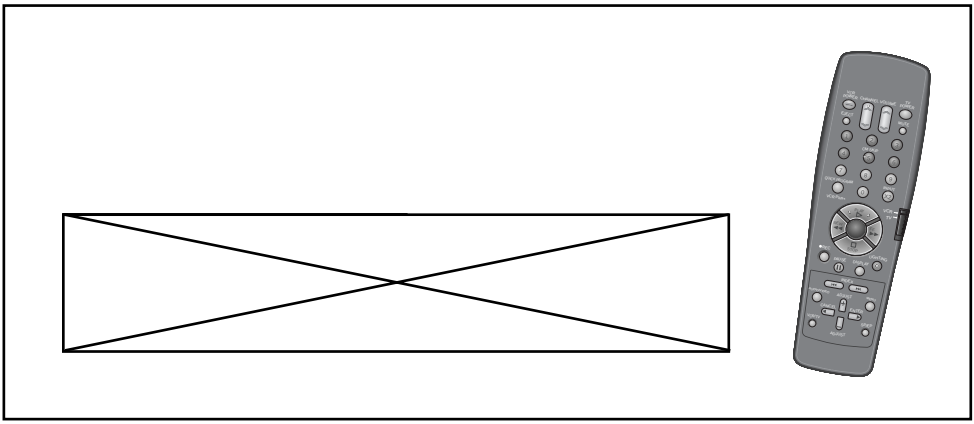
MITSUBISHI
THE BIG SCREEN COMPANY™

VIDEO CASSETTE RECORDER OWNER'S GUIDE



MODEL HS-U577

As an ENERGY STAR® Partner, Mitsubishi Digital Electronics America, Inc. has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.

VCR Plus+® and PlusCode® are registered trademarks of Gemstar Development Corporation. The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.

With VCR Plus+C3® system, this video cassette recorder can automatically select the appropriate channel on your compatible cable box or satellite receiver. C3 and VCR Plus+C3® are trademarks of Gemstar Development Corporation.

This Video Cassette Recorder is based on the VHS format. Only video cassette tapes with the VHS mark may be used with this model.

Special Features HS-U577

SMART:

- Program Conflict Warning
- VHS Hi-Fi audio record/ playback
- VCR Plus+® C3 with cable converter control
- Satellite Receiver Control

FAST:

- Alfa 500 Precision High Speed Mechanism with for 500x rewind/fast forward speed
- Rental Xpress™ – Auto rewind, eject and power off for a fast movie return

EASY:

- ViewPoint® Menu Operating System
- OTR² Advanced One Touch Recording with delayed start time
- Auto Clock Set

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

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.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

IMPORTANT:

RECORDING OF COPYRIGHTED TELEVISION PROGRAMS MAY VIOLATE COPYRIGHT LAW.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CAUTION:

TO PREVENT ELECTRIC SHOCK HAZARD, DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

NOTE TO CATV SYSTEM INSTALLER:

THIS REMINDER IS PROVIDED TO CALL THE CATV SYSTEM INSTALLER’S ATTENTION TO SECTION 820-40 OF THE NEC WHICH 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.

SHORTCUTS

To **connect** your VCR, go to page 4.

To **play a tape**, go to page 10.

To **record a program**, go to page 22.

To learn about **Advanced Features**, go to page 39.

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IMPORTANT SAFEGUARDS

Please read all these instructions carefully regarding your VCR before you begin operating it. Follow all warnings and instructions marked on the VCR. Thank you.

1 Read Instructions
All the safety and operating instructions should be read before the product is operated.

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

3 Heed Warnings
All warnings on the product and in the operating instructions should be adhered to.

4 Follow Instructions
All operating and use instructions should be followed.

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

6 Attachments
Do not use attachments not recommended by the product manufacturer as they may cause hazards.

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

8 Accessories
Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

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

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

11 Power Sources
This 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 product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

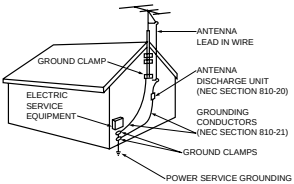
12 Grounding or Polarization
This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

13 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 product.

14 Outdoor Antenna Grounding
If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges.

Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard 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.

EXAMPLE OF ANTENNA GROUNDING



NEC – NATIONAL ELECTRICAL CODE

15 Lightning
For added protection for this 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 product due to lightning and power-line surges.

16 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 such power lines or circuits as contact with them might be fatal.

17 Overloading
Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in fire risk or electric shock.

18 Object and Liquid Entry
Never push objects of any kind into this 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 product.

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

20 Damage Requiring Service
Unplug this 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 product.
(c) If the product has been exposed to rain or water.
(d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
(e) If the product has been dropped or damaged in any way.
(f) When the product exhibits a distinct change in performance – this indicates a need for service.

21 Replacement Parts
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

22 Safety Check
Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

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

CONDENSATION
Leave the VCR on, without a tape in it, for 2 hours if the VCR has been exposed to sudden changes in temperature. Sudden temperature changes cause moisture to form on the metal parts inside the VCR. This moisture can cause the tape to stick and damage the head. Leaving the VCR on for a 2 hour period will dry the inside of the VCR.

PROTECT THE POWER CORD
Do not damage the power cord. Damage to the power cord may cause a fire or shock hazard. When unplugging the power cord, please hold it by the plug and remove it carefully.

DO NOT PLACE HEAVY OBJECTS ON THE RECORDER
Heavy objects placed on the recorder will cause damage.

WHEN NOT IN USE
When you finish operating the recorder, always unload the cassette and turn OFF the VCR POWER.

CARE OF THE VIDEO CASSETTE TAPES
- Avoid violent vibration or shock.
- Do not place in a location where strong magnetic fields exist (near a motor, transformer or magnet).
- Never place or store in direct sunlight.
- Avoid dusty places.
- Place the cassette in the cassette case and store vertically.
- Never store tape in a high humidity location.

INFORMATION
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, try to correct the interference by one or more of these measures:
- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a different circuit than the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

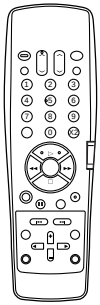
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult the dealer or an experienced radio/TV technician for additional suggestions. You may find this booklet prepared by the Federal Communications Commission helpful: How to Identify and Resolve Radio-TV Interference Problems. This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

Hooking Up Your VCR

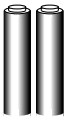
Unpacking Your VCR

As you unpack your new VCR, please make sure the following items are included:

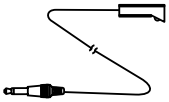
- **Remote control**



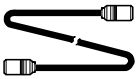
- **2 "AA" size batteries**



- **1 IR emitter**



- **1 Coaxial cable**



- **Registration card**

IMPORTANT

Never place any heavy objects on top of the VCR. Do not place the VCR on top of the television because of its instability.

Choosing a Hookup

The connections shown in this book are general. Individual televisions, stereo systems and satellite receivers can vary from those shown here. The first diagrams show connections for common equipment. Then, if you are connecting equipment such as a satellite receiver or a Home Theater receiver, you will also use those diagrams after you have connected the common equipment.

IMPORTANT

To maximize your system for its best performance, your dealer can help you customize these hookups and sell you any additional connection accessories that may be necessary to match your particular equipment and antennas.

1 Make a list of each piece of equipment that you want to hook up.

2 If you are connecting several pieces of equipment, you may be using more than one of these diagrams. Using your list, find EACH of the diagrams you will need to connect all of your equipment. For example, to hook up this VCR, a TV, a cable box, and a Home Theater receiver, you will use Cable System with Cable Box, and Connecting a Home Theater receiver.

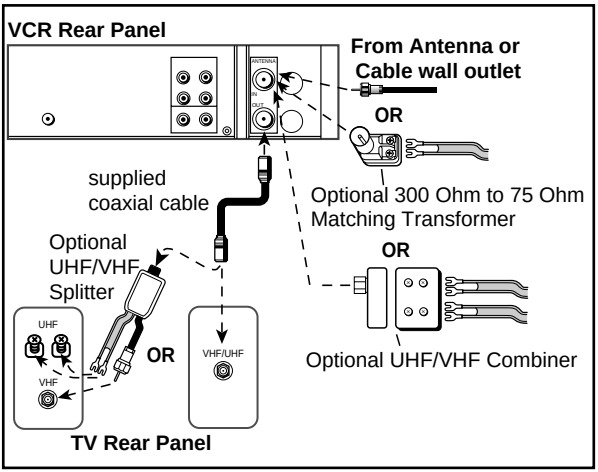
3 If your TV has audio and video inputs, use the diagrams on page 6 in addition to the connections on the next page.

Hooking Up Your VCR

IMPORTANT

You must use one of the connections shown on this page in order to record television or cable programs.

Antenna or Cable System without Cable Box



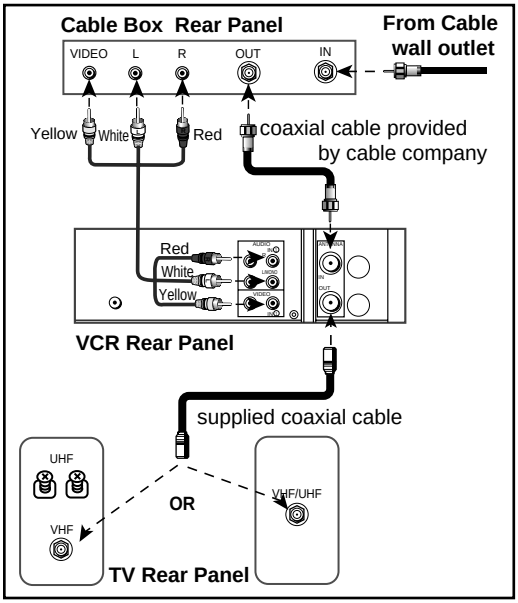
Connecting Antenna or Cable

1 Connect antenna or cable from wall outlet to ANTENNA IN of the VCR.

2 Connect VCR ANTENNA OUT to the TV's Antenna jacks (varies by TV).

3 If your TV has audio video inputs, continue with the connections on the next page. If not, plug in power cords of VCR and TV.

Cable System with Cable Box



Connecting Cable and Cable Box

1 Connect cable from wall outlet to CABLE IN on the cable box.

2 Connect OUT (or OUT TO TV) on the cable box to ANTENNA IN on the VCR.

3 Connect ANTENNA OUT on the VCR to the TV's antenna jacks (varies by TV).

4 If your TV has audio video inputs, continue with the connections on the next page. If not, plug in power cords of VCR, TV, and cable box.

5 See page 9 for IR Emitter connection.

If your cable box has audio and video outputs, follow the additional directions below. You may need to purchase additional sets of audio/video cables for this hookup.

6 Connect the red and white cable to the AUDIO IN R (right) and AUDIO IN L (left) on the VCR. Connect the other end to the cable box's AUDIO OUT RIGHT and AUDIO OUT LEFT.

7 Connect the yellow video cable to VIDEO IN on VCR. Connect the other end to VIDEO OUT on the cable box.

IMPORTANT

Your TV Owner's Guide may have additional suggestions for antenna/cable hookups.
If your TV has more than one antenna jack, ask your Mitsubishi dealer for advice on additional accessories.

Connections to TV with Audio Video Inputs

Because you purchased a Hi-Fi VCR, you will want to take advantage of its superior sound capability and connect it to a stereo TV system with audio and video inputs. This connection also helps maintain the best picture quality.

1. Connect the red and white audio cable to AUDIO OUT R (right) and AUDIO OUT L (left) on the VCR. Connect the other end to the TV's AUDIO IN RIGHT and AUDIO IN LEFT. Match the colors of the connectors to the cables.
2. Connect the yellow video cable to VIDEO OUT on VCR. Connect the other end to VIDEO IN on the TV.
3. Set the RF Converter to OFF. See page 47 for instructions on this setting, which can be done at a later time.

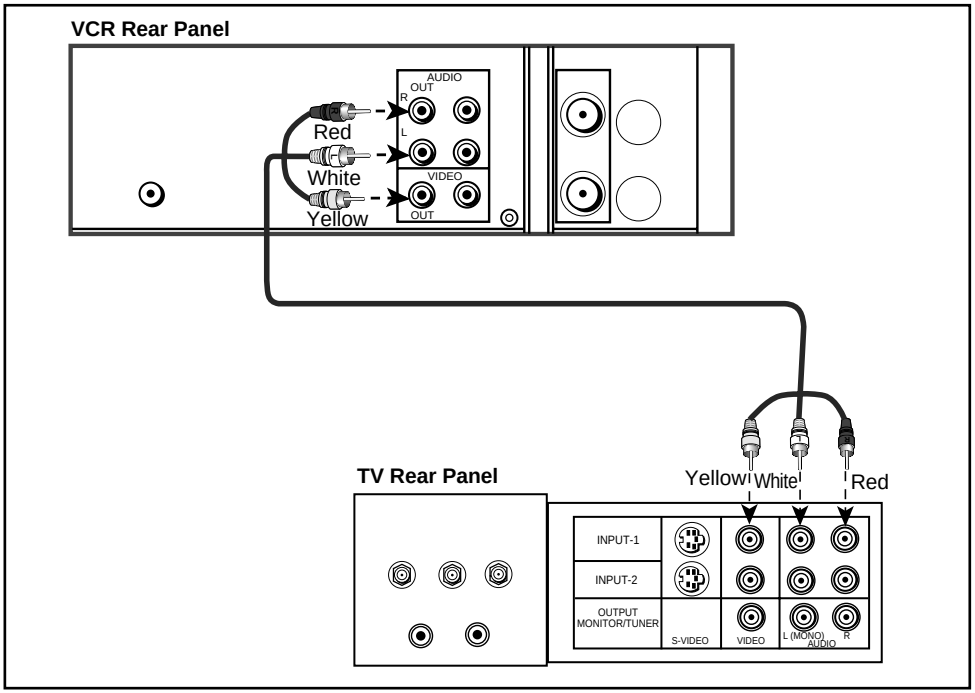
IMPORTANT

You may need to purchase an audio video cable for this hookup.

Your TV Owner's Guide may have additional suggestions for audio video hookups.

To connect your VCR to a mono (non-stereo) TV, connect only the white AUDIO OUT L of the VCR and the white AUDIO INPUT of the TV. Since the TV is not stereo, you cannot take advantage of your VCR's Hi-Fi stereo sound.

If you have an older TV without audio video inputs, simply connect only the antenna or cable as shown on the previous page.



Connections to Satellite Receiver

If you have an RCA DSS®, Sony DSS®, Toshiba DSS®, Panasonic DSS®, Hughes DSS®, PRIMESTAR®, or DISH Network™ satellite system, you can connect the satellite receiver to your VCR and then set up the VCR to change the channels of the satellite receiver. This will allow you to program your VCR to make unattended recordings from several different satellite channels.

1 Connect the red and white audio cable to AUDIO OUT R and AUDIO OUT L on the satellite receiver. Connect the other end to the AUDIO IN R and AUDIO IN L on the back of the VCR. Match the colors of the connectors to the cables.

2 Connect the yellow video cable to VIDEO OUTPUT on the satellite receiver. Connect the other end to VIDEO IN on the back of the VCR.

3 See page 9 for IR Emitter connection.

connecting both a satellite receiver and a cable box with audio video outputs

1 Connect the satellite receiver to the audio video inputs on the back of the VCR as shown.

2 Connect the cable box to the audio video inputs on the front of the VCR.

IMPORTANT

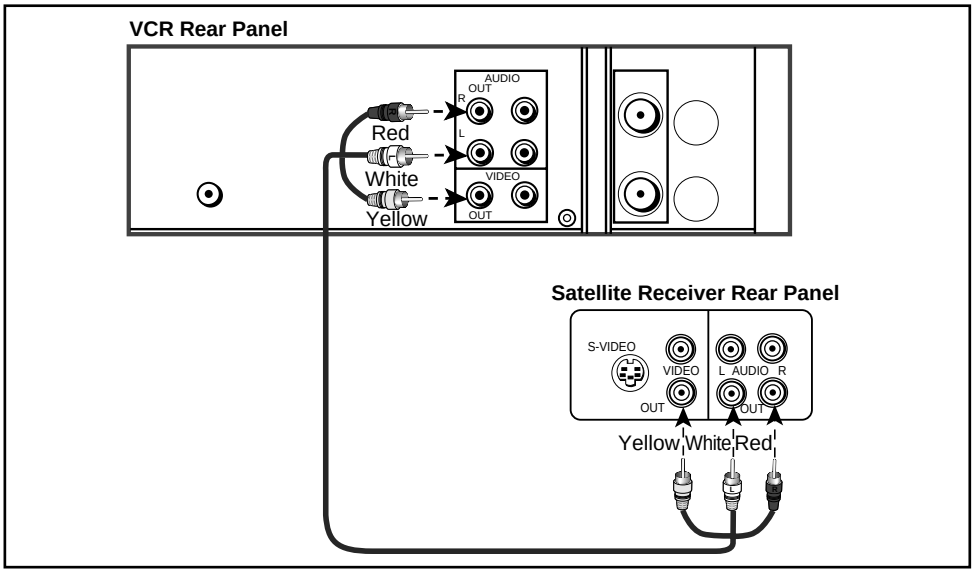
You cannot connect both a satellite receiver and a digital cable box.

You may need to purchase an audio video cable for this hookup.

You will have to turn on your VCR to watch the video or hear the audio from the satellite receiver.

Refer to your Satellite Receiver Owner's Guide for Satellite dish to Satellite receiver connections, as well as other possible video connections to your TV.

DSS® is a registered trademark of DirecTV, Inc.
PRIMESTAR® is a registered servicemark of PRIMESTAR Partners LP.
DISH Network™ is a registered trademark of EchoStar Communications Corp.



Hooking Up Your VCR

Connections to Home Theater Receiver

You may wish to connect your VCR to a Home Theater Receiver so that you can take advantage of the Surround Sound audio recordings that are common with many movies. Home Theater Receivers often will control both the sound that is heard from the speakers and the picture shown on your TV. Below is the basic connection between your VCR and Home Theater Receiver. If you use this connection, you will not use **Connections to TV with Audio Video Inputs**.

1 Connect the red and white audio cables to AUDIO OUT R and AUDIO OUT L on the VCR. Connect the other end to the VCR 1 AUDIO INPUT R and AUDIO INPUT L on the Home Theater Receiver.

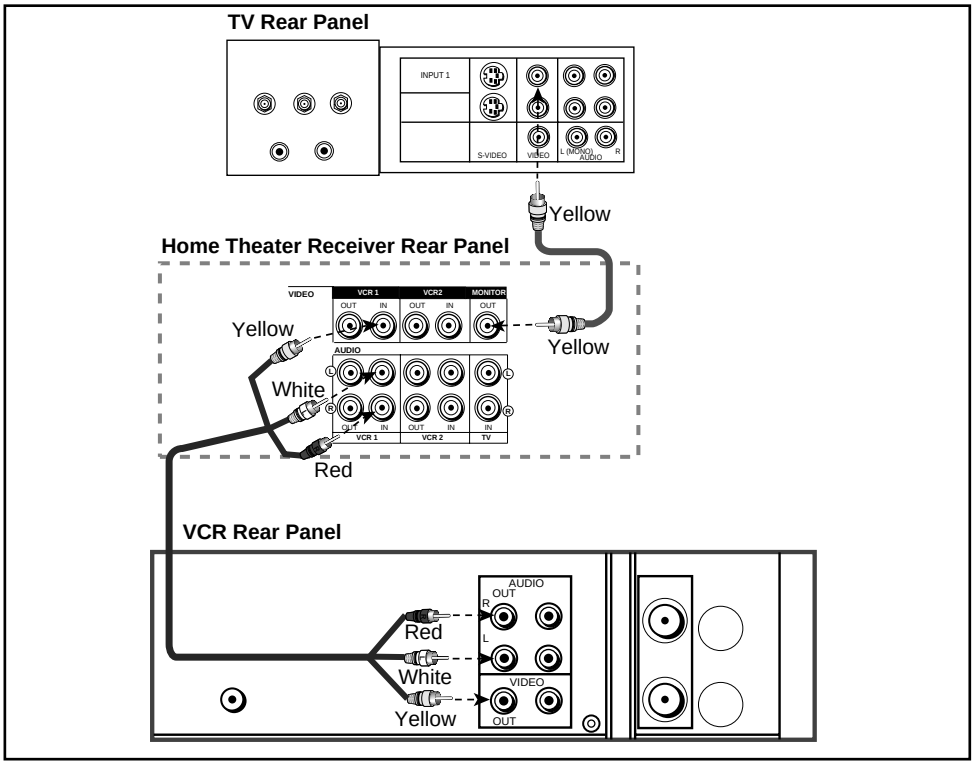
2 Connect a yellow video cable to VIDEO OUT on the VCR. Connect the other end to the VCR 1 VIDEO INPUT on the Home Theater Receiver.

3 Connect a yellow video cable to the MONITOR OUTPUT of the Home Theater Receiver. Connect the other end to the VIDEO INPUT on the back of the TV.

4 See your Home Theater Receiver Owner's Guide for information concerning audio connection between TV and Home Theater Receiver, or additional hookups and operations.

IMPORTANT

You may need to purchase two sets of audio video cables for this hookup.



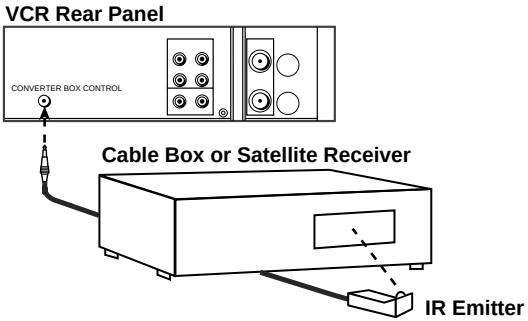
Connections to IR Emitter

Your VCR will be able to send remote control channel changing commands to your compatible cable box or satellite receiver. The VCR uses the IR Emitter to send these commands in the same way as when you use the hand held remote that came with the cable box or receiver.

1. Connect the supplied IR Emitter to CONVERTER BOX CONTROL on back of the VCR.
2. Run the wire under or along side the cable box or satellite receiver and place the end in front of the cable box and/or satellite receiver.
3. Use the double stick tape to secure the end of the emitter in the proper place.

IMPORTANT

If you connect both a cable box and satellite receiver, place the IR Emitter to face the remote control window (sensor) in the front of both. If you cannot place it this way, you can purchase a dual IR Emitter from your Mitsubishi dealer.



Playback

Setting Up Your VCR

The first thing you need to do is set up your VCR so that you can see the picture coming from the VCR. It's important to take a few minutes to set up your VCR correctly before you try to use it. Based on your type of TV, choose one of the following:

TV with Audio/Video Inputs

1 Turn on your TV and switch it to the correct external input. For most Mitsubishi TVs, this means pressing the TV's INPUT button until you see the words **Ext-1** or **Input-1** on the screen. If you do not have a Mitsubishi TV, please refer to your TV Owner's Guide for this procedure.

2 Turn the VCR on by pressing POWER.

3 You are now watching the VCR's picture. To go back to viewing the picture from the TV, press the TV's INPUT button to go back to the previous ANTENNA input position.

4 Later, you should turn the RF converter OFF by following instructions on page 47.

If your system includes a home theater receiver or an A/V receiver, refer to your home theater receiver's owner's guide.

TV without Audio/Video Inputs

If your TV does not have separate audio/video inputs, then your VCR will need to convert the VCR's picture to channel 3 or 4. This is called the video channel. The factory has already selected channel 3; however, if it is a broadcast channel in your area, then you will need to change this to channel 4. To make this change:

set up

1 To choose channel 4; with VCR power OFF, press CHANNEL ∧ and REC SPEED on the front panel at the same time. **CH4** will display on the front panel and the VCR will send signals on channel 4.
If needed, to return to channel 3; with the VCR turned OFF, press CHANNEL ∨ and REC SPEED on the front panel at the same time. **CH3** will display.

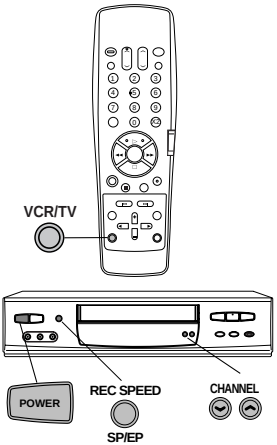
2 Turn the VCR on by pressing POWER.

operating

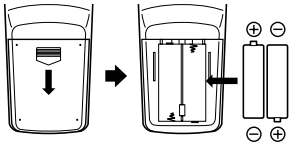
3 Check to see if the VCR light on the front panel display is lit. If it is not, press VCR/TV on the remote control until the VCR light appears on the front panel. This light must be on when you watch a video tape or use the VCR menus. The VCR light will turn on automatically when you play a tape or use the VCR menus when the RF converter is set to ON. See page 47.

4 Turn on the TV and change the TV to the video channel (3 or 4). You are now watching the VCR's picture.

To watch a channel that is different than the channel your VCR is recording, the VCR light must be off. The VCR/TV button turns this light on and off.



Operating Your Remote Control



Installing the Batteries

1 To remove the back cover, press the ridged area gently, then push the cover in the direction of the arrow and lift.

2 Load the batteries, making sure the polarities (+) and (–) are correct. This is marked inside the battery compartment.

Next, you need to tell the remote control to operate the VCR, not the TV.

Operating the VCR with the Remote Control

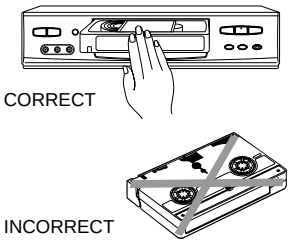
The HS-U577 has two VCR remote control operational settings: VCR-A and VCR-B. The HS-U577 is pre-set to VCR-A setting. See page 50 for information about VCR operational setting.

1 Set the VCR/TV slide switch on the remote control to VCR position. This “tells” the remote that you want to control the VCR.

2 Press VCR/TV and the number button “1” on the remote control at the same time. Now your remote is ready to operate your HS-U577.

Loading a Tape

Tapes can be loaded into your VCR as long as the VCR is plugged in. Even when the VCR POWER is off, loading a tape will automatically turn the VCR on. Use only tapes that have a VHS or S-VHS label.



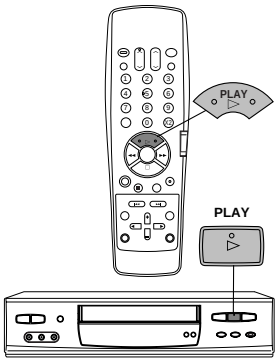
1 Hold the tape so that the long narrow edge with the contents label faces you. The other edge is hinged and should face the VCR. The plastic window that shows the videotape should face up.

2 Gently insert the tape evenly into the cassette slot until the VCR automatically takes it in.

If the VCR will not automatically take the tape in, press EJECT and try again.

Your VCR will eject the tape if it is loaded improperly. If the VCR ejects the tape; remove the tape, check to see that the contents label is facing you, that the geared tape reels are facing down, wait a few seconds, and try again.

Playing a Tape



1 Press PLAY on the front panel or the remote control.

The VCR will automatically play the tape at the correct speed. When the VCR reaches the end of the tape, it will automatically rewind to the beginning of the tape and stop.

You can stop playing by pressing STOP.

You can play back a tape recorded in S-VHS format with standard VHS resolution (S-VHS quasi playback). This feature functions only during playback. You cannot obtain the original resolution of S-VHS.

Depending on the tapes you are using, some interference may appear on the screen during S-VHS quasi playback.

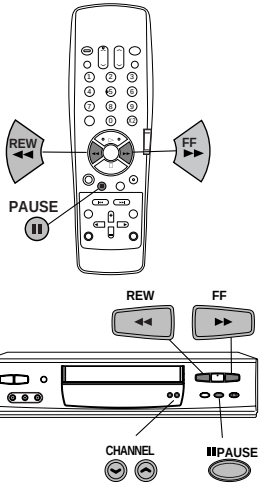
Using Basic Playback Controls

Rewinding a tape

While the tape is stopped, press REW on the remote control or on the front panel.

Fast forwarding a tape

While the tape is stopped, press FF on the remote control or on the front panel.



Speed Search with picture

While the tape is playing press FF for forward speed search with picture or press REW for reverse speed search. See page 41 for additional information on searching techniques.

Pausing a tape

While the tape is playing, press PAUSE on the remote control or on the front panel to freeze the picture on the screen.

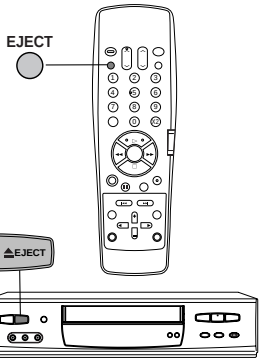
Press PAUSE a second time to return to normal play.

If you leave the VCR in pause for more than 5 minutes, the VCR will automatically stop to prevent damage to the tape.

Controlling Vibration During Still Frame

If the picture vibrates during still frame, press the CHANNEL buttons on the front panel until the picture is steady.

Unloading a Tape



1 Press EJECT on the front panel or on the remote control. If the VCR POWER is off, the VCR will turn on, eject the tape, then turn off.

2 Remove the tape.

Using repaired tapes

We recommend that you take any broken or torn tapes to a professional for repair. If you repair a torn tape with improper materials, you could damage your VCR when you play the tape.

Head cleaning

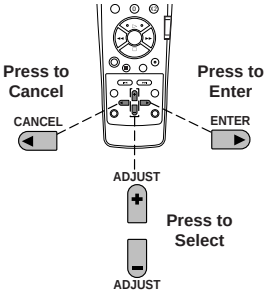
Your VCR automatically cleans the head and the drum of the VCR whenever you load a tape. If you see “noise” or snow when playing a tape, eject the tape, re-load the tape, then wait 3 or 4 seconds. Repeat this process several times to improve the picture.

Setting Up Your VCR

Your VCR comes with Mitsubishi's exclusive ViewPoint® on-screen operating system. This system has been developed to simplify the operation of your VCR with clear, understandable language and design.

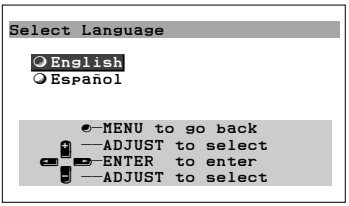
Before your VCR can receive television channels or you can program your VCR to record, you need to memorize all of the channels you can receive into your VCR and set the clock. Additionally, if you are using a satellite receiver, you need to do a first time setup to memorizing satellite brand code. Fortunately, your VCR makes this an easy process with our menu system.

When using the on-screen menus, use the ADJUST buttons to move the highlight bar up or down and to change the setting of selected features. Press the ENTER button to enter a selection or adjustment. Press the CANCEL button to cancel or clear a setting.



Selecting the On-screen Language

You can set your VCR to display on-screen messages, menus, and functions in English or Spanish. You will do this the first time you use the menus or set any audio and video functions.



1. Make sure you are viewing the picture coming from your VCR. Press MENU on the remote control. If this is the first time the menus have been used, you will see the menu for selecting the on-screen language.
2. Press ADJUST buttons on the remote control to highlight the desired language. The ADJUST + button moves upward; the ADJUST – button moves downward.
3. Press ENTER on the remote control. The menu will change to the VCR Main Menu.
4. Press MENU to exit the menus.

IMPORTANT

The Select Language menu is unique. While all other menus can be accessed at almost any time, the Select Language menu will not automatically appear again after it is first set. To see the Select Language menu, press the TIMER RESET button on the back of the VCR, then follow the procedure above. The Select Language menu will also appear after an extended power failure.

Memorizing Channels Automatically

Using this process, your VCR will automatically memorize all of the television stations available to you. You can later get rid of unwanted or unused stations.

You need to manually set the brand code for the a satellite receiver.

A special note to cable box subscribers

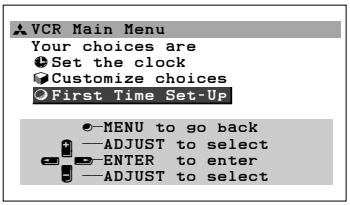
If your local cable company scrambles some or all stations, and/or requires you to use a cable box, then your ability to memorize channels would normally be limited. The cable box receives all of your channels, then sends only one to your TV and your VCR, usually on channel 3 or 4.

If you are required to use a cable box, you should choose Cable box only or Digital Cable box only option in step 4 below and turn the cable box on. Your HS-U577 will use its Converter Box Control technology to change the channels on the cable box. Make sure you have properly placed the IR Emitter (see page 9).

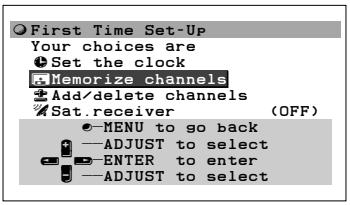
If your cable box or cable system seems incompatible with your new VCR, call your cable company. They may be able to provide solutions to your problems.

1 Set the VCR's input to tuner. To do this, press INPUT on the remote control until a channel number appears on the screen.

2 Press MENU on the remote control. VCR Main Menu comes up. If First Time Set-Up is not highlighted, use the ADJUST buttons on the remote to highlight it.



3 Press ENTER. First Time Set-Up menu will appear. Press the ADJUST buttons to select Memorize channels. Press ENTER.



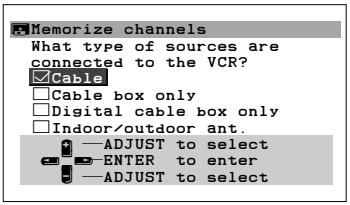
IMPORTANT

If you are recording or playing back a tape, Not available will flash and an error message will appear. To correct this, stop the tape.

4 You will see the menu for sources connected to the VCR. Using the list below as a reference, press the ADJUST buttons to select the kind of antenna you connected.

- **Cable** if you have standard cable service without a cable box, use a cable box with an A/B switch, or your cable box is not remote controllable
- **Cable box only** if you use a standard cable box
- **Digital cable box only** if you use a digital cable box
- **Indoor/outdoor ant.** if you use rabbit ears type or roof mounted type antennas

After you have selected, press ENTER.



Setting Up Your VCR

Cable Box Brand Code

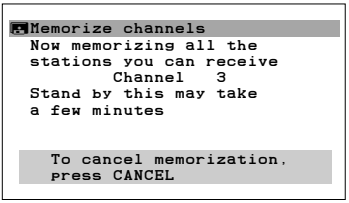
Manufacturer	Code Number	Manufacturer	Code Number	Manufacturer	Code Number
ABC	1, 2, 11	Magnavox	59, 61, 67	Sheritech	57
Archer	29, 58, 65	Movietime	30, 31, 51, 54	SL Marx	5, 14, 29
Century	29, 65	NSC	20, 51, 52	Sprucer	14, 21, 25
Citizen	29, 65	OAK	27, 39, 40, 49, 50, 61	Stargate	5, 14, 29, 65
Diamond	54, 58	Panasonic	14, 21, 25	Sylvania	66
Eagle	17, 18, 19, 61, 62, 63	Paragon	6, 7	Teknika	36
Eastern	68	Pioneer	14, 15, 16, 92, 93, 94	Texscan	53, 66
G C Electronic	29, 65	Philips	26, 61, 62, 63, 64	Tocom	1,2,3,4,5,41,42,43,44,69,91
Gemini	5, 60	RCA	14, 21, 25	Toshiba	32, 33, 34
General Electric	35	Realistic	37, 38	Unika	48
General Instrument	1,2,3,4,5,41,42,43,44,69,91	Regal	45, 48	United Cable	2
Hamlin	22, 23, 45, 46, 47	Regency	68	Universal	30, 31, 54, 65
Hitachi	24	Rembrandt	55, 56	Videoway	6, 7
Jerrold	1,2,3,4,5,41,42,43,44,69,91	Samsung	5, 14, 21, 25, 29	Viewstar	17, 18, 19, 61, 62, 63
Macom	28	Scientific Atlanta	10, 11, 12, 13	Zenith	6, 7, 8, 9

Digital Cable Box Brand Code

Manufacturer	Code Number
GI	1, 2

If you choose Cable or Indoor/outdoor ant.

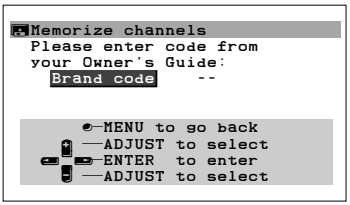
An on-screen message will show you that the VCR is memorizing the stations you can receive. After the VCR has memorized all the channels, the screen will return the VCR's picture.



If you choose Cable box only or Digital cable box only

You need to tell the VCR which manufacturer makes your cable box or digital cable box, and on which channel the cable box or digital cable box sends a signal.

5 Brand code will be highlighted. Press the ADJUST buttons or the number buttons to select the manufacturer's code number for your cable box or digital cable box. The codes are listed above.



6 To determine if the Brand code is correct, press CHANNEL on the remote. The channel number on the TV screen should change. Then your cable box or digital cable box should change to the exact same number a moment after it appears on your VCR.

If your cable box or digital cable box does not change channels at all, or does not show the exact same number, try the next Brand code, if another is listed for your type of cable box or digital cable box. Also make sure the IR emitter bulb faces the IR window on the cable box .

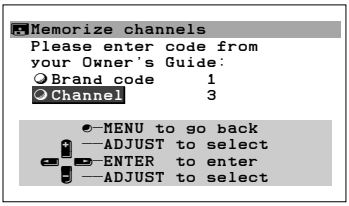
If no code number is listed for your cable box, or if none of the listed numbers work, try each code from 1 to 94. (For digital cable box, code from 3 to 5 are not functional.)

If your cable box or digital cable box cannot be operated by a remote control (if it has a mechanical dial or slide), then your VCR will not be able to change channels on the cable box.

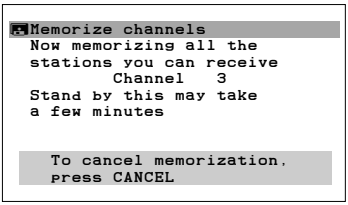
If your cable box will not respond to any of the codes, your VCR cannot change channels on the cable box. You will need to change channels yourself, using the cable box's remote control. You should re-program your VCR, choosing Cable in step **4**. When programming to record, you will need to leave your cable box ON and tuned to the channel you wish to record.

7 When the Brand code is correct, press ENTER. The screen will add a Channel selection.

8 Use the ADJUST buttons to select the channel on which your cable box or digital cable box sends a signal to the VCR (normally channel 3 or 4). If you connected your cable box or digital cable box with audio/video cables, use INPUT to select **L1** (if you used the rear panel jacks), or **L2** (if you used the front panel jacks). You cannot use both digital cable box and satellite receiver. Thus if you selected Digital cable box only in step **4**, you cannot select **L2**.



9 After entering the channel number, press ENTER. The VCR will begin memorizing the available channels. During this process your TV screen and your cable box or digital cable box should all display each channel number one by one. You can cancel the memorization at any time by pressing CANCEL on the remote control.



After the VCR has memorized all the channels, the screen will return the VCR picture.

IMPORTANT

Automatic channel memorizing may include vacant channels if there are stray signals or noise on those channels. If this occurs, you can manually delete the channels using the procedure in the section **Adding and Deleting Channels**.

You do not need to perform this set-up again unless your cable company changes their channel lineup, or you move the VCR to a new address.

Satellite Receiver Control

If you are using a satellite receiver, you can set up your VCR to change channels on the satellite receiver.

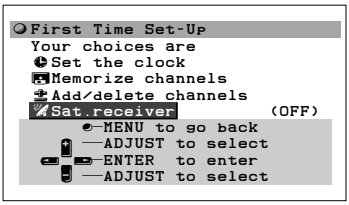
1 Make sure you are viewing the picture coming from your VCR. Press MENU on the remote control. VCR Main Menu appears.

2 Press the ADJUST buttons on the remote control to select First Time Set-Up. Press ENTER.

3 You will see the First Time Set-Up menu. Press the ADJUST buttons to select Sat. receiver.

IMPORTANT

You cannot select Sat. receiver if you select Digital Cable box only in step **4** of Memorizing Channels Automatically (on page 14).



4 Press ENTER to select the correct code for your satellite receiver.

Manufacturer	Code
RCA or GE	1
PRIMESTAR®	2
Sony	3
DISH Network	4
Toshiba	5
Panasonic	6
Hughes	7
none	OFF

5 After you have selected, press MENU twice to exit the menus.

IMPORTANT

After you have connected the satellite receiver and set the brand code, you need to see if your VCR can control your satellite receiver. To do this, use CHANNEL or number buttons on the VCR remote to tune to a satellite channel. If the satellite channels appears on you TV, then your VCR can control your satellite receiver.

Adding and Deleting Channels

If necessary, you can manually add or delete channels after you have completed the automatic channel memorizing. You cannot do this for channels coming from a satellite receiver.

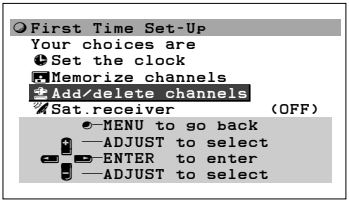
1 Make sure that video mute is ON. See page 46.

2 Set the VCR's input to tuner. To do this, press INPUT on the remote control until a channel number appears on the screen.

3 Press MENU on the remote control. VCR Main Menu appears.

4 Press the ADJUST buttons on the remote control to select First Time Set-Up. Press ENTER.

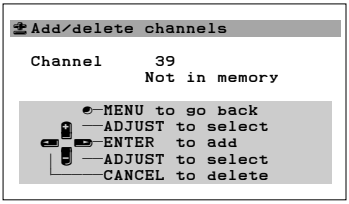
5 You will see the First Time Set-Up menu. Press the ADJUST buttons to select Add/delete channels. Press ENTER.



IMPORTANT

If you are recording, playing back a tape, receiving a video signal from an external input, or watching a satellite receiver channel, then Not available will flash on-screen. To correct this, stop the tape or turn off the menus and switch the VCR's input to tuner.

6 You will see the screen for adding or deleting channels. Use the ADJUST buttons to select the channel that you want to add or delete. Press ENTER to add the channel; press CANCEL to delete it.



7 When you are finished adding or deleting channels, press MENU three times to exit the menus.

IMPORTANT

If you use automatic memorizing again, you will lose all of the manual changes you made. All of the channels you deleted will be added; all of the channels you added will be deleted. If your cable box receives only one or two digit channels, you cannot add a three-digit channel.

Selecting a Channel

Now that you have memorized channels, and added or deleted some, you will want to be able to select channels. If you have not yet memorized channels, see page 14, **Memorizing Channels Automatically**. (If you selected digital cable box, you cannot select any satellite channels.)

Antenna/Cable selections	Your VCR can receive
indoor/outdoor antenna	VHF/UHF channels 2–69
cable antenna without box	cable channels 1–125
cable box only	cable box channels 0–99
digital cable box	digital cable box channels 0–999

Satellite Receiver selections	Your VCR can receive
Sony, RCA, GE, Toshiba, Panasonic, Hughes, DISH Network™	any channel from 100-999 provided by your satellite service (cable channels 100-125 cannot be selected)

Satellite Receiver selections	Your VCR can receive
PRIMESTAR®	any channel from 1-999 provided by your satellite service (cable channels 100-125 cannot be selected)

If you try to select a channel number that the VCR cannot receive, the VCR will not change channels.

selecting antenna, cable or digital cable channels sequentially
Press CHANNEL on the remote control or on the VCR front panel. This will cycle through the channels in sequential numerical order.

When you select the digital cable channels from 100 to 999, holding down the CHANNEL on the remote will advance the channels in 10 channel increments.

selecting antenna, cable or digital cable channels directly
Use the number buttons on the remote control. For example, to choose channel 23, press 2-3. If you select digital cable channels, you can select the three digits channels directly by using the number buttons. For example, to choose digital cable channel 157, press the 1-5-7.
To select a single digit channel, such as channel 5; press 0-5. You can also press 5, then press ENTER.

selecting satellite channels sequentially
Press CHANNEL on the remote or on the VCR front panel. When pressing the up arrow, the lowest satellite channel will follow the highest antenna or cable channel. When pressing the down arrow, the highest satellite channel will follow the lowest antenna or cable channel. The other satellite channels will follow in numerical order.

Continuously holding down CHANNEL on the remote will advance the channels in 10 channel increments.

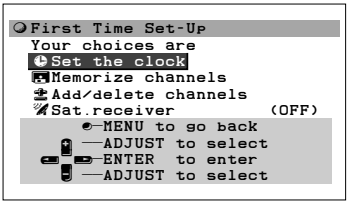
selecting satellite channels directly
For Sony, RCA, GE, Toshiba, Panasonic, Hughes and DISH Network; press the number buttons on the remote. For example, to go to channel 263, press 2-6-3.
For PRIMESTAR channels, press INPUT until the channel number with “SAT” appears on the screen. Then press the number buttons on the remote.
For one or two digit channel numbers, press the number buttons, then press ENTER. For example, to go to channel 29, press 2-9-ENTER.

Setting the Clock

You have to set the clock using either **Setting the Auto Clock** or **Setting the Clock Manually** before you can program your VCR to record.

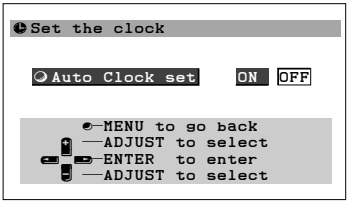
Setting the Auto Clock

Your VCR can set the clock automatically by picking up a time signal which some TV and cable channels transmit with their broadcasts. Most PBS stations send this signal; however, this function works only if a channel in your area is broadcasting a time signal. If you don't receive this signal, set the clock manually.



1 Press MENU on the remote control. VCR Main Menu will appear.

2 Press the ADJUST buttons to select First Time Set-Up. Press ENTER. The First Time Set-Up menu will appear. Use the ADJUST buttons to select Set the clock. Press ENTER.



3 You will see the Set the clock menu. Auto Clock set will be highlighted. Press the ADJUST buttons to select ON.

4 Turn the VCR off to activate the auto clock setting function.

The VCR will search for a channel that carries a time signal, then set your time zone and daylight saving time. If there are only a few channels in your area that carry time signals, it may take about 30 minutes to complete. If you turn the VCR on before the correct time displays, the auto clock setting will be cancelled. See if the clock has been set on the front panel display on the VCR.

If the VCR displays the wrong time, the time zone setting may not be correct. To adjust this, follow the steps in **If the VCR displays the wrong time**. (See the next page.)

IMPORTANT

When you memorized channels, if you chose **Cable box only** or **Digital cable box only**, make sure you leave the cable box or digital cable box **on**. At 3:00 am, when the VCR power is off, the VCR will begin to automatically change channels on the cable box, one by one, to set the clock. At this time you cannot use the cable box.

If you want to use the cable box at 3:00 am, turn on the VCR or set the Clock set of the Set the clock menu to MANUAL. In both cases, auto clock function will be cancelled.

When you memorized channels, if you chose **Cable** or **Indoor/outdoor ant.**, the VCR will set the clock as soon as you turn off the VCR, and at 3:00 am.

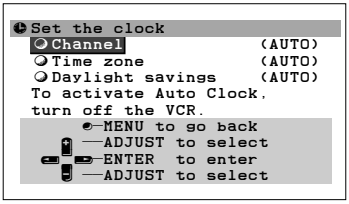
After a power failure, the VCR will automatically set the clock again. (If you have set the Clock set setting of the Set the clock menu to MANUAL, the auto clock function will not work.)

Setting Up Your VCR

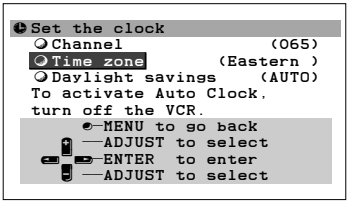
If the VCR displays the wrong time

1 Follow the procedure on the previous page to step **3**. Then press ENTER.

2 You will see the Set the clock menu. Channel will be highlighted. If you know the channel that carries a time signal, press the ADJUST buttons to enter the channel. Most PBS stations broadcast a time signal. For fastest response, enter your local PBS station. If you don't know it, leave the channel setting at AUTO. Press ENTER.

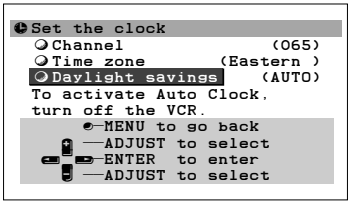


3 Time zone will be highlighted. Press the ADJUST buttons to select the time zone of your area. Available time zones are: Atlantic, Eastern, Central, Mountain, Pacific, Alaska, and Hawaii. Press ENTER.



4 Daylight savings will be highlighted. Press the ADJUST buttons to select AUTO, ON or OFF. If you follow daylight saving time, select ON. If not, select OFF. If you select AUTO, the VCR automatically sets the daylight saving time.

5 To activate the auto clock function, turn off the VCR.



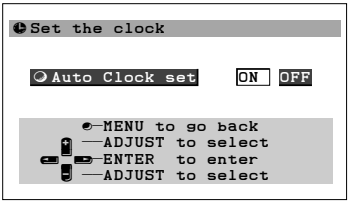
Setting the Clock Manually

Skip this section if your VCR has set the clock correctly using the auto clock function.

1 Press MENU on the remote control. You will see the VCR Main Menu.

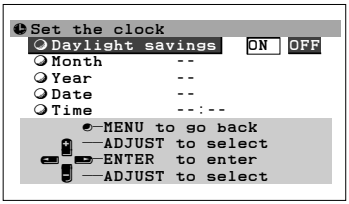
2 Press the ADJUST buttons to select First Time Set-Up. Press ENTER. First Time Set-Up menu will appear. Press the ADJUST buttons to select Set the clock. Press ENTER.

3 You will see the Set the clock menu. Auto Clock set will be highlighted. Press the ADJUST buttons to select OFF. Press ENTER.



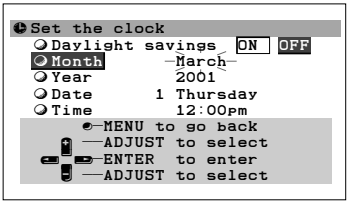
Setting Up Your VCR

4 Daylight savings will be highlighted. Press the ADJUST buttons to select ON or OFF. If you are currently following daylight savings, select ON. Otherwise, select OFF. Press ENTER.

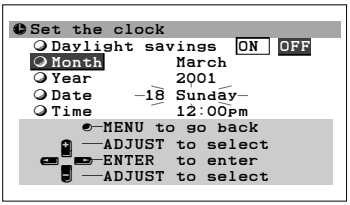


5 Press the ADJUST buttons until the correct month appears on screen. Press ENTER.

6 Press the ADJUST buttons to set the current year. Press ENTER.



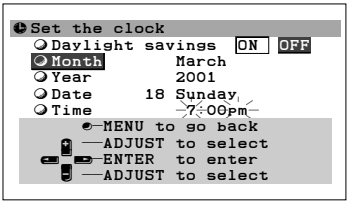
7 Press the ADJUST buttons to set the date. Press ENTER.



8 The hour numbers and the am/pm indicator will be blinking. Press the ADJUST buttons to set the hour and am/pm at the same time. Pressing ADJUST + moves the clock *forward*; pressing ADJUST – moves the clock *backward*. Press ENTER.

9 Press the ADJUST buttons to set the minutes. When you have set the correct time, press ENTER. First Time Set-Up menu will appear, and the clock will start running.

10 Press MENU twice to turn off the menus.



You can adjust the daylight saving time manually. When Daylight savings is highlighted, press the ADJUST buttons to select ON or OFF.
If you select ON, the VCR will set the clock forward one hour.
If you select OFF, the VCR will set the clock back one hour.

IMPORTANT

Any time you adjust this setting, check your programmed recordings to be sure they are set to the correct times.

Recording

Your new VCR offers a wide variety of recording options that take full advantage of our advanced electronics. First, you can learn how to record a current broadcast. Then, in another section of this book called **Timer Recording**, you can learn how to program your VCR to record at a later time and day.

Recording a Current Broadcast

To record a TV program that is currently playing:

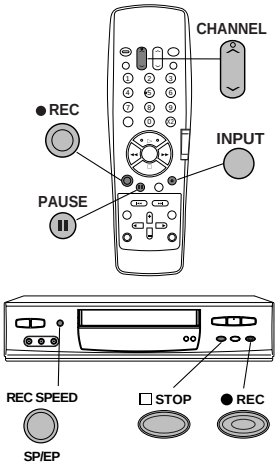
1 Load a tape with its erasure prevention tab intact into the VCR.

2 Set the speed at which you would like to record by pressing SP/EP on the remote control or REC SPEED on the front panel.

3 Set the VCR's input to tuner by pressing INPUT until a channel number shown on-screen. If **L1** or **L2** appears, continue to press INPUT until a channel number appears. To record channels from a PRIMESTAR® receiver, press INPUT until a channel number with "SAT" appears on the screen.

4 Select the channel you wish to record by pressing CHANNEL on the remote control or on the front panel or the number buttons on the remote. If you are using a cable box that the VCR cannnot control, select channel 3 or 4 on the VCR, and change the channel on the cable box, not on the VCR.

5 Press REC on the remote or REC/②REC LENGTH on the front panel.



Recording will start. When the VCR reaches the end of the tape, it will automatically rewind to the beginning of the tape and stop.

- You can stop recording at any time by pressing STOP or PAUSE on the remote or on the front panel.
- To resume recording from STOP, press REC.
- To resume recording from PAUSE, press PAUSE.
  You cannot use REC/②REC LENGTH on the front panel to resume recording from PAUSE.

IMPORTANT

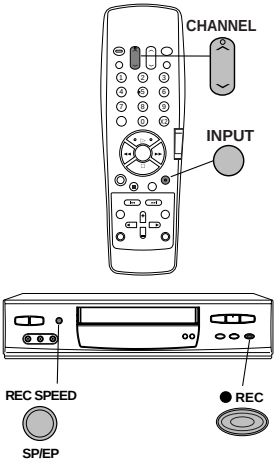
If you pause the VCR for more than five minutes, recording will stop automatically to protect the tape.

If you record in extended play (EP), you will only be able to play the tape on a VCR equipped for EP play, such as this one.

If you attempt to record on a tape that has had its erasure prevention tab removed, the VCR will eject it. To record over such a tape, simply place a piece of vinyl tape over the opening.

Using One-Touch Recording (OTR)

One-Touch Recording (OTR) is a way to begin recording immediately, and have your VCR stop recording and turn off automatically after your show is over.



1 Load a tape with its erasure prevention tab intact into the VCR.

2 Set the speed at which you would like to record by pressing SP/EP on the remote control or REC SPEED on the front panel.

3 Set the VCR's input to tuner by pressing INPUT on the remote until a channel number shows on-screen. To record channels from a PRIMESTAR® receiver, press INPUT until a channel number with "SAT" appears on the screen.

4 Press CHANNEL on the remote control or on the front panel or the number buttons on the remote to select the channel to be recorded. If you are using a cable box that the VCR does not control, select channel 3 or 4 on the VCR, and change the channel on the cable box.

5 Press REC/②REC LENGTH on the front panel twice. The first time you press the button, recording will begin. The second press of the same button adds 30 minutes to the OTR timer, displayed on the front panel.

6 Press REC/②REC LENGTH for each additional 30 minutes you want to add to the OTR timer, up to 4 hours. If you press the button 10 times, you will see End on the front panel display. The VCR will record until the end of the tape. If you press the button an eleventh time, the VCR will resume normal manual recording.

The OTR timer will begin to count down backwards. When it reaches zero, the VCR will stop recording and turn off.

If you program too much time into the OTR timer

Continue pressing REC/②REC LENGTH. After the End point you can start over from zero, adding time in 30 minute intervals.

How OTR affects other controls

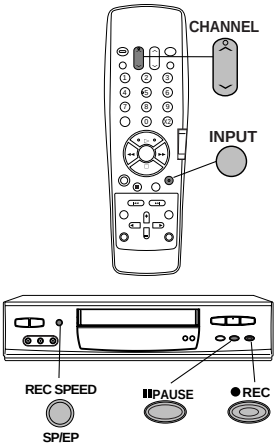
If you press PAUSE during OTR, the VCR will pause recording, but the OTR timer continues to count down.

Press PAUSE again to resume recording from the record-pause mode. The REC/②REC LENGTH will not resume your recording.

If you press STOP during OTR, you erase the OTR programming.

Using Standby One-Touch Recording (OTR^2)

Standby One-Touch Recording (also called OTR^2) is a programming method to begin recording within 24 hours and record in 30 minutes intervals. Before you use OTR^2, make sure the clock has been set correctly.



1 Load a tape with its erasure prevention tab intact into the VCR.

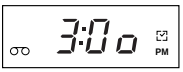
2 Set the speed at which you would like to record by pressing SP/EP on the remote control or REC SPEED on the front panel.

3 Set the VCR's input to tuner by pressing INPUT on the remote until the channel number shows on-screen. To record PRIMESTAR® channels, see Step **3** on the previous page.

4 Press CHANNEL on the remote control or the front panel to choose the channel to be recorded. If you are using a cable box that the VCR does not control, select channel 3 or 4 on the VCR, and change the channel on the cable box.

5 Press PAUSE/①START TIME on the front panel to set the time when you wish recording to start (within 24 hours). The start time is displayed on the front panel. The first time display is the next half-hour increment from the current time. For example, if it is currently 2:15, 2:30 (next half-hour increment) will be displayed. Similarly, if it is currently 2:40, 3:00 (again, the next half-hour increment) will be displayed. Each time you press the button, the start time is delayed by 30 minutes.

6 Press REC/②REC LENGTH for each additional 30 minutes you want to add to the OTR^2 timer, up to 4 hours. If you see End on the front panel display, the VCR will record until the end of the tape.
If you have a cable box, a digital cable box, a PRIMESTAR® or a DISH Network™ satellite receiver, leave the cable box or receiver turned ON. If the HS-U577 does not control your cable box, leave the box tuned the station you wish to record.



After 30 seconds, the power will turn off and the programmed recording light will be lit. The VCR will automatically turn on at the OTR^2 start time and recording will begin. When the OTR^2 timer reaches zero, the VCR will stop recording and turn off automatically. If the end of the tape is reached before OTR^2 is finished, the VCR will stop and the power will turn off.

IMPORTANT

Other programs you have set to record may be erased if:

- the start times are before the OTR^2 start time
- conflicts with the OTR^2
- starts within one minute or less after the OTR^2 finishes

If you turn the power on while your VCR is in stand-by for the OTR^2, the OTR^2 programming will be erased.

Recording

To cancel OTR²

- Turn the power OFF while you are programming the timer.
- Turn the power ON if you have finished programming the timer.

How OTR² affects other controls

If you press REC/②REC LENGTH on the front panel during OTR² recording, 30 minutes will be added to the OTR² timer. If you press STOP during OTR² recording, you erase the OTR² programming.

Using Audio and Video Functions

The audio and video function menus allow you to set things such as listening to the stereo track of your recording, or setting the tape length to have the remaining time display function work properly. The VCR will display the functions and settings on your TV screen. The first section describes the functions, the next section tells you how to adjust the functions.

Audio functions
audio monitor
normal record

Video functions
tape (length)
repeat playback
PerfecTape Select
PerfecTape®
counter zero stop
Search to blank

Descriptions of Audio Functions

Audio monitor (Listen to):

This allows you to listen to the various audio tracks that your VCR is capable of recording.

- Choose **Stereo** to listen to both stereo channels.
- Choose **L** to listen to the left channel of a stereo track.
- Choose **R** to listen to the right channel of a stereo track.
- **Mono** track is lower in quality than the others. The audio monitor is automatically set to **Mono** if you are watching a tape that was not recorded in VHS Hi-Fi. Set the audio monitor to **Mono** to hear SAP signal recorded on the mono track of a Hi-Fi tape.

IMPORTANT

Surround Sound systems : If you have your VCR connected to a surround sound system, set the audio monitor to **Stereo**. Surround sound requires both left and right channels to create the rear channel effects.

Recording

While the VCR is not playing a tape, you will see the following displays on the TV screen for 3 seconds when you change the channel or press DISPLAY.

If you change the channel to:	Display
stereo broadcast	Stereo
SAP broadcast	SAP
stereo and SAP	Stereo+SAP

While the VCR is playing a tape, you will see the following displays on the TV screen for 4 seconds when you press DISPLAY.

The audio monitor you listen to	Display
Stereo	Audio Stereo
L	Audio L
R	Audio R
Mono	Audio Mono

Normal recording (Record):

When your VCR is recording, it actually records the audio portion of a program twice: once on the stereo Hi-Fi tracks, and once on the mono track. Additionally, your VCR can receive Separate Audio Program (SAP) broadcasts. A SAP broadcast is an alternative soundtrack for a program; it is often a sound track in another language. The SAP broadcast is recorded only on the mono track.

Use the normal recording function to record the SAP broadcast on the mono track by choosing **Stereo+SAP**. Otherwise, choose **Stereo**. In either case, the main program is recorded on the stereo Hi-Fi track. Also, if there is no SAP broadcast, the VCR will record the main program on the mono track.

Descriptions of Video Functions

Tape

Adjust this function to ensure the accuracy of the Remaining Time display. The remaining time function does not work properly with a tape that is less than 30 minutes long.

Length of tape	Use Setting
2 hours long or less (T-30 through T-120)	T-120
160 minutes (T-160)	T-160
180 minutes (T-180)	T-180
200 minutes (T-200)	T-200
210 minutes (T-210)	T-210

PerfecTape Select (Play PerfecTape)

This function turns on the PerfecTape Select circuitry, which automatically maximizes picture quality when playing a worn or poor quality tape.

Set the switch to **Soft** to soften the picture, set it to **Sharp** to sharpen it. Set it to **Normal** when you do not want to use this feature. Use **Normal** on new or high quality tapes. If it is set to **Auto**, the VCR will automatically select the ideal setting of PerfecTape Select depending on the condition of the tape.

Recording

Counter zero stop (Counter zero stop)

This function is used to automatically fast forward or rewind to “0h00m00s” and stop the tape. See page 42 for more information on this feature.

Repeat playback (Repeat play)

Use this function to repeatedly play a section of tape between two index marks. See page 44 for more information on this feature.

PerfecTape®

PerfecTape function allows you to test the quality of video tapes you will record on. After each test, the VCR adjusts its circuitry in order to make the best possible recording on your tape. See page 47 for more information on this feature.

Search to blank (Search to blank)

Use this function to search the beginning of the blank section of the tape. See page 44 for more information on this feature.

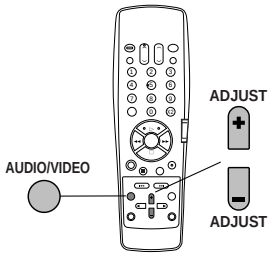
Selecting and adjusting the audio and video functions

1 Press AUDIO/VIDEO on the remote control to see the function menu.

2 Press AUDIO/VIDEO repeatedly until the function you want to adjust appears.

3 Press the ADJUST buttons on the remote to adjust the setting.

The functions will disappear if you do not press any buttons for 5 seconds.



IMPORTANT

The audio and video function menus do not appear:

- when the VCR menu is displayed
- during special effects playback

Tape function does not appear during playback.

Play PerfecTape is displayed only during playback.

PerfecTape® displays only when a tape, with its erasure tab intact, is loaded and the VCR is stopped.

```
VCR
Listen to: Stereo
Use ADJUST to select
```

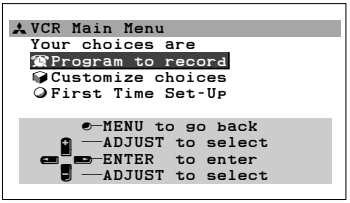
Timer Recording

Mitsubishi offers 3 ways to set your VCR to record upcoming broadcasts. Choose from:

Conventional VCR timer recording
Quick Program (easy) -- VCR does not need to be on to begin programming
VCR Plus+® system programming (easy)

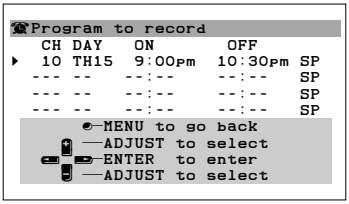
You can schedule up to 8 recording events within a one month period.
Clock must be set before **any** timer recordings can be performed.

Conventional VCR Timer Recording



1 Load a tape with its erasure prevention tab intact into the VCR.

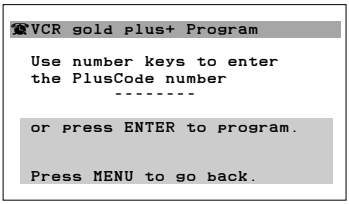
2 Press MENU. VCR Main Menu appears on your screen. Use the ADJUST buttons to select Program to record. Press ENTER.
If there is at least one programmed recording already entered, you will see the Recap screen. Wait 4 seconds, and the VCR gold Plus+ Program menu will appear.



Recap screen

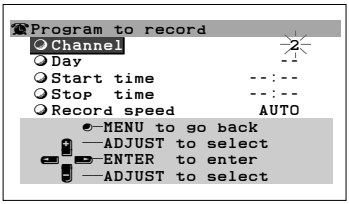
> **IMPORTANT**
> If you have already programmed 8 recording events, Program memory is full will appear on your screen for 3 seconds, and then the Recap screen will appear. Use CANCEL to erase an entry before you can add another one.

3 VCR gold Plus+ Program menu appears. See page 31 to learn how to program with VCR Plus+®. To pass this screen, press ENTER.



4 Program to record menu appears. Press the ADJUST buttons to choose the channel you would like to record; for example, channel 2. Press ENTER.

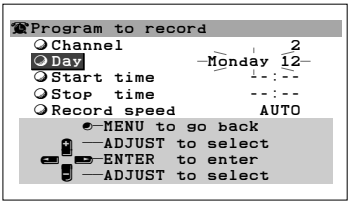
- If you are using a **cable box** that the VCR cannot control, enter the channel number on which the cable box sends a signal to your VCR (usually channel 3 or 4).
- If you are recording from a **DSS®**, **PRIMESTAR®** or **DISH Network™ satellite receiver**, simply choose the channel you would like to record; for example, channel 245. SAT will display next to the channel number.
- To record from an **external source**, press INPUT or press the ADJUST buttons to:
  Select External L1 for a source connected to the rear panel.
  Select External L2 for a source connected to the front panel.



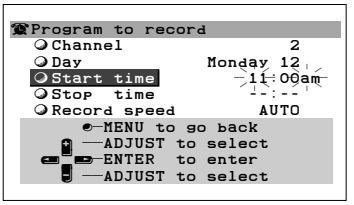
Timer Recording

5 Day will flash. Press the ADJUST buttons to choose the day on which you want to record; for example, Monday the 12th. Your choices are:
- a single day up to one month away
- every day from Monday through Friday; for example, to tape a soap opera. To program, press the ADJUST buttons until Monday-Friday appears.
- the same day every week; for example, to tape your favorite weekly sitcom. To program, press the ADJUST buttons until Every and the desired day of the week appears.

Press ENTER once you have made your choice.



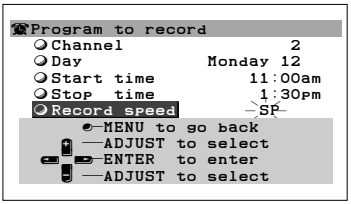
6 The hour numbers of the start time will flash. Press the ADJUST buttons to set the hour when recording is to start. Press ENTER.



7 The minute numbers of the start time will flash. Press the ADJUST buttons to set the minutes when recording is to start. Press ENTER.

8 Set the stop time the same way as the start time, using steps **6** and **7**.

9 Press the ADJUST buttons to set the recording speed: SP = standard play; EP = extended play; AUTO = auto. **Auto speed programming** is discussed on page 34. Press ENTER.



IMPORTANT

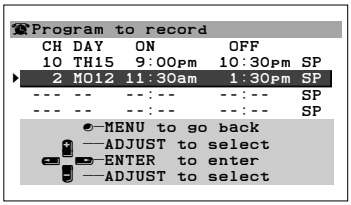
If you press ENTER when you set the timer recording incompletely, Program is not completed will appear on your screen.

If two programmed recording times overlap, VCR is already programmed for that time will display on your screen for about 3 seconds, and then the Recap screen will appear. The program you have just set will flash for 3 seconds and the start time and the stop time will be shown in red letters. The start and stop time of the overlapped program will be highlighted in red color. You will need to erase one of them.

10 The programmed memory will appear on the Recap screen. "**S**" next to the channel number indicates satellite channels.

11 To program additional recording times, select an empty program line by pressing ADJUST buttons. Press ENTER. The VCR gold Plus+ Program to record menu will appear. Continue the programming procedure from step **3**.

12 When you are finished with all programming, check the following:
- If you have a cable box, a digital cable box, a PRIMESTAR® or a DISH Network™ satellite receiver, leave the cable box or receiver turned ON.
- If your VCR does not control your cable box, leave the box tuned to the station you wish to record.
- Turn the VCR power OFF and make sure the programmed recording light is lit.



Recap screen

Timer Recording

IMPORTANT

When programmed recording of 4 and under are entered, only 4 of the 8 program lines appear on the Recap screen at any one time. To see additional program lines, press the ADJUST buttons to scroll the lines on the screen.

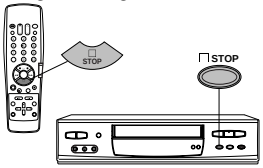
Canceling a recording in progress

There are two ways to cancel a recording in progress:

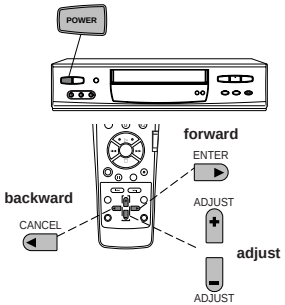
Press STOP. The recording stops, but the program is not cancelled. Therefore, if you press REC, the recording will start again.

Press POWER on the front panel. The recording stops and the program is cancelled.

Programming not cancelled



Programming cancelled



Changing while programming

To change one of your settings (such as start time) while you are programming:

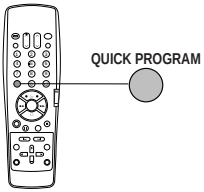
Press ENTER to move forward through the program list.
Press CANCEL to move backward.
Then use the ADJUST buttons to change the setting.

You will cancel the entire program if you press CANCEL while the channel number is flashing.

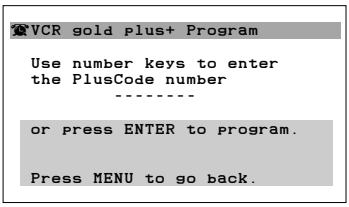
Quick Program

Quick Program is an exclusive Mitsubishi feature that simplifies the process of programming your VCR to record. When you press QUICK PROGRAM/VCR Plus+ on the remote control, you will immediately see the VCR gold Plus+ Program menu and can begin programming right away.

You can use this feature even when the VCR is stopped, playing, recording, fast forwarding, rewinding, or off. (Quick program does not work while using OTR[2].)



1 Press QUICK PROGRAM/VCR Plus+ on the remote control. If the VCR is off, it will turn on. After tuning your TV to the correct channel or input, VCR gold Plus+ Program menu will appear.



IMPORTANT

If the VCR memory is full, Program memory is full will appear for 3 seconds, and then the Recap screen will appear. Use CANCEL to erase an entry before you can add another one.

Timer Recording

2 Complete steps **3** through **10** in **Conventional VCR timer recording**. (See page 28.)
When you have finished, press QUICK PROGRAM/VCR Plus+ again.

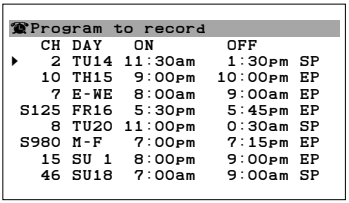
If the VCR is stopped, it will turn off and be ready to record your program at a later time.

If the VCR is playing, recording, fast forwarding or rewinding, the menus will turn off, but the VCR power will remain on.

3 When you are finished with all programming, check the following:
- If you have a cable box, a digital cable box, a PRIMESTAR® or a DISH Network™ satellite receiver, leave the cable box or receiver turned ON.
- If your VCR does not control your cable box, leave the box tuned to the station you wish to record.
- Make sure the VCR is turned OFF and the programmed recording light is lit before the recording time.

IMPORTANT

If you press QUICK PROGRAM/VCR Plus+, but the clock is not set, Set the clock menu will appear. Set the clock manually.



Recap screen

VCR Plus+® System Programming

The VCR Plus+® system allows you to program your VCR to record by simply entering a PlusCode programming number. You can find this number in *TV Guide* or possibly your local TV listings.

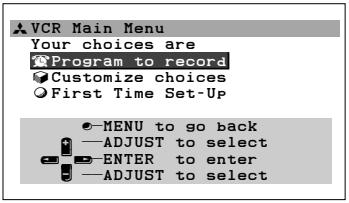
1 Load a tape with its erasure prevention tab intact into the VCR.

2 Press MENU. VCR Main Menu appears on your screen. Use the ADJUST buttons to select Program to record. Press ENTER.

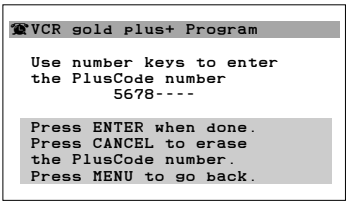
IMPORTANT

If the VCR memory is full, Program memory is full will appear for 3 seconds, and then the Recap screen will appear. Use CANCEL to erase an entry before you can add another one.

If there is at least one programmed recording already entered, the Recap screen will appear. Wait 4 seconds, and the VCR gold Plus+ Program menu will appear.



3 VCR gold Plus+ Program menu will appear. Use the number buttons on the remote control to enter the PlusCode number for the television show you want to record. For example, if the PlusCode number for the program you want to record is 5678, simply enter 5-6-7-8. See your local newspaper or *TV Guide* for PlusCode numbers.



Timer Recording

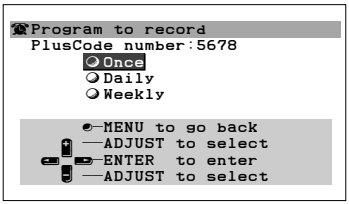
4 If you enter a number incorrectly, press CANCEL. When you have finished entering the PlusCode number, press ENTER.

> **IMPORTANT**
>
> If the code number you entered is wrong, PlusCode Not a valid number will display on the screen for 3 seconds, and then the VCR gold Plus+ Program menu will reappear.

5 Use the ADJUST buttons to select whether you want to record your program once, daily, or weekly.

- **Once** will record a program one time.
- **Daily** will record the same channel at the same time, Monday through Friday.
- **Weekly** will record the same channel at the same time, on the same day each week.

After you have made your choice, press ENTER.

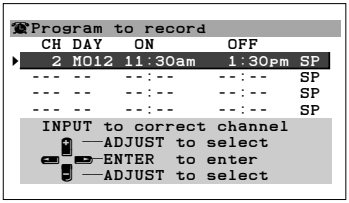


> **IMPORTANT**
>
> If two programmed recording times overlap, VCR is already programmed for that time will display on the screen. You will need to erase the previous program before you can enter the new one.

6 Recap screen will appear. The program you have chosen to record will be highlighted.

The channel number will appear in blue color. Make sure that the correct channel number is shown on the screen. If the displayed number is not correct, press INPUT to make the number flash, then press the ADJUST buttons to correct the channel number. Press the ENTER to complete. "**S**" will appear next to the channel number when you select a satellite channel.

Recap screen



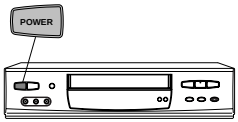
7 If you wish to change the record speed, press ENTER repeatedly until the record speed is flashing. Change the recording speed by pressing the ADJUST buttons. Press ENTER.

8 To program additional recording times, select an empty program line by pressing the ADJUST buttons. Press ENTER. You will return to the VCR gold Plus+ Program menu. Continue the VCR Plus+® programming procedure from step **3**.

9 When you are finished with all programming, check the following:

- If you have a cable box, a digital cable box, a PRIMESTAR® or a DISH Network™ satellite receiver, leave the cable box or receiver turned ON.
- If your VCR does not control your cable box, leave the box tuned to the station you wish to record.
- Turn the VCR power OFF and make sure the programmed recording light is lit.

If you want to stop the programmed recording after it starts, press POWER on the front panel.



Timer Recording Hints

To use the VCR before timer recording begins, press POWER on the remote once. This turns the programmed recording light off and the VCR on. If you use POWER on the front panel for this purpose, press it twice. Pressing it once turns off the programmed recording light; pressing it again turns the VCR on.

When you are finished using the VCR, turn the VCR power off again. Make sure the programmed recording light is back on.

After a program has been recorded, the VCR memory of that program is cleared (unless you have scheduled the VCR to record the program every day or every week).

If there is already a program in the VCR's memory, you will see the Recap screen when you bring up the menus for programming to record (unless you are programming with the QUICK PROGRAM/ VCR Plus+). If the VCR's memory is full, Program memory is full will appear on the screen. If so, you must erase a program before you can enter a new one.

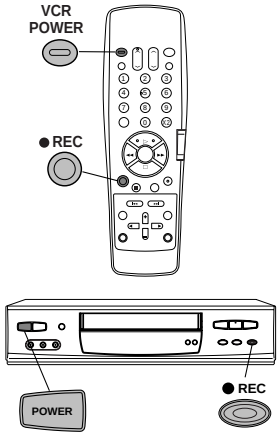
If a tape runs out during timer recording, the VCR ejects the tape and the programmed recording light will flash. Load a new tape and press REC. Recording will resume.

If you forget to load a tape, the programmed recording light will flash when you turn the VCR power off. (A tape without an erasure tab will be ejected. To correct this, load a tape with its erasure tab intact, and turn off the VCR.)

Do not overlap the recording times you enter into the VCR. If you set two programmed recording times overlap, VCR is already programmed for that time will appear on your screen.

Remember that the VCR will record over the next section of tape. If you want to save a tape, remove it and instead use a different tape for a new recording.

Your VCR will not record over a tape that has the erasure prevention tab removed. All rental movies have this tab removed, so they are safe from being accidentally erased.



Timer Recording

Auto speed programming

Use auto speed programming if you want to record as much of the program as possible in standard play (SP) speed, but you want the VCR to automatically switch to extended play (EP) if there is not enough tape left.

Auto speed programming is only available for one program. In the first slot, the recording speed default is AUTO.

Make sure that the Tape video function matches the length of tape you are using. See **Selecting and adjusting the audio and video functions** on page 27.

At the point where the recording mode changes from standard play (SP) to extended play (EP), some noise may be in the picture or sound when playing the tape.

Program caution

If your VCR is set to record, but the power is still ON within 3 minutes before timer recording starts, this screen will appear to remind you to turn off the VCR.

If the VCR is still turned on 12 seconds before the start time of the recording, that timer recording will be cancelled.

program caution

```
REC in 3 min
Turn off VCR
```

TV programs that end on the day after

If you want to start the recording at 11:00 PM and end it at 2:00 AM the next day, simply set the start time to 11:00 PM on the recording start day and the end time to 2:00 AM. There is no need to change the day of the week.

Program skip using menus

Sometimes you may want to skip one day of a timer recording but do not want to erase it. Program skip will prevent the recording, for that day only, of a program you have scheduled to record every day or every week.

1. Press MENU on the remote control. Your VCR will turn on and VCR Main Menu will appear. Press the ADJUST buttons to select Program to record. Press ENTER.
2. Recap screen will display for 4 seconds. While this screen is displayed, press the ADJUST buttons to place the cursor arrow next to the program you wish to skip.
3. Press STOP. The cursor arrow will change to a X.
4. Press MENU twice to turn off the menus.

To resume recording every day or every week, change the X to the cursor arrow by following steps **1** to **4** again.

```
☎Program to record
   CH DAY   ON        OFF
    2 MO12   11:30am 1:30pm SP
   10 TH15  9:00pm  10:00pm EP
▸   2 M-F   8:00am   8:30am SP
 --- --   --:--     --:--   SP
  Use STOP to skip on/off
     ADJUST to select
     ENTER  to enter
     ADJUST to select
```

```
☎Program to record
   CH DAY   ON        OFF
    2 MO12 11:30am   1:30pm SP
   10 TH15  9:00pm  10:00pm EP
X   2 M-F   8:00am   8:30am SP
 --- --   --:--     --:--   SP
  Use STOP to skip on/off
     ADJUST to select
     ENTER  to enter
     ADJUST to select
```

Timer Recording

Program skip using the POWER button

If you have entered only one program into your VCR's memory, you can skip the program without going into the VCR's menus. Simply press POWER on the front panel once. The programmed recording light will turn off, and the program will be skipped. If you decide not to skip the program, press POWER on the front panel twice; the programmed recording light will light up again.

Changing timer recording settings

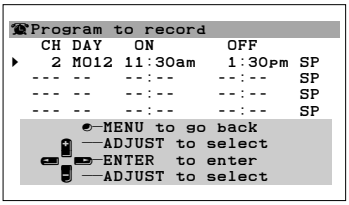
1 Press MENU on the remote control. Your VCR will turn on and VCR Main Menu will appear. Press the ADJUST buttons to select Program to record. Press ENTER.

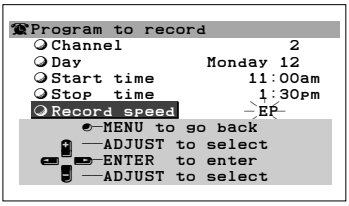
2 Recap screen will display for 4 seconds. While this screen is displayed, press the ADJUST buttons to place the cursor arrow next to the program you wish to change. Press ENTER. You will see the Program to record setting menu.

3 Press ENTER repeatedly to select the item you wish to change. Use the ADJUST buttons to change it. Then press ENTER repeatedly to return the altered program to the Recap screen.

4 Press MENU twice to turn off the menus. Then press POWER to turn off the VCR. Make sure the programmed recording light is on.

Recap screen





Canceling a timer recording before the recording starts

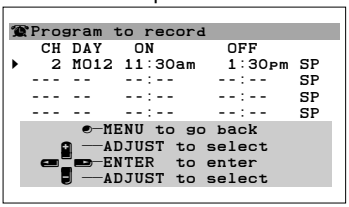
1 Press MENU on the remote control. Your VCR will turn on and VCR Main Menu will appear on your screen. Use the ADJUST buttons on the remote control to select Program to record. Press ENTER.

2 Recap screen will display for 4 seconds. While this screen is displayed, press the ADJUST buttons to place the cursor next to the program you wish to cancel.

3 Press CANCEL. The program is erased.

4 Press MENU twice to turn off the menus.

Recap screen



Using a satellite receiver

If you are using a Panasonic, RCA, Sony, Toshiba, or Hughes satellite receiver, your VCR will turn the receiver on when a timer recording begins and off when the recording ends.

However, if you are using a PRIMESTAR® or DISH Network™ receiver, you will have to turn the receiver on before a timer recording begins.

Before turning off the VCR, to put your VCR in stand-by for recording, make sure that your satellite receiver's menu turns off.

Timer Recording

TIMER RESET

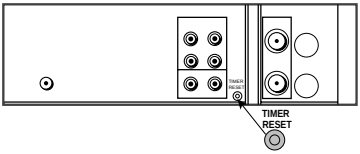
You can use TIMER RESET on the rear panel to erase both the clock and all timer recordings.

To use TIMER RESET, press it with a pencil or a ball point pen. The power will turn off and the clock will be cleared. All timer recordings are erased.

If you have set the Clock set setting of the Set the clock menu to AUTO, the auto clock function will automatically set the clock again.

Additionally, TIMER RESET will reset the on-screen language you selected. The next time you set the menus, you will have to select the on-screen language.

VCR Rear Panel



Memory backup

If the VCR is without power for 30 minutes or less, it will retain the clock and the programmed settings. The VCR must have been plugged in for at least an hour beforehand to charge this backup. If the power is lost for more than 30 minutes, the time and the programmed settings will be lost.

If you have set the Clock set setting of the Set the clock menu to AUTO, the auto clock function will automatically set the clock again when power is restored.

Editing Features

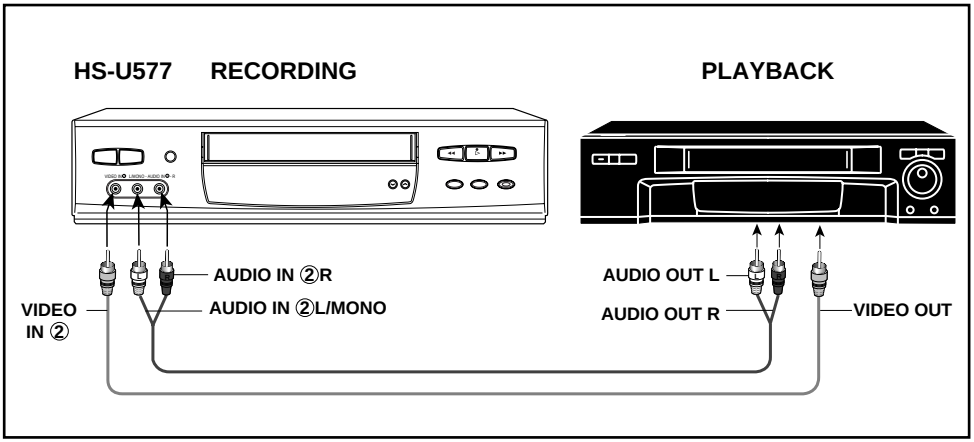
Using Two VCRs to Copy

There are two basic ways to make a copy of a tape.
One way is to use the HS-U577 to record and another VCR for playback.
The other way is to use another VCR to record and use the HS-U577 for playback.

Regardless of which method you may choose, you will need one RCA audio cable and one RCA video cable to connect the two VCRs. If you do not have these cables, they are available at your local electronics dealer.

Using the HS-U577 to record from another VCR

1. Connect the audio cable to AUDIO OUT L and R on the playback VCR and to AUDIO IN L and R on the HS-U577. If the playback VCR is mono, use only the AUDIO IN L on the HS-U577.
2. Connect a video cable to VIDEO OUT on the playback VCR and to the VIDEO IN on the HS-U577.
3. If the playback VCR is Hi-Fi, set the audio monitor to **Stereo**.
4. Use INPUT to set the HS-U577 to **External L1** if you used the HS-U577 **rear** panel jacks, or **External L2** if you used the HS-U577 **front** panel jacks.
5. Put a blank tape into the HS-U577.
6. Put the tape you want to copy into the playback VCR and find the cue point. Press STOP if the picture starts playing.
7. On the HS-U577, press REC, then PAUSE.
8. On the playback VCR, press PLAY, then PAUSE.
9. Press the PAUSE buttons on both VCRs at the same time to begin copying the tape.
10. When finished, press STOP on both VCRs.



Editing Features

Using the HS-U577 to playback to another VCR

1 Connect one stereo audio cable to AUDIO IN L and R on the recording VCR, and to AUDIO OUT L and R on the HS-U577.

2 Connect a yellow video cable to VIDEO IN on the recording VCR and to VIDEO OUT on the HS-U577.

3 Set the audio monitor on the HS-U577 to **Stereo**. If the other VCR is a mono VCR, set the audio monitor on the HS-U577 to **Mono**. See **Selecting and adjusting the audio and video functions** on page 27.

4 Set the input of the recording VCR to **External**.

5 Put a blank tape into the recording VCR.

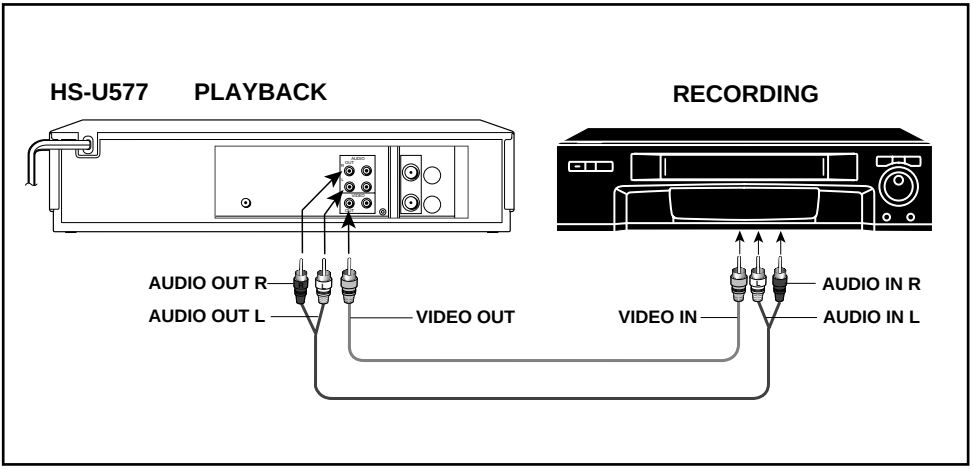
6 Put the tape you want to copy into the HS-U577 and find the cue point.

7 On the recording VCR, press REC, then PAUSE.

8 On the HS-U577, press PLAY, then PAUSE.

9 Press the PAUSE buttons on both VCRs at the same time to begin copying the tape.

10 Press STOP on both VCRs when you are finished.

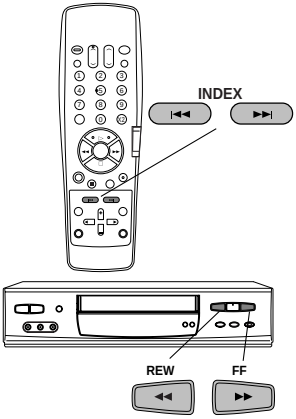


Advanced Features

Advanced Playback Controls

Special effects

You can use FF and REW on the front panel, or the I◀◀ and ▶▶I on the remote to control the playback speed of the tape.



Using the FF and REW on the front panel to control the playback speed

1 While the VCR is playing a tape, press PAUSE to freeze the picture.

2 Press the FF or REW on the front panel. Each press of FF changes the playback speed by one step in the forward direction. Each press of REW changes the speed by one step in the reverse direction. (See the chart below.)

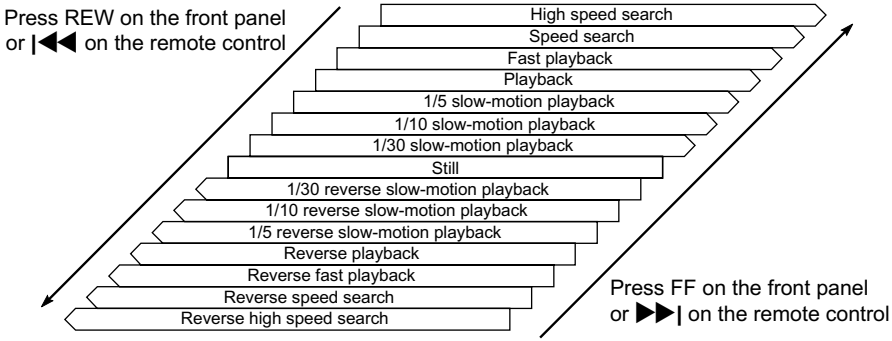
3 To resume normal playback, press PLAY.

Using the I◀◀ and ▶▶I on the remote to control the playback speed

1 While the VCR is playing a tape, press ◀◀ or ▶▶I on the remote control. Each press of ▶▶I changes the playback speed by one step in the forward direction. Each press of ◀◀ changes the speed by one step in the reverse direction. (See the chart below.)

2 To resume normal playback, press PLAY.

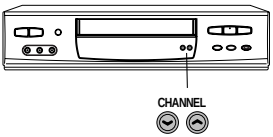
After about 5 minutes in the still or slow-motion mode, the VCR will automatically stop to avoid damage to the tape. The picture may



vibrate vertically when you pause the VCR's picture.

Still adjustment

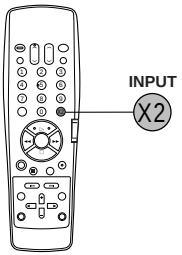
Sometimes during still frame, the picture may vibrate or shake. To correct this problem, press CHANNEL on the front panel until the vibration is reduced or stops. Side-to-side vibration cannot be corrected.



Advanced Features

Double speed playback

You can see the contents of the videotape in double speed playback.



1 While the VCR is playing a tape, press INPUT/X2. You'll see the picture in double speed playback. A certain amount of noise in the picture is normal.

2 To resume normal playback, press PLAY.

Adjusting the Tracking

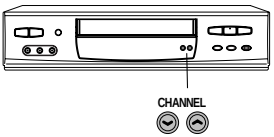
automatic tracking

When you start playback of a newly inserted tape, your VCR automatically adjusts the tape to give you the best quality picture.

A certain amount of "noise" in the picture or sound is normal while the VCR is tracking a tape.

manual tracking

From time to time, you might play a tape that has excess noise in the picture, often looking like vibration or interference at the top or bottom of the screen. To correct the picture, you have to manually track the tape.



1 While the tape is playing, press CHANNEL on the front panel until the picture is clear of excess noise.

2 To continue automatic tracking, press both front panel CHANNEL at the same time. Automatic tracking will also resume when you eject the tape.

slow tracking

Slow tracking is used to adjust the playback quality during slow motion playback and still frame. You can only use slow tracking if your tape was recorded in extended play (EP) speed. To adjust the slow tracking, put a tape into slow motion, then press CHANNEL on the front panel until the best picture is obtained.

Time Counter

Your VCR has a time counter that shows the amount of time the tape has run in hours, minutes, and seconds. This counter is useful when you want to find specific points on a tape. The counter will not work when playing blank tapes or on blank sections of tape, or when the VCR's power is off.

setting the counter

To set the counter to "0h00m00s," press CANCEL on the remote control.

You cannot reset the counter if you are using the VCR's menus.

The counter will reset to "- h - - m - - s" when you eject a tape. When you load a tape again, the counter will display "0h00m00s".

Searching Techniques

Your VCR lets you search through a tape in a number of ways. These include:

Quick search (CM skip) -- 30 second intervals
Speed search -- visually search
Counter zero stop -- direct to start of recording
Index search -- find specific index points
Search to blank -- find the beginning of the blank section

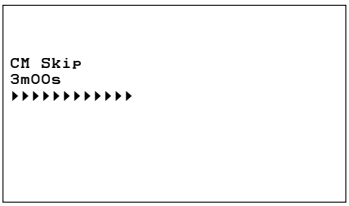
Quick search (CM skip)

Quick search lets you skip over the tape you are playing in about 30 second intervals. It is designed so that you can quickly speed through any commercials you may have recorded. To do this:

1. Make sure that you have set the VCR/TV slide switch on the remote control to the VCR position.
2. While playing a tape, choose the desired search time by pressing a number button.

Number button	1	2	3	4	5	6
Search time	30 sec.	1 min.	1 min. 30 sec.	2 min.	2 min. 30 sec.	3 min.

The VCR will speed through the selected length of tape, then resume playback. This screen will show the search time and the gauge. Each mark on the gauge represents 15 seconds. The marks will disappear, one by one, every 15 seconds of the search time. You can select a search time up to 3 minutes.



Advanced Features

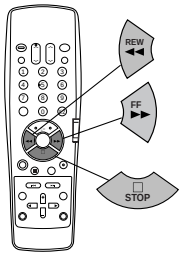
Speed search

Use speed search to visually search through the contents of a videotape.

1 While playing a tape, press FF or REW on the front panel or on the remote control. You will see the picture as it fast forwards or rewinds. Noise bars may appear in the pictures.

2 If you press FF or REW and hold it down for about 1 second, the search speed will increase.

3 To resume normal playback, press FF or REW again quickly, or press PLAY.



IMPORTANT

The fastest search speed that allows you to see the picture is about 30 times normal speed. It is normal for the number of noise bars on the screen to increase and roll from top to bottom as the visual search speed increases. Using speed search for long stretches of tape may cause the video heads to become dirty faster.

The fastest way to move through the tape is without a picture, which allows you to search up to 500 times normal speed. To do this, press STOP, then FF or REW. If you press and hold FF or REW for more than **2** seconds, the search speed will slow to 330 times normal speed.

In order to protect your tapes and the VCR heads, the Fast Forwarding/Rewinding Speed will be slower than 500x under the following conditions:

1 Use of tapes shorter in length than T-120 (for example, T-30, T-60, T-90).
2 Activating fast forwarding or rewinding from the middle of the tape.

Counter zero stop

Counter zero stop allows you to quickly access the beginning of a recorded or playback section of a tape. The counter zero stop will automatically fast forward or rewind the tape to “0h00m00s” and stop.

1 Press CANCEL on the remote control at the point you wish to locate later. The counter will reset to “0h00m00s”.

2 When you wish to return to the point specified in step **1**, press AUDIO/VIDEO on the remote control. The function menu appears on your screen. Press AUDIO/VIDEO until the Counter zero stop function appears.

3 Press ENTER to start the counter zero stop.

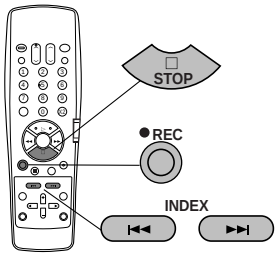
```
VCR
Counter zero stop
Use ENTER to start
```

The VCR will automatically search to the counter “0h00m00s” and then stop. The VCR may stop slightly before or after the counter “0h00m00s”.

Advanced Features

Index search

Index search is a way to find specific points on a tape. Before using index search, index marks are placed at important places on a tape. Index search is used to find these marks. Index marks are added automatically whenever your VCR starts a new recording; you can also add index marks manually at any point during recording.



automatic index marks

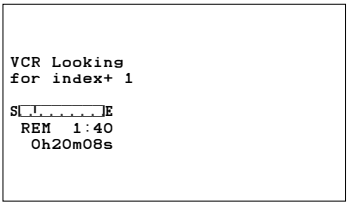
Whenever recording is begun from the STOP mode, an index mark is automatically added to the tape. A message will indicate that the mark is being recorded.

Index marks are not added when you press PAUSE to begin recording from the record-pause mode.

manual index marks

To add an index mark yourself, press REC on the remote control while a tape is recording.

Searching index marks must be added at least one minute apart.



1 When the tape is stopped, press INDEX ▶▶I to begin a forward search; press INDEX I◀◀ to search in reverse. The VCR will fast forward or rewind and index search display appears on the TV.

   Once the VCR finds an index mark, it will begin playing back the tape from that point.

2 You can press INDEX ▶▶I or INDEX I◀◀ buttons up to 19 times to search for that many index marks. For example, to find the third index mark ahead, press INDEX ▶▶I three times. The on-screen display will count down the number of marks passed before playback begins.

3 To cancel index search, press PLAY or STOP.

Advanced Features

repeat playback

You can playback a section of tape over and over using repeat playback. The tape will play until the next index mark, rewind to the previous index mark, and resume playing. If there is only one index mark on the tape, then the VCR will play or rewind to that mark and resume playback. If there is no index mark, the entire cassette will repeat.

1 Press AUDIO/VIDEO on the remote control to display the function menu. Press AUDIO/VIDEO until the Repeat play function appears.
2 To start the playback, press ENTER.

   When the VCR encounters the next mark or the end of the tape, it will automatically rewind to the previous mark and begin playback again.
   The VCR will also search for a blank section of tape. If the VCR encounters any blank sections longer than 4 seconds in length, the repeat playback will begin.

3 Press STOP to cancel the repeat.

```
VCR
Repeat play
Use ENTER to start
```

Search to blank

This feature allows you to find the end point of the recorded part of the tape. The VCR will stop automatically at the beginning of the blank section of a tape.

1 Press AUDIO/VIDEO on the remote control to display the function menu. Press AUDIO/VIDEO until the Search to blank function appears.
2 To start the search, press ENTER.
   When the VCR encounters the blank section of a tape, it will automatically stop.

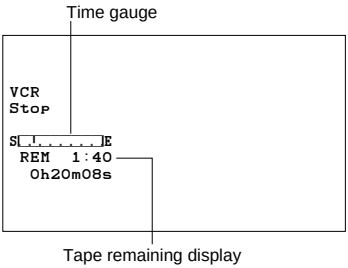
```
VCR
Search to blank
Use ENTER to start
```

IMPORTANT

This feature may not work correctly when the end point of the recorded part is within 5 minutes in SP mode (15 minutes in EP mode) from the current position.

Displaying the Time Gauge and the Remaining Time

The time gauge is a graphic representation of your position on a video tape. The left side of the gauge is the tape start (S), and the right side is the tape end (E). For a T-120 length tape played at standard (SP) speed, each mark on the gauge represents about 15 minutes. The remaining time display shows the time, in hours and minutes, left until the end of a tape.



the time gauge and the remaining time automatically appear during:

- fast forward and rewind (from a stopped tape)
- counter zero stop
- index searches
- rewinding for repeat playback

Turn off the time gauge and the remaining time by pressing DISPLAY twice.

to make the time gauge and the remaining time appear:

Press DISPLAY once. The time gauge and remaining time appear on the TV screen. They disappear after 4 seconds when playing a tape.

To turn off the display, press DISPLAY twice.

IMPORTANT

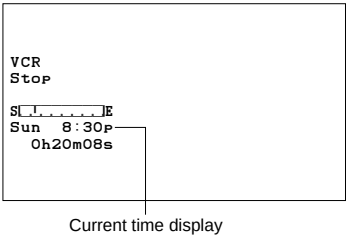
The time gauge and remaining time work by detecting control signals on recorded tapes. Therefore they do not function while playing blank tapes.

The remaining time display may not show the correct remaining time if the **Tape** function is incorrectly set, if you are using speed search, if you are using a special length cassette (such as T-10 length), or if you are using a VHS-C tape with an adapter. The remaining time display may not work correctly depending on your tape.

Displaying the Current Time

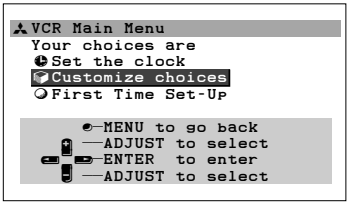
The current time is shown on the front panel display or the TV screen. If you have not set the clock, or if there has been a power failure of longer than 30 minutes, the display will show - : - -. The current time will be displayed when the VCR is off. To see the current time when the VCR is on:

1. Press DISPLAY twice. The counter will be replaced by the current time.
2. To turn off the current time, press DISPLAY again.



Customize Choices Menu

In the Customize Choices menu are 5 options that you can set. For each of the 5 options, start with these 2 steps:

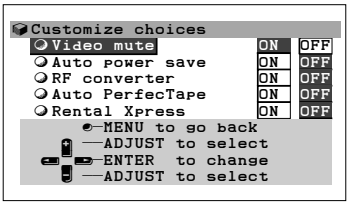


1 Press MENU on the remote control. VCR Main Menu appears on your TV.

2 Use the ADJUST buttons on the remote to select Customize choices. Press ENTER.

Video mute

When you turn video mute ON, any blank section of tape or many stations with a weak signal will be replaced by a blue screen. The sound will also be turned off. When you would like to try to tune in on a weak station, turn video mute OFF.



3 Complete steps **1** and **2** above. Customize choices menu appears. Use the ADJUST buttons to select Video mute. Press ENTER to set video mute to ON or OFF.

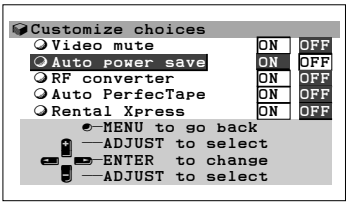
4 Press MENU twice to turn off the menus.

IMPORTANT

Video mute function may not work properly when you playback a section of a tape where only audio signals are recording.

Auto power save (auto-off)

When the Auto Power Save feature is turned on, the VCR will automatically turn off after remaining idle for 30 minutes. If a control, such as a menu function or channel selection, is used or if there is a tape playing or being recorded, the VCR will remain on.



3 Complete steps **1** and **2** above. Customize choices menu appears. Use the ADJUST buttons to select Auto power save. Press ENTER to set to ON.

4 Press MENU twice to turn off the menus.

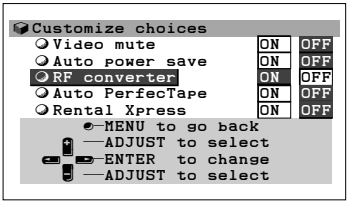
IMPORTANT

When viewing broadcast stations through the VCR, 3minutes→Power off will appear on the TV screen three minutes before the VCR power turns off. The display will count down the number of minutes until the VCR turns off. If you want to continue using the VCR, press any of the buttons.

Advanced Features

RF converter

If your TV has audio and video inputs, turn the RF converter OFF. If your TV does not have audio and video inputs, keep the RF converter set to ON. It is preset by the factory to ON.



3 Complete steps **1** and **2** on the previous page. Customize choices menu appears. Use the ADJUST buttons to select RF converter. Press ENTER to select ON or OFF.

4 Press MENU twice to turn off the menus.

> **IMPORTANT**
>
> If the RF converter is set to ON, you aren't required to press VCR/TV to play a tape or to use VCR menus. The VCR light will automatically light up when you press PLAY or MENU. Be sure to set the TV to the video channel (See page 10).

PerfecTape®

PerfecTape® is an exclusive Mitsubishi feature that tests the quality of video tapes you will record on. After each test, the VCR will adjust its internal circuitry in order to make the best possible recording on your tape.

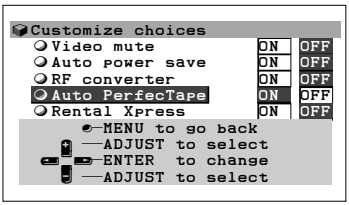
setting up PerfecTape®

You can set up PerfecTape® to function two ways.

If you want the VCR to automatically test any non-recorded tapes when the tape is loaded, select AUTO.

If you do not want the VCR to automatically test tapes, select MANUAL. PerfecTape® will now function only when you start a test. Any tape with the erasure prevention tab intact can be manually tested.

It will not automatically test recorded tapes – you must choose to test those yourself.



3 Complete steps **1** and **2** on the previous page. Customize choices menu appears. Use the ADJUST buttons to select PerfecTape.

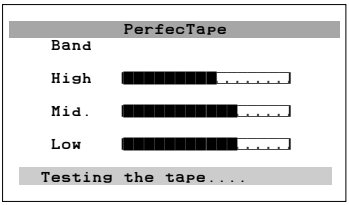
4 Press ENTER to set PerfecTape to AUTO or MANUAL.

5 Press MENU twice to turn off the menus.

using PerfecTape® automatically

1 Load a tape that has not been recorded into the VCR.

The VCR will display the testing status screen. When testing, the VCR records for one second, then evaluates the recording it made. The entire test takes about 8 seconds. If you wish to cancel the test, press STOP on the remote.



When the test is done, the VCR will display the rating of your tape for 8 seconds, indicating that the VCR has set its internal circuitry to make the best possible recording on this tape.

Advanced Features

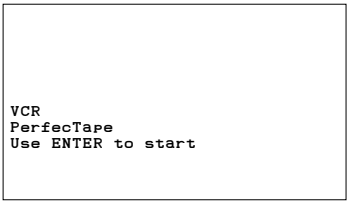
using PerfecTape® manually

1 Load a tape that has its erasure prevention tab intact into the VCR.

2 Find a portion of the tape that is OK to record over; this feature will record over one second of your tape.

3 Press AUDIO/VIDEO on the remote control. Function menu appears. Press AUDIO/VIDEO until the PerfecTape function appears.

4 Press ENTER on the remote to begin the test. To cancel the test, press STOP on the remote.



When the test is finished, the VCR will display the rating of your tape for 8 seconds. Turn off the display by pressing STOP on the remote control.

If you wish to erase the settings, eject the tape. The settings will also be erased if you press TIMER RESET or if the VCR loses power. After the test is finished, the PerfecTape function will not appear unless the tape is ejected.

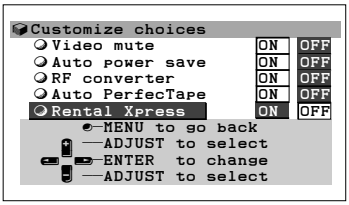
Rental Xpress

Rental Xpress is a feature, when activated, that will automatically rewind the tape to the beginning, eject and power off the VCR, after it has reached the blank section of 30 seconds or longer on any rental tape (or any tape with the erasure prevention tab removed). To activate this feature:

3 Complete steps **1** and **2** on page 46. Customize choices menu appears.

4 Press the ADJUST buttons to select Rental Xpress. Press ENTER to select ON or OFF.

5 Press MENU twice to turn off the menus.



IMPORTANT

While the VCR is rewinding to the beginning of the tape, you cannot use repeat playback, counter zero stop and index search.

Advanced Options

Using the remote control to operate your TV

The HS-U577 remote control can operate many of the frequently-used functions of your TV. You only need one remote to operate both your VCR and TV.

The HS-U577 remote control is pre-set to operate Mitsubishi televisions, but it can also operate TVs from other manufacturers. To set your remote control for your particular brand of television, follow these instructions.

setting up your remote control to operate your TV

1 Turn off your TV.

2 On the HS-U577 remote control, set the VCR/TV slide switch to TV position.

3 While holding in SP/EP, press the code button listed that corresponds to the brand of your TV.

4 Press TV POWER on the HS-U577 remote control. Once your TV has turned on, your remote is set up to operate your brand of TV.

If your TV does not turn on, repeat step **3** using the next code listed for the brand of your TV.

If none of the codes listed for the brand of your TV work, then repeat step **3** several times, using a different code button until one works. The possible code buttons are: 0, 1-9, MUTE, VOLUME ∧, ∨, CHANNEL∧, ∨ and INPUT.

You do not need to perform this set-up again until you change the batteries, set up your remote for another brand of television, or you get a new TV.

Once you have correctly set your remote control to operate your TV, you will be able to use the TV POWER, CHANNEL, VOLUME, and number buttons to operate your TV.

IMPORTANT

Because of variations among models, some or all buttons may not work, or they may operate different functions than expected for your particular TV. If this occurs, you may need to use your TV remote control.

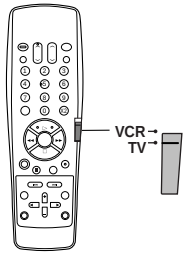
Sometimes manufacturers will change the remote control codes for their products, or they will use more than one code. If this is the case, your remote may not be able to control your TV.

When you replace the batteries in your remote, the remote may return to its initial setting (code button 1). Repeat the steps above to reset your remote control. If you enter a new code, the previous code will be erased.

Brand of TV	Brand code buttons
Mitsubishi	**1, 2, 3**
Fisher	0
G.E.	VOLUME ∧
Goldstar	2, 9
Hitachi	8
JVC	MUTE
Magnavox	4
NEC	2, 9
Panasonic	CHANNEL∧, ∨
Pioneer	6
Philips	4
Proscan	VOLUME ∧
Quasar	CHANNEL∨
RCA	VOLUME∧
Sanyo	0
Sharp	3, 5
Sony	VOLUME∨
Toshiba	7
Zenith	INPUT

Advanced Features

operating your TV with the HS-U577 remote control



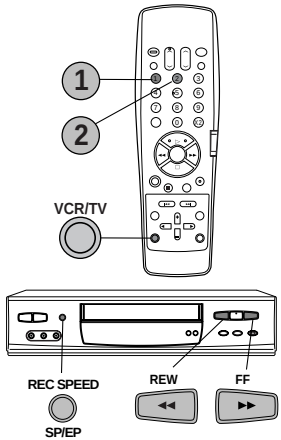
1 Set the VCR/TV slide switch to TV position on the HS-U577 remote control to tell the remote that you want to operate the TV.

2 Point the remote control towards the TV and press the desired buttons. To once again control the VCR, set the VCR/TV slide switch to VCR position.

To program the remote control operational setting

The HS-U577 has two remote control operational settings, VCR-A and VCR-B. These are available so you may separately control two Mitsubishi VCRs that are placed close together. The VCR-A setting can be used to operate any other Mitsubishi VCR introduced since 1986. Setting the HS-U577 to VCR-B will allow the HS-U577 be operated without the VCR responding at the same time.

To program the HS-U577 and the remote to VCR-B



For VCR:

1 Make sure the HS-U577 is plugged in but turned off. On the VCR front panel, press REC SPEED and REW at the same time. To confirm that the VCR responds to VCR-B signals, **b** appears on the front panel display.

For remote:

2 On the remote, make sure the VCR/TV slide switch is in the VCR position, then press VCR/TV and number “2” at the same time. The remote will now send VCR-B signals.

When you wish to operate the other VCR

1 On the remote, with the VCR/TV slide switch in the VCR position, press VCR/TV and the number “1” at the same time. The remote will now send VCR-A signals.

To reprogram the HS-U577 to respond to VCR-A signals again

1 Make sure the HS-U577 is plugged in but turned off. On the VCR front panel, press SP/EP and FF at the same time. To confirm that the VCR responds to VCR-A signals, **A** appears on the front panel display.

IMPORTANT

Some other models of Mitsubishi VCRs can respond to VCR-B signals. If your other VCR is one of these models, and you would like to program the other VCR to respond to VCR-B signals, refer to the owner’s guide that came with the other VCR.

Some of the buttons may not function or they may operate different features than expected for the other VCR, particularly, those Mitsubishi VCR’s that are more than 10 years old because Mitsubishi changes the codes from time to time.

Child Lock

The child lock feature prevents others from using your VCR. To lock the VCR:

1 Press and hold down DISPLAY on the remote control for about 8 seconds. “LOC” will appear on the front panel display for 4 seconds.

During the child lock feature is in use, LOC display will reappear when you press any of the buttons.

2 To cancel the child lock, press and hold down DISPLAY for about 8 seconds.

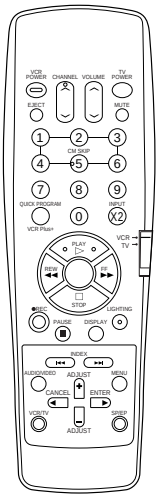
The LOC display will reappear when DISPLAY is pressed, and when you hold down this button, it will go out to show the child lock is cancelled.

IMPORTANT

You can lock the VCR with the power off, even if the VCR is standing by for a programmed recording. If you lock the VCR with no cassette in it, the VCR will not accept a cassette.

Location of Controls

Remote Control



VCR POWER
Turns the VCR on or off. If you have programmed the VCR to record, you need to turn the VCR off.

EJECT
Ejects a tape.

CHANNEL Up and Down
Selects next higher or lower channel in the VCR's or TV's channel memory.

VOLUME Up and Down
Raises and lowers the sound of the TV. (Operates the TV only)

TV POWER
Turns the TV on or off. You need to program your remote to operate your particular brand of television.

MUTE
Turns off the TV sound. Press again to restore the TV sound to its previous volume. (Operates the TV only)

Number buttons
Selects TV stations, enters PlusCode numbers.
Sets quick search (CM skip) time.

QUICK PROGRAM/VCR Plus+
Goes to VCR gold Plus+ Program menu.
Exits the programming screen.

INPUT/X2
Select between the antenna and any other video equipment that may be connected.
Use double speed playback when playing a tape.

PLAY ▷
Plays a tape.

STOP □
Stops a tape.

REW ◀◀
Rewinds a tape or reverse searches.

FF ▶▶
Fast forwards a tape or fast forward searches.

VCR/TV slide switch
Operates the VCR when set to the VCR position, the TV when set to the TV position. You need to program your remote to operate your particular brand of television.

● REC
Starts recording. While recording, adds manual index mark.

PAUSE ❚❚
Pauses a tape when recording.
Freezes a frame when playing a tape.

DISPLAY
Displays on the TV screen:
- Time elapsed on the tape
- Time left on the tape, current time
- Channel number and audio reception mode
- Audio channel(s) selected
- Source supplying the VCR with a signal
- If the VCR is stopped, playing, or recording

Turns the Child Lock on and off.

LIGHTING
Lights up the PLAY, STOP, REW, FF buttons.

INDEX ❙◀◀, ▶▶❙
Begins index search forward and backward.
Controls the playback speed of a tape.

AUDIO/VIDEO
Selects the audio and video settings to be adjusted.

MENU
Displays the menus. Exits the menus.

CANCEL
Cancels menu selections.
Resets the counter display to "0H00M00S."

ADJUST +, –
Selects and adjusts menu selections.

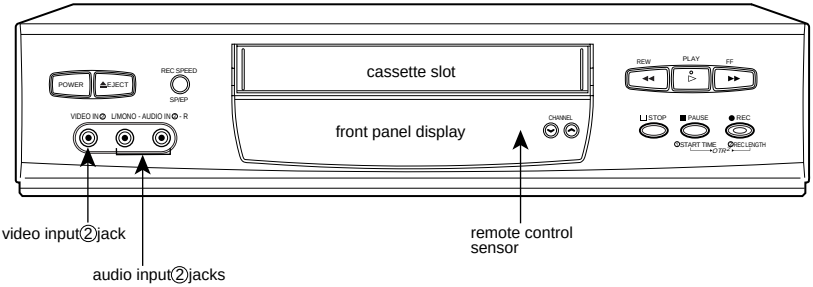
ENTER
Enters menu selections.

VCR/TV
Switches between the VCR's picture and the TV's tuner.

SP/EP
Changes the recording speed. (SP is standard play; EP is extended play).

Location of Controls

Front Panel



POWER
Turns the VCR on or off.
If you have programmed your VCR to record, turn off your VCR.

⏏ EJECT
Ejects a tape.

REC SPEED SP/EP
Changes the recording speed (SP is standard play; EP is extended play).

video input ② jack
Connect source here, such as a VCR or camcorder, to record or dub video.

audio input ② jacks
Connect source here, such as a VCR or camcorder, to record or dub audio.

cassette slot
Insert the video cassette tape here.

front panel display
See the next page.

remote control sensor
Receives signals from the remote control.
Do not block it.

CHANNEL
Changes channels.
Adjusts tracking and picture vibration.

REW ◄◄
Rewinds a tape or reverse searches.

PLAY ▷
Plays a tape.
Resumes normal playback from special effects.

►► FF
Fast forwards a tape or fast forward searches.

☐ STOP
Stops a tape.

❚❚ PAUSE/①START TIME
Pauses a tape when recording.
Freezes a frame when playing a tape.
Sets the start time in OTR[2] recording.

● REC/②REC LENGTH
Records to the end of the tape by pressing once.
Sets the recording time for OTR recording by pressing repeatedly.

Location of Controls

Front Panel Display

POWER light : PWR
Lights up during the VCR power is on.

VCR light : VCR
Indicates that the picture is controlled by the VCR.

Cassette light :
Lights up when a tape is in the VCR.

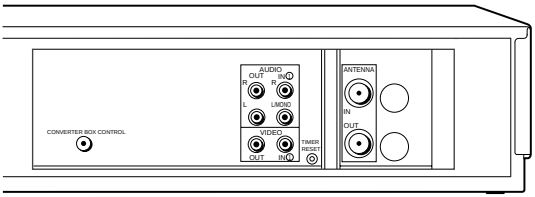
time display
This area displays:
- current time
- OTR and OTR[2] timer

Record light : REC
Lights up during the VCR is recording.
Flashes when the VCR is in recording pause mode.

Programmed recording light :
Lights up when VCR is off and it is programmed to record.

PM light : PM
Lights up when the current time or start time of OTR[2] is in the afternoon.
Turns off when they are in the morning.

Rear Panel Jacks



CONVERTER BOX CONTROL jack
Connects IR Emitter to a cable box and/or satellite receiver.

AUDIO INput and OUTput jacks
Red and white jacks for receiving (IN) and sending (OUT) audio signals. Red signifies the right channel, and white signifies the left channel. Stereo audio cables are also color coded red and white. If you are receiving or sending a mono (non-stereo) signal, you should use only the left (white) terminal.

VIDEO INput and OUTput jacks
Yellow jacks for receiving (IN) and sending (OUT) video signals to a monitor TV or from another VCR.

ANTENNA IN jack
Attach an external antenna or cable to bring in an outside signal.

ANTENNA OUT jack
Attach a coaxial cable to your TV to send out antenna/cable signals from the VCR to your TV.

TIMER RESET
Erases all programmed recording settings and resets the clock. Use this button with care.

Trouble Checks

If your VCR malfunctions, try the following steps prior to contacting your Mitsubishi Dealer:

1 Check the **Trouble Checks** on the next page to see if there is a solution to the current problem that you are experiencing.

2 If the problem is not addressed on the **Trouble Checks** page, the safety circuits in the VCR may be in operation, thus please try the following: (the clock setting and the timer recording will be deleted.)

1 If possible, press EJECT on the front panel and remove the tape.

2 Press TIMER RESET on the rear panel with a pencil or a ball point pen.

3 If a tape is not loaded, press POWER to turn the power on. If a tape is loaded, wait about 1 minute until the tape protecting function is completed, then press POWER.

3 You may also try the following procedure if the above steps did not resolve the problem. (All settings will be reset to the default settings.)

1 Press POWER on the front panel continuously for about 8 seconds until the current time display on the front panel shows “- : - -”.

2 If a tape is not loaded, press POWER to turn the power on. If a tape is loaded, the tape protecting function will work and “99” will appear on the front panel display to begin count down. Wait about 1 minute until it reaches “00” to show the tape protecting function is completed, then press POWER.

If the problem with your VCR persists, contact your Mitsubishi dealer for assistance.

Problem	Try This...
The VCR won’t turn on.	• Check the power cord and the AC outlet. • Is the child lock in use? If so, press and hold DISPLAY on the remote for more than 8 seconds until the LOC display turns off.
The VCR power is on but no controls work.	• Is the child lock in use? If so, press and hold DISPLAY on the remote for more than 8 seconds until the LOC display turns off. • Set the VCR/TV slide switch to VCR position. • Press TIMER RESET on the rear panel.
You can’t see the VCR’s picture on your TV.	• Check the TV’s input setting. • Check to see that your VCR is not set to **L1** or **L2**.
Poor picture when watching the VCR’s tuner on your TV.	• Check to see if your TV is set to the correct channel or input. • Check your TV’s fine tuning, if using an older TV. • Check your connections to make sure they are secure.
VCR REC button doesn’t function.	• Check the erasure prevention tab on the tape cassette.
No picture during recording.	• Check the hook-up. • Check to see if your TV is set to the correct channel or input.
VCR does not record TV program.	• Check the VCR tuning. • Check the input selection on the VCR. Does the channel display on the TV screen show **L1** or **L2**? If so, switch it to tuner by pressing INPUT.

Trouble Checks

Problem	Try This...
The VCR timer recording does not operate.	• Check that the programmed recording light lights up in the front panel display. • Check the clock time. • Make sure you have turned the VCR off before the start time.
Noise in the picture and distorted sound.	• Check the tracking control. Adjust manually if necessary.
Poor or no Hi-Fi sound.	• Check the monitor settings. • Check the quality of the video tape.
Playback is noisy or “snowy”.	• Try automatic head cleaning. • Clean the video heads using a dry-type video head cleaning cassette. Do not use a wet-type cleaning cassette, as it may damage your VCR. Excessive use of a cleaning cassette could shorten head life. Follow the cleaning instructions carefully. • Have the VCR video heads cleaned by a qualified service technician.
VCR remote does not function.	• Check that remote mode of the VCR and your remote are set correctly (VCR-A or VCR-B). • Check to see that the VCR/TV slide switch is set to the correct position. • Change the batteries.
Your converter box or satellite receiver does not respond to any signals from the VCR’s IR Emitter.	• Try moving the IR Emitter so that there is a clear line of sight between the Emitter and the box’s remote sensor. • Check that the IR Emitter is connected properly. • Sometimes a cable box need to be set by the cable company to receive signals. Contact your cable company.
The fast forwarding/rewinding speed is slow.	• In order to protect your tapes and the VCR heads, the Fast Forwarding/Rewinding Speed will be slower than 500x under the following conditions: 1 Use of tapes shorter in length than T-120 (for example, T-30, T-60, T-90). 2 Activating fast forwarding or rewinding from the middle of the tape.

Specifications

FORMAT	VHS NTSC standard with Hi-Fi audio
VIDEO SIGNAL SYSTEM	EIA standard; NTSC color
RECORD/PLAYBACK SYSTEM	Video -- 4 heads Audio -- 2 Hi-Fi channels and 1 monaural audio control
ANTENNA	75-ohm external VHF/UHF combined antenna terminal
TUNER	181 channels capability VHF -- Channels 2 - 13 UHF -- Channels 14 - 69 CATV -- Channels 1-125
HORIZONTAL RESOLUTION	more than 220 lines (SP) more than 210 lines (EP)
SIGNAL-TO-NOISE RATIO	more than 45 dB (SP) more than 46 dB (EP)
TIMER PROGRAM CAPACITY	1-month programmable/8 programs
MEMORY BACKUP TIME	approx. 30 minutes
MAXIMUM RECORDING TIME	120 min. with T-120 video cassette (SP)
T-120 tape	360 min. with T-120 video cassette (EP)
REWIND TIME	approx. 48 seconds for T-120 cassette (full recorded tape)
POWER REQUIREMENT	120V AC, 60 Hz
POWER CONSUMPTION	20 Watts -- 4.0 Watts standby
DIMENSIONS	3-5/8 in Height x 16-3/4 in Width x 11-13/16 in Depth (93 mm x 425 mm x 300 mm)
WEIGHT	8.2 lbs approx. (3.7 kg)
SUPPLIED ACCESSORIES	1 set coaxial cable 1 IR emitter 1 remote control 2 “AA” size batteries

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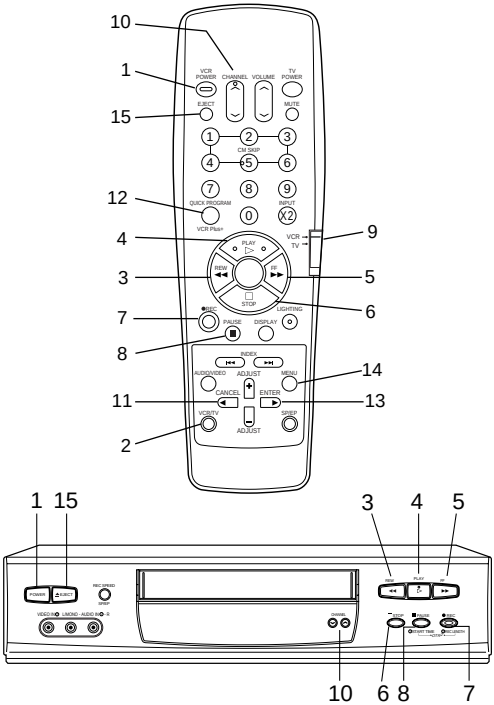
Guía de Operación Básica de la Videogarabadora



Funciones básicas

1 botón de encendido (VCR POWER)
Oprima este botón para encender o apagar la videograbadora.

2 botón de modalidad (VCR/TV)
Oprima este botón para cambiar entre el sintonizador o salida de la videograbadora y el sintonizador del televisor.

3 botón de rebobinado (REW)
Utilice este botón para rebobinar una cinta.

4 botón de reproducción (PLAY)
Oprima este botón para comenzar la reproducción de una cinta.

5 botón de adelanto (FF)
Utilice este botón para adelantar una cinta.

6 botón de parada (STOP)
Oprima este botón para detener la reproducción de una cinta.

7 botón de grabación (REC)
Utilice este botón para comenzar la grabación.

8 botón de pausa (PAUSE)
Utilice este botón para pausar o congelar una cinta.

9 selector de aparato (VCR,TV)
Utilice este selector para usar el control remoto para operar la videograbadora (VCR) o su televisor (TV).

10 botón de cambio de canales (CHANNEL)
Oprima este botón para cambiar canales en la videograbadora.

11 botón de cancelación (CANCEL)
Oprima este botón para cancelar selecciones en los menús en pantalla, o para poner el contador de tiempo en “0H00M00S”.

12 botón de programación rápida (QUICK PROGRAM/VCR Plus+)
Oprima este botón para ver de inmediato el menú de programar grabaciones “Programar grabaciónes”, donde puede ingresar un código de VCR Plus+ o oprimir ENTER para programar de manera convencional.

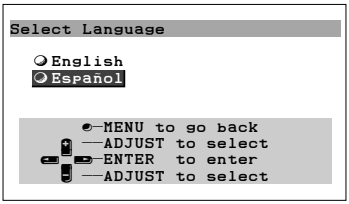
13 botón de ingreso (ENTER)
Oprima este botón para ingresar selecciones en los menús en pantalla.

14 botón de menú (MENU)
Oprima este botón para utilizar el sistema operativo de menús en pantalla.

15 botón de expulsión (EJECT)
Oprima este botón para sacar la cinta.

Guía de Operación Básica de la Videograbadora

Cómo seleccionar el idioma de el sistema operativo de menús en pantalla



1 Si nunca se ha usado la videograbadora, vaya al paso **3**.

2 Oprima el botón TIMER RESET en el panel trasero de la videograbadora.

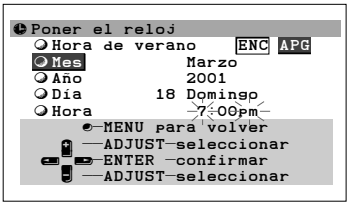
3 Oprima el botón POWER para encender la videograbadora.

4 Oprima el botón MENU en el control remoto.

5 Verá el menú de seleccionar el idioma Select Language. Utilice los botones de adjuste ADJUST+ o ADJUST– para seleccionar el idioma.

6 Después de seleccionar el idioma que desea, oprima el botón ENTER. Luego oprima el botón MENU para salir de los menús.

Cómo poner el reloj



1 Oprima el botón MENU en el control remoto para ver el Menú Principal.

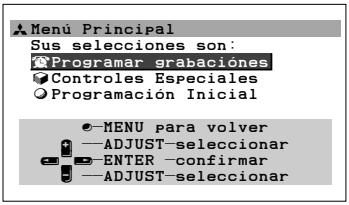
2 Utilice los botones de ajuste ADJUST+ o ADJUST– para seleccionar el menú de Programación Inicial; luego oprima el botón ENTER.

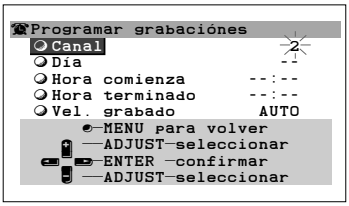
3 Utilice los botones de ajuste ADJUST+ o ADJUST– para seleccionar el menú de Poner el reloj; luego oprima el botón ENTER.

4 Utilice los botones de ajuste ADJUST+ o ADJUST– y ENTER para programar el mes, año, día, hora y selección de hora de verano.

5 Al completar las selecciones de poner el reloj, oprima el botón ENTER. Ahora oprima el botón MENU tres veces para salir de los menús.

Cómo programar la videograbadora para grabar





1 Oprima el botón MENU en el control remoto para ver el Menú Principal.

2 Utilice los botones de ajuste ADJUST+ o ADJUST– para seleccionar el menú de Programar grabaciónes; luego oprima el botón ENTER.

3 Utilice los botones de ajuste ADJUST+ o ADJUST– y ENTER para programar el canal, día, la hora y minutos de comienzo, la hora y minutos de terminado y la velocidad de grabación.

4 Al completar las selecciones de programar grabaciones, oprima el botón ENTER. Despúes oprima el botón MENU dos veces para salir de los menús. Asegúrese de insertar una cinta en blanco para hacer su grabación y que la videograbadora este apagada.

Warranty

MITSUBISHI
VIDEO CASSETTE RECORDER
LIMITED WARRANTY

MITSUBISHI DIGITAL ELECTRONICS AMERICA, INC. (MDEA) warrants to the original purchaser of this video cassette recorder if purchased from an authorized MITSUBISHI Audio/Video Dealer that, should it prove defective by reason of improper workmanship and/or material:

a. **Parts.** For one year from the date of original purchase at retail, we will repair or replace, at our option, any defective part including the video head without charge for the part. Parts used for replacement are warranted for the remainder of the original warranty period.
b. **Labor.** For ninety days from the date of original purchase at retail, we will provide the labor for a warranty repair without charge at an authorized MITSUBISHI service center.
c. **Notice.** To obtain warranty service, you must notify an authorized MITSUBISHI service center of any defect within the applicable warranty time period.

1 TO OBTAIN WARRANTY SERVICE, deliver your VCR to the nearest MITSUBISHI service center. Shipping expenses are your responsibility. The name and address of the nearest service center can be obtained from your MITSUBISHI Dealer, or by writing or calling MDEA at the address and telephone number below. Proof of purchase date from an authorized MITSUBISHI Dealer is required when requesting warranty service. Present your sales receipt or other document which establishes proof and date of purchase. THE RETURN OF THE OWNER REGISTRATION CARD IS NOT A CONDITION OF WARRANTY COVERAGE. However, please detach and return the Owner Registration Card so that we can contact you should a question of safety arise which could affect you.

2 THIS WARRANTY DOES NOT COVER damage caused by: modification, alteration, repair or service of this product by anyone other than an authorized MITSUBISHI service center; physical abuse to, or misuse of, the VCR; operation in a manner contrary to the instructions which accompany the VCR; freight damage; or any damage caused by acts of God such as lightning or fluctuation in electrical power. This warranty also excludes all costs arising from installation, adjustment of user controls, external antenna systems, service of products purchased or serviced outside the U.S.A., initial technical adjustments (set-up) and user-required maintenance including head cleaning. Consult the operating instructions enclosed with the product for information regarding user controls.

3 ANY EXPRESS WARRANTY NOT PROVIDED HEREIN, AND ANY REMEDY WHICH, BUT FOR THIS PROVISION, MIGHT ARISE BY IMPLICATION OR OPERATION OF LAW, IS HEREBY EXCLUDED AND DISCLAIMED. THE IMPLIED WARRANTIES OF MERCHANT-ABILITY AND OF FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY LIMITED TO A TERM OF ONE YEAR.

4 UNDER NO CIRCUMSTANCES SHALL MDEA BE LIABLE TO PURCHASER OR ANY OTHER PERSON FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, WHETHER ARISING OUT OF BREACH OF WARRANTY, BREACH OF CONTRACT, OR OTHERWISE.

5 Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental, special, or consequential damages, so the above limitations or exclusions may not apply to you.

6 This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

7 BEFORE REQUESTING SERVICE, please review the instruction booklet to insure proper installation and correct customer control adjustment. If the problem persists, contact your nearest MITSUBISHI Dealer for name(s) of authorized MITSUBISHI Service Center(s). If you are unable to obtain the information, please call 1-800-332-2119, or write us at the address below.

MITSUBISHI DIGITAL ELECTRONICS AMERICA, INC.
9351 Jeronimo Road
Irvine, CA 92618-1904

MITSUBISHI

For your nearest Mitsubishi Authorized Service Center
call 1-800-332-2119

RETAIN THIS PORTION FOR YOUR RECORDS

SERIAL NO. _____

CUSTOMER NAME _____

STREET ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE (_____) _____ PURCHASE DATE _____/_____/_____

MO DAY YR

PLACE OF PURCHASE _____

PHONE (_____) _____

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THE BIG SCREEN COMPANY™

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