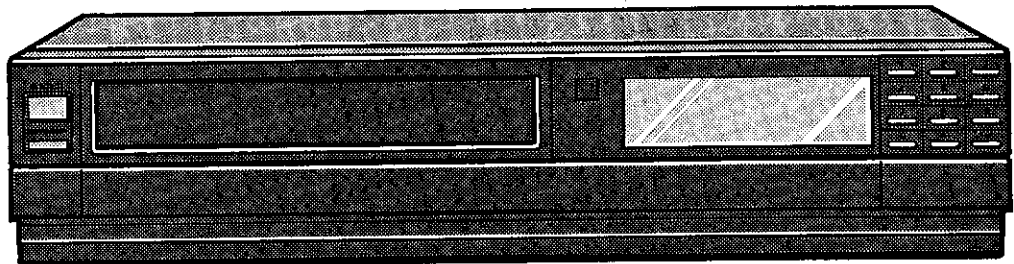
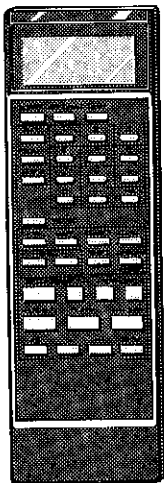


INSTRUCTION
MANUAL

SANYO

VHR-3500

VIDEO CASSETTE RECORDER



VHS **HiQ**
PAL

Congratulations. You are now the owner of SANYO Colour Video Cassette Recorder. Please read this instruction before operating the VCR.



- This VCR is based on a PAL-VHS signal system. Only video cassette 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.

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CAUTIONS

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 with 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 button of this set is a secondary circuit, and does not disconnect the set 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.

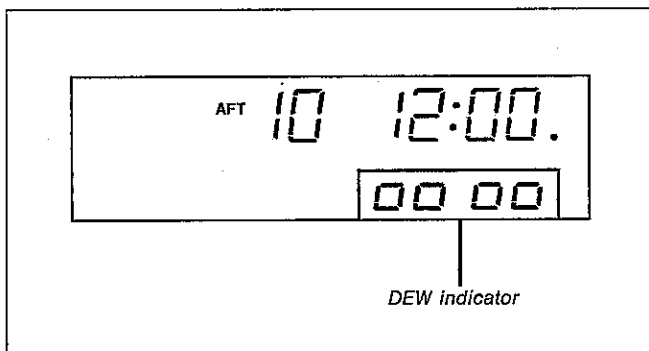
DEW SENSOR

What is DEW (CONDENSATION)?

When a cup of ice water is brought into a warm room, drops of water will form on the cup's exterior. This phenomenon is called "DEW" or condensation. This is the same phenomenon as when water drops form on the inside of a VCR. If dew has formed inside the VCR, the DEW indicator ("00 00") will illuminate, and the unit will become inoperative

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

- If DEW indicator ("00 00") illuminates, stop 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 such conditions where forming of condensation is due to an abrupt change of temperature or humidity, wait approximately 20 minutes until condensation is confirmed not to form.



FEATURES

- VHS high quality picture technology
- 32-position voltage synthesizer tuner
- Multi-function infra-red remote control
- Built-in 1 year, 6-event timer with every day function
- QSR (Quick Start Recording) timer
- Linear time counter
- Tape remainder
- Forward and reverse colour picture search
- Still picture playback
- Frame advance playback
- Double (x2) speed playback
- Slow-motion playback
- Lesson repeat playback
- Index/Address search system
- Go to search function
- Various convenient auto functions

SELF POWER ON

The power is automatically switched on as a cassette is inserted even when the VCR's power switch is in STAND BY position.

MEP (Miss Erasure Prevention) EJECT

A video cassette will automatically be ejected if recording is attempted using a video cassette where the erasure-prevention tab has been removed.

AUTO REWIND

The VCR automatically rewinds the tape at the end of tape.

AUTO REW-PLAY

If both the REW and PLAY buttons are pressed at the same time, VCR will start playback automatically at the end of tape rewind. When controlling the VCR with remote control unit, press the REW-PLAY button on the unit.

AUTO PLAY

The VCR will start playback automatically when a video cassette is inserted where the erasure-prevention tab has been removed.

OFF POWER EJECT

A video cassette can be removed when the EJECT button is pressed even with VCR's power switch in STAND BY position.

AUTO-TIMER STAND BY

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

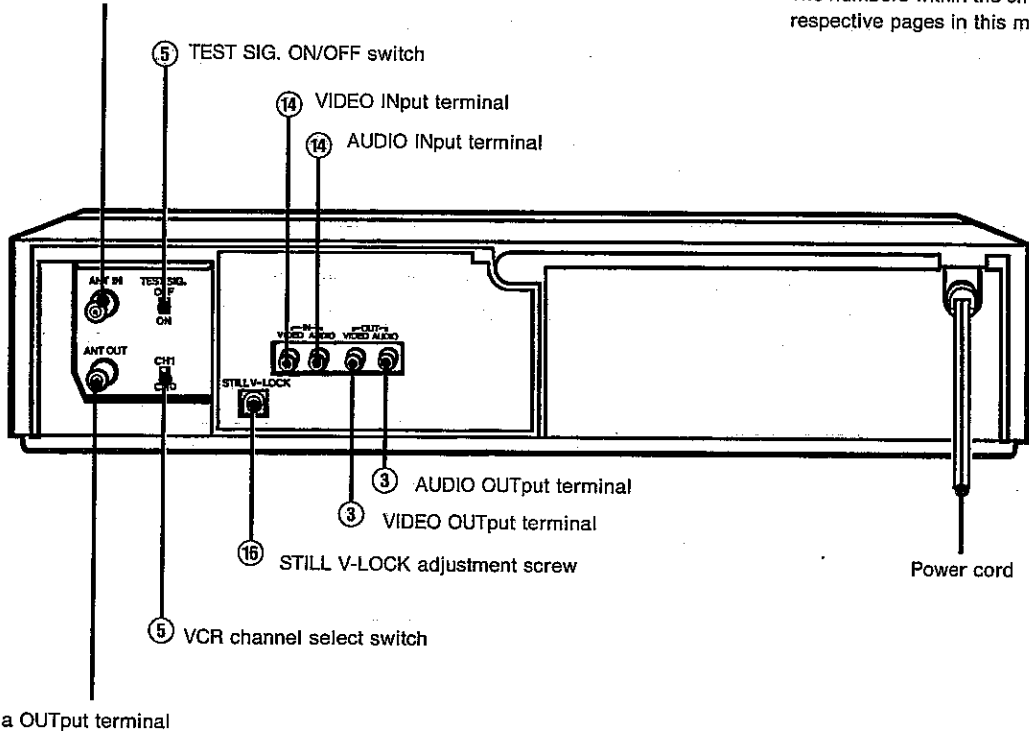
WARNING:

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

ANTenna INput terminal

The numbers within the circles (○) refer to the respective pages in this manual



ADJUSTMENT ON THE TV RECEIVER

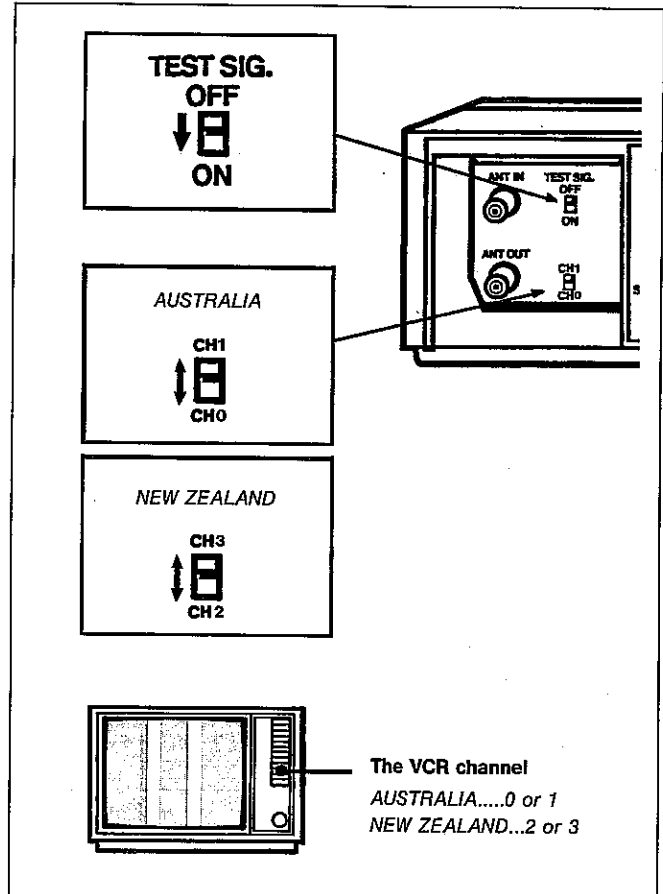
The VCR channel for this equipment is either channel 0 or 1 (channel 2 or 3 ... for NEW ZEALAND). Select the channel which is not being used by a television broadcasting station in the area in which the equipment is to be used. On the rear panel of the VCR is the VCR channel select switch. Set the switch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

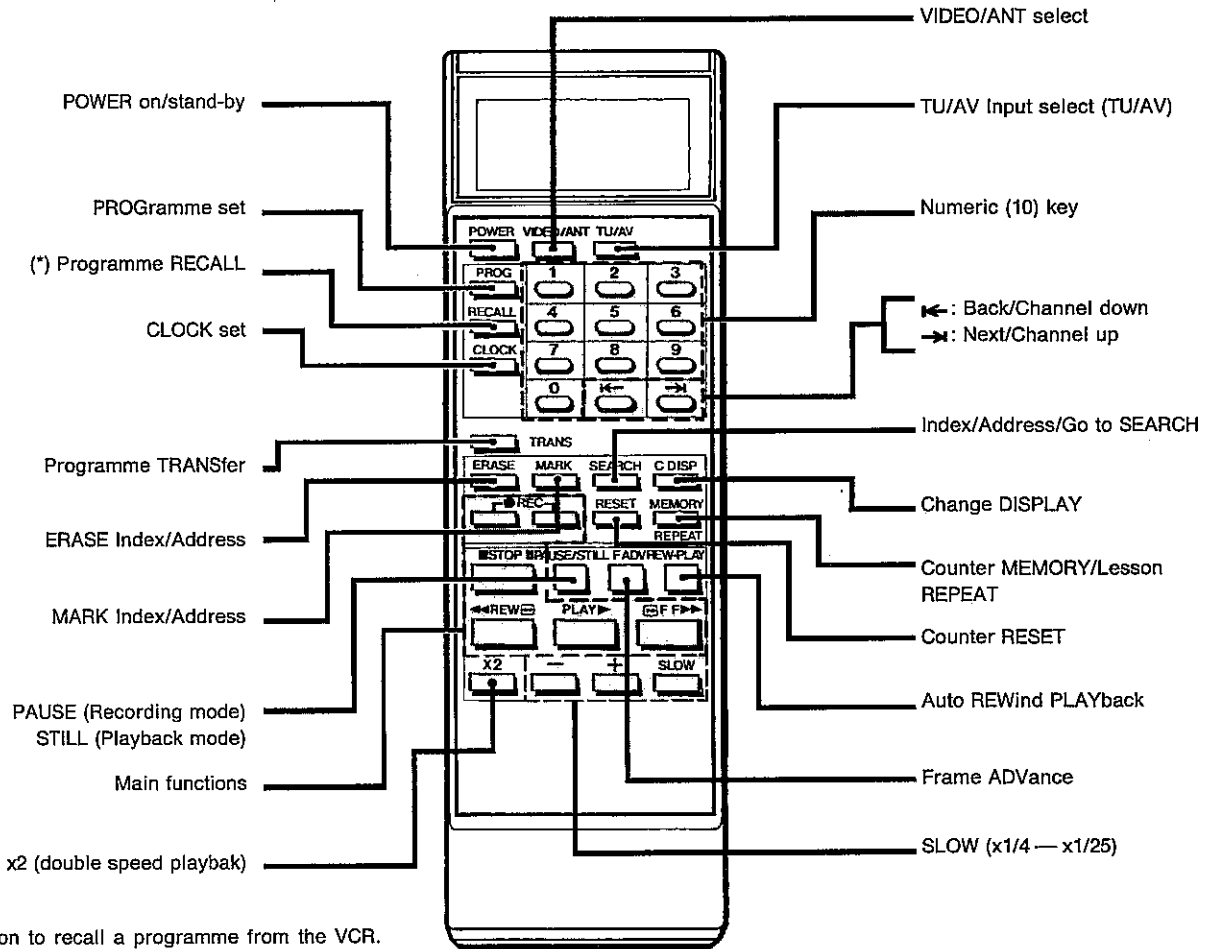
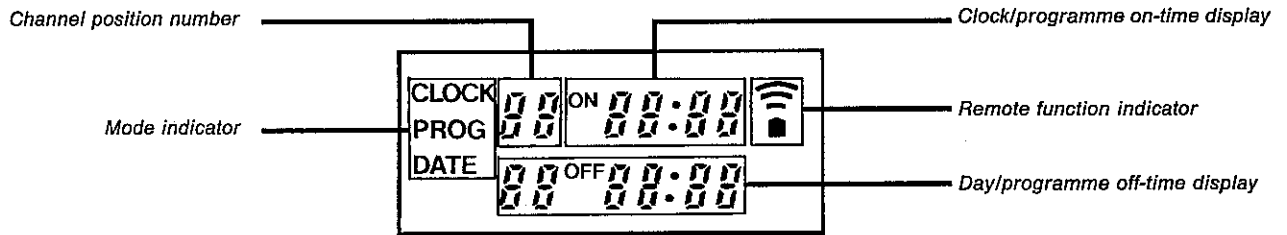
- 1** Set the TEST SIG. switch to "ON" position.
- 2** Set the VIDEO/ANT selector to the "VIDEO" position. VTR indicator will be on.
- 3** Adjust one of the unused channel selectors of the TV to the range of the VCR channel until a test picture is clearly displayed on the TV screen.
- 4** Reset the TEST SIG. switch to "OFF".

The VCR channel	
AUSTRALIA	channel 0 or 1
NEW ZEALAND	channel 2 or 3



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

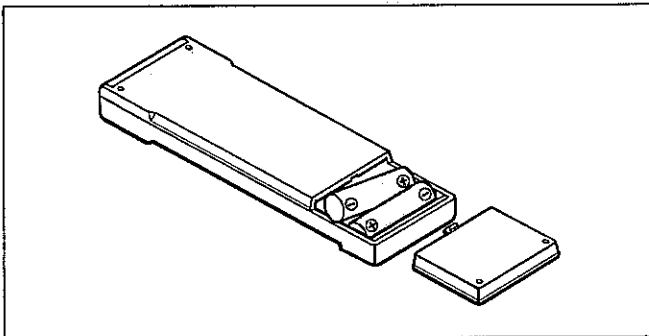
REMOTE CONTROL UNIT



(*) Use this button to recall a programme from the VCR.
The recalled programme is not shown on the display of the remote control unit.

BATTERY INSERTION

Insert two "AA" 1.5V batteries (sold separately) as indicated by the (+) and (-) signs.



- If the remote control unit is not to be used for long period of time, remove the batteries.
- The batteries life under normal operating conditions is about six months. If the batteries become weak, the operable distance will decrease; when this occurs, replace the batteries.
- When removing the batteries, timer programmes of the remote control unit will be erased.

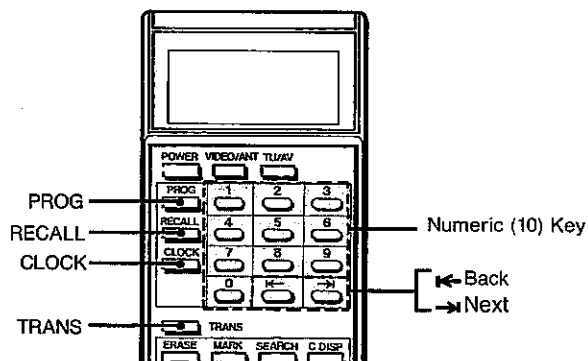
OPERATION

- The operation of the buttons on the remote control unit is similar to the operation of the VCR.
- Operate the remote control unit within the range of approx. 60° from the front of VCR.
- Operate unit within approx. 6 m (20 ft.) from the front of VCR.

CLOCK SETTING

For details, refer to "CLOCK SETTING" on page 8.

- 1** Press the CLOCK button.
- 2** Press the → button.
- 3** Using the numeric buttons, set the Hour, Minute, Day, Month, and Year.
- 4**
 - Press the CLOCK button.
 - To transfer to the VCR side, press the TRANS button.
The clock will continue to be displayed after the clock settings have been transferred to the VCR.



TIMER RECORDING

You can memorize up to four programmes in the remote control unit.

If you wish to transfer four programmes which you have set in the remote control unit, to the VCR, recall the programmes using the PROG button, then after checking them press the TRANS button. For details, refer to TIMER RECORDING on page 17.

- 1** Press the PROG button.
- 2** Using the numeric buttons, set the ON and OFF times.
- 3** Press the TRANS button.
 - If the memory of the VCR is full, the word "FULL" will be displayed on the VCR.
 - If a setting on the remote control unit is not correctly transferred to the VCR, the letters "ER" (error) will be displayed.
 - If you abandon a programme while setting it, it will be automatically cancelled.

When the remote function indicator (📶) flashes, it indicates that settings can be transferred to the VCR. If you press the TRANS button while the indicator is flashing, the settings will be transferred to the VCR.

- Because a maximum of four programmes can be memorized in the remote control unit, when the memory becomes full recall unnecessary programmes using the PROG button, then press the → button to set the channel position number display to "00". As a result of this operation, the unwanted programmes will be cancelled. So long as you do not cancel a set programme, it will remain memorized.
- You can check and change a programme memorized in the remote control unit using the same procedure as that used at the VCR. For details, refer to page 18.

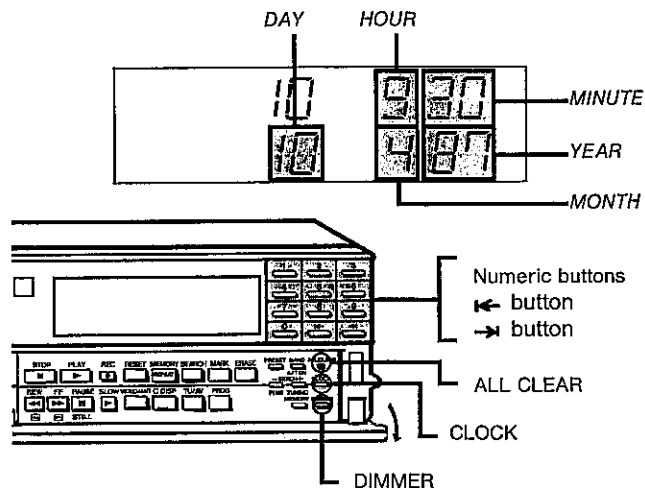
Use the RECALL button to recall a programme displayed on the VCR. After recalling a programme, you can directly change or cancel it from the remote control unit.

CLOCK SETTING

The clock can be set either at VCR or from remote control unit in the same manner. When a remote control unit is going to be used, set the time first and then press the "TRANS" button of the remote control unit.

- Clock setting can be changed by pressing the ← or → button until the desired figure flashes. Then input correct number.
- When one digit number is going to be set, press "0" first and then the desired number. (ex.: In case of 9: press "0" and then "9".)
- When setting the clock using the remote control unit, press the → button after step 1.

Example: 9:30 April 10, 1987
(Be sure to turn on the power previously.)



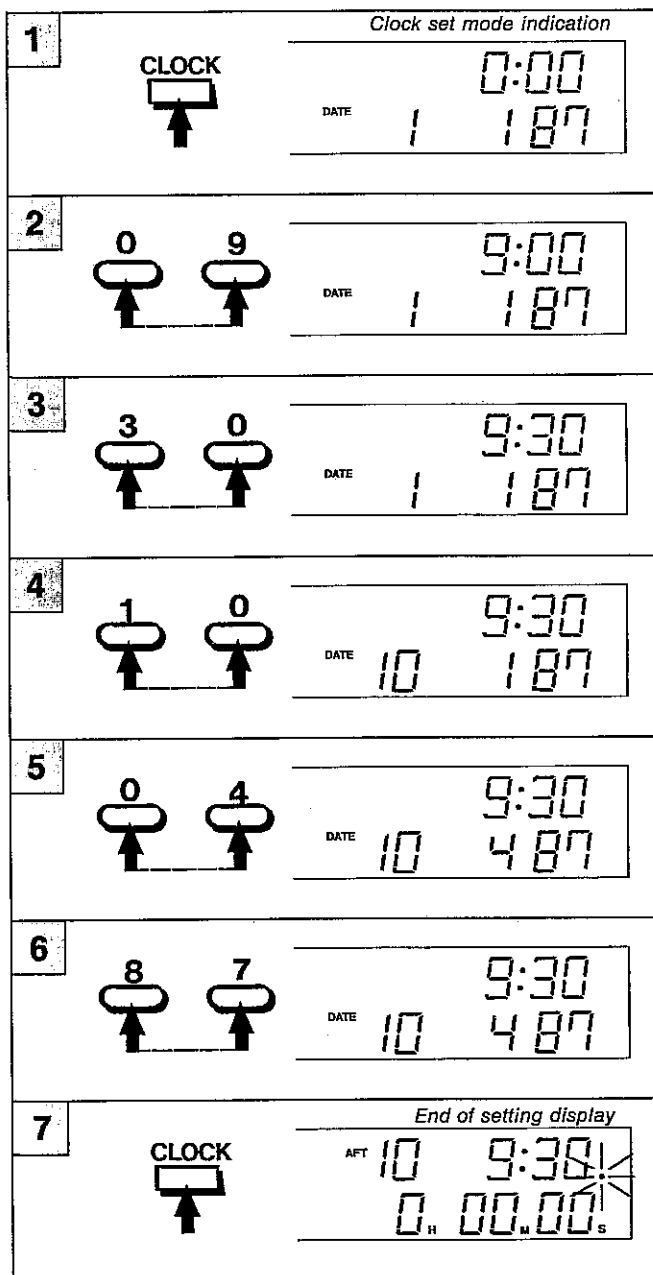
- 1** Press the CLOCK button.
- 2** Set the HOUR with numeric buttons.
Example: HOUR = 9
- 3** Set the MINUTE with numeric buttons.
Example: MINUTE = 30
- 4** Set the DAY with numeric buttons.
Example: DAY = 10
- 5** Set the MONTH with numeric buttons.
Example: MONTH = 4
- 6** Set the YEAR with numeric buttons.
Example: YEAR = 87
- 7** Pressing the CLOCK button completes all the clock setting procedures. The seconds will begin counting from "00" at the moment the CLOCK button is pressed.

DIMMER CONTROL

Dimmer function is valid only during the VCR power on. The DIMMER button can be used to change the brightness of the display. When the power is turned to off, the display will be dimmed, and when it is on, the display will be brightened.

ALL CLEAR FUNCTION

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



TUNING CONTROLS ADJUSTMENTS

This VCR has a built-in tuner that is capable of presetting 32 television channels.

- When the BAND/AFT ON button is pressed, the character "L", "H", "U" or "S" (skip) will sequentially display 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)	

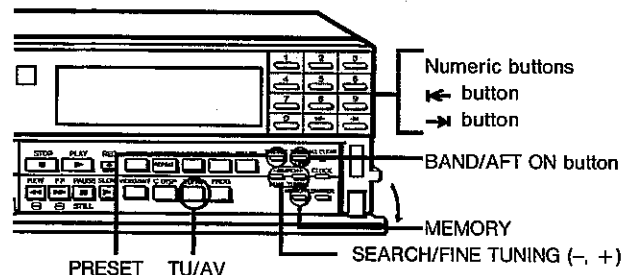
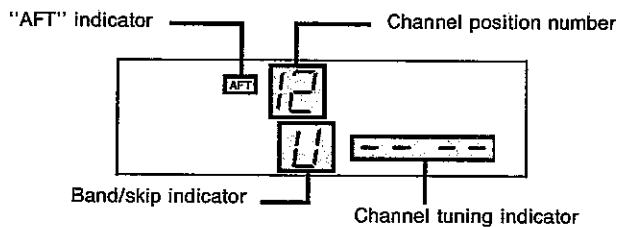
Check before starting

- Turn on the power.
- Set the TU/AV button to "TU" position.
- Set the TV channel selector to VCR operating channel (Channel 0 or 1 for AUSTRALIA, channel 2 or 3 for NEW ZEALAND).

Example: Preset UHF channel "23" to channel position number "12".

- Set the VIDEO/ANT selector to the "VIDEO" position. "VTR" indicator will be on.
- Press the tuning PRESET button.
- Select the desired channel position number by pressing the ← or → button.
Example: Position number "12"
- Select "L", "H" or "U" by pressing the BAND/AFT ON button.
Example: "U"
- When the SEARCH/FINE TUNING (- or +) button is pressed, a channel being used for broadcast will be automatically found. During channel search, the channel indicator will blink. When a channel is located by channel search, the searching stops and the channel indicator changes from blinking to steady illumination, and at the same time, "AFT" indicator illuminates. When the lowest channel or highest channel on a given band is passed, the next band is automatically selected until all channels and bands are searched. 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.
- Press the MEMORY button, and the station selected is memorized. At this time, only the channel position will automatically move one step up, however, the screen image will remain as previously tuned.
- When the PRESET button is pressed, the display will return to the normal display.

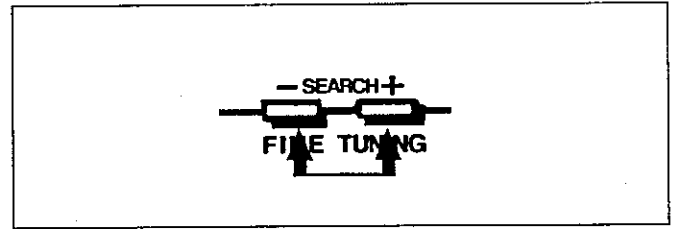
Note: After tuner setting, TV station can be recalled by using only channel position number.



CHANNEL FINE TUNING

Channel fine-tuning adjustments should be made in the normal condition (channel preset mode off condition).

- 1 Press the numeric buttons or \leftarrow , \rightarrow buttons to select the unsatisfactory channel.
- 2 Press the SEARCH/FINE TUNING (- or +) button until obtaining the best possible picture and sound. When the SEARCH/FINE TUNING (- or +) button is pressed, the "AFT" indicator is turned off, and the fine tuning can then be made.



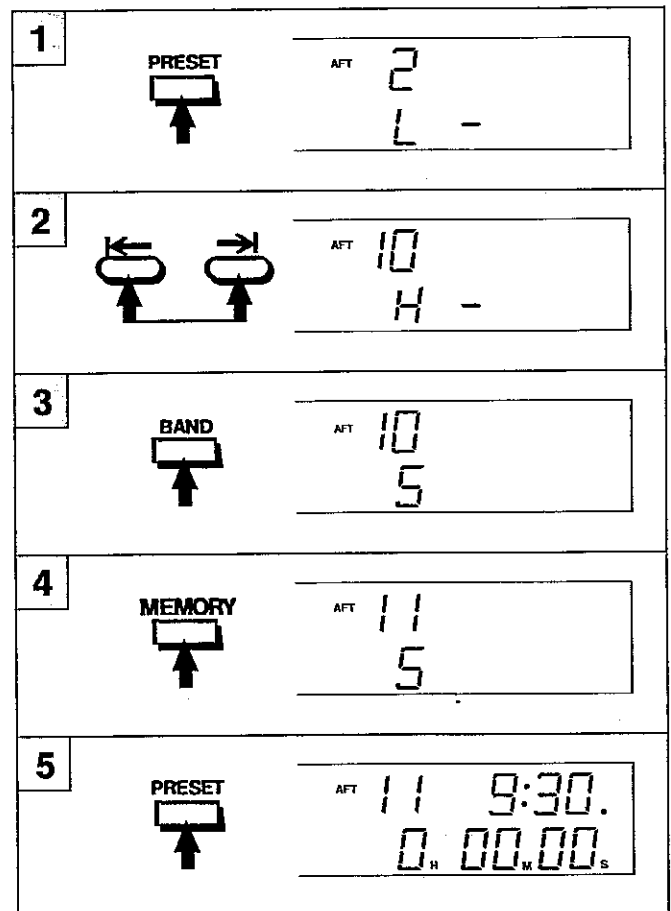
Note: To return to the AFT ON condition, press the BAND/AFT ON button. If the VCR does not return to the AFT ON condition when the BAND/AFT ON button is pressed, perform the presetting operation once again.

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 \leftarrow or \rightarrow button to select the channel position number to be skipped.
Example: Position number "10"
- 3 Press the BAND/AFT ON button until the band indicator shows "S".
Note: "S" denotes SKIP.
To cancel the SKIP mode, press the BAND/AFT ON button once again to select system to be received, and then preset once again.
- 4 Press the MEMORY button.
- 5 When the PRESET button is pressed, the display will return to the normal display.



CASSETTE LOADING AND UNLOADING

LOADING

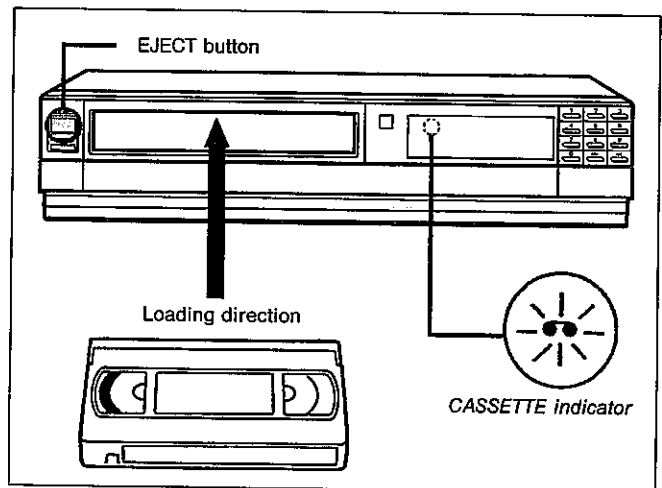
When a video cassette is inserted, it will be loaded automatically and the cassette indicator will illuminate.

UNLOADING

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

CAUTION:

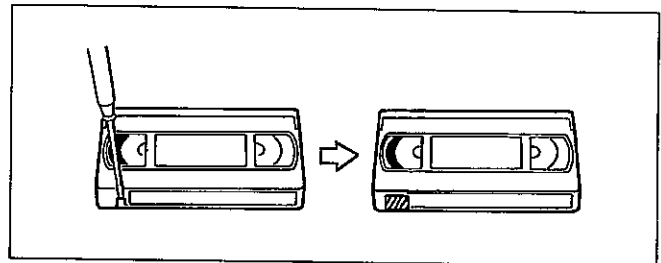
Do not put your hand or other objects behind the cassette door because of the risk of injury or an accident. Particularly keep small children away from the VCR.



ERASURE-PREVENTION TAB

If the erasure-prevention tab on the back of the video cassette is removed, neither video recording nor audio dubbing will be possible. This tab is designed to prevent the accidental erasure of recorded material. (The tab should be snapped off at its base, and removed completely.)

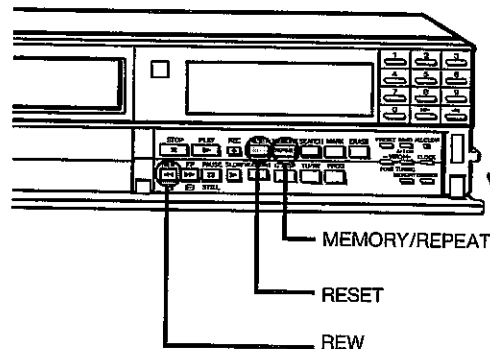
To record the same cassette again, attach a piece of adhesive tape over the space where the tab was, and cover the space completely.



COUNTER MEMORY

This convenient feature for finding the beginning of a specific recording etc., is made possible by the "Linear Time Counter" that indicates the tape run time in seconds.

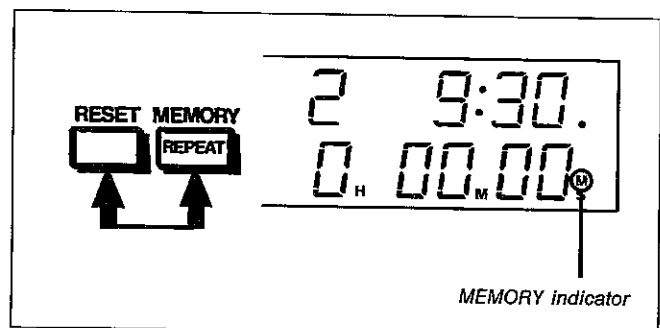
- When the Memory Indicator is displaying remainder amount of tape, press the C DISP (Change Display) button. Then the Indicator will display counter.
- Whenever you load a cassette tape, the counter will be reset to "0_H 00_M 00_S".
- The counter operates using control signals which are recorded on 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 before starting recording or playback. The zero point of the 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 rewound automatically to the memorized position and then stops.



TAPE REMAINDER

IMPORTANT NOTICE

Only the tape that has "○" mark in the following table can display the remaining amount of tape automatically 10 seconds after the start of playback or recording. If other tapes are used, input the "CASSETTE NUMBER" corresponding to the tape type while the cassette type indicator is blinking (within 5 seconds), using the numeric buttons. Then press the "→" button.

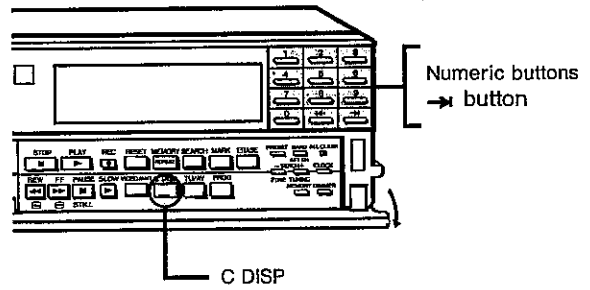
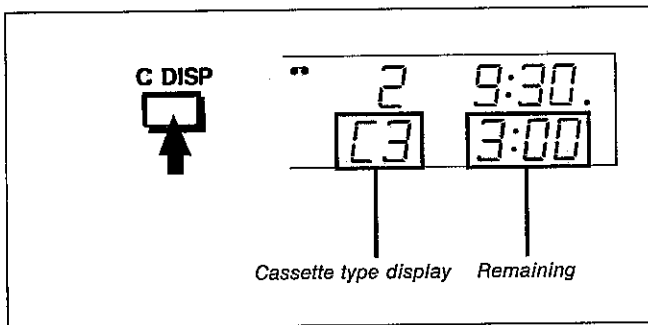
Auto ID	Cassette	Cassette number	Cassette type display
○	E-30	30	03
○	E-60	60	C1
○	E-90	90	09
○	E-120	120	C2
○	E-150	150	15
○	E-180	180	C3
	E-195	195	19
	E-210	210	21
○	E-240	240	C4

Note: After the cassette is loaded, fast forward and rewind will take place for about 3 seconds in order to calculate the remaining length of tape.

In order to confirm the remaining amount of tape after starting playback or recording, follow the steps below.

1 Press the C DISP (Change Display) button once over 10 seconds later, after playback or recording has started.

2 Press the C DISP (Change Display) button, the original display will resume.



In order to confirm the remaining amount of tape before starting playback or recording, follow the steps below.

1 Insert cassette.

2 Press the C DISP (Change Display) button once.

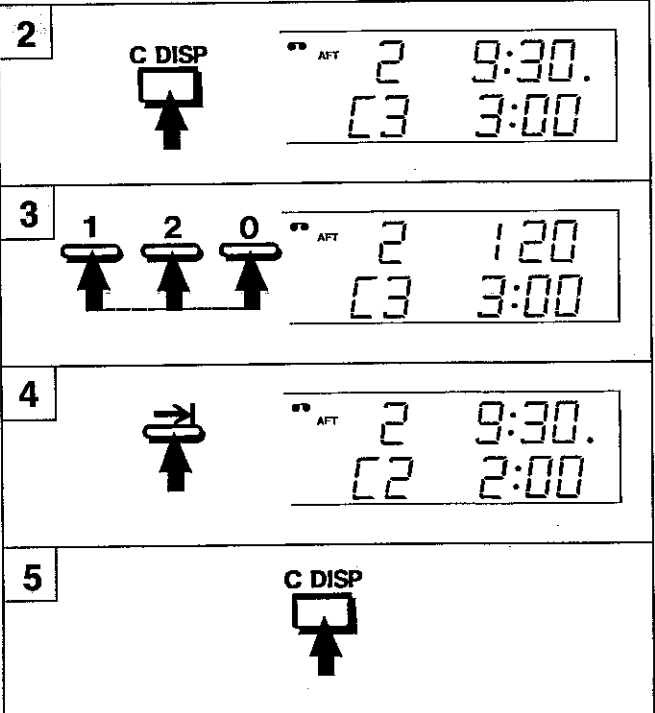
3 Input the "CASSETTE NUMBER" corresponding to the tape type using the numeric buttons, while the cassette type indicator is blinking (within 5 seconds) and after pressing the C DISP (Change Display) button.

Example: In case of E-120 cassette tape.

• If you do not input the "CASSETTE NUMBER", the remaining time will be displayed on the basis of E-180 cassette tape.

4 Then press "→" button.

5 Press the C DISP (Change Display) button, the original display will resume.



RECORDING TELEVISION BROADCASTS

Check before starting

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

- 1 Insert the video cassette.
- 2 Set the TU/AV button to "TU" position.
- 3 Set the VIDEO/ANT selector to the "VIDEO" position. "VTR" indicator will be on.
- 4 Press the numeric buttons or ←, → buttons for the channel to be recorded.
Example: Channel 23
- 5 Press the REC button.
- 6 To stop the recording, press the STOP button.

SIMPLE EDITING

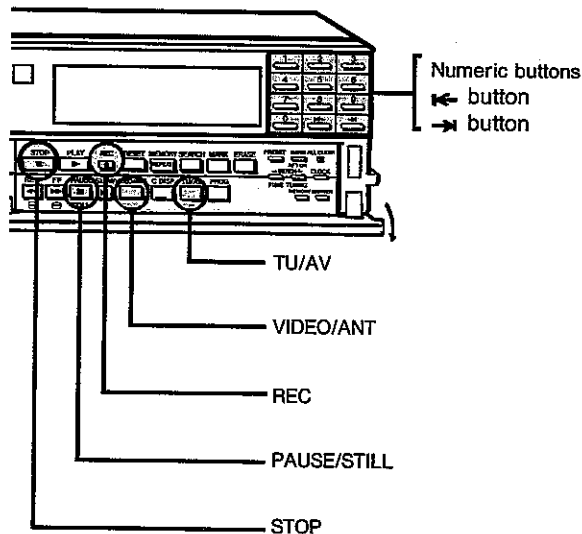
This function is convenient to delete the unnecessary part.

- 1 During recording, press the PAUSE/STILL button. The TV picture will not be recorded.
- 2 Press the PAUSE/STILL button again, and the recording will resume.
Note: If REC PAUSE mode continues for about five minutes, the VCR will automatically go into the stop mode in order to prevent the tape from damage.

RECORDING ONE PROGRAMME WHILE WATCHING ANOTHER

If two television programmes being broadcast in the same time slot, are both desired to be seen, one programme can be video recorded for later viewing while the other can be seen at the time it is broadcast. Recording of the broadcast not being viewed on the television screen will continue at this time.

- 1 Start recording the desired TV programme following the procedure above.
- 2 Set the VIDEO/ANT selector to the "ANT" position. The "VTR" indicator will go off.
- 3 Set your TV set to the channel on which the programme to be viewed is being broadcast.



QUICK START RECORDING (QSR) TIMER

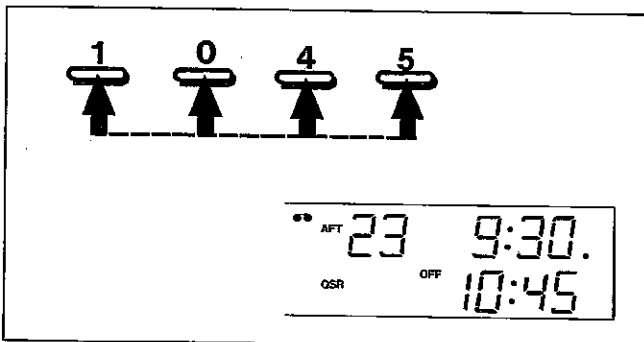
If ending time is set by numeric buttons within 10 seconds after normal recording has started, the VCR will be set in QSR timer recording mode.

- If the REC button is pressed during normal recording, VCR will resume the QSR ending time set mode. If ending time is input by numeric buttons within 10 seconds, VCR will resume QSR timer recording mode.

Check/Changing

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 numeric buttons during this 10 seconds period.

- 1 By pressing the REC button, recording will start.
Note: If recording is to be continued until tape end, the step 2 is not necessary.
- 2 Set the ending hour/minute by the numeric buttons.
Example: 10:45



CAMERA RECORDING

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

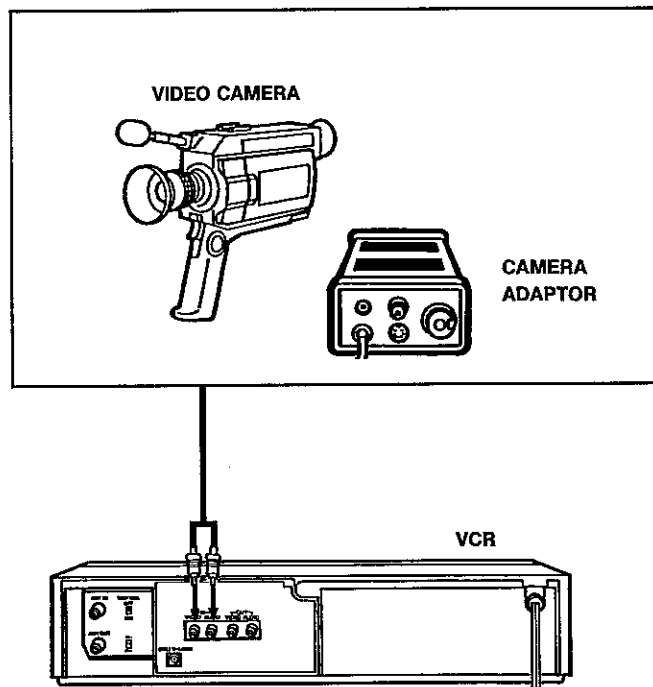
Check before starting

- Set the TV channel selector to VCR operating channel (Channel 0 or 1 for AUSTRALIA, channel 2 or 3 for NEW ZEALAND).
- Insert the video cassette.
- Set the TU/AV button to "AV" position.

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.



DUBBING

WARNING:

The dubbing or copying of video tapes is permissible only insofar as copyright or other rights of third parties are not thereby infringed.

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

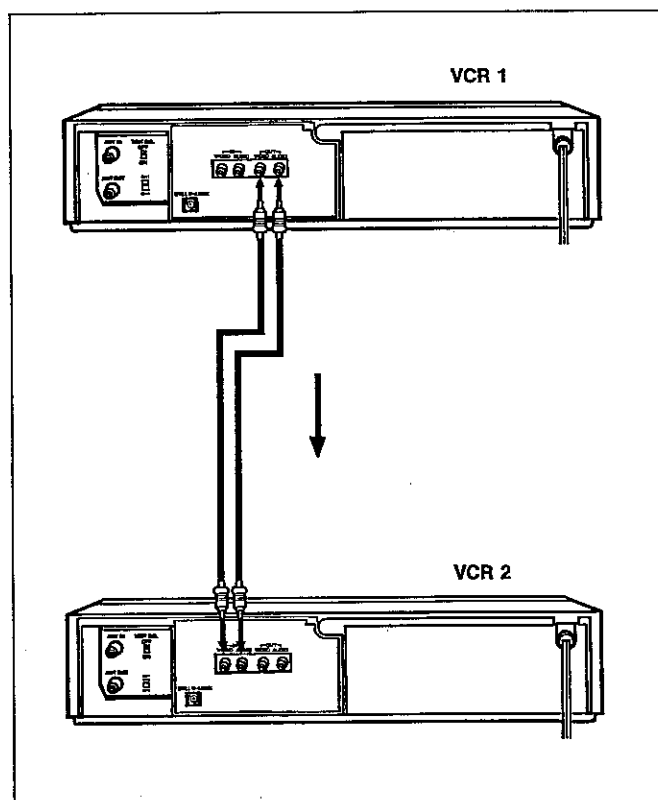
1 Connect VCR 1 and VCR 2.

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

3 Insert the blank video cassette into the VCR 2.

4 Set the VCR 2's TU/AV button to "AV" position.

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



NORMAL PLAYBACK

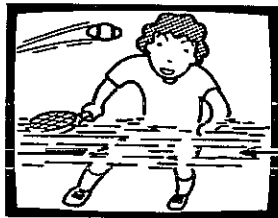
Check before starting

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

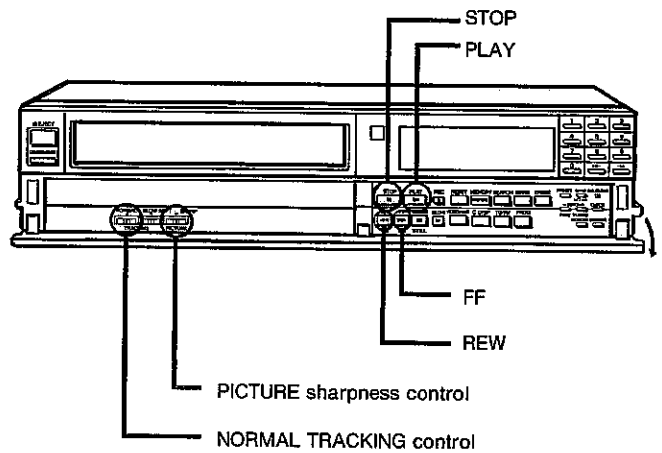
- 1 Insert the video cassette.
- 2 Press the PLAY button.
- 3 To stop the playback, press the STOP button.
 - To rewind the tape, press the REW button.
 - To advance (fast-forward) the tape, press the FF button.

NORMAL TRACKING ADJUSTMENT

If the playback picture shows the "noise" interference, turn the TRACKING (NORMAL) control to minimize the "noise" interference.



"Noise" interference



PICTURE SHARPNESS ADJUSTMENT

Set the PICTURE sharpness control for the picture quality that suits your tastes.

PLAYBACK VARIATIONS

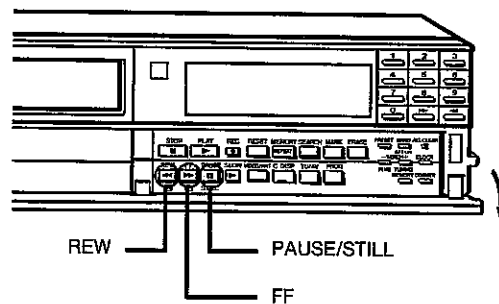
- The picture during the playback variation will contain some "noise" or vibration. But this is not a malfunction.
- If still picture playback is continued for about five minutes or if slow motion/frame advance playback continues for about three minutes, the VCR will automatically change to normal playback in order to prevent the tape from damage.

FORWARD SEARCH

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

REVERSE SEARCH

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



STILL PICTURE

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

FRAME ADVANCE

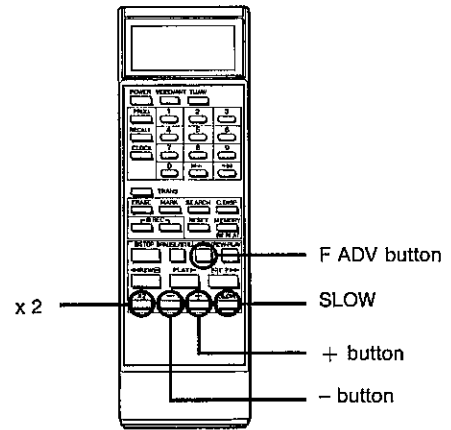
- Press the F ADV button of remote control unit during still playback. Playback picture will advance frame by frame. One pressing advances one frame.

DOUBLE SPEED PLAYBACK

- Press the x2 button of remote control unit during playback. The double speed picture can be viewed.
- Normal playback will resume as PLAY button is pressed.

SLOW MOTION

- Press the SLOW button during playback or during still picture. The picture can be viewed while the tape is advanced at approximately 1/7 slow-motion. If - button or + button of remote control unit is pressed, the tape speed can be variable from 1/4 to 1/25 of normal speed.
- Normal playback will resume when the PLAY button is pressed.



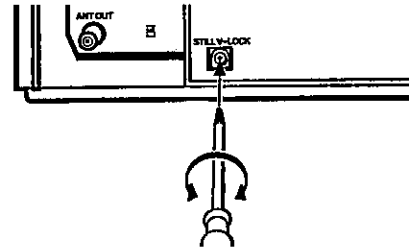
SLOW TRACKING ADJUSTMENT

If the playback picture shows the "noise" interference, turn the TRACKING (SLOW) control to minimize the "noise" interference.



STILL V-LOCK ADJUSTMENT

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 set.



LESSON REPEAT

- Playback of the desired scene will be repeated five times.
- During lesson repeat, you can perform special playback such as still and frame advance.

1 Locate any desired scene to view repeatedly. Press the MEMORY/REPEAT button 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.

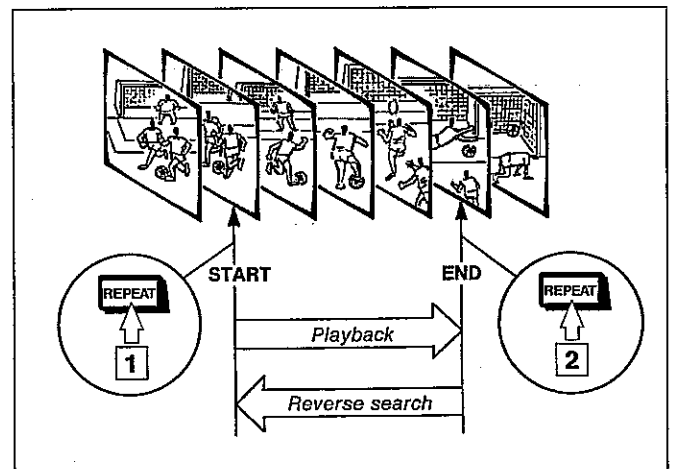
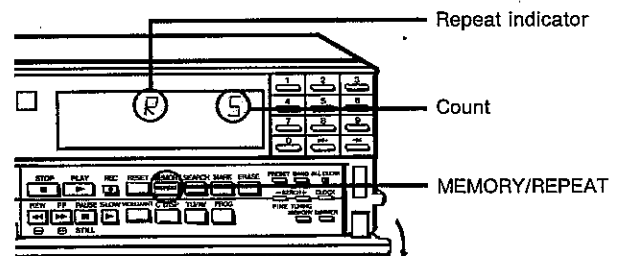
2 Press the MEMORY/REPEAT button again at the ending point of the lesson repeat during playback. The "R" indicator will light up, and then the scene will be reverse-searched to the starting point and the playback will be repeated five times. The display shows the remaining number of times for lesson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

Cancel

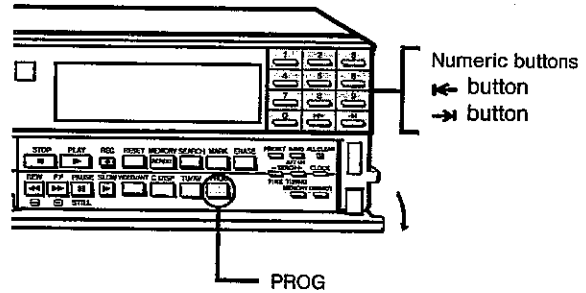
The lesson repeat is cancelled when the MEMORY/REPEAT button or STOP button is pressed during lesson repeat.

- Lesson repeat can be cancelled by pressing the MEMORY/REPEAT button only while playback is taking place.

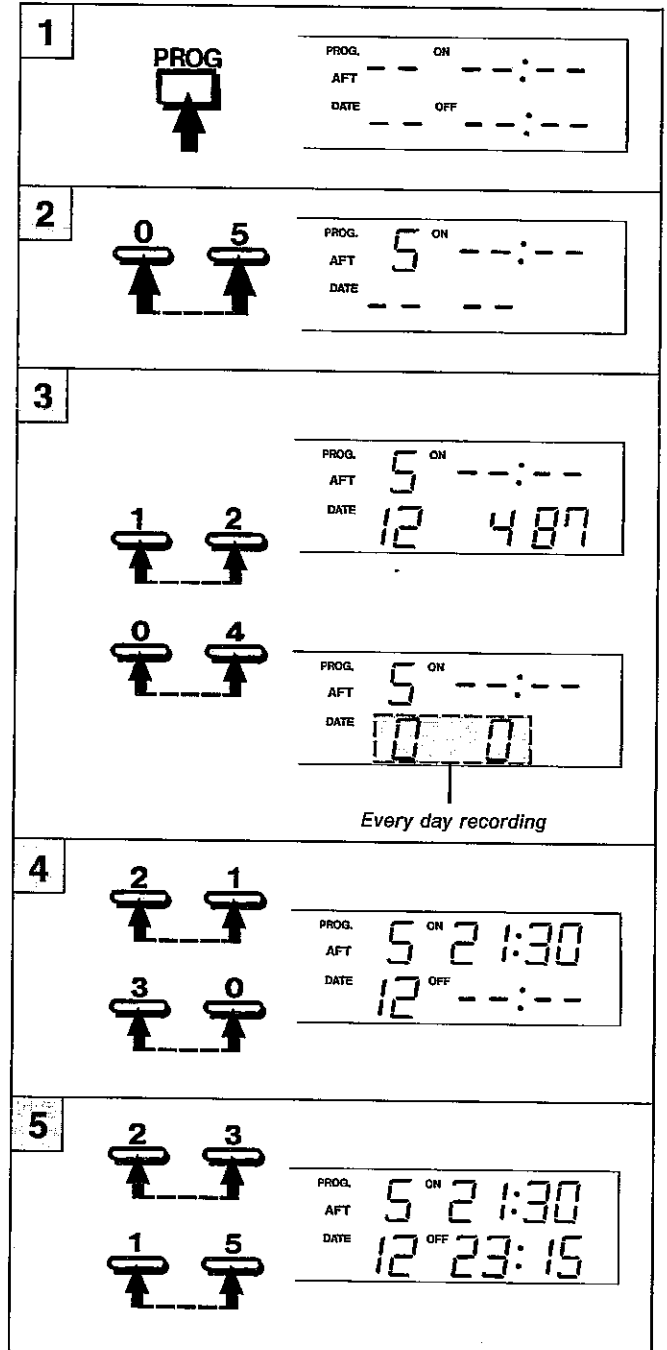


TIMER RECORDING

- Timer can be set at VCR or from remote control unit. When remote control unit is going to be used, set the desired time and then press the TRANS button. The desired time is set in the timer from remote control unit. The timer can be set even if the VCR power is off.
- Timer setting can be changed by pressing the "←" or "→" button until the desired figure flashes. Then input the correct number.
- When one digit number is going to be set, press "0" before pressing that number. (Ex.: In case of 9: press "0" and then "9".)
- Before setting the timer programme, be sure that the current time read out is accurate.



- 1** Press the PROG button.
 - 2** Set the CHANNEL with numeric buttons.
Example: Channel 5
 - 3** Set the DAY with numeric buttons.
Set the MONTH with numeric buttons.
When month is set, year will be displayed automatically.
If the day and month setting in step 3 is set to "00", it will be every day recording.
Example: DAY = 12
Example: MONTH = 4
 - 4** Set the ON HOUR with numeric buttons.
Set the ON MINUTE with numeric buttons.
Example: HOUR = 21
Example: MINUTE = 30
 - 5** Set the OFF HOUR with numeric buttons.
Set the OFF MINUTE with numeric buttons.
Example: HOUR = 23
Example: MINUTE = 15
- Note:** If ON time and OFF time are same, OFF minute will keep blinking. Change the OFF time then.
- 6** This completes the setting of time recording. The VCR will resume automatically to timer stand-by mode. To set other time recording settings, repeat steps 1 to 5.






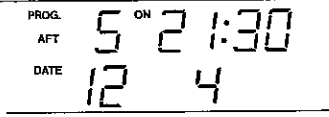


PROGRAMME CHECK

- 1 The programme/day/on-time/off-time will be displayed as the PROG button is pressed twice.
 - If the memory is full simply press the PROG button once.

- 2 The day/month will be displayed by pressing "→" button twice further in step 1 condition.

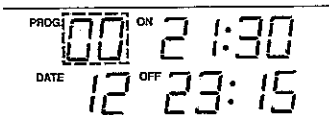
Note: If you press the → button only once, the unit will enter the Channel Correction mode.

- 3 The next programme check will be displayed by pressing the PROG button.

1	 <p>Twice</p>	
2		
3		

PROGRAMME CANCELLATION

Set-up the programme change mode as described on the right. Set the channel display to "00". Press the → button and the programme is cancelled. If the ← button is pressed in the "00" channel display, the programme is not cancelled, but the programme change mode will resume.



PROGRAMME CHANGE







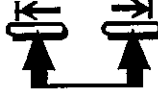



- 1 Press the PROG button twice and set VCR into the programme check mode.
 - If the memory is full simply press the PROG button once.

- 2 Press the PROG button again until the programme desired to be changed, is displayed.

- 3 Press the → button. The PROG and channel position number will blink.

- 4 Press → (or ←) button until the number desired to be changed is blinking.

- 5 Press the numeric buttons and correct the number. Use the → button to skip displays which do not need to be changed.

1	 <p>Twice</p>	
2		
3		
4		
5		

VHS INDEX/ADDRESS SEARCH SYSTEM

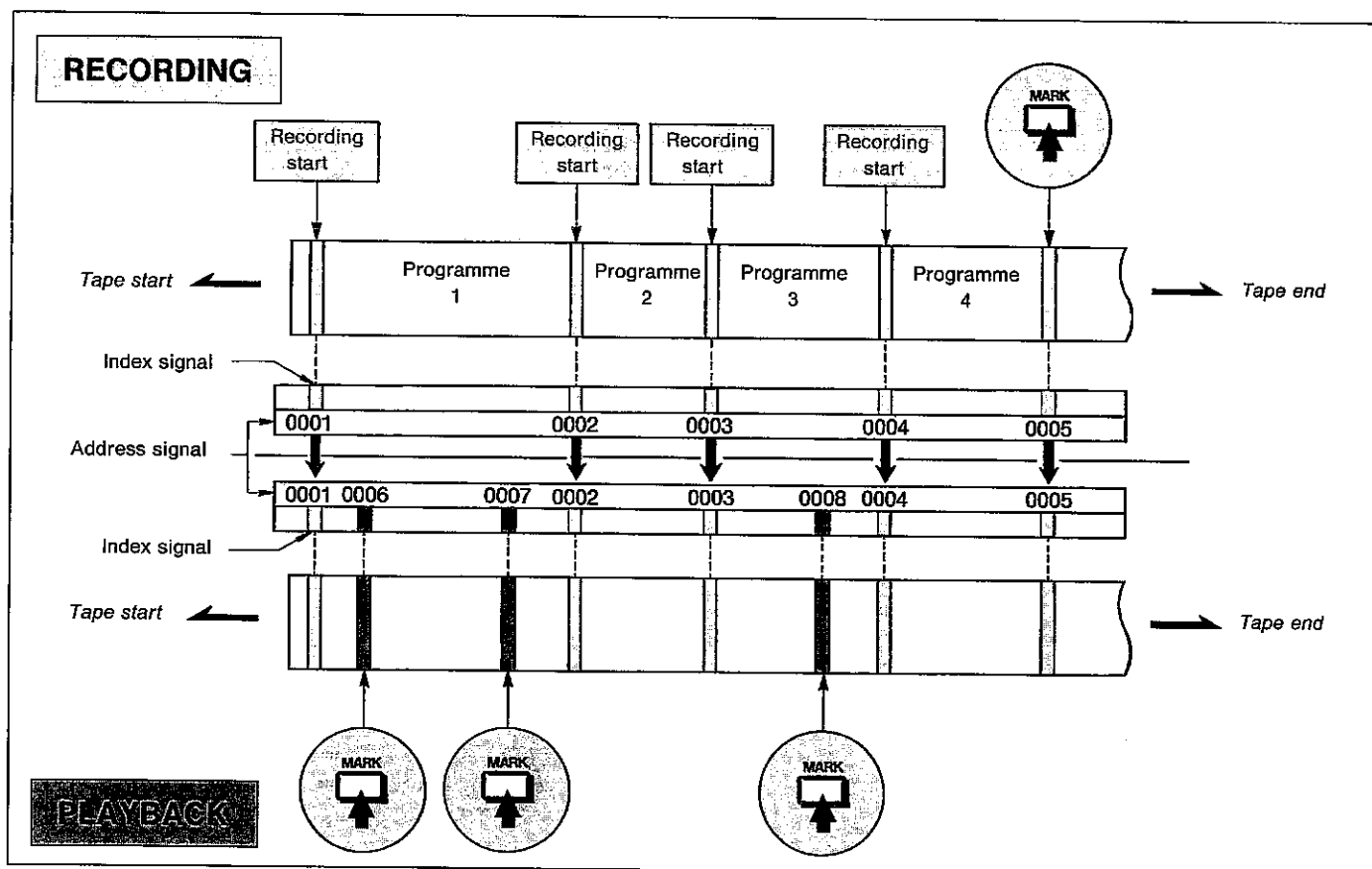
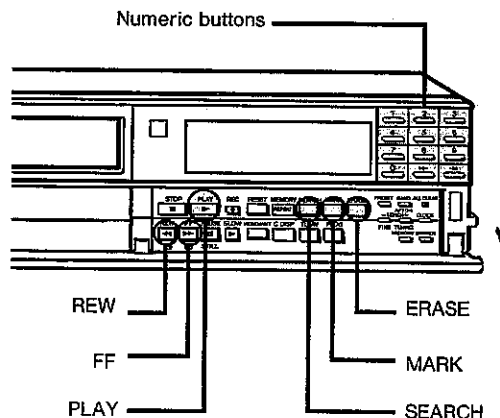
The VHS Index Search System and VHS Address Search System enable cueing on a recorded programme. The cueing requires previous recording of index/address signals on each programme at the time of video recording or playback.

RECORDING OF INDEX/ADDRESS SIGNAL

The index/address signals are recorded automatically whenever recording starts.

Press the MARK button at any desired point during recording or playback. The index/address signals will be recorded.

- Address means the programme number for the recordings on tape. This address is recorded in numeric order whenever recording is started or the MARK button is pressed.
- While the index/address signal is being recorded, "ld" will appear on the display.
- When a cassette tape is changed, the address is cleared and starts again from 0001.



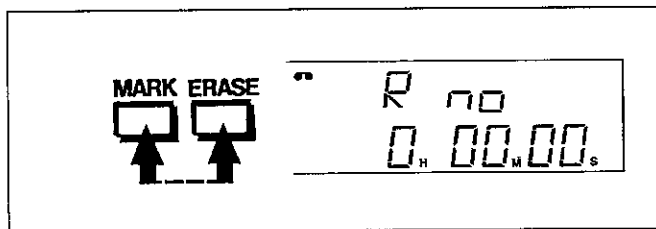
Note:

- If the unit is put into a pause status during recording, then recording is started once again, the index/address signal will not be recorded.
- Insert the index/address signals at least one minute apart from each other. If these signals are too close together, the unit will sometimes fail to operate normally during renumber or erase operation.
- If you insert the index/address signals in the Playback mode, the audio will not be heard while the index/address signals are being recorded.
- In this sub-section, the "COUNTER MEMORY" does not function.

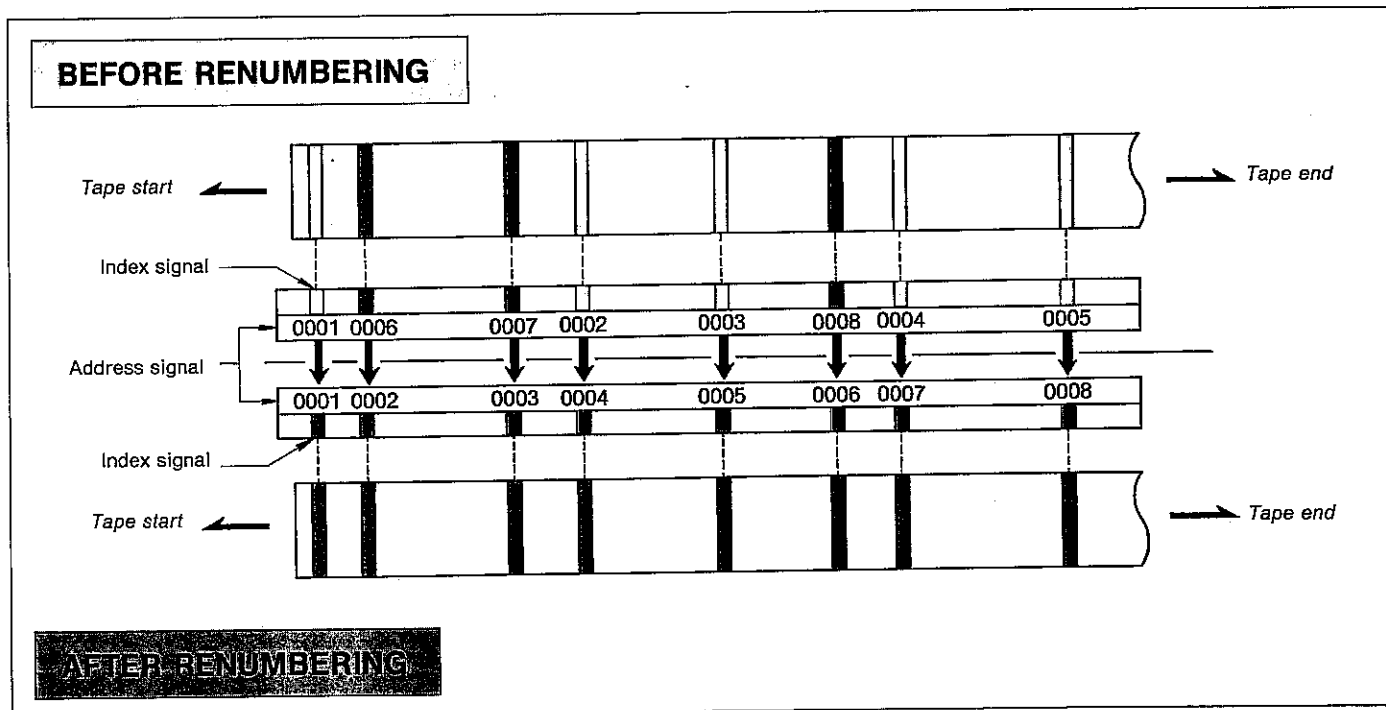
RENUMBER THE ADDRESS

If many recordings are made at random or if the "MARK" button is pressed many times at random, the address numbers are recorded also at random, not in numeric order. In these cases press the "MARK" button and "ERASE" button at the same time in STOP mode. The VCR will resume fast forward mode and will renumber the addresses whenever index signal is detected.

If you perform a renumbering operation at an intermediate point on the tape, renumbering will start from that point and continue to the tape end. If you wish to perform renumbering from the beginning of the tape, first press the REW button and rewind the tape to the beginning.



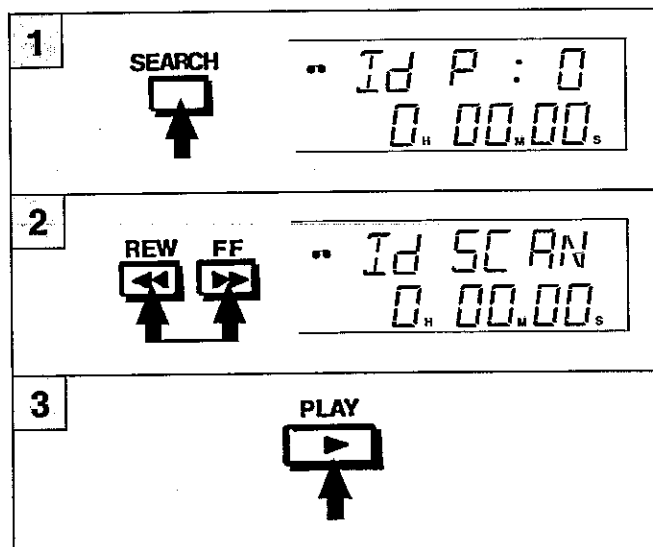
Note: You cannot perform a renumbering operation using the remote control unit.



INDEX SCAN SEARCH

This feature enables each programme having index signals recorded to be played back for 5 seconds consecutively during search.

- 1 Press the SEARCH button during the STOP or PLAY mode.
- 2 Press the FF or REW button depending upon the scanning direction.
- 3 Press the PLAY button at the point of desired programme.



ADDRESS SEARCH

This feature is used in the conditions when address number of the desired programme is already known.

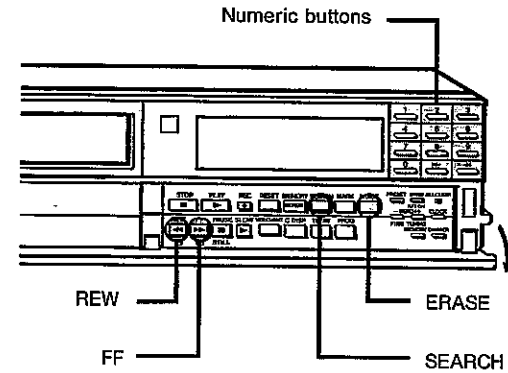
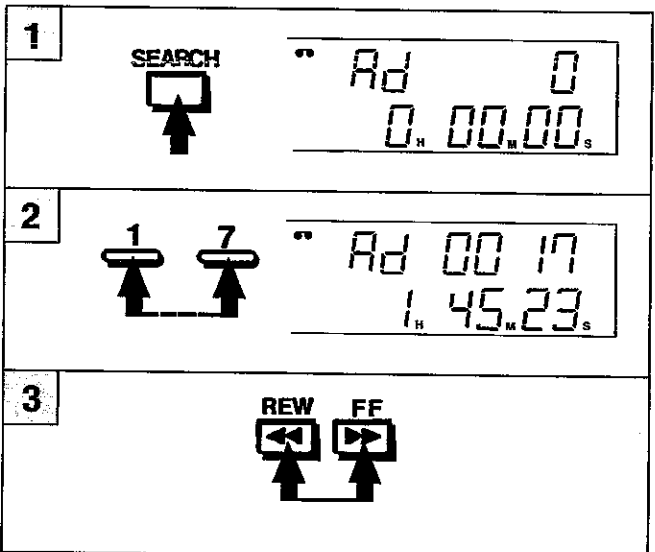
1 During the STOP or PLAY mode, press the SEARCH button twice.

2 Set the address number using numeric buttons.
Example: address 17

3 Press the FF or REW button depending upon the direction in which a search is to be made. Tape will stop at the specified address number and starts playback.

Notes:

- If you performed a search in the FF direction to the tape end but the designated address was not found, start searching in the REW direction. When the tape end is reached, the tape will stop.
- You cannot set address number "9999".



INDEX SEARCH

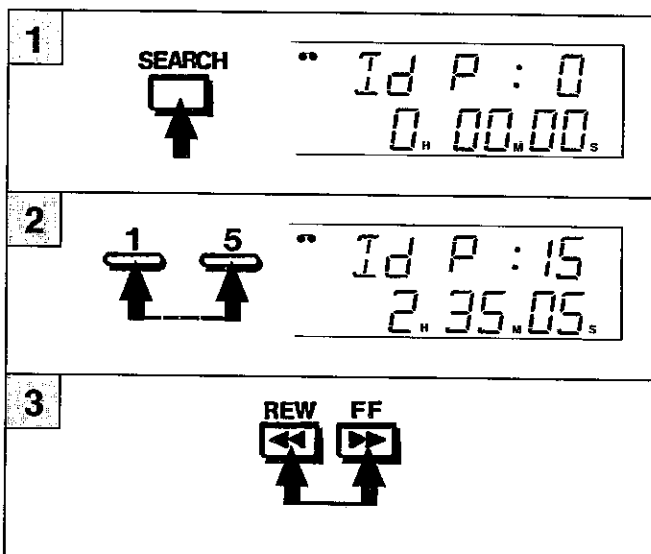
This feature enables automatic search for playback of a programme whose INDEX number is known.

1 During the STOP or PLAY mode, press the SEARCH button once.

2 Press the number of the desired programme using the numeric buttons.
Example: 15

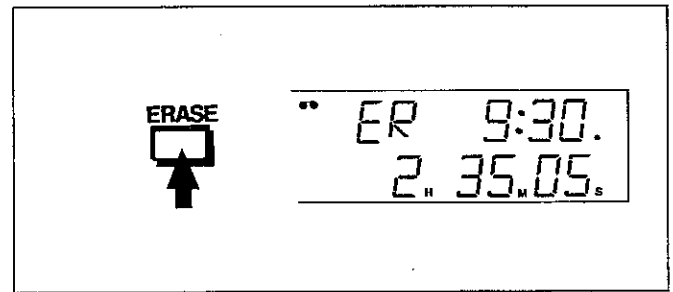
Note: If the programme number is set to "0", the index scan search mode will resume.

3 When the desired programme is located after the present tape position, press the FF button. When the desired programme is located before the present tape position, press the REW button. By pressing the FF or REW button, tape will stop at the desired programme and then starts playback.



ERASE THE INDEX/ADDRESS SIGNAL

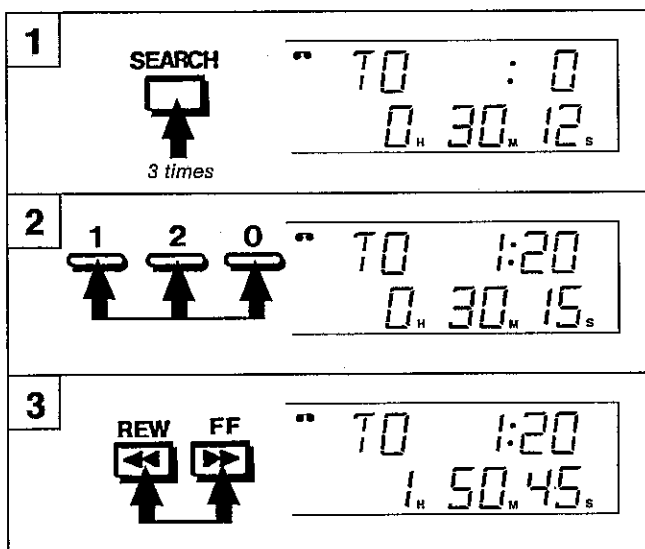
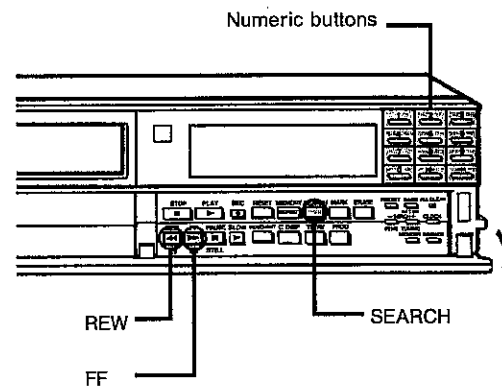
- 1 Put VCR into the index search mode or into the address search mode. Playback for about 10 seconds the programme containing index/address signals desired to be erased.
- 2 Press the ERASE button. Tape will automatically reverse-search to the programme top and the index/address signals will be erased.



GO TO SEARCH FUNCTION

This feature enables forward and reverse search with reference to tape playing time.

- 1 During the STOP or PLAY mode, press the SEARCH button 3 times.
- 2 Input the time difference between the desired scene and present tape position, using the numeric buttons.
Example: 1 hour 20 minutes
- 3 Press the FF or REW button depending upon the direction in which a search is to be made. Tape will advance in the fast speed until the desired scene and then starts playback.
Note: The error between the designated time and the counter reading is about ± 30 seconds.



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.

RECORDING

Symptom	Possible causes and corrections
No picture on TV screen.	<input type="checkbox"/> TV channel selector not set to VCR operating channel.
A picture appears on TV but not clear.	<input type="checkbox"/> Off the air reception on the VCR is poor. <input type="checkbox"/> Reception on the TV is poor.
No recording.	<input type="checkbox"/> Erasure-prevention tab on the cassette has been removed.
Time recording cannot be made correctly.	<input type="checkbox"/> The clock time is not set correctly. <input type="checkbox"/> The starting day and time have not been set correctly. <input type="checkbox"/> There has been a power interruption.
The desired programme has not been recorded.	<input type="checkbox"/> The TU/AV button has not been set correctly.

PLAYBACK

Symptom	Possible causes and corrections
No picture on TV screen.	<input type="checkbox"/> TV channel selector not set to VCR operating channel.
Noise interferes with playback picture.	<input type="checkbox"/> Misadjustment of TRACKING control.
No picture, but sound is clear.	<input type="checkbox"/> Dust and dirt on video heads. (Take VCR to Authorized Service Station or dealer.)

OTHERS

Symptom	Possible causes and corrections
No power is supplied.	<input type="checkbox"/> The power cord is disconnected.
Cassette cannot be inserted.	<input type="checkbox"/> A cassette is already loaded.
Digital display is blinking.	<input type="checkbox"/> There has been a power interruption.
The function buttons cannot be activated.	<input type="checkbox"/> Moisture condensation on head drum; DEW indicator on. (Wait until DEW indicator goes out.)
The VCR cannot be remotely controlled.	<input type="checkbox"/> The batteries are exhausted.

SPECIFICATIONS

General

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

For AUSTRALIA	For NEW ZEALAND
V _L : 0 — 5	V _L : 1 — 3
V _H : 5A — 11	V _H : 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. one hour
Timer recording operation	(1) ON/OFF at specified time of the day within one year (2) ON/OFF at specified time of every day
Maximum programme number	6 programmes
Power requirement	AC 240 V \pm 10%, 50 Hz
Dimensions	420 (W) x 89 (H) x 310 (D) mm
Weight	6.5 kg
Power consumption	30 W

Electronic characteristics

Video input level	0.5—2.0 Vpp
Video input impedance	75 \pm 5 ohms
Video output level	1.0 \pm 0.2 Vpp
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	64 (W) x 19 (H) x 212 (D) mm
Weight	Approx. 180 g (with batteries)

Accessories

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

Appearance and specifications are subject to change without notice.

MEMO



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