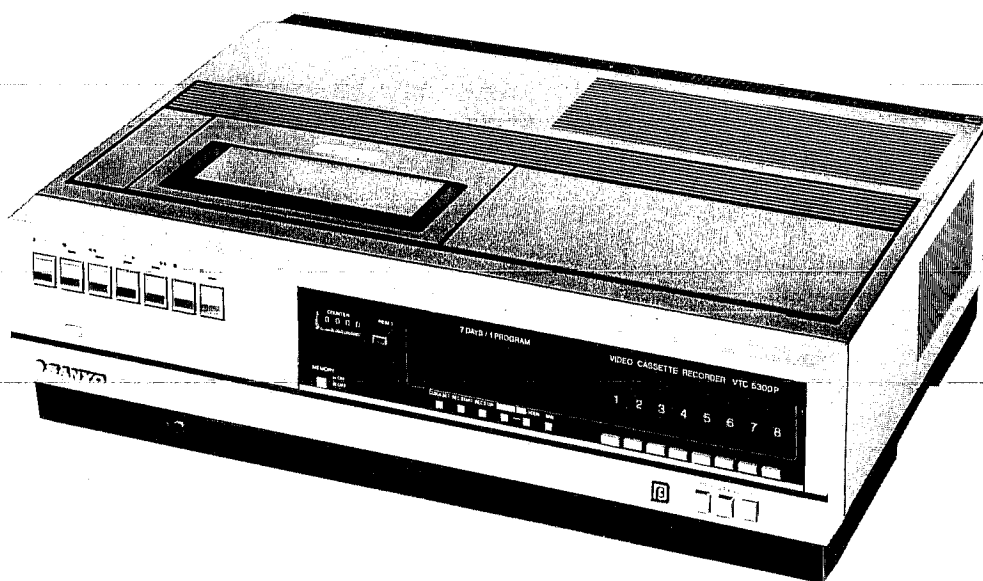


 **SANYO**

VTC 5300P

Beta

SANYO COLOUR VIDEO CASSETTE RECORDER

OWNER'S MANUAL

IMPORTANT

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

Blue: Neutral

Brown: Live

- * As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows.
- * The wire which is coloured blue must be connected to the terminal which is marked with the letter **N** or coloured blue or black.
- * The wire which is coloured brown must be connected to the terminal which is marked with the letter **L** or coloured brown or red.

FEATURES

- * Popular BETA recording format
- * Three hours 15 minutes recording time with a compact video cassette L-750
- * Built-in preset UHF tuner
- * Programmable timer enables 1 time of unattended recording within 7 days
- * Soft touch mechanism operation
- * Automatic REWIND at the end of tape
- * Mechanical tape counter with "0000" position memory

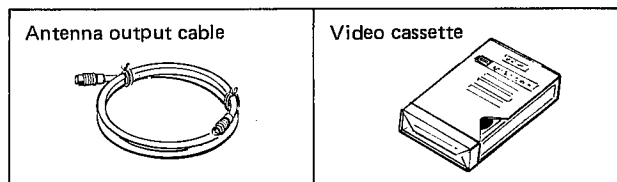
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ACCESSORIES SUPPLIED

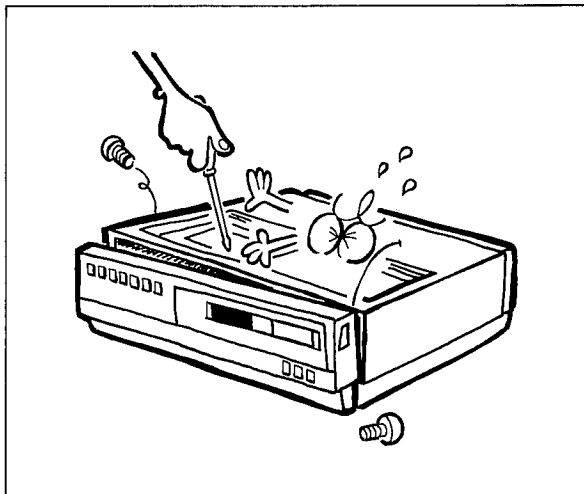
When unpacking your new video cassette recorder, please observe that the following standard accessories are included:

ACCESSORY	QTY.
Antenna output cable	(1)
Video cassette, L-250	(1)
Owner's Manual	(1)



CAUTION

- * Only **B** video cassettes can be used with this recorder.
- * The SANYO BETACORD Video Cassette Recorder is designed to expand your opportunities for in-home TV viewing and is not intended for any usage which may infringe the rights of others.
- * Do not attempt to open the cabinet. There are no user serviceable parts inside. Refer all servicing to your Sanyo Authorized Dealer. **TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.**

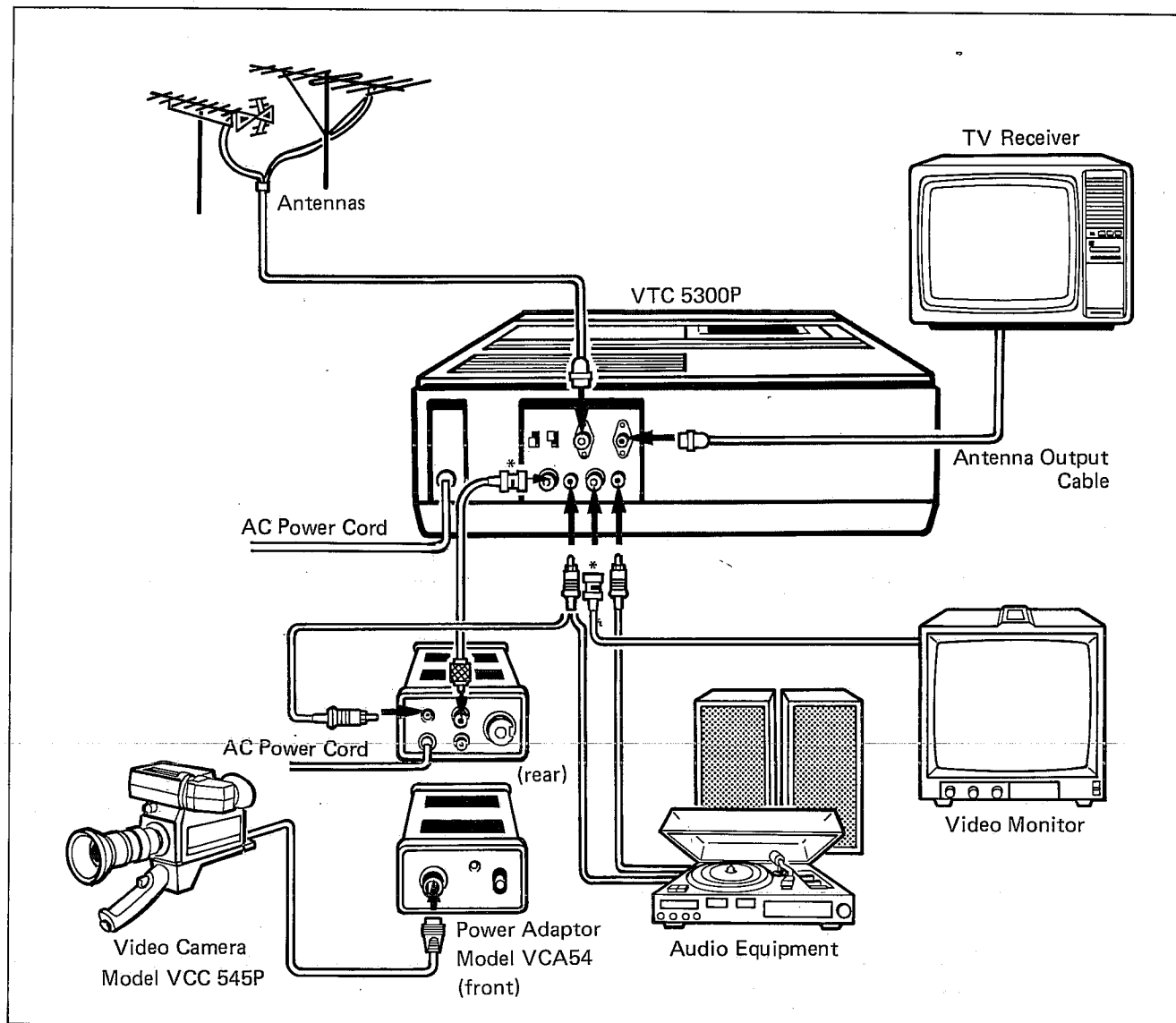


- * Pick a convenient location for your video cassette recorder, but avoid using it in extremely hot, cold or dusty places. Allow for air circulation at bottom, top, side and back of unit. The rotary and stationary recording heads are also sensitive to magnetic fields. Take care not to place the recorder near motors, transformers or other equipment which generate strong magnetic fields. This product is designed for use in the horizontal position only.
- * When the recorder is not in use, it is recommended that any video cassette in the unit be ejected and all push-buttons released.
- * This product operates on 240 VAC, 50Hz power. If the AC line voltage differs by more than $\pm 10\%$ of the rated figure, improper operation will result. In this case, use a variable transformer or voltage stabilizer.

IMPORTANT FOR THE U.K.

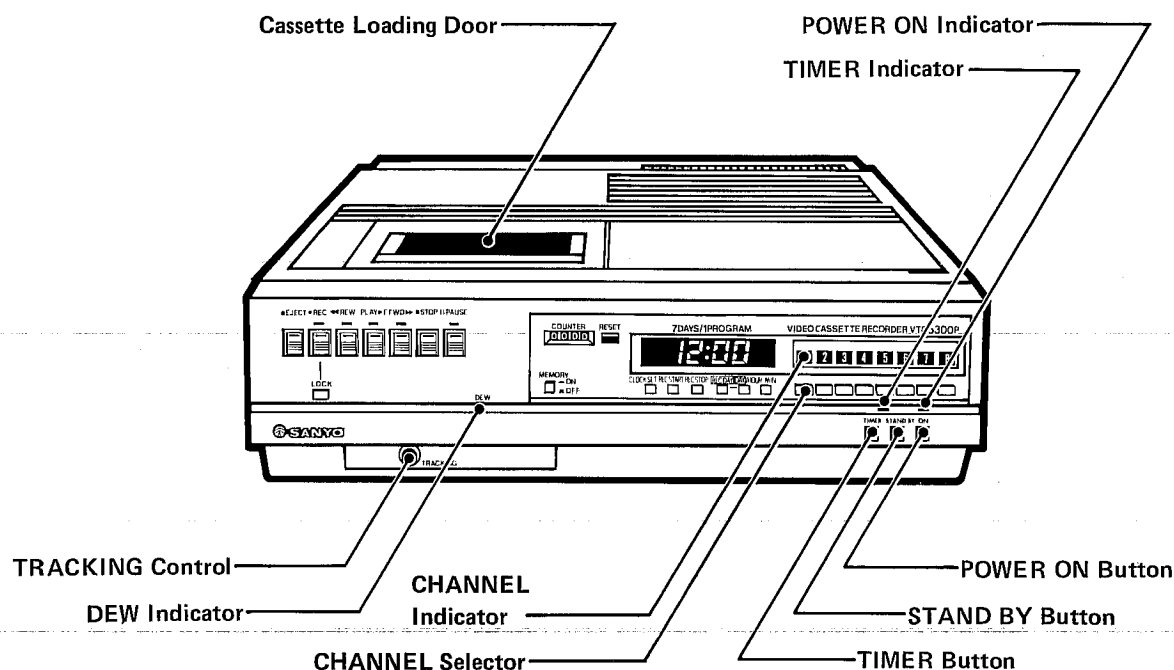
To provide protection from electric shock which might result from faulty TV aerial isolation, this apparatus must always be connected to the TV receiver using the special connecting lead supplied, which incorporates safety isolation. Do not tamper with, or shorten this lead. Should a longer lead be required, consult your dealer.

INSTALLATION AND CONNECTION OF THE RECORDER



* **Note:** This video input and output connectors are BNC type.

IDENTIFICATION AND OPERATION OF CONTROLS(A)



POWER ON Button

By pushing this button, the video recorder will be turned on.

Note: Power switch of this set is connected in the secondary circuit and does not disconnect the set from AC power even if the switch is in off (STAND BY) position so far as AC cord is connected to AC line.

POWER ON Indicator

Illuminates when the POWER ON button is pushed.

STAND BY Button

By pushing this button, the video recorder will be turned off, except the clock.

TIMER Button

By pushing this button, the video recorder will be set for timer recording. It will turn on and off automatically.

TIMER Indicator

Illuminates when the TIMER button is pushed.

Cassette Loading Door

Accepts video cassette for automatic tape loading. To open the door for cassette loading push the EJECT button. The cassette should be inserted into the door in the direction indicated by the arrow on the cassette. The cassette should be pushed in the cassette door as far back as it goes and the door closed by pushing it down firmly. Approximately 4 seconds are required for tape loading.

TRACKING Control

Normally used only when playing back a cassette recorded on another recorder, this control provides a compatibility adjustment of video head tracking for noise-free pictures. Should tracking noise (a narrow horizontal noise pattern across the picture) be observed, adjust tracking by rotating the TRACKING control to the right or left.

The TRACKING control should be kept in the mid (notch) position when playing back cassettes recorded on the same machine.

DEW Indicator

Illuminates to indicate condensation on the VCR mechanism. The VCR does not operate until this indicator turns off.

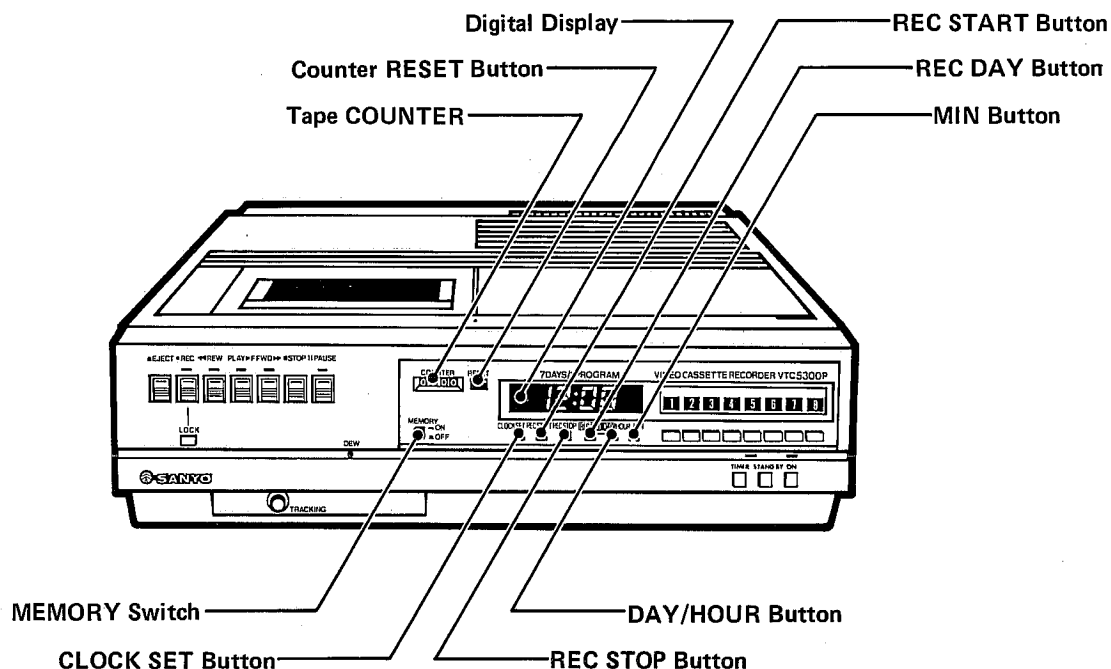
CHANNEL Indicator

The indicator lamp lets you know which channel you are recording.

CHANNEL Selector

8 different TV stations can be stored and be individually recalled by pressing channel selector knobs.

IDENTIFICATION AND OPERATION OF CONTROLS (B)



Digital Display

Indicates the time of the day. When the REC START button is depressed, it indicates the starting time of automatic recording. When the REC STOP button is depressed, it indicates the ending time of automatic recording. When the REC DAY button is depressed, it indicates the day of automatic recording.

CLOCK SET Button

When the main lead is connected, digits "0:00" will appear and begin to flash.

First, set the clock time precisely by pressing the CLOCK SET button together with the DAY/HOUR or MIN button.

REC START Button

While pressing this button, push the DAY/HOUR or MIN button to set the starting time of automatic recording.

REC STOP Button

While pressing this button, push the DAY/HOUR or MIN button to set the ending time of automatic recording.

REC DAY Button

While pressing this button, push the DAY/HOUR button to set the day of automatic recording.

DAY/HOUR Button

While pressing the CLOCK SET, REC START or REC STOP button, push lightly the DAY/HOUR button one time, then the clock or timer indicator will move by one hour. Keep the DAY/HOUR button pressed, the display will change with a speed of 4 hours per second.

While pressing the REC DAY button, push lightly the DAY/HOUR button one time, then the day of automatic recording will move by one day. Keep the DAY/HOUR button pressed, the display will change with a speed of three days per second.

MIN Button

While pressing the CLOCK SET, REC START or REC STOP button, push lightly the MIN button one time, then the clock or timer indicator will move by one minute. Keep the MIN button pressed, the display will change with a speed of 8 minutes per second.

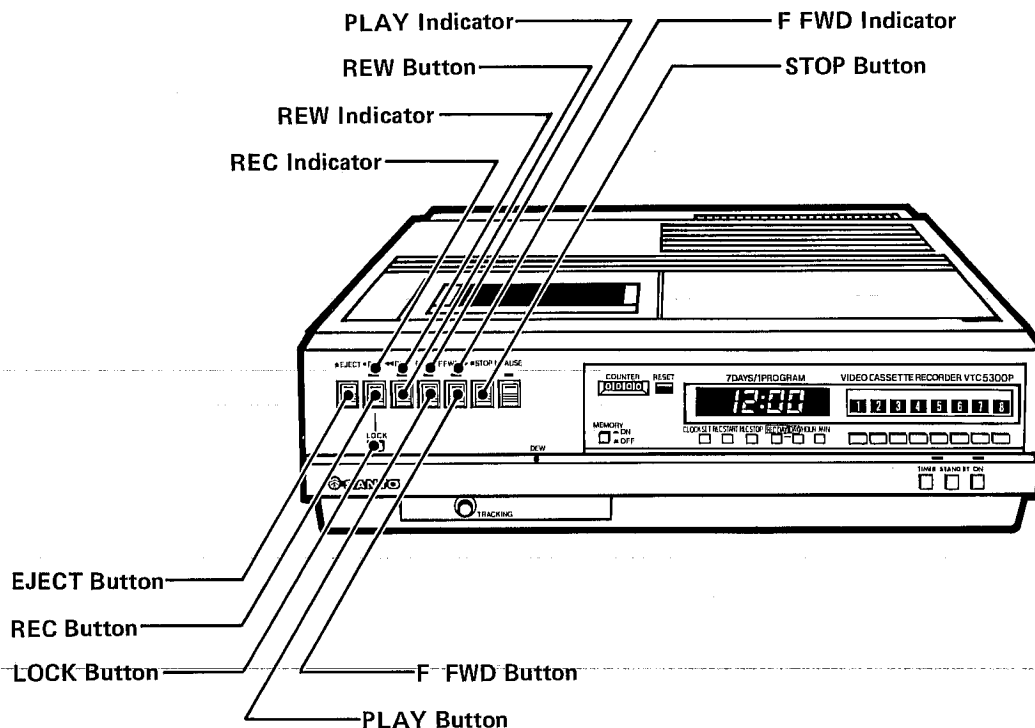
Tape COUNTER

Indicates tape position. Used to locate a particular point on the tape.

Counter RESET Button

Press to reset the COUNTER to "0000".

IDENTIFICATION AND OPERATION OF CONTROLS (C)



EJECT Button

Opens the cassette loading door to permit loading and unloading of the cassette. Cassettes may be ejected at any-time during the programme without rewinding for fast cassette change-over.

REC Button

After the cassette has been loaded, when pressing respectively the lock button and the record button, the REC indicator lights and recording starts. If the video cassette's tab has been removed, the REC indicator flashes to indicate that the video recorder cannot be set to recording mode.

REC Indicator

Illuminates when the video recorder is in record mode.

~~LOCK~~ Button

The REC button does not operate the video recorder even if it is pushed independently. It operates only when pushed along with the LOCK button. If the REC button is pushed by mistake, the video recorder is not set to record mode preventing the erase of the tape. The LOCK button works about one second after it has been pushed and released. The REC button needs not to be pushed simultaneously — all what has to be done is to push it within one second after the LOCK button has been released.

REW Button

When this button is pushed, the REW indicator lights and the tape is rewound at high speed.

REW Indicator

Illuminates when the video recorder is in the REW mode.

PLAY Button

When this button is pushed, the PLAY indicator lights and the prerecorded video cassette is played back.

PLAY Indicator

Illuminates when the video recorder is in the **PLAY** mode.

F FWD Button

When this button is pushed, the F FWD indicator lights and the tape is sent forward at high speed.

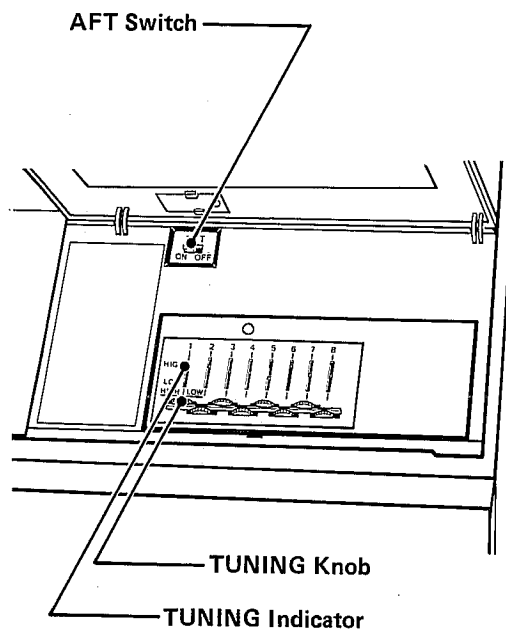
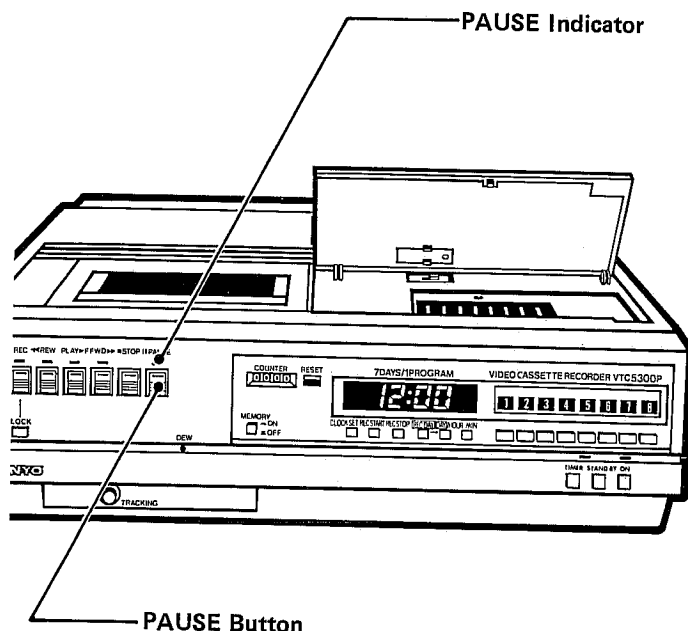
F FWD Indicator

Illuminates when the video recorder is in the F FWD mode.

STOP Button

When this button is pushed during operation, the tape stops running and all the functions are interrupted.

IDENTIFICATION AND OPERATION OF CONTROLS (D)



(Tuner Control Compartment Inside View)

PAUSE Button

When this button is pushed, the PAUSE indicator flashes and the tape stops running. If it is pushed during recording, the video recorder is set to pause mode, it is then possible to cut out commercials and other unnecessary parts of the programme. When this button is pushed again, the video recorder returns to recording mode. If the PAUSE button is pushed during playback, the sound and picture are muted. When this button is pushed again, the video recorder returns to playback mode.

To prevent damage to the precision video tape, the PAUSE function should not be used for more than three minutes at a time.

Note: If the video recorder is kept in PAUSE mode for about 5 minutes, it is automatically turned off in order to protect the tape.

PAUSE Indicator

Flashes when the video recorder is in PAUSE mode.

AFT Switch

This switch electronically maintains the best fine tuning. It should be at the "ON" position except when the fine tuning is being adjusted (by using the tuning controls).

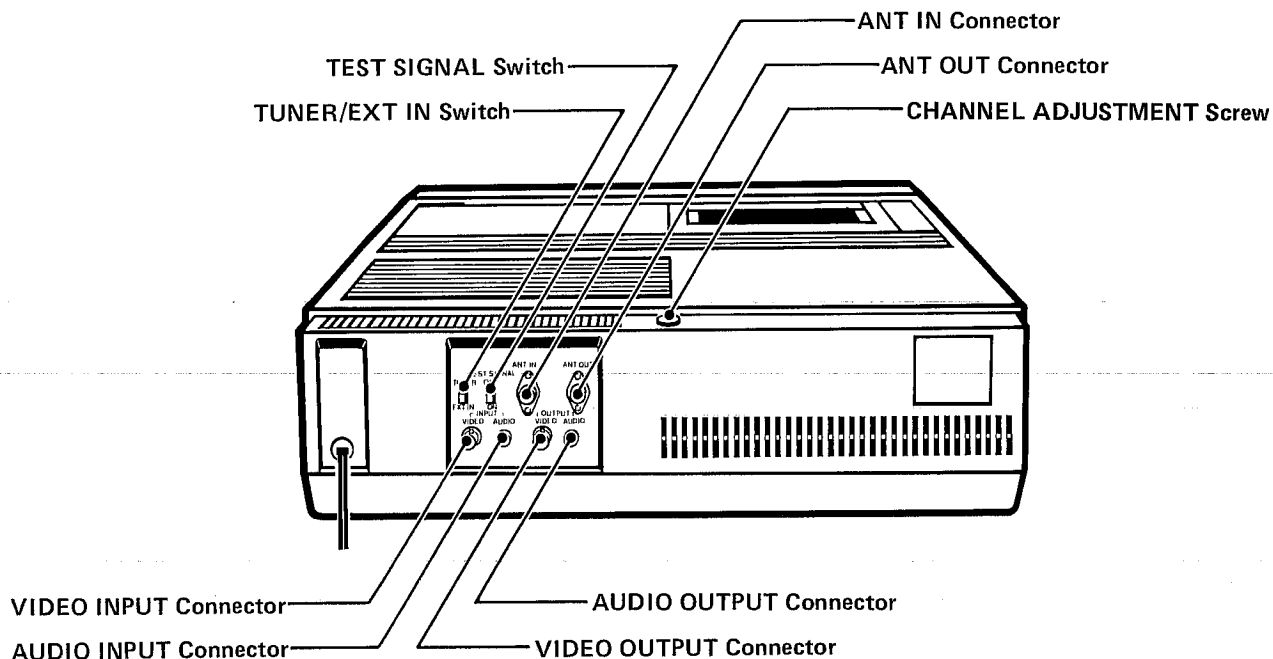
TUNING Knob

When the corresponding channel selector has been pressed, the desired TV station can be tuned.

TUNING Indicator

Each channel band is indicated. Turning the tuning knob, the tuning indicator moves accordingly.

IDENTIFICATION AND OPERATION OF CONTROLS (E)



TUNER/EXT IN Switch

Provides convenient selection of the video and audio sources to be recorded.

TUNER: Video and audio from the tuner section. (Channel indicator illuminates.)

EXT IN: External video and audio input from the VIDEO INPUT and AUDIO INPUT connectors. (Channel indicator does not illuminate.)

TEST SIGNAL Switch

Turn the test signal switch to "ON" position, a black and white pattern is displayed on the TV screen.

Adjust the channel tuning of the TV receiver until the best pattern appears.

ANT IN Connector

Aerial lead from Antenna should be connected to this 75 ohm input.

ANT OUT Connector

75 ohm connector cable should be connected to this output. Opposite end of cable connected to the Antenna connector of the television. (Standard Accessory).

VIDEO INPUT Connector

This connector accepts a standard 1.0 volt p-p, 75 ohm video signal from a camera or other video source for recording. Use a coaxial cable with a BNC type plug for this connection. The VIDEO INPUT connector can be

used when the TUNER/EXT IN switch is turned to the EXT IN position.

AUDIO INPUT Connector

This phonojack accepts 0.24 volt r.m.s., high impedance audio signal from an audio mixer or other source for recording. Use a coaxial cable with a phonoplug for this connection.

VIDEO OUTPUT Connector

The video signal being recorded or played back is available at this connector for monitoring. The output level is 1.0 volt p-p into 75 ohms. Use a coaxial cable with a BNC type plug for this connection.

AUDIO OUTPUT Connector

The audio signal being recorded or played back is available at this phonojack for monitoring. The output level is 0.44 volt r.m.s., 10k. Use a coaxial cable with a phonoplug for this connection.

CHANNEL ADJUSTMENT Screw

RF output channel is correctly adjusted to UHF channel 36 at the factory, therefore it is recommended to use this channel.

If the channel 36 is in use by a commercial television station in your area, select one of the unused broadcast channels 30 to 39 on the TV.

THE RF CONVERTER

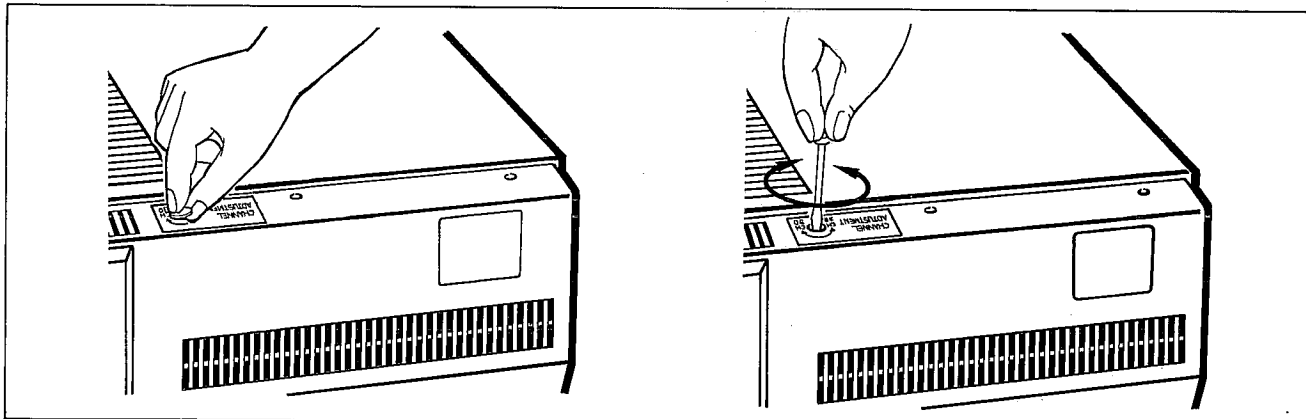
The RF CONVERTER is supplied with the VTC 5300P Video Cassette Recorder. The RF CONVERTER converts the video and audio output signals of the recorder to an auxiliary modulated radio frequency (RF) output for viewing on any standard TV receiver.

Reception of RF channel is available between channel 30 to 39. The channel should correspond to the unused broadcast channel in your area.

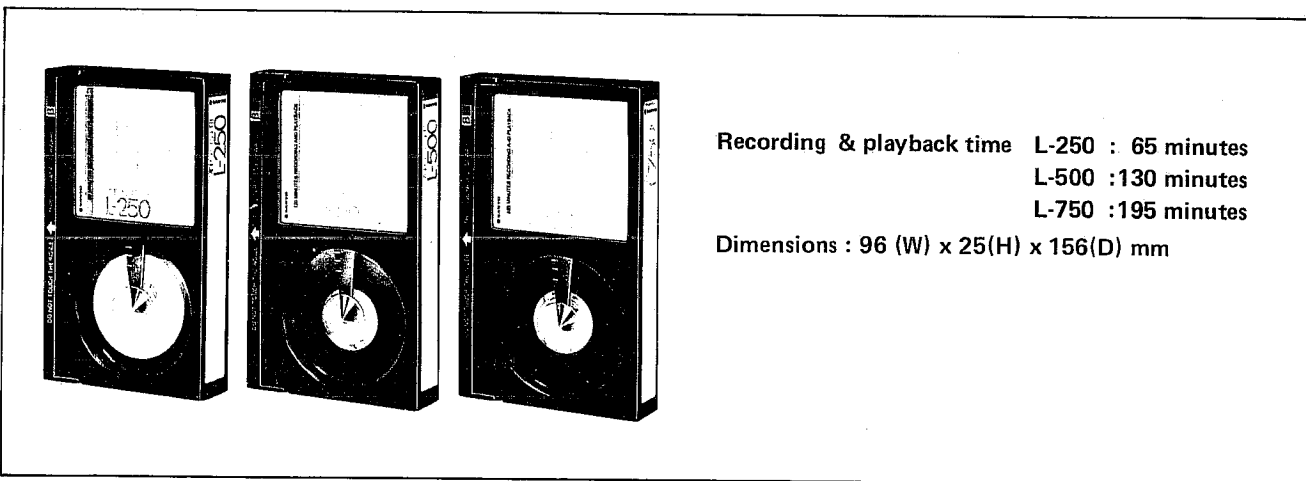
Note: Remove the rubber cap over the adjustment screw for the channel adjustment.

The RF channel is adjusted on channel 36 at the factory. When turning the CHANNEL ADJUSTMENT screw clockwise, the RF channel becomes lower.

Place the rubber cap when the RF channel adjustment has been made.



THE VIDEO CASSETTE AND ITS CARE



Recording & playback time L-250 : 65 minutes
L-500 : 130 minutes
L-750 : 195 minutes

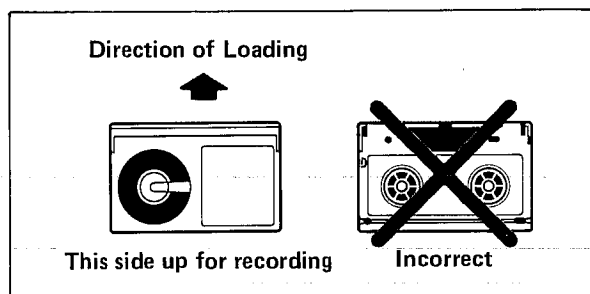
Dimensions : 96 (W) x 25(H) x 156(D) mm

The Sanyo BETACORD Video Cassette is a precision engineered twin reel cassette containing high performance video recording tape. Designed for use with Sanyo BETACORD Video Cassette Recorder/Player, the BETACORD Cassette provides both the convenience of automatic tape loading and protection of valuable recorded contents. With reasonable care, you may expect many hours of high quality video programme enjoyment.

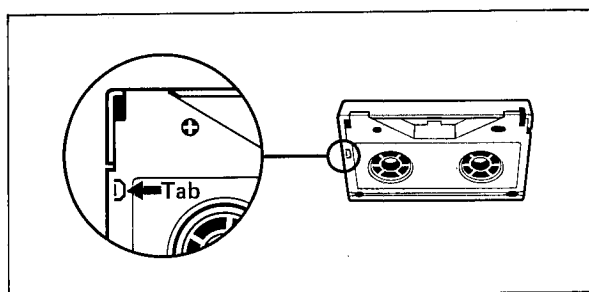
HOW TO USE THE BETACORD CASSETTE

- * Like an audio cassette, the BETACORD Cassette may be re-recorded many times. However, unlike an audio cassette, the BETACORD Cassette can be recorded in one direction only, since the full width of the video tape is used to record picture and sound.

To start the operation of your BETACORD Recorder, the cassette should be properly loaded in the recorder's Cassette Loading Door. Insert cassette, label side up, into Cassette Loading Door in the direction indicated by the arrow. Be sure that the cassette is seated in the Cassette Loading Door as far back as it will go, then close door by pushing it down firmly.



- * For your convenience, a set of index labels is included with the BETACORD Cassette. Placement of the label is indicated on the label card.
- * To protect your valuable recordings from accidental erasure, remove the tab located on the back side of the cassette. To re-record, simply cover the opening from which the tab was removed with adhesive tape.

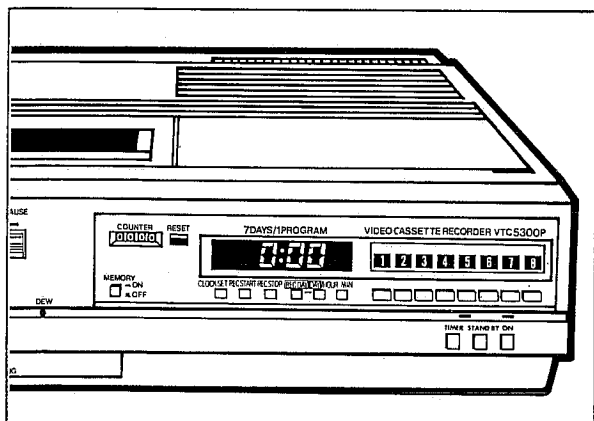


CARE OF THE BETACORD CASSETTE

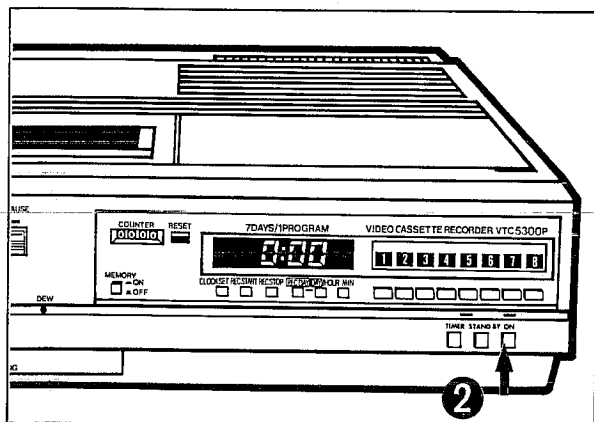
- * Do not use or store the BETACORD Cassette in a hot or humid environment. Be especially careful not to expose it to direct sunlight, heating equipment or electrical devices which emit a strong magnetic field. If the cassette has been exposed to cold temperatures, it should be stored at room temperatures for at least one hour before use.
- * It is important that the protective tape shutter be kept closed at all times and that you do not touch the video tape, as the fingerprints may affect the operation of the video cassette recorder.
- * For maximum protection of the BETACORD Video Cassette against dust or accidental damage, it is suggested that the cassette always be stored in its protective jacket when not in use.
- * The BETACORD Video Cassette is a precision device. Do not attempt to disassemble the plastic case. This may result in a malfunction of the cassette and damage to the video cassette recorder. In the event the cassette fails to function properly, repairs should be made only by Sanyo authorized service personnel.

SETTING THE CLOCK

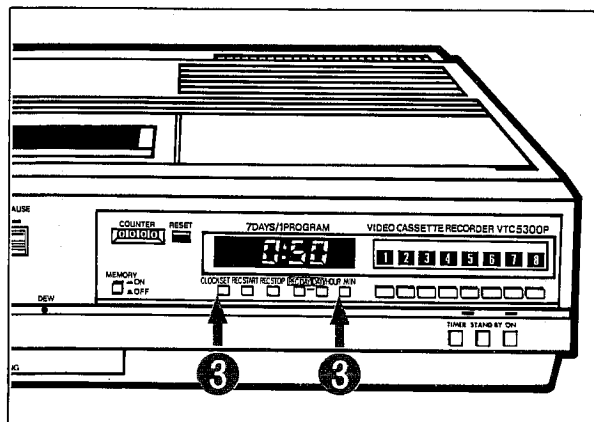
1. When connecting the video recorder to the mains, the time display will start to flash "0:00".



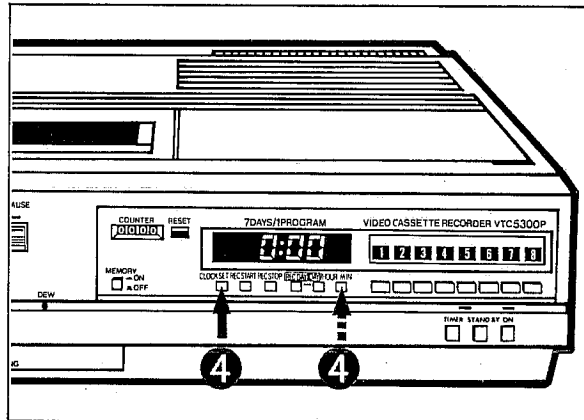
2. Push the POWER ON button. Observe that the POWER ON indicator illuminates.



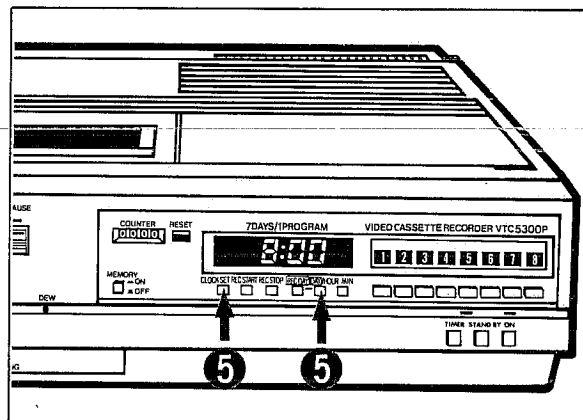
3. While you keep the CLOCK SET button depressed, push the MIN button until the minute indicator reaches about "XX:50".



4. While pressing the CLOCK SET button, push the MIN button one by one until the minute indicator reaches "XX:00", the clock will start to count from "0" second.



5. While pressing the CLOCK SET button, push the DAY/HOUR button until the hour indicator reaches the correct hour.



Note: The hour and minute indicator change automatically when the DAY/HOUR or MIN buttons are pressed for more than 2 seconds. The hour and minute indication will change by 1 digit every time these knobs are pressed.

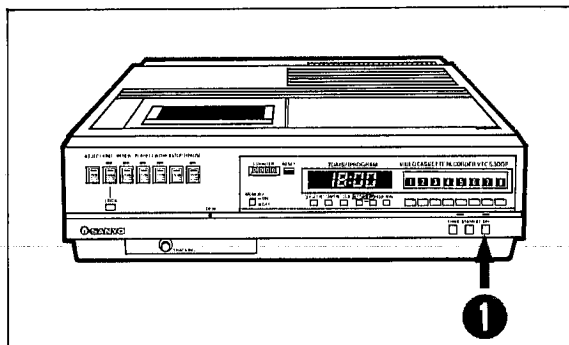
(POWER FAILURES)

If the mains power is interrupted, the time display will stop to indicate. When the mains power is restored the display will flash "0:00". Set the clock according to "SETTING THE CLOCK".

RECORDING TV PROGRAMMES

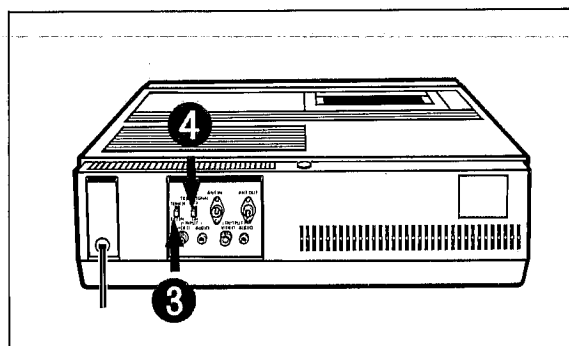
A. POWER ON

1. Push the POWER ON button.
2. Observe that the POWER ON indicator illuminates.



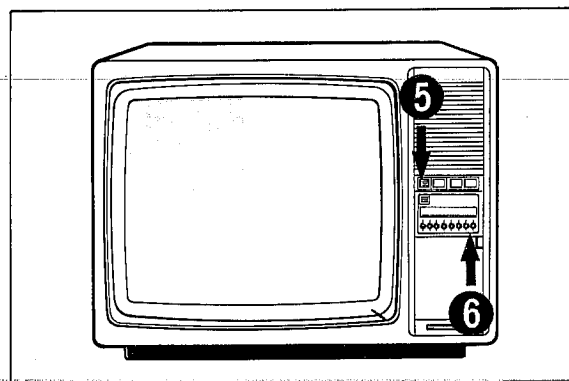
B. CHECK THE SWITCHES

3. TUNER/EXT IN switch "TUNER"
4. TEST SIGNAL switch "ON"



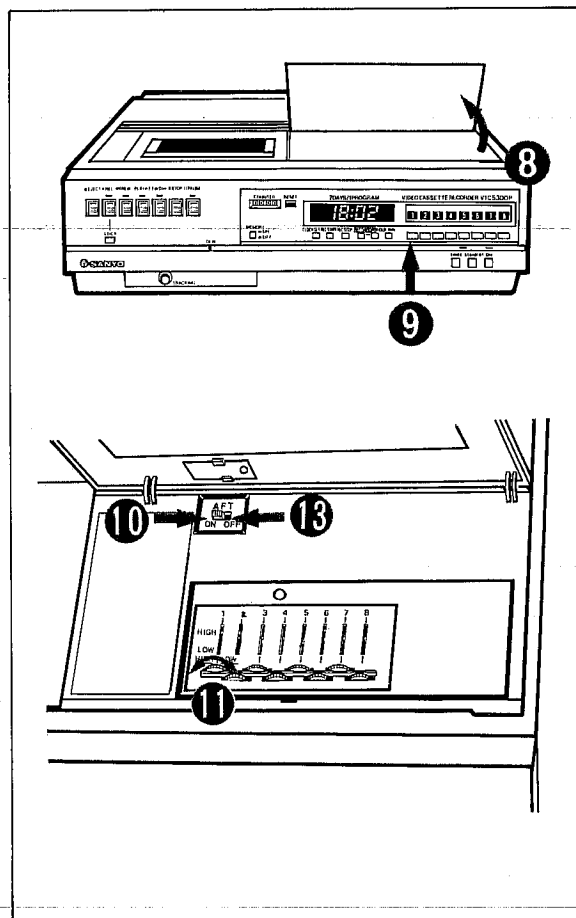
C. SET THE TV RECEIVER

5. Set the power switch to "ON" position.
6. At first set the TV channel around 36 (the RF output channel is preset on 36 at the factory) and carefully adjust the channel to get the black and white test signal pattern on the TV screen.
7. TEST SIGNAL switch to "OFF" position.



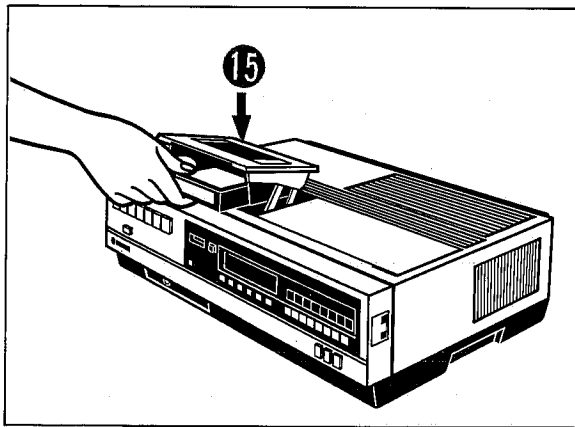
D. ADJUST THE TV PROGRAMMES ON THE VIDEO RECORDER

8. Open the tuner compartment cover.
9. Press the channel selector No. 1.
10. Set the AFT switch to "OFF" position.
11. By using the tuning knob "1" tune the first desired TV station until the best picture is obtained.
12. Press the channel selector No.2 and proceed in the same way as for the first station. Repeat it until all stations are stored.
13. Set the AFT switch to "ON" again for automatic frequency control.



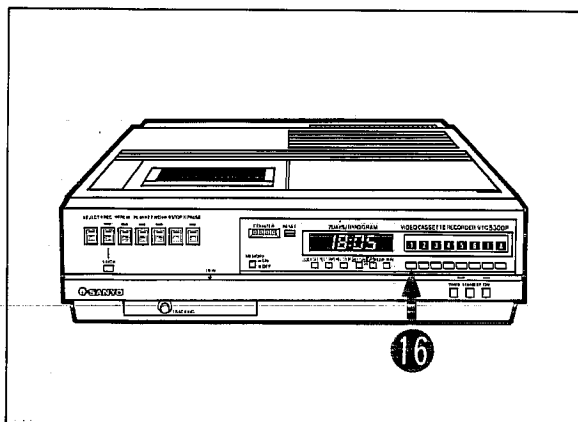
E. LOADING THE VIDEO CASSETTE

14. Push the EJECT button.
15. Insert a video cassette into the cassette loading door and close the door. The tape is automatically loaded.



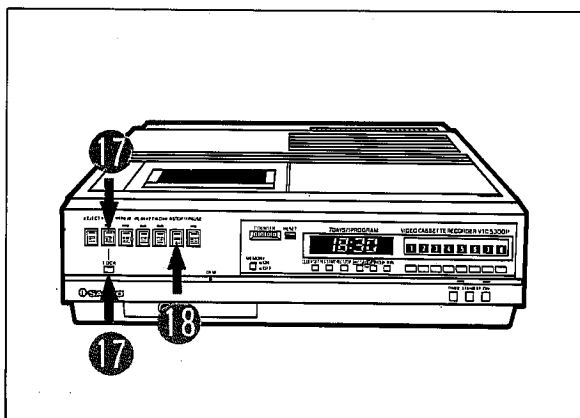
F. PROGRAMME MONITORING

16. Using the recorder's built-in tuner, adjust the TV channel to be recorded.



G. RECORDING

17. Push the LOCK button and the REC button to start recording.
18. Push the STOP button to end a recording.

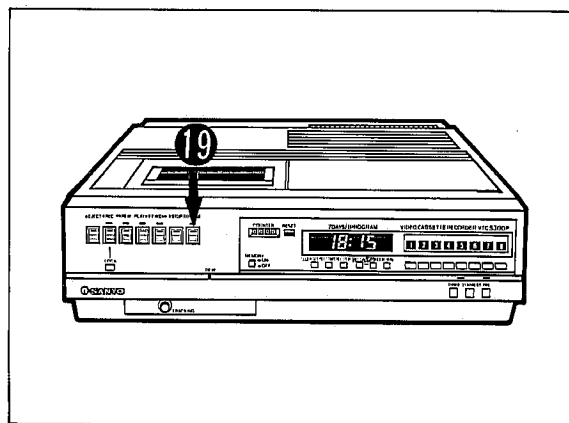


H. PROGRAMME EDITING

19. To edit out unwanted programme during recording, push the PAUSE button. Observe that the PAUSE indicator flashes to indicate "pause".

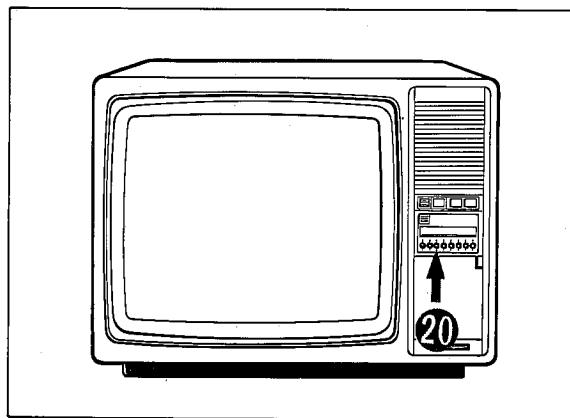
Please note that the PAUSE mode should not be kept more than three minutes in order to avoid unnecessary tape wearing. Push the PAUSE button again to resume recording.

Note: The video recorder will automatically stop if the PAUSE mode is maintained for about 5 minutes. This is to protect the tape from damage.



I. VIEWING ANOTHER TV CHANNEL WHILE RECORDING FROM THE VIDEO RECORDER'S TUNER

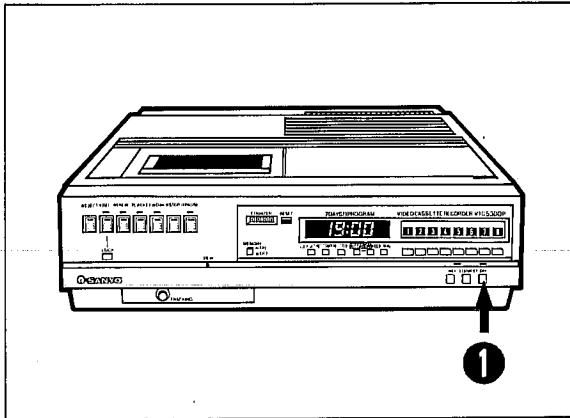
20. Tune the TV receiver to the desired channel.



PLAYBACK OF A PRE-RECORDED CASSETTE

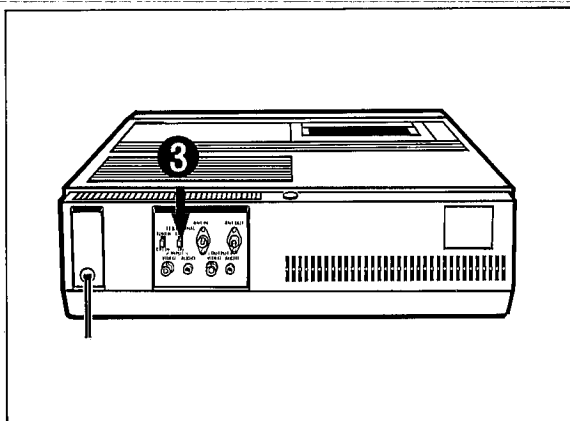
A. POWER ON

1. Push the POWER ON button.
2. Observe that the POWER ON indicator illuminates.



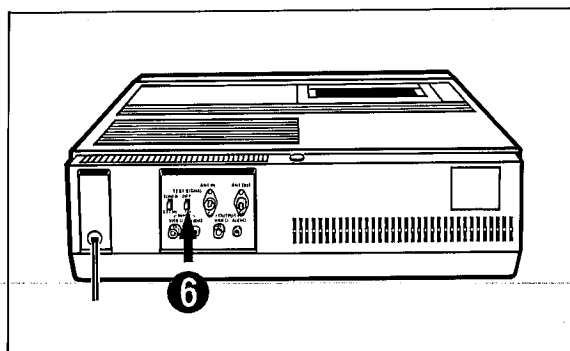
B. CHECK THE SWITCH

3. TEST SIGNAL switch "ON"



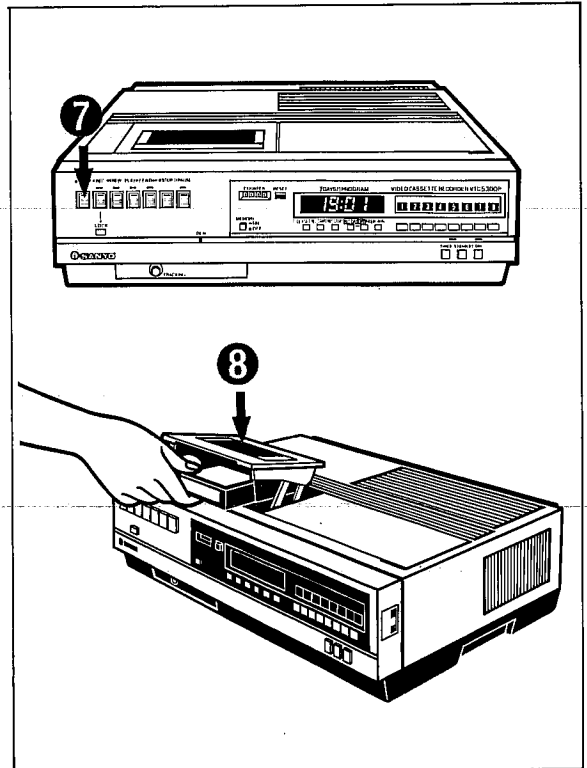
C. SET THE TV RECEIVER

4. Set the power switch to "ON" position.
5. At first set the TV channel around 36 (the RF output channel is preset on 36 at the factory) and carefully adjust the channel to get the black and white test signal pattern on the TV screen.
6. TEST SIGNAL switch to "OFF" position.



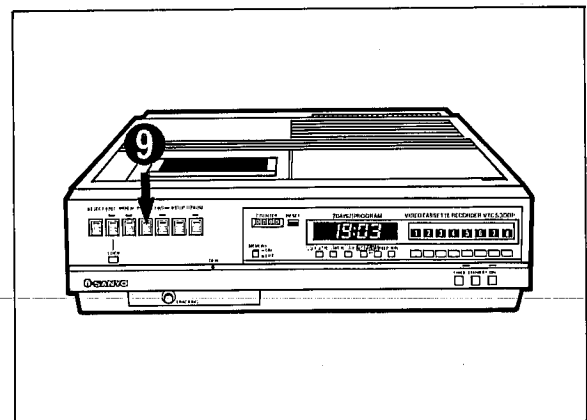
D. LOADING THE VIDEO CASSETTE

7. Push the EJECT button.
8. Insert a pre-recorded cassette into the loading door and close the door. The tape is automatically loaded.



E. PLAYBACK VIEWING

9. Push the PLAY button.



F. TRACKING ADJUSTMENT

10. Adjustment of the video head tracking is normally required only when playing back video cassettes recorded on another recorder. Mistracking is indicated when a narrow band of horizontal noise appears in the picture as shown in the illustration. In this case, a perfect noise-free picture may be obtained by rotating the tracking control to the right or left as required. When video cassettes are recorded and played back on the same machine, the tracking control should be kept in the mid (notch) position for optimum picture quality.

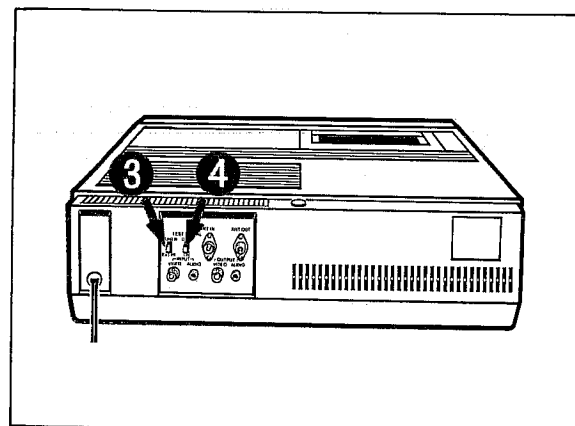
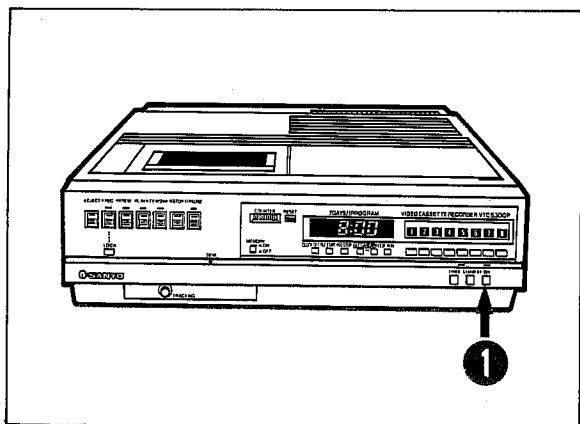


RECORDING WITH A VIDEO CAMERA

- * For best results, it is recommended that a camera with an internal 2:1 interlace should be used for video recording. For example SANYO VCC 545P, VC 1400.

A. POWER SWITCH ON

1. Push the POWER ON button.
2. Observe that the POWER ON indicator illuminates.

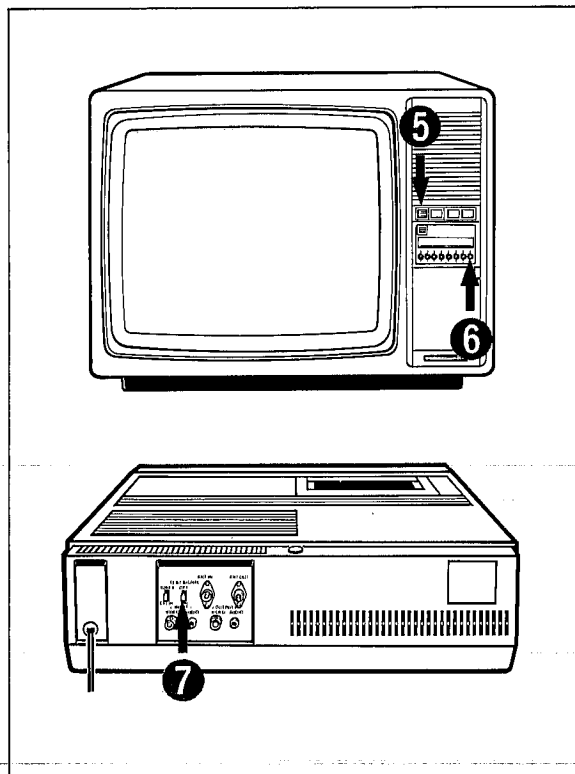


C. SET THE TV RECEIVER

5. Set the power switch to "ON" position.
6. At first set the TV channel around 36 (the RF output channel is preset on 36 at the factory) and carefully adjust the channel to get the black and white test signal pattern on the TV screen.
7. TEST SIGNAL switch to "OFF" position.

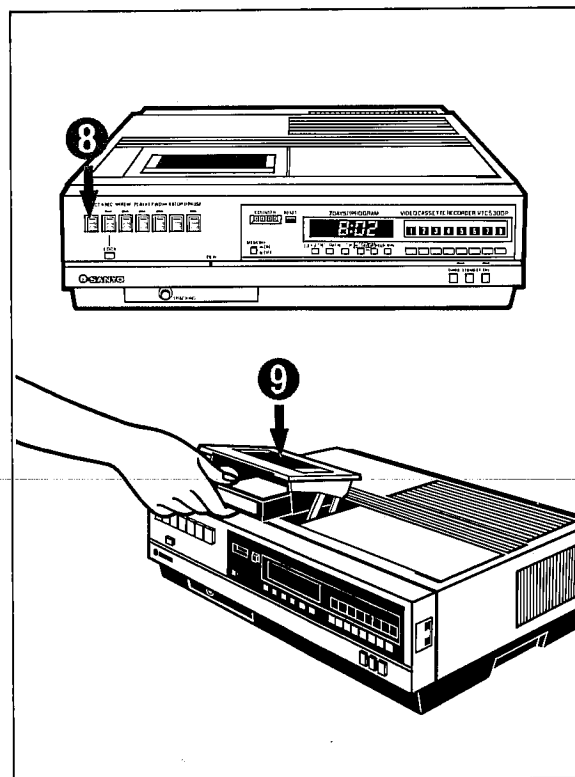
B. CHECK THE SWITCHES

3. TUNER/EXT IN switch "EXT IN"
4. TEST SIGNAL switch "ON"



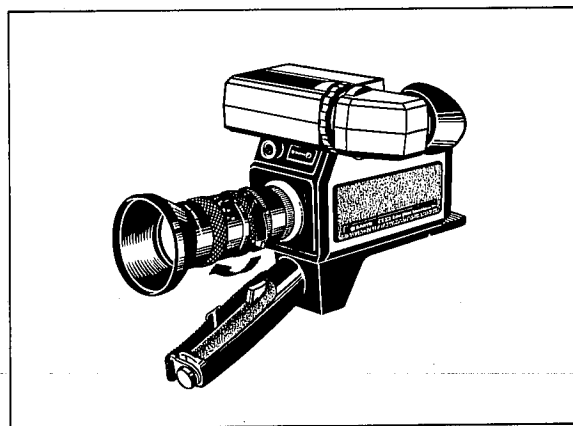
D. LOADING THE VIDEO CASSETTE

8. Push the EJECT button.
9. Insert a video cassette into the cassette loading door and close the door. The tape is automatically loaded.



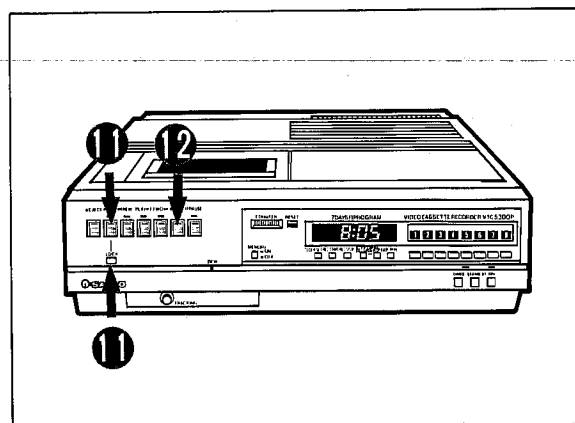
E. MONITORING

10. Adjust the camera for the best picture.



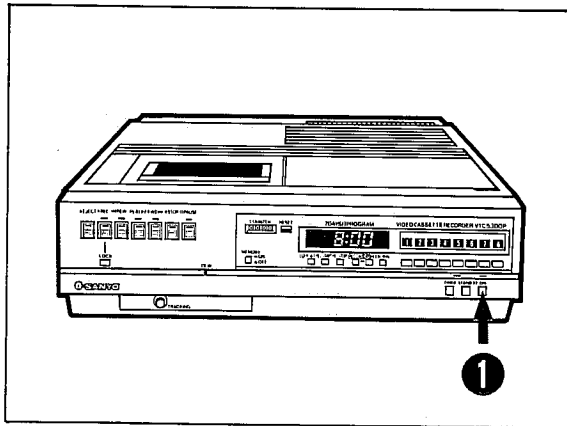
F. RECORDING

11. Push the LOCK button and the REC button to start recording.
12. Push the STOP button to end a recording.



PROGRAMMABLE TIMER SETTING

1. Push the POWER ON button.
Observe that the POWER ON indicator illuminates.

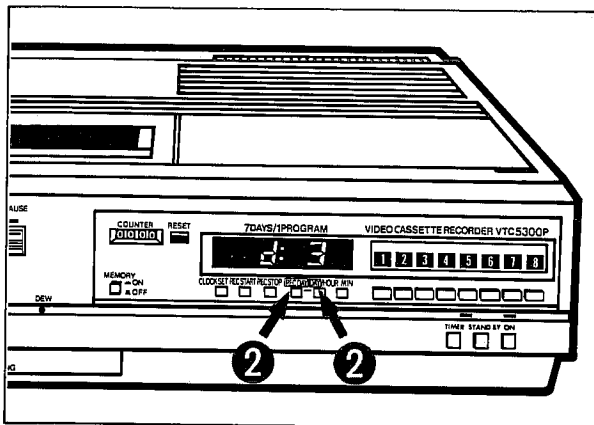


2. While you keep the REC DAY button depressed, push the DAY/HOUR button to set the day of automatic recording.

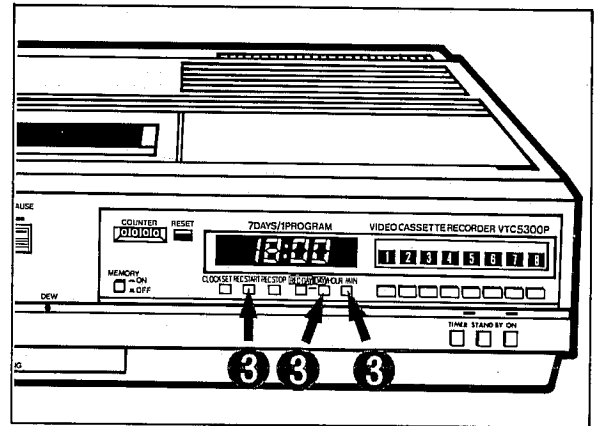
The display shows recording day as follows:

- d : 1= today up to midnight
- d : 2= tomorrow
- d : 3= the day after tomorrow
- d : 4= 4th day from today
- d : 5= 5th day from today
- d : 6= 6th day from today
- d : 7= 7th day from today
- d : E= every day

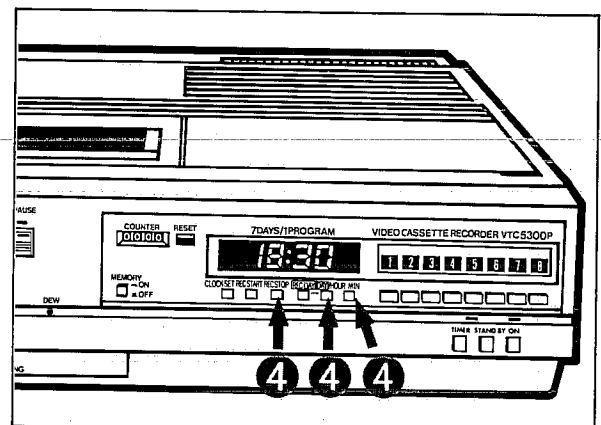
If set to d : E (every day), programmes transmitted at the same time every day (and on the same channel) are recorded until the tape is completely used.



3. While you keep the REC START button depressed, push the DAY/HOUR or MIN button to set the starting time of automatic recording.



4. While you keep the REC STOP button depressed, push the DAY/HOUR or MIN button to set the ending time of automatic recording.



PROGRAMME READ-OUT AND CONFIRMATION

Push the POWER ON button. When the REC DAY, REC START or REC STOP button is pushed, the preset day or time will be recalled on the display.

A. READ-OUT AND CONFIRMATION OF RECORDING DAY

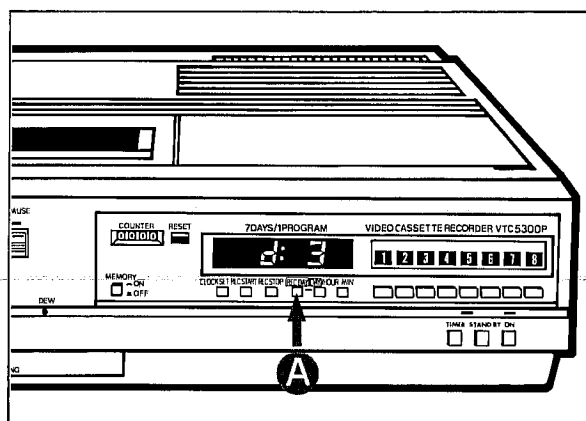
Push the REC DAY button.

Note: The recording day read-out will decrease by 1 at each day.

For example, today the display shows "d : 3".

Tomorrow it will change to "d : 2" and so on.

("d : 1" and "d : E" do not change.)



B. READ-OUT AND CONFIRMATION OF THE STARTING TIME OF AUTOMATIC RECORDING

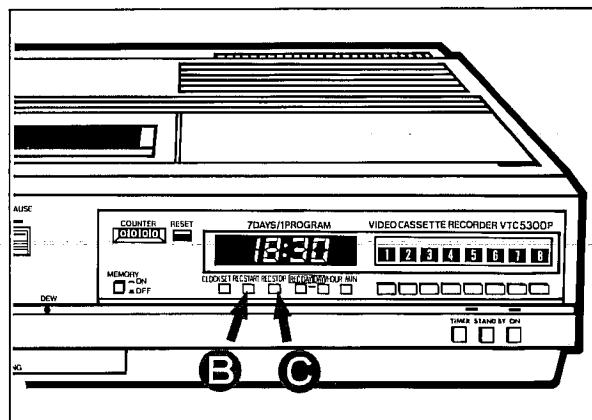
Push the REC START button.

Note: If no starting time has been set, the read-out will be "-- : --".

C. READ-OUT AND CONFIRMATION OF THE ENDING TIME OF AUTOMATIC RECORDING

Push the REC STOP button.

Note: If no ending time has been set, the read-out will be "-- : --".

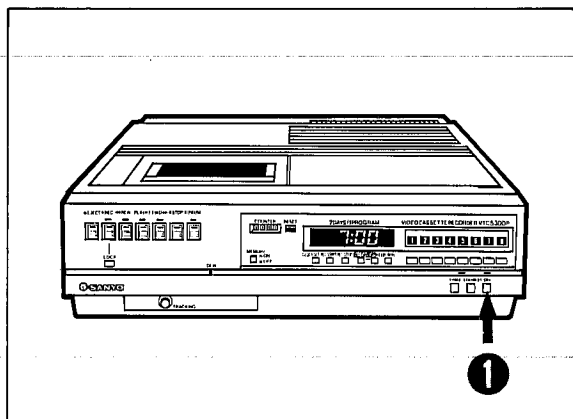


RECORDING WITH THE BUILT-IN VIDEO TIMER

* For maximum recording flexibility, the model VTC 5300P features a built-in electronic recording timer. This special convenience feature permits unattended, fully automatic recording of a pre-selected TV programme during your absence.

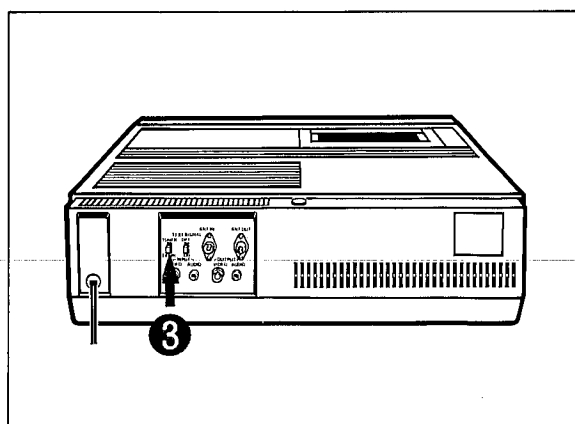
A. POWER ON

1. Push the POWER ON button.
2. Observe that the POWER ON indicator illuminates.



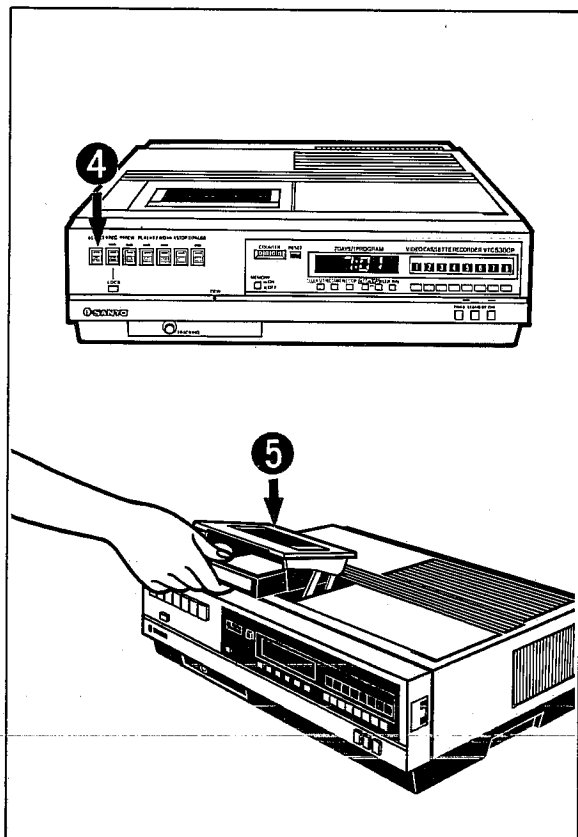
B. CHECK THE SWITCH

3. TUNER/EXT IN switch "TUNER"



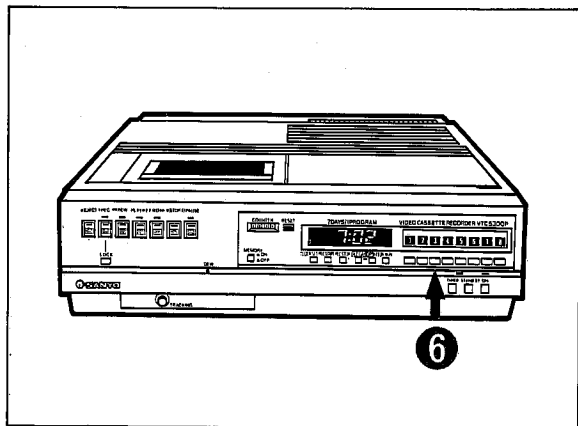
C. LOADING THE VIDEO CASSETTE

4. Push the EJECT button.
5. Insert a pre-recorded cassette into the loading door and close the door. The tape is automatically loaded.



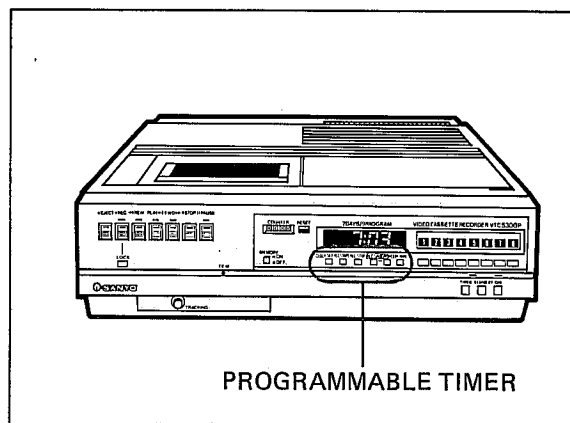
D. CHANNEL SETTING

6. Push the selector of the desired channel.



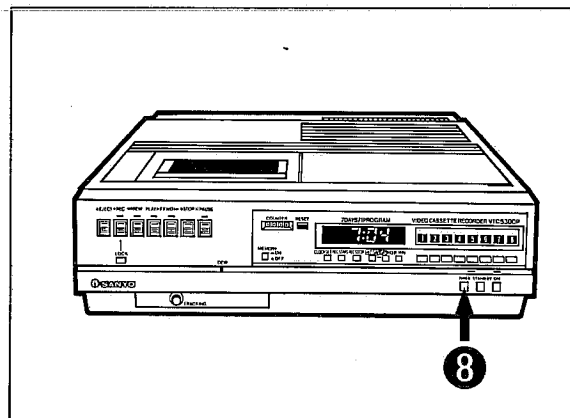
E. SETTING THE PROGRAMMABLE TIMER

7. Set the programmable timer, refer to the section titled "PROGRAMMABLE TIMER SETTING".



F. PREPARATION OF RECORDING

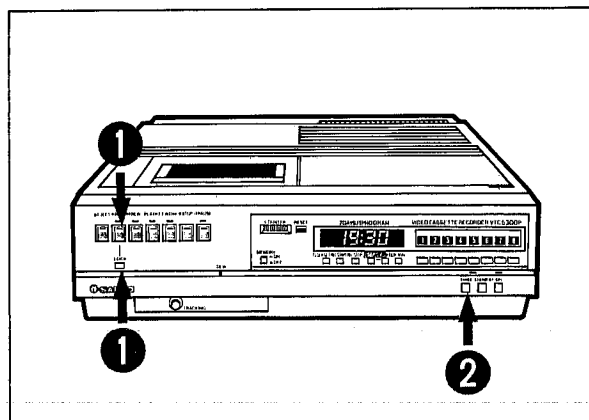
8. Push the TIMER button. Observe that TIMER indicator illuminates and that POWER ON indicator goes out. Recorder will automatically turn on and start recording when the clock time reaches the preset recording start time. Recording will continue until preset recording stop time, at which time the recorder will automatically switch off.



AUTOMATIC TERMINATION OF RECORDING

Under certain circumstances, such as when retiring for the night, it may be convenient to start the recording function manually and set the recorder to automatically switch-off at the end of the tape.

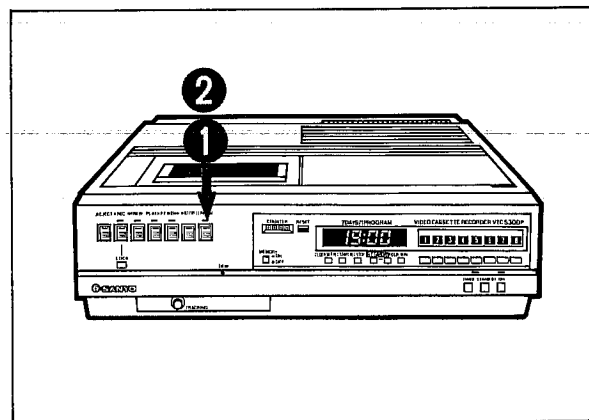
1. Refer to the section titled **"RECORDING TV PROGRAMMES"** and follow all procedures.
2. Push the **TIMER** button and set the power switch of the TV receiver to the **"OFF"** position.
3. Recording will continue to the end of tape, at which time the recorder will automatically switch-off.



EDITING PROGRAMME MATERIALS

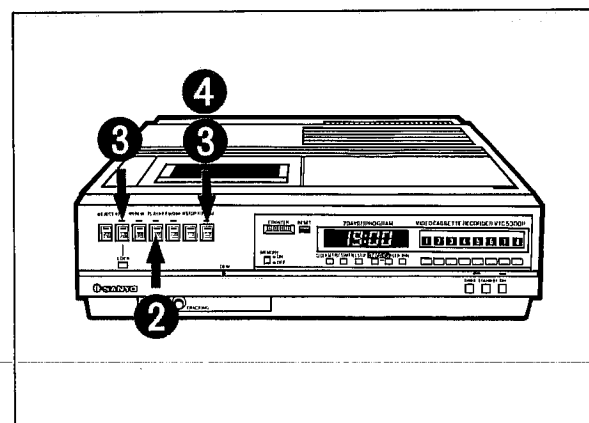
A. EDITING DURING RECORDING

1. To edit out unwanted programme during recording push the **PAUSE** button. Observe that the **PAUSE** indicator flashes to indicate **"pause"**. Please note that the **PAUSE** mode should not be kept more than 3 minutes in order to avoid unnecessary tape wearing.
2. To resume recording, push the **PAUSE** button again.



B. ADDING NEW MATERIALS TO A PRE-RECORDED CASSETTE

1. Check to see that the tab covering the recording prevention hole has not been removed. If it has, cover the hole with adhesive tape.
2. Operate the recorder in the playback mode as outlined in the section titled **"PLAYBACK OF A PRE-RECORDED CASSETTE"**.
3. At the precise point on the tape you wish to add the new material, push the **PAUSE** button then push the **REC** button.
Note: After **PAUSE** push only **REC** for new recording (**LOCK** not necessary).
4. To start recording, push the **PAUSE** button again.
5. To stop recording, push the **STOP** button.



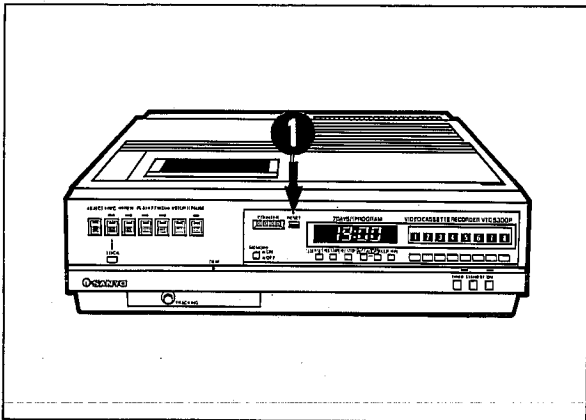
AUTOMATIC REWIND SYSTEM AND MEMORY COUNTER

The model VTC 5300P contains an auto rewind function which automatically rewinds the tape when it reaches the end in the recording, playback and fast forward modes except in timer mode. It is a good idea to use this function along with the memory counter.

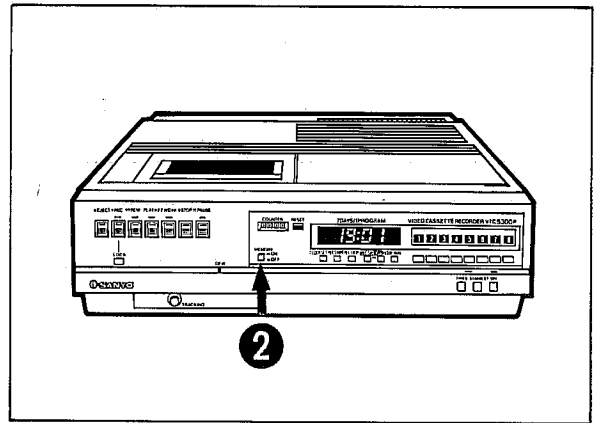
(USING THE MEMORY COUNTER)

The memory counter can be used to memorize the counter "0000" tape position, and the video recorder will stop automatically when the counter reaches "0000" while the tape is being rewound.

1. Push the RESET button and reset the COUNTER to "0000".



2. Push MEMORY button to the ON position.



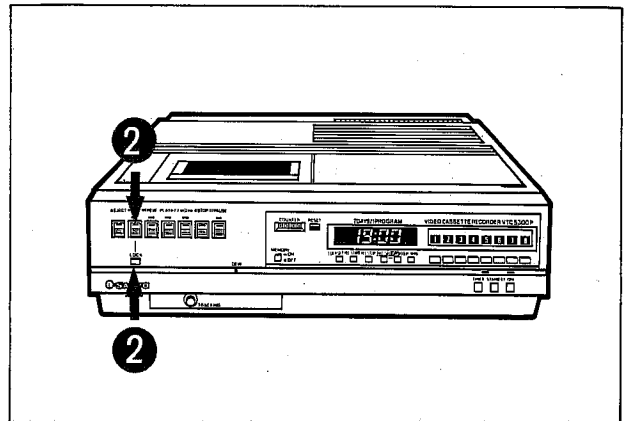
Notes:

- * The memory counter works only in the rewind mode.
- * The video recorder is set to stop mode when the counter indicates approximately "0000". To rewind the tape further, push the REW button again.
- * When the memory counter function is not employed, the tape is rewound to its start and the video recorder is set to stop mode.

TAPE ERASING

During the recording process, all video and audio information is automatically erased prior to the actual recording of the new video and audio programme. Therefore, to erase a tape, the following procedure can be used.

1. Be sure that nothing is connected to the VIDEO INPUT and AUDIO INPUT connectors.
2. Operate the recorder in the RECORD mode as outlined in the section titled "RECORDING WITH A VIDEO CAMERA".
3. Since there are no inputs, the tape will be erased and no new video and audio information will be recorded.



MAINTENANCE

The VTC 5300P is a precision instrument and, treated with care, will provide years of satisfactory performance. However, in the event of difficulties, the owner is advised not to attempt to make repairs or open the cabinet. Servicing should always be referred to your Sanyo Authorized Dealer.

TROUBLE SHOOTING

The Model VTC 5300P is a highly sophisticated instrument. It is shipped from the Sanyo factory after having been checked and adjusted under the most rigid quality control and inspection system. Should problems appear, check the following points.

INSERTING OR REMOVING THE CASSETTE

Symptom	Cause	Check Point & Correction
Cassette Loading Door does not open by pushing EJECT button.	* POWER ON button is not pushed. * AC line power to the recorder has been interrupted.	* Push POWER ON button. * Check if AC power cord is plugged in.
Cassette cannot be inserted into recorder.	* Cassette is reversed.	* Load cassette in direction indicated by arrow on cassette.

RECORDING TV PROGRAMMES

Symptom	Cause	Check Point & Correction
No picture on TV screen.	* TUNER/EXT IN switch is set to "EXT IN" position. * TV channel selector is not set to channel 36.	* Set switch to "TUNER" position. * Set TV channel selector to channel 36.
A picture appears on TV screen but is not clear.	* The off air reception on the VTR is poor. * Reception on the TV receiver is poor.	* Adjust tuning knob on VTR to obtain the best picture. * Adjust tuning knob of TV receiver to obtain the best picture.
No recording even when LOCK button and REC button are pushed. (REC indicator flashes)	* Accidental erasure tab has been removed from cassette.	* Stick a piece of cellophane tape over prevention hole.
No recording even when LOCK button and REC button are pushed. (REC indicator does not light)	* Moisture condensation on head drum: DEW indicator on.	* Wait until DEW indicator goes out.

Indicators

POWER ON	red LED
TIMER	red LED
REC	red LED
PAUSE	red LED
REW	red LED
PLAY	red LED
F FWD	red LED
Tuner selection	red LED
DEW	red LED

Electrical characteristics

Video output level	1 ± 0.2 Vp-p
Video output impedance	75 ± 5 ohms
Audio output level	-5dBs
Video input level	$0.5 - 2$ Vp-p
Video input impedance	75 ± 5 ohms
Audio input level	AUDIO IN -10 dBs
Audio input impedance	AUDIO IN high
Video S/N	More than 42 dB
Audio S/N	More than 40 dB
Horizontal resolution	Colour 270 lines B/W 300 lines
Audio bandwidth	50 Hz - 10 kHz

Other characteristics

Wow and flutter	Less than 0.3 % pp DIN
Loading time	Less than 4 sec.
Unloading	Less than 4 sec.
Power requirement	AC 240V +10 -10 %, 50 Hz, 40 W (8 W at STAND BY)
Dimensions	480(W) x 135(H) x 350(D) mm
Weight	10 kg

Power switch of this set is connected in the secondary circuit and does not disconnect the set from AC-power even if the switch is in off (**STAND BY** position) so far as AC cord is connected to AC line.
Disconnect the mains plug from the supply socket when not in use.



SANYO ELECTRIC CO., LTD.
OSAKA, JAPAN

RECORDING WITH VIDEO CAMERA

Symptom	Cause	Check Point & Correction
Camera picture does not appear on TV screen.	* TUNER/EXT IN switch is set to "TUNER" position. * TV channel selector is not set to channel 36.	* Set switch to "EXT IN" position. * Set TV channel selector to channel 36.
A picture appears on TV screen but is not clear.	* Reception on the TV receiver is poor. * Lens iris is not sufficiently open. * Not enough light.	* Adjust tuning knob of TV receiver to obtain the best picture. * Adjust iris. * Increase illumination.
No recording even when LOCK button and REC button are pushed. (REC indicator flashes)	* Accidental erasure tab has been removed from cassette.	* Stick a piece of cellophane tape over prevention hole.
No record mode even when LOCK button and REC button are pushed. (REC indicator does not light)	* Moisture condensation on head drum: DEW indicator on.	* Wait until DEW indicator goes out.

PLAYBACK OF PRE-RECORDED CASSETTE

Symptom	Cause	Check Point & Correction
No picture appears on TV receiver screen when PLAY button is pushed.	* TV channel selector is not set to channel 36.	* Set TV channel selector to channel 36.
No picture, but audio is clear.	* Dust and dirt on video heads.	* Take unit to Sanyo Authorized Dealer.
Noise interferes with playback picture.	* Reception on the TV receiver is poor. * Misadjustment of tracking control. * Dust and dirt on video heads.	* Adjust tuning knob of TV receiver to obtain the best picture. * Adjust tracking control. * Take unit to Sanyo Authorized Dealer.
No playback even when PLAY button is pushed. (PLAY indicator does not light.)	* Moisture condensation on head drum: DEW indicator on.	* Wait until DEW indicator goes out.

DIGITAL DISPLAY

Symptom	Cause	Check Point & Correction
Digital display is flashing.	* Interruption of AC power.	* Reset time according to instructions.

BETA-FORMAT VIDEO CASSETTE RECORDER SPECIFICATIONS

Television system	CCIR I/PAL standard colour TV
Recording system	Rotary two head helical scan system
Tape speed	18.73 mm/sec.
Recording time	3 hours 15 minutes with L-750 cassette
Tape loading	Automatic loading (U-type)
Video cassettes	L-250, L-500 and L-750
	Dimensions 96 (W) x 25 (H) x 156 (D) mm
Tuner	8 channels varactor tuner
Tuner input	Channel 21 — 69
RF converter	Built-in UHF converter
Converter output	On channel 30 — 39 (adjustable), Pre-adjusted to 36
Timer	Built-in digital timer, 24 hours clock, one week-one programme timer
Tape counter	4 digits mechanical counter
Tape rewind memory	Available by push button
Fast forward time	6 min. with L-750 cassette
Rewind time	6 min. with L-750 cassette

Controls

Tape transport	EJECT, REC, REW, PLAY, F FWD, STOP, PAUSE	push button
Power switch	POWER ON, STAND BY, TIMER	push button
Tracking	TRACKING	mid position notch, VR
Timer	CLOCK SET	push button
	REC START	push button
	REC STOP	push button
	REC DAY	push button
	DAY/HOUR	push button
	MIN	push button
Counter	RESET	push button
	MEMORY	push button
Tuner selection	8 positions soft touch sensor	
Channel adjustment UHF	U 21 — 69	VRs
Input selection	TUNER/EXT IN	slide switch
RF converter	CHANNEL ADJUSTMENT 30 — 39	VR

Terminals

Antenna input	ANT IN	DIN female
Antenna output	ANT OUT	DIN male
Video input	VIDEO INPUT	BNC
Video output	VIDEO OUTPUT	BNC
Audio input	AUDIO INPUT	3.5 mm ϕ RCA
Audio output	AUDIO OUTPUT	3.5 mm ϕ RCA