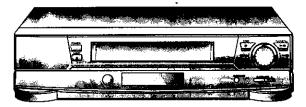
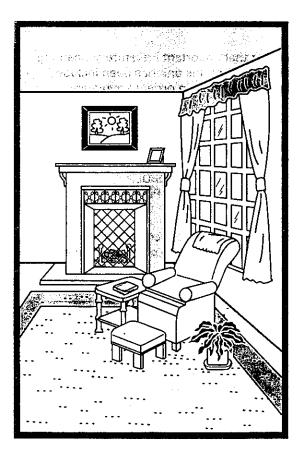
HITACHI

Auto Install System – simply plug in all leads and press the POWER button (see page 17).





VIDEO CASSETTE RECORDER

VT-UX6430A VT-UX6440A

Owner's manual





This instruction manual includes instructions on use of both VT-UX6430A and VT-UX6440A.

Using these quality features:

- Common for VT-UX6430A and VT-UX6440A
- 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 Gernstar Development Corporation.
 - The VCR Plus+ system is manufactured under license from Gernster Development Corporation.
- Auto install system automatically tune in broadcast channels and set the present time.
- 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 clock set feature allows you to automatically set the present time using a time signal.
- Auto head cleaning system minimizes the need for accessory cleaners and professional head cleaning.
- 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.
- VT-UX6440A only
- 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.

HITACHI (HSC) CANADA INC.

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

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

RISK OF ELECTRIC SHOCK DO NOT OPEN







This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.



This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

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 RAIN 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

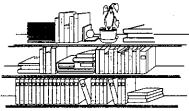
polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted without blade exposure. If you need an extension, use a polarized cord.



- **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.

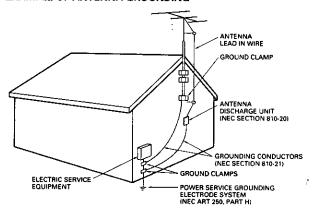
Caution: Maintain electrical safety. Powerline operated equipment or accessories connected to this unit should bear the UL listing mark or CSA certification mark on the accessory itself and should not have been modified so as to defeat the safety features. This will help avoid any potential hazard from 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.



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

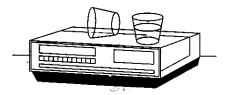


NEC - NATIONAL ELECTRICAL CODE

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.
- f. 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.





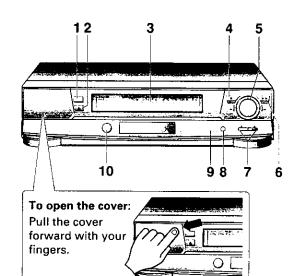
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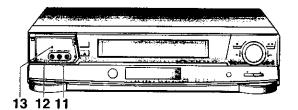
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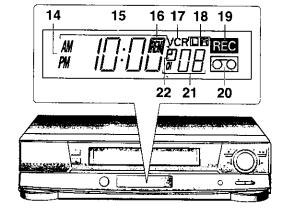


CUSTOMER CONTROLS

VCR Customer Controls







						
Item No.	Function	Page				
1	POWER button	9				
2	Eject button					
3	Cassette compartment	9				
4	STOP button	24				
5	Shuttle ring	33				
6	PLAY/STILL button	28				
7	CHANNEL (channel up/down)/	39				
8	TRACKING buttons REC/IRT button	29				
9	TIMER indicator	40				
10	Infrared receiver	46				
11	AUDIO IN L (mono), R jacks	8				
12	VIDEO IN jack	57 57				
13	ANT. OUT select button	10				
		10				
	VCR Display	_				
14 15	AM/PM indicators	18				
15	Time,	18				
	Time counter,	37				
	Tape remaining or VCR mode indicator	37				
	PLAY — playback direction	28				
	SRCH — double-speed viewing	28				
	play, visual	31				
	search and					
	skip playback					
	SLOW — slow play	31				
	REW — rewind	28				
	S:REW— high speed rewind	29				
	FF — fast forward					
	S:FF — high speed fast forward					
Į	STILL — play pause and frame advance	30				
16	REM (tape remaining time) indicator					
17	VCR, operate mode					
18	Audio indicators					
19	REC — record (flashes during					
	record pause)					
20	Tape-in indicator	9				
21	TV channel or	39				
ļ	Auxiliary (L1/L2)	56				
22	Delayed recording indicator	46				

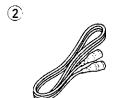
Accessories supplied

Check and identify the accessories supplied. If any are missing or appear damaged, consult your dealer.



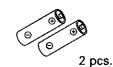


Remote control



Cable for connecting this VCR to a TV

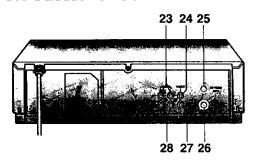
3



Batteries for remote control handset (R6)



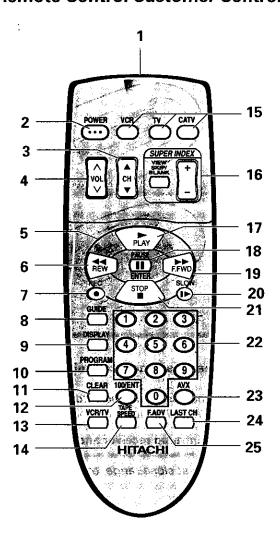
VCR Customer Controls



Item No.	Function	Page
23	AUDIO IN L, R jacks	56
24	VIDEO IN jack	58
25	IN FROM ANT. — signal input	10
26	OUT TO TV — signal out to TV	10
27	VIDEO OUT jack	11
28	AUDIO OUT L, R jacks	11

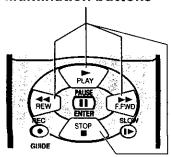


Remote Control Customer Controls



Item No.	Function	Page
1	Transmission window	8
2	POWER button	22
3	CH (channel up/down) button	39
4	VOL button — increase or decrease	54
	the audio volume	
5	Cursor buttons	
6	REW button — fast rewind or search	28/31
7	REC — record button	40
8	GUIDE — to recall OSD menu	22
9.	DISPLAY — to recall on-screen display	37
10	PROGRAM (programming) button	44
11	CLEAR — clears time counter	38
12	100/ENT button	39
13	VCR/TV mode select button	10
14	TAPE SPEED button — select the	39
	recording speed SP or EP.	
15 VCR, TV, CATV — device buttons let you		54/55
	set the remote to control one of the	
	three devices	
16	SUPER INDEX buttons — to use the	34
	SUPER INDEX function	
17	PLAY button — playbaçk	28
18	PAUSE/ENTER buttons	30
19	F.FWD button — fast forward or search	29/31
20	SLOW button — for slow motion picture	31
21	STOP button — stops play/record	28
	function	
22	Number buttons	24
23	AVX button — select L1 or L2	56
24	LAST CH button – Switches to the TV	54
	channel you watched previously during	
	the current viewing session.	
25	F.ADV button	30

Illumination buttons

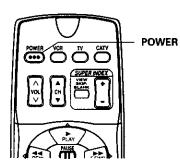


VT-UX6440A only

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

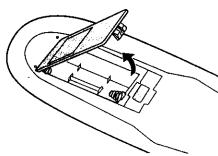


The remote control requires two "AA" batteries.

Insert your fingertip into the notch and push the battery compartment lid to remove it.

Note: When replacing the

Note: When replacing the batteries, remove the old batteries and keep the POWER button depressed for 10 seconds before inserting fresh batteries.



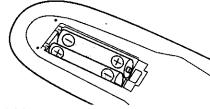


Hold for 10 seconds

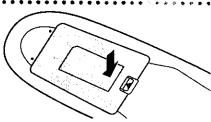


nstall batteries.

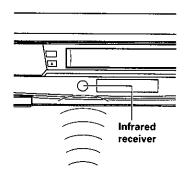
 Align the positive (+) and negative (-) polarity marks on the batteries with those indicated on the remote control.



Replace the lid.



Operating in the remote control



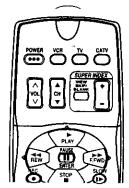
Operating the VCR:

Make sure there is no obstacle between the remote control and VCR's infrared receiver.

Note: You cannot operate the VCR if there is an obstacle (for example, coffee table, sofa, etc) between the VCR and remote control.

Point the remote control at the VCR's infrared receiver and press the required button on the remote control.

Note: If the remote does not work even at close range, try replacing the batteries with two fresh "AA" batteries.





Types

Only use video cassettes with the VHS mark in this VCR.

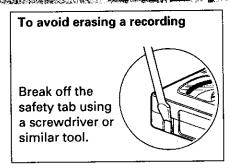


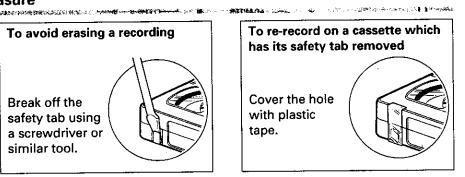
The table shows the recording time of different cassettes.

- 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	EΡ	
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



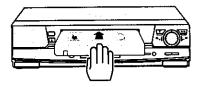


The VCR automatically enters the playback mode when a cassette without its safety tab is inserted. The VCR won't record on a tape without a safety tab and the cassette will be ejected if the REC or REC/IRT button is pressed. Be sure to check the safety tab before inserting a cassette.

I Insertion

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

The VCR automatically turns on and the "Tape-in" indicator o turns on when the cassette is in place.

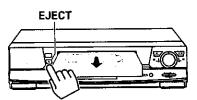


I Removal

Press the EJECT button on the VCR.

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

- The "Tape-In" indicator on turns off.
- The cassette can be ejected with the power on or off.

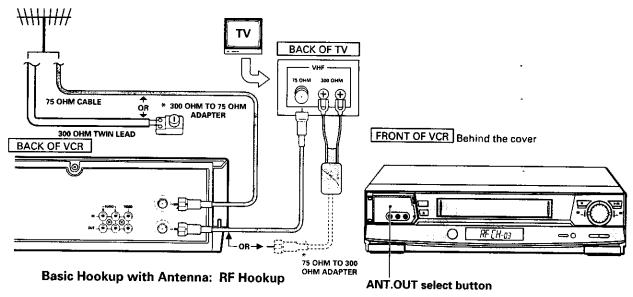


YOU CAN.....

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

Caution

Do not connect to the mains supply socket before connecting all leads (see page 17).



* PURCHASED SEPARATELY

TABLE A

FUNCTION	СНАМ	NNEL SELECTION	VCR indicator (Press the VCR/TV mode select button to turn the VCR indicator on or off.)			
·	TV	y VCR				
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.

Turn on the power of both the TV and the VCR. Press the ANT. OUT button on front of the VCR.
 Pressing the 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.

ADVANGED-ANTENNA HOOKUP-AV HOOKUP

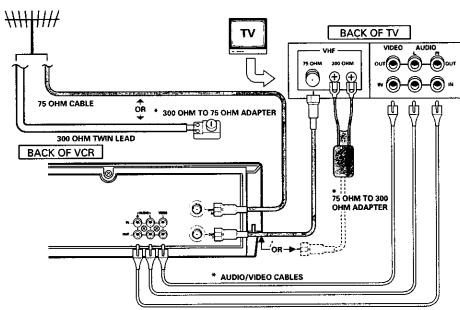
WITH THIS HOOKUP

YOU CAN.....

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

Caution

Do not connect to the mains supply socket before connecting all leads (see page 17).



Advanced Hookup with Antenna: AV Hookup

* PURCHASED SEPARATELY

TABLE B

FUNCTION	` CHAN	INEL SELECTION	VCR indicator (Press the VCR/TV mode	
FUNCTION	τv	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		. :	

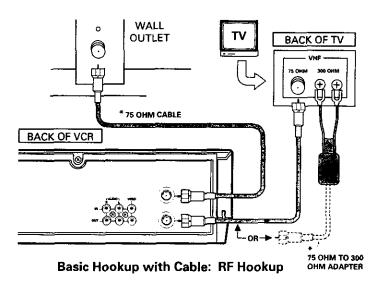
HOOKUPS

YOU CAN

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

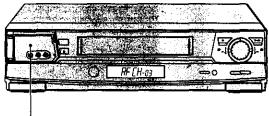
Caution

Do not connect to the mains supply socket before connecting all leads (see page 17).



FRONT OF VCR Behind the cover

ANT.OUT select button



* PURCHASED SEPARATELY

TABLE C

	CHAN	INEL SELECTION	VCR indicator	
FUNCTION	TV	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		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.

Turn on the power of both the TV and the VCR. Press the ANT. OUT button on front of the VCR.
 Pressing the 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.

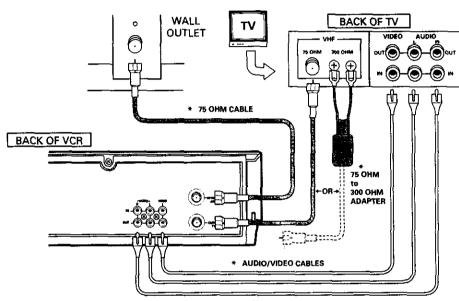


YOU CAN.....

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

Caution

Do not connect to the mains supply socket before connecting all leads (see page 17).



Advanced Hookup with Cable: AV Hookup

* PURCHASED SEPARATELY

TABLE D

	CHAN	INEL SELECTION,	VCR indicator (Press the VCR/TV mode	
FUNCTION	TV VCR		select button to turn the VCR indicator on or off.)	
Select and Watch Cable Channels using TV	Select Channel to Watch	1	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 mains supply socket before connecting all leads (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.

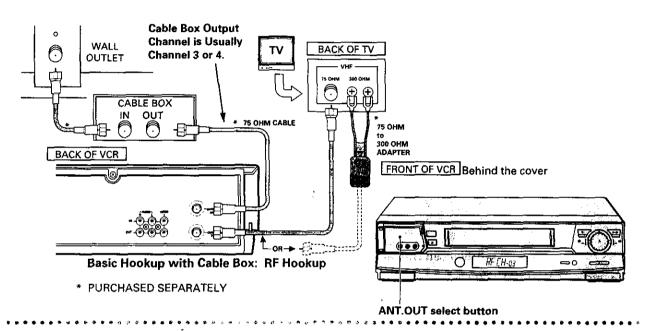


TABLE E

** *** ***						
FUNCTION	CI	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 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.

Turn on the power of both the TV and the VCR. Press the ANT. OUT button on front of the VCR.
Pressing the 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

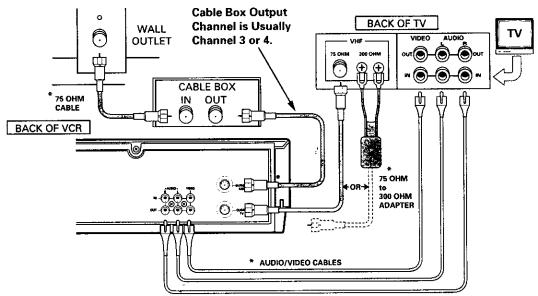
YOU CAN'T

· RECORD ONE CHANNEL AND WATCH ANOTHER

Caution

Do not connect to the mains supply socket before connecting all leads (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

FILLOTON	Cł	VCR indicator (Press the VCR/TV		
FUNCTION	τv	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	
Record and Watch the Same Channel	AUX or VIDEO	Select Cable Box Output Channel	Select Channel to Watch	
Record One Channel Watch Another				,
Watch Playback of a Tape	AUX or VIDEO			

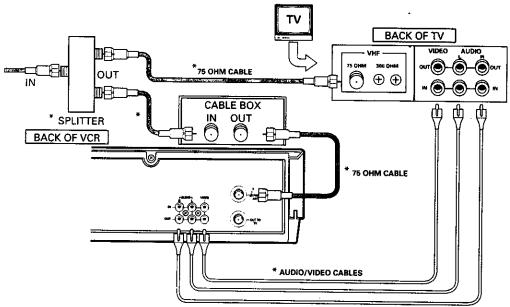
YOU CAN.....

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

Caution

Do not connect to the mains supply socket before connecting all leads (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

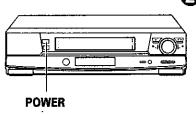
FUNCTION	CHANNEL SELECTION			VCR indicator (Press the VCR/TV
	τv	VCR	CABLE BOX	mode select button to turn the VCR indicator on or off.)
Watch Cable Channels on TV	Select Channel to Watch			
Select and Watch Cable Channels using VCR	AUX or VIDEO	Select Cable Box Output Channel	Select Channel to Watch	A CONTRACTOR OF THE CONTRACTOR
Record and Watch the Same Channel	AUX or VIDEO	Select Cable Box Output Channel	Select Channel to Watch	400 444 1 1061 68 708 038 1 10 140
Record One Channel Watch Another	Select Channel to Watch	Select Cable Box Output Channel	Select Channel to Record	
Watch Playback of a Tape	AUX or VIDEO			



■ Setting the channel and clock automatically

Switch on at the mains supply socket after completely connecting all leads. Please refer to page 10 to 16 on "HOOKUP" sections.

The VCR will be in the standby mode at this stage.



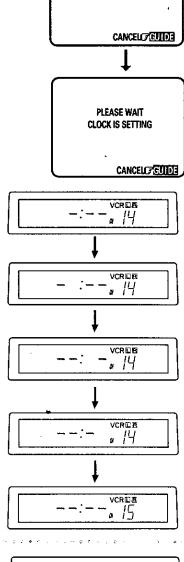
Press the POWER button on the VCR to start the auto install.

This screen appears to show that the channel is being set. After the channels are stored in memory, the clock set will run immediately.

The screen appears to show that the clock is being set.

The dash " - " puts out lights one by one as shown on the VCR's display.

- The VCR will automatically store channels received in your area.
- It takes about 2 3 minutes.



PLEASE WAIT

CHANNEL IS SETTING

When the auto install is complete, the channel with the lowest number and the correct time appears in the VCR's display.



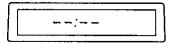
Notes

- If you press the POWER button inadvertently before connecting all leads, follow the steps on page 22 for further tuning function.
- If you press the POWER button during auto install 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.

I Tips

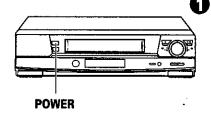
You'll need to set the clock when first hooking up your VCR, and any time the power goes out more than 30 seconds.
When you first plug in the VCR or after a power outage, the clock display will read "--:-".



Auto clock set function

This function sets the VCR's clock automatically when the VCR is tuned to a station which transmits a time signal together with TV programs. It also automatically sets the time differences between various time zones and sets the time during Daylight Saving Time (D.S.T). The auto clock set function operates each time the VCR is turned off.

- Some broadcast stations may not transmit a time signal. The auto clock set function does not operate when the VCR is tuned to a station which does not transmit a time signal. In this case, set the clock manually (See page 20).
- When the clock is set automatically, the displayed time may drift from the current time by up to one minute.
- Setting the clock automatically if your VCR's hooked up to an antenna or cable without a cable box (Hookups A, B, C) or D)



Press the POWER button to turn the VCR power off.

If the VCR is already turned off, press the POWER button to turn the power on, then press it again to turn the power off. The time will appear in the VCR display to show that the current time has been set. The automatic clock set procedure might take about 5 minutes.



Notes:

- If the clock is not set after about five minutes have elapsed, the clock must be set manually (see page 20).
- When the VCR power is restored after a power failure of more than 30 seconds, the clock will indicate "--:--", and the clock set procedure (automatic or manual) must be repeated.
- If the time displayed on the VCR drifts from the current time by more than one hour, select your correct time zone and set the DST (Daylight Savings Time) (see page 19).



■ What to do if the displayed time drifts from the current time by more than an hour

Note: Turn on the TV and select the VIDEO channel (3 or 4). Or, if you are hooked up with an audio/video cable, set the TV to AUX or VIDEO.

Press the GUIDE button.
The main on-screen menu will appear on the TV screen.





Press the ▼ cursor button to select the SETUP option, and then press the ENTER button.





Press the ▼ cursor button to select the CLOCK, and then press the ENTER button.

ENTER

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HITACHI

" 0 0

CURSOR

GUIDE

Make sure that "SET MODE → AUTO" is highlighted .

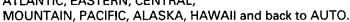


TIME ZONE

SELECTIFA:

Press the ▼ cursor button to select "TIME ZONE", and then press the ▶ cursor button to select your local time zone.

Each time the ▶ cursor button is pressed, the option for "TIME ZONE" switches from AUTO to - ATLANTIC, EASTERN, CENTRAL,



· This screen gives an example where ATLANTIC is specified.

Press the ▼ cursor button to select the D.S.T. MODE option.

Each time the ▶ cursor button is pressed, the option for "D.S.T MODE" switches from AUTO to ON, OFF and back to AUTO.





CLOCK SETUP

→ AUTO

→ AUTO

ATLANTIC

ENDO GUIDE

AUTO: The daylight saving time

(D.S.T) is set automatically.

The time advanced from the Standard Time by one hour is

displayed from the first Sunday of April through the last

Sunday of October.

OFF: The standard time is displayed throughout the year.

· This screen gives an example where ON is specified.

Press the ▲ cursor button to select "TIME/DAY INITIAL SET", and then press the ENTER button.

This serves appears to show that

ON:



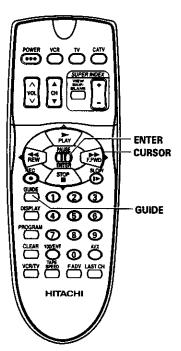
PLEASE WAIT
CLOCK IS SETTING
CANCELT GUIDE

This screen appears to show that the clock is being set.

Note: If the displayed time drifts from the current time even after steps **1** — **6** have been performed, reset

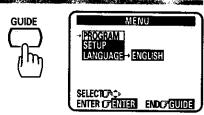
Press the GUIDE and ▼ cursor buttons then press the ▶ cursor button to specify another option, then follow step no 6 to set the time again.

■ To set the clock



Press the GUIDE button.
The main on-screen menu will appear on the TV screen.

You may view all the on-screen instructions in English, French, or Spanish. When you first set up your VCR, it will be set to English. Press the ▼ cursor button to select LANGUAGE option, and then press the ▶ cursor button for French or for Spanish.



Press the ▼ cursor button to select the SETUP option, and then press the ENTER button.





Press the ▼ cursor button to select the CLOCK, and then press the ENTER button.





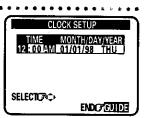
Press the ▼ cursor button to select SET MODE, and then press the ▶ cursor button to select MANUAL.





Press the A cursor button to select "TIME/DAY INITIAL SET", and then press the ENTER button.

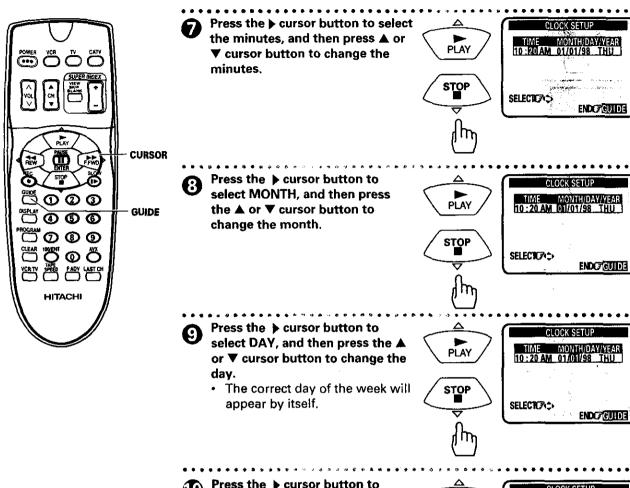


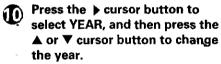


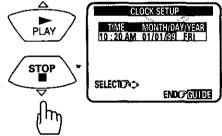
- Press the ▲ or ▼ cursor button to change the hour.
 - The "AM" or "PM" can be select when you change the hour.











Press the GUIDE button.
The VCR clock is now set, and should show the correct time of day on the VCR's display.

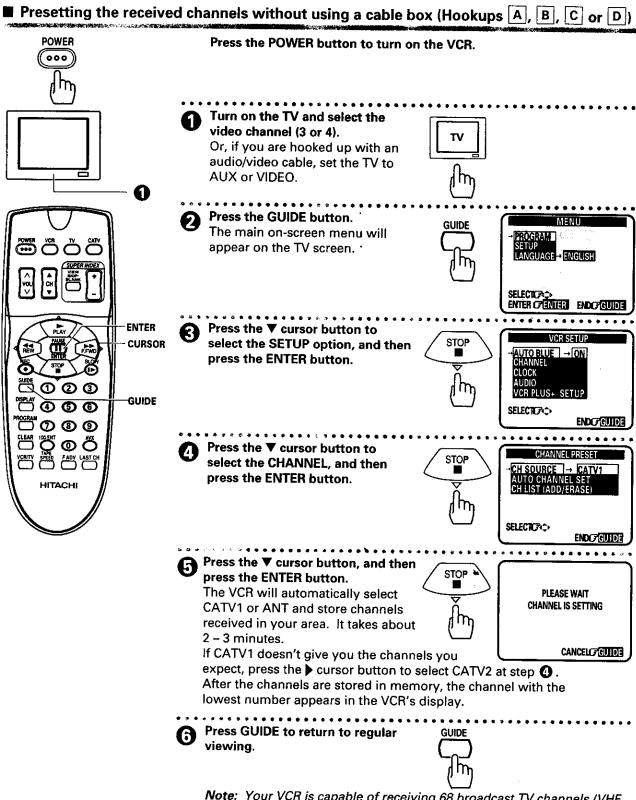


Notes:

- The clock uses the 12-hour system. You set it for AM or PM.
- If you press ▲ or ▼ cursor button continuously, the time or date is kept changing.



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



Note: Your VCR is capable of receiving 68 broadcast TV channels (VHF 2 – 13, UHF 14 – 69) and cable channels (CATV 1 – 125). In some areas channels cannot be received when CATV1 is selected. In this case, select CATV2 in the receiving setup.

■ When automatic presetting of channels are finished

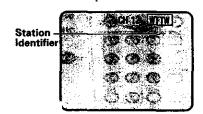
Press the CH (channel) button (or numbered buttons) to check the channels you can receive.

Note: If no channels have been set or a clear picture does not appear, check the antenna or cable connection.



■ Channel Caption (Station Identifier)

When your VCR is receiving a channel caption signal that is transmitted by a local broadcasting station together with a TV program, a station identifier is displayed on the TV screen.





PRE-TUNING THE VCR-TUNER

■ To add or erase channels

PLAY

STOP

GUIDE

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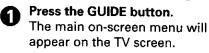
FADY LAST C

HITACHI

VCR/TY

CURSOR

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.

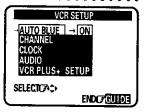






Press the ▼ cursor button to select the SETUP option, and then press the ENTER button.





Press the ▼ cursor button to select the CHANNEL, and then press the ENTER button.





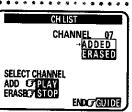
Press the ▼ cursor button to select CH LIST <ADD/ERASE>, and then press the ENTER button.





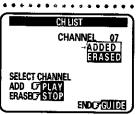
Use the number buttons to select the number of the channel you want to add or erase.





Press the STOP button to delete the channel, or press the PLAY button to add it.

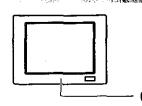




Press the GUIDE button to return to regular viewing.



■ Auto blue setting



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HITACHI

ENTER

GUIDE

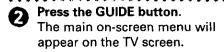
CURSOR

Turn on the TV and select the video channel (3 or 4).

Or, if you are hooked up with an audio/video cable, set the TV to AUX or VIDEO.











Press the ▼ cursor button to select "SETUP", and then press the ENTER button.





Press the cursor button to select AUTO BLUE "ON" or "OFF".

ON: The screen becomes blue and mutes sound when a channel without a broadcast signal on the VCR or a channel on which broadcasting has finished:

 If the signal is too strong, this function may not operate even if you specify ON. During playback this function does not operate.

OFF: The AUTO BLUE feature is switched off.





Press the GUIDE button to end the setting.

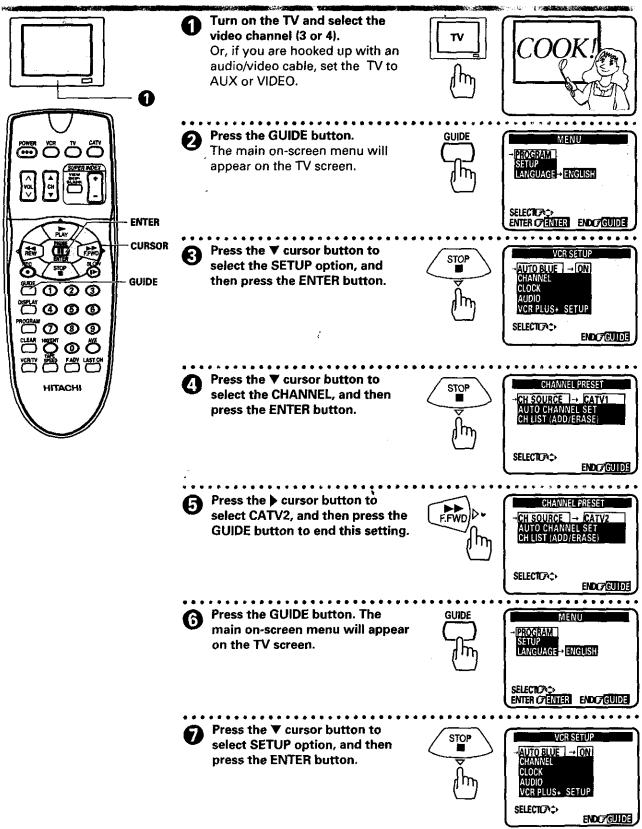




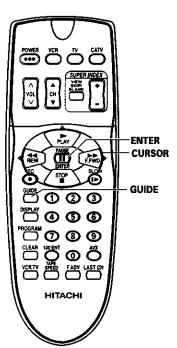
The following setup allows the VCR channel to automatically switch to the cable box output channel during delayed recording.

Note: This setup should be performed if you receive all channels through a cable box.

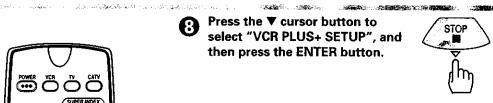


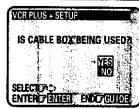


Note: Refer to the cable box owner's manual to identify the cable box output channel (usually 3 or 4).



Press the ▼ cursor button to 8 select "VCR PLUS+ SETUP", and then press the ENTER button.



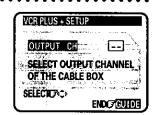


Press the ENTER button to answer "YES" to the question "IS CABLE **BOX BEING USED?"** Or, if you want to select "NO",

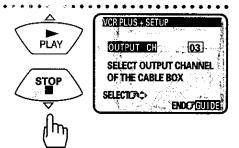


press the ▼ cursor button and then the ENTER button.

· If you select "YES", you need not operate "VCR PLUS + SETUP" (see page 48). During delayed recording, the VCR channel will automatically switch to the cable box output channel.



Using the VCR remote, press the ▲ or ▼ cursor button to enter the cable box output channel numbers.



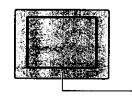
Press the GUIDE button to end this setting.



The cable box output channel has now been set. However, the VCR does not control your cable box. Turn on the cable box and leave it tuned to the channel you want to record before the recording is scheduled to begin.

Note: If you make a mistake when entering digits, press the REW button to return the white dash "-". Then, press the ▲ or ▼ cursor button to enter the correct number.

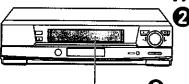
■ To playback a recorded tape



Turn on the TV and select the video channel (3 or 4).

Or, if you are hooked up with an audio/video cable, set the TV to AUX or VIDEO.





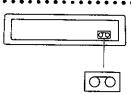
PLAY

STOP

Insert a recorded tape.

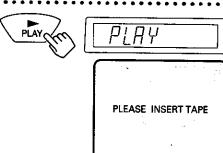
The power comes on automatically and the tape indicator lights on the display.

 When a cassette without its safety tab is inserted, playback starts automatically.





 If you press the PLAY button and the cassette has not been inserted, the warning screen will appear on the TV screen for several seconds. Insert a cassette.



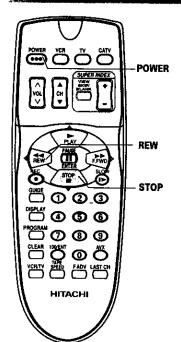
Press the STOP button to end playback.



Note: This VCR can quasi playback the tape that is recorded by S-VHS type. SQPB stand for S-VHS Quasi Playback

When VCR playback by SQPB, the inversion noise will appears on screen in STILL, SLOW and F.ADV mode.

■ Rewinding the tape



When the video cassette reaches the end of the tape, the VCR will stop and automatically rewind the tape.

 If you press the POWER button while the tape is rewinding, the power will not shut off until the tape has been completely rewound.
 You may also rewind the tape manually at any time.

Manual Rewind

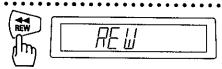
Press the STOP button to end playback.



Press the REW button.

The VCR rewinds the tape all the way to the beginning, then stops.

 Press the EJECT button on the VCR to eject the tape.

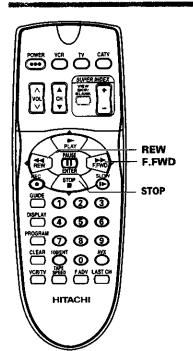


Movie Return

If your video cassette has the safety tab removed, the VCR will stop and automatically rewind the videocassette, eject it, and turn off the power when it reaches the end of the tape or a blank section of tape which lasts for more than 30 seconds.

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.

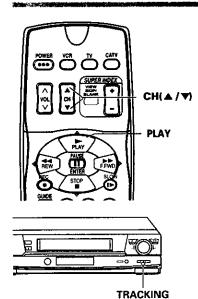
To stop the tape, press the STOP button.

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.

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

Press the CH (▲ or ▼) button on the remote control or TRACKING button on the VCR when viewing a cassette.

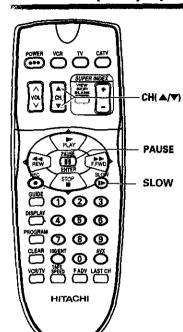
Press either the ▲ or ▼ button until picture is clear.





CDECIAL DLAVRACK EFFECTS

■ Variable speed playback



Still Playback (Pause)

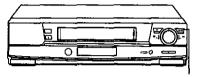
Press the PAUSE button on the remote control or PLAY/STILL on the VCR to still the tape during play.

The picture will "freeze". You may see some minor noise or interference on the screen. This is normal.

 To resume play, press the PLAY button or PAUSE (PLAY/STILL) button again.

Note: The sound is muted and cannot be heard during "Special Playback Effects".

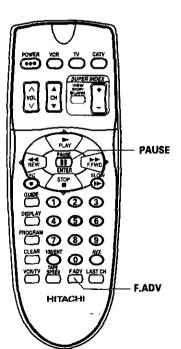




PLAY/STILL

Notes:

- After 1 minute in the PAUSE mode, the VCR automatically switches to the STOP mode to protect the tape.
- If noise bars appear on the TV screen during the PAUSE mode, first set the VCR to the SLOW mode by pressing the SLOW button during playback and then press the CH (▲/▼) button on the remote control to minimize the noise bars (see page 31).
- If the screen jitters during PAUSE, press the CH (▲/▼) button to minimize the jitters.

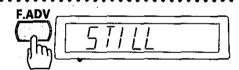


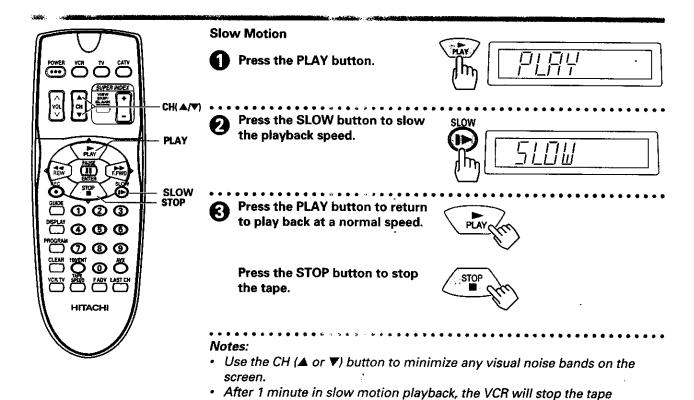
Frame Advance

Press the PAUSE button to stop the tape during playback.

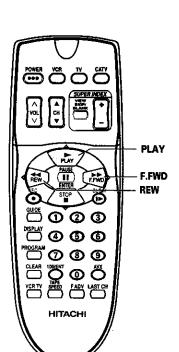


- Press the F.ADV button to view the picture one frame at a time.
 - Press the PAUSE button to resume play.





automatically to prevent damage to the tape and VCR.



Visual Search

This function let you search backward and forward through the videotape while viewing it.



Press the REW button to search in reverse.

Press the F.FWD button to search ahead.

 Press the PLAY button to return to normal playback.

Press REW or F.FWD and hold it; you can search backward or forward through the tape at a higher speed while viewing it.

- Press PLAY and REW, then hold REW for backward search at a higher speed.
- Press PLAY and F.FWD, then hold F.FWD for forward search at a higher speed.
- Release REW or F.FWD to return to normal playback.

■ Choosing a mode for audio playback

ENTER

CURSOR

GUIDE

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CLEAR 1800ENT @ O

VCR/TV PAR FADY LAST CH

HITACHI

The VCR records the same audio on both the Hi-Fi and linear tracks on the tape. The Hi-Fi sound is recorded on separate left and right stereo channels. Monaural sound is recorded on the linear track.

To enjoy Hi-Fi sound, connect your VCR to a stereo television or amplifier/receiver using the audio/video jacks (see page 56).

How to select playback audio

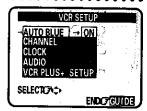






Press the ▼ cursor button to select the SETUP option, and then press the ENTER button.





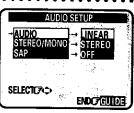
Press the ▼ cursor button to select AUDIO, and then press the ENTER button.





- Press the cursor button to select "HIFI" or "LINEAR".
 - Select HIFI to play back the sound recorded on the HiFi track and for normal use.
 The and indicators will light in the VCR's display panel.
 - Select LINEAR to play back the sound recorded on the linear monaural track. Also, If the audio sounds distorted or unusual or there is no audio, select LINEAR.



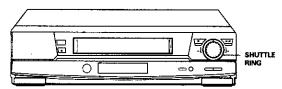


Press the GUIDE button to end the setting.



Using the shuttle ring

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

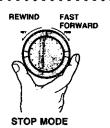


How to use the shuttle ring.

- Turn the shuttle ring during playback or still playback (pause).
 - As you turn the ring, you get different playback speeds and forward or reverse motion.
 - Try using the shuttle to explore backward and forward through your next video.



- Turn the ring while in the stop mode to fast forward or rewind the tape.
 - The tape continues to be wound even after you release the dial.



· Notes:

- If noise bars appear on the TV screen during the SLOW/STILL modes, turn and hold the shuttle ring in the SLOW position, then press the TRACKING (▲ or ▼) button on the VCR to minimize the noise bars. The noise bars are then eliminated automatically in the STILL mode.
- 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

PLAY BACK OPERATIONS



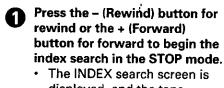
What is SUPER INDEX?

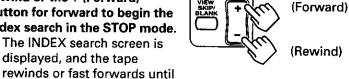
SUPER INDEX allows you to quickly search for a program or a scene you want to view or the point from which you want to start recording on tape, with the following four functions:

- · 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 indexina.



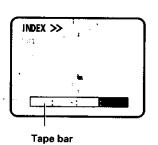


A black square in the tape bar shows the current tape position.

an index mark is detected.

When the VCR finds an index mark, it plays 15 seconds of the program that begins at that spot.

Note: Tape bar will not appear correctly if tapes which have scratches or are slack are being used.



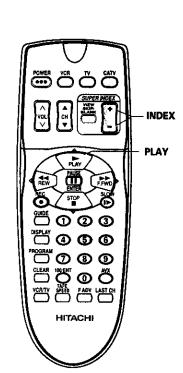
If this is the program you were looking for, press the PLAY button for normal playback.

· To stop the index search before an index mark is reached, press the STOP button.





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

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- 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

Press the (VIEW/SKIP/ BLANK) button in the STOP mode.

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.

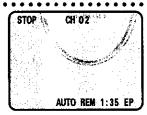


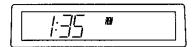


Tape bar Tape Remaining



PLAYBACK OPERATIONS





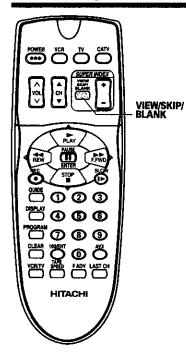
Note: Make sure that the tape is at the beginning of blank before you start recording or editing.





LICINIC THE "CLIDED INDEY" FEATURE

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 (VIEW/SKIP/

BLANK) button during rewind:

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

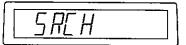
Hold down the (VIEW/SKIP/ BLANK) button during fast forward:

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

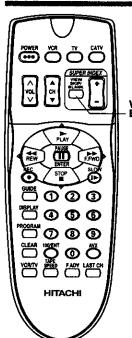
 When the button is released, the tape will rewind or fast forward again.



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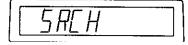
■ Skipping unnecessary scenes (SKIP PLAYBACK)



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.





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DISPLAY

CLEAR

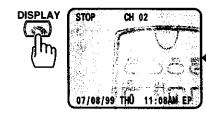
Notes:

on the tape.

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.

Press the DISPLAY button to see the clock.



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

DISPLAY

DISPLAY

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S. 12.

0:04:07 EP

Hour Minute Second

CH 02

AUTO REM 1:35 EP

STOP



· The linear time counter operates

The counter changes to 0:00:00 when the tape is ejected.

only if there is something recorded

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.

T-140 or T-160 tape T-160:

T-180: T-180 tape T-210: T-210 tape

AUTO: T-120 or shorter 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.



INDEX WITH THE TIME COUNTER.

To find specific sections on a tape

PLAY REW

STOP

CLEAR

REC DISPLAY

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Indexing with the Time Counter

You can set the time counter to memorize a certain point in the video programming, and you can return to that point automatically.

Press the DISPLAY button two or DISPLAY three times.

The counter will appear in the VCR's display.



Begin recording or playing back a tape.



At the point that you want to go back to, press the CLEAR button.
This resets the counter to 0:00:00.



Press the STOP button when you are done recording or playing back the tape.



Press the REW button to rewind the tape.

It will automatically stop at the spot where you cleared the counter in step 3.



 Press the PLAY button to watch the tape from the selected spot.

Notes:

- Press the DISPLAY button to turn the counter display off. The selected spot will stay in memory until you set a new one or until the tape is ejected.
- 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.

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

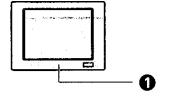
Copyright infringement warning

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

Cover the hole with cellophane tape.

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.

■ Basic recording steps



Note: You may use a blank tape or you may record over a previously recorded (erasable) tape.

Turn on TV and select the video channel (3 or 4).

Or, if you are hooked up with an audio/video cable, set the TV to AUX or VIDEO.





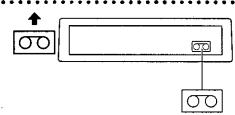


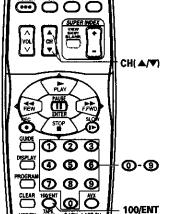
TAPE SPEED

2 Insert a blank or erasable tape. The power comes on

automatically and the tape indicator lights on the display.

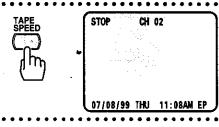
 If a cassette without its safety tab is inserted, playback starts automatically, and you cannot complete the record operation.





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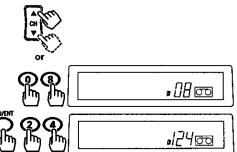
Press the TAPE SPEED button to select SP (standard play, for the best picture quality) or EP (extended play, for longest recording time on a single tape).



Press the CH (▲/▼) button or the number buttons to select the channel you want to record.

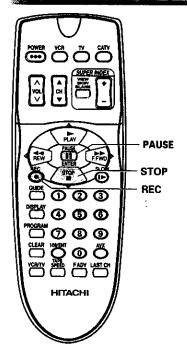
Example: Select channel 8.

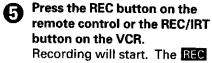
 100/ENT and ② and ③ for channel 124.



RECORDING

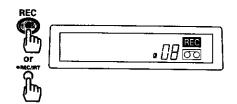
DECORDING A PROCRAM

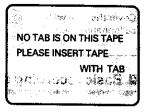




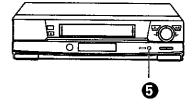
Recording will start. The REC indicator on the VCR will appear and REC/IRT button will light red. Notes:

- 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.









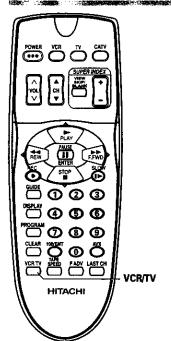
Press the STOP button to finish recording.





RECORDING A PROGRAM BEGORDING TIPE

■ To watch one program while recording another



Once you have set the VCR for recording, press the VCR/TV button.

The VCR indicator disappears, Now, you will be viewing through your TV only.



2 Switch channels using your TV controls or the VCR remote, if it's programmed to control your TV (see page 54).

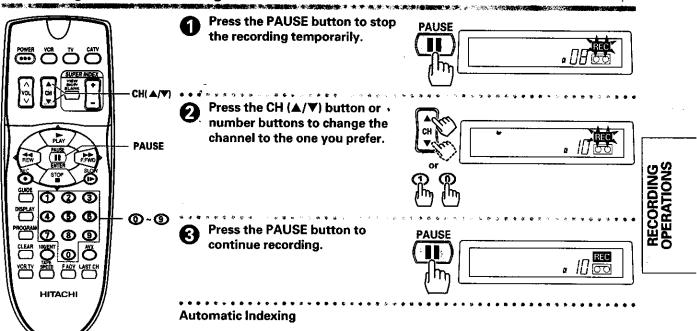




Notes:

- You can check on the recording by pressing VCR/TV again. This will switch
 you back to viewing through the VCR, and you'll see the program you are
 recording.
- If you're hooked up with an audio/video cable: Switch the TV from AUX or VIDEO mode back to the TV mode, then select the channels you want to watch, as described in Step ②. Switch TV back to AUX or VIDEO to monitor your recording.

■ To change the channel being recorded



Your VCR will automatically create an invisible "INDEX" mark every time you 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 34, "Locating the beginning of a recorded program (INDEX SEARCH)".

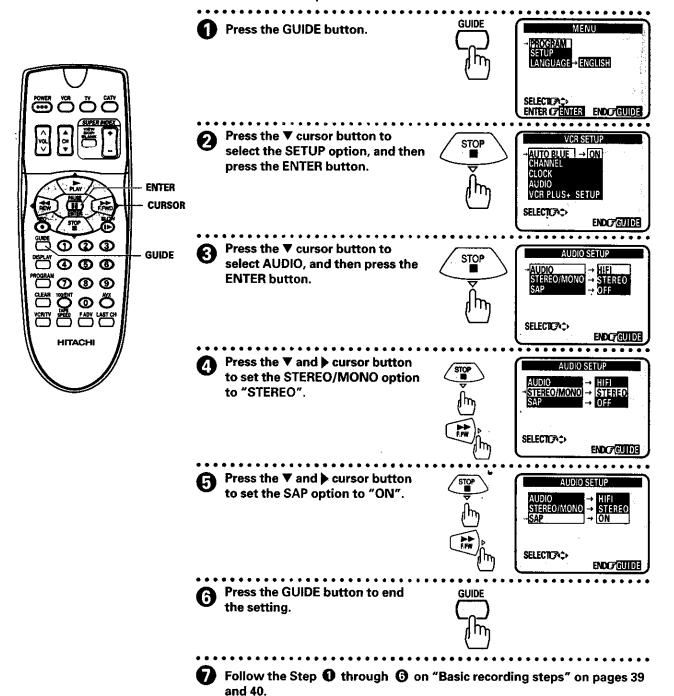


PECOPONIC APPROGRAM RECORDINGTIRS

■ 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.



Stereo vs. mono sound

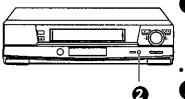
When you select the STEREO option in the initial setup operation, your VCR records in stereo any station that broadcasts stereo sounds. When a TV channel broadcasts in stereo, you'll see a stereo indicator on the TV screen. Set to MONO if the stereo signal is weak and the sound is too "noisy".

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



Using the Instant Recording Timer (IRT)

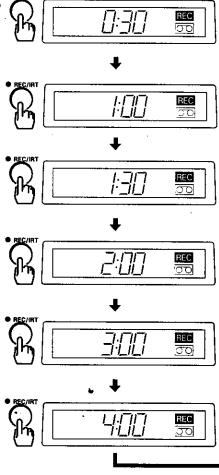
The Instant Recording Timer (REC/IRT button on the VCR) will let you make a simplified timer recording without having to use the programming timer. In order to set the IRT properly the clock must be set before starting.



Follow the steps 1 through 6 on "Basic recording steps" on pages 39 and 40.



- Press the REC/IRT button twice to indicate the recording time on the display.
 - · You may increase the recording time by 30 minutes each time you press the REC/IRT button.
 - · While you are recording, the remaining recording time is shown on the VCR display.
 - · At the end of your recording, the display will read "0:00", recording will stop automatically, and the VCR will turn itself off.



To stop recording while in the IRT mode:



Press the STOP button.

· This can be done either on the VCR or with the remote control.



Setting the VCR to record later

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

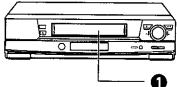
To re-record on a cassette which has its safety tab removed.



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.

Recording is even easier when have set up your channels for the VCR Plus+ system. Learn the basics of delayed recording in this section. Then read about the VCR Plus+ system beginning on page 47.

Before you begin

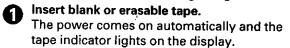


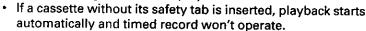
Assemble the information you need for timed recording:

- Be sure that the clock is set to the correct time
- Date and day of the program
- Starting time
- Ending time
- Channel to be recorded
- Blank or erasable videocassette (safety tab intact)



You set up the delayed recording using the on-screen Easy Guide System.







Turn on the TV and select the video channel (3 or 4).

Or, if you are hooked up with an audio/video cable, set the TV to AUX or VIDEO.





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PROGRAM

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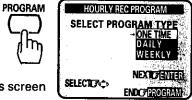
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Press the PROGRAM button twice for delayed recording.

Press the PROGRAM button once, the screen for VCR PLUS+ programming of the timer will appear.

Press the PROGRAM button twice, this screen will appear.



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.

Types of Delayed Recordings

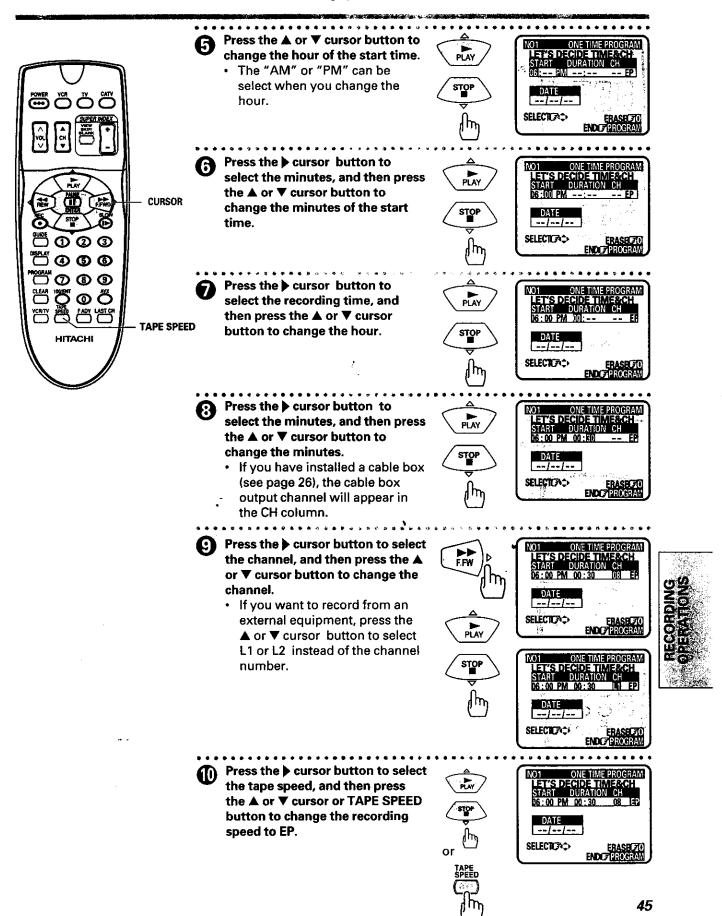
	i ypes of belayed necoldings
ONE TIME	Records one show at a particular date and time.
DAILY	Records a show at the same time every day of the week, Monday
	through Friday.
WEEKLY	Records a show at the same day and time every week

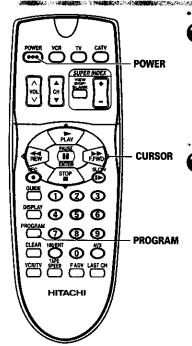


Press the ENTER button to bring up the screen for One Time Recording.

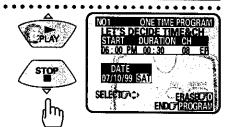






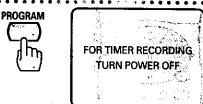


Press the cursor button to select the recording date, and then press the ▲ or ▼ cursor button to change the date.

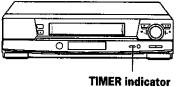


Press the PROGRAM button to set the program in memory.

> Note: If program is overlap, the VCR gives you an error message that disappears from the screen in about 5 seconds.



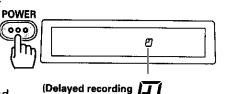




Press the POWER button to turn off Œ the VCR.

> The delayed recording indicator will display on the VCR and TIMER indicator will light up.

This tells you that the VCR will automatically record at the times and dates you have programmed.

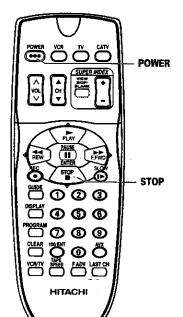


indicator Note: If a cassette has not been inserted or a cassette without safety tab has been inserted, the delayed recording indicator and TIMER indicator

will flash to warn you. The cassette without safety tab will be ejected automatically. Be sure to insert a cassette with safety tab intact.

The VCR will automatically give a warning display on the screen 5 minutes before timer recording is to start.

TIMER RECORDING STARTS IN 5 MINUTES PLEASE TURN POWER OFF

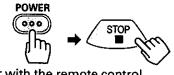


When you have set up all the timed recordings you want:

- Don't forget to load a videocassette (with the safety tab still attached) to record on.
- If you have installed a cable box (see page 26), turn on the cable box and select the channel you want to record on the cable box (08 in this case) before recording starts.

To stop recording while in the timed recording mode:

- Press the POWER button.
- Press the STOP button within 10
 - · This can be done either on the VCR or with the remote control.



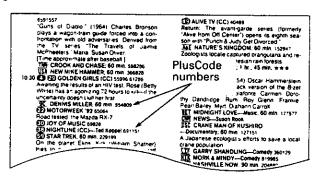
Important: Your timed recording settings take effect when you turn off the power on the VCR.



LICING THE VCD DLUC, CYCTEM FOR DECORDING

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.

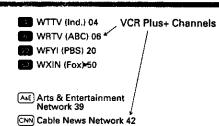
VCR Plus+® and PlusCode® are trademarks of Gemstar Development Corporation.

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.



DSC The Discovery Channel 37

VCR Plus+ Channel Number	Channel Number You Receive
04 (ind.)	04
06 (ABC)	06
20 (PBS)	08
42 (Cable News Network)	38



EASY DELAYED RECORDING WITH THE VCD DLUS & SYSTEM

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) please refer to page 26"cable box setup" in "First Time Setup" section. The following operation is not necessary.

■ VCR Plus+ setup — Channel setup

CH(A/∀)

ENTER

CURSOR

GUIDE

@-**9**

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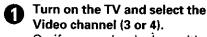
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The following shows the procedure you should perform when you are receiving the Cable News Network (channel 42 with the VCR Plus+ system) on channel 38.

Example				
VCR Plus+ Channel Number	Channel Number You Receive			
42	38			

Matching Broadcast CH Numbers to VCR Plus+ Channels



Or, if you are hooked up with an audio/video cable, set the TV to AUX or VIDEO.



Press the GUIDE button.
The main on-screen menu will appear on the TV screen.





Press the ▼ cursor button to select SETUP option, and then press ENTER button.



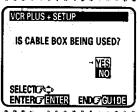


Press the ▼ button to select VCR PLUS+ SETUP, and then press the ENTER button.

Note: If you have set up the cable box, the following operation is not necessary.



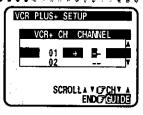
STOP



Press the ▼ cursor button to select "NO", and then press the ENTER button.

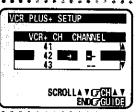
A small arrow points to a blank "--" in the CHANNEL column.

Note: If your broadcast channel number is the same as the VCR Plus+ Channel in your TV listing do not enter any number.



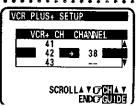
Press the CH (▲/▼) button to move up and down through the channel list until you reach VCR Plus+ CH42.

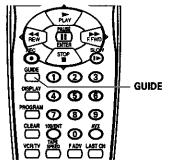




Press the number buttons to assign your broadcast channel number to the corresponding VCR Plus+ channel.







Repeat steps 6 - 7 for all channels that need to be assigned.

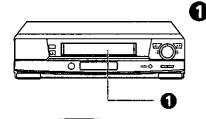
the setup procedure.

You are ready to begin delayed recording with the VCR plus+ system.

Press the GUIDE button to end



Using the VCR Plus+ system to record a program (by using TV screen)



(III)

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ENTER

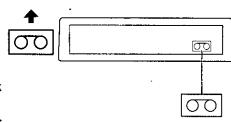
@~**®**

PROGRAM

CLEAR

Insert a blank or erasable tape.
The power comes on
automatically and the tape
indicator lights on the display.

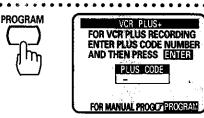
 When a cassette without its safety tab is inserted, playback starts automatically and VCR Plus+ recording won't operate.



Press the PROGRAM button to select VCR PLUS+ RECORDING.

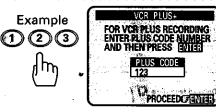
 If eight programs have already been stored in memory, "FULL" will flash in the VCR's display for about five seconds.

 The screen on the right will not appear at this time.



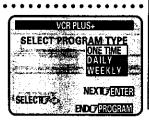
Press the number buttons to enter the PlusCode number of the program you want to record.

Note: This number can be up to eight digits. If you enter a wrong digit, press the CLEAR button and enter the correct one.



Press the ENTER button to store the PlusCode number in the VCR's memory.





Types of Delayed Recordings

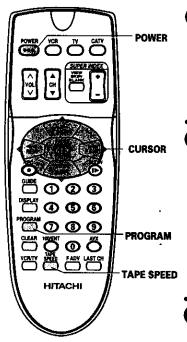
ONE TIME	Records one show at a particular date and time.			
DAILY	Records a show at the same time every day of the week, Monda			
	through Friday.			
WEEKLY	Records a show at the same day and time every week.			

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.



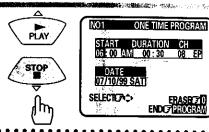


EACY DELAYED DECORDING WITH THE VCD DLUG SYSTEM



Press the ▲ or ▼ cursor button to select ONE TIME, DAILY or WEEKLY PROGRAM, and then press ENTER button.

Note: Programming does not take effect unless you select one of these options.



Press the ▶ cursor button to select tape speed, and then press the ▲ or ▼ cursor or TAPE SPEED button to choose recording speed SP (standard play) or EP (extended play).

play) or EP (extended play).

The screen will display all the details of the program you chose. Check the CH number to make sure it is the right one.



If not, you need to check your VCR Plus+ channel setup again.

- If you have installed a cable box (see page 26), the cable box output channel will appear in the CH column.
- Review the screen to be sure everything is set as you want, then press the PROGRAM button to complete your programming or continue with additional programs.

Note: If program is overlap, the VCR gives you an error message that disappears from the screen in about 5 seconds.





Press the POWER button to turn off the VCR.

The delayed recording indicator will display on the VCR and TIMER indicator will light up.

This tells you that the VCR will automatically record at the times and dates you have programmed.

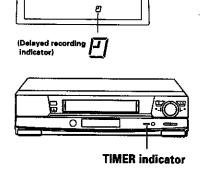


Note: If a cassette has not been inserted or a cassette without safety tab has been inserted, the delayed recording indicator and TIMER indicator will flash to warn you.

The cassette without safety tab will be ejected automatically. Be sure to insert a cassette with safety tab intact.

The VCR will automatically give a warning display on the screen 5 minutes before timer recording is to start.

TIMER RECORDING STARTS IN 5 MINUTES PLEASE TURN POWER OFF



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 (see page 26), 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

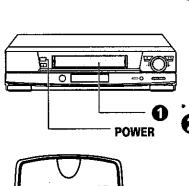
After entering a PlusCode number, check the information displayed with the "PROGRAM REVIEW". If there is (are) any unnecessary program(s), please cancel or correct it (them). Please refer to page 53, "Reviewing what you have programmed".

■ 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.



H

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POWER

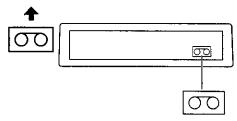
ENTER

0-**9**.

CLEAR

Insert a blank or erasable tape. The power comes on automatically and the tape indicator lights on the display.

 When a cassette without its safety tab is inserted, playback starts automatically and VCR Plus+ recording won't operate.



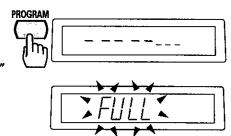
Press the POWER button to turn off the VCR.





The clock display switches to the indication shown on the right.

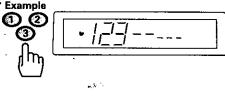
 If eight programs have already been stored in memory, "FULL" will flash in the VCR's display for about five seconds.



PROGRAM P

Press the number buttons to enter Example the PlusCode number of the program you want to record.

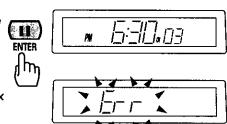
Note: This number can be up to eight digits. If you enter a wrong digit, press the CLEAR button and enter the correct one.



Press the ENTER button to enter the PlusCode number in the VCR's memory.

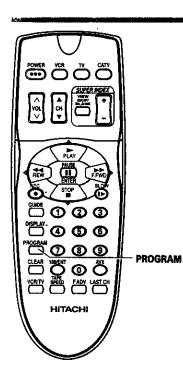
The start time and channel will appear. Check the details of the program.

- If you have installed a cable box (see page 26), the cable box output channel will appear in the channel display.
- If "Err" flashes for about five seconds, check the PlusCode number of the program and enter it again.





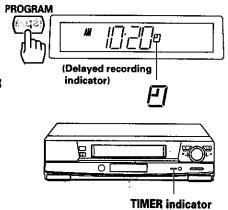
EACY DELAYED DECORDING WITH THE VCD DLUC, CYCTEM



Press the PROGRAM button to complete your programming or continue with additional programs.

The delayed recording indicator will display on the VCR and TIMER indicator will light up.

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 and TIMER 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 (see page 26), 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 53, "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

ENTER

GUIDE

CURSOR ▼

PROGRAM

PAUSE

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HITACHI

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8 0 0

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.



Press the GUIDE button.

The main on-screen menu will appear on the TV screen.





Press the ENTER button to select the PROGRAM MENU.





Press the ▼ cursor button for the PROGRAM REVIEW option, and then press the ENTER.

This brings up the screen setting for the first program.

If you want to clear this program, press the ① button to remove this program.





- Each time pressing the (II) button to cycle through all the programs you have preset.
 - The screen will display the next program, if there are more, or it will switch back to the main menu.





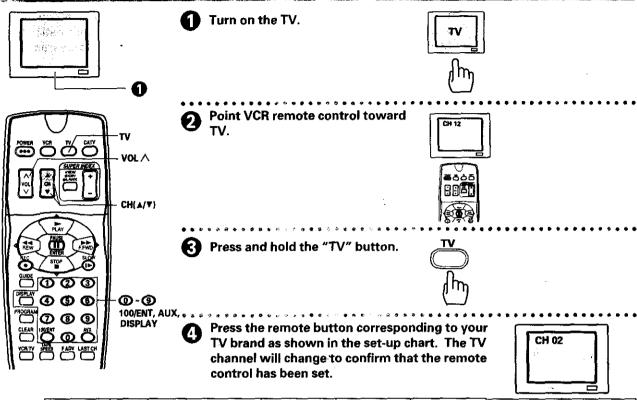
Press the PROGRAM button to end.



* RECORDING OPERATIONS

PROGRAMMING THE VCR. REMOTE TO CONTROL YOUR TV

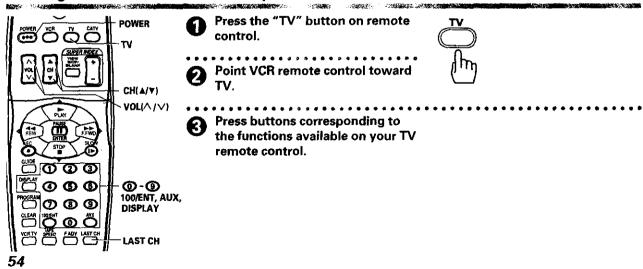
The VCR remote control can be programmed to control many TV brands that are remote controlled.



TV Brand	Press "TV" and this remote button	TV Brand	Press "TV" and this remote button	TV Brand	Press "TV" and this remote button	TV Brand	Press "TV" and this remote button
Hitachi	1	Gold star 1	6	Panasonic 1	CH▲	HITACHI 2	DISPLAY
Zenith	2	Toshiba	7	Mitsubishi	СН▼		
Sony	3	Gold star 2	8	JAC	100/ENT		
Magnavox	4	Panasonic 2	9	Sharp 1	VOL (UP)		
Sanyo	5	RCA	0	Sharp 2	AVX		

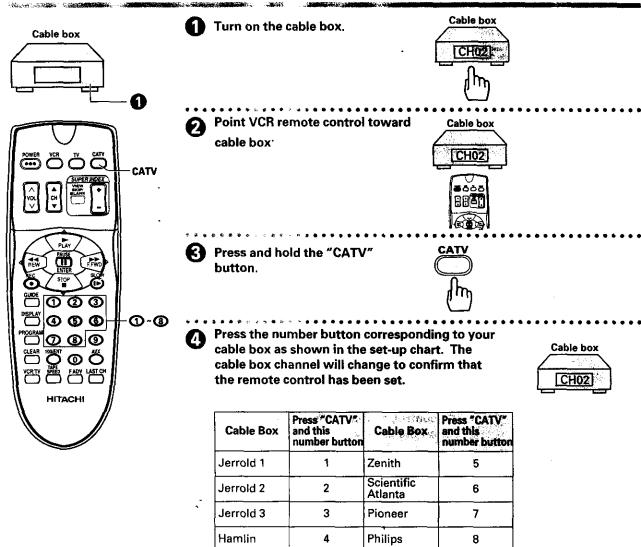
Note: If your TV brand is not listed on the Set-Up Chart, try all the buttons listed in the chart until the TV changes channels. If the TV channel does not change, you won't be able to program the remote for your TV.

Using the VCR remote to control your TV



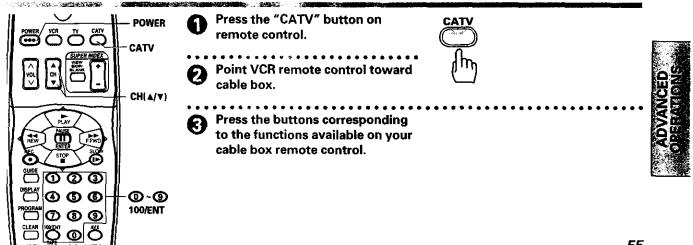
MING THE VCR REMOTE TO CONTROL VOLID CA

The VCR remote control can be programmed to control many cable boxes that are remote controlled. You can easily change channels.



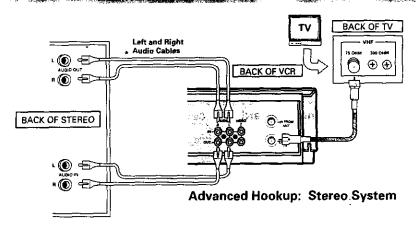
Note: If your cable box is not listed on the Set-Up Chart, try all the buttons listed in the chart until the cable box changes channels. If the cable box channel does not change, you won't be able to program the remote for your cable box.

Using the VCR remote to control your cable box



STEREO SYSTEM WITH

Hookup



* PURCHASED SEPARATELY

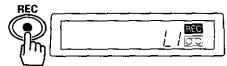
When your VCR is connected to a stereo system, you can:

- 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
- Use the VCR as an extra audio tape deck for dubbing.

■ 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 42, of "RECORDING OPERATIONS" section, "Stereo vs. mono sound".
- Select VCR recording speed (SP or EP) as shown on page 39, of "RECORDING OPERATIONS" section, "Basic recording steps".
- Press the AVX button on remote control, so that L1 (line) appears on the display. STOP REC 0 0 0 Turn on stereo, and start the **7 7 9 9** selection you wish to record. 000 @ Ö AVX **STEREO** Press the REC/IRT button on VCR HITACHI or REC button on the remote control to start recording.



LINE 1

Press the STOP button to stop recording.



CODVINIC TAREC FROM A CAMCORDED

■ 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 the front of the VCR.

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

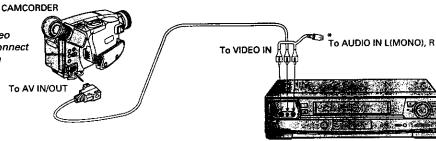
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■ To copy from a camcorder

– PAUSE – STOP REC

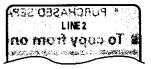
- AVX

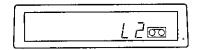
BEFORE YOU BEGIN...

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

Press the AVX button twice on remote control, to display L 2 (line) on the TV display.







Press the REC, then PAUSE buttons on the VCR remote control. The VCR will go into Record/Pause.





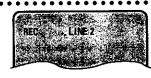
Press the PLAY button on the camcorder. You will see the camcorder tape being played on the TV.





- When you see the part of the Camcorder tape you wish to copy, press the PAUSE button again to release pause and start copying the camcorder tape.
 - Press the STOP button to finish recording.







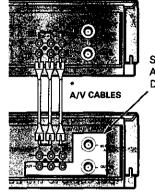


CODVINIC EDOM ONE VCD TO AMOTHED VCD (DLIDDING)

■ Hookup

If you have two VCRs, you may use one VCR to record a tape that is being played back in the other VCR.

VCR-2 (Playback VCR)



See the Basic or Advanced Hookup Diagrams for VCR and TV



RECORD **6VCH**

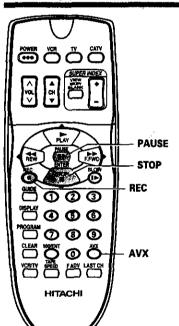
Insert a blank tape

VCR-1 (Recording VCR)

Advanced Hookup: Two VCRs

* PURCHASED SEPARATELY

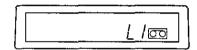
■ To copy from one VCR to another VCR



Press the AVX button on the remote control of VCR-1 so that L1 (line) appears in the display.

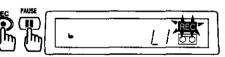




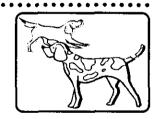


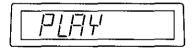
Press the REC, then PAUSE buttons on VCR-1. The VCR'will go into Record/Pause.





Press the PLAY button on VCR-2. You will see the taped program being played on the TV.





When you see the part of the program you wish to record, press the PAUSE button on VCR-1 again to release pause and start recording.



· Press the STOP button to finish recording.

■ 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.).			

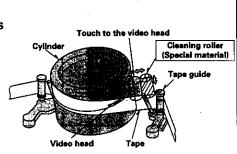
■ Maintenance

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.

Auto Head Cleaning System

This system cleans the video heads automatically when a cassette is inserted and ejected or the VCR is turned on or off while a cassette is in the VCR, to prevent dirt from accumulating on the heads.

Note: Mechanical sound is heard during head cleaning.



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.







CHIDE INDICATIONS IN VCD DISDLAY AND OSD SCREEN

■ Guide indications in VCR display and OSD screen

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

OSD	Indication	When it appears	Meaning and troubleshooting		
	(flashes for about 5 seconds)	When programming the timer	The VCR clock has been set to ":". Set the time and program the timer.		
·	(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.		
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.		
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.		
	(flashes 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.		

Technical specifications

Format:

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)

VHS

Canada: 178 channel tuning ability* (122 cable

channels)

Type:

Auto programming frequency synthesis

Power Input: Power Consumption:

AC 120V 60 Hz

18W nominal 2.0W (Standby mode)

Cabinet Size:

17-1/8" (W) x 3-7/8" (H) x 11-1/8" (D)

43.5 cm (W) x 9.9 cm (H) x 28.2 cm (D)

Weight:

8.8 lbs. (4.0 kg) -4°F to 131°F

Storage Temperature:
Operating Temperature:

41°F to 104°F

Accessories:

1 coaxial cable (Part No. EW10251)

1 remote control unit (Part No. HL11131) for

VT-UX6430A, 2 AA batteries

1 remote control unit (Part No. HL11132) for

VT-UX6440A, 2 AA batteries

* 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

DIAL TOLL FREE

7 days a week, 24 hours a day

1-800-HITACHI

(1-800 448-2244)

You must state your zip code when calling

In Canada

MONTREAL

514-956-9882

