

VHS SQPB Extra 19µm HEAD 4 HEAD (MONO) VCR/M⁺⁺ STEREO TV

TV/VCR COMBO USER'S GUIDE FOR MODEL TV-20240



(Illustration of TV-20240 and RM-C139)

IMPORTANT NOTE TO THE CUSTOMER:

Enter the serial number for your television (located on the rear of the television cabinet) on the space below. Staple your sales receipt or invoice to the inside cover of this guide. Keep this user's guide in a convenient place for future reference. Keep the carton and original packaging for future use.

Serial Number

IMPORTANT SAFETY PRECAUTIONS



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 appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS TV SET TO RAIN OR MOISTURE.

- **CAUTION:** TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.
 - 1. Operate only from the power source specified on the unit.
 - 2. Avoid damaging the AC plug and power cord.
 - 3. Avoid Improper installation and never position the unit where good ventilation is unattainable.
 - 4. Do not allow objects or liquid into the cabinet openings.
 - 5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Changes or modifications not approved by JVC could void the warranty.

* When you don't use this TV set for a long period of time, be sure to disconnect both the power plug from the AC outlet and antenna for your safety.

* To prevent electric shock do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

IMPORTANT SAFEGUARDS

CAUTION:

Please read and retain for your safety.

Electrical energy can perform many useful functions. This TV set has been engineered and manufactured to assure your personal safety. But *improper use can result in potential electrical shock or fire hazards*. In order not to defeat the safeguards incorporated in this TV set, observe the following basic rules for its installation, use and servicing. And also follow all warnings and instructions marked on your TV set.

INSTALLATION

1 Your TV set is equipped with a polarized AC line plug (one blade of the plug is wider than the other).

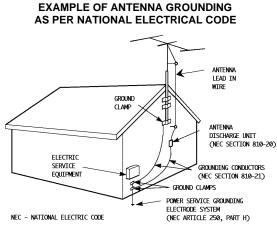
(POLARIZED-TYPE)



This safety feature allows the plug to fit into the power outlet only one way. Should you be unable to insert the plug fully into the outlet, try reversing the plug. Should it still fail to fit, contact your electrician.

- 2 Operate the TV set only from a power source as indicated on the TV set or refer to the operating instructions for this information. If you are not sure of the type of power supply to your home, consult your TV set dealer or local power company. For battery operation, refer to the operating instructions.
- Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.
- **4** Do not allow anything to rest on or roll over the power cord, and do not place the TV set where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.
- 5 Do not use this TV set near water for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near swimming pool, etc.

- 6 If an outside antenna is connected to the TV set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection requirements for the grounding electrode.
- 7 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.



- 8 TV sets are provided with ventilation openings in the cabinet to allow heat generated during operation to be released. Therefore:
 - Never block the bottom ventilation slots of a portable TV set by placing it on a bed, sofa, rug, etc.
 - Never place a TV set in a "built-in" enclosure unless proper ventilation is provided.
 - Never cover the openings with a cloth or other material.
 - Never place the TV set near or over a radiator or heat register.
- 9 To avoid personal injury:
 - Do not place a TV set on a sloping shelf unless properly secured.
 - Use only a cart or stand recommended by the TV set manufacturer.
 - Do not try to roll a cart with small casters across thresholds or deep pile carpets.
 - Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

USE

- 10 Caution children about dropping or pushing objects into the TV set through cabinet openings. Some internal parts carry hazardous voltages and contact can result in a fire or electrical shock.
- **11** Unplug the TV set from the wall outlet before cleaning. Do not use liquid or an aerosol cleaner.
- 12 Never add accessories to a TV set that has not been designed for this purpose. Such additions may result in a hazard.

- **13** For added protection of the TV set during a lightning storm or when the TV set is to be left unattended for an extended period of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to product due to lightning storms or power line surges.
- 14 A TV set and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the TV set and cart combination to overturn.



SERVICE

- **15** Unplug this TV set from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the TV set.
 - C. If the TV set has been exposed to rain or water.
 - D. If the TV set does not operate normally by following the operating instructions. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV set to normal operation.
 - E. If the TV set has been dropped or damaged in any way.
 - F. When the TV set exhibits a distinct change in performance — this indicates a need for service.
- 16 Do not attempt to service this TV set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 17 When replacement parts are required, have the service technician verify in writing that the replacement parts he uses have the same safety characteristics as the original parts. Use of manufacturer's specified replacement parts can prevent fire, shock, or other hazards.
- 18 Upon completion of any service or repairs to this TV set, please ask the service technician to perform the safety check described in the manufacturer's service literature.
- **19** When a TV set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the TV set.

20 Note to CATV system installer.

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

PRECAUTIONS ABOUT VIDEO

Before operating the video unit, please read the precautions on this page.

Precautions for Recording TV Programs

About Copyright

The recordings you make from TV programs or prerecorded tapes cannot be used without permission from the copyright holders, except when they are used solely for personal enjoyment.

Trial Recording Before Making Important Recordings

Make a trial recording before an important program to be sure that you can record and playback audio and video properly.

Disclaimer:

JVC assumes no liability for failure to record or playback audio and video properly with this unit.

Precautions About Video Cassettes

Keep these points in mind while working with video cassettes.

Recording

- If you record on a previously recorded tape, the original content will be automatically erased.
- Video cassettes cannot be reversed or "flipped over" like audio cassettes.

Handling Cassettes Properly

- To store cassettes, place them inside their cases. The cases should then be stored vertically.
- Do not drop cassettes, or give them any other hard shock.
- Rewind cassettes before storing.
- Do not repeatedly load and unload tapes without running them in between.

Do Not Store in the Following Places

- Exposed to direct sunlight or near a heating device.
- Exposed to excessive humidity, smoke, or dust.
- Near a strong magnet (including speakers).

Prevent Accidental Erasur

Remove the small plastic tab at the rear of the cassette. Without this tab, the cassette cannot be used for recording. It is recommended that you remove the tabs from important cassettes to prevent accidental erasure. To record on a cassette whose tabs have ben removed, cover the tab hole with two layers of adhesive tape.

e

Precautions About Moistur e Condensation

What is Moisture Condensation?

When you put cold water into a glass, water droplets form on its surface. This phenomenon is called moisture condensation.

If Moisture Condensation Occurs

The video unit may fail to operate, or may operate erratically potentially damaging the unit and video cassettes.

When Does Condensation Occur?

- When equipment is moved from a colder to a warmer place.
- Immediately after a room heater is started.
- When the unit is exposed to a cold air flow (like from an air conditioner)
- In high humidity or when steam is present.

To Prevent Condensation

- Wait about an hour before operating the unit so that it can become accustomed to the room conditions.
- Provide proper ventilation.

If the unit fails to operate or operates poorly and you think condensation may be the cause, turn the unit's power off and wait a few hours before trying to operate the unit again.

Enjoying Clear Video Cleaning the Video Heads

After a long, or frequent use, the video heads inside the unit may become dirty, possibly resulting in poor picture quality. To prevent this from happening, it is recommended you clean the unit frequently with a head cleaning cassette (TCL-2 or 3, sold separately).

If Video Quality is Still Poor After Cleaning

Try cleaning the unit two or three times instead of just once. If the repeated cleaning still fails to produce better picture quality, an internal malfunction may be the cause. Call your local dealer for servicing.

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Video Heads beginning to get dirty



Video Heads now fairly dirty



Video Heads totally clogged



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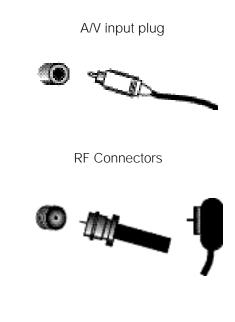
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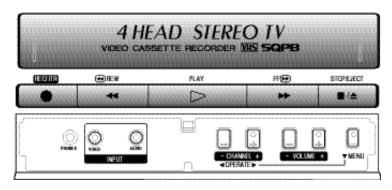
CONNECTIONS CHECKLIST — READ ME FIRST!

The Connections Checklist — Read Me First! section of this guide is a list of ideas to keep in mind when you set out to perform your connections. It is designed to help us not-so-technically-advanced individuals. If you read this section, and can't identify the plugs, connectors, and components you have, do not be afraid to seek help.

- Always refer to the connection instructions in the user's guide for your components first! The manufacturer will provide the most detailed information about their products.
- 2) Know your jacks and plugs most are color coded:
 - Yellow plugs are Video connections
 - · Red plugs are Right Audio connections
 - White or black plugs are Left Audio (Mono) connections (if your camcorder is a stereo model, use a stereo-to-monaural conversion cable to connect to the Combo unit. Conversion cables may be purchased separately.)
- **3) Perform one hookup at a time.** If you have many accessories to connect, make sure each connection is correct by checking to see that it works properly before attempting the next connection.
- 4) Unplug the power cord between each connection.



FRONT PANEL DIAGRAM



TV-20240 Front Panel

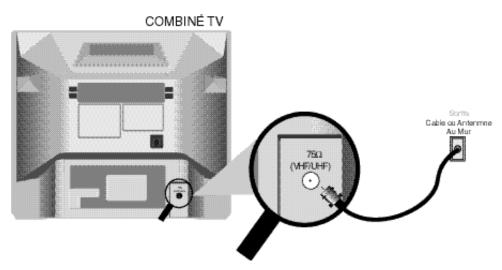


CABLE BOX CONNECTION

There are two basic types of antenna/cable hook-ups. They are easy to distinguish.

Type 1:

If you use an antenna or have a cable television system that does not require the use of a decoder box to receive signals, use the diagram below to connect your TV/VCR combo.

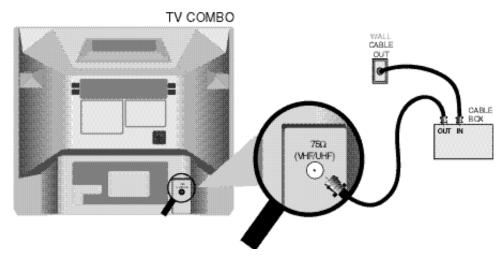


1) Connect the cable or antenna wire *out* from the wall *in* to the TV VHF/UHF input at the rear of the combo unit.

2) Plug the power cord into a nearby AC outlet.

Type 2:

If you use an cable box to access any or all channels, use the diagram below.

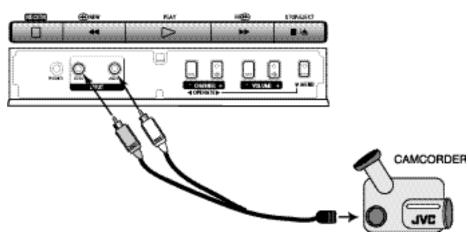


- 1) Connect the cable wire *out* from the wall *in* to the cable box RF input.
- 2) Connect an RF cable out from the cable box in to the TV VHF/UHF input.
- 3) Plug the power cord into a nearby AC outlet.



CONNECTING TO A CAMCORDER

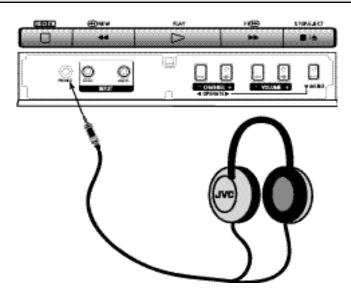
You can connect a camcorder right to your TV/VCR combo using the input jacks located at the front of the unit.



- 1) Press on the PUSH mark on the front panel door to open it.
- 2) Connect a yellow video cable from the cam-corder output into the TV's Video input jack.
- 3) Connect a white (or Black) Mono audio cable from the camcorder output into the TV's audio input jack.
- □ Refer to the camcorder's instructions for further information about the camcorder.

CONNECTING TO HEADPHONES/EARPHONES

You can connect earphones or headphones to your TV/VCR combo using the input jack at the front of the unit.

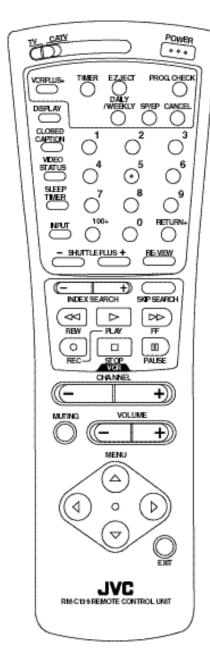


- 1) Press on the PUSH mark on the front panel door to open it.
- 2) Insert the earphone/headphone plug into the phones input jack.
- □ Refer to the headphones or earphones instructions for further information.



REMOTE CONTROL

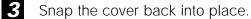




CHANGING THE BATTERIES

Be sure to use only size AA batteries.

- Push down on the remote's back cover and slide towards the bottom to remove it.
- Insert the two supplied AA batteries, carefully noting the "+" and "-" markings on the batteries and remote control. To avoid a short circuit, insert "-" end first.



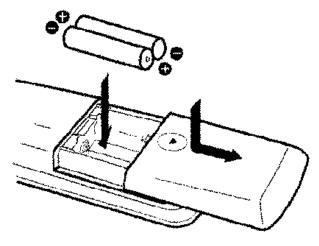
- □ If the remote control acts erratically, replace the batteries. Typical battery life is usually about one year.
- D We recommend alkaline batteries for a longer battery life.

NOTE:

1

2

When you change the batteries, try to complete the task within 3 minutes. If it takes longer than 3 minutes, the remote control codes for your Cable box will have to be reset (page 10).



RM-C139



GETTING STARTED

POWER

- Press the Power button on the remote control or the TV/VCR combo front panel. The On Timer lamp will glow red.
- Make sure that the TV/CATV switch on the remote is set to TV. Switch to CATV only if you plan to operate a cable box. If you switch to CATV you will not be able to operate the TV/VCR combo functions with the remote, only the cable box functions!
- To turn the power off, press the Power button again. The On Timer lamp will go out.
- The On Timer lamp will glow green when the On/Off Timer is set to yes, even when the TV power is off.

ADJUSTING VOLUME

1 Adjust the volume with the Volume –/+ buttons on the TV/VCR combo front panel or on the remote control. Press the Volume – button to lower the volume. Press the Volume + button to raise the volume.



2 Press the MUTING button to instantly turn the volume off to zero. To restore the volume to the previous volume level, simply press the MUTING button again.

CHANGING CHANNELS

1 10 key direct access.

Press the numbers on the remote's 10 key pad. For single-digit channel numbers press 0 then the number. For channels above 100, press the 100+ button plus the 2-digit number.

2 CHANNEL -/+ button.

Press the CHANNEL -/+ button, to scan the channels in order.

□ After you operate the Auto Tuner Setup (page 12), all of the blank, or empty, channels will be removed from scanning so that there is no noise or channel snow when you scan, only active channels.

3 Return.

Press the RETURN button to return to the previous channel. First, select a channel (game #1). Then, select another channel (game #2) with the 10 key pad and push the RETURN button to flip directly back and forth.

REMOTE PROGRAMMING



SETTING THE CATV CODES

Many CATV brands have more than one code. If the first code in the list does not work, try the other codes listed. If your CATV box does not respond to any of the codes listed for the manufacturer, use the remote control for theCATV box to operate it.

CABLE BOX OR SATELLITE SETUP

The remote is programmed with the CATV and Satellite codes for power on and off, 10 key, and channel up and down.

- 1) Determine the correct code from the "CATV & Satellite Codes" chart below.
- 2) Slide the 2-Way Mode Selector Switch to CATV.
- 3) Press and hold down the DISPLAY button.
- 4) Enter the 3-digit code with the 10 key pad while continuing to hold down the DISPLAY button.
- 5) Release the DISPLAY button.
- 6) Confirm the operation of the cable box.

CATV & Satellite Codes

CABLE BOXES	CODES	CABLE BOXES	CODES	CABLE BOXES	CODES
ABC	035 001 011 002 009 033 091	Memorex	007	Starquest	004
1.00	055	Movietime	032 039 029 042 044 088 040	Sylvania	019 035
Antronix	044		038 060	Tandy	062
Archer	029 001 044 088 091 063 042	NSC	038 040 032	Teknika	074 054
,	030 052 076	Oak	011 046 010 012 047	Telecaption	092 077
Belcor	082	Panasonic	016 017	Teleview	032 040 042 078 094
Cable Star	082	Paragon	007	Texscan	018 019 035
Cabletenna	029 001 044 088 091 076	Philips	013 020 023 024 096 030 084	Tocom	033 034 048 049 001 042
Cableview	063 044 042 030 052 088	Pioneer	005 006 078		091 073
Century	063 044 042 030 052 088	Popular Mechanics	059	Toshiba	036 007 066 070
Citizen	063 044 042 030 052 088	Pulsar	063 044 042 030 052 088 007	Tusa	004
Colour Voice	023	Quest	001 002 003 004 034 055 083	TV86	040
Comtronice	042 021		085 091 093 095	Uniden Satellite	065 069
Contec	010	RCA	016 017	Unika	029 001 044 088 091 063
Curtis	008 009 056 061 087 090	Realistic	051 044 088 053		042 030 052 076
Diamond	029 001 044 088 091 076	Recoton	059 063 044 042 030 052 088	United Artists	011
Drake	037 067 071	Regal	014 041	United Cable	001
Eagle	013 022 058 062 020 040 026	Regency	028 099	Universal	042 043 044 052 063 088
ũ	021	Rembrandt	032 039 029 042 044 088 002		082
Eastern	028 099		060	Videoway	007 050 023 045
Focus	059	Runco	007	Vid Tech	064
GC Electronics	063 044 042 030 052 088 082	Salora	068 072	Vidter	064
Gemini	004 085 032 030	Samsung	016 017 006 032 040 042 078	Viewstar	013 022 058 062 020 040
General Electric	057		094		026 021
General			a 008 009 056 061 087 090	Zenith	007 050 023 075
Instruments	001 002 003 004 034 055 083	Sheritech	027	Zentek	059
	085 091 093 095	Signal	013 022 058 062 020 040 026		
Gerrard	063 044 042 030 052 088		004 042 032 078 094 021 038	SATELLITE	CODES
Hamlin	014 015 028 041 099	Signature	002		
Hitachi	031 079 002 080	SL Marx	032 040 042 078 094 063 044	RCA	097
Hytex	011	_	030 052 088	Sony	098
Jerrold	001 002 003 004 034 055 083	Sprucer	016 017	Gradiente	100
	085 091 093 095	Standard			
Macom	031 079 080	Components	032 039 029 042 044 088 018		
Magnavox	025 026 013	<u>.</u>	060 063 052 030		
Matsusita	016 017	Starcom	001 004 055		
		Stargate	032 040 042 078 094 004 063 044 030 052 088		



USING THIS GUIDE:

Throughout this guide there are certain symbols we use as shorthand to show you what to do. When you see them, keep these factors in mind:



▲▼ Up and down arrows mean press the MENU UP or MENU DOWN buttons. Pressing the up or down buttons allows you to:

- Move vertically in the main menu screen
- Move through a submenu, or
- Move to the next letter, number, or other choice in a submenu, or
- · Back up to correct an error
- Left and right arrows mean press the MENU LEFT or MENU RIGHT button to:
 - Select the highlighted item, or
 - Select the options in a submenu



The "Press Button" means you should press that button on the remote control



The "Helping Hand" points to the highlighted or selected item in a menu.

Important information, or a note, about a feature follows a cube like this one.

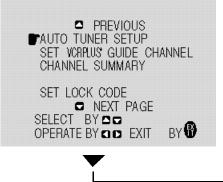
> SMALL CAPITAL LETTERS are used when we refer to buttons ... this is important because some menu functions have the same name.

THE ONSCREEN MENUS:

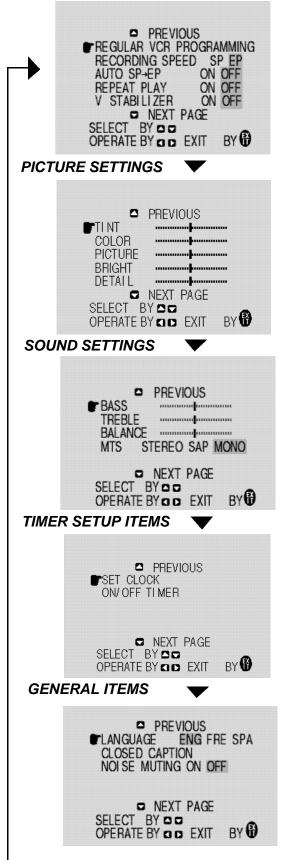
To bring up the onscreen menu, press the MENU button on the remote, and the menu will appear on the screen. The "Helping Hand" will appear next to an item that is selected.

When you first turn on the TV, the "Picture Settings" menu will appear. However, "Initial Setup" is so important, that this guide begins here.

INITIAL SETUP ITEMS



VCR SETUP SETTINGS



INITIAL SETUP



AUTO TUNER SETUP

During Auto Tuner Setup, the TV will automatically scan through all available channels and memorize the active ones so that when you scan, you do not pick up weak or noisy channels.



Press any MENU button

To AUTO TUNER SETUP

To operate

TUNER MODE : CABLE AIR START

- ▲► To choose CABLE or AIR
- ▲▼ To move to START
- ◀► To start Auto Tuner Setup

NOW PROGRAMMING!

The Programming takes approximately 1 to 2 minutes

PROGRAMMING OVER!

Note: Noise Muting will not work while Auto Tuner Setup is working.

CHANNEL SUMMARY

You can add or delete channels from channel scanning. You can also lock out any "unauthorized" viewers from one or up to all 181 channels.



Press any MENU Button

To CHANNEL SUMMARY

To operate

Note: Noise Muting will not work while you are in the Channel Summary menu.

SCAN

You can manually set channels to scan that were too weak to be picked up during Auto Tuner Setup. Conversely, if a channel was too weak to receive a good picture but was picked up anyway, delete it by removing the . (If you have not performed the Auto Tuner Setup described in the previous column, please do so now.)

CH NO.	SCAN	8	CH NO.	SCAN	a
01			06		
02			07		
03			08		
04			09		
05			10		



CHANNEL -/+ to select the channel

To the SCAN column



To add or delete from scan

Exit when finished

Note: Channels set to scan will be marked with an .

Note: Some cable systems experience interference from radio frequencies on Cable Channel 95. If you like, you can delete this channel from scanning by removing the

Continued next page ...



During Initial Setup, the TV will be programmed to only receive active channels. Once the channels are activated by the Auto Tuner Setup they will be included in Scan.

Some weak channels may be included or omitted during this procedure. You can add or delete any channels from scanning in the Channel Summary.



 \mathbf{AV}

INITIAL SETUP

Continued ...

CHANNEL GUARD - LOCK

▲	To the	EL +/	colum	n	channel
••••••••••••••••••••••••••••••••••••	The ac	Lock		zero (0)	to lock
01 02 03 04 05	SCAN	a	CH NO 06 07 08 09 10	SCAN	8

To CHANNEL SUMMARY

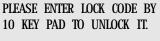


Exit when finished

Note: When viewing, once the Channel Guard for a specific channel has been unlocked, that channel will remain unlocked until power to the television is turned off. To reactivate Channel Guard, turn the power off and then on again.

CHANNEL GUARD MESSAGE:

This message appears when a viewer attempts to watch a guarded channel:



NO. ----

To watch a channel you have locked, enter the lock code using the 10 key pad. An explanation of how to set the lock code appears in the next column on this page.

If the wrong lock code is entered, this message will flash on the screen:

INVALID LOCK CODE !

SET LOCK CODE

The Lock Code locks and unlocks Channel Guard settings. Write this four digit number down and keep it safe from potential viewers!



Press any MENU button



To operate





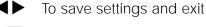
LOCK CODE 0000

FINISH

- To choose the number
- To move to the next place

Continue to follow these directions for all four numbers





Exit when finished

Note: If you forget your Lock Code you can check your code by going to the setup screen of the Set Lock Code function.

Note: After a power interruption of more than 90 seconds you must reset the lock code.

INITIAL SETUP



VCR PLUS⁺ GUIDE SETUP

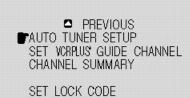
You may simplify the recording of television programs by using VCR PLUS⁺ codes to program your VCR. Whenever you want to record a program, all you need to do is find the VCR PLUS⁺ code for that program. After entering the code, the TV/VCR Combo. will automatically record the program at the correct date, time, and channel.

Before using VCR PLUS⁺ for the first time, you need to set local channels for VCR Plus⁺. These guide numbers may be found in your local TV magazine or newspaper's TV listings.

To Set Local Channels for VCR $\mathsf{PLUS}^{\scriptscriptstyle +}$



Press any of the menu buttons to display the Initial Setup screen



O NEXT PAGE SELECT BY DO OPERATE BY DO EXIT BY

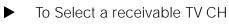
- ▲▼ To Select SET VCR PLUS⁺ GUIDE CHANNEL
- ◆ To display the SET VCR PLUS⁺ GUIDE CHANNEL menu screen

VCR PLUS⁺ GUIDE SETUP

Continued... Below is the VCR Plus+ Guide Setup Menu

GUIDE CH TV CH	GUIDE CH	TVCH
01 01	06	06
02 02	07	07
03 03	08	08
04 04	09	09
05 05	10	10
	SOF	ATIR PAR

▲▼ To move to a TV CH position which corresponds to a particular GUIDE CH number



Repeat the steps described above until all receivable channels have been set.



Exit to save settings and exit.

Your TV/VCR Combo is now ready to accept VCR Plus⁺ codes.

NOTES:

VCR PLUS[•] codes for individual television programs can be found in most local newspaper television listings and TV magazines.



PICTURE SETTINGS

NOTES:

If you do not move to the next setting with the up and down arrows, in approximately three seconds the screen will disappear and your preferences will be stored.

You can exit the Picture Settings menu at any time by pressing the Exit button on the remote control.

Tint allows you to adjust the levels of red and green in the picture.

- Press any MENU button
- To TINT
- To accentuate green
- To accentuate red
- To move to the next **AV**

COLOR

TINT

Color allows you to adjust both the vividness and subtlety of the color.

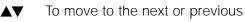


►

Press any MENU button

To COLOR ▼

- ► To make colors more vivid
- ◀ To subdue colors



PICTURE

Picture allows you to adjust the range between black and white in the picture.



Press any MENU button

- To PICTURE
- To increase contrast
- To decrease contrast
- \mathbf{AV} To move to the next or previous

BRIGHT

Adjust the degree of light and dark in the picture.



- Press any MENU button
- To BRIGHT AV
- ► To lighten the picture
- ◄ To darken the picture
- To move to the next or previous

DETAIL

Detail allows you to adjust the level of detail within the picture.



►

Press any MENU button To DETAIL

- To make the picture sharper
- ◀ To make the picture smoother
- To move to the previous \mathbf{AV}



SOUND SETTINGS



BASS

The Bass level adjustment feature allows you to raise or lower the level of lower frequencies in the TV's sound.

Press any MENU button



- To BASS
- To emphasize bass
- To reduce bass
- ▲▼ To move to next

TREBLE

The Treble level adjustment feature allows you to raise or lower the level of higher frequencies in the TV's sound.

Press any MENU button



- To TREBLE
 To increase treble
- To decrease treble
- ▲▼ To move to next

BALANCE

The Balance adjustment feature allows you to center the TV's sound to your needs.



Press any MENU button To BALANCE

- To shift the speaker balance to the right
- To shift the speaker balance to the left
- ■▼ To move to next

MTS (Multi-Channel Television Sound)

MTS technology gives you a choice among stereo, mono, and Second Audio Programs (SAP).



Press any MENU button To MTS

MTS	STEREO	SAP	MONO
	<u>ON AIR</u> Î		

Select the mode

(The ON AIR arrow tells you if the current signal contains Stereo or SAP)

Note: Keep the TV in STEREO mode to get the fullest sound quality.

Note: SAP will allow you to hear an alternative soundtrack, if available.

Note: Choose MONO to reduce excess noise in a program or channel.

NOTES:

MTS has no effect on normal sound broadcasts.

You can exit the Sound Settings menu at any time by pressing the Exit button.

Some Sound Advice

You can tell if a program is broadcast in stereo by the position of the ON AIR arrow in the MTS menu. Unfortunately, it is common for some cable companies to squash the transmission of stereo programs to mono because they only have mono equipment. If connected to a cable system, the sound is at the mercy of that cable company — if they broadcast in mono, you receive mono sound regardless of the original stereo programming.

Fortunately, most programs that are broadcast in stereo are aired on the major television networks. If you connect your TV to an antenna instead of cable, and set the tuner mode in the Auto Tuner Setup to "Air" instead of "Cable," you will be able to pick up stereo broadcasts in stereo.



NOTES:

To use the Semi-Auto function, first tune the television to your local PBS station. PBS stations transmit the EDS or XDS signal needed to set the clock..

DAYLIGHT SAVINGS TIME

This function automatically adjusts for Daylight Savings time. At 2:00 am on the first Sunday in April, the clock moves forward one hour. At 2:00 am on the last Sunday in October the clock moves back one hour.

POWER OUTAGE

If the TV is unplugged or you experience a power outage of more than 90 seconds, you must reset the clock in order for any of your timer functions to work.

If power is interrupt ed for less than 90 seconds, the clock will continue to run, but will be delayed the length of the power interruption (for example if the power was interrupted for 45 seconds, the clock will be 45 seconds slow). It is best to check the clock after any interrup tion in power.

SET CLOCK (SEMI-AUTO)

The Clock is the heart of all timer functions. You must set the clock before any timer functions will work. Your clock can be set automatically by using a broadcast signal available in most areas.

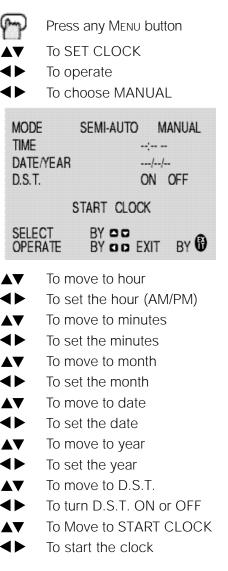


	iunction ai	iyvva	y, you
the following	g message	:	
PLEASE SE	Г CLOCK FIRST	!!	
MODE	SEMI-AUTO	MAN	UAL
TIME DATE/YEAR		: /-	
D.S.T.		ON	OFF

START CLOCK

SET CLOCK (MANUAL)

If you are in an area that does not receive the EDS or XDS signal needed for the Set Clock (Semi-Auto) function, or if you wish to set the clock to a different time, use the manual function.



THANK YOU !!

If you want to synchronize the TV clock with another clock or time signal, press LEFT or RIGHT MENU arrow at the appropriate time, and the clock will start at that moment.

- \mathbf{AV}
- **AV**
- ◀

CLOCK SET MESSAGE

If you do not set the clock but attempt to use a timer function anyway, you will get

Download from Www.Somanuals.com. All Manuals Search And Download.

TIMERS/GENERAL ITEMS 18

ON/OFF TIMER

Use the On/Off Timer as an alarm to wake up, as a program reminder, or as a decoy when you're out of the house.



Press any MENU button To ON/OFF TIMER

◀► To operate

		7 00	DM
ON TIME		7:00	PM
OFF TIME		10:00	PM
CHANNEL			02
MODE	ONCE	EVERY	DAY
ON/OFF TIMER		YES	NO

FINISH

- ▲ To set the hour (AM/PM) you want the TV to turn on
- ▼ To move to minutes
- ▲► To set the minutes
- ▼ To accept ON TIME and to move to OFF TIME (set time for TV to turn off)
- ▼ To move to CHANNEL
- ▲► To select channel
- ▼ To move to MODE
- ♦► Choose ONCE or EVERYDAY
- ▼ To YES NO
- Choose YES for on, NO for off
 To FINISH
- ▲ To save settings

Exit when finished

Note: In order for ON/OFF Timer to work, the clock must be set. After a power interruption of more than 90 seconds timer settings will be turned off and will need to be reset.

Note: ON/OFF Timer cannot be set to locked or guarded channels.

LANGUAGE

Choose from English, French, or Spanish on-screen menus and displays.



Press any MENU button To LANGUAGE

LANGUAGE	ENG	FRE	SPA
----------	-----	-----	-----



Exit when finished

To choose a language

CLOSED CAPTION

If they are included in a program, you can view closed captions or text information.



4 Þ

4 Þ

 \mathbf{AV}

Press any MENU button To CLOSED CAPTION

To operate

CAPTIO	ON:	CC1	CC2	CC3	CC4
TEXT	:	T1	T2	T3	T4
		FI	NISH		

- ▲▼ To CAPTION or TEXT
 - To select a caption or text channel To FINISH
- ▲► To save settings and exit

Note: See page 25 for details on accessing closed captions with the CLOSED CAPTION button on your remote control.

Note: Closed captioning may not correctly operate when the signal received is weak or when you are playing a video tape.

NOISE MUTING

Eliminates noise from channels that are not broadcasting or are too weak.



Press any MENU button

To NOISE MUTING



Note: Noise Muting will not work when you operate Auto Tuner Setup or Channel Summary.

NOTES:

Closed Caption Notes: Captions are usually found on CC1 and text on T1. The other caption and text channels are workable but are for future purposes. If you want to view captions or text, most likely you should choose CC1 for Captions and T1 for Text.

To access a captioning option or to turn one off, allow the display to remain on screen until it disappears. In a few seconds, the captions will start.

If a large black box covers 80% of the screen, the Text Mode is probably "On". Press the CLOSED CAPTION button to turn it off.

General Note: You

can exit the menu at any time by pressing the Exit button.



BASIC VCR FUNCTIONS

NOTES:

The TV/ VCR combo can record and play back video cassettes in monaural sound only.

This TV/VCR combo is equipped with SQPB (S-VHS QUASI PLAYBACK) which lets you watch tapes recorded in the S-VHS format.

SQPB *does not* deliver S-VHS resolution.

S-VHS recording is *not* possible with this video recorder.

You can watch a different program than the one being recorded by the VCR. Press the CHANNEL +/- button or use the 10-key pad to switch to a different channel. You may also return to the recording channel at any time.

VCR BASICS

This section of the guide will explain the many functions of the VCR portion of your new TV/VCR Combo. We will begin with a basic explanation of how to load, view and eject a video cassette.

LOAD A VIDEOCASSETTE

Make sure the "window" of the video cassette is facing up, and the rear label of the video cassette is facing you. Insert the cassette into the slot below the television screen by pressing on the rear of the cassette. Do not use too much pressure when inserting. If the tab at the rear of the cassette has been removed, playback of the tape will begin automatically:

CAUTION!

To avoid injury, do not place your hand inside the video cassette slot of the VCR or your hand may be caught by the unit's internal mechanism. Take special care to prevent children from inserting their hands into the VCR.

FIND THE START OF THE PROGRAM

If the tape is not set at the start of the program, you can move backwards on the tape by using the REW button on the remote or TV/VCR combo front panel. Press REW to rewind the tape to the desired point. To advance forward on the tape, press the FF button.

START PLAYBACK

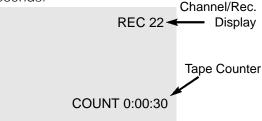
To begin viewing a video cassette, press the PLAY button on the remote or on the TV/VCR combo front panel. A video picture will appear.

STOP PLAYBACK

To end playback of the video cassette, press the STOP button on the remote or the STOP/EJECT button on the TV/VCR combo front panel. The video playback will stop and the on screen display will automatically switch to the television (or to LINE if LINE INPUT is selected).

SIMPLE RECORDING

To record a television program, first select the channel airing the program you wish to record using the 10-digit key pad or CHANNEL +/- buttons on the remote control. Next, press the SP/EP button to select the recording speed (for more on recording speeds see page 20). To begin recording, press the PLAY button while holding down the REC button. The following display will appear on screen over the television picture for a few seconds.



When the program is over, press STOP to finish recording.

TAPE COUNTER

The Tape Counter appears on screen when you fast forward or rewind as a guide to show how much tape is left on a cassette. It also appears when you begin recording or playback. To see the tape counter display at other times, press DISPLAY. For more on DISPLAY, see page 24. To reset the counter, press CANCEL on the remote.

EJECTING THE CASSETTE

To remove a cassette from the unit, press the STOP/EJECT button on the TV/VCR combo front panel. The... mark will begin to flash and the cassette will be ejected from the unit.





VCR MENU

The VCR Menu screen gives you a number of options for operating your VCR. For an explanation of how to use on screen menus, see page 11. *Press any of the MENU buttons to display the menu screen.

REGULAR VCR PROGRAMMING

This function lets you manually input the time, date and channel information for a program you wish to record. (To program your VCR using VCR Plus+ codes see page 22)



RECORDING SPEE	
REPEAT PLAY	ON OFF
NEXT P.	
OPERATE BY DD E	EXIT BY 🤀

To operate ◀▶

DATE **JAN /11** START STOP CHANNEL SP EP RECORDING SPEED FINISH CANCEL SELECT BY DO BY OO EXIT BY OPERATE To select DATE 4> To START (hour AM/PM)

The following menu will appear.

- ◀► To set the time you wish the VCR recording to begin. When you press the Right or Left arrow button, the current time is first displayed.
- To STOP
- ◀ To set the time you wish the VCR recording to end

To CHANNEL

To select the channel of the 4 6 program you wish to record.

- TO RECORDING SPEED
- 4> To select the recording speed.
- SP select to record at standard speed.
- EP select to record at 1/3 normal speed.
- To move to FINISH
- ◀▶ To exit programming and save your settings. The following message will appear:

YOUR PROGRAM IS CONFIRMED PUSH THE TIMER BUTTON



The TIMER button on the remote control. The timer is now in standby

The REC lamp will glow green on the front panel of the unit, indicating the timer has been programmed. When the programmed start time arrives, the REC lamp will glow red and recording will begin. When the programmed stop time arrives, the lamp will go out and the recording will automatically stop.

Note: After recording if there are other pre-set programs the lamp will turn green.

Notes on overlapping programs:

If the timer is set to record two different programs with overlapping times, the second recording will not start until the first is finished. For example if one timed recording is set to run from 5:00 to 6:00, and a second is set from 5:30 to 7:00, the second recording will not start until 6:00 when the first finishes. If one program entirely overlaps another - program 1 is from 5:00 to 6:00, program 2 is from 5:30 to 6:00 - the second program will not record.

NOTES:

Recording speeds

This VCR allows for recording and playback at two different tape speeds.

SP - Standard Play. This setting gives the best recording and playback qualities. It is the time length indicated on blank video cassettes.

EP - Extended Play This setting records and plays back at 1/3 the SP speed (for example a 120 minute cassette can record for six hours at the EP setting). However, video and audio quality at EP speeds are not as good as those recorded at SP speeds.

Other VCR Notes:

To check your programmed settings press the PROG. CHECK button on the remote control. See page 28 for more details.

For troubleshooting on Timer Recording see page 23.



VCR MENU ITEMS

RECORDING SPEED

Select the speed at which you would like to record SP (standard play) or EP (extended play)



Press any MENU button to display the VCR menu screen.

▲▼ To RECORDING SPEED

To set to SP or EP



Press Exit to finish

AUTO SP→EP

This function is used with timerrecording (pg 20 or pg 22) while in the SP tape speed mode. The unit automatically calculates the amount of time left in the recording and the amount of tape left on the cassette. If there is not enough tape to finish the recording, the unit automatically switches to the EP mode to finish the recording.



Press any MENU button to display the VCR menu screen.

▲▼ To AUTO SP→EP

- ▲► To set to ON or OFF
- ON: The unit will automatically switch from SP to EP speed if there is not enough tape left on the cassette to finish the recording.
- OFF: The tape speed *will not* change. The tape may run out before recording is finished.



Press Exit to finish

REPEAT PLAY

Once playback of a cassette has finished, this function automatically rewinds the tape and begins playback again. Playback may be repeated up to 50 times.



- Press any MENU button to display VCR Menu screen
- ▲▼ To REPEAT PLAY
- To turn Repeat play ON or OFF
- **ON:** Once a tape has finished it will automatically rewind and replay
- **OFF:** Tape will stop when playback is completed.



Press Exit to finish.

Note: If a non-recorded period of three seconds or more is encountered on a tape, playback will stop and the tape will automatically rewind. If you timer-record two programs back-to-back, a nonrecorded period will automatically be inserted between programs.

V. STABILIZER

This function eliminates any vertical shaking of the video image during playback in EP mode.



Press any MENU button to display the VCR menu screen.





To turn ON or OFF



Press Exit to finish

Notes: Closed Captioning may not display properly when V. Stabilizer is set to "ON".

After a power interruption or once a tape is ejected, V. Stabilizer will return to "OFF".

VCR PLUS⁺



NOTES:

VCR Plus codes for

individual program:

most local newspa-

may be found in

VCR Plus+

Codes

VCR PLUS+

Your TV/VCR Combo comes equipped with VCR Plus+ technology. This function allows you to program your VCR simply by entering the VCR Plus+ code number associated with the program you wish to record.

Note: Before VCR Plus+ can be used, VCR Plus guide channels must be programmed. See VCR Plus Guide Setup in "Initial Setup" page 14, if you have not yet programmed these channels).

TIMER RECORDING WITH VCR PLUS+

Press the VCR PLUS⁺ button (m) on the remote control The VCR PLUS⁺ code screen appears

ENTER THE PLUS CODE

- - - - - - - -

Enter the VCR PLUS⁺ code (three-toeight digit number) of the show you wish to record using the 10-key pad on the remote control. The following screen will appear:

1234

HOW OFTEN? ONCE DAILY (M-F) WEEKLY SELECT **RECORDING SPEED** SP EP IF ALL OK. CANCEL BY PUSH VCR PLUS+ CANCEL

Note: If you enter the VCR Plus⁺ code incorrectly, press CANCEL on the remote. The first screen will reappear.





Press the DAILY/WEEKLY button to select how often a program should be recorded, ONCE, DAILY, or WEEKLY

Press the SP/EP button to select SP or EP recording speed. (See pg 20 for more on tape recording speeds)



The following screen will appear, displaying a summary of the information you just entered:

DATE	MON - FRI
START	2:30 PM
STOP	3:00 PM
CHANNEL	03
RECORDING SPEED	SP EP
IF ALL OK,	CANCEL BY
PUSH VCR PLUS+	CANCEL

If the settings are correct, press the VCR PLUS⁺ button again to accept. The following message will appear:

YOUR PROGRAM IS CONFIRMED PUSH THE TIMER BUTTON

If you wish to make a correction, use the $(\mathbf{A} \mathbf{\nabla})$ buttons to move to the item and the (\blacktriangleleft) buttons to correct. Once corrected press VCR PLus+ to accept the settings.



Press the Timer button on the remote control. The timer is now in standby mode.

The REC lamp will glow green on the front panel of the unit, indicating the timer has been programmed. When the programmed start time arrives, the REC lamp will glow red and recording will begin. When the programmed stop time arrives, the lamp will go out and the recording will automatically stop. If there are other pre-set recordings the REC lamp will glow green.



Press the VCR PLUS⁺ button

per television listings or in TV magazines. VCR Plus+ Codes are th three to eight digit number usually shown after the title or description of a program in TV listings.

You can program your VCR with up to six events. These events may be up a month in the future. For more information on setting timer record ings, see "Regular VCR Programming" on page 20.

Note:

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



TROUBLESHOOTING / ITR

TIMER RECORDING TROUBLESHOOTING

The following are some common problems/issues that may arise while using Timer Recording.

REC lamp starts flashing when you press TIMER on the remote control.

No cassette is loaded into VCR. Insert a cassette into VCR and continue.

Cassette loaded has its recording tab removed.

Insert a recordable cassette, or cover the missing tab hole with two layers of tape.

The following message appears when attempting to eject tape or operate VCR:

VCR TIMER IS ON. PUSH TIMER BUTTON TO RELEASE.

Press the TIMER button and set Timer Mode to Off. Try operating VCR again.

To stop taping once automatic recording has begun.

Press the TIMER button, then the STOP button.

INSTANT TIMER RECORDING (ITR)

Instant Timer Recording allows you to set the VCR timer after the videotaping of a program has begun. The ITR timer can be programmed to stop recording up to four hours after it has begun. To use the ITR timer, the VCR must already be recording. Press the REC/ITR button on the front panel of the VCR (Note: This function cannot be accessed with the remote control)



Rec/Itr

The following display will appear on the screen:

REC 22

ITR 0:30

COUNT 0:00:01

The timer above is set to stop recording in 30 minutes.

Press the ITR button again to increase the amount of time on the ITR timer. Each press increases the amount by 30 minutes. The ITR timer can be set from a minimum of thirty minutes "ITR 0:30" to a maximum of four hours "ITR 4:00" When the time allotted to the ITR expires, the recording automatically shuts off.

Note: To cancel the ITR timer, press the REC/ITR button until the on-screen display disappears.

Note: To stop recording before the allotted time expires, press the STOP button.





BUTTON FUNCTIONS

This section will describe in detail the different buttons on your remote control and their functions. Buttons related to the operation of the television are listed first, followed by the buttons used to operate the VCR. The names of individual buttons in this section are printed in SMALL CAPS.

DISPLAY

The Display screen shows the current status of timers and inputs.



DISPLAY

07	
NOW	12:20 PM
	JAN/26/99
SPEED	EP
REMAIN	:
SLEEP TIMER	OFF
ON/OFF TIMER	OFF

- □ The channel or AV input (Channel 07)
- Current time (12:20 PM)
- Current date (Jan. 26, 1999)
- □ Recording Speed (EP)
- □ Amount of tape remaining on video cassette. (--:--)
- Sleep Timer status/minutes remaining (OFF)
- On/Off Timer status (OFF)

Each press of the DISPLAY button changes the display mode:

ightarrow display ightarrow time ightarrow channel ightarrow VCR ightarrowOFF ightarrow

Display shows the above menu screen. Time shows only the current time over the television picture. Channel shows only the number of the channel the television is currently tuned to. VCR shows the VCR's current function (for example - "Play") and tape counter.

Note: VCR display is only available when there is a tape in the unit.

VIDEO STATUS

The VIDEO STATUS button gives your television a movie theater-like quality with the "Cinema" setting, raises the level of video game detail with "Game" setting, or resets display to factory settings with "Standard".

"Standard" resets the picture settings to factory-set levels.

"Cinema" Gives a film-like look to television and video programs

"Game" enhances the appearance of video game graphics.



SLEEP TIMER

Sleep Timer turns off the TV for you in case you fall asleep. Program it to work in intervals of 15 minutes up to 180 minutes.



Sleep Timer

- 0 15 30 45 60 75 90 105 120 135 150 165 180—

SLEEP TIMER MESSAGE

20 seconds prior to the automatic shut-off, this message will appear:

GOOD NIGHT ! ! PUSH SLEEP TIMER BUTTON TO EXTEND.

You then have 20 seconds to press the SLEEP TIMER button to delay turn off for another 15 minutes.

NOTES:

Please note that if the clock, Sleep Timer, or On/Off Timer are not set, the initial Display screen will state "Clock Not Set," "Sleep Timer Off," and "On/Off Timer Off," respectively.

Notes on Display:

"Remain" automatically calculates how much time is remaining on a video cassette inserted in the unit. If the display reads "--:--", run the tape a little bit, then try Display again. If there is no tape inside the unit, Remain will read "--:--"

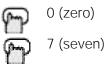


BUTTON FUNCTIONS - TV

NUMBER BUTTONS 10 KEY PAD

Press two of the number buttons to move to single and double digit channels.

To move to Channel 7:



100 +

The 100+ button accesses all channels above Channel 99.

To move to Channel 124:



MUTING

The MUTING button turns the sound off completely when you press it.



Muting

The sound will turn off completely.

Note: To return to the original volume press MUTING again.

MENU BUTTONS (▲▼◀►)

Press any of the four menu buttons to access the onscreen menu system.

INPUT

INPUT selects the input mode.

INPUT \rightarrow TV \longrightarrow LINE

RETURN

Return to the last channel viewed after moving to another channel via the 10 key pad.



Move to another channel using the 10 key pad



Return

The TV will return to the first channel

EXIT

The Exit button lets you leave any menu and return to normal television viewing.

CLOSED CAPTION

View the closed captions or text when included in a broadcast.

CLOSED CAPTION

 $\xrightarrow{} \mathsf{CC} \xrightarrow{} \mathsf{TEXT} \xrightarrow{} \mathsf{OFF} \xrightarrow{}$

Note: For more information on Closed Caption, see page 18.

Note: Closed captioning is not available on video cassettes.

CHANNEL +/-

The CHANNEL +/- button lets scan forward and backwards through the available television channels. For more on this feature, see page 9.

VOLUME +/-

The VOLUME +/- button raises or lowers the volume. For more on this feature, see page 9.

TV/CATV SWITCH

For normal operation of your TV/VCR combo, set the TV/VCR switch to "TV". If you use a cable box to select channels, set the switch to "CATV".

Note: The VCR buttons will only work when the remote is set to "TV". If you use the "CATV" setting, you must switch to "TV" when you wish to operate the VCR.



VCR FUNCTIONS - BASIC

The following buttons control the basic functions of the VCR.



Begins playback of a video cassette.



Rew

Rewinds tape. If pressed when tape is stopped, the tape counter will be displayed on screen. Can also be used with PLAY to scan backwards through tape.



□ Fast Forward. If pressed when tape is stopped, the tape counter will be displayed on screen. Can also be used with PLAY to scan forward through tape at an accelerated rate.



Pause

- Freezes a single frame of video on screen during playback. Press PLAY to resume normal playback.
- U While tape is paused, you can advance forward frame-by-frame. Each press of the PAUSE button will move the tape ahead one frame.
- U While tape is playing back, you can slow the speed to 1/6 of normal by pressing and holding PAUSE for two seconds.



Immediately begins recording of program currently on television. To start recording, press PLAY while holding down Rec button.



STOP

□ Halts VCR function. Will stop tape during play, record, fast-forward, or rewind functions. If pressed while Rew or FF is being used with PLAY, tape will return to normal playback.

INDEX SEARCH

Most JVC-brand VCR's automatically insert an index mark at the start of a recording. The INDEX SEARCH +/- buttons can be used to scan a cassette for these marks, to quickly find the beginning of a taped program.

INDEX SEARCH +

Scans tape forward for index marks. If there are numerous programs recorded on one tape, you can press the INDEX SEARCH button a number of times to search for that number of marks. (For example four presses will move ahead four index marks). A recording up to nine index marks ahead may be accessed.



Scans tape backward for index marks. If there are numerous programs recorded on one tape, you can press the INDEX

SEARCH button a number of times to search for that number of marks. (For example four presses will move back four index marks). A recording up to nine index marks behind may be accessed.

TRACKING ADJUSTMENT

During playback, if tracking (the alignment of the video heads on the video cassette tape) deviates, an unclear picture is displayed. This TV/VCR Combo is equipped with an automatic tracking function. There are are cases when manual tracking adjustment is needed. They include:

• When the auto tracking does not work properly and the picture remains unclear. If the picture moves vertically during

playback

Open the cover of the TV/VCR combo front panel.



Press the CHANNEL + and CHANNEL - on the front panel simultaneously during playback.

Note: No special tracking indication will appear on screen.



Press either the CHANNEL + or CHANNEL - buttons to reduce the disturbance or vertical vibration of the picture.

Note: Once video cassette is removed, manual tracking will automatically be turned off.



NOTES:

Index marks are a function of JVCmade video decks. Therefore, INDEX SEARCH cannot be used on commercially produced tapes, or tapes recorded on non-JVC brand VCR's, since these tapes will not have the JVC index marks recorded on them.

If you try to begin an index search at a point on the tape between two programs, INDEX SEARCH may not work correctly. Either fast-forward, or rewind the tape a bit and try INDEX SEARCH again.





SKIP SEARCH

Each time you press the SKIP SEARCH button while a tape is playing, the unit will fastforward ahead 30 seconds on the tape. You may press the button up to four times in a row to move 120 seconds or two minutes ahead.



RE-VIEW

Once a timer-recording has finished, pressing the RE-VIEW button automatically rewinds the tape to the start of the newly recorded program.



RE-VIEW

Note: No other VCR functions can be used before pressing RE-VIEW. Using any other functions will prevent RE-VIEW from working.

EZ JECT

The video cassette is automatically rewound and then ejected with one push of the EZJECT button.



DISPLAY

By pressing DISPLAY while a video cassette is playing you can check on how much tape remains or tape speed. Display also shows the tape counter on-screen. Refer to page 24 for more details.



CANCEL

Use to cancel a pre-set timed program or if you input a VCR Plus⁺ code incorrectly on the VCR Plus⁺ screen.



SP/EP

Selects a recording speed (SP or EP) for simple recording. See "Regular VCR Programming" on page 20 for more details.



SHUTTLE PLUS +/-

Lets you gradually increase or decrease the playback speed of a video cassette. With a videotape playing choose either the SHUTTLE PLUS + or SHUTTLE PLUS - button.



Shuttle Plus +

Each time this button is pushed, playback speed will increase. Button can be pushed a maximum of seven times.



Shuttle Plus -

Each time this button is pushed, playback speed will decrease. Button can be pushed a maximum of seven times.

To resume playback at normal speed, press the PLAY button.

TIMER

Lets you turn the Timer Mode ON and OFF.



VCR PLUS+

Accesses the TV/VCR Combo's VCR Plus⁺ functions. For more information on timer recording with VCR Plus⁺, see page 22.



VCR PLUS+

DAILY/WEEKLY

Selects how often a program will be recorded: Once, Daily, or Weekly. Pressing Daily/Weekly will access this option in the Timer Recording menu.



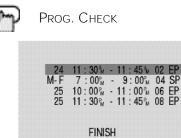


PROGRAM CHECK

The Program Check button allows you to confirm the programmed settings of your VCR. You can also make changes if you find any errors.

Confirm Timer Settings

Press the Program Check button to display the timer information



OPERATE BY DO EXIT BY

Press again to leave screen.

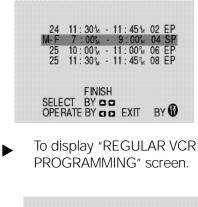
SELECT BY DD

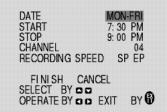
Changing Timer Settings

If you find an error, you may correct it from the program check screen.



To program you wish to change





Program Check Continued

Use the Menu buttons to select which items you wish to change. (For more on Regular VCR Programming, see page 20).

Cancelling Timer Programs

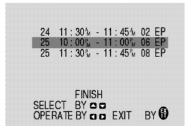
Press the Program Check button to display the timer information



PROG. CHECK

Select the program you wish to cancel





Press Prog. CHECK again to exit.

REC/ITR

(On TV/VCR Combo unit front panel)



Rec/Itr

Pressing the Rec/ITR button once will begin videotape recording on on-screen program. Pressing button a second time will activate ITR (Instant Timer Recording) timer. See "Instant Timer Recording" on page 23 for more information.

STOP/EJECT

(On TV/VCR Combo unit front panel)



STOP/EJECT

Pressing the Stop/Eject button once will halt any on-going VCR function such as playback, record, rewind, etc. Press the button while the VCR is stopped to eject video cassettes.



29 TROUBLESHOOTING - TV

PROBLEMS	CHECK
There is no power	See if the power cord became unplugged.Perhaps you have experienced a blown circuit breaker or fuse or a power outage.
There is no picture or no sound	 The antenna could be disconnected. The input mode (TV or Video) could not be set properly, refer to page 25. The tuner mode (in the Auto Tuner Setup) could be set improperly, refer to page 12. The station may be having difficulties, check to see if other channels are operating normally.
Remote control is not operating or operating properly	 Check that the batteries are still working and properly installed. Make sure there are no objects blocking a clear path from the remote to the TV. Check that the TV/CATV switch is in the proper position — set to TV to view television.
You cannot select a certain channel	 Maybe you are too far from the TV, you must be within 23 feet (or 7 meters). Make sure the channels are programmed. See Channel Summary, page 12. Perhaps the channel is locked, select it with the 10 key pad and follow instructions on page 13.
The power turns off by itself	 Perhaps the On/Off Timer is set, press the power button, check page 18. The power was interrupted or the power cord unplugged. Reset the clock, check page 17. The Sleep Timer may be set, check page 24
The clock is wrong	• The power was interrupted and the clock not reset. Reset the clock, check page 17.
On Timer is blinking	There is a problem with the TV. Unplug the set and call for service.
PICTURE	CHECK
The picture color quality is poor	Tint and color may be improperly adjusted. Check page 15.Video Status mode may be set to an inappropriate setting. Check page 24.
There are lines across the picture	 There could be interference from another energy consuming appliance, such as a computer, another TV or VCR. Move any other such appliances farther away from the TV.
The picture is spotted	 There could be interference from a running high wattage appliance such as a hair-dryer, vacuum cleaner, or neon sign. You will have to move the antenna away from the source of the interference or change it to a coaxial cable which is less prone to interference.
Double picture (Ghosts)	 A building or airplane can reflect the original signal producing a second, delayed one. Adjust the antenna position.
Snowy picture/ Image noise	 The antenna may be damaged, disconnected or turned. Check the antenna connection, page 6, and your Quick Setup Guide. If it is damaged, you will have to replace it.
Screen is 80% black	Closed Caption Text Mode is on. Turn it off in the Closed Caption Menu (page 18).
SOUND	CHECK
Bilingual or stereo programs cant be heard	• Make sure the MTS mode is properly set. Refer to page 16 for details on setting MTS Modes.
There is no sound from the TV speakers.	 The volume is set to "0". Adjust it by pressing the VOLUME + button. Has the Muting button been pressed? If so, press Muting again to return volume to normal. Is an earphone/headphone attached to the jack at the front of the TV? If the phones jack is in use, the TV's speakers will not produce sound.
NOT A PROBLEM	DON'T WORRY ABOUT THIS, IT'S NORMAL
Static electricity	• It is normal to feel a surge of static electricity if you brush over or touch the screen.
You hear occasional crackling sounds	 It is normal for the TV to emit crackling sounds when turned on or off. Unless the sound or picture become abnormal, this is fine.

TROUBLESHOOTING - VCR



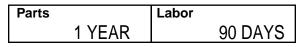
PROBLEMS	CHECK
The video cassette will not enter the VCR	 Make sure you are attempting to insert the tape properly. The clear window on the cassette should be facing up and the label on the narrow part of the cassette should face away from the machine. Are you attempting to use a cassette that is not a VHS or S-VHS type? Only these types of cassettes may be used in this machine.
The cassette will not eject	 Is the VCR set for timer-recording? A cassette cannot be removed while the timer is running. To eject the tape while the timer is operating, press the TIMER button on the remote control to shut it off. You may then press EJECT on the front panel of the unit to remove the tape.
Dual or stereo sound cannot be heard	This VCR allows for recording and playback in mono sound only.
Two sounds are heard at the same time during playback	 When a tape with stereo Hi-Fi recorded as its normal track is played back, two separate soundtracks may be heard at the same time. Make sure when renting or purchasing recorded video tapes that they are compatible with monaural sound mode.
Unit makes mechanical-type sounds when no operation is being performed	 Is the VCR set to begin timer-recording? When a timer-recording starts, it is normal to hear the cassette tape being engaged inside the machine. This is not a malfunction. Have you just finished watching a tape? Two or three minutes after you finish watching a tape, the VCR heads automatically disengage from the tape to protect the tape. Sound is also heard at this time. This is not a malfunction either.
The cassette gets stuck halfway during loading or unloading	• Try unplugging the unit from the power outlet, then plugging back in. If this does not work, call your local dealer for service.
The VCR started rewinding the tape automatically	 During recording, playback, or fast-forwarding when the unit reaches the end of the tape, it starts rewinding automatically. Is the VCR set to Repeat Play? See "Repeat Play", page 21.
Recording won't start	 Has the safety tab at the rear of the cassette been removed? A cassette cannot be used for recording without this tab. If the tab is missing and you still want to record on that tape, cover the hole with two layers of adhesive tape.
"Noise" (static) appears on the picture during playback	 The VCR heads may be dirty. Use a commercially available cleaning cassette to clean the heads.
Still (paused) picture vibrates up and down	Manually adjust the VCR's tracking. See "Tracking Adjustment", page 26.
VCR cannot be set for timer-recording	 Are you trying to timer-record more than six programs? The maximum number of timer-recordings that can be set at one time is six. Do timer-recordings overlap? You can check timer settings by pressing PROG. CHECK on the remote control. For PROG. CHECK, see page 28. For timer recording overlap, see page 20.
The VCR cannot be operated	 Is there a video cassette inserted in the unit? If there is no cassette inserted, the VCR cannot be operated.
Timer-recording is set but VCR cannot timer record.	Do timer-recording overlap? See the "Notes on overlapping programs" on page 20.



LIMITED WARRANTY

For Canadian model televisions, see separate sheets for Warranty/Garantie and JVC Authorized Service Centers in Canada.

JVC COMPANYOF AMERICAwarrants this product and all parts thereof, except as set forth below ONLYTO THE ORIGINALPURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIPfrom the date of original retail purchase for the period shown below (the "Warranty Period") (PICTURE TUBE is covered for Two (2) years.)



THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective within the warranty period, JVC will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during regular business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of this Warranty Period. All products and parts thereof may be brought to a JVC authorized service center on a carry-in basis. Televisions with a screen size of 25 inches and larger may be covered on an in-home basis where such service is available.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

To determine if in-home service is available in your area, either contact the selling dealer (retailer) or call 1-800-537-5722 to locate the nearest JVC authorized service center. Service locations can also be obtained from our website <u>http://www.jvcservice.com</u>. In-home service, if available, will require clear access to the Television by the service representatives. If in-home service is not available, carry in service will be provided.

If service is not locally available, box the product carefully, preferably in its original carton, and ship, insured, with a copy of your bill of sale plus a letter of explanation of the problem to the nearest JVC Factory Service Center, the name and location which will be given to you by the toll free number.

If you have any questions concerning your JVCProduct, please contact our Customer Relations Department.

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

- 1) Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
- 2) Initial installation, installation and removal from "built-in" entertainment centers and other mounting systems;
- 3) Operational adjustments covered in the Owner's Manual,normal maintenance, video and audio head cleaning;
- 4) Damage that occurs in shipment, due to an act of God, and cosmetic damage;
- 5) Signal reception problems and failures due to line power surge;
- 6) Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase;
- 7) Accessories;
- 8) Batteries (except that Rechargeable Batteries are covered for 90 days from date of purchase.)

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILTY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long the warranty lasts, so these exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary state to state.

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http://www.jvcservice.com

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY. THIS WARRANTY DOES NOT APPLY FOR DETAILS OF REFURBISHED PRODUCT WARRANTY. PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

For customer use:

Enter below the Model No.and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No.:	Serial No.:
Purchase Date:	Name Of Dealer:

AUTHORIZED SERVICE CENTERS



QUALITY **JVC**^{*} SERVICE

HOW TO LOCATE YOUR JVC SERVICE CENTER

TOLL FREE: 1 (800) 537-5722 http://www.jvcservice.com

Dear Customer;

In order to receive the most satisfaction from your purchase, read the instruction booklet before operating the unit. In the event that repair is necessary, or for the address nearest your location, please refer to the factory service center list below or within the Continental United States, call 1-800-537-5722 for your authorized servicer. Remember to retain your Bill of Sale for Warranty Service.

— JVC

JVC SERVICE & ENGINEERING COMPANY OF AMERICA

DIVISION OF JVC AMERICAS CORP.

FACTORY SERVICE CENTER LOCATIONS

Dear customer;

In order to receive the most satisfaction from your purchase, read this guide before operating the unit, and before calling for service make sure you check the Troubleshooting pages at the end of this book. In the event that repair is necessary, or for the address nearest you, please refer to the factory service center list below, or within the continental United States, call the toll free number above for an authorized service center. Remember to retain your bill of sale for warranty service.

107 Little Falls Road Fairfield, NJ 07004-2105 (973) 808-9279

5665 Corporate Avenue Cypress, CA 90630-0024 (714) 229-8011

13 Cummings Park Woburn, MA 01801 (781) 376-9100 1500 Lakes Parkway Lawrenceville, GA 30243-5857 (404) 339-2522

2969 Mapunapuna Place Honolulu, HA 96819-2040 (808) 833-5828

8192 State Road 84 Davie, FL 33324 (954) 472-1960 705 Enterprise Street Aurora, IL 60504-8149 (630) 851-7855

10700 Hammerly Suite 110 Houston, TX 77043 (713) 935-9331

890 Dubuque Avenue South San Francisco, CA 94080-1804 (650) 871-2666

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is key to maintaining the high level of performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

NATIONAL HEADQUARTERS JVC SERVICE & ENGINEERING COMPANY OF AMERICA DIVISION OF JVC AMERICAS CORP. 1700 Valley Road Wayne, New Jersey 07470

- IF YOU SHIP THE PRODUCT -

Pack your JVC unit in the original carton or one of equivalent size and strength. Enclose, with the unit, a letter stating the problem or symptom that exists and also a copy of the receipt or bill of sale you received when you purchased your JVC unit. Print your home return address on the outside and inside of the carton, Send to the appropriate JVC Factory Service Center as listed above.

Don't service it yourself.

CAUTION

To prevent electrical shock, do not open the cabinet. No user serviceable parts inside. Refer to qualified service personnel.

ACCESSORIES

To purchase accessories for your JVC product, you may contact your local JVC Dealer. Or from the 48 Continental United States call toll free : 1 (800) 882-2345





SPECIFICATIONS

MODEL	TV-20240
Туре	TV/VCR Combo
Reception Format	NTSC, BTSC System (Multi Channel Sound)
Reception Range	VHF 2 to 13. UHF 14 to 69 Sub Mid, Super, Hyper, and Ultra bands (181 channel frequency synthesizer system)
Power Supply	120VAC, 60 Hz
Power consumption	100W / 1.5A
Screen Size	20 Inches / 50.8 cm measured diagonally full square
Audio Output	1.2W x 1.2W
Speakers	1-4/5" x 4" / 4.5 x 10 cm oval x 2
Antenna Terminal	75 ohms (VHF/UHF) terminal (F-type connector)
External input jacks	Video: 1 Vp-p., 75 ohms Audio: 500mVrms (-4dBs audio) high impedance
Phones jack	3.5 mm stereo mini-jack
Recording/Playback system	VHS system (SQPB) 4 head helical scan system
Video Signal	NTSCsystem
Recording system	VHS monaural system Monaural-linear track system
Tape Speed	EP / SP
Program capacity	1- month programmable timer / 6 programs
Memory backup time	Approximately 90 seconds
Clock Reference	AC
External Dimensions (W x H x D)	22 5/8" x 19 7/8" x 19 1/8" / 57.2 x 50.3 x 48.3 (cm)
Weight (lbs./kg.)	52.4 (lbs.) / 23.8 (kg.)
Accessories	1 Remote control unit, 2 AA batteries

Specifications subject to change without notice.

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JVC CANADA, INC.

21 Finchdene Square Scarborough, Ontario Canada M1X 1A7



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