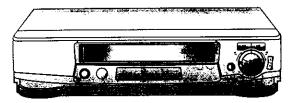
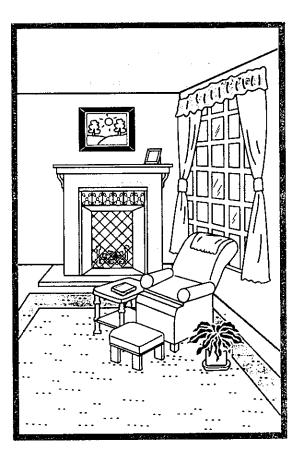
HITACHI

Auto Set Up System – simply plug in all cables and press the POWER button (see page 17).





VIDEO CASSETTE RECORDER

VT-FX6407AS Owner's manual





READ ME FIRST

HOOKUPS

FIRST TIME SETUP

PLAYBACK DPERATIONS

RECORDING OPERATIONS

ADVANCED OPERATIONS

Using these quality features:

- The VCR Plus+* programming system allows you to program the VCR for timer recording by simply entering a PlusCode* number.
 - * VCR Plus+ and PlusCode are trademarks of Gemstar Development Corporation.
 - The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.
- Auto Set Up system automatically tune in broadcast channels.
- S-VHS Quasi Playback allows you to playback the tape that is recorded by S-VHS type.
- Super index allows you to quickly search for a program you want to view or the point from which you want to start recording on tape.
- Super rewind and fast forward.
- Multi-channel TV sound (MTS).
- 8-program/1 month preset recording.
- Auto tracking system automatically adjusts the tracking so the picture is optimized.
- Frequency synthesized tuner provides easy, preset tuning of up to 68 broadcast TV channels and 125 cable channels.
- VHS Hi-Fidelity sound in playback.
- On-screen programming guide.
- With display, VCR Plus+ can be programmed to record without turning power on.
- Easy Cursor Operation.
- Illuminated remote control for use with your VCR.



As an ENERGY STAR® Partner, HITACHI Home Electronics (America), Inc. has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

HITACHI HOME ELECTRONICS (AMERICA), INC.

1855 Dornoch Court, San Diego, CA 92173, Tel. 619-661-3441

HITACHI (HSC) CANADA INC.

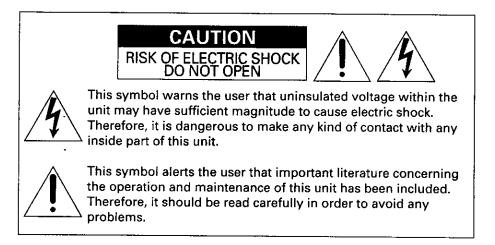
6740 Campobello Road, Mississauga, Ontario L5N 2L8 CANADA Tel. 905-821-4545



POWER SUPPLY: AC 120V, 60Hz ONLY.

The POWER button turns the VCR on and off, leaving the clock/timer unaffected. If the unit is to be left unattended for a long period, it is recommended that the unit be completely switched off and unplugged.

Illustrated below is the label on the back of your unit.



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

WARNING: Many television programs and films are copyrighted. In certain circumstances, copyright law may apply to private in-home videotaping of copyrighted materials.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO BAIN OR MOISTURE.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF POWER PLUG TO WIDE SLOT OF AC OUTLET AND FULLY INSERT.

Caution to the user: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

IMPORTANT SAFEGUARDS

In addition to the careful attention devoted to quality standards in the manufacture of your video product, safety is a major factor in the design of every instrument. But, safety is your responsibility too.

This page lists important information that will help to assure your enjoyment and proper use of a Video Cassette Recorder and accessory equipment. Please read it carefully before operating your video product and keep it in a handy place for future reference.

INSTALLATION

1 Read and Follow Instructions – All the safety and operating instructions should be read before the video product is operated. Follow-all operating and use instructions.



2 **Retain Instructions** – The safety and operating instructions should be retained for future reference.

3 Heed Warnings – Comply with all warnings on the video product and in the operating instructions.

4 Polarized Plug – This video product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. To prevent electric shock do not use this

polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted without blade exposure. If you need an extension, use a polarized cord.



5 Power Sources – This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your video dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.

6 Overloading – Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock. Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords, damaged or cracked wire insulation and broken plugs. They may result in a shock or fire hazard. Periodically examine the cord and have it replaced by your service technician if appearance indicates damage or deteriorated insulation.



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

8 Ventilation – Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the video product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface. This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the video product manufacturer's instructions have been followed.



9 Attachments – Do not use attachments unless recommended by the video product manufacturer as they may cause hazards.

Caution: Maintain electrical safety. Powerline operated equipment or accessories connected to this unit should bear the UL listing mark or CSA certification mark on the accessory itself and should not have been modified so as to defeat the safety features. This will help avoid any potential hazard from electric shock or fire. If in doubt, contact qualified service personnel.

10 Water and Moisture – Do not use this video product near water. For example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

11 Accessories – Do not place this video product on an unstable cart, stand, tripod, bracket, or table.

The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

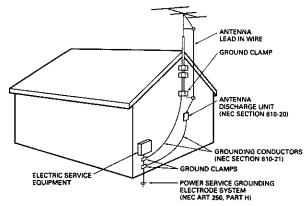
11A An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



READ ME FIRS

12 Outdoor Antenna Grounding – If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See example below.

EXAMPLE OF ANTENNA GROUNDING



NEC - NATIONAL ELECTRICAL CODE

13 Power Lines – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching or approaching such power lines or circuits as contact with them might be fatal. Installing an outdoor antenna can be hazardous and should be left to a professional antenna installer.

USE

14 Cleaning – Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

15 Object and Liquid Entry – Never push objects of any kind into this video product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.



16 Lightning – For added protection for this video product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable-system. This will prevent damage to the video product due to lightning and power-line surges.



SERVICE

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

18 Conditions Requiring Service – Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions.

- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the video product.
- c. If the video product has been exposed to rain or water.
- d. If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
- e. If the video product has been dropped or the cabinet has been damaged.
- When the video product exhibits a distinct change in performance — this indicates a need for service.

19 Replacement Parts – When replacement parts are required, have the service technician verify that the replacements he uses have the same safety characteristics as the original parts. Use of replacements specified by the video product manufacturer can prevent fire, electric shock or other hazards.

20 Safety Check – Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks recommended by the manufacturer to determine that the video product is in safe operating condition.



READ ME FIRST

	For Your Safety	2
	Important Safeguards	3
ŝ	Customer Controls	6
Ì	Remote Operation	8
	Cassette Tapes	9

HOOKUPS

	FIRST TIME SETUP
Z,	Advanced Cable Hookup — With Cable Box and Splitter G16
Æ)	Advanced Cable Hookup — With Cable Box F 15
,E)	Basic Cable Hookup — With Cable Box E 14
C	Advanced Cable Hookup — AV Hookup D
िजन	Basic Cable Hookup C 12
¥,	Advanced Antenna Hookup AV Hookup B 11
and the	Basic Antenna Hookup 🖪 10

	Auto Set Up	17
B	Setting the Clock	18
	Pre-tuning the VCR Tuner	20

PLAYBACK OPERATIONS

È	Playback	23
	Special Playback Effects	25
. Ô	Shuttle Control	27
	Using the "SUPER INDEX" feature	28
	Viewing the On-Screen Display	
•	INDEX with the Time Counter	32

RECORDING OPERATIONS

معرب	Recording a Program
4	Recording a Program — Recording Tips 35
Ę	Instant Recording Timer 37
<u>.</u>	Delayed Recording 38
Ø	Using the VCR Plus+ System for Recording 41
	Easy Delayed Recording with the VCR Plus+ System 42
<u> </u>	Program Review 47

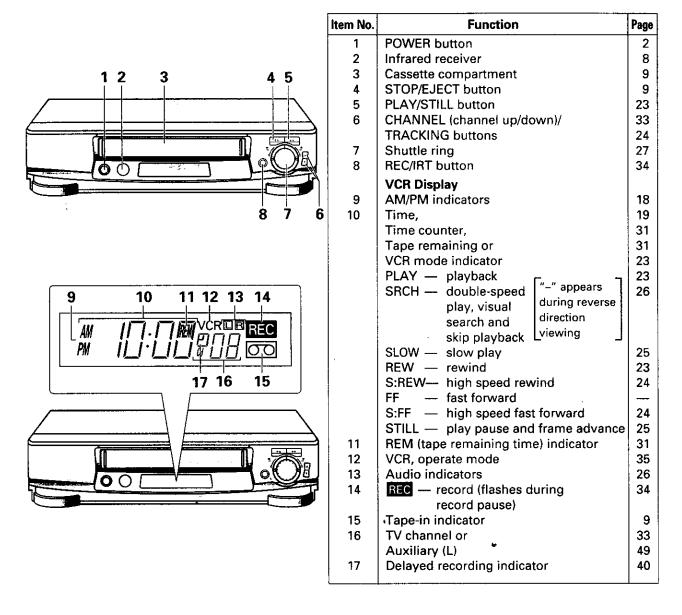
ADVANCED OPERATIONS

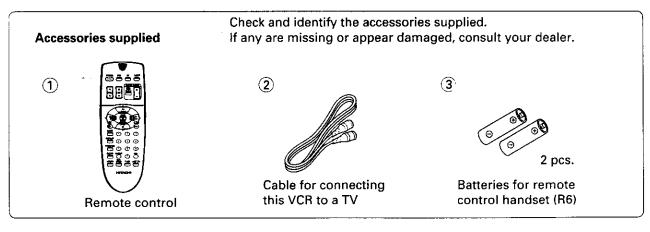
, I	Using the VCR Remote to Control Your TV 48
ØP	Integrating Your Stereo System with Your VCR 49
5	Copying Tapes from a Camcorder 50
¢ B	Copying from One VCR to Another VCR (Dubbing)51
8	Problem Guide/ 🐯 Maintenance 52
	Guide Indications in VCR Display and OSD screen
٢	Technical Specifications 54
	Spanish Quick User's Guide

READ ME FIRST



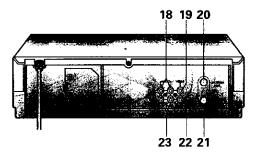
VCR Customer Controls





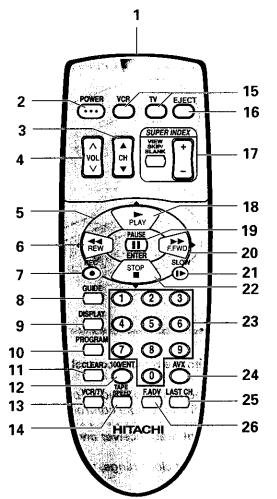


VCR Customer Controls

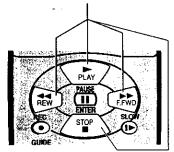


ltem No.	Function	Page
18	AUDIO IN L, R jacks	49
19	VIDEO IN jack	51
20	IN FROM ANT. — signal input	10
21	OUT TO TV — signal out to TV	10
22	VIDEO OUT jack	11
23	AUDIO OUT L, R jacks	11

Remote Control Customer Controls



Illumination buttons



18	AUDIO IN L, R jacks	49
19	VIDEO IN jack	51
20	IN FROM ANT. — signal input	10
21	OUT TO TV — signal out to TV	10
22	VIDEO OUT jack	11
23	AUDIO OUT L, R jacks	11

Function	Page
Transmission window	8
POWER button	20
CH (channel up/down) button	33
VOL button — increase or decrease	48
the audio volume	
Cursor buttons	_
REW button — fast rewind or search	23/26
REC — record button	34
GUIDE — to recall OSD menu	20
DISPLAY — to recall on-screen display	31
PROGRAM (programming) button	37
CLEAR — clears time counter	32
100/ENT button	33
VCR/TV mode select button	10
TAPE SPEED button — select the	33
recording speed SP or EP.	
VCR, TV device buttons let	48
you set the remote to control one of the	
two devices	
EJECT button	9
SUPER INDEX buttons — to use the	28
SUPER INDEX function	
PLAY button — playback,	23
PAUSE/ENTER buttons	25
F.FWD button — fast forward or search	24/26
SLOW button — for slow motion picture	25
STOP button — stops play/record	23
function	
Number buttons	21
AVX button — select LINE	49
LAST CH button – Switches to the TV	48
channel you watched previously during	
the current viewing session.	
F.ADV button	25
	Transmission window POWER button CH (channel up/down) button VOL button — increase or decrease the audio volume Cursor buttons REW button — fast rewind or search REC — record button GUIDE — to recall OSD menu DISPLAY — to recall on-screen display PROGRAM (programming) button CLEAR — clears time counter 100/ENT button VCR/TV mode select button TAPE SPEED button — select the recording speed SP or EP. VCR, TV — device buttons let you set the remote to control one of the two devices EJECT button SUPER INDEX buttons — to use the SUPER INDEX function PLAY button — playback, PAUSE/ENTER buttons F.FWD button — for slow motion picture STOP button — select LINE LAST CH button – Switches to the TV channel you watched previously during the current viewing session.

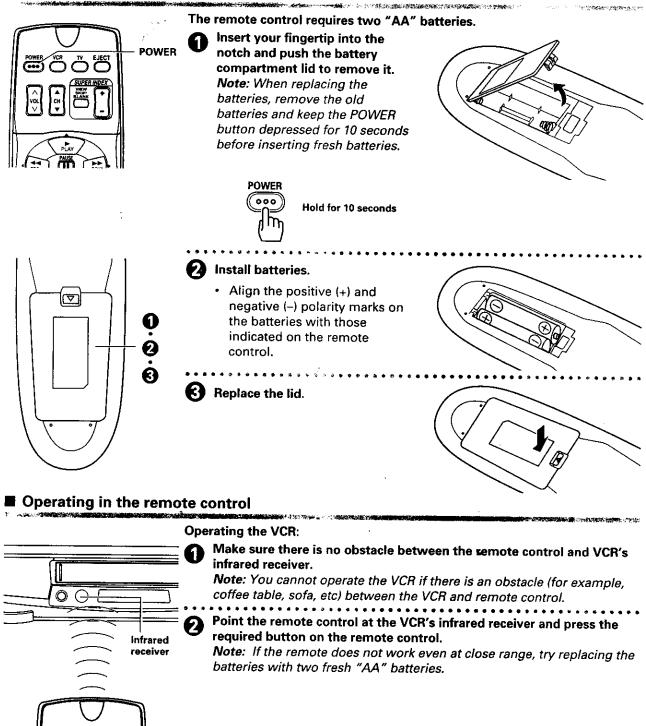
When you press any of illumination buttons, the illumination will turn on.

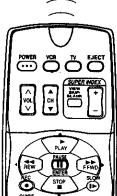
The illumination goes off 5 seconds later

automatically, if you do not press the buttons.



Install batteries in the remote control







🖬 Types

Only use video cassettes with the

VHS mark in this VCR.

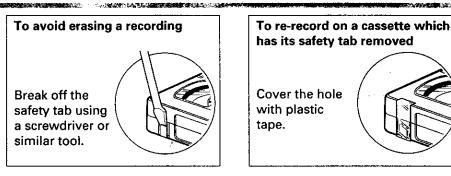


The table shows the recording time of different cassettes.

- To get the best quality picture, record at standard recording speed (SP).
- This VCR does not record at the LP speed, but it can play cassettes that were recorded at the LP speed.

-	Recording time		
Types	SP	EP	
T-120	120 min.	360 min.	
T-160	160 min.	480 min.	
T-180	180 min.	540 min.	
T-210	210 min.	630 min.	

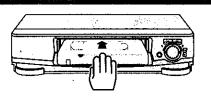
Safety tabs prevent erasure



The VCR automatically enters the playback mode when a cassette without its safety tab is inserted. The VCR won't record on a tape without a safety tab and the cassette will be ejected if the REC or REC/IRT button is pressed. Be sure to check the safety tab before inserting a cassette.

Insertion

Push the video cassette gently into the slot on the front of the VCR.

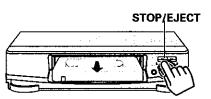


Removal

Press the STOP/EJECT button on the VCR or EJECT button on the remote control.

The cassette will come partially out of the compartment so you can pull it out.

- The cassette can be ejected with the power on or off.

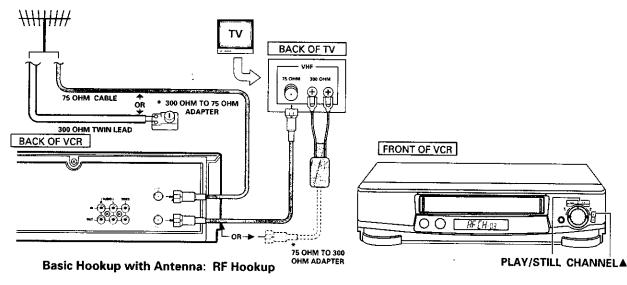




- YOU CAN
- WATCH AVAILABLE TV CHANNELS
- RECORD AND WATCH THE SAME CHANNEL
- RECORD ONE CHANNEL AND WATCH ANOTHER

Caution

Do not	connect	to the
power	supply	outlet
before	connect	ing all
cables (see page	e 17).



* PURCHASED SEPARATELY

TABLE A

	CHANNEL SELECTION		VCR indicator	
FUNCTION	тν	VCR	(Press the VCR/TV mode select button to turn the V&R indicator on or off.)	
Select and Watch Channels using TV	Select Channel to Watch		OFF (TV mode)	
Select and Watch Channels using VCR	3 or 4	Select Channel to Watch	ON (VCR mode)	
Record and Watch the Same Channel	3 or 4	Select Channel to Record	ON (VCR mode)	
Record One Channel Watch Another	Select Channel to Watch	Select Channel to Record	OFF (TV mode)	
Watch Playback of a Tape	3 or 4	· · · · · · · · · · · · · · · · · · ·	ON (VCR mode)	

Switch the RF Channel

When the VCR is on, its video signal can come into your TV on either channel 3 or channel 4. You need to select the appropriate channel.

 When the power is turned on, press the POWER button to turn it off. Press the PLAY/STILL button on front of the VCR. Pressing the CHANNEL ▲ button alternates between RFCH-03 (channel 3) and RFCH-04 (channel 4) in the VCR's display.

Display the channel which is not used by a commercial channel in your area.

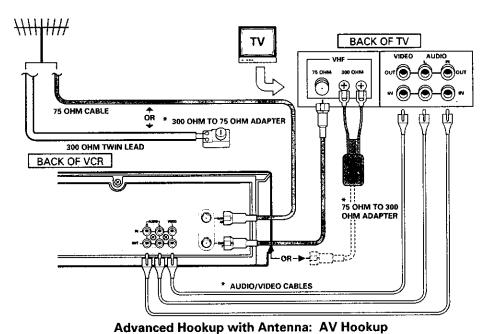


YOU CAN.....

- WATCH AVAILABLE TV CHANNELS
- RECORD AND WATCH THE SAME CHANNEL
- RECORD ONE CHANNEL AND WATCH ANOTHER

Caution

Do	not	connect	to	the	
pov	ver	supply	ou	itlet	
bef	ore	connecti	ng	all	
cables (see page 17).					



HOOKUPS

*	PURCHASED	SEPARATELY
---	-----------	------------

	CHAN	VCR indicator		
FUNCTION	τν	VCR	select button to turn the VCR indicator on or off.)	
Select and Watch Channels using TV	Select Channel to Watch		OFF (TV mode)	
Select and Watch Channels using VCR	AUX or VIDEO	Select Channel to Watch		
Record and Watch the Same Channel	AUX or VIDEO	Select Channel to Record		
Record One Channel Watch Another	Select Channel to Watch	Select Channel to Record	OFF (TV mode)	
Watch Playback of a Tape	AUX or VIDEO			

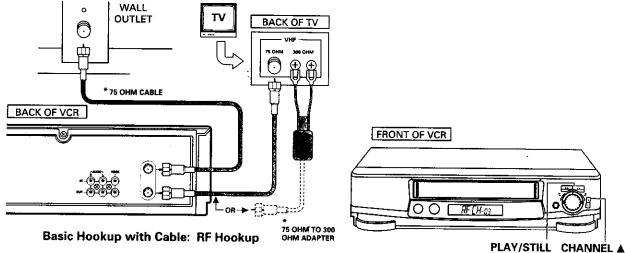


YOU CAN.....

- WATCH AVAILABLE CABLE CHANNELS
- RECORD AND WATCH THE SAME CHANNEL
- RECORD ONE CHANNEL AND WATCH ANOTHER

Caution

Do not	connect	to the				
power	supply	outlet				
before	connecti	ng all				
cables (see page 17).						



* PURCHASED SEPARATELY

TABLE C

	CHAN			
FUNCTION	τν	VCR	(Press the VCR/TV mode select button to turn the VCR indicator on or off.)	
Select and Watch Cable Channels using TV	Select Channel to Watch		OFF (TV mode)	
Select and Watch Cable Channels using VCR	3 or 4	Select Channel to Watch	ON (VCR mode)	
Record and Watch the Same Channel	3 or 4	Select Channel to Record	ON (VCR mode)	
Record One Channel Watch Another	Select Channel to Watch	Select Channel to Record	OFF (TV mode)	
Watch Playback of a Tape	3 or 4	n Million (n. 1977) 1976 - Dina Station, and Alexandron (n. 1977)	ON (VCR mode)	

Switch the RF Channel

When the VCR is on, its video signal can come into your TV on either channel 3 or channel 4. You need to select the appropriate channel.

• When the power is turned on, press the POWER button to turn it off. Press the PLAY/STILL button on front of the VCR. Pressing the CHANNEL ▲ button alternates between RFCH-03 (channel 3) and RFCH-04 (channel 4) in the VCR's display.

Display the channel which is not used by a commercial channel in your area.

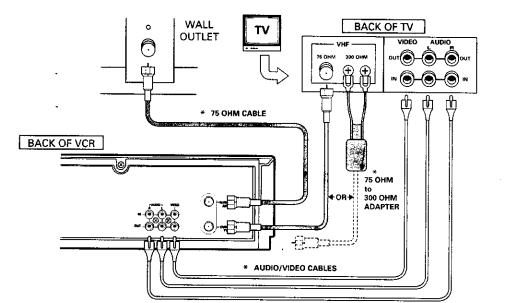


YOU CAN.....

- WATCH AVAILABLE CABLE CHANNELS
- RECORD AND WATCH THE SAME CHANNEL
- RECORD ONE CHANNEL AND WATCH ANOTHER

Caution

Do	not	connect	to	the		
pov	ver	supply	ou	itlet		
bef	ore	connecti	ng	all		
cables (see page 17).						



HOOKUPS

Advanced Hookup with Cable: AV Hookup

* PURCHASED SEPARATELY

TABLE D

	CHAN	VCR indicator (Press the VCR/TV mode select button to turn the VCR indicator on or off.)	
FUNCTION	TV VCR		
Select and Watch Cable Channels using TV	Select Channel to Watch		OFF (TV mode)
Select and Watch Cable Channels using VCR	AUX or VIDEO	Select Channel to Watch	
Record and Watch the Same Channel	AUX or VIDEO	Select Channel to Record	· · · · · · · · · · · · · · · · · · ·
Record One Channel Watch Another	Select Channel to Watch	Select Channel to Record	OFF (TV mode)
Watch Playback of a Tape	AUX or VIDEO		



YOU CAN

- WATCH AVAILABLE CABLE CHANNELS
- RECORD AND WATCH THE SAME CHANNEL
- YOU CAN'T.....
- RECORD ONE CHANNEL WHILE YOU WATCH ANOTHER

Caution

Do not connect to the power supply outlet before connecting all cables (see page 17).

............

ALL CHANNEL SELECTIONS MUST BE MADE AT THE CABLE BOX. BE SURE TO CONSULT YOUR CABLE BOX MANUAL FOR THE CABLE BOX OUTPUT CHANNEL.

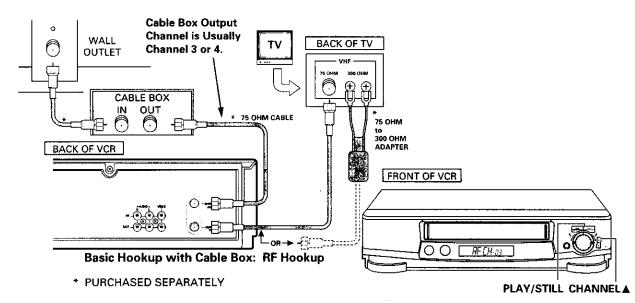


TABLE E

FUNCTION	Cł	VCR indicator (Press the VCR/TV		
FONCTION	тν	VCR	CABLE BOX	mode select button to turn the VCR indicator on or off.)
Watch Cable Channels on TV	Select Cable Box Output Channel		Select Channel to Watch	OFF (TV mode)
Select and Watch Cable Channels using VCR	3 or 4	Select Cable Box Output Channel	Select Channel to Watch	ON (VCR mode)
Record and Watch the Same Channel	3 or 4	Select Cable Box Output Channel	Select Channel to Watch	ON (VCR mode)
Record One Channel Watch Another				
Watch Playback of a Tape	3 or 4			ON (VCR mode)

Switch the RF Channel

When the VCR is on, its video signal can come into your TV on either channel 3 or channel 4. You need to select the appropriate channel.

 When the power is turned on, press the POWER button to turn it off. Press the PLAY/STILL button on front of the VCR. Pressing the CHANNEL ▲ button alternates between RFCH-03 (channel 3) and RFCH-04 (channel 4) in the VCR's display.

Display the channel which is not used by a commercial channel in your area.

14



YOU CAN

- WATCH AVAILABLE CABLE CHANNELS
- RECORD AND WATCH THE SAME CHANNEL

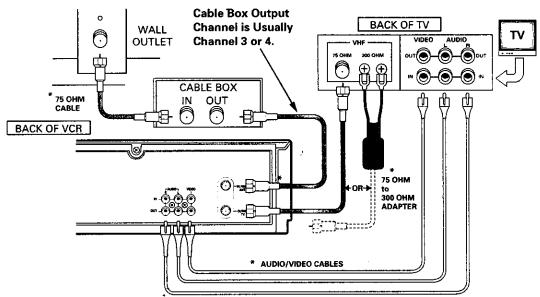
YOU CAN'T

RECORD ONE CHANNEL AND WATCH ANOTHER

Caution

Do not	connect	to the			
power	supply	outlet			
before	connecti	ing all			
cables (see page 17).					

ALL CHANNEL SELECTIONS MUST BE MADE AT THE CABLE BOX. BE SURE TO CONSULT YOUR CABLE BOX MANUAL FOR THE CABLE BOX OUTPUT CHANNEL.



Advance Hookup with Cable Box: AV Hookup

* PURCHASED SEPARATELY

TABLE F

FUNCTION	CHANNEL SELECTION			VCR indicator (Press the VCR/TV	
FONCTION	TV	VCR	CABLE BOX	mode select button to turn the VCR indicator on or off.)	
Watch Cable Channels on TV	Select Cable Box Output Channel		Select Channel to Watch	OFF (TV mode)	
Select and Watch Cable Channels using VCR	AUX or VIDEO	Select Cable Box Output Channel	Select Channel to Watch	ατά αλλα το	
Record and Watch the Same Channel	AUX or VIDEO	Select Cable Box Output Channel	Select Channel to Watch	n (star) n Criefys	
Record One Channel Watch Another					
Watch Playback of a Tape	AUX or VIDEO				



YOU CAN.....

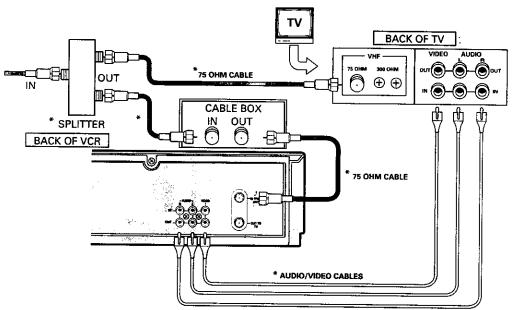
- · WATCH AVAILABLE CABLE CHANNELS
- RECORD AND WATCH THE SAME CHANNEL
- RECORD ONE CHANNEL AND WATCH ANOTHER

Do not connect to the power supply outlet

Caution

before connecting all cables (see page 17).

TO RECORD, ALL CHANNEL SELECTIONS MUST BE MADE AT THE CABLE BOX. BE SURE TO CONSULT YOUR CABLE BOX MANUAL FOR THE CABLE BOX OUTPUT CHANNEL.



Advanced Hookup with Cable Box and Splitter: AV and RF Hookup

.....

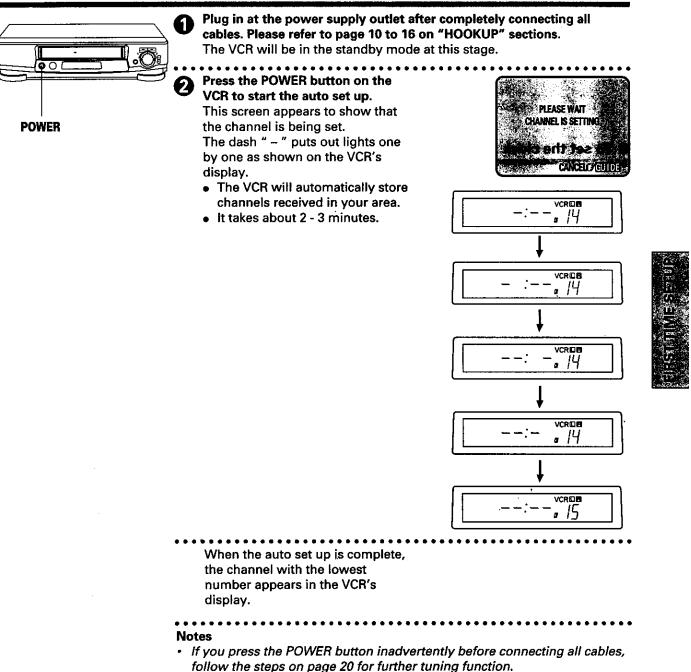
* PURCHASED SEPARATELY

		TABLE G	1	
FUNCTION	Cl	VCR indicator (Press the VCR/TV		
FUNCTION	TV	VCR	CABLE BOX	mode select button to turn the VCR indicator on or off.)
Watch Cable Channels on TV	Select Channel to Watch			
Select and Watch Cable Channels using VCR	AUX or VIDEO	Select Cable Box Output Channel	Select Channel to Watch	en anna caetta a caetta da
Record and Watch the Same Channel	AUX or VIDEO	Select Cable Box Output Channel	Select Channel to Watch	2. O constructions backed Objective State
Record One Channel Watch Another	Select Channel to Watch	Select Cable Box Output Channel	Select Channel to Record	10000000000000000000000000000000000000
Watch Playback of a Tape	AUX or VIDEO			The Constant

TARIEG



Setting the channel automatically



 If you press the POWER button during auto set up mode, the VCR automatically switches to the STOP mode.



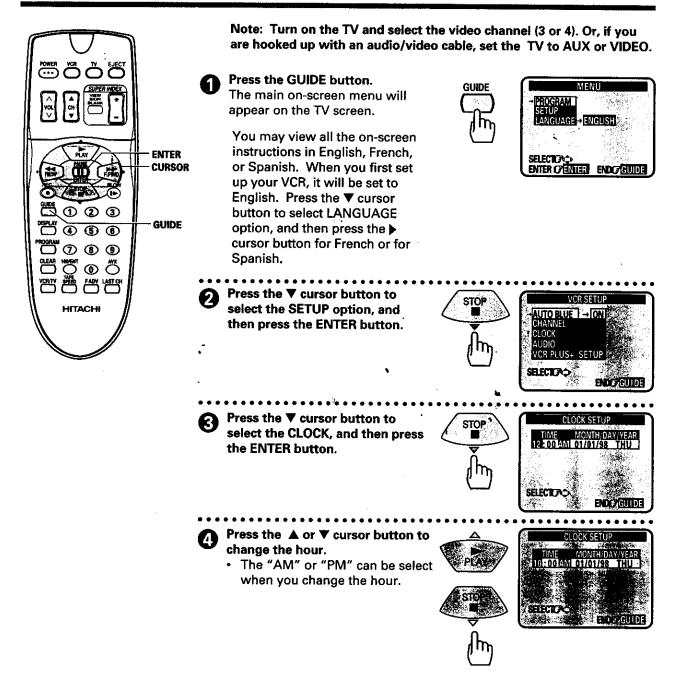
Note: An antenna or cable must be connected to the VCR before you begin this operation.

📕 Tips

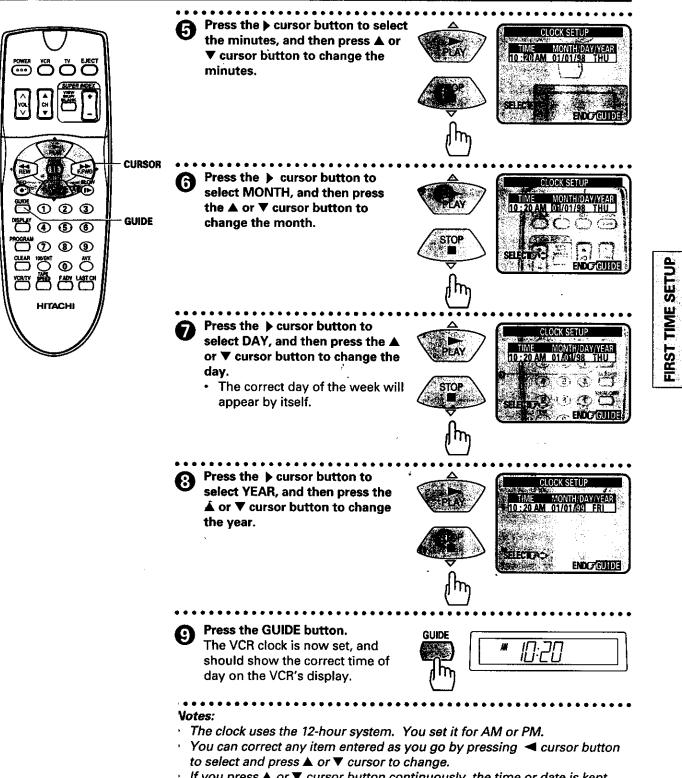
You'll need to set the clock when first hooking up your VCR, and any time the power goes out more than 30 seconds. When you first plug in the VCR or after a power outage, the clock display will read "--:-".

 	·····
	-
•	

To set the clock



.

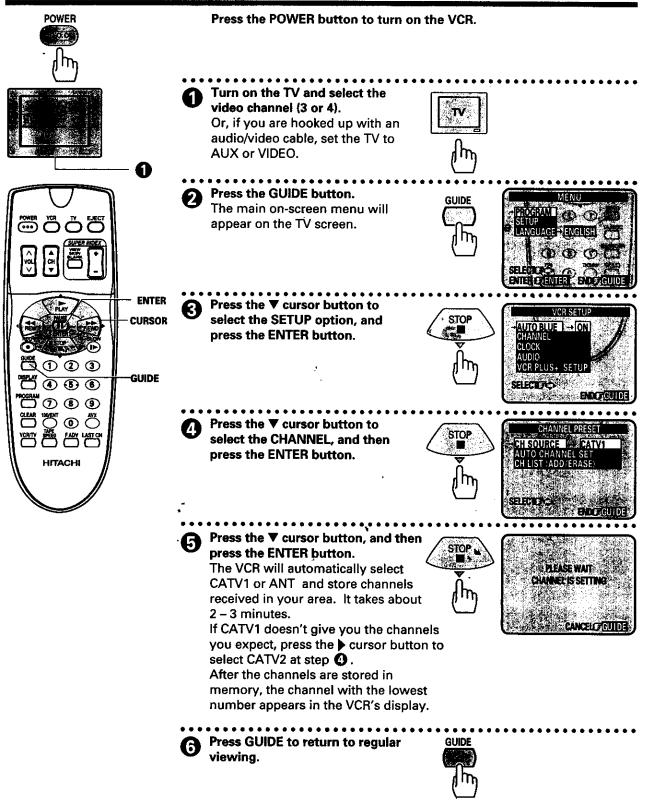


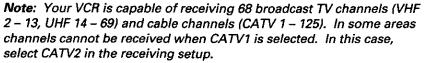
If you press ▲ or ▼ cursor button continuously, the time or date is kept changing.

DDE TUNING THE VCP TUNED

Note: An antenna or cable must be connected to the VCR before you begin this operation.

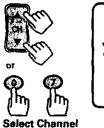
Presetting the received channels without using a cable box (Hookups A, B, C or D)





When automatic presetting of channels are finished

Press the CH (channel) button (or numbered buttons) to check the channels you can receive. Note: If no channels have been set or a clear picture does not appear, check the antenna or cable connection.





📕 To add or erase channels

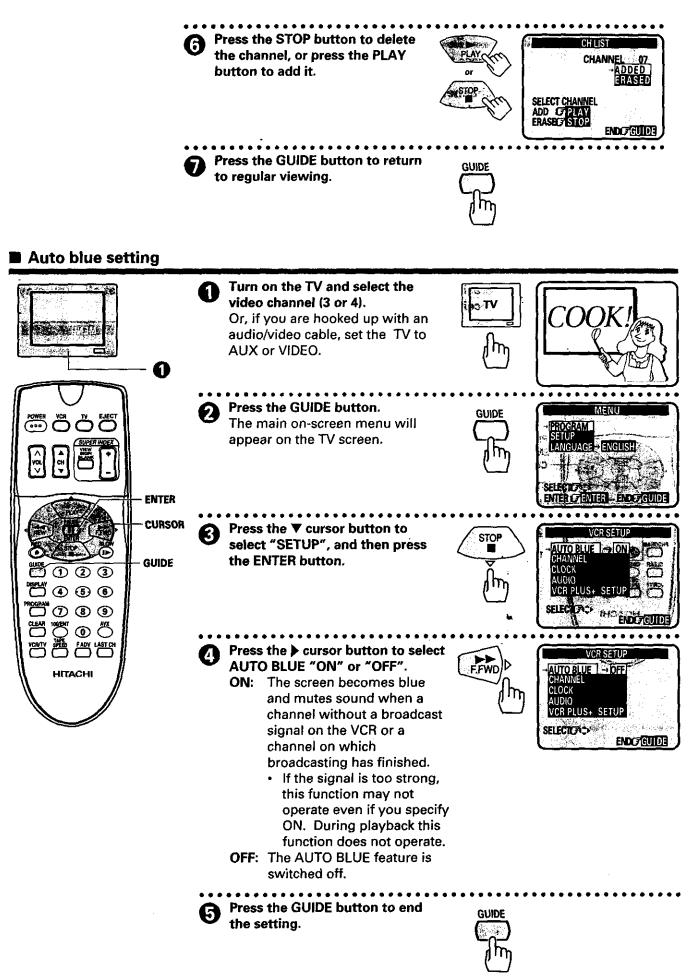
The auto channel set procedure may memorize channels that are blank, have snowy pictures, or interference. You may skip these channels by erasing them. Very weak stations might not be memorized at all. You may receive these stations by adding them. FIRST TIME SETUP Press the GUIDE button. MENU 1 GUIDE The main on-screen menu will RAM $\zeta \gg$ appear on the TV screen. LANGUAGE - ENGLISH т. С. SELECTUR ENTER OF ENTER ENDOFGUIDE PLAY -ENTER Press the ▼ cursor button to VCR SETUP CURSOR STOP select the SETUP option, and 2 (III) STOP then press the ENTER button. BO B стоск GUIDE 1 2 3 ١m SETU CR PLUS+ **@** 🖲 🕲 FaGU | DE • • ඁඁඁමඁඁ Press the ▼ cursor button to 3 CHANNEL PRESET select the CHANNEL, and then CH SOURCE A CATVI press the ENTER button. CHANNEL HITACHI CH LIST (ADD/ERASE) SELEC HIS ENDER GUID Press the V cursor button to **CH LIST** 4 select CH LIST <ADD/ERASE>, CHANNER and then press the ENTER button. ADDED Erased SELECT CHAP Γ**η** ADD (7 FRASECT STOP GUIDE SIGUIDE × 563 Use the number buttons to select Example **CHLIST** 6 the number of the channel you CHANNEL 07 @ @ want to add or erase. ERASED m SELECT CHANNE

GUIDE

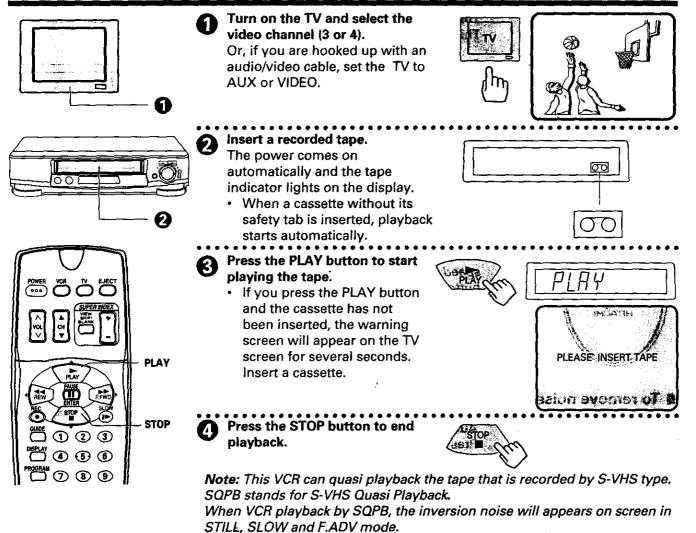
ADD O

ERASE 7 STOP

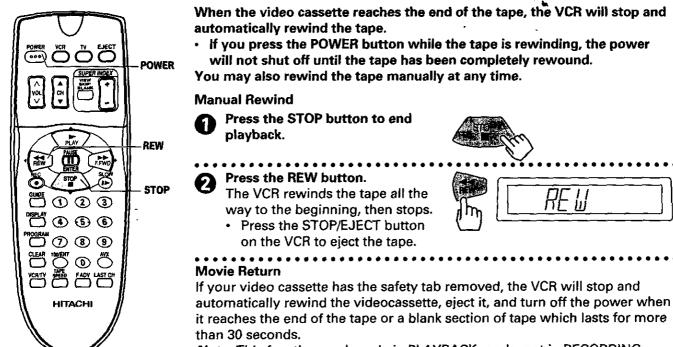
Selects channel "7



To playback a recorded tape

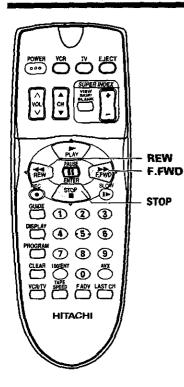


Rewinding the tape



Note: This function works only in PLAYBACK mode, not in RECORDING mode.

Rewinding or fast forwarding a tape at high speed



This function rewinds or fast-forwards T-120 tape for about 83 seconds. This time period will vary for different types of tape.

Press the REW or F.FWD button, then press it again.

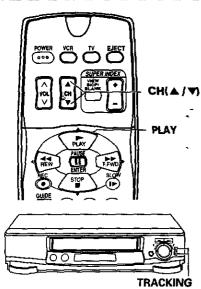
To stop the tape, press the STOP button.

Note: During super rewind/fastforward, there will be an interval of 5 seconds between the time the STOP button is pressed and the tape actually stops. This is designed to protect the tape. To stop the tape earlier, press the REW or F.FWD button to restore the normal rewind/fast-forward speed, then press the STOP button.





To remove noise from the picture



Auto Tracking

Pressing the PLAY button starts the auto tracking feature, which automatically adjusts playback to eliminate static lines or picture noise that may appear on the screen.

_ Manual Tracking

Scratched tapes or poorly recorded tapes may require additional picture adjustment. You can do this with the remote control.

Press the CH (\blacktriangle or \bigtriangledown) button on the remote control or TRACKING button on the VCR when viewing a

cassette.

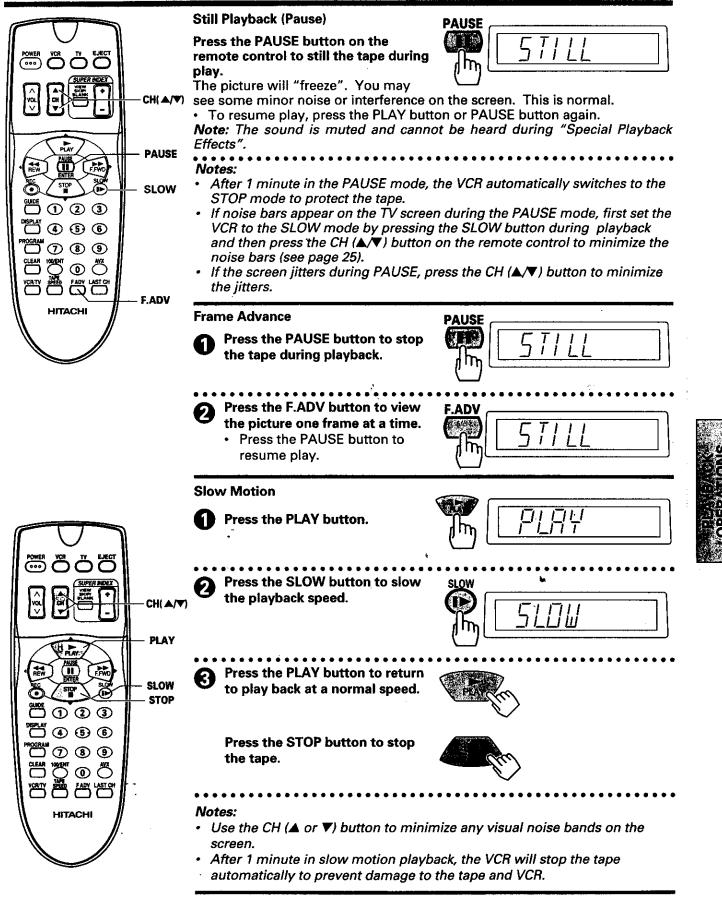
or

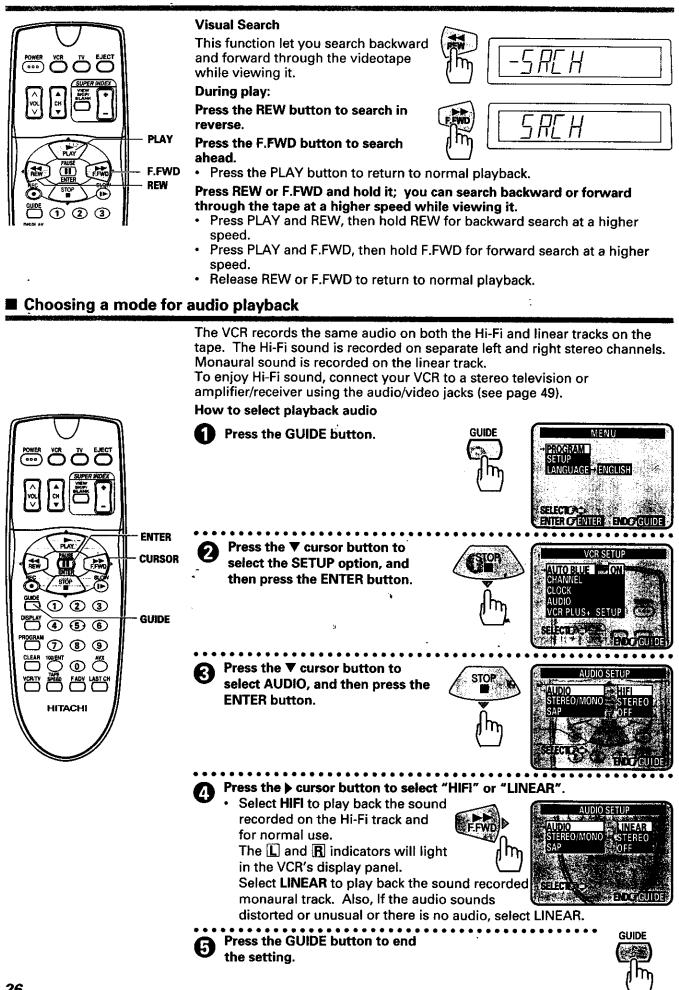


Press either the \blacktriangle or \blacktriangledown button until picture is clear.

Note: To reactivate auto tracking, simply eject the tape and reinsert it into the VCR.

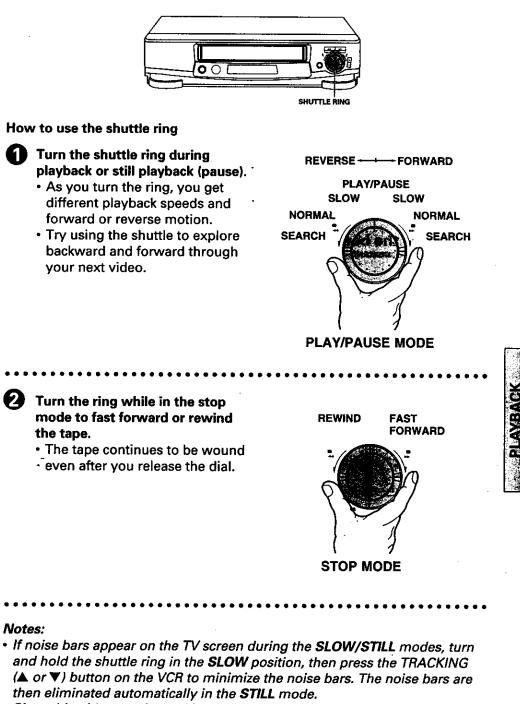
Variable speed playback





I Using the shuttle ring

The shuttle feature lets you control all the playback functions — PLAY, PAUSE, SLOW MOTION, and SEARCH — using one convenient ring.



 Since thin videotape is used in T-180 and longer cassettes, do not repeatedly perform the following operations with these tapes.
 —Fast forward, rewind, slow play
 —Insertion and ejection of tapes

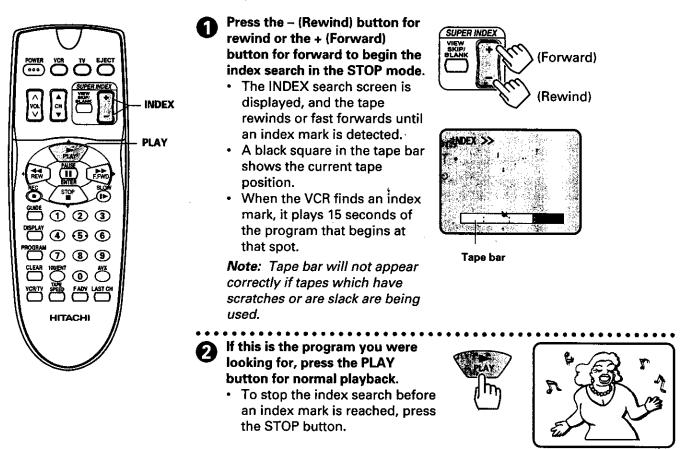
What is SUPER INDEX?

SUPER INDEX allows you to quickly search for a program or a scene you want to view or the point from which you want to start recording on tape, with the following four functions:

- INDEX SEARCH: You can locate the beginning of a recorded program, using the INDEX feature*.
 - * Each time you press the REC or REC/IRT button to start recording, the VCR will record an INDEX mark at the start of recording. The INDEX feature uses this signal recorded on tape (VISS signal) to locate the beginning of a program you want to view.
- BLANK SEARCH: You can locate the beginning of a blank (non-recorded) section on tape.
- · EASY VIEW: This switches fast forward or rewind to visual search so that
- you can search for a scene you want to view while scanning the pictures.
- SKIP PLAY: You can skip unnecessary scenes during play.

Locating the beginning of a recorded program (INDEX SEARCH)

Note: This function only works with recordings that have been set up with indexing.



Note: If there are no index marks on the tape, the VCR will just rewind to the beginning or fast forward to the end.

Locating the beginning of a blank section (BLANK SEARCH)

This function searches for a non-recorded section of remaining tape, or unused tape, and stops the tape when it locates such a section.

Notes:

VIEW/SKIP/ BLANK

нітасні

123

- BLANK SEARCH cannot be operated with a cassette without a safety tab.
- BLANK SEARCH may not operate when a blank section lasts no more than five minutes.
- BLANK SEARCH will not be engaged in the following sections since they are not recognized as blanks:
 - Sections with noise
 - ---Sections where only sound has been recorded
 - -Sections where previous recordings have been erased

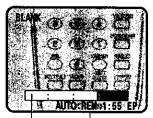
The BLANK SEARCH screen will appear and the tape will fast forward automatically.

- The blank which is the nearest the current tape position is searched for.
- The blank square in the tape bar shows the current tape position.
- The tape remaining time appears on the screen and VCR display during BLANK SEARCH.
- When a blank is detected, the tape will automatically rewind to the beginning of the blank.

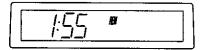
Notes:

- When a cassette without a safety tab is inserted, "TAb" will flash in the VCR display for several seconds and the cassette will be ejected automatically.
- Tape bar will not appear correctly if tapes which have scratches or are slack are being used.
- When the beginning of blank is located, the STOP screen will appear for five seconds and the tape will stop.
 - The tape remaining time appears in the VCR display.



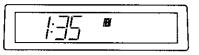


Tape bar Tape Remaining



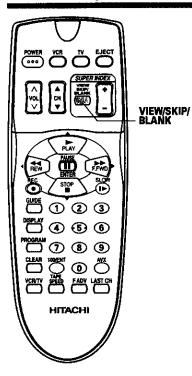






Note: Make sure that the tape is at the beginning of blank before you start recording or editing.

Switching rewind or fast forward to visual search (EASY VIEW)



Hold down the () (VIEW/SKIP/BLANK) button during rewind (or fast forward), and the mode will switch to visual search, so that you can search for a scene you want to view while scanning pictures.

Hold down the C (VIEW/SKIP/

(IP/ BLANK) button during rewind:

⁷ The tape will be visually scanned in the reverse direction while the button is held.

Hold down the (VIEW/SKIP/

BLANK) button during fast forward: The tape will be visually scanned in the forward direction while the button is held.

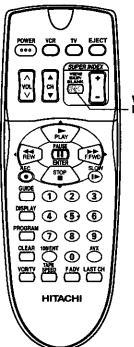
 When the button is released, the tape will rewind or fast forward again.







Skipping unnecessary scenes (SKIP PLAYBACK)



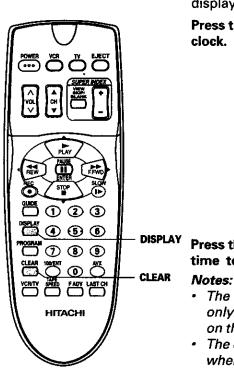
While playing back your tape you can skip forward by pressing the () (VIEW/SKIP/BLANK) button. The tape will search ahead for about a minute and then resume playing.

VIEW/SKIP/ BLANK



S RE Н

Switching between the clock, time counter and time of remaining tape



Press DISPLAY while the on-screen display is displayed. The on-screen display switches in the order below together with the VCR's display.

DISPLAY

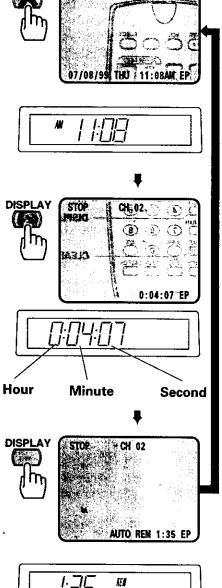
STOP

CH 02

Press the DISPLAY button to see the clock.

Press the DISPLAY button a second DISPL time to see just the time counter.

- The linear time counter operates only if there is something recorded on the tape.
- The counter changes to 0:00:00 when the tape is ejected.;



Press the DISPLAY button a third time DISPLAY button a third time DISPLAY button a third time DISPLAY button a third time

Note: Immediately after the tape is inserted, "-:--" will appear. 2 minutes after playback or recording is started, the tape remaining time is displayed.

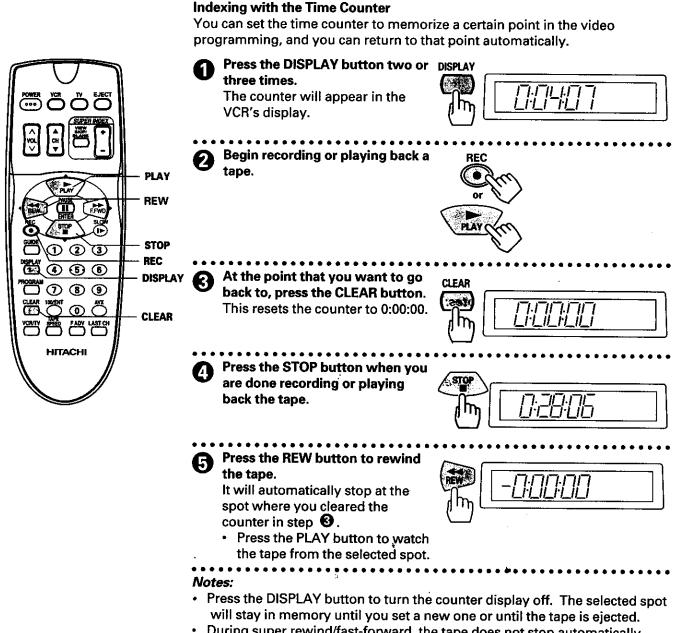
Press the CLEAR button repeatedly to switch the type of the tape used. The correct remaining time will appear. AUTO: T-120 or shorter tape

- T-160: T-140 or T-160 tape
- T-180: T-180 tape
- T-210: T-210 tape

Notes:

- The tape remaining time is not displayed correctly for a tape without any recordings or tapes other than T-30/60/90/120/140/160/180/210.
- The remaining time may not be displayed correctly during fast forwarding or rewinding.

To find specific sections on a tape



 During super rewind/fast-forward, the tape does not stop automatically even if the counter reads "0:00:00".

Before you record

Note: The cassette safety tab must be in place in order to record.

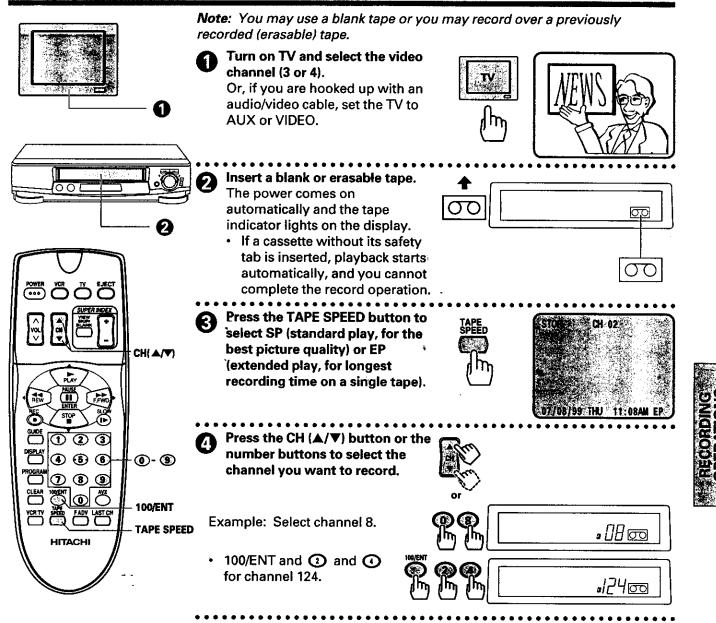


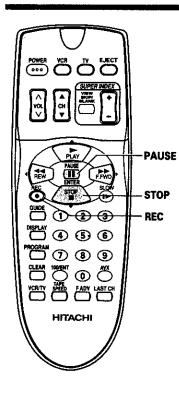
Basic recording steps

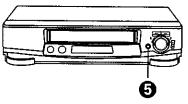
The VCR must be hooked up properly for recording. See the Simple Hookups at the beginning of this manual.

Copyright infringement warning

Most television programs and films are copyrighted. This means that someone has legal rights governing the reproduction and distribution of this material. In certain circumstances, copyright law may apply to private in-home taping of copyrighted materials. In most cases, it is okay to record for personal use, as long as you do not sell the material. You must act responsibly in this area – check into the matter if you are unsure.





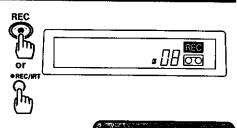


Press the REC button on the remote control or the REC/IRT button on the VCR.

Recording will start and the **REC** indicator on the VCR will appear. **Notes:**

- Recording will not start unless the cassette has the safety tab in place. When a cassette without a safety tab is inserted, "TAb" will flash in the VCR display or the warning screen will appear on the TV screen for several seconds and the cassette will be ejected automatically.
- Press the PAUSE button to set the VCR to the recording pause mode. Press the button again to re-start recording.
- If you stay in PAUSE mode for more than 5 minutes, the VCR automatically switches to STOP mode to protect the tape.
- If you press the REC button and the cassette has not been inserted, the warning screen will appear on the TV screen for several seconds. Insert a cassette.

• Press the STOP button to finish recording.

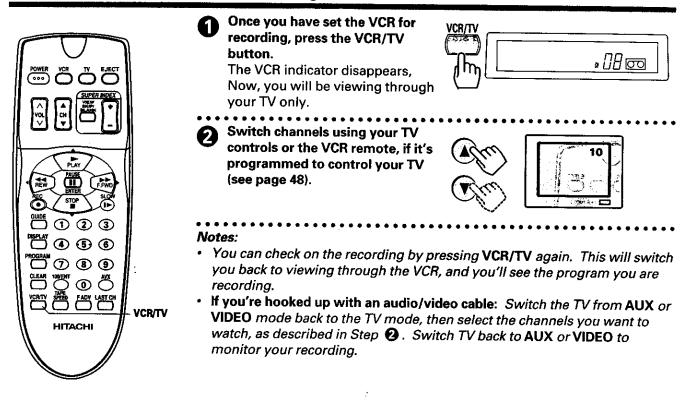




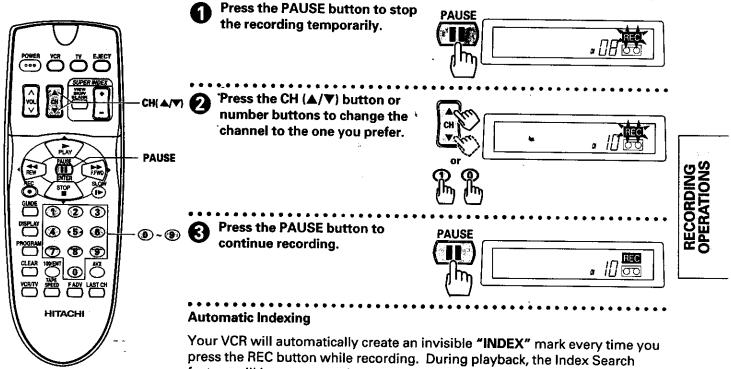




To watch one program while recording another



To change the channel being recorded

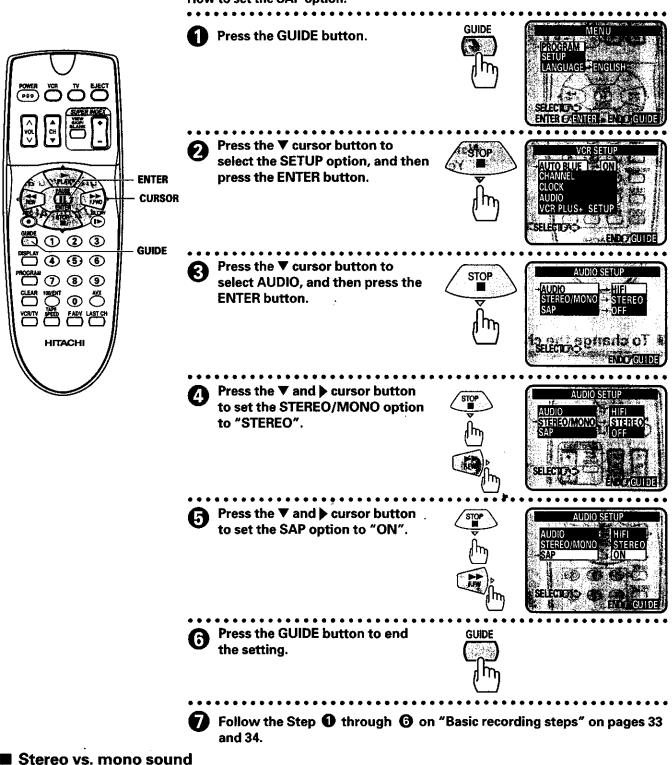


press the REC button while recording. During playback, the Index Search feature will let you move through a tape that has several recordings on it by searching for the "INDEX" mark. See page 28, "Locating the beginning of a recorded program (INDEX SEARCH)".

To record a Second Audio Program (SAP)

Some stations transmit a Second Audio Program – such as in a second language. If a station broadcasts in SAP, the SA indicator will display on your TV screen. You can set the VCR to record a second audio program by activating the SAP option.

How to set the SAP option.



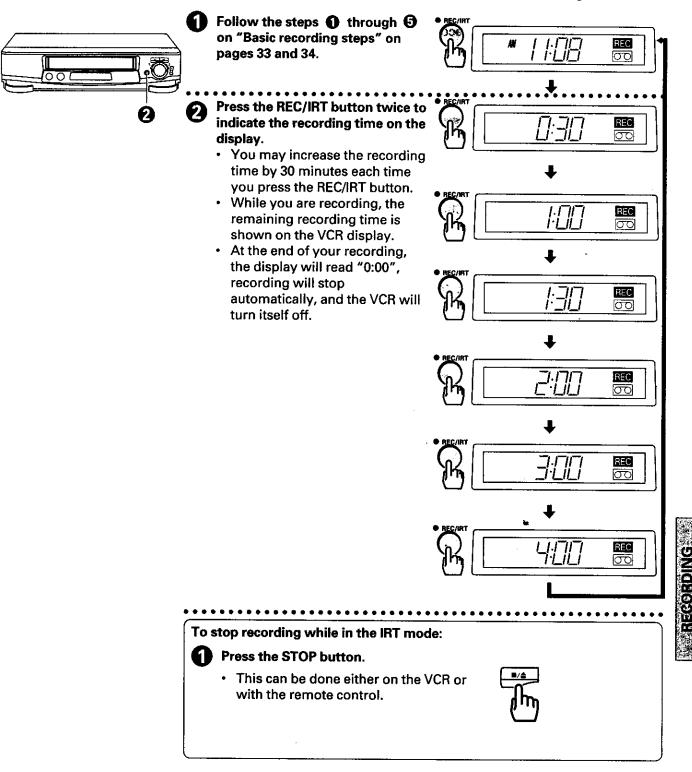
When you select the STEREO option in the initial setup operation, your VCR records in stereo any station that broadcasts stereo sounds. When a TV channel broadcasts in stereo, you'll see a stereo indicator on the TV screen.

Set to MONO if the stereo signal is weak and the sound is too "noisy".

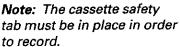
Note: When you select MONO, sound is recorded as mono even when a channel broadcasts in stereo.

Using the Instant Recording Timer (IRT)

The Instant Recording Timer (REC/IRT button on the VCR) will let you make a simplified timer recording without having to use the programming timer. In order to set the IRT properly the clock must be set before starting.



Setting the VCR to record later



To re-record on a cassette which has its safety tab removed.

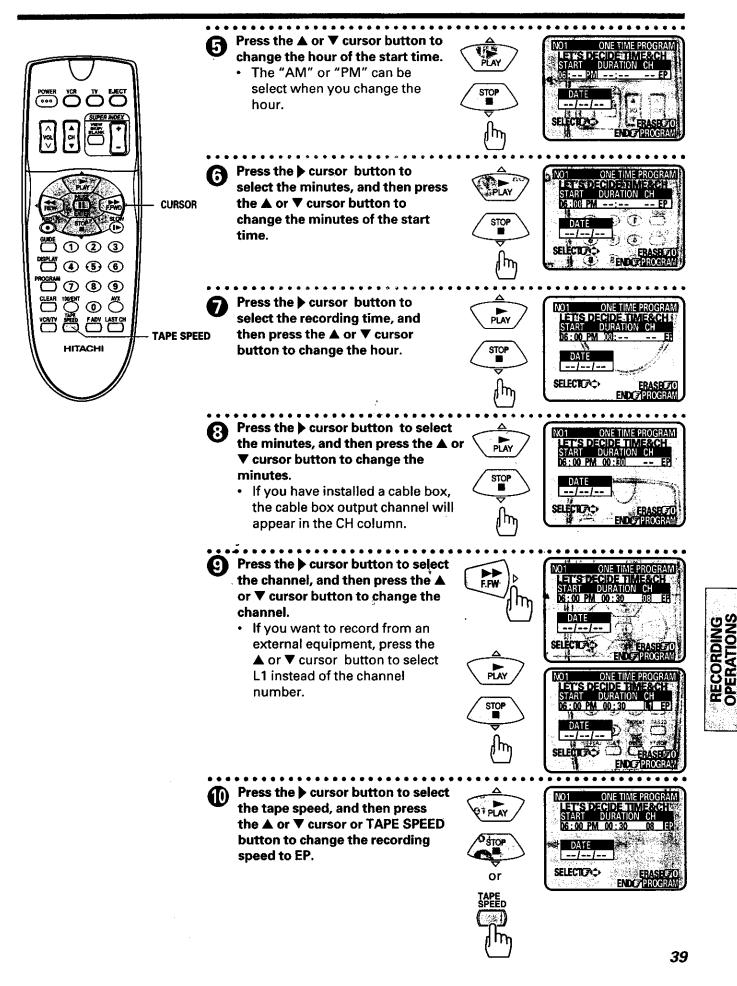
With the delayed recording feature, you can set this VCR so that it automatically turns on and records programs whenever you like – without your being around! You can record a program one time only, or you can automatically record a show every weekday or every week at the same time. You can preset as many as 8 timed recordings at once.

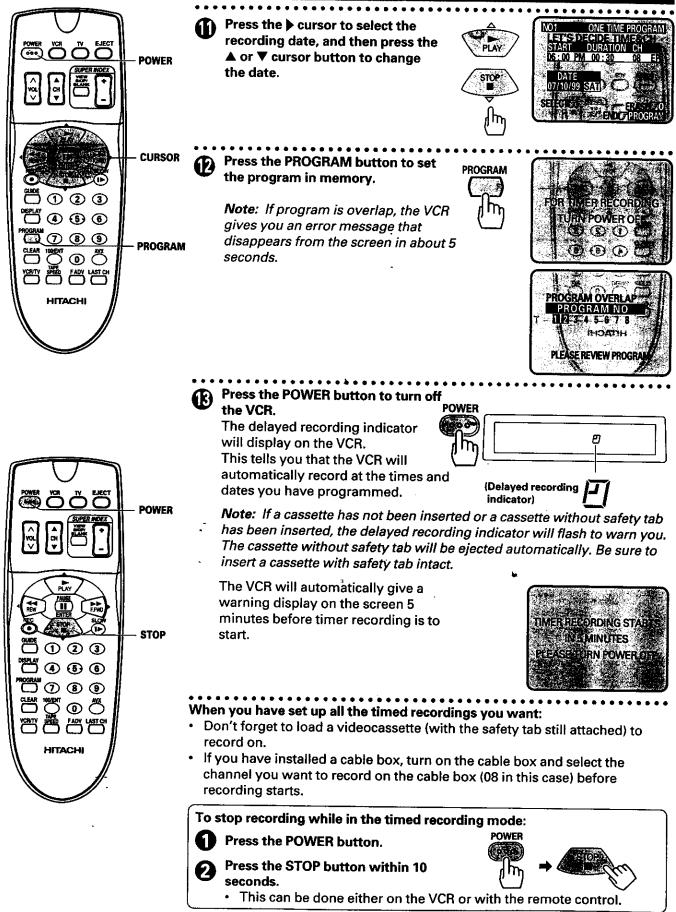
Cover the hole with cellophane tape.

Before you begin

Assemble the information you need for timed recording: Be sure that the clock is set to the correct time Date and day of the program Starting time 001Ending time Channel to be recorded 1 Blank or erasable videocassette (safety tab intact) **Delayed Recording Steps** You set up the delayed recording using the on-screen Easy Guide System. Insert blank or erasable tape. 8 The power comes on automatically and the 00 tape indicator lights on the display. 0 If a cassette without its safety tab is inserted, playback starts automatically and timed record won't operate. 00 * * * * * * * * * * Turn on the TV and select the video channel (3 or 4). POWER Or, if you are hooked up with an audio/video cable, set the TV to AUX or VIDEO. ENTER Press the PROGRAM button twice for HOURLY REC PROGRAM PROGRAM ARW ΠB delayed recording. SELECT PROGRAM TYPE Press the PROGRAM button once, Ò the screen for VCR PLUS+ Π_{1} programming of the timer will appear. NEXTOPENIER SELECTO700 Press the PROGRAM button twice, this screen rogram () (7) (8) (9) END PROGRAM PROGRAM will appear. DEVENT 0 Ö If eight programs have already been stored in memory, "FULL" will flash in the VCR's display for about five seconds. The screen on the right will not appear at this time. HITACHI **Types of Delayed Recordings** ONE TIME Records one show at a particular date and time. DAILY Records a show at the same time every day of the week, Monday through Friday. WEEKLY Records a show at the same day and time every week. Press the ENTER button to bring 4 ONE TIME PROGRAM up the screen for One Time DURATION CH Recording. DATE ELECTING Real PEPROC

EXAMPLE: Set the VCR to record **"one time"**, a program on **Channel 8** that starts at **6:00 PM** and records for 30 minutes on **7/10/99**, at the **EP** recording speed.

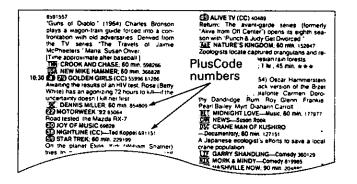




Important: Your timed recording settings take effect when you turn off the power on the VCR.

About the VCR Plus+ system

This handy feature makes timed recording a snap. You don't need to enter the specific channel, date, time, or duration of a program. All you enter is its PlusCode programming number – a number of up to eight digits. This special code is easy to find in your favorite TV program guide or daily newspaper. Here's a sample page from TV Guide showing PlusCode numbers next to each program.



Your local channels may be different from the VCR Plus+ channel codes. To get ready to record with the VCR Plus+ system you need to assign your local broadcast and cable channel numbers to the VCR Plus+ channel codes already stored in your VCR's memory. This is called *channel setup* and you do it using the on-screen Easy Guide System and the following step-by-step instructions. Then you will be ready to begin VCR Plus+ recording, also using the on-screen Easy Guide System.

VCR Plus+[®] and PlusCode[®] are trademarks of Gemstar Development Corporation.

Channel setup

Before you begin

- Look for a listing like this one in your local TV program guide or Sunday newspaper TV section. Notice the small numbers to the right of the station name. These are the VCR Plus+ channel numbers that you will use in the channel setup procedure.
- Make a list of the VCR Plus+ channel numbers and the channel numbers you are receiving them on. If there are any differences, **YOUR** channel numbers must be assigned to the corresponding VCR Plus+ numbers.

(See Example)

Note in the example that the channel numbers are the same except for **20** (received on channel 8) and **42** (received on channel 38). These two channels must be assigned.

EXAMPLE

WTTV (ind.) 04

WFYI (PBS) 20

WXIN (Fox) 50

(ALE) Arts & Entertainment Network 39

CNN Cable News Network 42

(DSC) The Discovery Channel 37

WRTV (ABC) 06 *

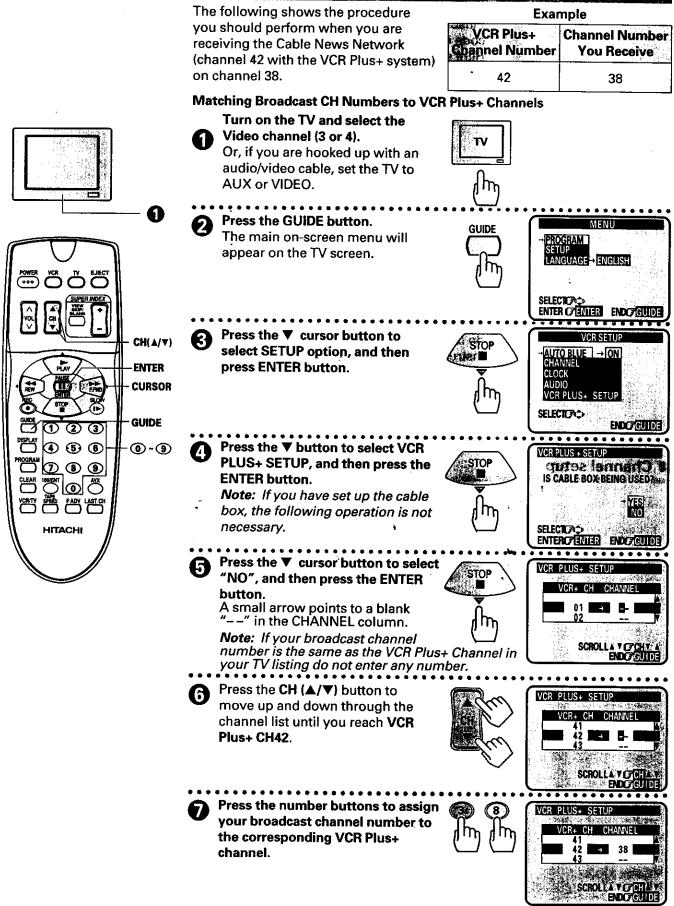
Channel Number	Channel Number You Receives
04 (ind.)	04
06 (ABC)	06
20 (PBS)	08
42 (Cable News Network)	38

VCR Plus+ Channels

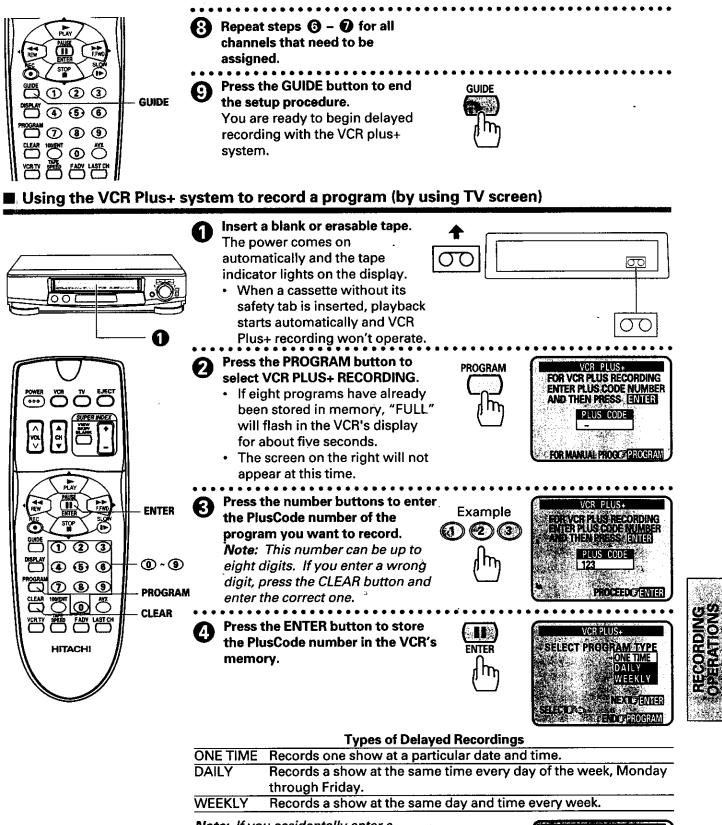


This setup should be performed if you are using an Antenna or Cable without a cable box. (Hookups [A], [B], [C] or [D].) If you receive all your channels through a cable box (Hookups [E], [F] or [G]), the following operation is not necessary.

VCR Plus+ setup — Channel setup



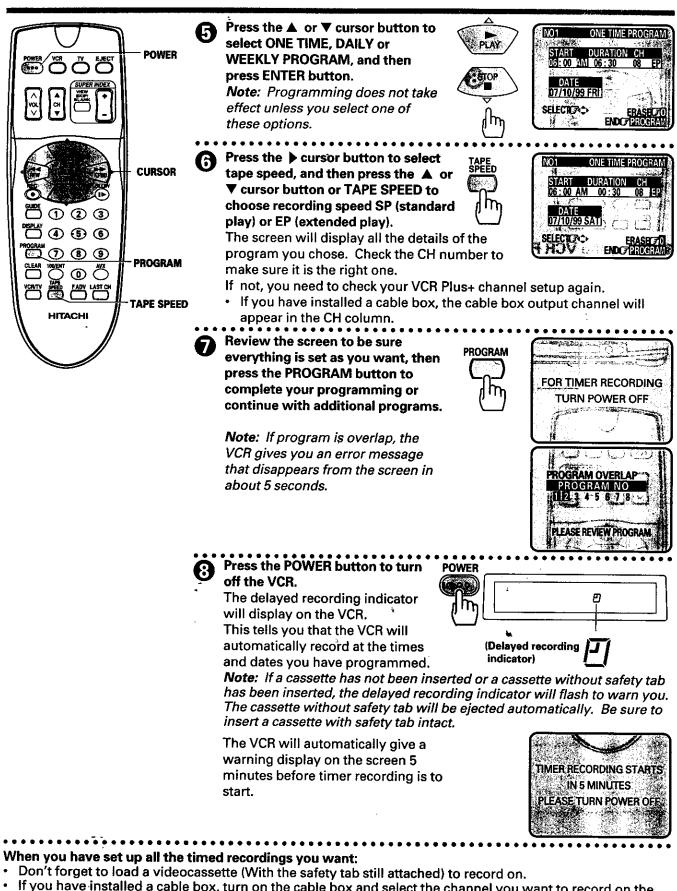
In this example broadcast channel 38 is assigned to VCR Plus+ channel 42. **Note:** If you enter a wrong digit, Press the CLEAR button to erase the wrong number and enter the correct one.



Note: If you accidentally enter a nonexistent PlusCode number, the VCR gives you an error message that disappears from the screen in about 10 seconds.



43



 If you have installed a cable box, turn on the cable box and select the channel you want to record on the cable box before recording starts.

Important: Your timed recording settings take effect when you turn off the power on the VCR.

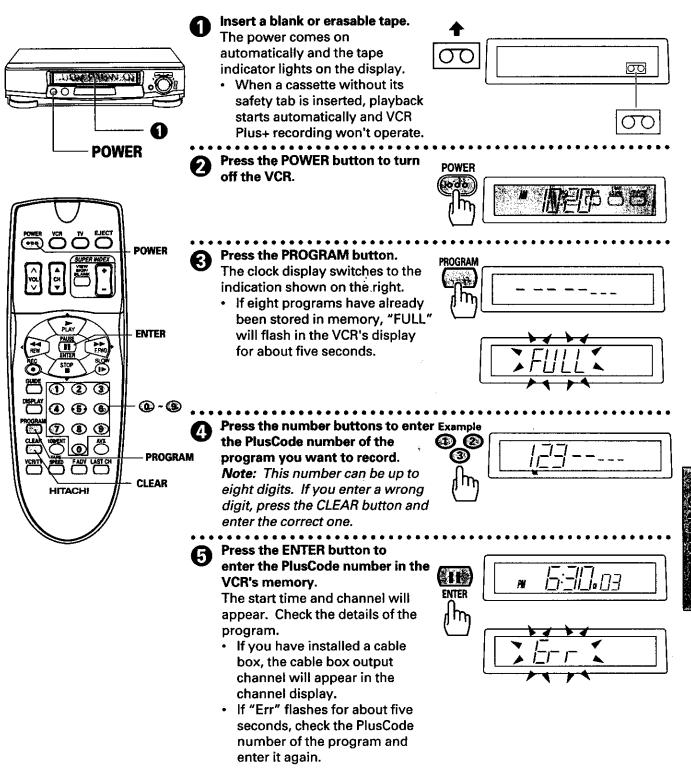
Caution of VCR Plus+ Recording

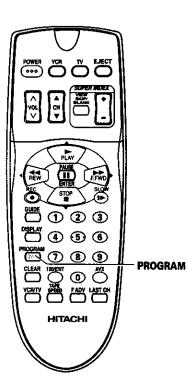
After entering a PlusCode number, check the information displayed with the "PROGRAM REVIEW". If there is (are) any unnecessary program(s), please cancel or correct it (them). Please refer to page 47, "Reviewing what you have programmed". 44

Using the VCR Plus+ system to record a program (by using VCR's display)

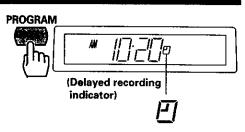
You can use the VCR Plus+ system to program the timer, observing the VCR's display, without turning on the power to the VCR and TV. *Notes:*

- If you use the VCR Plus+ system to program the timer while observing the VCR's display, you can only program a one-time recording.
- To stop programming, press the POWER button to turn the VCR power on.





- Press the PROGRAM button to complete your programming or continue with additional programs.
 The delayed recording indicator
 - will display on the VCR. This tells you that the VCR will
 - automatically record at the times
 - and dates you have programmed.



Note: If a cassette has not been inserted or a cassette without safety tab has been inserted, the delayed recording indicator will flash to warn you. The cassette without safety tab will be ejected automatically. Be sure to insert a cassette with safety tab intact.

When you have set up all the timed recordings you want:
Don't forget to load a videocassette (with the safety tab still attached) to

record on.

• If you have installed a cable box, turn on the cable box and select the channel you want to record on the cable box before recording starts.

Important: Your timed recording settings take effect when you turn off the power on the VCR.

Caution of VCR Plus+ Recording

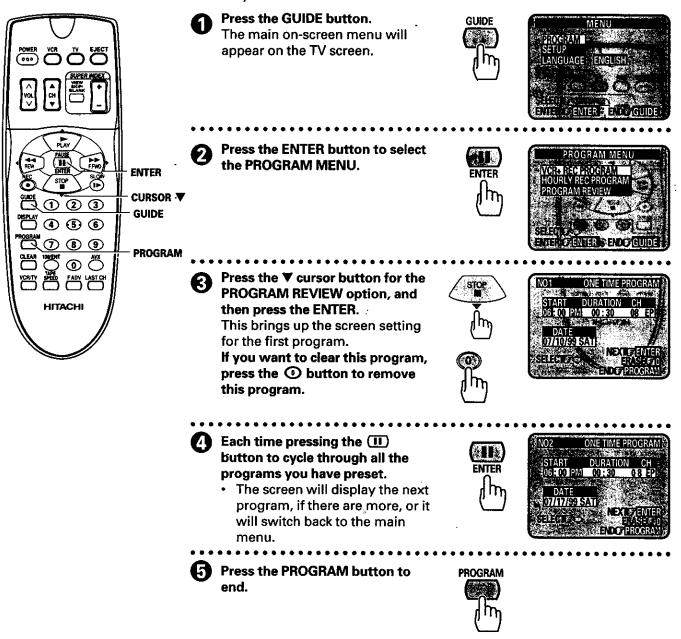
After entering a PlusCode number, check the information displayed with the "PROGRAM REVIEW". If there is (are) any unnecessary program(s), please cancel or correct it (them). Please refer to page 47, "Reviewing what you have programmed".

To go into the recording mode:

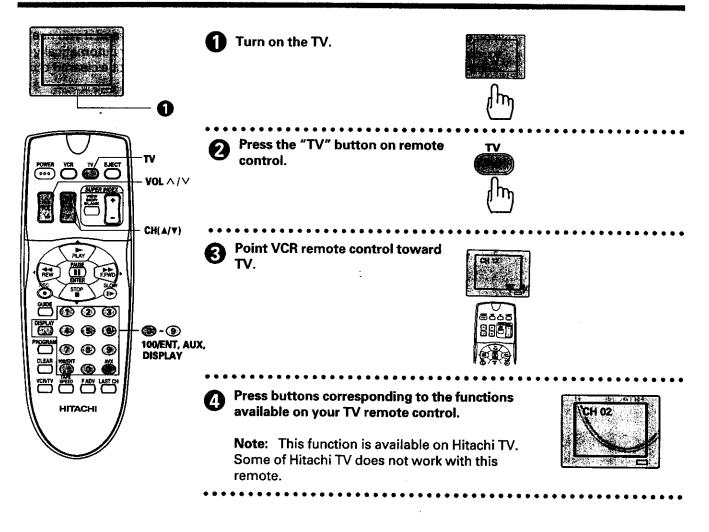
- 1. Press the POWER button to turn the VCR on.
- 2. Turn on TV and select the video channel (3 or 4).
- 3. Press the TAPE SPEED button to switch the recording mode.

Reviewing what you have programmed

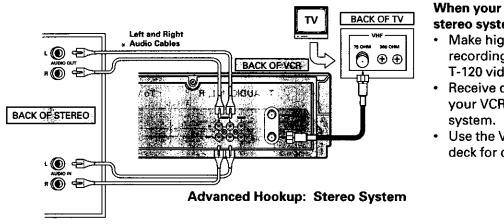
You can look back over any of the recordings you have preset and if you need to, clear out any of the programs. Normal programs will clear automatically once recording is complete, but daily and weekly setting must be cleared out manually.



Using the VCR remote to control your Hitachi TV



Hookup



When your VCR is connected to a stereo system, you can:

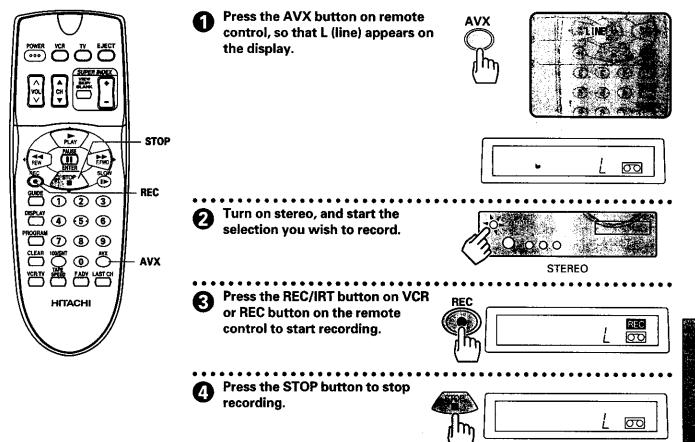
- Make high quality "audio only" recordings for up to 6 hours (on a T-120 video cassette tape).
- Receive quality stereo sound from your VCR through your stereo system.
- Use the VCR as an extra audio tape deck for dubbing.

* PURCHASED SEPARATELY

To record from stereo

BEFORE YOU BEGIN ····

- Make sure the VCR is connected to your stereo system, as shown above.
- Make sure that "STEREO" audio is selected from the VCR Set-Up Menu, as shown on page 36, of "RECORDING OPERATIONS" section, "Stereo vs. mono sound".
- Select VCR recording speed (SP or EP) as shown on page 33, of "RECORDING OPERATIONS" section, "Basic recording steps".



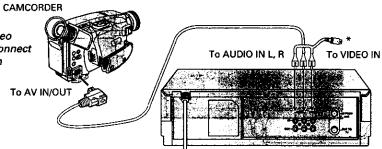
Hookup

You may use your VCR to copy tapes from any camcorder onto standard VHS cassette tapes.

NOTE: If your camcorder is not stereo (has only one audio plug), connect it to the AUDIO IN-L input on

* It is not necessary to connect the S-VIDEO jack.

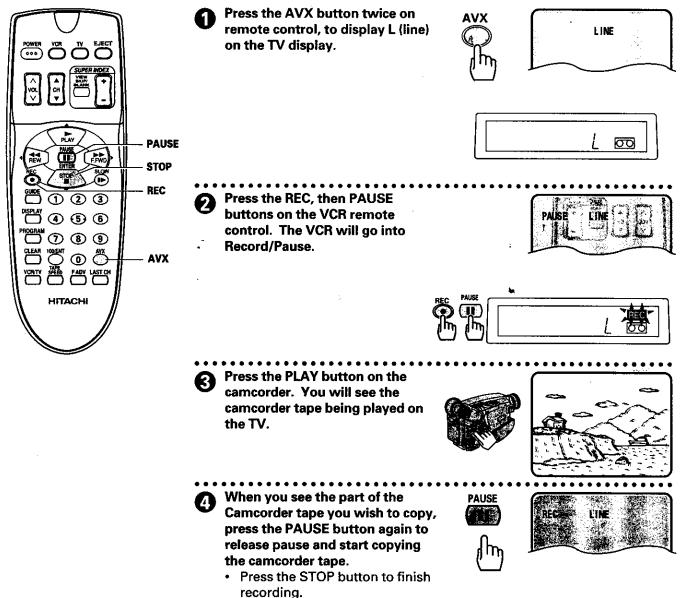
the back of the VCR.



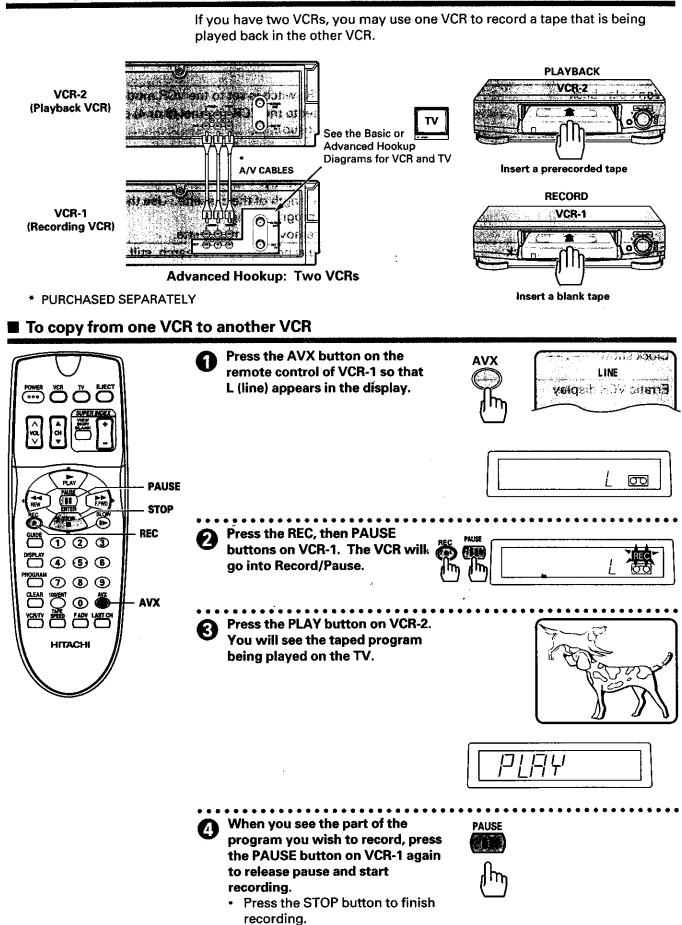
To copy from a camcorder

BEFORE YOU BEGIN...

Connect the camcorder's AV output cable to the audio/video jacks on the back of your VCR.



I Hookup



Problem guide

No power	Make sure the VCR is plugged into an AC outlet.		
Remote control doesn't work	Make sure the batteries are fresh, and properly installed.		
Won't record	Safety tab has been removed from cassette (VCR will automatically eject the tape).		
Won't play back	Make sure the TV/VCR switch is set to the VCR mode.		
	 Make sure the TV is set to the VCR channel (3 or 4) or AUX (if using direct audio/video hookup). 		
Won't make timer recordings	The VCR power must be turned off to activate timer recording.		
	Clock is not set correctly.		
	Programs entered incorrectly.		
	Programs exceed the length of the cassette. Use the EP recording		
	speed for maximum programming.		
	Safety tab has been removed from cassette.		
Snowy picture in playback	 Snow or picture noise is normal during search, still, and slow Playback. 		
	Head cleaning may be required.		
	 Tape is worn or of inferior quality - adjust tracking controls. 		
Snowy picture in normal TV viewing	Check antenna or cable connections.		
Clock shows:	 Power has been interrupted - reset the clock. Reset the clock. 		
Erratic VCR display	Push the reset switch with a sharp pointed instrument (pen, toothpick, etc.).		

Maintenance

Regular periodic maintenance is required to maintain optimum VCR performance. Such maintenance and adjustments should not be attempted by the user. Please consult your service dealer for further information.

Note: Dirt accumulation on the video heads will cause the playback picture to become noisy. The VCR may require the video heads to be professionally cleaned by a qualified service dealer.



Guide indications in VCR display and OSD screen

OSD	Indication	When it appears	Meaning and troubleshooting
-	(12) SPRATT &	When programming the timer	 The VCR clock has been set to ":". Set the time and program the timer.
	In Carlo BT - B 2511 Carlo BT - B 2511 Relacific - (flashes for about 5 seconds)	When programming the timer (by using VCR display)	 A non-existing PlusCode number has been entered. Check the PlusCode number of the program and enter it again.
	(flashes for about 5 seconds)	When programming the timer	 Eight programs have already been stored. Cancel unnecessary program and transfer the new programming.
	(flashes uninterruptedly)	When you turn power off after programming the timer, or transfer the programming with power off	 A cassette has not been inserted or a cassette without safety tab has been inserted. A cassette without safety tab will be ejected automatically. Insert a cassette with safety tab intact.
PLEASE INSERT TAPE bread Understoor frage 15 schilds Historican Clark Display for about 5 sec.	(flashes for about 3 seconds)	When you press the play, record, fast forward, rewind or super index button	 A cassette has not been inserted. Insert a cassette.
NO TAB IS ON THIS TAPE PLEASE INSERT TAPE WITH TABLE Display for about 5 sec.	(flashes for about 3 seconds)	When you press ' the record button for recording or dubbing, or press the () (VIEW/ SKIP/BLANK) button for BLANK SEARCH	 A cassette without safety tab has been inserted. It will be ejected automatically. Insert a cassette with safety tab intact.
	(fiashes for about 3 seconds)	When you turn power on	 The video heads are dirty. Cleaning them is recommended. To switch off the CL display, clean the heads, turn the power off and press the channel ▲ button. The CL display automatically switches off when recording and playback are performed for about 5 hours after it appears.

The following indications appear in the VCR display and OSD screen to tell you the current status of your VCR.

Technical specifications

Format:	VHS		
Video Signal System:	NTSC color EIA standard		
Record/Playback System:	Video: 4 Head		
	Audio: VHS Hi-Fi stereo record/playback system		
Tape Speed:	33.35 mm/sec (SP), 16.67 mm/sec (LP) (playback		
	only), 11.12 mm/sec (EP)		
RF Input:	UHF/VHF 75 ohm		
Tuner:	USA: 181 channel tuning ability* (125 cable		
	channels)		
	Canada: 178 channel tuning ability* (122 cable		
	channels)		
Type:	Auto programming frequency synthesis		
Power Input:	AC 120V 60 Hz		
Power Consumption:	16W nominal		
Fower consumption.	2.0W (Standby mode)		
Cohinet Sizes			
Cabinet Size:	14-15/16" (W) x 3-11/16" (H) x 10-14/16" (D)		
	38.0 cm (W) x 9.3 cm (H) x 27.6 cm (D)		
Weight:	7.7 lbs. (3.5 kg)		
Storage Temperature:	-4°F to 131°F		
Operating Temperature:	41°F to 104°F		
Accessories:	1 coaxial cable (Part No. EW10251)		
	1 remote control unit (Part No. HL11134), 2 AA		
	batteries		
* Check your cable company's compatibility requirements			

* Check your cable company's compatibility requirements.

For information about how to obtain these and other HITACHI accessories, please call HiTRON, Inc. TOLL FREE at 1-800-995-4500 (in the continental United States). For ALASKA and HAWAII, please contact the nearest Hitachi **Regional Office.**

Design and specifications subject to change without notice.

Hitachi Service Hotline

Authorized Hitachi service facilities are available throughout the US and Canada. For the location nearest to you, call the Hitachi Service Hotline at one of these numbers:

In the continental U.S.A



In Canada

MONTREAL

514-956-9882