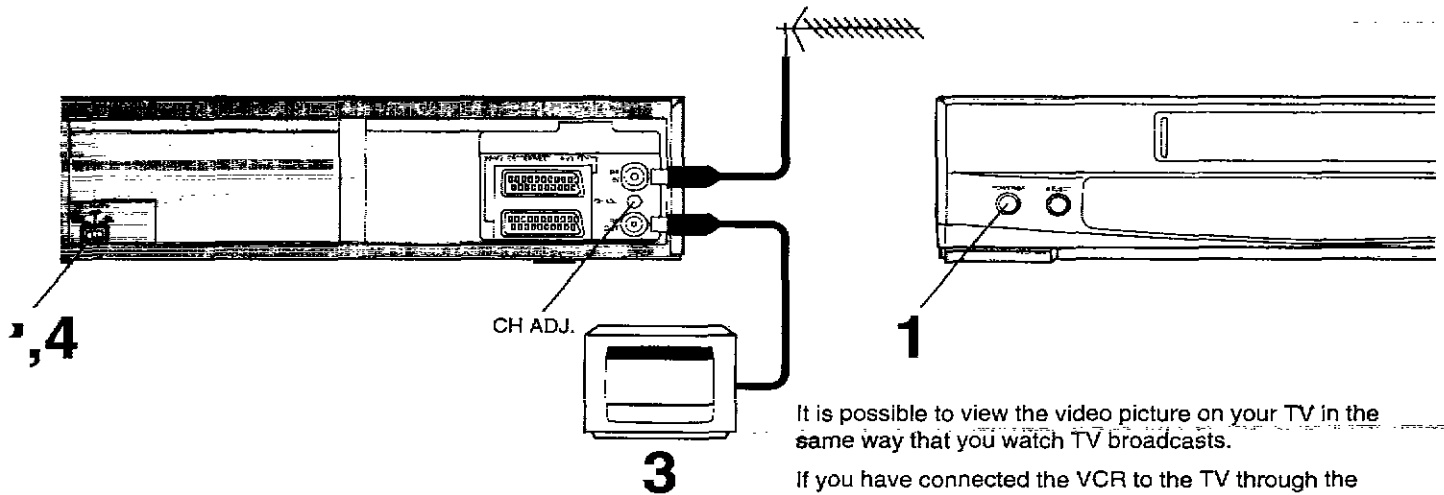
B By means of RF Coaxial Cable



Note:

RF output channel of the satellite receiver should be adjusted away from channel 36, which is used by the VCR, E.G. re-adjust to channel 38. Also select "SKY ONE" or "SKY NEWS" on the satellite receiver to ensure reliable tuning before starting the Auto Setup.


Tuning the TV to your VCR




Preparations

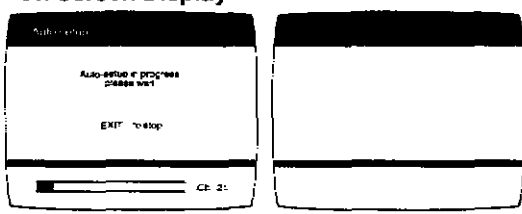
- Turn on the TV.
- Refer to the operating instruction of the TV set and carry out tuning/preset procedure.

Operations

- 

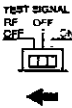
Turn on the VCR.
- 

To generate a test pattern, set **RF OFF/TEST SIGNAL** to **TEST SIGNAL ON**.
- On Screen Display**



(During Auto setup) (After Auto Setup)

Set the TV to an unused position which you wish to use for your video playback.

 - Tune the TV until the test pattern appears on the screen.
 - On Panasonic TV the programme number 0 should be selected to obtain best performance.
 - When the VCR is turned on after connecting the aerial lead and the mains lead, Auto setup (Auto tuning and Auto clock setting) starts. (See next page.)
- 

Set **RF OFF/TEST SIGNAL** to **TEST SIGNAL OFF**.

Note:

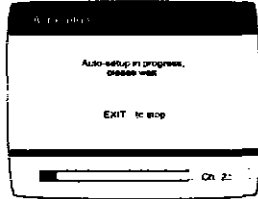
The test signal is transmitted on channel 36 of the UK broadcasting channels. If you are encountering interference from another broadcast on the video channel, you may readjust to a free channel (30-42) by using the **CH ADJ.** screw which is located on the rear of the VCR. Please note that if the **CH ADJ.** screw is used then you will have to retune your TV to the test signal as in item 2 to 4 above.

Auto Setup

Auto Setup

When the VCR is turned on after connecting the aerial lead and the mains lead, Auto setup (Auto tuning and Auto clock setting) starts.

On Screen Display



- The Auto setup is searching for TV station from minimum to maximum and memorizing the data for every programme position.
- The Auto setup takes two or more minutes to complete the search for TV station and the clock setting.
- If the clock setting screen appears after auto setup has been completed, refer to page 40 and proceed with the setting.

Note:

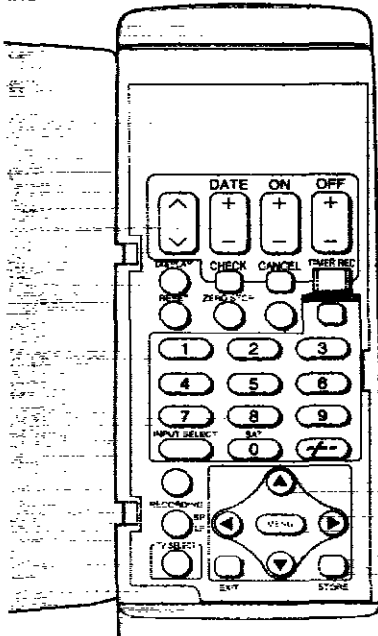
If VCR is not correctly set by Auto setup, see **Various Settings** on pages 34–37 and 40.

Viewing the TV station list

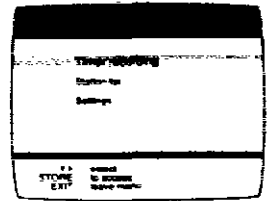
Use the following steps to confirm that the Auto setup is correctly set.

Preparations

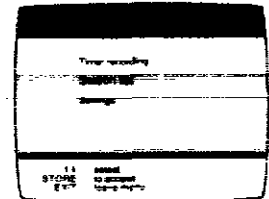
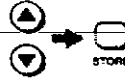
- Confirm that the TV is on and the VCR viewing channel is selected.
- Turn on the VCR.



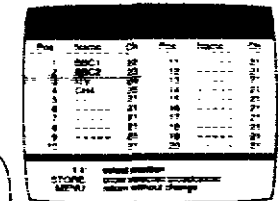
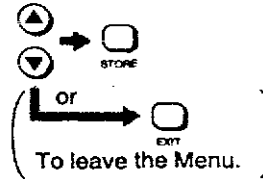
1 Press **MENU**.



2 Select **Station list**.



3 Select the desired TV station, if you want to view the broadcast.



The station names have been entered and set correctly.

When the station names have not been correctly entered and set

Auto setup is completed.

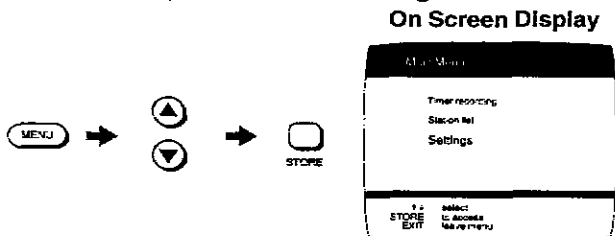
Perform the settings on page 34.

Satellite Settings

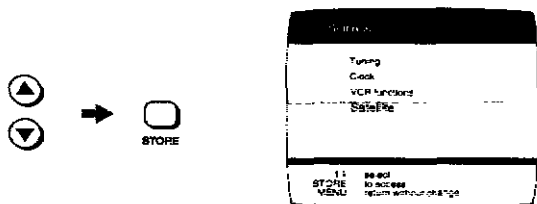
Satellite Setting

If you have connected a satellite receiver, you must perform the settings outlined below in accordance with the connection method used.

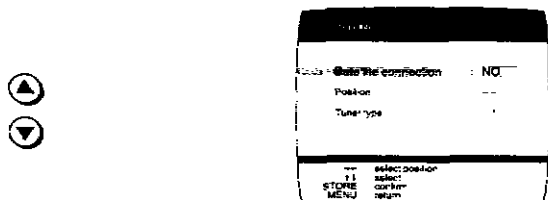
1 Press **MENU**, and then select **Settings**.



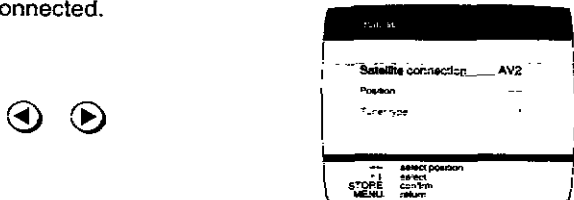
2 Select **Satellite**.



3 Select **Satellite connection**.



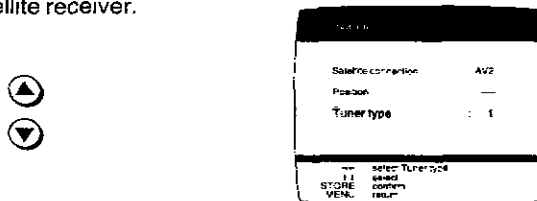
4 Select the position where the satellite receiver is connected.



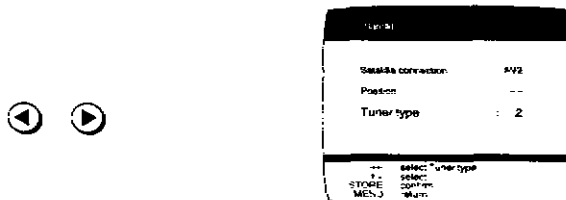
- No: When the satellite receiver is not connected to the VCR.
- RF: When the satellite receiver is connected to RF IN socket of the VCR.
- AV1: When the satellite receiver is connected to AV1 socket of the VCR.
- AV2: When the satellite receiver is connected to AV2 socket of the VCR.

•The **Position** item is also automatically set when **RF** has been selected, and cannot be changed here. To change position of satellite channel, refer to **Manual Tuning Procedure** on page 34.

5 Select **Tuner type** by referring to the enclosed satellite receiver listing to find the tuner type number for your satellite receiver.



6 Enter the tuner type number by using **◀ ▶**.



•It is also possible to select by pressing numeric button.

7 Press **STORE**, and then press **EXIT**.



Notes:

- The VCR may not be able to control some makes or models of Satellite Receiver, due to the choice of Remote Control coding being beyond our control.
- Check that the satellite receiver can be properly controlled. (Refer to page 19.)

Teaching the VCR your satellite channels

Before proceeding with the Video Plus+ programming, perform the settings given below.

Operations

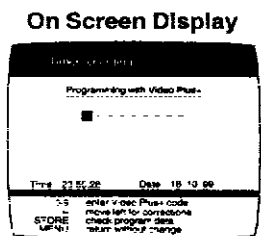
- 1 Switch your satellite receiver on and go through each channel making a note of which channel is on which programme position. Your list look something like this.

Programme position	Channel
1	Sky 1
2	Sky News
3	Sky Movies
4	The Movie Channel
5	MTV
etc.	...

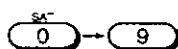
- 2 Get hold of a Satellite programme listing magazine or a newspaper which gives Video Plus+ codes for satellite channels for that day.

- 3 Chose any programme that will be broadcast on the channel you've assigned to programme position 1 on your satellite receiver (in our example, Sky 1) and make a note of its Video Plus+ code.

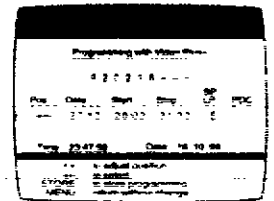
- 4 Press **VIDEO PLUS+** on your remote controller.
 - The Video Plus menu appears on screen display.



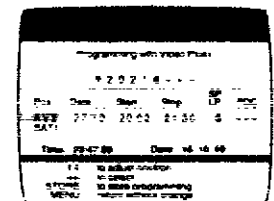
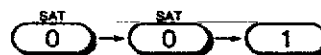
- 5 Input the Video Plus+ code.



- 6 Press **STORE**.
 - "---" appears on the programme position item.



- 7 First you have to select position where satellite receiver is connected, e.g. AV1, position 5 from station list. Key in the number 1 using the remote controller. This is the programme position on the satellite receiver which corresponds with the correct channel (in our example, Sky 1) for the programme you've selected.



- 8 Press **STORE**.
 - VCR will go into timer recording standby mode.

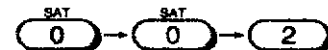


- 9 Press **VIDEO PLUS+** again.



The video plus menu reappears. Repeat the same procedure, but this time selecting any programme that is going to be broadcast on the channel you've assigned to programme position 2 on your satellite receiver. (In our example, Sky News)

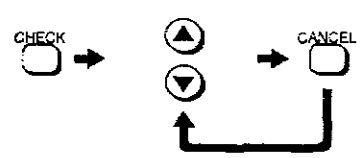
- When you get to step 7 above, key in the number 2.



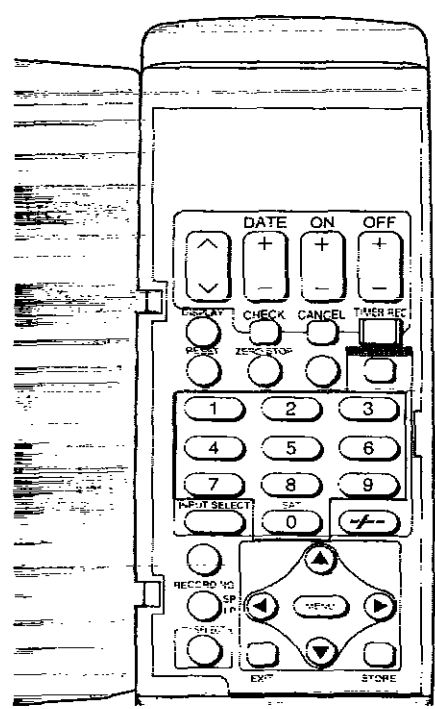
How to Select the Satellite Channel

10 Repeat the procedure again, selecting one programme in turn from each of the channels on your satellite receiver (Sky Movies, The Movie Channel, MTV, Disney Channel, Bravo, UK Gold, etc.). Press **TIMER REC** button to cancel the timer recording standby mode.

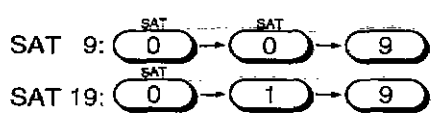
11 Cancel all programming by pressing **CHECK**, **▲ ▼**, and **CANCEL**.



The VCR has now learnt to recognize the individual satellite channels from Video Plus+ codes. In future, when you want to record, say a programme from SKY 1, all you need to do is key in the appropriate Video Plus+ code. The correct satellite channel, in this case, will automatically appear in the on screen display—you don't have to enter it manually.



Press the numeric buttons on the remote controller.



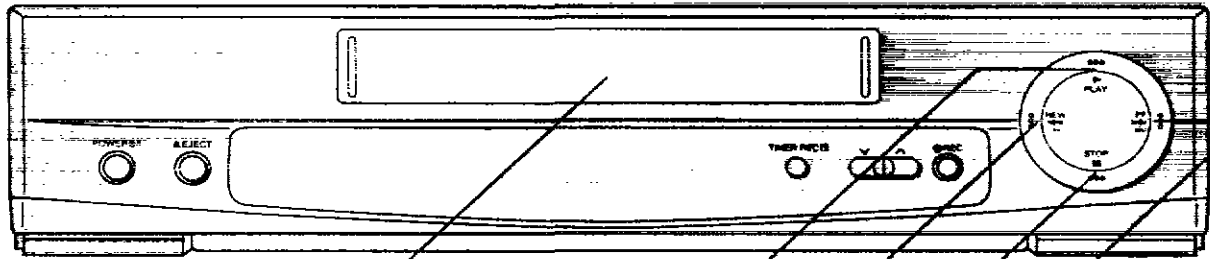
- There will be a slight delay after pressing a button before channel change occurs. This is due to signal conversion.
- The range of satellite channels available for selection is 1 through 99.
- With some satellite receivers, it is not possible to select satellite channels up to 99.
- With some satellite receivers, it is not possible to select any more channels beyond the highest number of the channels which can be selected by the satellite receiver if that number is 99 or less.
- With some satellite receivers, it is necessary to leave a short interval after selecting one channel before attempting to select another channel.
- If the display on the satellite receiver fails to indicate the channels, refer to the operating instructions of the satellite receiver and follow the procedure for displaying the channels.

Basic Operations

Playback

Manual Recording

Playback



1

2

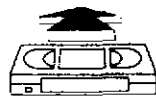
4

6

3

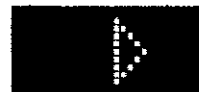
Operations	Display Symbols	
1		Insert a recorded cassette tape.
2		Start viewing the picture.
3		Search forward by briefly pressing FF. • To change back to normal playback, press PLAY.
4		Search backward by briefly pressing REW. • To change back to normal playback, press PLAY.
5		View a still picture. • To continue the normal playback, press PLAY or PAUSE/STILL. (Only for NV-SD410B, BL)
		View the slow motion picture. • To continue the normal playback, press PLAY.
6		Stop viewing the picture.

1



Insert a recorded cassette tape.

2



Start viewing the picture.

3



Search forward by briefly pressing FF.
• To change back to normal playback, press PLAY.

4



Search backward by briefly pressing REW.
• To change back to normal playback, press PLAY.

5

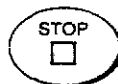


View a still picture.
• To continue the normal playback, press PLAY or PAUSE/STILL.
(Only for NV-SD410B, BL)

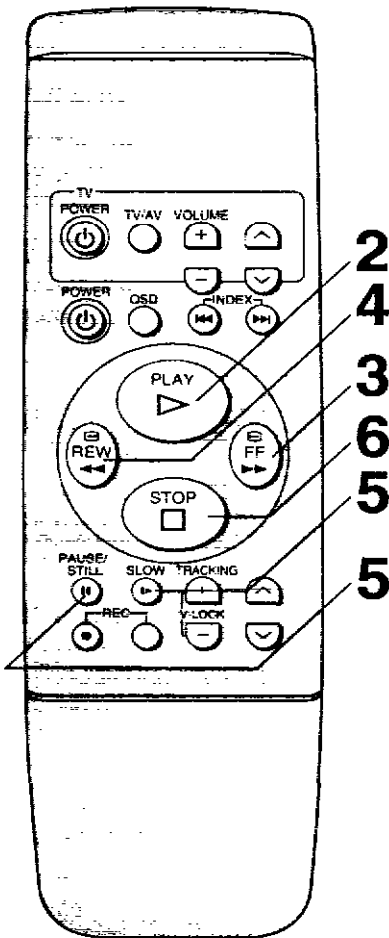


View the slow motion picture.
• To continue the normal playback, press PLAY.

6



Stop viewing the picture.



Other Playback Functions

To obtain High Speed Picture during Fast Forward or Rewind

Keep **FF** pressed during fast forward.
Keep **REW** pressed during rewind.



To return to a Specified Scene

- 1 Press **RESET** to set the counter to 0:00.00.



- 2 After playback, press **ZERO STOP** in the stop mode.
 - The tape will be rewound or fast forwarded to 0:00.00 approximately.

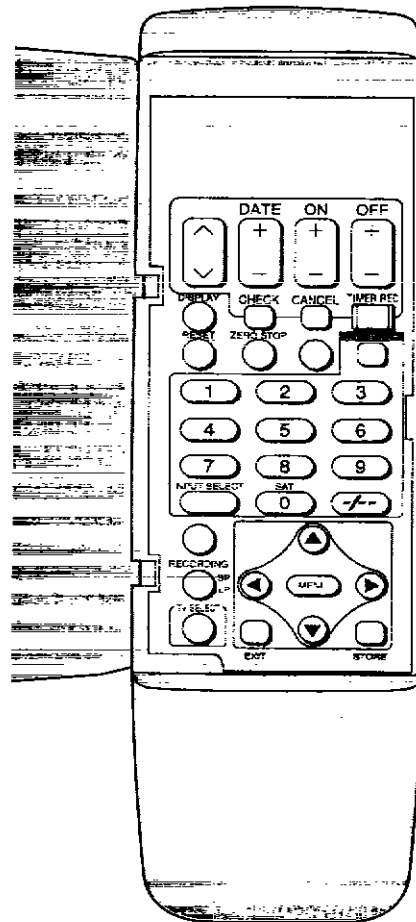


Notes:

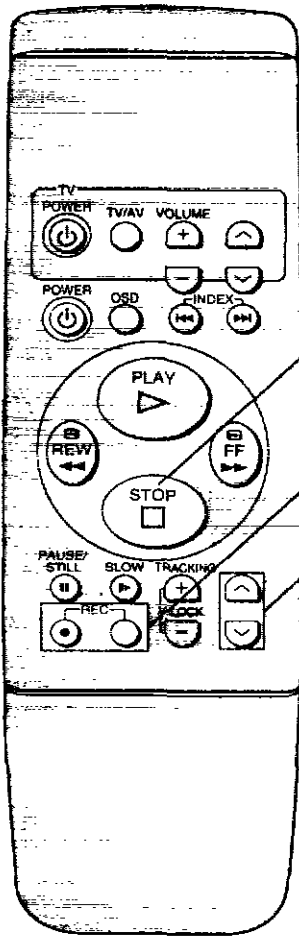
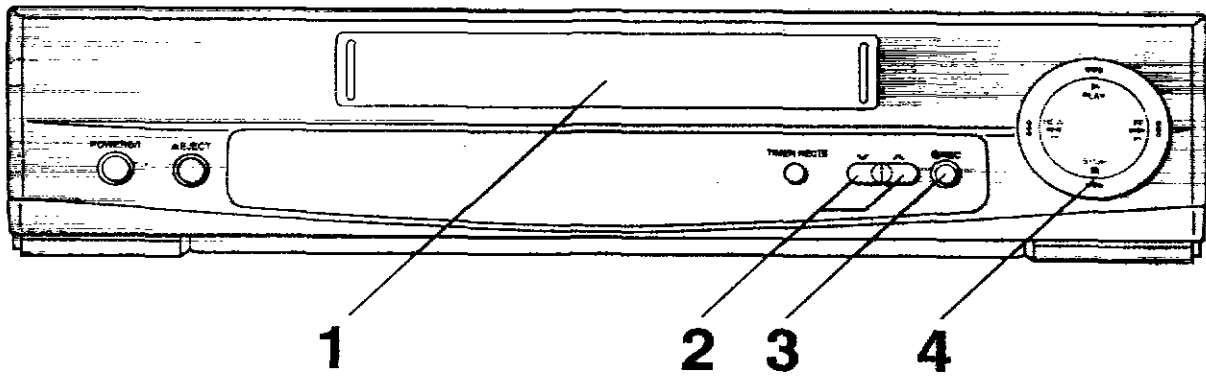
- Cue, review or slow playback will be automatically released after 10 minutes, and still playback after 5 minutes.
- In "LP" mode only:
 1. During any playback mode other than normal playback, the picture may have some noise bars, the colour may be unstable, or a black and white picture may appear.
 2. When playing back a tape which was recorded on another VCR, it may be necessary to adjust the Tracking Control. In some cases the picture quality may still be inferior. This is due to limitation of format.








Only for NV-SD260B:

Depending on the connected television, the noise bar may not be fixed during cue or review playback.



Manual Recording



Operations	Display Symbols
1 	 <p>Insert a cassette tape. • If it has already been inserted, press POWER to turn the VCR on.</p>
2 	 <p>Select TV station.</p>
3 	 <p>Start recording.</p>
4 	<p>Stop recording.</p>

To select the Desired Tape Speed

Press **RECORDING SP/LP** before recording.



SP gives the best picture quality.
LP gives the longest recording time.

To interrupt Recording

Press **PAUSE/STILL** during recording.
Press again to continue recording.



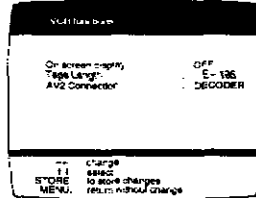
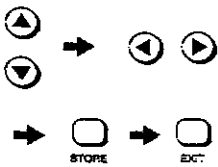
To record One TV Programme while Viewing Another Programme

- 1 Refer to the manual recording operations steps 1 to 3 (page 24).
- 2 Select the TV programme on your TV set you wish to view at the present time.

To display the Approximate Remaining Tape Time

- 1 Select **Tape Length** from On Screen Display and select the corresponding cassette tape length. See page 39.

On Screen Display



- ◀ E-180: For E30, -60, -90, -120 and -180 tapes.
- E-195: For E195 tape.
- E-240: For E240 tape.
- E-260 ▶: For E260 and -300 tapes.

- 2 Press **DISPLAY**.

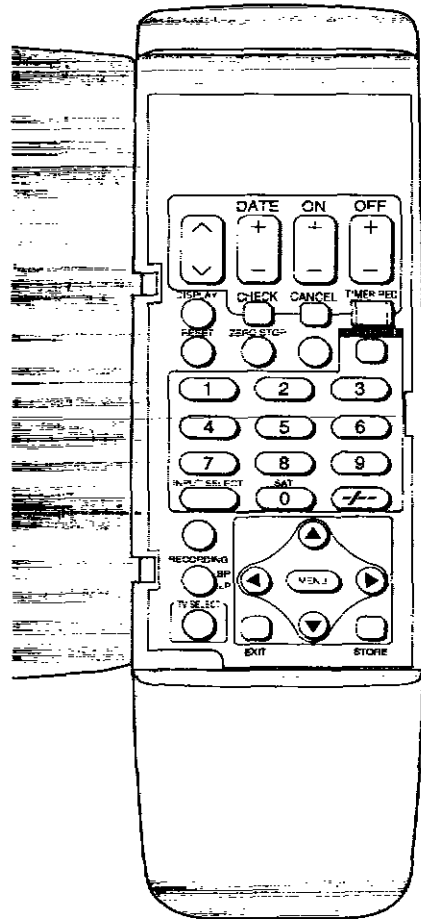


→ Clock → Counter → Remaining Tape Time

- The remaining tape time may not be displayed correctly depending on the tape used.

Notes:

- When a video cassette with a broken off tab is inserted, the "ERR" indication will flash to indicate that recording is not possible.
- The recording pause mode will be automatically released after 5 minutes and be back to the stop mode.



Advanced Operations

Timer Recording

Up to 8 timer programmes can be recorded up to one month in advance by setting the timer.

Editing

Assembly Editing

This enables you to record a new segment immediately after a previously recorded segment.

Other Functions

On Screen Display

NTSC Playback

VHS Index Search System

Other Automatic Functions

Timer Recording

Using On Screen Display

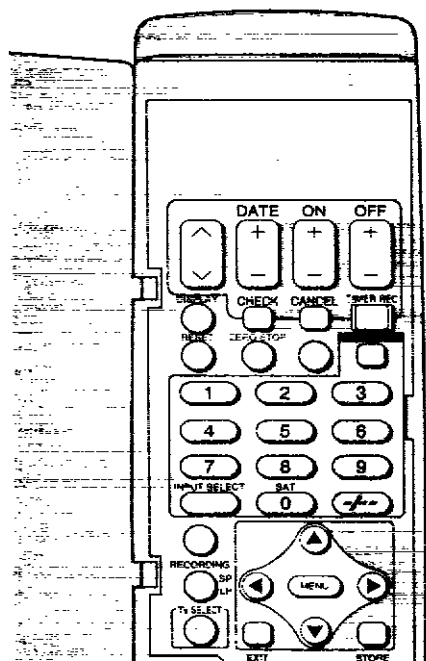
Up to 8 timer programmes can be recorded up to one month in advance by setting the timer, including weekly and daily programmes.

Preparations

- Insert a cassette tape with an intact erasure prevention tab.
- Confirm that the TV is on and the VCR viewing channel is selected.

For Example:

Programme position (channel); 2
 Date; 27th, October
 Starting time; 20:02
 Ending time; 21:30
 (Present date; 16th, October)



Follow the operation guide on screen display.
 Set each item by using ▲ ▼ ◀ ▶.

Operations

- 1 Press **MENU**, and then select **Timer recording**.
- 2 Select the unoccupied position.
- 3 Set **Programme position (channel)** "2".
- 4 Set **Date** "27/10".

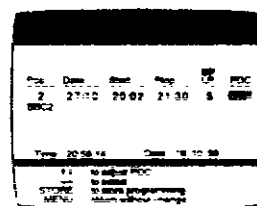
- 5 Set **Starting time** "20:02".
 • When it is kept pressed, the indication changes in 30-minute steps.

- 6 Set **Ending time** "21:30".

- 7 Select the desired **Tape speed (SP/LP)**.

- 8 Select **PDC ON** or **OFF (---**).

On Screen Display



- During satellite channel timer programming, PDC cannot be set to ON

- 9 Press **STORE**.
 • For the setting other programmes in succession, repeat steps 2-9.

- 10 To activate timer recording, press **TIMER REC.**

Weekly Timer Recording

In step 4, select the desired day by pressing ▼ or DATE-.

Daily Timer Recording

For this timer function, several groups of days can be selected.

- (A) Daily recording from Monday to Friday.
- (B) Daily recording from Monday to Saturday.
- (C) Daily recording from Sunday to Saturday.

In step 4, select the desired days by pressing ▼ or DATE-.

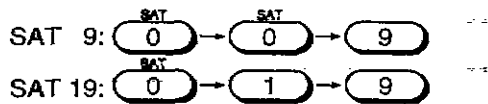
Timer Recording from External Signal Source

If Timer Recording is performed by a unit connected to the AV1 or AV2 socket, select the A1 or A2 indicator for the programme position.

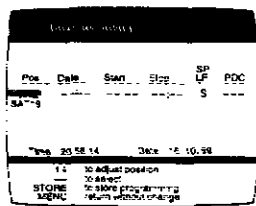
- A1: Through the AV1 socket.
- A2: Through the AV2 socket.

Satellite Channel Programmed Recording

When selecting the programme position (channel), use the numeric buttons to select a satellite channel.



On Screen Display



- PDC programming is not possible in conjunction with satellite programmed recording.
- With some satellite receivers, the power remains off for several seconds when timer recording commences. With some satellite receivers, the first several seconds will not be recorded when the timer recording function is used. In these cases, set the start time about 1 minute before the published time to avoid missing the start of the programme.
- With some satellite receivers, the power goes off if the recording is stopped while timer recording is still underway.

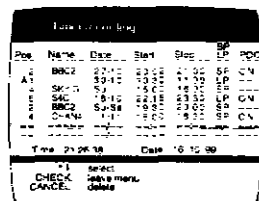
Checking a Timer Programme

- The VCR must be turned on, or the timer recording indicator "□" is lit.
- Confirm that the TV is on and the VCR viewing channel is selected.

Press CHECK.



- On Screen Display may be distorted in the PDC recording standby mode.



Cancelling a Timer Programme

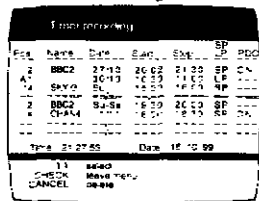
- The VCR must be turned on, or the timer recording indicator "□" is lit.
- Confirm that the TV is on and the VCR viewing channel is selected.

1 Press CHECK.



2 Select the desired timer programme.

3 Press CANCEL.



PDC (Programme Delivery Control)

How to use PDC?

- (1) The VCR detects if broadcast stations transmit PDC signal or not at the time of "Auto-setup" only, and stores this information in its memory. If broadcast stations introduce or discontinue PDC transmission later on, "Auto-setup" must be carried out again to update the VCR's memory.
- (2) PDC mode will be automatically set to "ON" when using "Video Plus+" codes for timer programming, if the stations have been memorised by the VCR as having PDC transmission. PDC mode will be automatically set to "OFF" if the start time is altered during timer programming.
- (3) PDC mode will be automatically set to "—" (no PDC) when using "Video Plus+" codes for timer programming, if the stations have not been memorised by the VCR as having PDC transmission.
- (4) PDC mode will be automatically set to "OFF" when timer programming is done, for any station, by the "On-Screen" timer recording method, because the start time can be entered freely by the user. To use PDC recording in this case, if the station transmits PDC signal, set PDC mode to "ON" and ensure that the start time is set to exactly the same as the published time, e.g. in newspapers, magazines, etc. If this is not done correctly, recording will not start.

Notes on PDC recording:

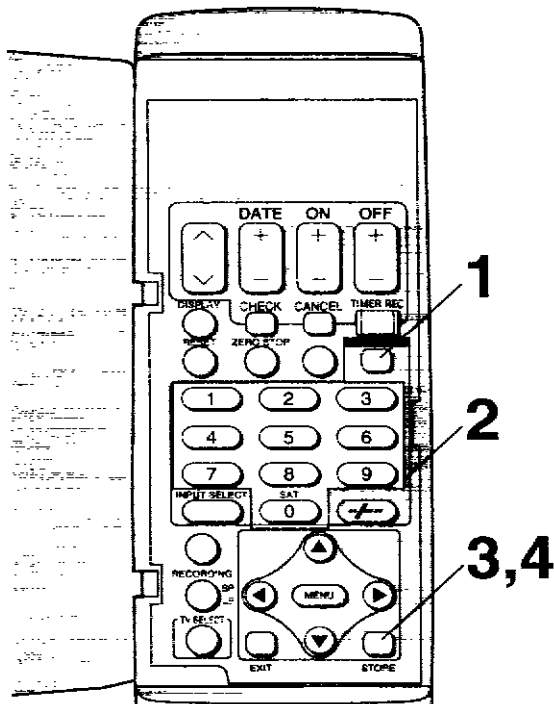
- (1) PDC recording will start approximately some seconds before the broadcast programme commences and may stop some seconds before or after the end of the programme, depending on the control from the broadcaster.
- (2) Normally programmed timer recording data is automatically cancelled after recording is completed. Under the following conditions the programmed timer recording data will be automatically cancelled at 4 a.m. of the next day.
 - (a) If PDC signal cannot be detected during PDC timer recording, the VCR will perform normal timer recording (without PDC).
 - (b) If a timer recording is incomplete due to insufficient tape or cancellation by the user.
 - (c) If timer recording is still in progress at 4 a.m.
 - (d) If the broadcaster transmits a PDC signal to suspend or interrupt the recording.

If these cases, the VCR will remain in the timer standby condition after timer recordings have been completed.

- (3) If PDC is set to "ON" manually for the station which does not have PDC transmission, the VCR will perform normal timer recording (without PDC).
- (4) In case of multiple timer programmings, while the VCR is in timer standby mode the VCR will periodically check PDC status of the programmed stations with PDC in turn for any change in the start time of each programme. But while the VCR is recording a programme, it can only check the PDC status of that programme being recorded.
- (5) If the actual broadcasting times of timer recordings overlap (regardless of whether they are PDC-controlled), the recording that starts first always has priority, and the recording of the later programme will start only after the first timer recording has finished.

Programming the Video Plus+ PlusCode

Programming is now easier than ever: simply enter the PlusCode provided in the programme schedule column carried by newspapers and magazines. PlusCodes are numbers which are assigned to each programme listed in the TV programme schedule carried in newspapers and TV guides. When these codes are entered and **STORE** is pressed, the codes are converted into the actual programming.



Preparations

- Insert a cassette tape with an intact erasure prevention tab.
- Confirm that the TV is on and the VCR viewing channel is selected.

Operations

1 Press **VIDEO PLUS+**.

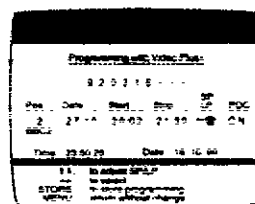


2 Enter a Video PlusCode for the TV programme to be recorded.
Example: 920216

3 Press **STORE**.



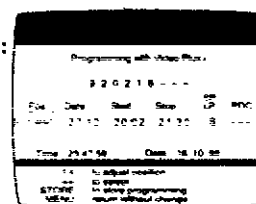
On Screen Display



- To extend the ending time or to make any corrections, use buttons **▲ ▼ ◀ ▶** or **✓ ^**, **DATE, ON, OFF**.

When programming for the first time using a Video Plus+ code, "—" will appear for the programme position because the station has been manually tuned:

In this case, select the programme position of your VCR which receives the TV station you entered the Video Plus+ PlusCode for at step 2 using button **▲** or **▼**.



- Next time Video Plus+ PlusCode for this station is entered, the correct position will appear.

4 Press **STORE** once more to confirm.

- The VCR will go into timer recording standby mode.



Note:

The VCR will automatically change to the timer recording standby mode after about 1 minute, if **STORE** is not pressed.

5 When programming two or more programmes, repeat steps 1-4.

Notes:

- To release from the standby mode, press **TIMER REC**.
- When the PlusCode is used for programming, the recording time may be slightly longer than the actual programme time.
- The procedures for checking and cancelling a timer programme are the same as on page 29.

Editing

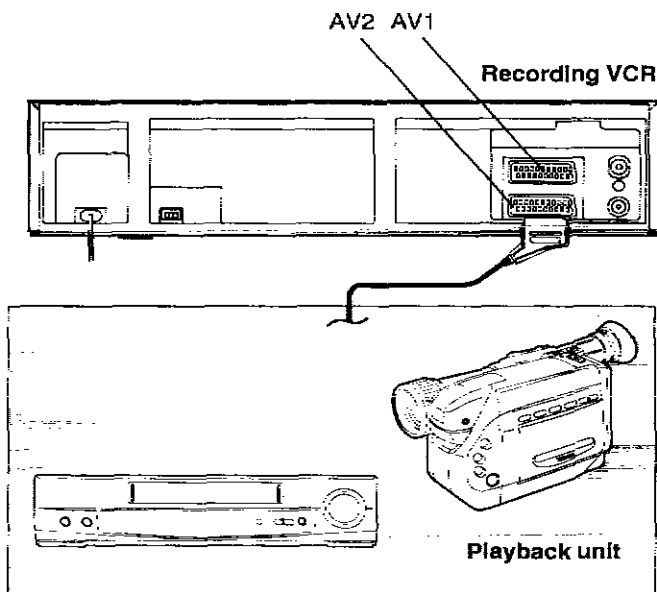
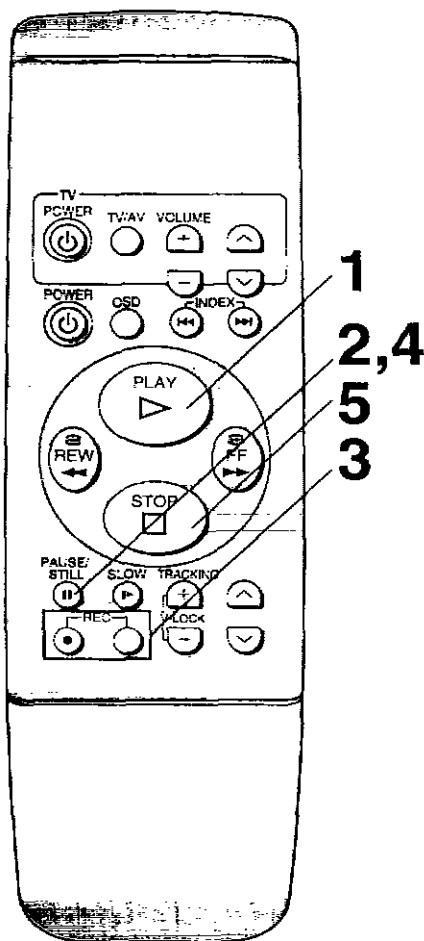
Assembly Editing

This function can be used to make up an edited tape from other recordings or video sources.

A new scene can be added to the end of a previous one.

Preparations

- Connect a movie camera or another VCR to this VCR as shown.
- Insert a recorded cassette tape with an intact erasure prevention tab.
- Select the video source required by pressing \vee / \wedge to set A1 or A2.
A1: Through AV1 socket.
A2: Through AV2 socket.



Operations

- 1 Search for the end of the previous recording.



- 2 Press **PAUSE/STILL**.



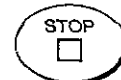
- 3 Press **REC** to switch the VCR from the pause mode to the recording standby mode.



- 4 Start the new recording by pressing **PAUSE/STILL** again.



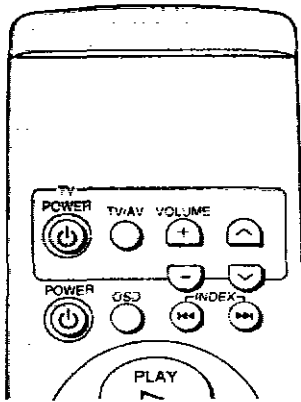
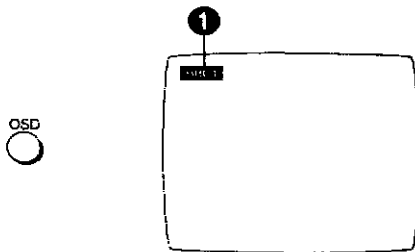
- 5 Press **STOP** to stop recording.



Other Functions

On Screen Display

Press **OSD** to make the On Screen Display appear on the TV screen.



1 TV station

Note:

When the item "On screen display" is set to OFF, the On Screen Display (except for the error message) will not appear. (See page 38.)

NTSC Playback

Tapes recorded in the NTSC system can be played back with this VCR via a PAL system TV set.

- The playback picture may roll up or down. If the TV set is equipped with a V-HOLD control, it may be possible to stop the picture movement by adjusting this control.
- Depending on the TV set used, the picture may be in black and white. However, this is not an indication of a malfunction.

VHS Index Search System

It is very easy to find the beginning of each recording, because a special index signal is recorded at the start of each recorded segment on the tape.

Recording Index Signals

Index signals are recorded in following cases.

- When a recording is started by pressing **REC**.
- When **REC** is pressed during recording.
- When timer recording is activated.

For example:

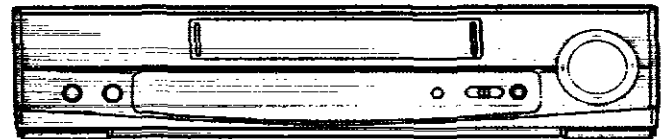
Searching for the 2nd recorded segment in the forward direction.

Press **INDEX** **▶▶** twice during playback or stop mode.



- After finding the specific recorded segment, playback starts automatically.
- For the reverse direction, press **INDEX** **◀◀**.
- Up to 20 programmes can be searched for in both directions.
- When the opposite **INDEX** button is pressed, the number shall be decreased till 1.
- The figure on the display is decremented by 1 each time an index signal is located. Bear in mind that the display will be decremented in this way even while either **INDEX** button is being pressed.
- The **INDEX** search function can only work correctly, if the index signals are spaced at least 3 minutes apart in the SP mode and 5 minutes apart in the LP mode.

Other Automatic Functions



Automatic Playback

When a cassette without an erasure prevention tab is inserted, the VCR starts playback automatically.

VCR-off Playback

When the VCR is off, an inserted cassette can be played back by pressing **PLAY**.

Automatic Rewinding

When the tape reaches its end during recording (except for timer recording) or playback, it will automatically be rewound to the beginning.

Automatic Switching Off and Ejection

When the VCR is switched off, and inserted cassette can be ejected simply by pressing **EJECT**. The VCR will eject the cassette and automatically turn itself off again.

Various Settings

Storing TV Broadcasts into your VCR

The VCR is fitted with its own TV tuner (just like a normal TV set) and can be pre-set to receive up to 99 TV broadcast stations.

Settings Using On Screen Display

Setting the Clock of your VCR

The built-in clock is used to activate the timer for automatic recording and must be set to the correct time.

Setting the Remote Controller for Operation of your TV

You can operate some makes of TVs using the supplied Remote Controller after this setting up.

Storing TV Broadcasts into your VCR

Introduction

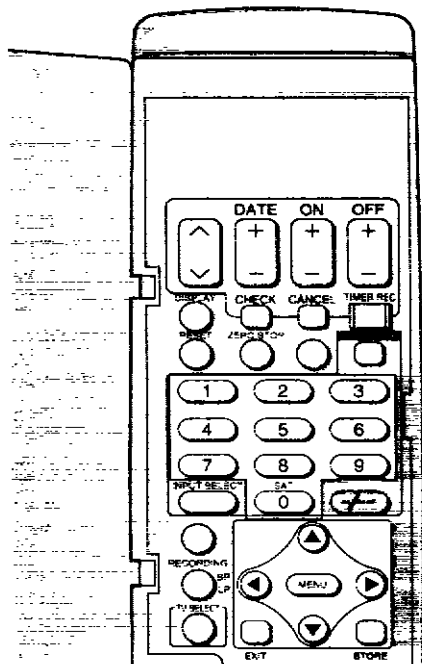
The VCR is fitted with its own tuner (just like a normal TV set) and can be pre-set to receive up to 99 TV broadcast stations.

When your video cassette recorder is plugged in for the first time, the Auto setup feature will tune in your channels automatically.

However, under certain circumstances in some transmission areas certain channels may not be assigned a channel name or their normal channel position. If this is the case they will need to be tuned manually. If Auto setup is not successful, please follow the steps below.

Preparation

Confirm that the TV is on and the VCR viewing channel is selected.

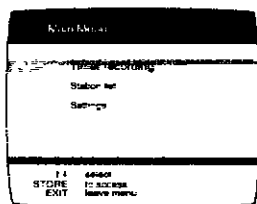


Manual Tuning Procedure

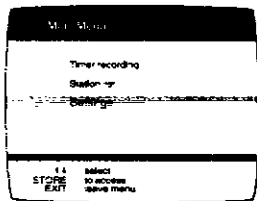
Follow the operation guide on screen display.

Operations

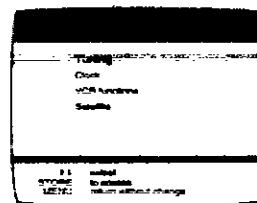
1 Press **MENU**.



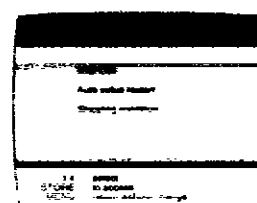
2 Select **Settings**.



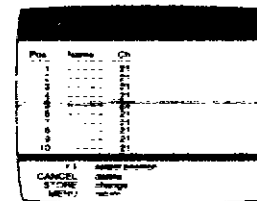
3 Select **Tuning**.



4 Select **Manual**.



5 Select desired **Programme position**.



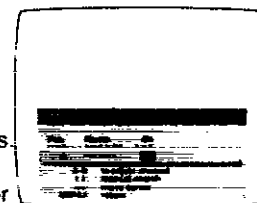
6 Select the **Signal Transmission Channel (Ch)** if known.



Use the numeric buttons.

Example: 33

- Use ▲ ▼ to search for the station if channel number is not known.



7 Press **MENU**, and then press **EXIT**.

- Repeat steps 5 to 7 if manual tuning for other station is required, before pressing EXIT.

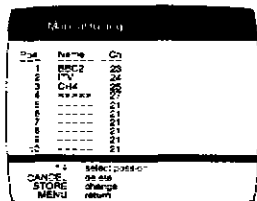
Channel Plan

	VHF	UHF
NV-6D2005 NV-SD4105	—	21-69
NV-SD4105L	A-J (CATV: 104-470 MHz)	21-69

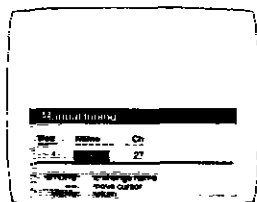
Entering the Station Name

Follow the steps 1 to 4 on page 34.

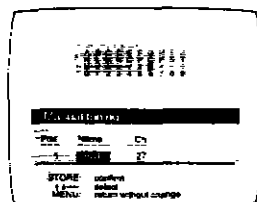
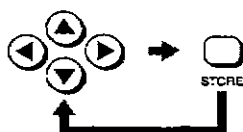
- 5** Select the station(s) named * * * * * for which you wish to setup name. Establish which channel you are viewing, by checking your TV Guide/ Newspaper.



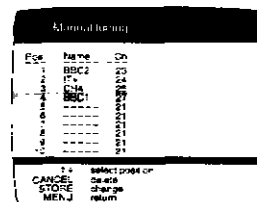
- 6** Highlight the TV station name.



- 7** Enter characters into all five * * * * * positions, from the table using the arrows and press STORE after each character. Use blank space if required, to enter a blank select the area between Z and *.



- 8** Press MENU once. If you wish to change or setup any other TV station names, repeat steps 5→8.

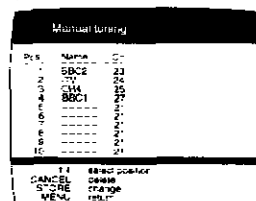


- 9** Press EXIT.

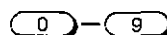
Changing the Programme Position

Follow the steps 1 to 4 on page 34, then follow the example below.

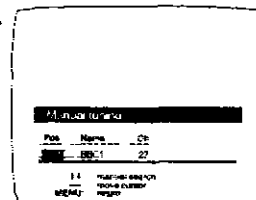
- 5** Select the station(s) named "BBC1".



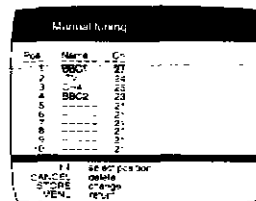
- 6** Select the number location you want to set the channel.



- Use the numeric buttons. Example: 1

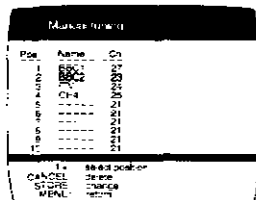


- 7** Press MENU once.



- 8** To amend other programme positions repeat steps 5→7.

- 9** When correctly tuned your station list will look like this. (Channel information will vary.)



- This is needed for using Video Plus+ PlusCodes correctly.

- 10** Press EXIT.

Notes:

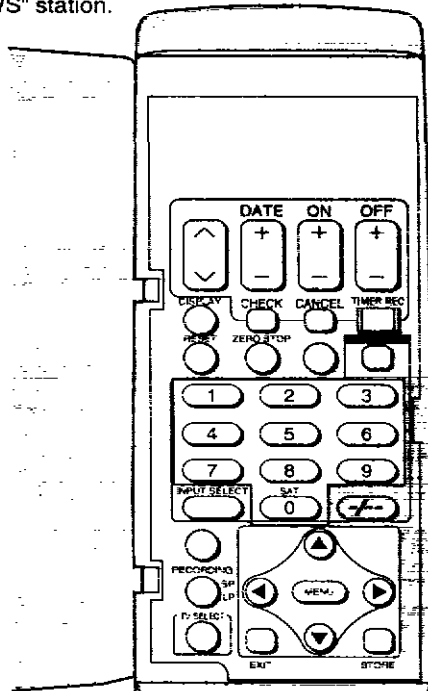
- When channels have been set with manual tuning, the channel position will need to be entered in the highlighted box the first time Video Plus+ is used.
- Any channel which receives satellite broadcasts is set using the special name of "SAT". The "SAT" name should not therefore be changed. If a channel name is to be changed in order to use that channel as an ordinary channel instead of receiving the broadcasts of the satellite channel, first select a setting other than "RF" for "Satellite connection" in "Satellite" on the OSD menu "Settings" (see page 17), and then proceed with Manual Tuning.

Satellite Tuning Manually

This section describes method for tuning VCR to a satellite receiver which has been added to your system after Auto setup has been done previously. If AV connection (connection by means of a 21-pin scart cable) is used, then this procedure is not necessary.

Preparations

- Confirm that the TV is on and the VCR viewing channel is selected.
- Turn on the VCR.
- Turn on the satellite receiver and select "SKY ONE" or "SKY NEWS" station.



Follow the operation guide on screen display.

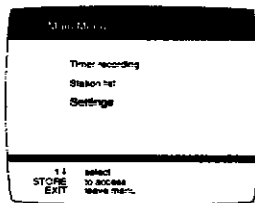
Operations

1 Press **MENU**.

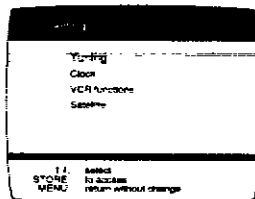
2 Select **Settings**.



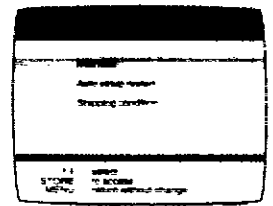
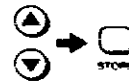
On Screen Display



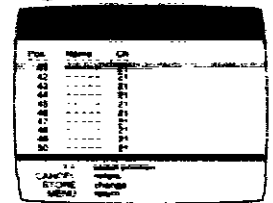
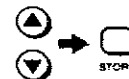
3 Select **Tuning**.



4 Select **Manual**.



5 Select unoccupied **Programme position**.

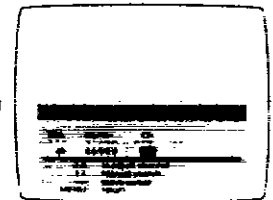


6 Select a signal transmission channel (**Ch**) on which satellite broadcasts can be viewed.

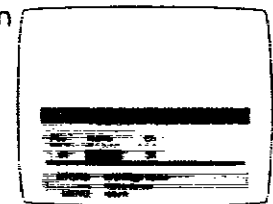


Use the numeric buttons.
Example: 35

- Or ▲ ▼ to search for satellite signal.



7 Select the TV station name (**Name**) item.



8 Enter "**SAT _ _**".



- "**_**" indicates two blank spaces. Enter the space to the right of the "**Z**" on the keyboard.
- "**SAT**" is a special term: use it only when a satellite receiver is connected.
- If "**SAT**" is already displayed, this step is unnecessary.

9 Press **MENU**, and then press **EXIT**.

Auto Setup Restart

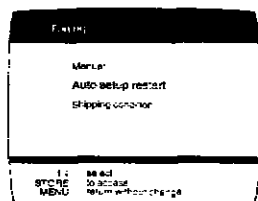
If the VCR is moved to a different TV transmission area, you may have to retune your VCR. Follow the procedure below.

Follow the steps 1 to 3 on page 34.

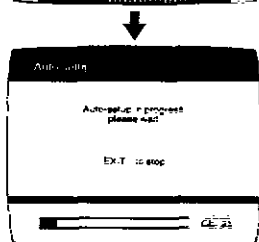
4 Select Auto setup restart.



On Screen Display



5 Press STORE.

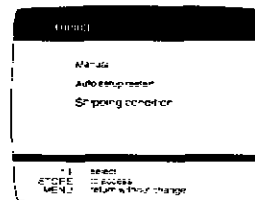


Shipping Condition

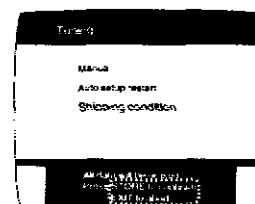
If you want to return the VCR to the factory-preset condition, follow the procedure below.

Follow the steps 1 to 3 on page 34.

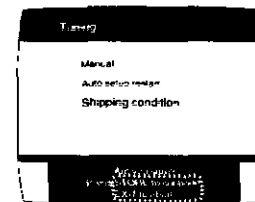
4 Select Shipping condition.



5 Press STORE.



6 Press STORE again.



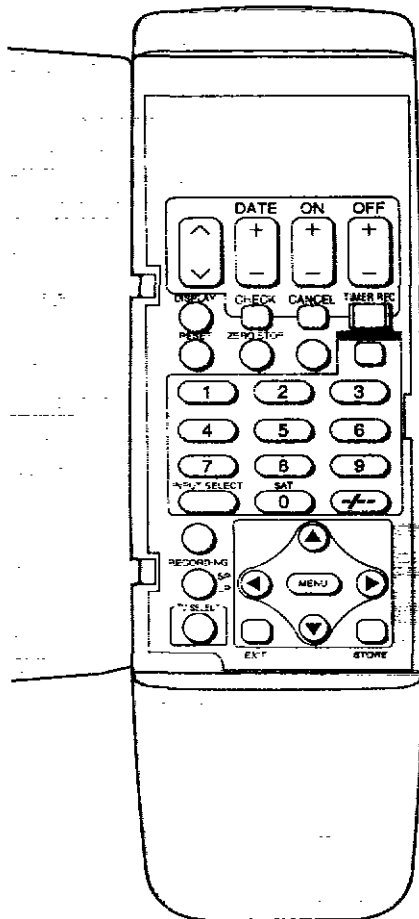
Note:

To re-tune VCR, disconnect mains lead and then reconnect mains lead. If VCR is off, turn on the VCR. Auto setup will start automatically.

Settings Using On Screen Display

Preparations

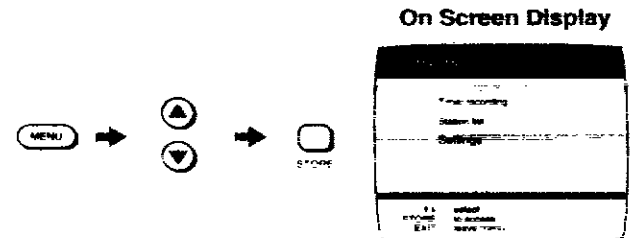
- Confirm that the TV is on and the VCR viewing channel is selected.
- Turn on the VCR.



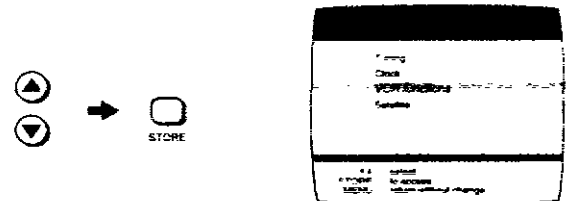
VCR functions

On Screen Display

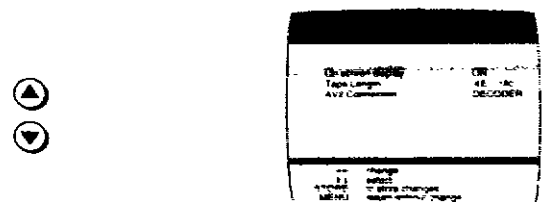
1 Press **MENU**, and then select **Settings**.



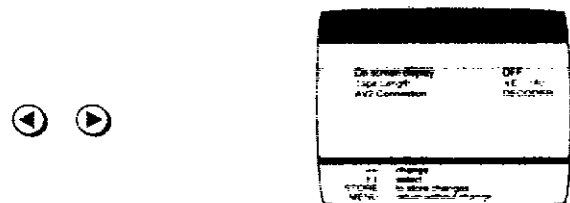
2 Select VCR functions.



3 Select On screen display.



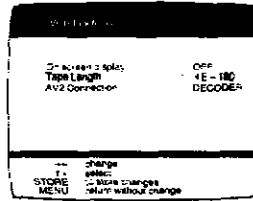
4 Select ON or OFF.



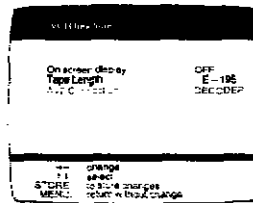
- ON:** The On Screen Display will appear on the TV screen by pressing **OSD**.
- OFF:** The On Screen Display will not appear even if **OSD** is pressed.

To select the Corresponding Cassette Tape Length for Displaying the Approximate Remaining Tape Time

1 Select Tape Length.



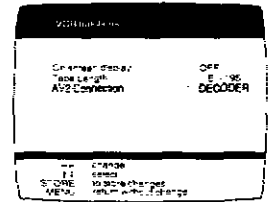
2 Select the corresponding cassette tape length.



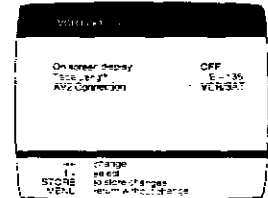
- ◀ E-180: For E30, -60, -90, -120 and -180 tapes.
- E-195: For E195 tape.
- E-240: For E240 tape.
- E-260 ▶: For E260 and -300 tapes.

AV2 Connection

1 Select AV2 Connection.



2 Select VCR/SAT or DECODER.



- VCR/SAT: When another VCR or the satellite receiver is connected to the AV2 socket.
- DECODER: When the decoder is connected to the AV2 socket.

If **Satellite Connection** is set to **AV2** (See page 17), **AV2 Connection** is set to **VCR/SAT** automatically.

After All Settings are selected

Press **STORE**, and then press **EXIT** to make On Screen Display disappear.



Setting the Clock of your VCR

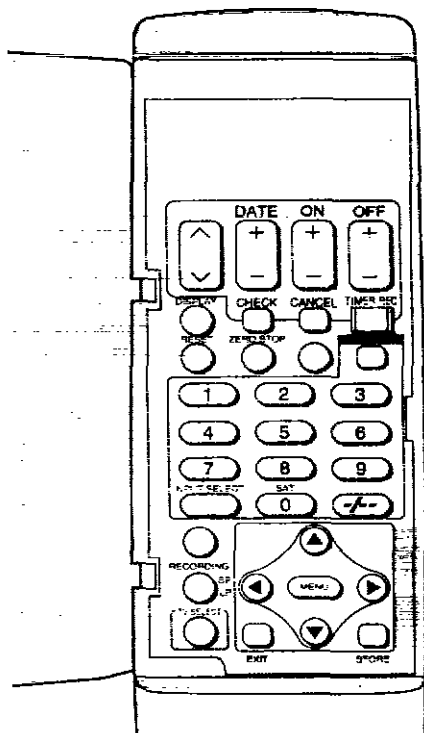
The built-in clock is used to activate the timer for automatic recording and must be set to the correct time.

The built-in digital clock employs the 24-hour system.

If VCR is not correctly set by Auto setup, follow the procedure below.

Preparations

- Confirm that the TV is on and the VCR viewing channel is selected.
- Turn on the VCR.



Manual Clock Setting

Follow the operation guide on screen display.

Operations

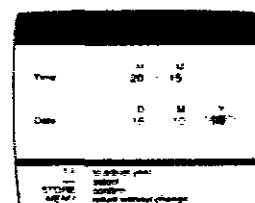
- 1 Press MENU, and then select Settings.**
- 2 Select Clock.**
- 3 Select Manual setting.**
- 4 Set Time (H/M).**
 - When it is kept pressed, the indication changes in 30-minute steps.

- 5 Set Date (D).**

- 6 Set Month (M).**

- 7 Set Year (Y).**

On Screen Display



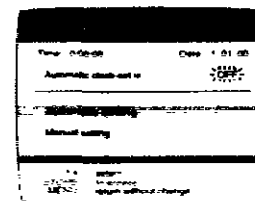
- 8 Press STORE.**
 - The clock will start.

- 9 Press EXIT.**

Automatic Clock Setting

Follow steps 1 to 2 of the above procedure.

- 3 Select Automatic setting.**



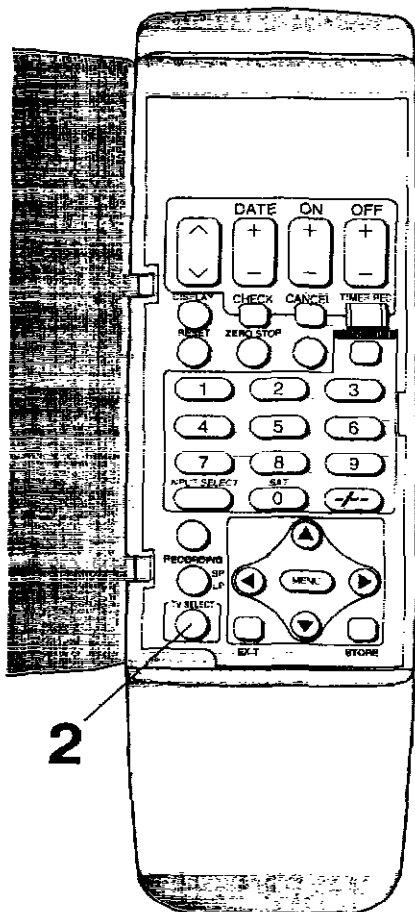
- 4 Press STORE.**
 - The clock is set automatically.

Notes:

- The clock operates for at least 60 minutes by its backup system in the event of power failure.
- When the item "Automatic clock-set is" is ON, on the on screen display, Automatic time correcting function is activated. The Automatic time correcting function will only work when the VCR is in standby. This function will not work during timer recording standby mode.

Setting the Remote Controller for Operation of your TV

You can operate some TV manufacturers (see next page) using the supplied Remote Controller after this setting up.



Preparation





















Install the batteries in the remote controller. See page 7.












Operations

- 1 Turn on the TV.
- 2 Press corresponding operation button to your TV manufacturer (see next page) while keeping **TV SELECT** pressed.
 - If setting is correct, TV will be turned off automatically.

Note:

Some TV models cannot be operated using this remote controller.

TV Manufacturer	Operation Button
Panasonic	TV SELECT + 
	TV SELECT + 
	TV SELECT + DATE + 
	TV SELECT + DATE - 
GRUNDIG, Blaupunkt, SIEMENS	TV SELECT + ON + 
PHILIPS, LOEWE, SAMSUNG, RADIOLA, DUAL, PYE, BUSH, GOODMANS, ELEMIS, CURTIS, SBR	TV SELECT + ON - 
SONY	TV SELECT + OFF + 
METZ	TV SELECT + OFF - 
FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA	TV SELECT + DISPLAY - 
FERGUSON, THOMSON, TELEFUNKEN, GOODMANS	TV SELECT + CHECK + 
FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA	TV SELECT + CANCEL + 
FERGUSON, TELEFUNKEN, GOODMANS, SABA	TV SELECT + TIMER REC + 
TELEFUNKEN	TV SELECT + RESET + 
FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA	TV SELECT + ZERO STOP + 
FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA, NORDMENDE, BRANDT	TV SELECT +  + 
HITACHI	TV SELECT +  + 1
	TV SELECT +  + 2
SIEMENS	TV SELECT +  + 3
SAMSUNG	TV SELECT +  + 4

TV Manufacturer	Operation Button
ITT, NOKIA, SELECO	TV SELECT +  + 5
NOKIA, SALORA	TV SELECT +  + 6
MIVAR	TV SELECT +  + 7
TOSHIBA	TV SELECT +  + 8
SANYO	TV SELECT +  + 9
JVC	TV SELECT + SAT +  0
SHARP	TV SELECT + INPUT SELECT + 
MITSUBISHI	TV SELECT +  + 
TELEFUNKEN	TV SELECT +  + EXIT + 

When the TV manufacturer is Panasonic or HITACHI:
When the TV's power is turned off in step 2 on the previous page, turn it back on and adjust the TV's volume using this remote controller. The volume can be adjusted if the operation button matches the TV manufacturer. If it is not possible to adjust the TV's volume, try pressing the other operation button to match the TV manufacturer again until the volume can be adjusted.

***When the TV manufacturer is FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA, NORDMENDE or BRANDT:**

How to change the programme position of TV:

1 Press **^ (TV)** to make **POS** appear on screen display.

2 Press **VOLUME +** or **-**.

• To adjust the TV's volume using the remote controller after that, press **^ (TV)** to make **POS** on screen display disappear and then adjust the volume. For some models, **POS** disappears automatically after several seconds. In these cases, this operation is not necessary.

Note:

SIEMENS, SAMSUNG, NOKIA, FERGUSON, THOMSON, TELEFUNKEN, GOODMANS and SABA have plural operation buttons. Although some models may operate with any of these operation buttons, other models may operate with only one operation button. Check each operation button in turn, and set the optimal operation button.

Helpful Hints

Before Requesting Service

Before requesting service, check the following points once again.

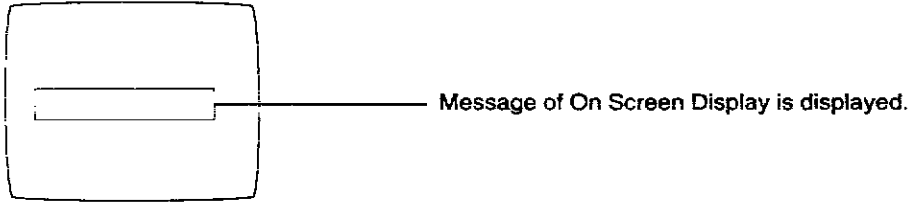
Precautions

Please read these cautions before you operate this VCR.

Specifications

Before Requesting Service

Before requesting service, check the following points once again.

Message of On Screen Display		
		
MESSAGE	CAUSE	REMEDY
This action is not possible before time and date is set	VIDEO PLUS+ is pressed when date and time is not set.	Set date and time.
Please insert Video tape	REC, PLAY, FF or REW is pressed when no cassette in the VCR.	Insert a video cassette.
Please use unprotected tape	REC is pressed without tab of Cassette.	Use a cassette with tab.

Self Test Indication		
<p>This VCR has a self-diagnosis and display function. If the VCR detects trouble during installation or during use, the following indications automatically appear in the VCR display. Indications are displayed in the form of a single English letter plus two numbers such as [H01].</p>		
INDICATION	CAUSE	REMEDY
H □ □	Some trouble has occurred. (Numbers following H and F differ according to the status of the VCR.)	Consult your dealer for further advice.
F □ □		

VCR will not operate correctly

SYMPTOM	CAUSE	REMEDY	CHECKED
VCR display is not illuminated.	Mains lead is not connected.	Reconnect mains lead to VCR.	
VCR display is illuminated but VCR will not operate.	VCR is in timer mode.	Press TIMER REC to operate VCR manually.	
	Safety devices are operating.	Disconnect mains lead and wait for 1 minute. Reconnect mains supply and check functions.	
	Condensation may have formed.	Do not operate VCR for 1 hour.	

The satellite receiver cannot be controlled correctly

SYMPTOM	CAUSE	REMEDY	CHECKED
The Satellite Receiver cannot be controlled.	The Satellite Receiver is not connected correctly to the VCR.	Connect the Satellite Receiver correctly. See page 14.	
	The settings on page 17 for receiving satellite broadcasts are not correct.	Perform the settings on page 17-19 and 36 again correctly.	

Playback will not operate correctly

SYMPTOM	CAUSE	REMEDY	CHECKED
Picture noisy or not in colour. Horizontal bars or lines run down the screen.	Tracking is not correct.	Adjust the tracking. See page 6.	
	TV set is not tuned to VCR.	Operate RF OFF/TEST SIGNAL on VCR and check TV tuning. See page 15.	
	Video heads are clogged or worn.	Consult your dealer for further advice. Head cleaning by service agent is not covered by warranty.	

Recording will not operate correctly			
SYMPTOM	CAUSE	REMEDY	CHECKED
"Erase" indication flashes whenever recording is attempted.	Erase prevention tab on cassette is broken off.	Use tape with intact erasure prevention tab, or cover tab hole with adhesive tape, if original recording is no longer required.	
Picture is recorded with noise or blank screen.	Aerial or aerial lead is defective.	Check aerial connection to VCR. See page 12. Check your normal TV picture. If there is no picture, check your aerial.	
	VCR is not correctly tuned.	Re-tune VCR. See pages 34–37.	
	A1 or A2 is selected.	Select the required TV programme.	
Timer recording cannot be performed.	Clock or calendar is incorrectly set.	Check clock and calendar. Set to present time. (Note this is a 24 hour clock.) See page 40.	
	Recording start or end time setting is incorrect.	Set recording start and end time correctly.	
	VCR is not set for timer recording.	Press TIMER REC after programming for timer recording.	
AV external recordings cannot be made.	A1 or A2 is not selected.	Select A1 or A2 by pressing INPUT SELECT .	
	External AV connections are incorrect.	Check that connections for external video and audio source are correct. See page 31.	

Remote controller will not work correctly			
SYMPTOM	CAUSE	REMEDY	CHECKED
Remote controller does not operate correctly.	Remote controller transmitter beam is not reaching VCR.	Ensure that remote controller is being pointed at VCR and that transmitter beam is not obstructed.	
	Distance is too far.	Use remote controller within 7 m of VCR. If this range is not possible, replace batteries.	
	Batteries are exhausted.	Replace batteries. Note precaution for replacement on page 7.	
	Batteries are incorrectly fitted with (+/-) reversed.	Fit batteries correctly as shown on page 7.	

Precautions

Please read these cautions before you operate this VCR.

Avoid Sudden Changes in Temperature

If the VCR is suddenly moved from a cold place to a warm place, condensation may form on the tape and inside the VCR.

Humidity and Dust

Avoid places where there is high humidity or much dust, which may cause damage to internal parts.

Do Not Obstruct the Ventilation Holes

The ventilation holes prevent abnormal increases in temperature. Do not block or cover these holes. Especially avoid covering the holes with soft materials such as cloth or paper.

Keep away from High Temperature

Keep the VCR away from extreme direct heat such as direct sunlight, heating radiators, or closed automobiles.

Keep Magnets away

Never bring a magnet or magnetized object near the VCR because it will adversely affect the performance of the VCR.

No Fingers or Other Objects Inside

Touching internal parts of this VCR is dangerous, and may cause serious damage to the VCR. Do not attempt to disassemble the VCR. There are no user serviceable parts inside.

Keep Water away

Keep the VCR away from flower vases, tubs, sinks, etc. CAUTION: If liquids are spilled into the VCR, serious damage could occur. If you spill any liquid into the VCR, consult qualified service personnel.

Cleaning the VCR

Wipe the VCR with a clean, dry cloth. Never use cleaning fluid, or other chemicals. Do not use compressed air to remove dust.

Stacking

Place the VCR in a horizontal position, and do not place anything heavy on it.

Video Head Clogging

The video heads place picture signals on the tape during recording and read picture signals from the tape during playback and they are, therefore, of critical importance for the picture quality. If the VCR is used over extremely long periods of time, these heads may become dirty and clogged. In such a case, the signals can no longer be recorded correctly, and the playback picture will be distorted accordingly. This is the case, for example, during the playback of a tape, the sound is reproduced normally, but no picture is seen, or the picture is greatly distorted. When such a symptom case occurs have the recorder checked by qualified service personnel.

Head cleaning by service agent is not covered by warranty.

Condensation may form in the VCR if:

- The VCR is in a room where the heater has just been turned on.
- The VCR is in a room with steam or high humidity.
- The VCR is brought from cold surroundings into a well-heated room.
- The VCR is suddenly brought from cool surroundings, such as an air-conditioned room or car, to a place which is hot and humid.

Note:

Do not operate the VCR for at least 1 hour if any of the above conditions occur.

This VCR does not incorporate a dew sensor.

Tape Care

Some do's and don'ts on tape care.

DO:

- 1) Use a good quality branded tape, such as Panasonic.
- 2) Keep in the Box supplied with your tape, or a video case, when not in use.
- 3) Try to use all the tape on a cassette by making recordings not only at the tape start but also in the middle and end sections. This will avoid many repeated recordings at the beginning of the tape resulting in premature wear.
- 4) Take care to insert a tape correctly into the VCR to avoid damage.

DO NOT:

- 1) Expose the tape to high humidity or temperature.
- 2) Expose to liquid.
- 3) Expose to dust particles by storing directly on a carpet for example.
- 4) Use a damaged tape or attempt to repair.
- 5) Dismantle the cassette housing.
- 6) Attempt to lift the front cassette flap or touch the tape surface.

Specifications

NV-SD260B...(U.K. model)

NV-SD410B...(U.K. model), BL...(EIRE model)

300

Power Source:	220-240 V AC 50/60 Hz
Power Consumption:	19 watts

Video Recording System: 2 rotary heads, helical scanning system
Video Heads: 2 heads (NV-SD260B)
4 heads (NV-SD410B, BL)
Tape Speed: SP; 23.39 mm/sec.
LP; 11.7 mm/sec.
Tape Format: VHS tape
Record/Playback Time: SP; 240 min. with NV-E240
LP; 480 min. with NV-E240

VIDEO

Television System: CCIR; 625 lines, 50 fields, PAL colour signal
Modulation System: Luminance; FM azimuth recording
Colour signal; converted subcarrier phase shift recording
Input Level: AV1/AV2; 1.0 Vp-p. 75 ohm, terminated
Output Level: AV1/AV2; 1.0 Vp-p. 75 ohm, terminated
RF Modulated; UHF channel 36 (± 6), 75 ohm

AUDIO

Input Level: AV1/AV2; more than -6 dBV, more than 10 kohm
Output Level: AV1/AV2; -6 dBV, 1 kohm
Audio Track: 1 track (Normal-mono only)

Video Horizontal Resolution: Colour; more than 240 lines
Signal-to-Noise Ratio: Video; more than 43 dB (SP)
Audio; more than 43 dB (SP)

Audio Frequency Response: 80 Hz-10 kHz

Operating Temperature: 5°C-40°C

Operating Humidity: 35%-80%

Weight: 4.2 kg

Dimensions: 430 (W)×99.9 (H)×293 (D) mm

Standard Accessories: 1 pc. RF Coaxial Cable
1 pc. Remote Controller
2 pcs. "R6" size batteries
1 pc. AC Mains Lead

*Weight and dimensions shown are approximate.
Specifications are subject to change without notice.*