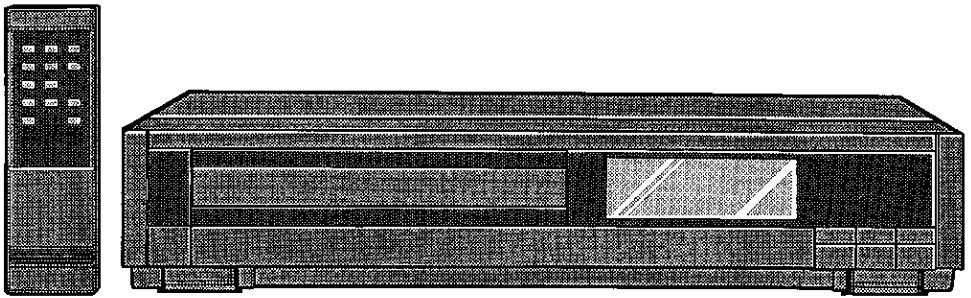


SANYO

Instruction
Manual

Video cassette
recorder

VHR-4100



VHS HQ
PAL

Congratulations. You are now the owner of a SANYO Video Cassette Recorder. Please read these instructions before operating the VCR.

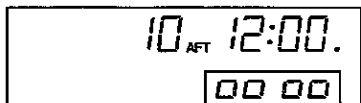


- This VCR is based on a PAL-VHS signal system. Only video cassettes bearing the **VHS** symbol can be used.
- Video cassette recorders bearing the "HQ" mark incorporate VHS high quality picture technology. Note that there is interchangeability with former VHS video cassette recorders.

DEW SENSOR

When operating the VCR, always pay attention to the following.

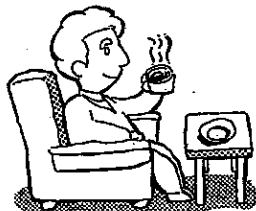
- If the DEW indicator (□□□□) illuminates, delay all operations until the DEW indicator goes off.
- Because condensation will form gradually, the DEW indicator may not illuminate immediately when the temperature or humidity has changed abruptly, even though dew has formed inside the VCR.
- Therefore, when operating a VCR under conditions for forming condensation such as an abrupt change of temperature or humidity, wait approximately 20 minutes until condensation is confirmed not to have formed.



DEW indicator

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PRECAUTIONS

WARNING:

This Instruction Manual has been prepared for use with products for use in both Australia and New Zealand. In those places in the manual where descriptions, information, etc., differ for the two countries, both are provided and described as such, so the reader should take care to read the applicable part.

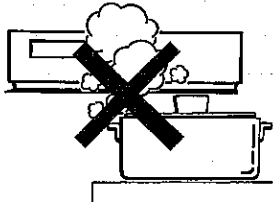
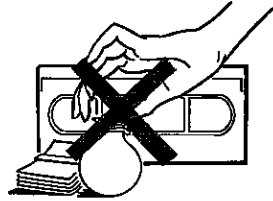
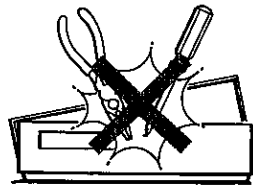
COUNTRY	TV CHANNEL
AUSTRALIA	AUST. CH—0 or CH—1
NEW ZEALAND	N.Z. CH—2 or CH—3

OPERATING PRECAUTIONS

- Removing the cabinet and touching the inside of the VCR with your hand, a screwdriver, or anything else, is not only harmful to the unit, but is also dangerous.
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.
- The unauthorized recording of television programmes, video tapes, films and other such material may involve infringement of copyright or the rights of third parties.
- Be sure to use this VCR only in a temperature range of 5°C to 35°C and less than 85% humidity.
- This VCR is sensitive to magnetism. Do not expose to a magnetic source.
- Place the VCR on a flat, stable, level surface. Never subject it to violent shaking or any other shock or impact.
- Do not block the air vents that are provided to prevent the temperature inside the VCR from rising excessively.

The power on/off (**STOP**) button of this VCR is a secondary circuit, and does not disconnect the unit from the AC power source, even if the button is in the stand-by position, as long as the power cord is connected to AC electrical outlet.

NOTE: Stand-by is the condition in which the digital display becomes dimmer and the date and time are displayed.



FEATURES

- VHS high quality picture technology
- 39-position voltage synthesizer tuner
- Infra-red remote control
- Built-in 1 year, 8-event timer with every day function
- QSR (Quick Start Recording) timer
- Linear time counter
- Forward and reverse picture search
- Still picture playback
- Frame advance playback
- Lesson repeat playback
- Various Convenient automatic functions

Direct power on and go

When the VCR is on stand-by, press any one of the control buttons to turn on the power and perform the respective button's function.

Example: If you press the PLAY button, the VCR will be turned on and start playback.

Note: This function is not provided for the REC button. This is to prevent the VCR from being put into a video recording condition unintentionally.

Auto power stand-by

The VCR will be turned off automatically five minutes after finishing operations.

However, if the last thing you did was select a channel, the power will remain on and it should be turned off manually with the STOP button.

Self power on

The power is automatically switched on as a cassette is inserted even when the VCR is in the stand-by condition.

MEP (Miss Erasure Prevention)

EJECT

A video 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 at the end of the tape.

Auto rewind eject

If you press the EJECT button while keeping the REW button pressed, the VCR will automatically eject the cassette after rewinding the tape.

Auto rew-play

If both the REW and PLAY buttons are pressed at the same time, the VCR will playback the tape automatically after rewinding has been completed. When controlling the VCR with the remote control unit, press the REW-PLAY button on the unit.

Auto play

The VCR will playback 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.

Off power eject

A video cassette will be ejected when the EJECT button is pressed even when the VCR is in stand-by condition.

Auto-timer stand-by

If timer setting is completed, VCR's power is automatically switched off and is put into the timer stand-by mode.



CONNECTIONS

ANTENNA CONNECTION

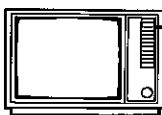
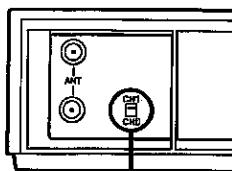
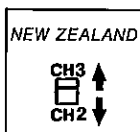
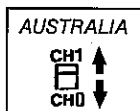
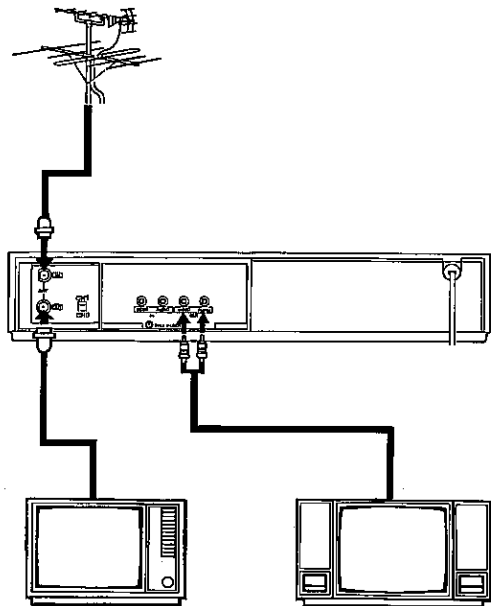
- Unplug the antenna cable from your TV receiver and reconnect to the terminal marked "ANT IN" on the VCR.
- Connect the antenna cable supplied as an accessory of the VCR to the "ANT OUT" terminal on the TV receiver. Connect the other end of this antenna cable to the TV receiver.
- Insert the plug of the power cord into the wall socket.

AV-CONNECTION (Lead not supplied)

- Connect the AUDIO/VIDEO terminal on the VCR to the AV terminal on the TV receiver.
- The advantage of this connection is a superior quality of picture and sound during playback.

AV CONTROL FUNCTION

- If connections are made to an AV control compatible TV, the TV's input can be controlled at the VCR. This means that when the VCR's PLAY button is pressed, the TV input is switched automatically so that the TV functions as a video monitor.



The VCR channel
 AUSTRALIA0 or 1
 NEW ZEALAND....2 or 3

ADJUSTING THE TV RECEIVER

The VCR channel for this equipment is either channel 0 or 1 (channel 2 or 3 ... for NEW ZEALAND). Select the channel which is not being used by a television broadcasting station in the area in which the equipment is to be used. On the rear panel of the VCR is the VCR channel select switch. Set the switch to the position which corresponds to the channel to be used.

ADJUSTING THE TELEVISION'S VCR CHANNEL

Varying from television to television, the VCR channel (channel 0 or 1 ... for AUSTRALIA, channel 2 or 3 ... for NEW ZEALAND) might be considerably out of adjustment. Use the following procedure to adjust the television's VCR channel.

- 1** Turn the television power on.
- 2** Set the television to the VCR Channel.

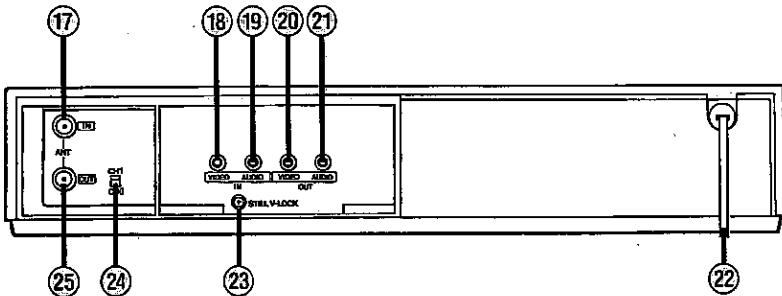
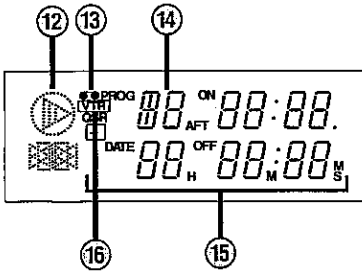
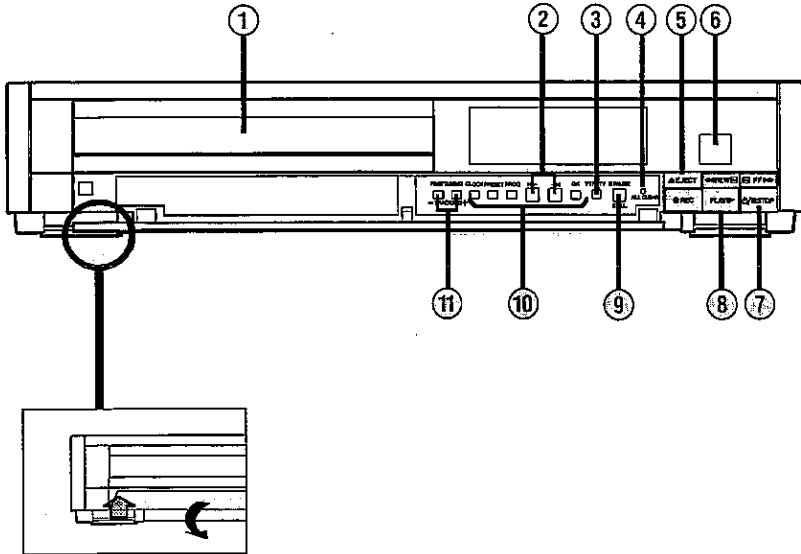
The VCR channel

AUSTRALIA.....channel 0 or 1
 NEW ZEALAND.....channel 2 or 3

- 3** Select an active TV channel by pressing a CHANNEL Button (up or down) on the VCR. If TV broadcast is not received, play back the pre-recorded tape.
- 4** Set the VTR/TV selector to the "VTR" position. "VTR" indicator will be on.
- 5** Adjust the channel tuning control on the TV (or fine tuning control) to the point at which the picture image and the audio output are best.

This is your VCR RF channel. To view video playback, always set your TV channel selector to the same channel.

PART NAMES AND FUNCTIONS



Front

- ① **Cassette loading compartment**
- ② **Channel selector buttons**
Use these buttons to select the desired channel. To select the AV input, press one of the selector buttons until "AU" appears on the display.
- ③ **VTR/TV selector**
- ④ **ALL CLEAR button**
- ⑤ **EJECT button**
- ⑥ **Remote control detector**
- ⑦ **Power on-off/STOP button (⏻/■STOP)**
The VCR will be turned off if you press the STOP button in the STOP mode.
If this button is pressed when the VCR is in a power stand-by condition, the VCR will go ON.
- ⑧ **Main functions**
- ⑨ **PAUSE/STILL button**
During playback: still picture.
During recording: pause during which no material will be recorded.
During still playback: advance the frame.
- ⑩ **Clock/Tuning/Timer controls**
- ⑪ **FINE TUNING/TRACKING controls**

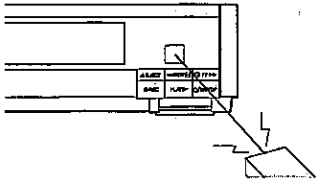
Digital display

- ⑫ **Function indicators**
- ⑬ **Cassette loading indicator**
- ⑭ **Channel position number**
- ⑮ **Clock/Timer/Counter display**
- ⑯ **VTR indicator**

Rear

- ⑰ **ANTenna INput terminal**
- ⑱ **VIDEO IN terminal**
- ⑲ **AUDIO IN terminal**
- ⑳ **VIDEO OUT terminal**
- ㉑ **AUDIO OUT terminal**
- ㉒ **Power cord**
- ㉓ **STILL V-LOCK adjustment screw**
- ㉔ **VCR channel select switch**
- ㉕ **ANTenna OUTput terminal**

REMOTE CONTROL UNIT



OPERATION

Aim the unit at the remote control detector on the front of the VCR during operation.

① Power on-off/STOP button (⏻/■STOP)

The VCR will be turned off if you press the STOP button in the STOP mode.

If this button is pressed when the VCR is in a power stand-by condition, the VCR will go ON.

② REWIND button

③ PAUSE/STILL button

④ Auto REWIND-PLAYback

⑤ Counter RESET button

⑥ Channel selector buttons

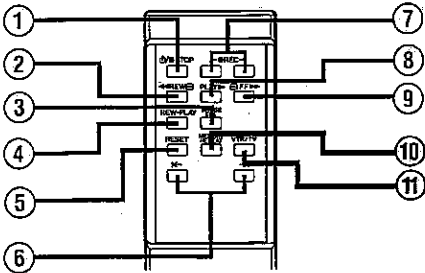
⑦ RECORDING buttons

⑧ PLAY button

⑨ Fast Forward button

⑩ Counter MEMORY/Lesson REPEAT button

⑪ VTR/TV selector



BATTERY INSERTION

1. Open the lid.
2. Insert 2 "AA" 1.5 volt batteries (sold separately) as indicated by the (+) and (-) signs.
3. Replace the lid.

Notes:

- If the remote control unit is not to be used for a long period of time, remove the batteries.
- The battery life under normal operating conditions is about one year. If the batteries become weak, the operable distance will decrease; when this occurs, replace the batteries.
- Operate the remote control unit within a range of approx. 60° from the front of VCR.
- Operate unit within approx. 6 m (20 ft.) from the front of VCR.

CLOCK SETTING

Using the the ← or → button, bring up the flashing indication, then press the OK button to bring up the next indication.

Example: 9:30 December 10, 1988

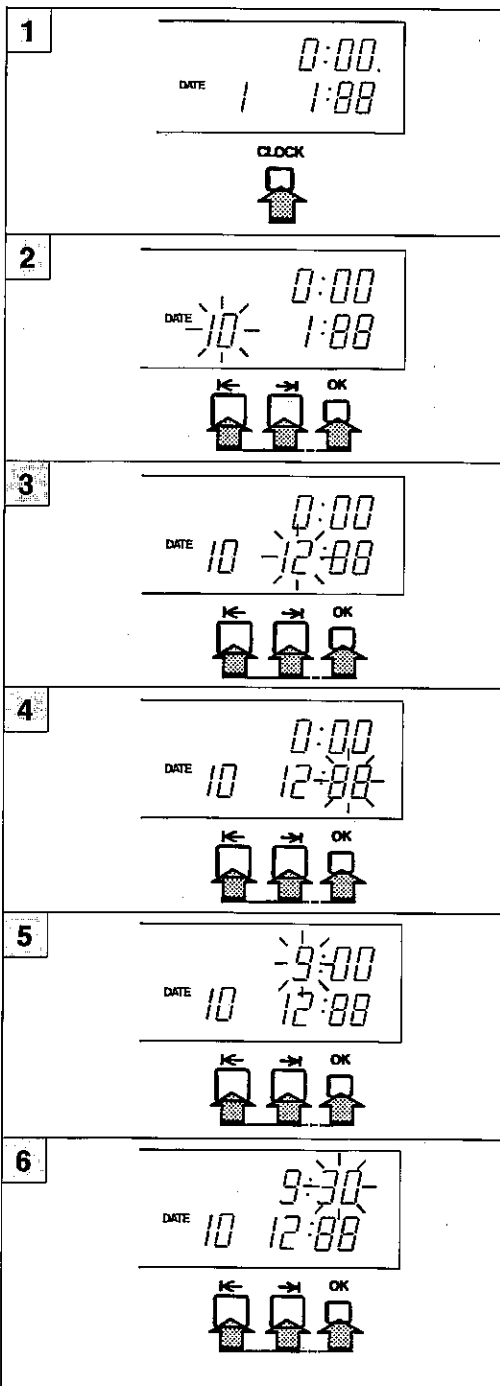
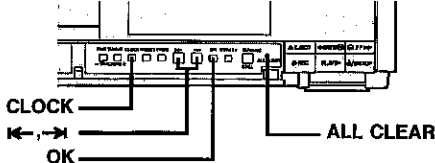
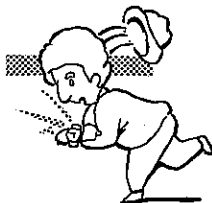
- 1 Press the CLOCK button.
- 2 Set the DAY with the ← or → button.
Example: DAY = 10
Then press the OK button.
- 3 Set the MONTH with the ← or → button.
Example: MONTH = 12
Then press the OK button.
- 4 Set the YEAR with the ← or → button.
Example: YEAR = 88
Then press the OK button.
- 5 Set the HOUR with the ← or → button.
Example: HOUR = 9
Then press the OK button.
- 6 Set the MINUTE with the ← or → button.
Example: MINUTE = 30

For zero second setting, press the OK button at the same time as an announced time signal. The seconds will begin counting from "00" at the moment the OK button is pressed.

ALL CLEAR FUNCTION

When pressing the ALL CLEAR button, the digital display will read "88:88", so that the current time and the desired times for recording programmes can be reset.

- If no function buttons operate normally, press the ALL CLEAR button and try again.
- Pressing the ALL CLEAR button will delete all stored information. Date time and programme timing will then need to be reset.



TUNING CONTROL ADJUSTMENTS

Check before starting

- Set the channel selector of your TV receiver to the VCR operating channel (channel 0 or 1 for AUSTRALIA, channel 2 or 3 for NEW ZEALAND)

Example: To preset UHF channel "23" to channel position number "12".

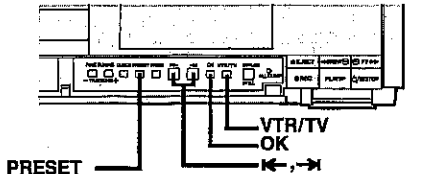
- 1 Set the VTR/TV selector to the "VTR" position. ("VTR" indicator will be on.)
 - 2 Press the tuning PRESET button.
 - 3 Select the desired channel position number (**Example:** "12") by pressing the \leftarrow or \rightarrow button. Then press the OK button.
 - 4 Select "L", "H" or "U" (**Example:** U) by pressing the \leftarrow or \rightarrow button. Then press the OK button.
- When the \leftarrow or \rightarrow button is pressed, the character "L", "H", "U" or "S" (skip) will be sequentially displayed as a band indicator.

Band Indicator	Channel-Range	
	For AUSTRALIA	For NEW ZEALAND
L	0-5	1-3
H	5A-11	4-11
U	21-65	21-65
S	Skip Function (See page 10)	

- 5 When the \leftarrow or \rightarrow button is pressed, a channel being used for broadcast will be automatically found.
Note: Since the lowest position of the band becomes the tuning point when a band has been selected, at the beginning please push the \rightarrow button and then start searching for the channel.
 When a channel is located by channel searching, the same search stops and the channel indicator changes from blinking to steady illumination, and at the same time, "AFT" indicator illuminates. Check the TV screen to confirm that the located channel is the channel you want and, if it is, proceed to step 6. If it is not, repeat step 5.

- 6 Press the OK button, and the station selected is memorized.
 When presetting another channel position number display, repeat steps 3 to 6 by following the same procedure.

- 7 When the PRESET button is pressed, the display will return to the normal display.



PRESET

2_{AFT}

U -

2

PRESET

12_{AFT}

U -

3

\leftarrow

\rightarrow

OK

PRESET

12

U -

4

\leftarrow

\rightarrow

OK

PRESET

12_{AFT}

U -

5

\leftarrow

\rightarrow

OK

13_{AFT}

U - - -

6

PRESET

13_{AFT} 9:30.

0_H 00_M 00_S

7

PRESET

13_{AFT} 9:30.

0_H 00_M 00_S

9

SKIP FUNCTION

The skip function gives you the possibility to jump the unused channels.

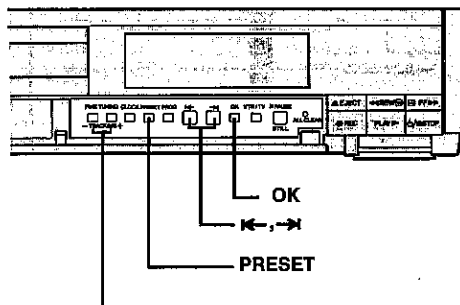
Example: To skip channel position number "10".

- 1 Press the PRESET button.
- 2 Press the ← or → button to select the channel position number (**Example:** "10") to be skipped. Then press the OK button.
- 3 Press the ← or → button until the band indicator shows "S".
Note: "S" denotes SKIP.
To cancel the SKIP mode, press the ← or → button once again to select the band to be received, and then preset once again (see page 9).
- 4 Press the OK button.
- 5 When the PRESET button is pressed, the display will return to the normal display.

CHANNEL FINE TUNING

For the preset channels, the received picture is automatically optimized in the AFT on condition, but it may happen that reception can be somewhat improved, if signals are weak or if the channel is disturbed by interference, by fine tuning with the AFT off.

- 1 Press the ← or → button to select the unsatisfactory channel.
- 2 Press the PRESET button.
- 3 Press the FINE TUNING/TRACKING (- or +) button until the best possible picture and sound are obtained. When the FINE TUNING/TRACKING button is pressed the AFT indicator is turned off, and the fine tuning can then be made.
- 4 Then press the PRESET button.
Note: To reset AFT from "off" to "on", press the PRESET button once, select the channel position number, press the OK button, and once again press the PRESET button.
If the AFT isn't reset to "on" despite performing the above operation, preset it once again (see page 9).



FINE TUNING/TRACKING

CASSETTE LOADING AND UNLOADING

LOADING

When a video cassette is inserted, it will be loaded automatically and the cassette indicator will illuminate.

UNLOADING

The video cassette will be unloaded when the EJECT button is pressed.

ERASURE-PREVENTION TAB

If the erasure-prevention tab on the back of the video cassette is removed, it cannot be recorded. This tab is designed to prevent the accidental erasure of recorded material. (The tab should be snapped off at its base, and removed completely.)

To record onto the same cassette again, place two layers of adhesive tape over the space where the tab was, so as to cover the space completely.

COUNTER MEMORY

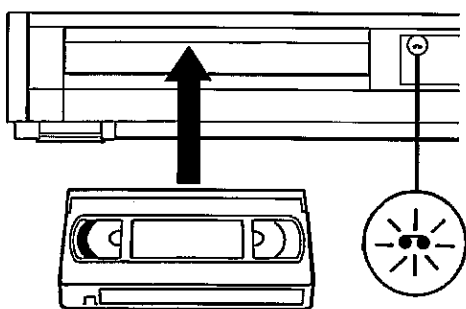
The convenient feature for finding the beginning of a specific recording etc., is made possible by the "Linear Timer Counter" that indicates the tape running time.

- Whenever you load a cassette tape, the counter will be reset to "0h 00m 00s".
- The counter operates using control signals which are recorded on the tape, hence if you playback a tape which has nothing recorded on it, the counter will not operate.

1 Press the RESET and MEMORY/REPEAT buttons of the remote control unit before starting recording or playback. The zero point of timer is now memorized and the memory indicator "M" will illuminate.

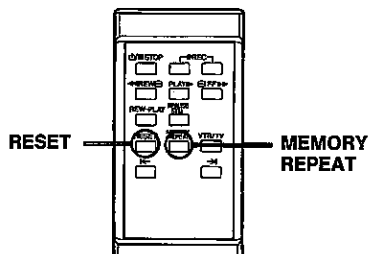
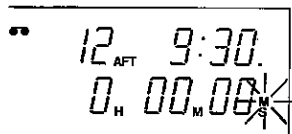
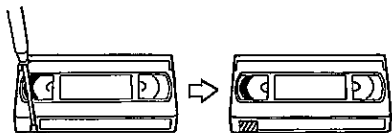
- Note that if you press the MEMORY/REPEAT button during playback, the unit will enter the Lesson Repeat mode (page 16).

2 When the REW button is pressed at the end of recording, or playback, tape will be re-wound automatically to the memorized position and then stop.



CAUTION:

Do not put your hand or other objects behind the cassette door because of the risk of injury or an accident. Particularly keep small children away from the VCR.



RECORDING TELEVISION BROADCASTS

Check before starting

■ Set the channel selector of your TV receiver to VCR operating channel (channel 0 or 1 for AUSTRALIA, channel 2 or 3 for NEW ZEALAND).

- 1 Insert a video cassette.
- 2 Set the VTR/TV selector to the "VTR" position. ("VTR" indicator will be on.)
- 3 Press the ← or → button for the channel to be recorded.
- 4 Press the REC button.
- 5 To stop the recording, press the STOP button.

QUICK START RECORDING (QSR) TIMER

If ending time for recording is set within 10 seconds after normal recording has started, the VCR will be set in QSR timer recording mode. Set the ending hour/minute by the REC and ←, → buttons.

Example: 10:45

REC button: by 30 minutes

← button: reduce by 1 minute

→ button: advance by 1 minute

Check/change

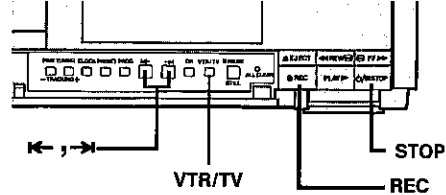
When the REC button is pressed during QSR recording, QSR ending time will be displayed for 10 seconds. The QSR ending time can be changed by pressing the REC or ←, → buttons during this 10 seconds period.

Note: When starting to record a picture, after you press the REC button, press the → button once and then press the ← button once in order to get "QSR --:--" on the display. If you do this, the "Auto rewind" function doesn't operate (to prevent recording over an already used tape).

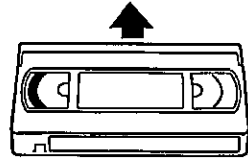
RECORDING ONE PROGRAMME WHILE WATCHING ANOTHER

Set the VTR/TV selector to the "TV" position. ("VTR" indicator will go off.)

You can view another TV programme while recording, by simply selecting the programme you want to view with the TV's channel selector.



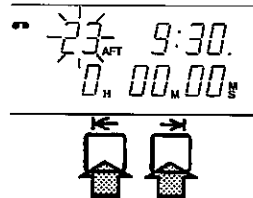
1



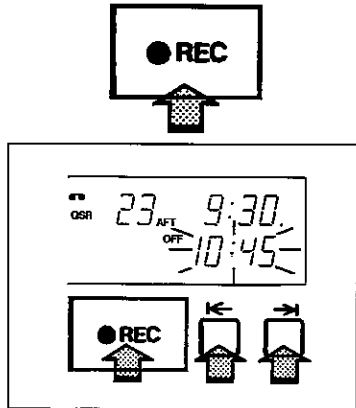
2



3



4



5



CAMERA RECORDING

- VCR cannot be put into pause mode by operating the camera trigger switch.

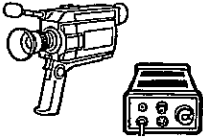
Check before starting

- Set the channel selector of your TV receiver to VCR operating channel (channel 0 or 1 for AUSTRALIA, channel 2 or 3 for NEW ZEALAND).
- Insert the video cassette.
- Press the \leftarrow or \rightarrow button so that "AU" appears on the position number display ("AV" input).
- Set the VTR/TV selector to the "VTR" position. ("VTR" indicator will be on.)

- 1 Turn on the power of the video camera and adjust the focus, white balance, etc..

- 2 Press the REC button on the VCR.

- 3 To stop the recording, press the STOP button on the VCR.



2

DUBBING

You can monitor a programme while dubbing by connecting a TV to the VCR 2's ANT OUT terminal.

- 1 Connect VCR 1 and VCR 2.

- 2 Insert the pre-recorded tape into the VCR 1.

- 3 Insert the blank video cassette into the VCR 2.

- 4 Press the VCR 2's \leftarrow or \rightarrow button so that "AU" appears on the position number display ("AV" input).

- 5 Press the PLAY button on the VCR 1, and then press the REC button on the VCR 2.

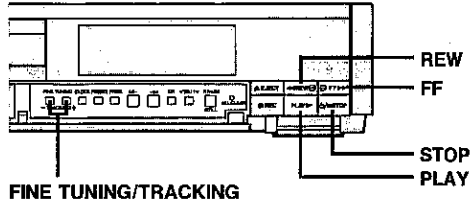
1

PLAYBACK

Check before starting

- Set the TV channel to VCR operating channel (channel 0 or 1 for AUSTRALIA, channel 2 or 3 for NEW ZEALAND).

- 1 Insert the video cassette.
- 2 Press the PLAY button.
- 3 To stop the playback, press the STOP button.
 - To rewind the tape, press the REW button.
 - To advance (fast-forward) the tape, press the FF button.



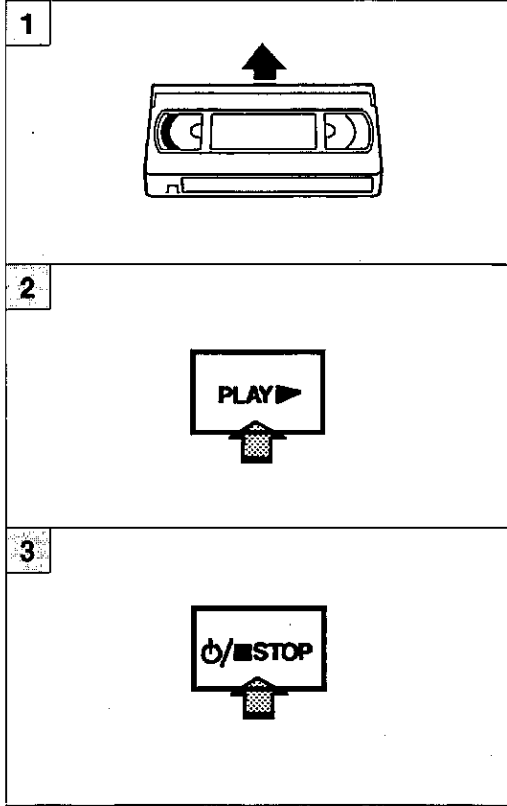
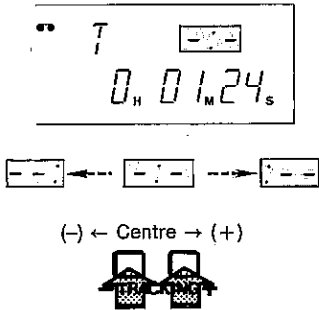
TRACKING ADJUSTMENT

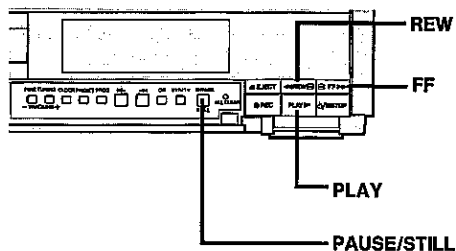
If the playback picture shows "noise" interference, adjust the FINE TUNING/TRACKING (-, +) control buttons to minimize the "noise".



"Noise" interference

Tracking condition will be displayed as follows:





FORWARD SEARCH

- Press the FF button during playback or fast-forward operation. The picture can be viewed while the tape is advanced at a fast speed.
- Normal playback will resume as the PLAY button is pressed.

REVERSE SEARCH

- Press the REW button during playback or rewind operation. The picture can be viewed while the tape is rewound at a fast speed.
- Normal playback will resume as the PLAY button is pressed.

You can perform fast forward, forward search, rewind, and reverse search operations by simply pressing the FF and REW buttons on this VCR. For example, each time the FF button is pressed, the VCR will change from fast forward to forward search, or vice-versa. This is extremely useful when searching for a particular scene.

STILL PICTURE

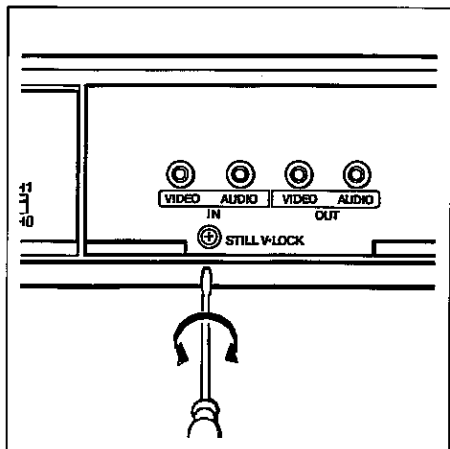
- Press the PAUSE/STILL button during playback. A still picture can be viewed.
- Normal playback will resume as the PLAY button is pressed.

FRAME ADVANCE

- Press the PAUSE/STILL button during still playback. Playback picture will advance frame by frame. One pressing advances one frame.
- Normal playback will resume as the PLAY button is pressed.

Notes:

- During the special playback (forward search, reverse search, still picture and frame advance) the picture may contain some "noise" or vibration. But this is not a malfunction.
- The picture quality for special playback (forward search, reverse search, still picture and frame advance) cannot be guaranteed with this machine.
During special playback, the colour of the TV picture may fail to be reproduced. This is not a fault, however.
- If still picture playback is continued for about five minutes, the VCR will automatically change to normal playback in order to prevent the tape from damage.
- If still picture moves up and down, turn the STILL V-LOCK adjustment screw. If VCR's STILL V-LOCK adjustment cannot remove this movement, also adjust the V-HOLD control of the TV receiver.



LESSON REPEAT

- Playback of a desired scene can be repeated five times.
- During lesson repeat, you can perform special playback such as still and frame advance (You cannot perform a reverse search).

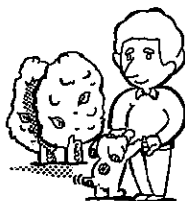
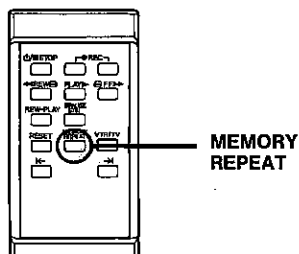
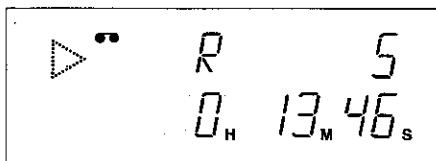
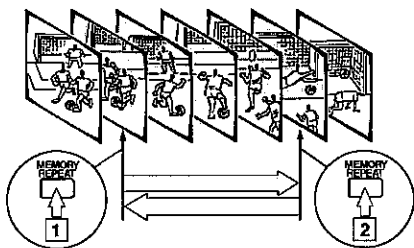
1 Locate any desired scene to view repeatedly. Press the MEMORY/REPEAT button of remote control unit at the starting point of the desired scene during playback. The "R" indicator will flash on and off. In the lesson repeat of a long scene, advance the scenes in the middle by forward search and resume PLAY mode again in order to locate the lesson repeat's ending point.

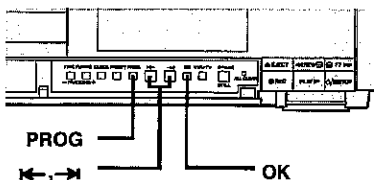
2 Press the MEMORY/REPEAT button again at the ending point of the lesson repeat during playback. The "R" indicator will light up, and then the scene will be reverse-searched to the starting point and the playback will be repeated five times. The display shows the remaining number of times for lesson repeat.

- The count of the remaining number of times during lesson repeat is judged by the number of times the tape end was reached in the Playback mode.
- You can reset the number of times the above operation is repeated (maximum of 5 times) by pressing the MEMORY/REPEAT button.

Cancel

The lesson repeat is cancelled when the PLAY button is pressed during lesson repeat.

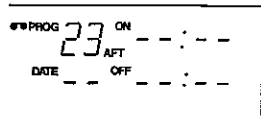




TIMER RECORDING

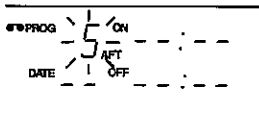
Example: Reserve channel 5 from 9:30 PM to 11:15 PM on December 24, 1988.

- Insert a video cassette (with erasure-prevention tab).

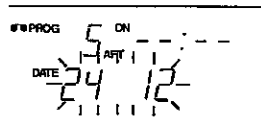


1

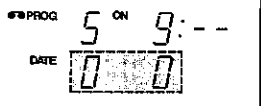
PROG



2



3



- 1 Press the PROG button.

- 2 Set the CHANNEL with the **←** or **→** button.
Example: channel 5
Then press the OK button.

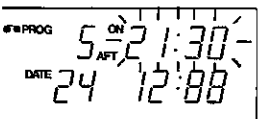
- 3 Set the DAY with the **←** or **→** button.
Example: 24
Then press the OK button.
Set the MONTH with the **←** or **→** button.
Example: 12
Then press the OK button.
When month has been set, the year will be displayed automatically.

Everyday recording

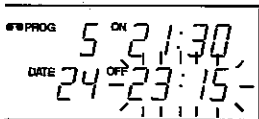
By making the day setting of step 3 equal to "00", the day and month display will become "00" to enable everyday recordings.

- 4 Set the ON-HOUR with the **←** or **→** button.
Example: 21
Then press the OK button.
Set the ON-MINUTE with the **←** or **→** button.
Example: 30
Then press the OK button.

- 5 Set the OFF-HOUR with the **←** or **→** button.
Example: 23
Then press the OK button.
Set the OFF-MINUTE with the **←** or **→** button.
Example: 15
Then press the OK button.



4



5



- 6 This completes the setting of timer-controlled recording and the VCR will resume automatically to the timer stand-by mode. Timer indicator () will be on. To set other time recording settings, repeat steps 1 to 5.

PROGRAMME CHECK

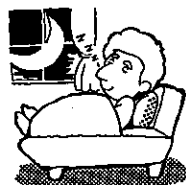
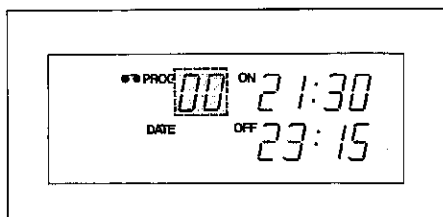
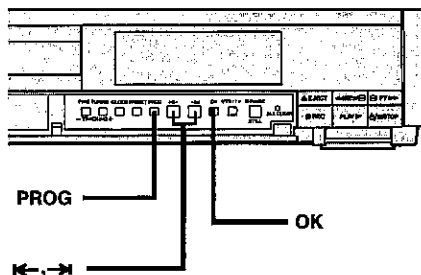
- 1 When the PROG button is pressed the programme, day, on-time and off-time will be displayed successively.
- 2 The day/month will be displayed by pressing the OK button twice in the step 1 condition.

PROGRAMME CHANGE

- 1 Press the PROG button until the programme desired to be changed, is displayed.
- 2 Press OK button until the number desired to be changed is blinking.
- 3 Press the ← or → button and correct the number.
Use the OK button to skip displays which do not need to be changed.

PROGRAMME CANCELLATION

- 1 Press the PROG button until the programme to be cancelled appears.
- 2 Press the OK button.
- 3 Set the channel display to "00" with the ← or → button.
- 4 Press the OK button.



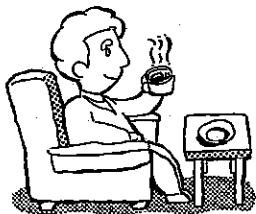
REPAIRS

This VCR is a precision instrument and 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 servicing dealer or SANYO Authorized Warranty Station.

TROUBLESHOOTING

This VCR is highly sophisticated. It is shipped from the factory after having been checked and adjusted under the most rigid quality control and inspection system. Should problems occur, check the following points.

Symptom	Check points
No power	<ul style="list-style-type: none">• The power cord is disconnected.
No off the air programmes	<ul style="list-style-type: none">• Are the connections between your VCR and TV correct.• Off the air reception on the VCR is poor.• The TV channel selector has not been set to VCR operating channel (channel 0 or 1 for AUSTRALIA, channel 2 or 3 for NEW ZEALAND).
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.• The clock time is not set correctly.• There has been a power interruption.
Playback picture does not appear	<ul style="list-style-type: none">• The TV channel selector has not been set to VCR operating channel (channel 0 or 1 for AUSTRALIA, channel 2 or 3 for NEW ZEALAND).
Interference on playback picture	<ul style="list-style-type: none">• Adjust the TRACKING control.• Dust and dirt on video heads. <p>Take the VCR to an Authorized Service Station or dealer.</p>



SPECIFICATIONS

General

Video format: VHS PAL
 Television system: CCIR: 625 lines, PAL colour signals
 Recording system: Rotary two heads helical-scan system
 Tape speed: 23.39 mm/sec
 Recording/Playback time: 240 minutes with E-240
 Tuner input:

For AUSTRALIA	For NEW ZEALAND
VL: 0 — 5	VL: 1 — 3
VH: 5A — 11	VH: 4 — 11
U: 21 — 65	U: 21 — 65

RF converter: Built-in VHF converter
 Converter output: On channel 0 or 1.... AUSTRALIA
 On channel 2 or 3.... NEW ZEALAND
 Timer indication: 24 hour indication
 Power failure backup: Approx. five minutes
 Timer recording: 1 year 8 programmes with every day function
 Power requirement: AC 240 V \pm 10%, 50 Hz
 Dimensions (W x H x D): 420 x 79 x 317 mm
 Weight: 5.9 kg
 Power consumption: 30 W

Electronic characteristics

Video input level: 0.5 — 2.0 Vp-p
 Video input impedance: 75 \pm 5 ohms
 Video output level: 1.0 \pm 0.2 Vp-p
 Video output impedance: 75 \pm 5 ohms
 Video S/N: Luminance: more than 43 dB
 Resolution: Colour: more than 240 lines
 Audio input level: -20 dBs
 Audio input impedance: More than 50 kohms
 Audio output level: -8 dBs
 Audio output impedance: Less than 10 kohms

Remote control unit

Power requirements: 3 V (two "AA" size, 1.5-volt batteries)
 Dimensions: 50 (W) x 18 (H) x 160 (D) mm
 Weight: Approx. 100 g (with batteries)

Accessories

Instruction manual 1
 Antenna output cable 1
 Remote control unit 1
 "AA" size, 1.5 volt batteries 2

Appearance and specifications are subject to change without notice.



1AC6P10A03500
DP1/A,NZ (0636SY01)

SANYO

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