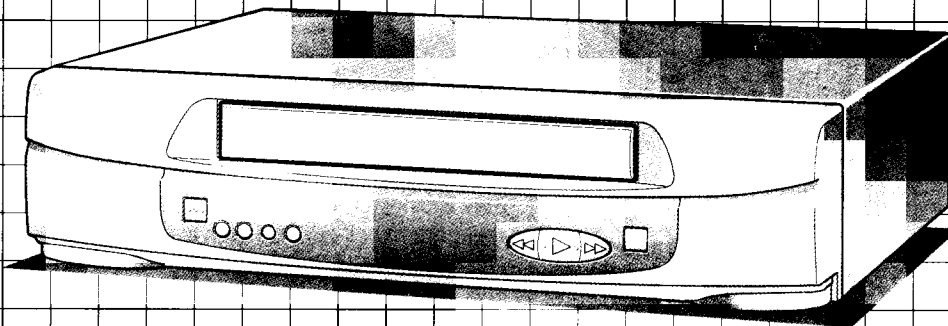


SANYO

INSTRUCTION MANUAL

VHR-VX200

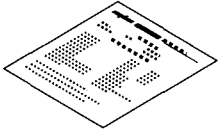
Video cassette recorder



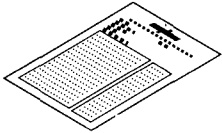
VHS
PAL NTSC4.43

IS EVERYTHING IN THE BOX ?

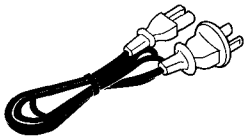
For Australia



For New Zealand



Warranty card



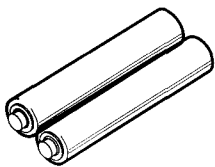
Power cord



Aerial output cable

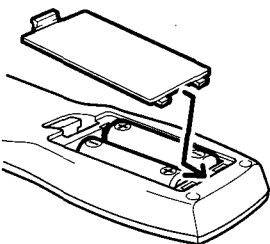


Remote control unit



2 "AA (IEC R6)" size,
1.5-volt batteries

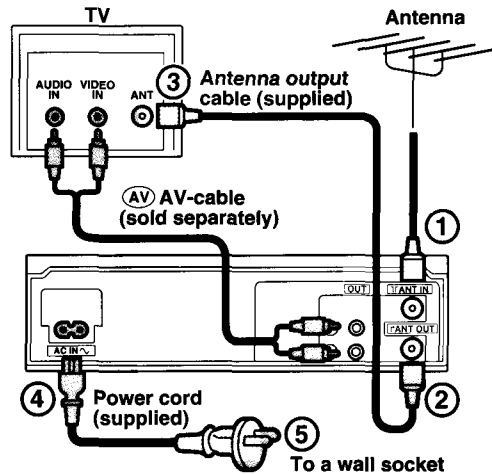
Batteries insertion



QUICK SETUP GUIDE

Thank you very much for choosing this SANYO Video Cassette Recorder.
This guide will enable the quick and easy setup of your new VCR.
For further details of features please refer to the full instruction manual.

1 CONNECT TO TV AS INDICATED



AV AV connection

We recommend that you use an AV-cable (sold separately) as indicated.
You can get a higher quality of picture and sound during playback.

If you are an AV-cable user, go to **3 VCR TUNING**.
If you are not an AV-cable user, start from **2 VIDEO CHANNEL SETTING**.

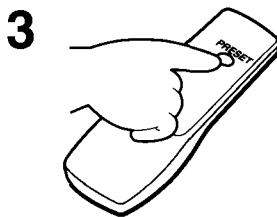
2 VIDEO CHANNEL SETTING



Turn on your TV and set your TV to "VCR" or the position designated for VCR use (always a position where no TV programme is received).



Turn off the VCR using the On/Off button.



Press the PRESET button for more than 3 seconds.
• The VCR display shows the RF output channel.



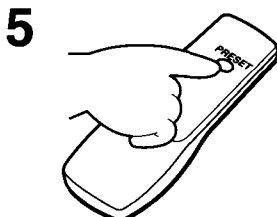
Test pattern

Tune the UHF channel on the TV to the displayed RF output channel 37.

For New Zealand, tune the UHF channel to 36.

• The test pattern will appear. This is your video channel.

If the test pattern is disturbed or replaced by a TV station, go to step 5 in **STAGE 1** on page 6.





To store the channel, press the PRESET button.
• The VCR is turned off.




This completes the video channel setting.

3 VCR TUNING

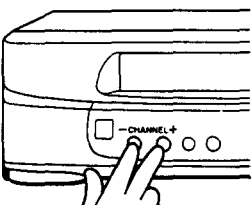
1  Turn on your TV. Set the TV to the video channel. If using an AV-cable, set it to AV mode.

2  Turn on the VCR using the ϕ /I button.

3  Confirm the preset programme position using the CH (+ or -) button.
 • The TV stations are already preset as in the right table.

Programme position	TV station
2	AS CH2
7	AS CH7
9	AS CH9
10	AS CH10
28	AS CH28

When this is ok for you, go to **4** CLOCK SETTING. If retuning this VCR, continue with step 4.

4  When retuning this VCR, press both the CHANNEL (+ and -) buttons on the VCR simultaneously for at least 3 seconds.




- Auto tuning will start. It will take a few minutes, please be patient.
- When finished, the TV station preset to the lowest programme position number will be tuned on your TV screen.

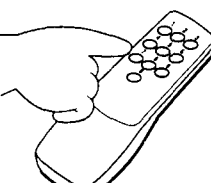
▲ Auto tuning

- During the auto tuning operations, please do not press any of the buttons or controls on the VCR or remote control.
- Auto tuning is not possible if the VCR is set to external input mode.
- The skip function will be automatically set for all position numbers where no TV station has been preset.


4 CLOCK SETTING

1  Press the CLOCK button.



2  Set the now setting (day, month, year and time) using the numeric (0 - 9) buttons.



3  To store the setting, press the OK button.

▲ Year display

The year display is only last two digits. You only need to enter the last two digits. The year 2000, is set by entering 00.

CONTENTS

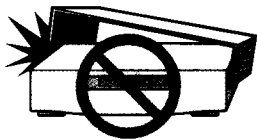
GB

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Safety precautions

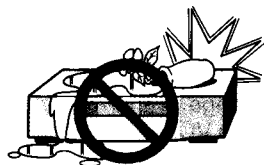
DANGER:

This VCR contains live parts. Do not remove the cabinet.



WARNING:

To prevent fire or shock hazard, do not expose this product to rain or moisture.



CAUTION:

Do not put your hand or other objects in the cassette loading slot because of the risk of injury or an accident. Be sure to keep small children away from the VCR.



Caution concerning condensation

Be careful of condensation

Condensation can form inside a VCR when it is suddenly moved from a cold place to a warm, humid one, or when a heater has been turned on to quickly heat the room.

Do not insert a video cassette if you use this VCR in areas subject to condensation.

Wait for 1½ to 2 hours to completely eliminate condensation before using the VCR.

Operating precautions

- Place the VCR on a flat, stable, level surface. Never subject it to violent shaking or any other shock or impact.
- Do not expose the unit to high temperatures. Excessive heat (heat sources such as heaters, ovens, closed car on hot days, etc.) may damage the unit.
- Be sure to use this VCR only in a temperature range of 5°C to 40°C (41°F to 105°F) and at less than 80% humidity.
- Do not use the unit under the following conditions:
 - in locations with high humidity
 - in presence of excessive dirt or dust
 - in areas subject to strong vibrations
 - near strong magnetic fields (e.g. transmitting antennas, motors, fluorescent lights, etc.)
- Do not stack anything on top of your VCR, or block the air vents, to prevent damaging or overheating.
- Do not place anything, except VHS video cassette tapes, in the unit.
- Do not allow rain, steam, dew, salt water, sand, oily smoke, metal objects, etc. to enter the unit.
- Clean with a dry and soft cloth, or soft cloth slightly moistened with a mild detergent solution.
- Do not use any type of solvent, such as alcohol or benzine.

Electrical precautions

- Do not forget that even in the power off state there is an electrical voltage inside the VCR as long as it is connected to a wall socket.
- Disconnect the mains lead from the wall socket if the VCR is not to be used for a long time.

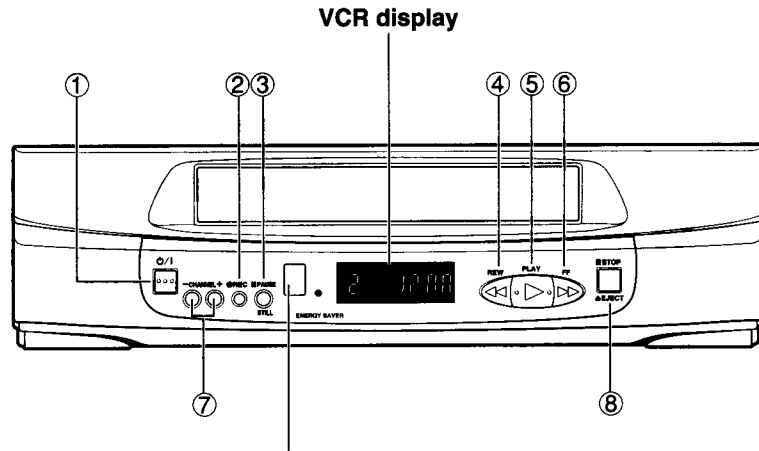
Only cassettes marked **VHS** can be used with this VCR.



If the unit does not operate properly, switch it off, refer to "TROUBLESHOOTING" (see page 15) or contact your Sanyo authorized service agent.

CONTROLS

■ Front panel



Remote control sensor

Operate the remote control unit within a range of approx. 30° and approx. 6m (20 ft.) from the front of the VCR.

- | | | | |
|------------------|------------------------------------|--------------------|---|
| ① ⏻ | : Power on/standby/ECO mode | ⑤ ▶ | : Playback |
| ② REC | : Recording | ⑥ ⏩ | : Fast-forward
Forward search |
| ③ ⏸/STILL | : Recording pause
Still picture | ⑦ CH (+, -) | : Programme selection
Picture adjustment |
| ④ ⏮ | : Rewind
Reverse search | ⑧ ⏹/EJECT | : Tape stop
Cassette ejection |

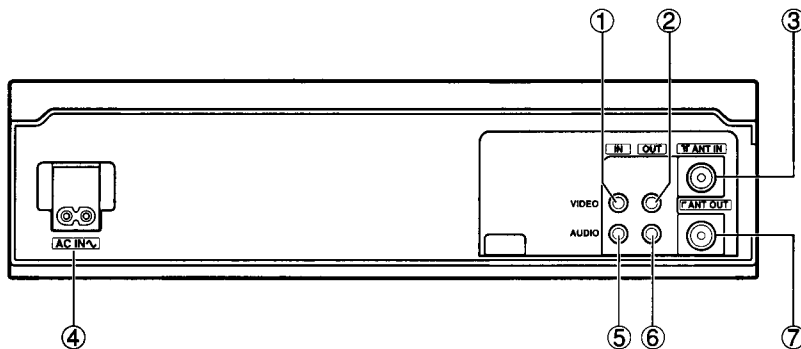
VCR display



Display	Mode
⏻	Cassette In
▶	Playback
▶	Forward search
⏩	Fast-forward
⏮	Rewind
⏪	Reverse search
⏸	Still picture
REC	Record
REC - -	Record pause
-REC-	Synchro dubbing standby
☐	Timer on
1 - 88	Programme position number
L1	External input mode

(⏻: Flashing)

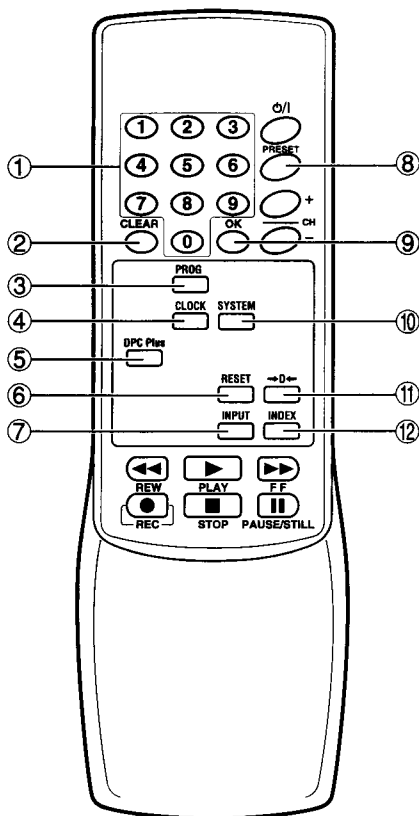
■ Rear panel



- | | | | |
|-------------|----------------------|-------------|-----------------------|
| ① VIDEO IN | : Video input plug | ⑤ AUDIO IN | : Audio input plug |
| ② VIDEO OUT | : Video output plug | ⑥ AUDIO OUT | : Audio output plug |
| ③ ANT IN | : Antenna input plug | ⑦ ANT OUT | : Antenna output plug |
| ④ AC IN~ | : Power socket | | |

■ Remote control unit

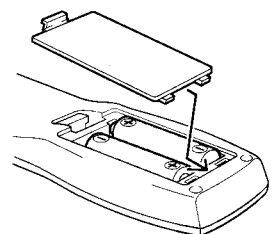
The buttons on the front of the unit have the same functions as those with the same names on the remote controller.



- | | |
|------------|---|
| ① 0 - 9 | : Direct programme selection, for various input |
| ② CLEAR | : Clears data |
| ③ PROG | : Timer programme set |
| ④ CLOCK | : Clock set |
| ⑤ DPC Plus | : DPC (Digital Picture Control) function on/off |
| ⑥ RESET | : Counter reset |
| ⑦ INPUT | : External input mode selection |
| ⑧ PRESET | : Tuner preset |
| ⑨ OK | : Data/settings entry |
| ⑩ SYSTEM | : NTSC playback system selection |
| ⑪ →0← | : Counter zero ("0:00:00") return |
| ⑫ INDEX | : Index search |

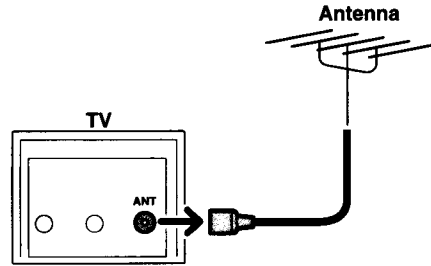
Remote control batteries insertion

- 1 Open the lid.
- 2 Insert 2 "AA (IEC R6)" 1.5 volt batteries (supplied) according to the ⊕ and ⊖ signs.
- 3 Replace the lid.

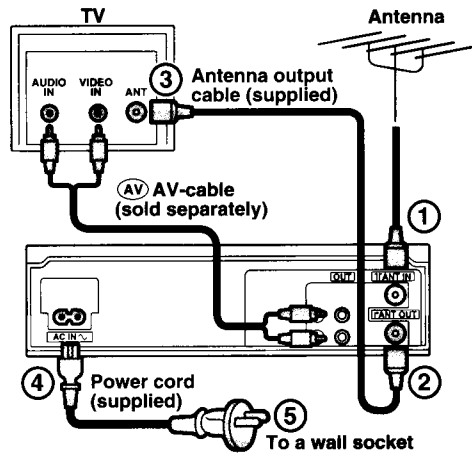


CONNECTIONS

- 1 Disconnect the antenna lead from the TV antenna terminal.



- 2 Make connections ① to ⑤ shown in the illustration.



AV connection

We recommend that you use an AV-cable (sold separately) as indicated. You can get a higher quality of picture and sound during playback.

Switching the VCR power on/standby

Power is switched on/off by pressing the \odot /I button on the remote control or on the VCR.

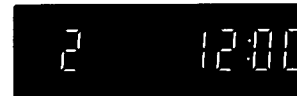
VCR display

Standby mode (\odot)



- Only the clock is displayed.

Power on mode (I)



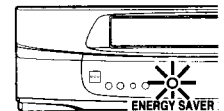
- The clock and the programme position are displayed.

Saving energy (ECO mode)

The ECO mode reduces the electricity consumption by turning off the VCR display and other components while the VCR is in standby mode.

To set the ECO mode

- 1 Press the \odot /I button to turn the VCR standby mode.
- 2 Press and hold the \odot /I button for more than 3 seconds.
 - The ENERGY SAVER indicator comes green. And nothing is displayed on the VCR display.



To cancel the ECO mode

Press the \odot /I button to turn the VCR on.



- When a timer recording is programmed, the ECO mode cannot be set.
- When watching TV, do not set the ECO mode. If the ECO mode is set, the aerial output from the VCR will deteriorate giving very poor TV reception.

For AV-cable users

Go to **STAGE 2** on next page.

For non AV-cable users

Start from **STAGE 1** below.

STAGE 1 Video channel setting



Turn on the TV.
Set the TV to "VCR", or the position designated for VCR use (always a position where no TV programme is received).

1 Turn off the VCR using the ϕ/I button.

2 Press the **PRESET** button on the remote control for more than 3 seconds.

- The VCR display shows the RF output channel.



3 Tune the UHF channel on the TV to the displayed RF output channel **37**.
For New Zealand*, tune the UHF channel to **36**.

- The test pattern (below) will appear.
If necessary, adjust the tuning on the TV so that the test pattern is clear.



If the test pattern is disturbed or replaced by a TV station, continue with step 5.

4 To store the channel, press the **PRESET** button.

- The VCR is turned off.

This completes the video channel setting.

5 Change the RF output channel number on the VCR display to a vacant channel number applicable to your area.

For Australia

Using the **CH (+)** button change the RF output channel number.

- RF output channel range is 28 – 69.



If necessary, return to "28" using the **CH (-)** button. Then press the **CH (+)** button.

For New Zealand

Press the **CH (-)** button to display "28" on the VCR display. Then using the **CH (-)** button change the RF output channel number.

- RF output channel range is 21 – 69.



If necessary, return to "28" using the **CH (+)** button. Then press the **CH (-)** button.

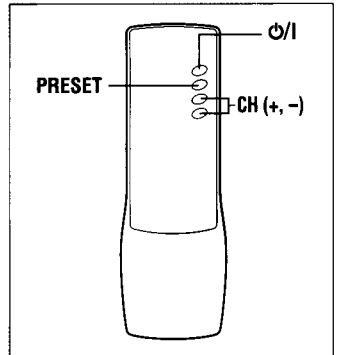
6 Tune the UHF channel on the TV to the changed RF output channel.

- The test pattern will appear.
If necessary, adjust the tuning on the TV so that the test pattern is clear.

7 To store the channel, press the **PRESET** button.

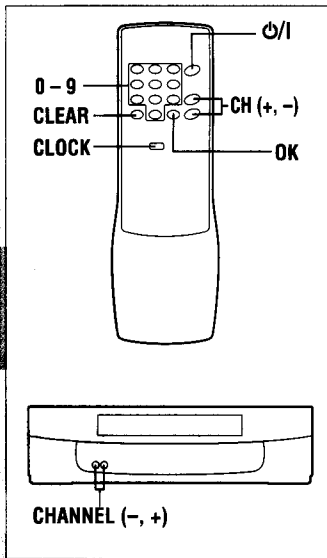
- The VCR is turned off.

This completes the video channel setting.



- * The RF converter of this VCR has been factory set to Australian UHF37. The New Zealand and Australian channels are not the same. This means UHF37 Aus is basically the same as UHF36 NZ. But not exactly the same.

SETUP



⚠ Auto tuning

- During the auto tuning operations, please do not press any of the buttons or controls on the VCR or remote control.
- Auto tuning is not possible if the VCR is set to external input mode.
- The skip function will be automatically set for all position numbers where no TV station has been preset.

STAGE 2 VCR tuning



Turn on the TV.
Set the TV to the video channel. If using an AV-cable, set it to AV mode.

Turn on the VCR using the **⏻/I** button. The TV stations are already preset as follows. Confirm this preset programme position using the **CH (+ or -)** button.

Programme position	"2"	"7"	"9"	"10"	"28"
TV station	AS CH2	AS CH7	AS CH9	AS CH10	AS CH28

When the preset channel tuning is ok for you, go to **STAGE 3**.

When retuning this VCR, press the both **CHANNEL (+ and -)** buttons on the VCR simultaneously for at least 3 seconds.



- Auto tuning will start. It will take a few minutes, please be patient.

Auto tuning

This VCR has a built-in tuner capable of tuning up to 88 TV stations.

The TV stations available in your area will be automatically preset in order starting from programme position number "01".

Tuning confirmation

Confirm the channel tuning has been performed using the **CH (+ or -)** button. And to sort the TV stations, refer to "**Sorting the TV stations**" on page 8.

STAGE 3 Clock setting

1

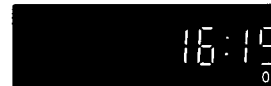
Press the **CLOCK** button.



2

Set the now date (day, month, year and time) using the numeric (0 - 9) buttons. For a single digit number, first press the numeric 0 button, then press the button of the desired number.

To set the year you only need to enter the last two digits.



In case of error, press the **CLEAR** button to erase the wrong setting, then enter the correct one.

3

To store the setting, press the **OK** button.
• Seconds will start counting from "00" as the **OK** button is pressed.

⚠ Year display

The year display is only last two digits. The year 2000, is set by entering 00.

Power interruption

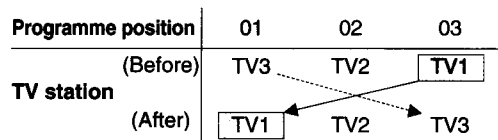
If the power to the VCR has failed or has been disconnected for more than 1 hour, all data except the tuner preset memory should be reset.

First set the clock, then set any function again.

Sorting the TV stations

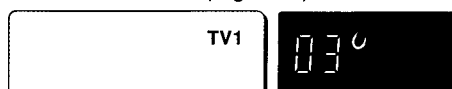
It is possible to sort the TV stations as desired.

Example: To change **TV1** from programme position "03" to programme position "01".



1 Press the **PRESET** button.

2 Using the **CH (+ or -)** button select the desired TV station (e.g. **TV1**).



3 Using the numeric (**0 - 9**) buttons, enter the target programme position number (e.g. "01").



4 Press the **OK** button.

Repeat steps **2** to **4** to change another TV station programme position number.

5 When finished, press the **PRESET** button.

Channel preset

Fine tuning

If the tuning is not optimum, it can be improved by manual fine tuning.

1 Press the **PRESET** button.

2 Press the **FF** or **REW** button to obtain the best possible picture and sound.

3 Press the **OK** button.

4 When finished, press the **PRESET** button.

Skip function

If only programme position numbers 1 to 30 have been preset, you can set the skip function for programme position numbers 31 to 88, so that only the preset TV stations will appear when pressing the **CH (+ or -)** button.

1 Press the **PRESET** button.

2 Using the numeric buttons or the **CH (+ or -)** button, select the programme position number to skip.

3 Press the **CLEAR** button.

- The "S" indicator will light.

To cancel the skip function, press the **CLEAR** button again to erase the "S" indicator.

4 Press the **OK** button.

Repeat steps **2** to **4** for every programme position number to skip.

5 When finished, press the **PRESET** button.

Manual tuning

This tuning mode can be used to modify the settings entered by the Auto tuning function, or to manually preset the TV stations to particular programme position numbers.

1 Press the **PRESET** button.

2 Using the **CH (+ or -)** button, select the desired programme position number.

3 Press the **PLAY** button.

If the search stops on a broadcast other than the one desired, press the **PLAY** button again until the broadcast from the desired TV station appears on the TV screen.

4 Press the **OK** button when the desired TV station appears on the TV screen.

Repeat steps **2** to **4** to preset another TV station to another programme position number.

5 When finished, press the **PRESET** button.

Revising the clock

1 Press the **CLOCK** button.



2 **To set Summer/Standard time:**

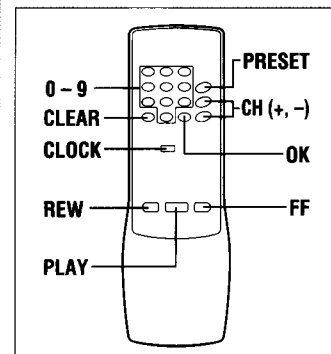
Each press of the **CH (+ or -)** button will advance or retard the clock by 1 hour.

To delete the incorrect numbers:

Continue pressing the **CLEAR** button, then enter the new settings using the numeric (**0 - 9**) buttons.

3 To store the setting, press the **OK** button.

- Seconds will start counting from "00" as the **OK** button is pressed.



For New Zealand

Tuning or presetting the VCR channels

This is very important for correct G-CODE operation.

Ideally for simpler operation, channels should be preset as follows:

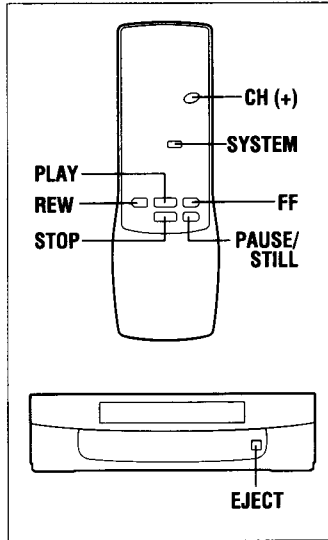
Television station	Programme position number
TV 1	1
TV 2	2
TV 3	3
TV 4	4
Prime	5

For additional channels in your area it is over to you to select the most logical channel position to place them.

* Sky Television	6
* Canterbury TV	7
* Action TV	8

* When you use the G-CODE function to programme a recording from a certain channel for the first time, it will ask you the programme position number that channel was preset to. That setting will be memorized and automatically set the next time the same channel is selected.

PLAYBACK



Auto power on

The power is automatically switched on as a cassette is inserted while the VCR is in the standby mode.

Auto play

The VCR will play back a tape automatically when a video cassette is inserted whose erasure-prevention tab has been removed.

Auto eject

When a video cassette without an erasure-prevention tab is played to the end of the tape, the tape will be automatically rewound and then the cassette will be ejected.

Power off eject

The video cassette will be ejected when the **EJECT** button is pressed, even when the VCR is in standby mode.



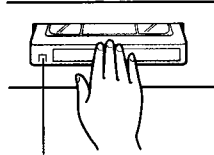
Turn on the TV.
Set the TV to the video channel. If using an AV-cable, set it to AV mode.

1

Insert a recorded video cassette.

Cassette loading

Gently push the centre of the cassette until it is loaded automatically.



Erasure-prevention tab

2

Press the **PLAY** button.

Stop

Press the **STOP** button.

Eject the cassette

Press the **EJECT** button on the VCR.

Rewind

Press the **REW** button during stop or play for reverse search operation.

Fast-forward

Press the **FF** button during stop or play for forward search operation.

Variable playback modes

Forward search

Press the **FF** button during playback or fast-forward operation.

Reverse search

Press the **REW** button during playback or rewind operation.

Still picture

Press the **PAUSE/STILL** button during normal playback.

Frame advance

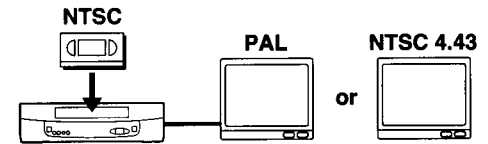
Press the **PAUSE/STILL** button during still picture.



- During variable playback modes the picture may contain some noise or vibration that cannot be corrected. This is not a malfunction.
- If still picture playback is continued for about five minutes, the VCR will automatically change to stop mode in order to prevent the tape from being damaged.
- This VCR will not guarantee the variable playback modes picture quality of tapes.

Playback of a NTSC tape

This VCR can playback a NTSC tape on a PAL (B/G) or NTSC 4.43 system TV.



Select the TV system on the VCR to match the system of the TV used, as indicated below.

1

Press the **SYSTEM** button.

2

Press the **CH (+)** button.

TV system	VCR display
PAL (B/G)	PAL
NTSC4.43	NT443

3

Press the **SYSTEM** button.

When you playback a NTSC tape on a PAL TV,

- If the image is unstable, rolling vertically, use the TV vertical hold button to stabilize the image.
- The image may shrink vertically and a black band may appear at the top and bottom of the screen.



- A NTSC tape cannot be copied normally.
- Picture quality of NTSC tapes cannot be guaranteed with this VCR.
- It is not possible to playback a NTSC tape of LP or EP mode.

Picture adjustments

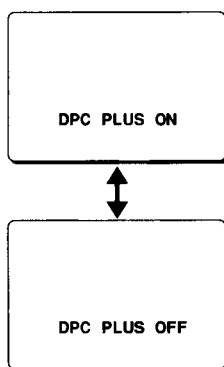
DPC (Digital Picture Control) function

This function sets the sharpness automatically to give the best possible picture during playback.

To adjust the picture to the desired sharpness, press the **DPC Plus** button.

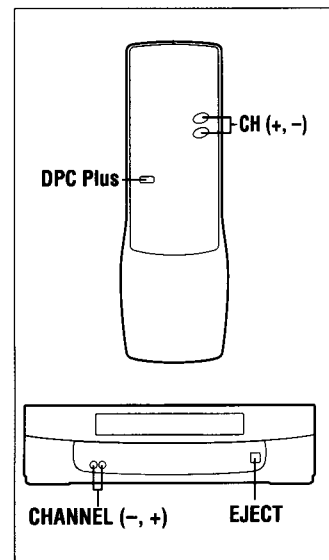
(The DPC Plus mode does not function in variable playback modes.)

- The condition of the DPC Plus mode is displayed on-screen for about 3 seconds.



If the still picture moves up and down

Use the **CH (+ or -)** button, to correct.



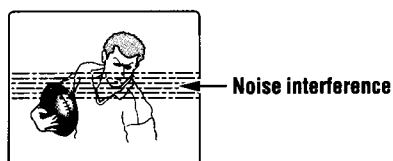
Once the cassette tape is unloaded, the VCR is reset and the next time the VCR is used you may need to do the corrections again.

Tracking adjustment

This VCR is equipped with an auto tracking function. During playback this function will adjust the tracking to the best possible image. If noise appears in the playback picture, press the **CH (+ or -)** button, to reduce the noise interference in the image.

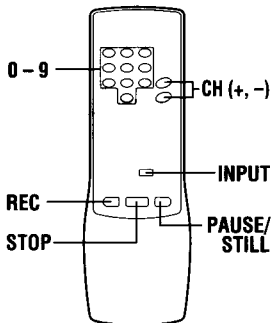
When the tracking is adjusted using the **CH (+ or -)** button, the auto tracking mode is cancelled.

To return to auto tracking mode, eject the cassette (press the **EJECT** button), then reload it again.



- If the **CHANNEL (+ and -)** buttons on the VCR are pressed simultaneously in the playback mode, the tracking adjustment will move to centre position and the auto tracking mode will be cancelled.
- Depending on the cassette tape, you may find that some noise interference cannot be completely corrected using the tracking controls.

RECORDING TV PROGRAMMES



To record from an external source (AUDIO/VIDEO IN on the rear panel use)

At step 1,

Press the **INPUT** button.

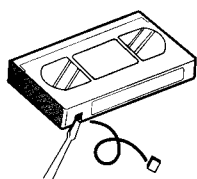
- "L1" is displayed instead of the programme position number.

Mis-erasure prevention eject

The cassette will automatically be ejected if recording is attempted on a video cassette without an erasure-prevention tab.

Auto rewind

The VCR automatically rewinds the tape when it reaches the end. This function does not operate with timer recording or Quick Start Recording timer.



Erasure-prevention tab

To prevent accidental erasure, remove the tab after recording. To record again, cover the hole with vinyl tape.



Turn on the TV.
Set the TV to the video channel. If using an AV-cable, set it to AV mode.



Load a cassette tape with erasure-prevention tab.

- 1 Using the numeric (0 – 9) buttons, or the **CH (+ or –)** button, select the TV station to be recorded.
- 2 Press the **REC** button.
- 3 Stop the recording using the **STOP** button.

If you wish to avoid recording unwanted material

- 1 Press the **PAUSE/STILL** button.
- 2 To continue recording, press the **PAUSE/STILL** button or **REC** button.



If the record pause mode continues for about five minutes, the VCR will automatically go into the stop mode in order to prevent damage to the tape.

Recording one programme while watching another

- 1 Start recording the desired TV station programme selected on the VCR.
- 2 Select on the TV receiver the TV station you want to watch.
If using an AV-cable, set the TV to the TV mode.

Quick Start Recording timer

Timer recording is simple.

You can start a recording and then programme when the VCR will automatically stop recording and go into standby mode.

- 1 Press the **REC** button twice.
 - 2 Set the recording end time by using **REC** and **CH (+ or –)** buttons.
REC: Units of 30 minutes
CH (+, –): Units of 1 minute
- The timer indicator (□) will light after the recording end time is set.



To stop the recording at any time, press the **STOP** button.

Checking/Changing

When the **REC** button is pressed during Quick Start Recording, the recording end time will blink.

The recording end time can be changed by pressing **REC** and **CH (+ or –)** buttons.

TIMER RECORDING PROGRAMMING

4

ADVANCED OPERATION

GB

You can set up to 6 programme to be recorded upon a period of up to 1 year.

Example: Programme position: 02
Date: 25 December
On time (start): 21:30
Off time (end) 23:15

- 1 Press the **PROG** button.
- 2 Using the numeric (0 – 9) buttons, set the programme position number (e.g. "02")



Everyday/Weekly recording

Press the **CH (+)** button repeatedly to select:

Ed: for everyday recording

WK: for weekly recording (the same programme every week)

- 3 Set the date (e.g. 25 12)

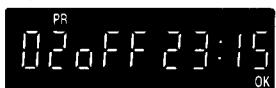
If you entered a wrong number, press the **CLEAR** button to delete it, then enter the correct number.



- 4 Set the recording on times (e.g. 21 30).



- 5 Set the recording off times (e.g. 23 15).



- 6 When all the settings are as desired, press the **OK** button.

You can programme another recording by repeating steps 2 to 6.

- Insert a video cassette with erasure-prevention tab. Make sure the tape is longer than the total recording time.

- 7 Press the **⏻** button.

- The timer indicator (⏻) will light on the VCR display and the VCR goes into timer recording standby mode.

Confirmation

- 1 Press the **PROG** button repeatedly. "PR -- -- --" will be displayed first if less than 6 recordings have been programmed.

The settings (programme position and date) for the programmed recordings are displayed in sequence.

- 2 When the settings you want to confirm are displayed, press the **CH (-)** button. The date will change to the on time then to the off time.

Cancelling

- 1 When the settings you want to cancel are displayed, press the **PROG** button.

- 2 Press the **CLEAR** button. The VCR will automatically return to the clock (counter) display.

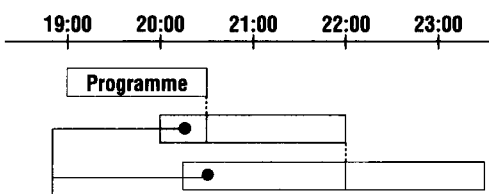
To correct a programmed timer recording, first cancel it, then reprogramme it as desired.

Notes on timer recording

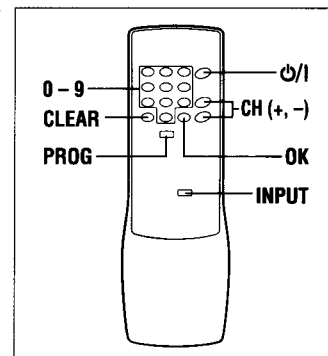
- The (⏻) indicator will flash if no video cassette is loaded when going into timer standby mode.
- The (⏻) indicator will flash and the video cassette is ejected if a video cassette with no erasure-prevention tab is loaded.
- Even if a timer recording has been preset, the VCR can be used as usual up to the programmed start time. When finished using the VCR, do not forget to return it to timer recording standby mode.

Programme priority

If several timer recordings have overlapping recording time, the recording with the earliest start time will be recorded first, until the end.



These portions will not be recorded



To record from an external source (AUDIO/VIDEO IN on the rear panel use)

At step2,

Press the **INPUT** button.

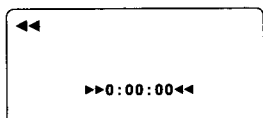
- "L1" is displayed instead of the programme position number.

USEFUL FUNCTIONS

Return to Zero

The counter zero position is memorised and can be used to return to that position on the tape.

- 1 At the position you wish to return to, press the **RESET** button to reset the counter reading to "0:00:00".
- 2 After a recording or playback, to return to the zero position, just press the **→0←** button.



- The tape will be rewound or fast-forwarded and will stop at or near the counter zero "0:00:00" position.



- Return to zero is possible from the playback or stop mode.
- The **RESET** button cannot be used while the tape is being returned to zero.
- Whenever you load a cassette tape, the counter is reset to "0:00:00".
- If you play back a blank tape or a blank portion of tape, the counter will not operate.

Endless play

This function will play back a tape to the end, rewind it then replay it again, and again until you stop it.

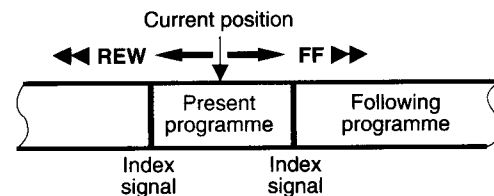
- 1 In the stop or playback mode, first press the **PLAY** button then while holding it down press the **REW** button on the VCR.
- 2 To cancel the endless play, press the **STOP** button.



During endless play, please do not press **FF**, **REW** or **PAUSE/STILL** button because the endless play will be cancelled.

Index search

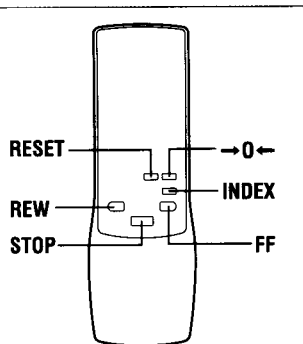
An index signal is automatically placed at the beginning of each recording made on this VCR. This index can be used to search for the next (or present) recording.



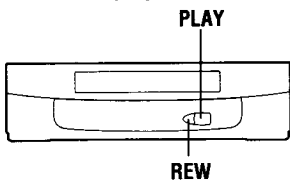
- Make sure that indexes are at least five minutes apart from each other.
- Index signals are not recorded after a recording pause.

- 1 Press the **INDEX** button while in the stop or playback mode.
To cancel the index search mode, press the **INDEX** button again.

- 2 Press the **FF** or **REW** button.
To stop the search function, press the **STOP** button.
 - Playback will start automatically when an index is found.

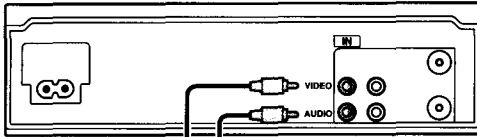


For Endless play

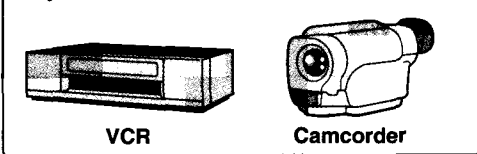


Dubbing starts automatically with input of the playback signal, ensuring synchronization of the two units.

Recording VCR



Playback VCR (Camcorder)



- ☐ Turn on the TV.
Set the TV to the video channel. If using an AV-cable, set it to AV mode.

- ① Connect the two units as shown in the illustration above.

Recording VCR

- Insert a video cassette with erasure-prevention tab.
- ② Press the **INPUT** button to select the external input mode "L1" instead of the programme position number.

Playback VCR (Camcorder)

- Insert a video cassette to be dubbed.
- ③ Select the point to start playback.

Synchro dubbing

Recording VCR

- 1 Turn off the VCR using the **⏻/I** button.
- 2 Press and hold the **PAUSE/STILL** button on the VCR at least for 3 seconds.
 - The VCR goes into synchro dubbing standby mode. The "REC" indicator is flashing on the VCR display.

Playback VCR (Camcorder)

- 3 Start playback.
 - Recording starts automatically as soon as playback commences.
 - If playback is stopped, the VCR returns to synchro dubbing standby mode.

To avoid recording an unwanted passage, press the **PAUSE/STILL** button on the Recording VCR when the unwanted passage is reached.

- The VCR goes into recording pause.

To continue recording, press the **REC** button.

- 4 When finished, press the **STOP** button on both units.
 - The cassette will automatically be ejected if the **STOP** button is pressed when the recording VCR is in synchro dubbing standby mode.

Manual dubbing

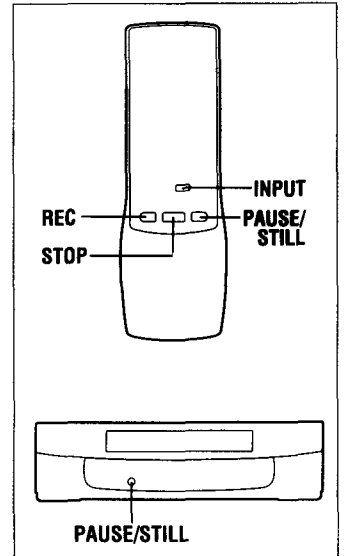
- 1 At the same time as starting playback, start recording by pressing the **REC** button on the Recording VCR.

To avoid recording an unwanted passage, press the **PAUSE/STILL** button on the Recording VCR when the unwanted passage is reached.

- The VCR goes into recording pause.

To continue recording, press the **REC** button.

- 2 When finished, press the **STOP** button on both units.



CAUTION:

The unauthorized recording of television programmes, video tapes, films and other such material may infringe upon copyright or the rights of third parties.

Symptom	Check points
POWER TROUBLE	
No power	<ul style="list-style-type: none"> • The power cord is disconnected.
The remote control unit doesn't operate	<ul style="list-style-type: none"> • The batteries are low.
RECEIVER TROUBLE	
No TV programmes received	<ul style="list-style-type: none"> • Are the connections between your VCR and TV correct? • Was tuning correctly preset?
Reception is poor when TV is on video channel	<ul style="list-style-type: none"> • The video channel setting of the TV does not correspond to the video channel presetting of the VCR.
Poor image quality when watching TV	<ul style="list-style-type: none"> • When the ECO mode is set, the aerial output from the VCR will deteriorate. When watching TV, do not set the ECO mode.
PLAYBACK TROUBLE	
Playback picture does not appear	<ul style="list-style-type: none"> • The video channel setting of the TV does not correspond to the video channel presetting of the VCR.
Interference in playback picture	<ul style="list-style-type: none"> • Adjust the tracking control. • Dust or dirt on video heads. Contact your Sanyo authorized service agent.
RECORDING TROUBLE	
No recording	<ul style="list-style-type: none"> • The erasure-prevention tab on the cassette has been removed.
Timer recording is not possible	<ul style="list-style-type: none"> • The starting day and time have not been set correctly. • There has been a power interruption of more than 1 hour.

Repairs

This VCR is a precision instrument and, if treated with care, will provide years of satisfactory performance. However, in the event of difficulty, the owner is advised not to attempt to make repairs or open the cabinet. Servicing should always be referred to your Sanyo authorized service agent.

General

Video format:	VHS PAL/NTSC 4.43
Television system:	CCIR: 625 lines, PAL colour signals
TV channel storage capacity:	88 positions
Video heads:	2 heads
Tape speed:	• PAL: 23.39 mm/s • NTSC (Playback only): 33.35 mm/s
RF converter:	Built-in UHF converter
Converter output:	28 - 69 (for Australia) 21 - 69 (for New Zealand)
Timer indication:	24-hour indication
Power failure backup:	Approx. one hour
Timer recording:	1 year 6 programmes with everyday and weekly recording function
Power requirement:	220-240 V AC, 50Hz
Dimensions (W x H x D):	360 x 97 x 273 mm
Weight:	Approx. 3 kg
Power consumption:	19 W (in operation) less than 2 W (ECO mode)

Electrical characteristics

Video input:	0.5 - 2.0V(p-p), 75 ± 5 ohms
Video output:	1.0 ± 0.2V(p-p), 75 ± 5 ohms
Audio input:	-8.0 dBs, more than 47 kohms
Audio output:	-8.0 dBs, less than 2.2 kohm
Video S/N:	More than 43 dB
Horizontal resolution:	More than 240 lines

Appearance and specifications are subject to change without notice.

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SANYO

SANYO Electric Co., Ltd.
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