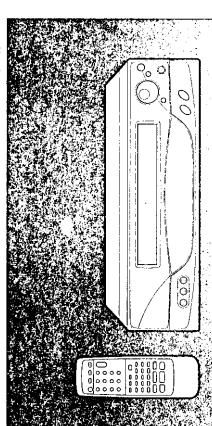
ATTACHMENT N



VIDEOGRABADOR DE CASSETTE VIDEO CASSETTE RECORDER

VHF6010





WHICH YOUR PARENTS & GRANDPARENTS BOUGHT IN THE 1960'S, HAS SINCE BEEN AVAILABLE TO YOU WITH THE SAME COMMITMENT THE "ORIGINAL" LINE OF BROKSONIC CONSUMER ELECTRONICS. TO HIGH QUALITY. LA LINEA "ORIGINAL" DE PRODUCTOS ELECTRONICOS BROKSONIC LOS CUALES SUS PADRES Y ABUELOS COMPRABAN EN LOS AÑOS 60, SIGUE DISPONÍBLE PARA USTEDES CON EL MISMO COMPROMISO DE ALTA CALIDAD.



Before operating the unit clease rend this manual thoroughly. Anles de utilizar su aparato tayor de feur this sign intestinactiones.

4 Video Heads - Provides optimal picture quality for special effects playback.

Hi-Fi Stereo Sound - With a frequency response of 29 to 20,000 Hz and a dynamic range of better than 85dB this VCR provides a level of excellence that rivals compact discs.

Full Load Tape Transport - Permits rapid access between modes.

8-Program/1-Month Programmable Timer with Everyday/Every Week Capability - The built-in timer allows automatic absentee recording of up to 8 TV programs within 1month. It is also possible to record a program which is broadcast at the same time everyday or every week.

carried out using the on-screen display menu system. On-Screen Display and Programming - When you select a channel or make other changes, the TV will show an indicator on the screen for a lew seconds. Clock settings, timer setting and other set-up operations can be

Digital Auto Tracking - Automatically adjusts tracking during playback for the best possible picture

181 Channel Tuner - Receives standard VHF and UHF broadcast channels and up to 113 cable channels.

One-Touch Timer Recording (OTR) - Simply by prossing the REC/OTR button, the VCR can be programmed for up to 5 hours of recording with an immediate start.

Automatic Power On - When loading a cassette tape, this VCR will automatically turn on

Automatic Playback - When loading a cassette tape without the crase prevention tab, this VCR will automatically turn on and play back the cassette tape at the correct speed.

Automatic Rewind-Stop-Eject-Power Off. When a tape reaches its end during playback and recording, it will automatically stop, rewind, stop, eject the tape and the VCR will turn off.

On-Screen 3 Language Display • You can select one of 3 languages: English, Spanish or French, for on screen programming.

Automatic Repeat Play System - When the AUTO REPEAT option is turned on this VCR will automatically play back the same cassette tape repeatedly.

Variable Speed Slow Motion - This VCR provides Variable speed slow motion which offers steady, noise free playback at 1/5-1/30 normal speed.

Frame by Frame Advance - Press the SLOW button during still playback to advance the tape one frame at a

1.50

Skip Search - When the SKIP SEARCH button on the remote control is pressed during playback, the VCR will automatically search forward through approximately 30 seconds of tape with each pross of the SKIP SEARCH button, and then return to normal playback.

Real Time Tape Counter with Zero Return - The counter displays real tape time and the zero return function can be used to return the tape to a preselected position (30:00:00) while the counter can be used to locate

TV Monitor - When the TV MON: (Monitor) butten on the remote control is pressed during playback, the TV channel selected on the VCR can be viewed.

Channel Skip - An unwanted channel can be deleted when using the CHANNEL ▲ or ▼ button

14.31

2 Speed Picture Search - 3 or 5 times normal speed in SP mode (7X or 9X in LP and 9X or 15X in SLP)

3 Speed Record/Playback - Records and plays three tape speeds (SP, LP, SLP)

broadcasts where available. Stereo/SAP Reception - This VCR is designed to receive stereo and separate audio program (SAP)

Auto Head Cleaning System - Cleans the video heads automatically when a cassette tape is loaded and ejected. Video Index Search System - Locates the beginning of any recording made on the VCR

Audio/Video In Jacks - A VCR or other video device may be hooked up for dubbing

Front

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Manual prior to operating your new VCR. We recommend that you carefully read the descriptions and operating procedures contained in this Owner's



ENGLISH

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4

PRECAUTIONS

MOISTURE CONDENSATION

DO NOT OPERATE THIS VCR FOR AT LEAST TWO OR THREE HOURS WHEN MOISTURE IN THE AIR CONDENSES ON THE VCR.

■ WHAT IS MOISTURE CONDENSATION?

glass. This is called moisture condensation. When a cold liquid is poured into a glass, for example, water vapor in the air will condense on the surface of the

■ MOISTURE WILL CONDENSE ON THE UNIT IN THE FOLLOWING CASES;

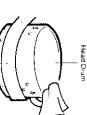
When you move this VCR from a cold to a warm place.

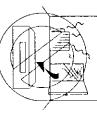
After heating a cold room or under extremely humid conditions

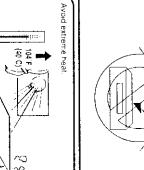
■ WHEN YOU EXPERIENCE THE ABOVE CONDITIONS,

moisture condensation disappears. Plug the power cord into an AC outlet, set the power switch to ON and leave the unit at room temperature until

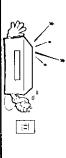
Depending on the surrounding conditions, this may take two or three hours.





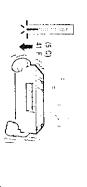


If you cause a static discharge when louching the VCR, and the VCR fails to function, simply unplug the unit from the wall coulet, wait a few involves and plug it back in. The VCR should return to normal operation.



Avoid extreme cold

Do not place the VCR on or near appliances which may cause electromagnetic interference, e.g. TV, speakers, etc. Doing so may cause erratic operation of the VCR including picture and/or sound distortion or noise.

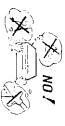




Avoid extreme moisture and dust



Do not insert fingers or any other objects into the cassette loading slot. Do not spray cleaner or wax directly on the VCR or use forced air to remove dust.

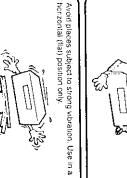


Keep the VCR away from flower vases, sinks, etc. It inquids should be spilled into the VCR, serious damage with result. It you spit any figuids into the VCR, unplug the AC power cond immediately and consult qualified service personnel before attempting to use the VCR again.

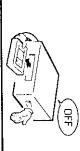


When you leave your home for a long time, unplug the AC power cord.

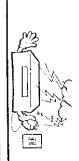




When you finish operating the VCR, always unload the cassette and turn off the power.

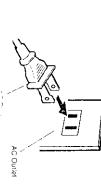


To protect the VCR from a lightning storm, unplug the AC power cord from the wall outlet and disconnect the antenna.



POWER SOURCE

If the polarized AC cord does not fit into a nonelectrician replace the obsolete outlet. blade, It is the user's responsibility to have an polarized AC outlet, do not attempt to file or cut the



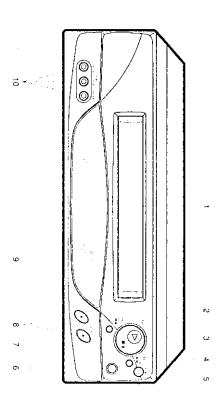


the holes with soft materials such as cloth or paper. The ventilation holes prevent overheating. Do not block or cover these holes. Especially avoid covering

LOCATION OF CONTROLS

FRONT

ENGLISH



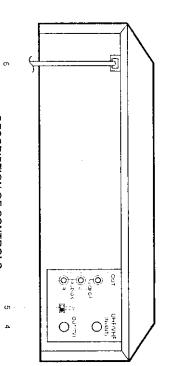
DESCRIPTION OF CONTROLS

- Cassette Loading Slot To insert or remove a video tape.
- 2. Rew button In the STOP mode, this button rapidly winds the tape backwards. In the PLAY mode, this button activates Reverse Search.
- Play button Press to play a prerecorded tape.
- 4. F. Fwd button In the STOP mode, this button this button activates Forward Search. rapidly winds the tape forward. In the PLAY mode,
- 5. Power button Turns the VCR power on and off
- 6. Rec/Otr button Press once to start normal recording. Additional presses activate One Touch Recording.

- 7. Stop/Eject button Press once to stop the tape in any mode. Press again (on the VCR) to eject the tape.
- 9. Remote Sensor Signals from the Remote Control 8. Channel ▲ / ▼ buttons - Used to select a channel for viewing or recording.
- are received here.
- Audio (L/R)/Video In Jacks Audio and video signal cables from an external source can be connected here

LOCATION OF CONNECTORS

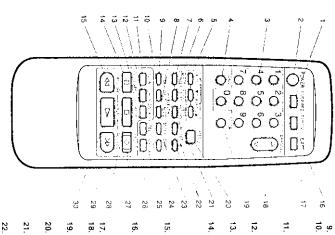
REAR



DESCRIPTION OF CONTROLS

- AUDIO (L/R)/VIDEO OUT Jacks Used to output audio and video signals to a TV, amplifier or VCR.
- VHF/UHF OUT (TV) Jack Used to output VHF/ UHF or CATV signats to a TV.
- 3/4 Channel Selector Switch Selects the channel through which the VCR outputs its signal to a TV.
- AC Power Cord Connect to a 120V 60Hz outlet.

REMOTE CONTROL



DESCRIPTION OF BUTTONS

Direct Channel Selection buttons (0-9) - Allow direct access to any channel.

POWER button - Turns the VCR power on and off. TIMER REC button - Used to set the VCR to start

recording at a preset time.

CALL button - Displays the present time day of the week, channel, counter, speed selection and VCR

> 26. 25 24.

- mode on the TV screen.
- AUTO/Manual TRACKING ▲ / ▼ buttons Allow minimize picture noise during playback. automatic or manual adjustment of tracking to

ψı

COUNT RESET button - Resets the Real Time

φ

- CLOCK/COUNTER selector button Switches between the clock and the real time tape counter.
- 90 AUDIO SELECT button - Switches sound between broadcasts in stereo or SAP mono and stereo, and SAP when receiveing

- 5 INPUT SELECT button - Switches the program for INDEX button - Used to search for the INDEX mark viewing between the VCR and external input
- = SLOW button - Press to play back a tape in slow during still playback. motion or to advance the tape one frame at a time
- SLOW button Press to speed down slow motion playback until it is 1/30 of normal speed playback
- 3 SLOW + button - Press to speed up slow motion playback until it is 1:5 of normal speed playback
- 5 4 REW button - In the STOP mode, this button button temporarily stops the tape. The "#" will appear on the screen. During playback, it stops the PAUSE/STILL button - During recording, this rapidly winds the tape backwards. In the PLAY tape and displays a still image on the TV screen.
- 5 TV MONI. (Monitor) button - Used to temperarily view a TV channel selected on the VCR while in the mode, this button activates Reverse Search.
- <u>...</u> 17. CHANNEL ▲ / ▼ buttons - Used to select a EJECT button - Press to eject the tape. playback mode.
- ē TV/VCR selector button - Switches between TV channel for viewing or recording. and VCR
- MENU button Press to display the on-screen menu
- SET +/- buttons Used to set the clock, timer ZERO RETURN button - Used to stop the tape when the counter reaches 00:00:00.
- ENTER button Used to enter information for timer sound mule. recording, auto repeat, language, clock setting and recording, auto repeat. language and noise mute.

23

- CANCEL button Used to clear the selected timer SPEED (SP/LP/SLP) selector button - Sels
- SKIP SEARCH button Press in the playback mode to search forward through approximately 30 seconds the tape speed for recording.
- REC/OTR button Press once to start normal

27.

F. FWD button - In the STOP mode, this button STOP button - Press once to stop the type Timor Recording recording. Adultional presses activate One-fouch

28. 29.

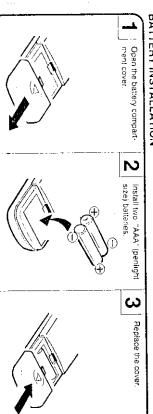
30. PLAY button - Press to play a prerecorded tape

this button activates Florward Search

rapidly winds the tabe forward. In the PLAY mode

BATTERY INSTALLATION

ENGLISH

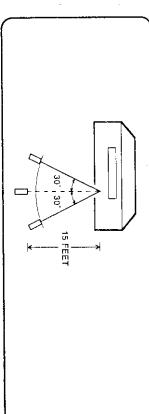


BATTERY CAUTIONS

Follow these precautions when using batteries in this device

- Use only the size and type of batteries specified.
- Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment
- ω Do not mix different types of batteries together (e.g. Alkaline and Carbon-zine) or old batteries with fresh Reversed batteries may cause damage to the device.
- If the device is not to be used for a long period of time, remove the batteries to provent damage or injury from possible battery leakage
- O Do not try to recharge batteries not intended to be recharged, they can overheat and rupture. (Follow battery manufacturer's directions.)

EFFECTIVE DISTANCE OF THE REMOTE CONTROL



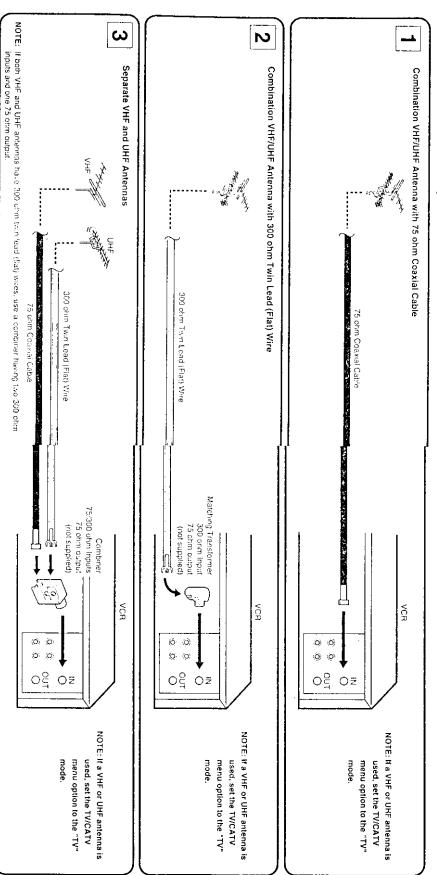
- NOTES: When direct sublight, an incandescent famo, fluorescent famp or any other strong light shines on the Remote Sensor, the remote operation may be unstable.
 When there is an elistacte between the VCR and the remote control, the remote control may not operate.

If you are using an antenna system, follow the instructions on pages 14-17. If you are a cable (CATV) subscriber, skip ahead to page 18 for the proper connections.

ANTENNA TO VCR CONNECTION

The VCR must be connected "between" the antenna and the TV. First, disconnect the antenna from the TV and connect it to the VCR. Then connect the VCR to the TV. Below are 3 common methods of connecting an antenna system to a VCR. Find the type of antenna system you are using and follow the connection diagram. After you have connected the antenna to the VCR, follow the instructions on pages 16-17 to connect the VCR to the TV.

This VCR has a single 75 ohn antenna input for connection to an antenna (VHF;UHF) or cable (CATV) system. If you have separate VHF and UHF antennas (number 3 below), use a combiner to connect the antennas to the VCR.



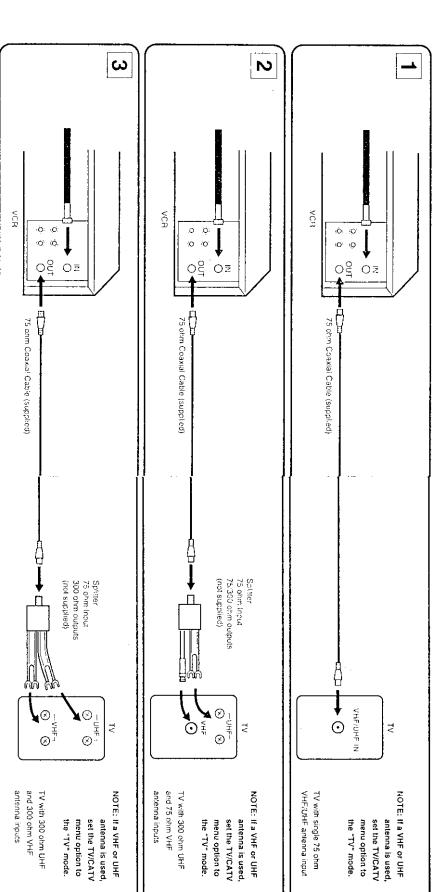
NOTES: • A clear picture will not be obtained by the VCR unless the antenna signal is good. Connect the antenna to the VCR properly.

- For better quality recording, an indept jettersha or a totocoops antermal is not recommended. The use of an outdoor type antering as required.
 If you are not sure about the aremost or in the area of the transplantion of specific

VCR TO TV CONNECTION

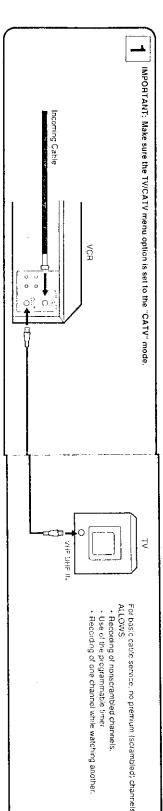
After you have connected the antenna to the VCR (see pages 14.8-15), you must connect the VCR to the TV. Below are 3 common methods of connecting your VCR to a TV. Find the type of TV you are using and follow the connection diagram.

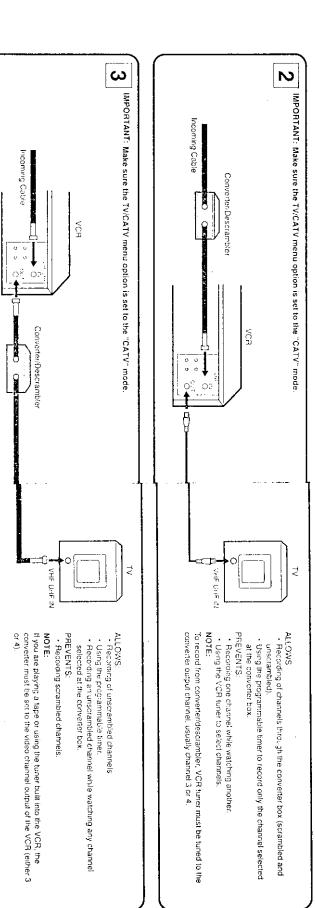
This VCP, has a single 75 ohm output for connection to a TV. If your TV has separate VHF and UHF antenna inputs (numbers 2 and 3 below), use a splater to connect the VCR to the TV for VHF and UHF reception.



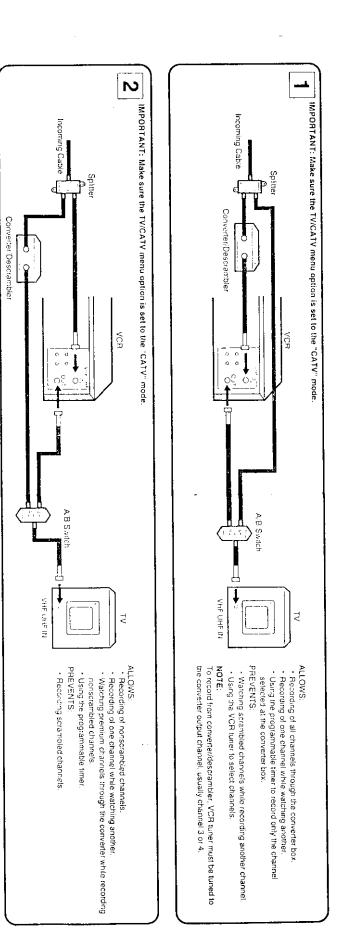
Many cable companies offer services permitting reception of extra channels including pay or subscription channels. This VCR has an extended tuning range and can be tuned to most cable channels without using a cable company supplied converter box, except for those channels which are intentionally scrambled. If you subscribe to a special channel which is scrambled, you must have a descrambler box for proper reception.

This VCR cannot receive scrambled programs since it does not contain a descrambler. In order to receive scrambled programs, your existing descrambler must be used. Descrambler boxes are available from cable companies. Consult your local cable company for more information concerning connection to their descrambler equipment. There are many ways to connect your VCR to a cable system. Below are six common methods of connection.





NOTE: Whenever a Converter/Descrambler bux is placed before the VCR, you must tune the VCR to the output of the Converter/Descrambler box, usually channel 3 or 4.



NOTE: Whenever a Converter/Descrambler box is claced before the VCR, you must tune the VCR to the output of the Converter/Descrambler box, usually charact 3 or 4.

Converter/Descrambler

IMPORTANT: Make sure the TV/CATV menu option is set to the "CATV" mode

Converter:Descrambler

A'B Switch

WHF.UHF IN

NOTE:

PREVENTS.

at the converter box.

Using the VCR tuner to select channels.

Recording of all channels through the convener box.
 Recording a scrambted or unscrambted channel while watching another (scrambted or unscrambted) channel.

Using the programmable timer to record only the channel selected

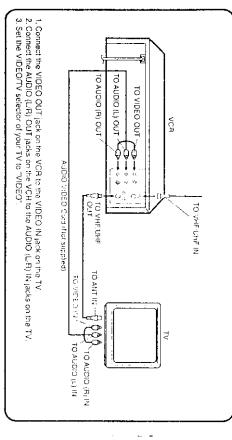
the convertor output channel, usually channel 3 or 4.

To record from converter:descrambler, VCR tuner must be tuned to

AUDIO/VIDEO CONNECTIONS

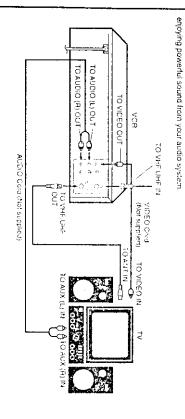
If your TV has AUDIO IN and VIDEO IN jacks, you can connect your VCR to them to receive a higher quality picture and sound. If you have a stereo, you can connect a stereo amplifier to enjoy powerful sound.

AUDIO/VIDEO CONNECTION



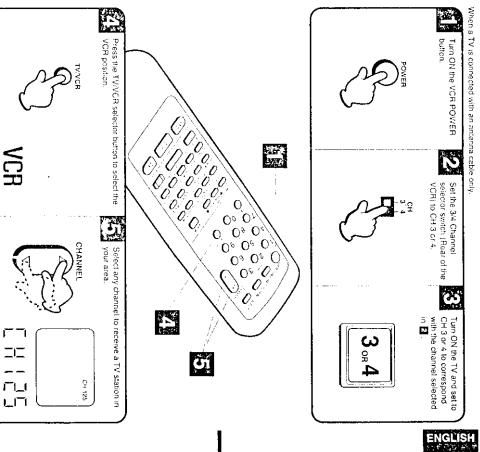
STEREO AMPLIFIER CONNECTIONS

When you connect your VCR to a Stereo Component System, you can view the picture from the VCR white enjoying powerful sound from your audio system.



SETTING THE VIDEO CHANNEL

To view playback of a recorded tape, or to watch a program selected by the VCR's channel selector, the TV must be set to channel 3 or 4 (video channel).



For a push-button TV tuner

The VCR indicator will eight in the display.

display about 4 seconds

The channel number will appear on the screen and

Connect the AUDIO (UR) OUT jacks on the YCR to the AUX (UR) jacks on the stereo ampilion

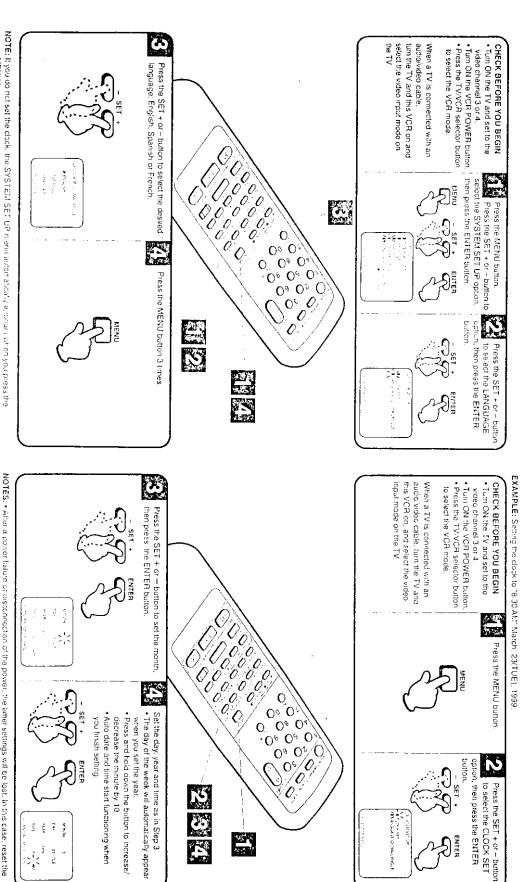
plature from the video cassiste recorder. Refer to your TV currers manual for octains charms) selector and the TV to CH 3 or 4, play back a pressorced tape and tune the TV to receive a sharp color If CH 3 or 4 corresponding to the viseo chamble cannot be tuned on your TV, proceed as follows: set the VCR 3:4

ON-SCREEN LANGUAGE SELECTION

SETTING THE CLOCK

ENGLISH

This VCS...un display on the TV screen in the English, Spanish or French language.



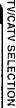
NOTES: • After a power failure or disconnection of the power, the timer settings will be lost. In this case, reset the present time.

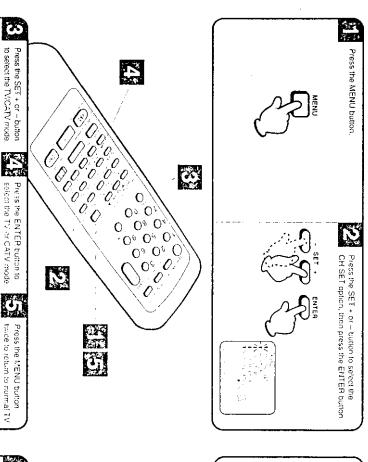
MENU button

Pro-strie CatiOEL buffer to move cursor backward for correction.

SETTING THE CHANNELS

This VCR is equipped with a channel memory feature which allows channels to skip up or down to the next channel set into memory, skipping over unwanted channels, before selecting channels, they must be programmed into the VCR's memory. In addition to normal VMF and UMF channels, this VCR can receive up to 113 Cable TV channels. To use this VCR with an antenna, set the TV/CATV menu option to the TV mode. When shipped from the factory, this menu option is in the CATV mode



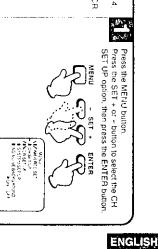


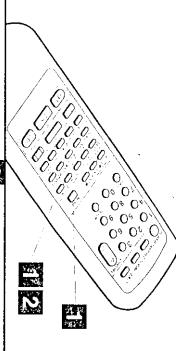
The VCR can receive a maximum of 181 channels by presetting the channels into memory.

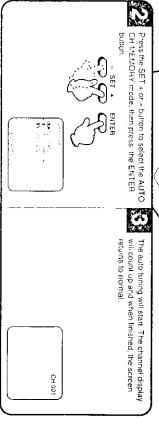
AUTOMATIC MEMORY TUNING

- Turn ON the TV and set to the video channel 3 or 4.
- Turn ON the VCR POWER button Press the TV'VCR selector button to select the VCR

When a TV is connected with an audio/video cable, input mode on the TV. turn the TV and this VCR on, and select the video





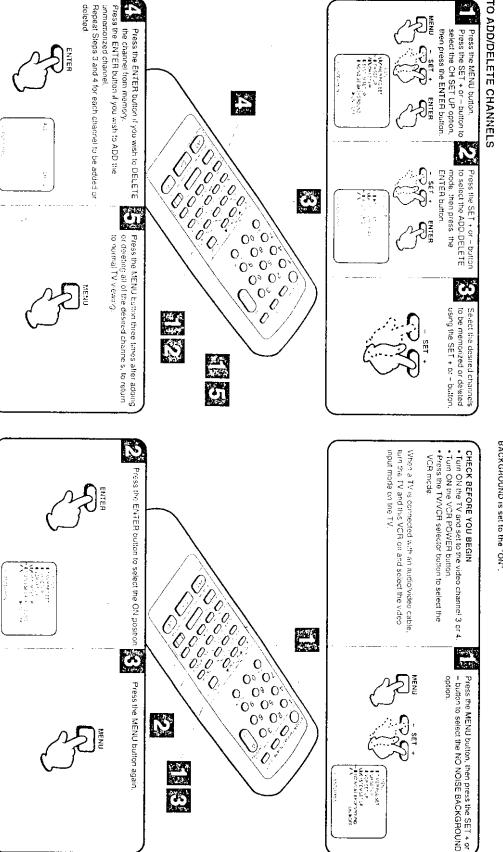


TV - VriF-UHF channels CATV - Cable TV channels

selected mode The arrow indicates the

NOISE ELIMINATION (BLUE SCREEN)

When you don't want to receive a weak signal broadcast, the Blue back screen can be obtained by selecting the NO NOISE BACKGROUND "ON". When the unit is shipped from the factory, the NO NOISE BACKGROUND is set to the "ON".

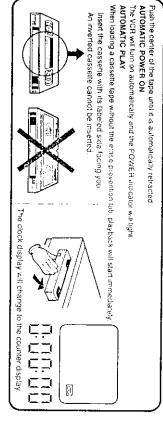


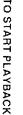
LOADING AND UNLOADING VIDEO CASSETTE TAPES

Use only video cassette tapes marked VHS.

PLAYBACK

LOADING

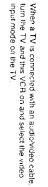




To play a prerecorded cassette tape

CHECK BEFORE YOU BEGIN

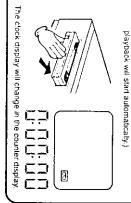
Turn ON the TV and set to the video channel 3 or 4

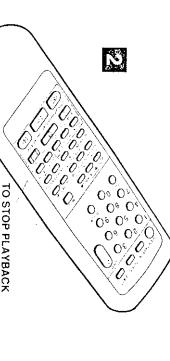




Load a prerecorded tape. (When loading a cassette tape without the erase prevention tab. playback will start automatically.)

ENGLISH







NOTES: • Aiways eject the tape when not in use

If the VCR automatically rewinds the table to the beginning (AUTO REWIND FEATURE), the table will be ejected automatically (See the HOTE on carpo 37)

AUTOMATIC EJECT

UNLOADING

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000

O,

00,0 0

To unload a cassette, pross the EJECT button on the remote control, or press the STOP EJECT button on the VCR twice. The first press will stop

The EJECT indicator will light in the display. the tape in any mode. The second press will eject the tape. The " • " will appear on the screen.

- The cassette can be ejected even if the potter is turned off

)

SPECIAL PLAYBACK

TO REWIND OR FORWARD THE TAPE RAPIDLY

Press the REW button in the STOP mode.

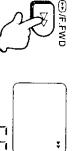
‡

The " 💶 " will appear on the screen and display about

ココ

The REW indicator will light in the display about 4 second

Press the F.FWD button in the STOP mode.



The FIFVD indicator will light in the display about 4 second The " ** " will appear on the screen and display about

TO VISUALLY SEARCH FOR DESIRED POINTS When cather the FFWD or REW button is pressed in the PLAYBACK mode, the speed search picture will appear. When pressed things for the FFWD or REW button is pressed in the PLAYBACK mode, the speed search picture will encrease speed. Speed search from degrends upon the speed used. When pressed the REW button, and then press the REW process.

To visually search backward, press the REW button once or twice in the PLAYBACK mode.

or F.FWID button



The REVEW indicator will light in the display about

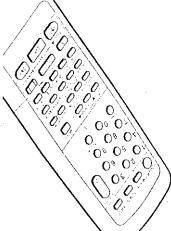
once or twice in the PLAYBACK mode To visually search forward, press the F.FWD button

ENGLISH



Press the PLAY bitton to resume normal viewing speed.; Press the PLAY button to resume normal viewing speed

The CUE indicator will light in the display about



oldinie.

button to return to the playback selected on the VCR. Press the channel selected on the TV channel the picture switches to the TV while in the playback mode. The ageo tape will continue to play while

FORWARD/REVERSE PICTURE SEARCH

If you want to see the tabe program during REW (F FWD) ender press and hold the REW (F FWD) to itten again. The backward (forward) visual search picture will be used on the screen. Receive to return to the REW (F.FVZD).

TO WATCH A STILL PICTURE

FRAME BY FRAME ADVANCE

DIGITAL TRACKING CONTROL

00000

Q

Q

0, 0, 0 0, 0, 0 0, 0, 0

101

appear during playback, adjust the tracking manually:

■ Press the Manual TRACKING ■ or ▼ button to obtain the best adjusts the tracking to obtain the best possible plature. If noise bars

possible picture. To resume automatic tracking, press the AUTO

Tracking button

When a tape is played, the Digital Auto Tracking System automatically

Press the TV MONI (Montor) button TO MONITOR A TV PROGRAM

Press the PAUSE STILL button in the PLAYBACK



normal playback. Press the PAUSE STILL button again to resume The STILL indicator will light in the display about

Press the SLOW button during STILL playback.

frame by frame viewing.

Press the PAUSE/STILL button again to resume. you press the button. Hold the button for continuous the still picture will advance by one frame each time

NOTES: • Bust results during sprind search playback can be echanged with cassette tappes recorded in the "SP" and "SLP" mod
• A lew noise bus vull accept on the profile gaming SPEED SEARCH and STILL.
• The experience of a relief of SEARCH STILL, FRAME ADVANCE or SEARCH MOTION.
• The experience of a relief of SEARCH STILL, FRAME ADVANCE or SEARCH STILL SEARCH SEARCH STILL SEARCH SEARCH STILL SEARCH STILL SEARCH STILL SEARCH STILL SEARCH STILL S no mal playback.

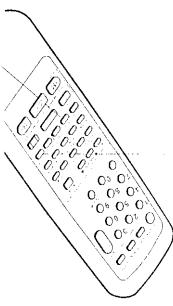
SKIP SEARCH

Press the SKIP SEARCH button in the PLAY mode. The VCR will search forward through approximately 30 seconds of the tape (e.g. unwanted commorcial time) for each press of the SKIP SEARCH button (maximum six presses) and then resume normal playback. The number of presses will appear on the display in prace of the channel number.

For example: 1 press: 30 seconds of tape 2 presses: 60 seconds of tape 3 presses: 90 seconds of tape



display. (For example . 1 press.) The CUE 1 indicator will light in the



SLOW MOTION PLAYBACK

Press the SLOW button in the PLAYBACK mode. Playback will proceed at 1/10th of the normal speed. Slow motion speed can be changed by using SLOW+ or - button.

 $+ \cdots$ Press to speed up slow motion playback up to 1.5 normal playback speed.

Press to speed down slow motion playback down to 1 30 horinal playback speed

The SLOW indicator will light in the display about 4 second: Press the PLAY button again to resume normal playback.

,-|-|-|-

If noise bars appear in the picture during slow motion, press the Manual TRACKING ▲ or ▼ button to reduce NOTE: SLOW TRACKING AND VERTICAL LOCK ADJUSTMENT

If the still picture jitters excessively, press the Manual TRACKING ▲ or ▼ button to stabilize the still picture



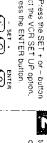
TO WATCH A TAPE REPEATEDLY

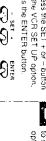
Turn ON the VCH FOWER

 Press the TV/VCR selector button to select the VCR mode.

When a TV is connected with an input mode on the TV. this VCR on, and select the video audio/video cable, turn the TV and



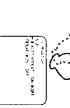


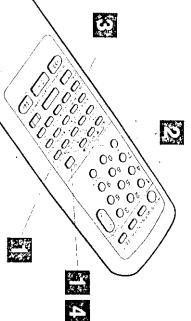


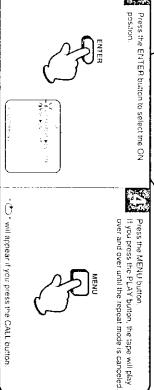


ENGLISH









NOTE: To cancel repeat mode, follow the above steps 1 and 2, then press the ENTER button to select the OFF position. Press the MENU button to return to the TV.

RECORDING AND VIEWING THE SAME TV PROGRAM

- Turn ON the VCR POWER button. Turn ON the TV and set to the video channel 3 or 4. CHECK BEFORE YOU BEGIN
- Press the TV/VCR selector button to select the

When a TV is connected with an audio video cable turn the TV and this VCR on and select the video input mode on the TV.

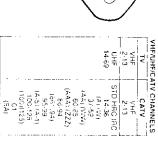


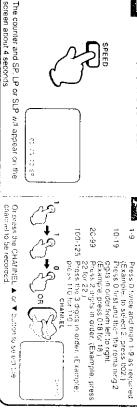


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NOTE: Since the VCR has its own TV tuner, it is not actually necessary to have the TV turned on in order to make a recerding. Turning on file TV merely allows confirmation of the proper channel settings on your VCH.

screen about 4 seconds

TO STOP RECORDING

Press the REC/OTR button. seconds. " • " will appear on the screen about 4





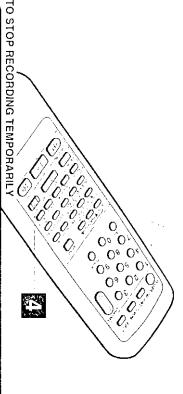


ENGLISH



The STOP indicator will light in the display about --I

4 seconds.



Pross the PAUSE STILL button to avoid recording unwanted material. Press again to continue the recording. "H" will appear on screen about 4 seconds and the PAUSE indicator will light in the display to continue pause mode.

Press the SPEED selector button to select the desired tape speed SP, LP or SLP.

Pless the direct channel selection buttons to select the channel to be recorded.

1-9 Press 0 type and then 1-9 as required to the channel to be channel to

10.19





NOTE: The pause function will be released after 5 minutes to prevent damage to the tape or the VCR. The VCR will change to the STOP mode

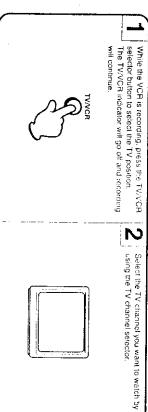
NOTE: AUTO REWIND FEATURE

It will also eject the tape and turn the VCR's power OFF. This VCR will automatically rewind the tope when the tape has ended (except during OTR and TIMER REC)

ONE-TOUCH TIMER RECORDING (OTR)

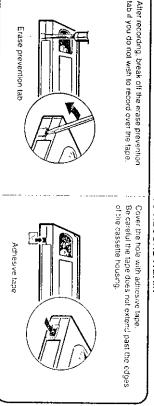
The one-touch timer recording feature provides a simple and convenient way to make a timed recording.





NOTE: Some CATV hookups do not permit viewing one charine! while recording another. See pages 18-21

TO PREVENT AN ACCIDENTAL RECORDING TO RECORD AGAIN



TAPE SPEED AND MAXIMUM RECORDING/PLAYBACK TIME

TAPE SPEED	,		VIDEO CAS	VIDEO CASSETTE TAPE		
	T-210	T-160	T-120	T-90	1-60	T-30
SP (Standard Play)	3-1/2 hours 2-2:3 hours	2-2:3 hours	2 hours	1-1.2 hours	1 hour	30 minutes
LP (Long Play)	7 hours	5-1/3 hours 4 hours	4 hours	3 hours	2 hours	1 hour
SLP (Super Long Play) 10-1/2 hours	10-1:2 hours	8 hours	6 hours	4-1/2 hours 3 hours	3 hours	1-1/2 hours

EXAMPLE: One-touch timer recording for 30 minutes

 Turn ON the TV and set to the CHECK BEFORE YOU BEGIN

 Turn on the VCR power button. video channel 3 or 4.

and select the video input mode on the TV. audio video cable, turn the TV on When a TV is connected with an



The counter and SP, LP or SLP Press the SPEED selector button to select the desired tape speed SP, LP or SLP.

ENGLISH

seconds. will appear on the screen about 4

The clack display will change in the

counter display.





OTR button will increase recording time as shown in the chart below, up to a maximum of 5 hours. The OTR and recording time will appear on screen about Press the button again to stop recording after Press the REC/OTA button to begin recording. 30 minutes. Each additional press of the REC/



NOTES: • Press the RECOOTA button to increase the time needed for recording. (See the chart below.) The channel number will appear on the screen and

display about 4 seconds

 Procs
 Case
 twice
 31 mgs
 4 limes
 5 limes
 6 icrnes
 7 times
 8 times
 9 limes

 Resonation lines
 C30
 1 (2)
 1 (3)
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 3 (5)
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NOTE: To set the limer for other programs, press the MENU buttor. Check that the TIMEH RECISET outon is

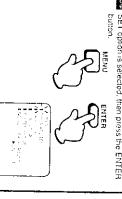
selected, then press the ENTER button. Press the SET \star or - button until the next program blinks, then press the ENTER button. Repeat steps 3 to 4 to set the second program.

SETTING THE TIMER RECORDING

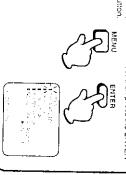
unattended recording of up to 8 programs within 1 month. Timer recording can be programmed on-screen with the remote control. The built-in timer allows automatic

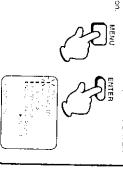
EXAMPLE: Program a timer recording for the 26th day, channel 125 (CATV), 11.00 - 11:30 PM on timer program number 1. (Tape speed: SLP)

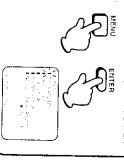
- Turn on the TV and set to the video channel 3 or 4.
- Press the TV/VCR selector button to select the VCR Load a video cassette with the erase prevention tab intact. The VCR will automatically turn on.
- turn the TV and this VCR on and select the video Check that the clock and date are correct (see page input mode on the TV. When a TV is connected with an audio/video cable

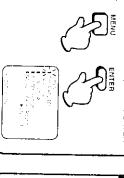


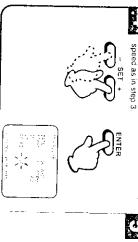
SET option is selected, then press the ENTER Press the MENU button, Check the TIMER REC

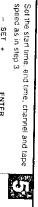












Press the ENTER button to accept them.
To enter other programmes, repeat step 2
through 4. Or, press the MENU button twice to return to the normal screen.

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00000 0, 0, 0 0, 0, 0 000 0°/0 O.F.

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Press the TIMER REC button. The power will go off, the Timer Pepora indicator will light and the VOR stands by for recording. TO CORRECT THE SETTINGS

PROGRAM, then press the ENTER button. Press the SET + or - button to select the

Ţ,

then press the ENTER button.

Press the SET + or - button to select the date,

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to correct, then re-enter the setting with the SET + or -When finished, press the ENTER button. While setting, press the ENTER button to flash the item



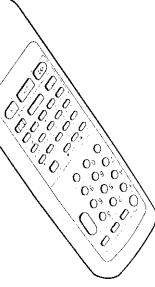
To cancel timer recoveding, press the button again and the Timer Record indicator will go out.

NOTE: • The VCR cannot be used while the Timer Record indicator is it.
• After a you ar faculty or disconnection of the power plug, all programmed recording settings must be reset upon resumption of pawer. In this case, reset the clock (see page 25) and reprogram any timer recordings

TO SET DAILY/WEEKLY TIMER The setting changes as follows: button repeatedly when the current day is displayed. When setting the date in step 3, press the SET -WKL-WED minus one day One month later The current day (Friday) -> SUN-SAT (Sunday to Saturday) WKL-THU (Weekly Thursday) MON-FRI (Deciday to Finday) MON-SAT (Ittoricaly to Saturdity TO CONFIRM THE SETTINGS Press the MENU button twice to return to the normal SET option in the MENU. Press the SET + or - button to select the TIMER REC Then press the ENTER button to display the timer



After setting, press the ENTER button (Weekly Wednesday)



TO CANCEL A PROGRAM IF THE PROGRAM OVERLAPS ANOTHER



NOTE: Do not overlap programs as portrons of the Primary 3 Program 2 Piggram 1 recording time as shown in the diagram recording time has priority over the next conflicting programs will be fost. The first 3 9 8

Chung (hand) • Prind di

NOTES: • The everyday/every week recritding can be made continuously until the recording is canceled on the tape

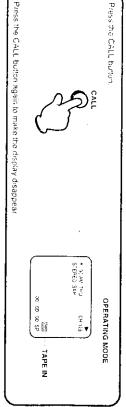
During timer recording the automatic revinding mechanism does not function.

WHILE WATCHING TV



ENGLISH

WHILE OPERATING A TAPE



TO SET THE COUNTER TO '00:00:00'

Press the COUNT RESET button. The counter will appear on the screen



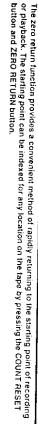
- NOTES: If you rewind the tape from "00:00:00", a minus sign ("-") will be displayed in front of the time.
 When you load a tape, the counter will change to "00:00:00".
 The counter does not furtion on nonrecorded (blank) sections of the tape. When you rewind, fast forward
- or play tapes through blank sections, the counter stops

USING ZERO RETURN

button and ZERO RETURN button.

VIDEO INDEX SEARCH SYSTEM (INDEX)

ENGLISH

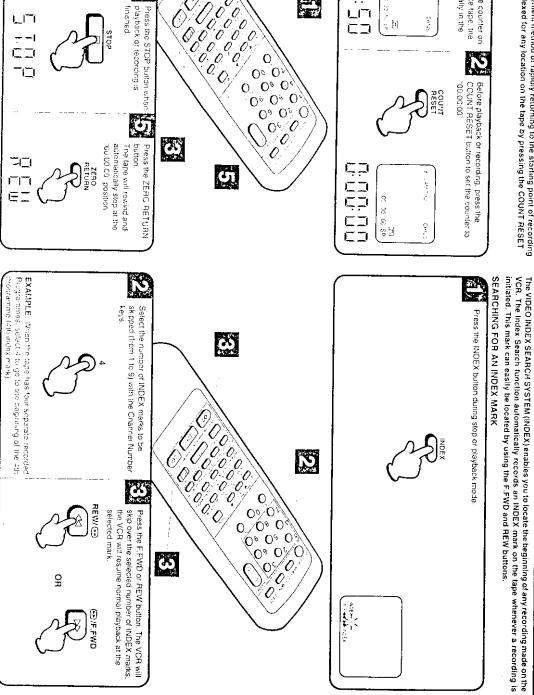


display.)

clock will change to the counter automatically in the the screen. (When loading a cassette tape, the Press the CALL button to display the counter on

Dist. We Colle

9



NOTES: • When you recorded an INDEX mark at the very hogening of the tape, the mark may not be found.

During thDEX search, the tape may stud and degrin to play at a slightly different location.
 HDEX may not function properly with old or wich out ruled tapes.

--I []

Begin playback or recording.

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STEREO RECORDING AND PLAYBACK

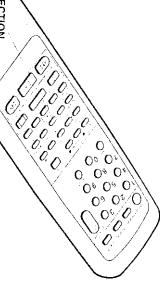
RECORDING STEREO BROADCASTS

The VHS H∈Fi audio system permits high fide/ity recording of MTS STEREO TV broadcasts

procedure is the same as for normal recordings. viewed or recorded in stereo (refer to pages 36 and 37 for recording procedures). The Hi-Fi STEREO recording When a MTS STEREO broadcast is received, the STEREO will appear on the screen and the program can be



NOTE: When using a CATV system, stereo TV programs may be transmitted over a midno cable channel in this case the STEREO will not appear and the sound wit be in mono.



OUTPUT SELECTION

button has no effect when viewing a MONO videolapte or TV program. Each time when you press the button, OUTPUT SELECTION display appears on the screen for several seconds. Refer to the chair below. this button can be set to the MONO position if the stereo breadcast or videotape audio is of poor quality. The "R" this button to select that the audio be heard through both speakers. Normally set to the HEFI STEREO position and "L" positions allow the audio from the Right or Left Hi-Fi charref to be heard ever both TV speakers. This When viewing an MTS STEREO TV program, or playing a prerecorded VHS H. F. STEREO videotape, press



CUTPUT SELECTION STEREO L CH R CH SOUND HEARD ON BOTH LEFT CHANNEL AUDIO STEHEO RIGHT CHANNEL AUDIO

NOTES: • When playing back a tape that is not recorded in Hi-Fi stereo mode, the audio will automatically be monaural.
• When listening to a VHS Hi-Fi video take or I/TS binactoast through the VHF UHF jack (Acido Video cord.) not connected), the sound will be marwind

SEPARATE AUDIO PROGRAM (SAP)

Your VCR is fitted with an SAP broadcast system which enables you to switch to a SEPARATE AUDIO PROGRAM when viewing a selected channel.

This function applies only when the program is broadcast in multi languages through the SAP broadcast

CHECK BEFORE YOU BEGIN

- Turn ON the VCR POWER Turn ON the TV and set to the video channet 3 or 4.
- Press the TV-VCR selector button to select the VCR mode.

this VCR on, and select the video audio/video cable, turn the TV and When a TV is connected with an

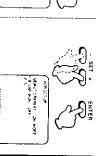




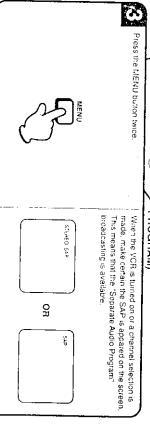






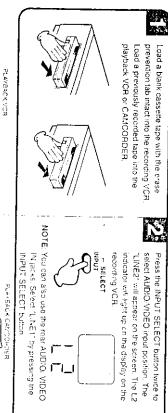


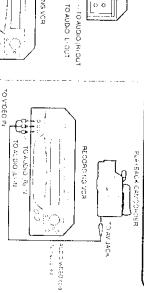




DUPLICATING A VIDEO TAPE

If you connect the VCR to another VCR or camcorder, you can duplicate a previously recorded tape. Make all connections before turning on the power.



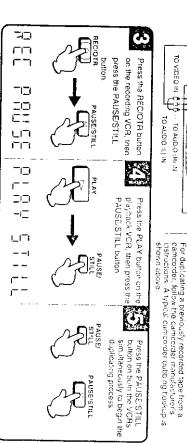


NUDIO VIDEO cord Mat supplied

RECORDING VCR

LI 19: O'ONY OL

TO VIDEO OUT -



NOTES: ● It is recommended that you set the SPEED to the SP mode on the recording VOR for best results

 Unauthorized recording of copyrighted letevision programs, firms, video tapes and other materials may intringe on the rights of copyright owners and violate copyright taws.

VIDEO HEAD CLEANING

VIDEO HEAD CLOGGING

snowy). If this is the case, have the video cassette recorder checked by qualified service personnel event that the heads become dirty enough to be diogged, no picture will be played back. This can easily be determined if, during playback of a known good tape, there is good sound, but no picture (picture is extremely The video heads are the means by which the VCR reads pictures from the tape during playback. In the unlikely

ENGLISH



Good Picture



Snowy Picture

AUTO HEAD CLEANING

when playing poor quality of damaged topes. If the heads require cleaning, use a high quality head cleaning system or have them cleaned professionally. still unclear although the picture on program is normal. This failure signifies that the head is getting dirty and occurs prevent dirt from accumulating on the heads. However, manual head cleaning is needed if the picture on playback is The AUTO HEAD CLEANING system cleans the video heads automatically when a cassette is inserted or ejected to

DO NOT ATTEMPT TO CLEAN THE VIDEO HEADS OR SERVICE THE UNIT BY REMOVING THE TOP COVER.

- Video heads may eventually wear out and should be replaced when they fail to produce clear pictures
- To help prevent video head clogging, use only good quality VHS tapes. Discard worn out tapes

This video glossary is provided to help you become familiar with video terms, equipment and accessories you may encounter or require in the future.

A/B SWITCH - A device that allows you to select from two video sources for output to your VCR or TV. (Not included)

ANTENNA ADAPTER or ANTENNA MATCHING UNIT - See matching transformer

ABSWITCH PA

BANDS - Groups of TV channels which fall within certain frequencies

All the channels your TV/VCR receives can be tuned on one of three bands: V: - VHF channels 2-6 and cacle A-5-A-3

VHF channels 7~13 and cable A-2~A-1, A-1, J-W and AA-FFF

U - UHF channels 14~69 and cable GGG-125

CATV - Cable TV. a method of transmitting TV signals through cable. This usually involves a monthly service charge. CATV is usually transmitted by one of three systems: HRC, IRC or STD.

COAXIAL CABLE (75 ohm) - A special type of round wire used for antenna or cable systems, or for connecting a VCR to a TV.

COAXIAL CABLE WITH THREADED F CONVECTOR

COMBINER (or COUPLER) - A device used to combine two or more incoming antenna wires or cables

signals. Often used for TV sets that cannot receive cable channels, or when pay stations are desired by the customer CONVERTER BOX/DESCRAMBLER - A device supplied by cable companies for receiving or descrambling cable

A COTVERTER DESCRAMBLER

and high quality still picture DIGITAL - Special circuitry using microchips to store images enables a VCR to perform viewing effects like strobe

DIGITAL AUTO TRACKING - Automatically adjusts the playback tracking for the best possible picture

DUBBING - A method of recording from one video cassette tape to another by connecting a VCR with another VCR.

FS TUNER - A quartz-locked, frequency synthesized tuning system that electronically locks in stations for optimal reception. Eliminates the need for presetting channels into the TV/VCR.

coaxial cable (75 ohm) using either a 'push-on' or screw-on' F scnnector F-TYPE CONNECTOR JACK - A threaded input jack designed to accept

F COUNECTOR JACK ()

FULL LOADING TAPE TRANSPORT - Keeps wideo cassette tape fully loaded in VCR for rapid access between

H.Q. - High Quality picture. Special circuitry designed to improve VHS picture quality. Includes white clip expansion

REAL TIME COUNTER - A real time counter that displays the elapsed time during recording or playback in hours, minutes and seconds. The counter does not function on homecorded (blank) sections of tape.

MATCHING TRANSFORMER - An adapter used to convent 75 ohm cebile to 300 ohm tenn lead wire, or 300 ohn to 75

MTS - Multichanne: TV Sound. A storeo broadcast sound system used for transmitting stereo sound signats on TV, usually broadcast with another channel (SAP).

PRESET - A method of programming channels and channel numbers into the memory of the VCR

PUSH ON CONNECTOR - Mode to It over an Ficonnector jack without threading. Many matching transformers use

ENGLISH

channel (either 3 or 4) for viewing on a TV. RF CONVERTER - A device built into VCRs and converter/descramblers which converts all signals into the video

SAP-SEPARATE AUDIO PROGRAM - A third audio channel under the MTS system frequently used for bilingual

SPECIAL EFFECTS - Picture features available on some VCHs such as still frame, and picture search

SPLITTER - A device used to dwde an incoming artenna wire or coaxial cable into two or more wires or cables (not





STROBE PLAYBACK - A special digital playback leature in which stiff frames are displayed in rapid succession for

TWIN LEAD WIRE (300 ohm) - A two conductor flat wire used for connecting an antenna to a TV set or VCR.





transmit UHF channels on other bands.) UHF - Ultra High Frequency. The band of frequencies used for UHF channels 14-69 (Cable companies sometimes

VCP - Video cassette player. A device which can play video cassettes but cannot record

VCR - Video cassette recorder. A device that can record and playback video cassettes

VHF - Very High Frequency. The band of frequencies used to transmit VHF channels 2-13. Also used by cable

VHS-C - A popular video cassette format used in many video camcorders. VHS-C cassettes can be loaded into a video cassette adapter which makes the tape fully compatible with the standard VHS format

VHS - Video Home System. The video tape formal most commonly used in the U.S.

VHS HI-FI - A superior method of recording stereo audio signats on video tape, resulting in very high quality audio

VIDEO CHANNEL - The TV broadcast channel (usually 3 or 4) used to output signats from a VCR or cable box.

VIDEO INPUTS/OUTPUTS - RCA Type lacks in back of the VCR used for dubbing or providing audio of video signals from other sources









1



BEFORE REQUESTING SERVICE Make sure by first checking the following points.

SYMPTOMS	CAUSE	POSSIBLE SOLUTIONS	PAGE
POWER			ľ
No power.	The AC power cord is not con- nected.	Connect the AC power cord to the AC outlet.	9
Although the power is on, it	Cassette is not inserted.	Insert a video cassette.	3
does not operate.			چ
TV BROADCAST RECEPTION			
	Antenna connection is not correct.	Connect it correctly.	1,
	Antenna cable is disconnected.	Reconnect the antenna cable.	7.
o v program mano			
selected by the VCH does not appear on the screen.	The video channel is not in the correct position.	Set at to CH 3 or 4.	23
	The TV is not set to the video	Set the TV channel selector to the 3	į
	channel 3 or 4.	or 4 position	F2
	The TV/VCR selector is set at TV	Press the TV:VCR selector button.	
	mode. (The VCR indicator is not	(The VCR indicator is on the display).	23
	on the display).		
	INPUT SELECT is set to the LINE	Press the INPUT SELECT button to	
	mode.	select the TV mode.	\$
A TV program selected by	The TV.CATV menu option setting	Set the TV/CATV menu option to	
the VCR does not appear in color.		select TV or CATV mcde.	8
RECORDING			
TV recording does not work.	The erase prevention tab of the video cassette is broken off.	Place a piece of viny! tape over the gap.	ಚ್ಛ
	INPUT SELECT is set to the LINE mode.	Press the INPUT SELECT button to select the TV mode	48
	The time is not set correctly.	Reset the present time.	8
Timer recording does not work.	The recording start and time is not set correctly.	Set the start and time.	4
	The TIMER REC button has not been pressed. (The Timer Record symbol (2) is not it on the display)	Press the TIMER REC button. (The Timer Record symbol [3] is lit on the display).	<u>4</u>

SYMPTOMS	CAUSE	POSSIBLE SOLUTIONS	PAGE
PLAYBACK			
No picture on screen when	The TV is not set to the video	Set to the video channel 3 or 4 or	
playing back a recorded	channel 3 or 4.	adjust the fine tuning button on	23
tape.		your TV set.	
	Tracking adjustment beyond	Adjust tracking manually using	
	range of automatic tracking	the TRACKING ▲ and ▼ buttons on	32
Noise bars on screen.	circuit.	remote control.	
	Video heads are dirty.	Have the video heads cleaned.	49
	The lape is worn or damaged	Transport	
REMOTE CONTROL			
	It is not aimed at the remote	Aim it at the remote sensor,	;
	sensor.		ä
	Distance too far or too much light	Operate within 15 feet (5 meters)	;
Remote control does not	in the room.	reduce the light in the room.	Ę.
work.	There is an obstacle in the path	Clear the path of the beam.	;
	of the beam.		2
	The batteries are weak.	Replace the batteries.	3
	The +, - polanly of the bat-	insert correctly.	5
	tenes are not inserted correctly.		ū
TV programs cannot be	The TV/VCR function is in the	Set to TV, or lum off the VCR	
seen using the TV selector	VCH mode.	power button.	ı

ENGLISH



CAUTION: TO REDUCE THE RISK OF ELECTRIC FIED SERVICE PERSONNEL INSIDE, REFER SERVICING TO QUALI-BACK). NO USER-SERVICEABLE PARTS SHOCK, DO NOT PEMOVE COVER (OR



product's enclosure that may be of sufficient magnifude to constitute a risk of The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of electric shock to persons uniasulated dangerous voltage within the

presence of important operating and maintenance (servicing) instructions in the triangle is intended to alert the user to the The exclamation point within an equilatera Iderature accompanying the appliance

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE

WARNING: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection cause harmful interlerence to radio communications radiate radio frequency energy and, if not installed and used in accordance with the instructions, may against harmtul interference in a residential installation. This equipment generates, uses, and can

more of the following measures: turning the equipment off and on, the user is encouraged to try correcting the interference by one or ment does cause harmful interference to radio or television reception, which can be determined by However, there is no guarantee that interference will not occur in a particular installation. If this equip-

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an out of on a crout different from that to which the receiver is connected
- Consult the dealer or an experienced radio TV technician for help.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

IMPORTANT SAFEGUARDS

READ INSTRUCTIONS

All the safety and operating instructions should be read before the unit is operated

RETAIN INSTRUCTIONS

The safety and operating instructions should be retained for future reference

HEED WARNINGS

All warnings on the unit and in the operating instructions should be adhered to

FOLLOW INSTRUCTIONS All operating and use instructions should be followed

Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners Use a damp cloth for cleaning

ATTACHMENTS

Do not use attachments not recommended by the unit's manufacturer as they may cause hazards

WATER AND MOISTURE

basement, or near a swimming pool. Do not use this unit near water. For example, near a bathlub, washbowl, kitchen sink, or laundry tub, in a wet PORTABLE CART WARNING

(symbol provided by RETAC)

ACCESSORIES

tripod, bracket, or table recommended by the manufacturer. fall, causing serious injury, and serious damage to the unit. Use only with a cart, stand Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may

BA. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn

VENTILATION

tions such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have should never be placed near or over a radiator or heat source. This unit should not be placed in built-in installa openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit operation of the unit and to protect it from overheating. These openings must not be blocked or covered. The Stots and openings in the cabinet and in the back or bottom are provided for ventilation and to ensure reliable

0 POWER SOURCES

intended to operate from battery power, or other sources, refer to the operating instructions sure of the type of power supply to your home, consult your appliance dealer or local power company. For units This unit should be operated only from the type of power source indicated on the rating plate. If you are not

11. GROUNDING OR POLARIZATION

electrician to replace your obsolete outlet. 3-wire grounding-typė plug. a plug having a third (grounding) pin, this plug will only fit into a grounding-type the plug fully into the outfet, try reversing the plug. If the plug should still fail to fit, contact your electrician to power outlet. This too, is a safety feature. If you are unable to insert the plug into the outlet, contact your replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug If your unit is equipped with a other). This plug will fit into the power outlet only one way. This is a safety feature, If you are unable to insert This unit is equipped with a polarized afternating-current line plug (a plug having one blade wider than the

Do not defeat the safety purpose of the grounding-type plug



IMPORTANT SAFEGUARDS

(CONTINUED)

12. POWER-CORD PROTECTION

where they exit from the appliance. upon or against them, paying particular attention to cords at plugs, convenience receptables, and the point Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed

<u>,</u> **POWER LINES**

due to lightning and power line surges. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit To protect your unit from a lightning storm, or when it is left unattended and unused for long periods of time power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system,

5 OVERLOADING

Do not overload wall outlets and extension cords, as this can result in a risk of fire or electric shock

extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be

16. OBJECT AND LIQUID ENTRY

parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit. Do not push objects through any openings in this unit as they may touch dangerous voltage points or short out

17. **OUTDOOR ANTENNA GROUNDING**

of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode ing structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supportso as to provide some protection against voltage surges and built-up static charges. Section 810 of the National If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded

.

Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

DAMAGE REQUIRING SERVICE

9

Unplug this unit from the wall outlet and refer servicing to qualified service personnet under the following

When the power-supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into the unit.

- If the unit has been exposed to rain or water.
- d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls unit to its normal operation. may result in damage and will often require extensive work by a qualified technician to restore the
- e. If the unit has been dropped or the cabinet has been damaged
- When the unit exhibits a distinct change in performance, this indicates a need for service.

20. REPLACEMENT PARTS

Unauthorized substitutions may result in fire, electric shock or other hazards When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original ports.

21. SAFETY CHECK

determine that the unit is in proper operating condition Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to

22. WALL OR CEILING MOUNTING

The product should be mounted to a walt or ceiling only as recommended by the manufacture

ENGLISH

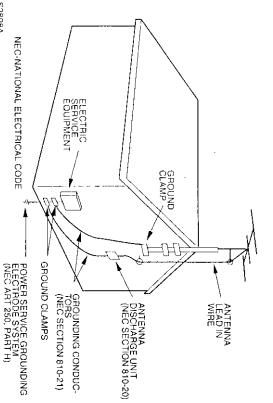
HEAT

products (including amplifiers) that produce heat. The product should be situated away from heat sources such as radiators, heat registers, stoves, or other

24. NOTE TO CATY SYSTEM INSTALLER

grounding system of the building, as close to the point of cable entry as practical. guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides

EXAMPLE OF ANTENNA GROUNDING AS PER THE NATIONAL ELECTRICAL CODE



S2898A