

# JVC<sup>®</sup>

## COLOR TELEVISION USER'S GUIDE

For models:

C-13110

C-13111

C-20110

AV-20120

AV-20121

AV-27115

AV-27120



Illustration of AV-27120 and RM-C381

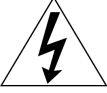
### **IMPORTANT NOTE TO THE CUSTOMER**

In the spaces below, enter the model and serial number for your television (located at the rear of the television cabinet). 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 \_\_\_\_\_

Model Number \_\_\_\_\_

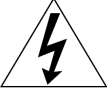
# IMPORTANT SAFETY PRECAUTIONS




**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.**

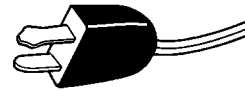
Electrical energy can perform many useful functions. This TV set has been engineered and manufactured to assure your personal safety. But *improper use can result in potential electrical shock or fire hazards*. In order not to defeat the safeguards incorporated in this TV set, observe the following basic 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)



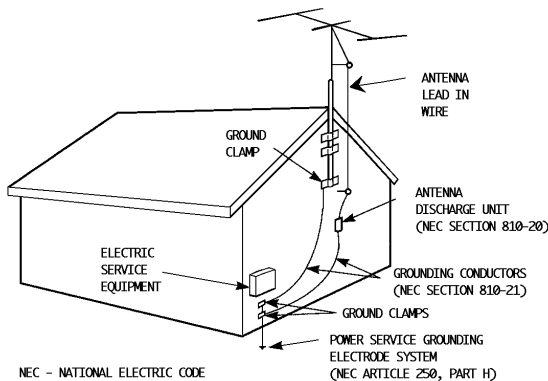
This safety feature allows the plug to fit into the power outlet only one way. Should you be unable to insert the plug fully into the outlet, try reversing the plug.

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.
- 3 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.

**EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE**



- 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.

## WELCOME!

Congratulations on your new television purchase! We thank you for choosing JVC.

We know you are anxious to start watching your new television, but before you operate it, please read this guide and then keep it handy for future reference. After all you just bought a great TV with a lot of terrific features, you should know what each feature is and how to use it properly!

Please note, as you read through this guide there are illustrations of select models for your reference. There are several models covered in this guide and therefore each illustration may not be of the specific model you own. Be sure to look for the similar feature on your TV.

Again, congratulations and thank you for choosing JVC! Enjoy!

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## CONNECTIONS CHECKLIST - READ ME FIRST

The Connections Checklist section of this guide is a list of ideas to keep in mind while you setup your new TV. It is designed to help us not-so-technically-minded individuals make our connections properly. If you read this section and still can't identify the plugs, connectors and components you have, please ask someone for help in making your connections.

- 1) **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 (or Mono) connections. If your VCR is mono-sound, it will have only a white or black plug, no second red plug).
- 3) **Perform one connection at a time.** If you have several accessories to connect, make sure each connection is correct by checking to see that it works properly before trying the next connection.
- 4) **Unplug the power cord** during each connection.
- 5) **Follow the In and Out Concept.** Remember In and Out - the Output jack from one device will go to the Input jack of the other. Read the jack panels, they are all labeled.



A/V Input Plug

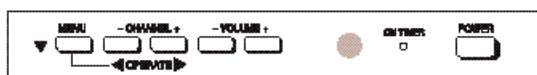


RF Connectors

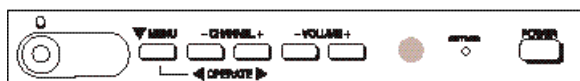


S-Video Plug

### Front and Rear Panel Diagrams



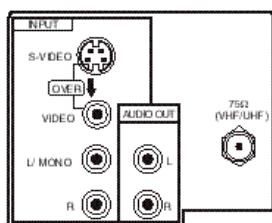
AV-27120 • AV-27115 Front Panel



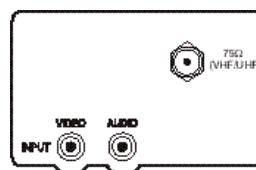
AV-20120 • AV-20121 • C-20110 Front Panel



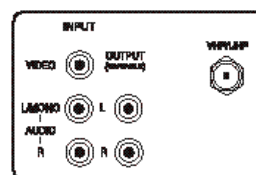
C-13111 • C-13110 Front Panel



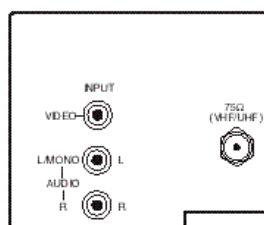
AV-27120 Rear Panel



C-13111 • C-13110 • C-20110 Rear Panel



AV-20120 • AV-20121 Rear Panel



AV-27115 Rear Panel

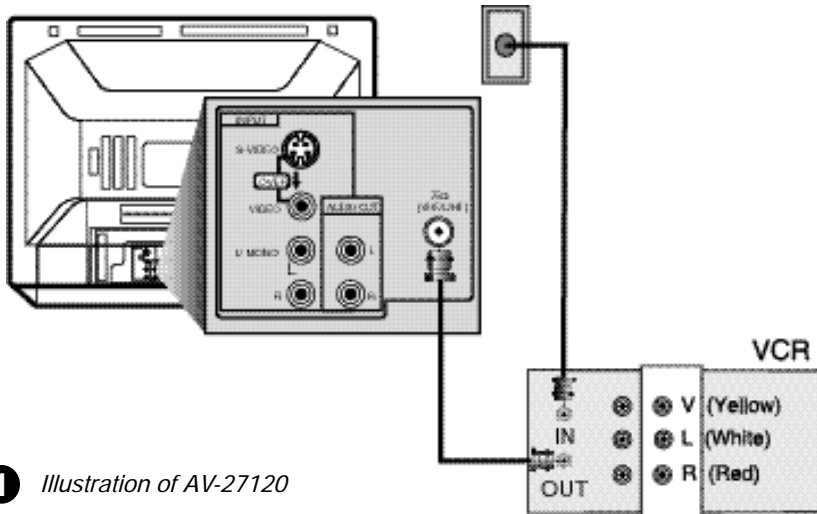
# 6

## Connections

### Cable and VCR Connections

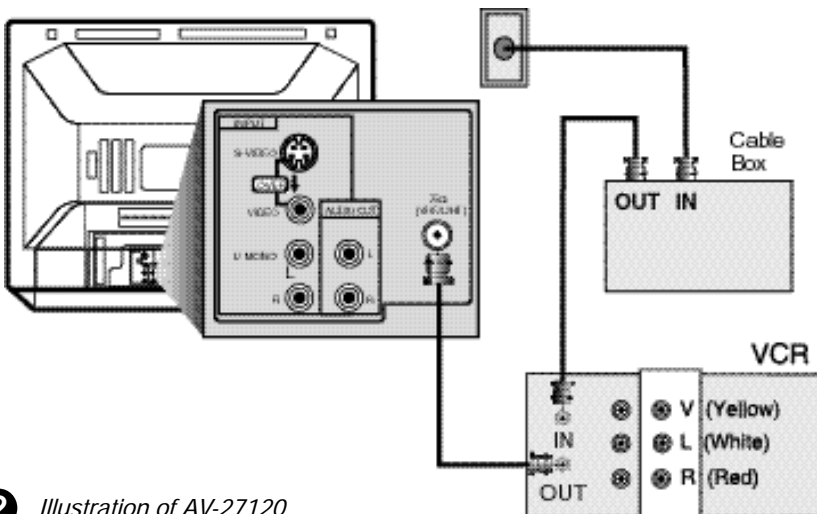
There are two basic types of antenna or cable connections:

- If you have an antenna or have a cable system that does not require you use a cable box to select channels, please refer to Diagram #1.
- If you use a cable box to access any or all the channels, please refer to Diagram #2.



1 Illustration of AV-27120

- 1) Connect the antenna or cable TV wire from the wall outlet, in to the RF Input on your VCR.
  - 2) Connect an RF cable from the VCR Output, in to the RF input on the back of the TV.
- If you want to use the VCR as a separate tuner (not be required to have the VCR set to channel 3 or 4 to watch the TV), you can connect a two-way splitter in between the Cable and VCR connections.



2 Illustration of AV-27120

- 1) Connect the antenna or cable TV wire from the wall outlet, in to the RF Input on your Cable Box.
- 2) Connect an RF cable from the Cable Box Output, in to the VCR's RF input.
- 3) Connect an RF cable out from the VCR's output in to RF input at the back of the TV.

#### Notes

- Refer to the Cable Box or VCR's instructions for more information on its operation.

#### Headphone Connection (available on 13 and 20 inch models)

You can connect a pair of headphones or earphone to the television using the headphone jack on the front panel.

- 1) Plug a headphone/earphone jack into the headphone jack on the television's front panel.

#### S-Video Connection (available on model AV-27120 only)

You may also choose to connect video devices (VCR, Camcorders, etc) by using an S-Video Cable. S-Video may be substituted in any of the connections diagrams included here. To use S-Video:

- 1) Plug an S-Video cable out from the video device and in to the TV's S-Video Input.

Keep the audio connections the same as shown in the diagrams.

## Audio/Video Connections - Stereo

For models AV-27120, AV-20120 and AV-20121 only. Use the connection diagram below to get stereo sound from a stereo VCR.

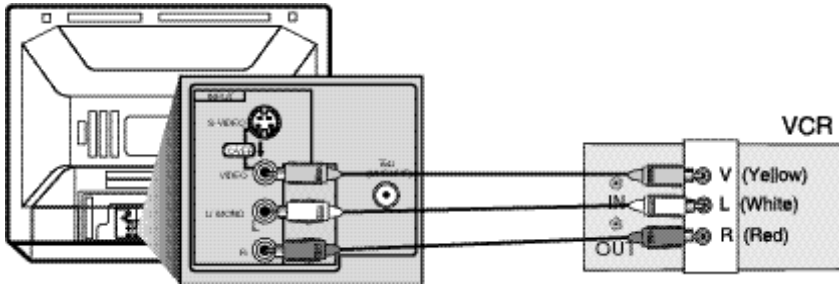


Illustration of AV-27120

### Notes

- If your VCR is mono it will have only one Audio Out jack.
- Refer to the VCR's instructions for more information on its operation.

- 1) Connect the yellow video cable from the VCR's Video Output jack to the TV's Video Input jack.
- 2) Connect the white (or black) audio cable from the VCR's Left Audio Output jack to the TV's Left Audio Input jack.
- 3) Connect the red audio cable from the VCR's Right Audio Output jack to the TV's Right Audio Input jack.

## Connecting to an External Amplifier

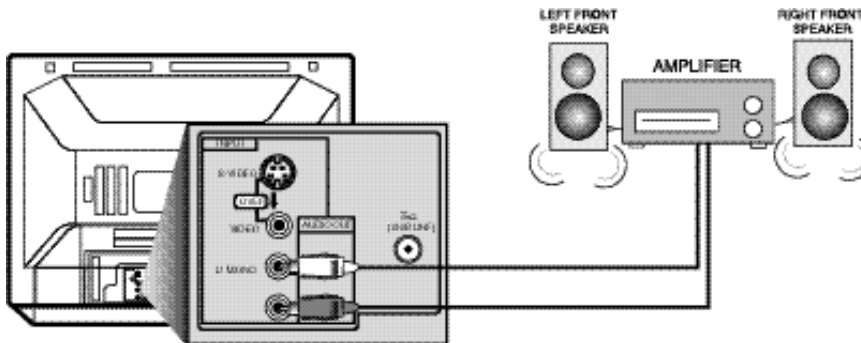


Illustration of AV-27120

### Notes

- Refer to the Amplifier's instructions for more information on its operation.

For Stereo Models (AV-27120, AV-20120, AV-20121) Only.

- 1) Connect the white audio cable from the TV's Left Audio Output jack to the Amplifier's Left Audio Input jack.
- 2) Connect the red audio cable from the TV's Right Audio Output jack to the Amplifier's Right Audio Input jack.

## Connecting to a Camcorder

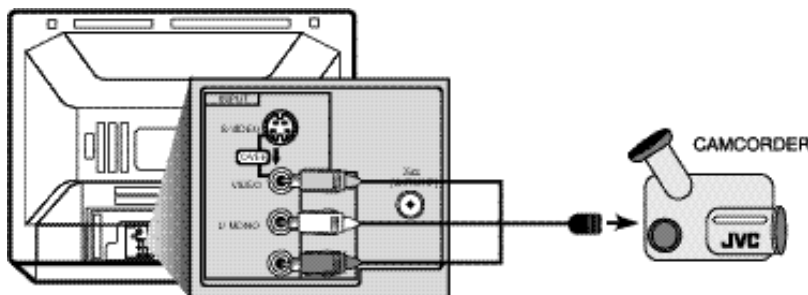


Illustration of AV-27120

### Notes

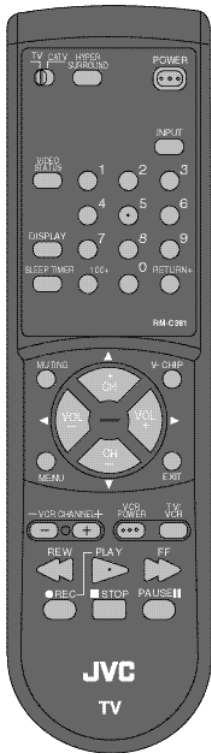
- Refer to the Camcorder's instructions for more information on its operation.

- 1) Connect the white audio cable from the Camcorder's Left Audio Output jack to the TV's Left Audio Input jack.
- 2) If you have both a stereo Camcorder and TV, connect the red audio cable from the Camcorder's Right Audio Output jack to the TV's Right Audio Input jack.
- 3) Connect a yellow video cable from the Camcorder's Video Output to the TV's Video Input jack.

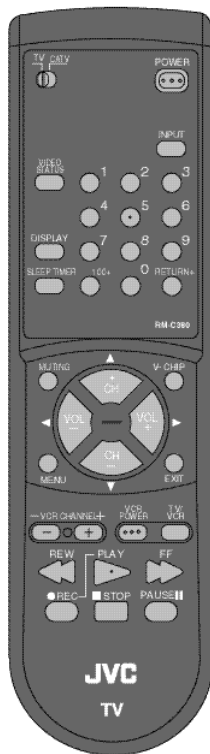
# 8

## Getting Started

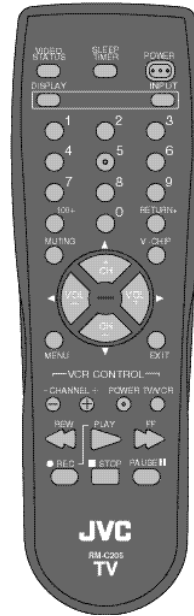
### Remote Controls



**RM-C381**  
AV-27120



**RM-C380**  
AV-20120 • AV-20121



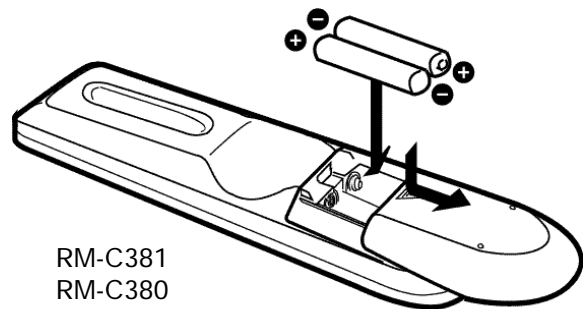
**RM-C205**  
C-13110 • C-13111  
C-20110 • AV-27115

### Changing the Batteries

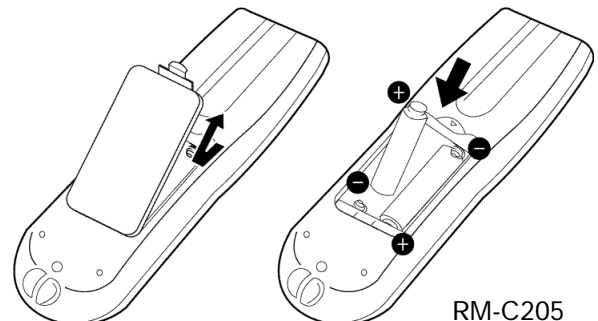
*Be sure to use only size AA batteries.*

- 1 Raise the latch on the remote's back cover or push down on the back cover and slide towards the bottom to remove it.
  - 2 Insert two AA batteries (supplied), carefully noting the "+" and "-" markings on the batteries and on the remote control. To avoid a potential short circuit, insert the "-" end first.
  - 3 When batteries are installed, snap the back cover into place.
- If the remote control acts erratically, replace the batteries. Typical battery life is six months to one year.
  - We recommend using alkaline batteries for longer battery life.

*When you change the batteries, try to complete the task within three minutes. If you take longer than three minutes, the remote control codes for your VCR and/or Cable Box may have to be reset (page 10-11).*



RM-C381  
RM-C380



RM-C205



## *Power*

---

- Press the POWER button on the remote control or the front panel of the TV. The On Timer lamp will glow red.
- Make sure the TV/CATV switch on the remote is set to TV (RM-C380 and RM-C381 only). Move the switch to CATV only if you plan to operate a cable box. On the CATV setting the remote will only operate 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 red when the On/Off Timer is set (page 22), even when the TV power is off.

## *Adjusting Volume*

---

To control the volume level, use the VOLUME+/- buttons on the remote control or on the TV's front panel. Use the VOLUME - button to lower the volume. Press the VOLUME+ button to raise the volume.



Press the MUTE button to instantly turn the volume to zero. Press MUTE again to return to the previous volume level.

## *Changing Channels*

---

### **1 10 key direct access**

To move directly to a specific channel, press that channel's numbers on the remote's 10 key pad. For single-digit channel numbers, press "0" then the channel number. For channels above 100, press the 100+ button, then the remaining two digits on the 10 key pad.

### **2 CHANNEL +/- button**

To scan through the channels, press either the CHANNEL + or CHANNEL - button. You will move through the channels in numerical order.

- After you operate the Auto Tuner Setup (page 13), all of the empty channels will be removed from scanning. When you scan you will only receive clear, active channels.

**Hyperscan** (Available on models AV-20120, AV-20121, and AV-27120 only.)

With JVC's Hyperscan feature you can zip through the channels at a rate of five per second. To use Hyperscan, press and hold either the CHANNEL+ or CHANNEL- buttons. After the first few channels scan at normal speed, the rest will move by at five per second. To scan at normal speed, press and release the CHANNEL+/- button.

### **3 Regular Return**

Press and release the RETURN+ button to return to the previous channel viewed. For example select a channel. Then select another channel using the 10 key pad buttons. You can now flip back and forth between these two channels by pressing RETURN+.

### **4 RETURN+**

With RETURN+ you can program your TV to always return to a specific channel. Press and hold down the RETURN+ button for three seconds. The message, "RETURN CHANNEL PROGRAMMED!" will appear onscreen. Now when you scan through the channels, pressing RETURN+ will bring you back to your programmed channel.

To cancel the RETURN+ channel, press and hold the RETURN+ button for three seconds. The message "RETURN CHANNEL CANCELLED!" will appear onscreen.

- Pressing any number key or turning off the TV will also cancel the RETURN+ channel.

# 10

# Remote Programming

## Setting the CATV & VCR Codes

You can program your remote to operate your cable box or satellite receiver by using the instructions and codes listed below. If the equipment does not respond to any of the codes listed below or to the search code function, use the remote control supplied by the manufacturer.

### Cable Box or Satellite setup (TV models AV-20120, AV-20121, and AV-27120 only)

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

- 1) Find the CATV/Satellite brand from the list of codes shown below.
- 2) Slide the 2-way selector switch to "CATV".
- 3) Press and hold down the DISPLAY button.
- 4) With the DISPLAY button held down, enter the first code number listed using the 10 key pad.
- 5) Release the DISPLAY button.
- 6) Confirm the operation of the Cable Box/Satellite receiver.
  - If your CATV or Satellite box does not respond to the first code, try the others listed. If it does not respond to any code, try the Search Codes Function at the bottom of the page.

| CABLE BOXES        | CODES  | CABLE BOXES        | CODES                             | DIGITAL SATELLITE SYSTEMS | CODES         |
|--------------------|--|--------------------|-----------------------------------|---------------------------|---------------|
| ABC                | 024  | Puser              | 032                               | Echostar                  | 100           |
| Archer             | 032, 025   | RCA                | 061, 070                          | G.E.                      | 106           |
| Cableview          | 051, 032   | Realistic          | 032                               | Gradiente                 | 112           |
| Citizen            | 022, 051   | Regal              | 058, 064, 040, 041, 042, 045, 068 | Hitachi                   | 104, 111      |
| Curtis             | 058, 059   | Regency            | 034                               | HNS (Hughes)              | 104           |
| Diamond            | 024, 032, 025                                    | Rembrandt          | 037, 032, 051, 038                | Panasonic                 | 105           |
| Eagle              | 029  | Samsung            | 051                               | Philips                   | 102, 103      |
| Eastern            | 034  | Scientific Atlanta | 057, 058, 059                     | Primestar                 | 108           |
| GC Brand           | 032, 051   | SLMark             | 051, 047                          | RCA                       | 106, 109, 110 |
| Gemini             | 022, 043   | Sprucer            | 051, 056                          | Sony                      | 107           |
| General Instrument | 065, 024, 025, 026, 027, 020, 021, 022, 057, 023 | Stargate           | 032, 051                          | Toshiba                   | 101           |
| Hamlin             | 040, 041, 042, 045                               | Telecaption        | 067                               | Uniden                    | 102, 103      |
| Hitachi            | 049, 024   | Teleview           | 047, 051                          |                           |               |
| Jerrold            | 065, 024, 025, 026, 027, 020, 021, 022, 057, 023 | Texscan            | 044                               |                           |               |
| Macom              | 049, 050, 051, 054                               | Tocom              | 035, 036, 066                     |                           |               |
| Magnavox           | 033  | Toshiba            | 050                               |                           |               |
| Memorex            | 030  | Unika              | 032, 025                          |                           |               |
| Movietime          | 032, 051   | Universal          | 022, 032                          |                           |               |
| Oak                | 039, 037, 048                                    | Videoway           | 052                               |                           |               |
| Panasonic          | 055, 056, 060                                    | Viewstar           | 029, 030                          |                           |               |
| Paragon            | 063  | Zenith             | 063, 046                          |                           |               |
| Philips            | 028, 029, 030, 052, 053, 031, 069                | Zenith/Drake       | 046                               |                           |               |
| Pioneer            | 047, 062   | Satellite          |                                   |                           |               |
| Pulsar             | 051, 032   |                    |                                   |                           |               |

### Search Codes Function:

- 1) Slide the 2-Way Mode Selector switch to CATV.
- 2) Press the TV POWER and RETURN+ buttons. Hold for at least three seconds and release.
- 3) Press TV POWER, see if the CATV or Satellite box responds.
- 4) If there was a response, press RETURN+. The operating codes are now set. If there was no response, repeat Step 3. If you repeat Step 3 more than 70 times without a response, use the remote control which came with the equipment.

## VCR setup

The remote control is programmed with VCR codes for power on, power off, play, stop, fast-forward, rewind, channel up, and channel down operation.

- 1) Find the VCR brand from the list of codes shown below.
  - 2) Slide the 2-way selector switch to "TV".
  - 3) Press and hold down the DISPLAY button.
  - 4) With the DISPLAY button held down, enter the first code number listed with the 10 key pad.
  - 5) Release the DISPLAY button.
  - 6) Confirm the operation of the VCR.
- If your VCR does not respond to the first code, try the others listed. If it does not respond to any code, try the Search Codes Function at the bottom of the page.
  - Some manufacturer's VCR's may not respond to the TV/VCR button, even if other buttons work properly.
  - To record, hold down the REC button on the remote and press PLAY.
  - **RM-C205 Users:** The model RM-C205 remote control can only be used with JVC-brand VCR's.

| VCRs           | CODES                                  | VCRs        | CODES   | VCRs            | CODES  |
|----------------|--|-------------|---|-----------------|--|
| Admiral        | 035                                    | Magnavox    | 031, 023, 024, 086  | Samsung         | 037, 060, 062, 033, 089                          |
| Aiwa           | 027, 032                               | Marantz     | 003, 004, 005   | Sansui          | 003, 026, 020, 052                               |
| Akai           | 029, 072, 073, 074                     | Marta       | 064   | Sanyo           | 063, 067, 091, 071                               |
| Audio Dynamic  | 003, 005                               | Memorex     | 024, 067  | Scott           | 059, 060, 062, 067, 038, 040, 047, 048, 026, 020 |
| Bell & Howell  | 063, 071                               | MGA         | 038, 040, 047, 048, 041, 042                                    | Sears           | 063, 064, 065, 066, 058, 000, 001                |
| Broksonic      | 020, 026                               | Minolta     | 058, 045  | Shintom         | 075  |
| Canon          | 023, 025                               | Mitsubishi  | 038, 040, 047, 048, 041, 042, 078, 090                          | Sharp           | 035, 036, 080, 088                               |
| CCE            | 043                                    | Multitech   | 047, 027, 062   | Signature 2000  | 027, 035   |
| Citizen        | 064                                    | NEC         | 003, 004, 005, 000  | Singer          | 075  |
| Craig          | 063, 029, 064                          | Olympic     | 024, 023  | Sony            | 028, 029, 030, 053, 054, 055                     |
| Curtis Mathes  | 045, 024, 027, 093                     | Optimus     | 028, 021, 035, 064  | SV2000          | 027  |
| Daewoo         | 043, 059, 024, 092                     | Orion       | 026, 020  | Sylvania        | 031, 023, 024, 027                               |
| DBX            | 003, 004, 005                          | Panasonic   | 023, 024, 021, 022  | Symphonic       | 027, 081   |
| Dimensia       | 045                                    | Penney      | 024, 058, 045, 063, 003, 004, 005, 093                          | Tashiro         | 064  |
| Emerson        | 043, 026, 077, 061, 025, 042, 020, 076 | Pentax      | 058, 005, 045, 093  | Tatung          | 003, 004, 005                                    |
| Fisher         | 063, 066, 067, 065, 071                | Philco      | 031, 024, 027, 023, 026, 020, 043                               | Teac            | 003, 004, 027, 005                               |
| Funai          | 027, 026, 020, 000                     | Philips     | 031, 023, 024, 086  | Technics        | 021, 022, 023, 024                               |
| GE             | 033, 045, 024, 093                     | Pioneer     | 023   | Teknika         | 024, 027, 070                                    |
| Go Video       | 037, 051, 049, 050, 089                | Proscan     | 045, 058, 023, 024, 031, 046, 059, 060, 033, 087, 093           | Toshiba         | 059, 046, 079                                    |
| Goldstar       | 064                                    | Quasar      | 021, 022, 023, 024  | Vector Research | 005  |
| Gradiente      | 083, 084, 081, 000, 001                | Radio Shack | 033, 024, 063, 036, 067, 040, 027                               | Wards           | 035, 036, 067, 044, 064                          |
| Hitachi        | 023, 045, 058, 027, 081, 093           | RCA         | 033, 045, 058, 023, 024, 031, 046, 059, 060, 083, 085, 087, 093 | Yamaha          | 063, 003, 004, 005                               |
| Instant Replay | 024, 023                               | Realistic   | 024, 063, 036, 067, 040, 027                                    | Zenith          | 044, 082, 064                                    |
| Jensen         | 003                                    |             |   |                 |  |
| JVC            | 000, 001, 002, 003, 004, 005           |             |   |                 |  |
| Kenwood        | 003, 004, 064, 005                     |             |   |                 |  |
| LXI            | 027, 064, 058, 065, 066, 063, 067      |             |   |                 |  |

## Search Codes Function:

- 1) Slide the 2-Way Mode Selector switch to TV.
- 2) Press the VCR POWER and RETURN+ buttons. Hold for at least three seconds and release.
- 3) Press VCR POWER, see if the VCR responds.
- 4) If there was a response, press RETURN+. The operating codes are now set. If there was no response, repeat Step 3. If you repeat Step 3 more than 80 times without a response, use the remote control which came with the VCR.

### Using this Guide

Certain symbols are used throughout this guide to help you learn about the features of your new television. The ones you will see most frequently are:

- ▲▼ Up and Down arrows mean press the CHANNEL UP or CHANNEL DOWN buttons. Pressing the UP or DOWN buttons let you:
  - Move vertically in a main menu screen
  - Move through a submenu screen
  - Move to the next letter, number, or other choice in a submenu
  - Back up to correct an error
  - Scan through TV channels (when not in a menu)
- ◀▶ Left and right arrows mean press the VOLUME LEFT or VOLUME RIGHT buttons to:
  - Select a highlighted menu item
  - Select an item in a submenu
  - Select numbers in certain menu options
  - Turn the volume up or down (when not in a menu screen)



The "Press Button" icon means you should press the button named on your remote control. Remote control buttons may have the same name as some menu functions so button names appear in this book in SMALL CAPITAL LETTERS.

### The Onscreen Menus:

To bring up the onscreen menu, press the MENU button on the remote control. The item that appears in yellow is the one currently selected.

When you first operate the TV the "Picture Settings" menu will appear. However, we begin here with "Initial Setup" to help you get your TV ready to view.

#### 1 Initial Setup Items

|  |       |             |
|--|-------|-------------|
| AUTO TUNER SETUP<br>CHANNEL SUMMARY<br>V-CHIP<br>SET LOCK CODE |       |             |
| SELECT   | BY ▲▼ | EXIT BY     |
| OPERATE  | BY ▼▲ | <b>EXIT</b> |

#### 2 Picture Settings

|  |       |             |
|--|-------|-------------|
| TINT<br>COLOR<br>PICTURE<br>BRIGHT<br>DETAIL |       |             |
| SELECT                                       | BY ▲▼ | EXIT BY     |
| OPERATE                                      | BY ▼▲ | <b>EXIT</b> |

#### 3 Picture Settings Screen 2

|  |       |             |
|--|-------|-------------|
| NOISE MUTING                      ON   OFF<br>SET VIDEO STATUS |       |             |
| SELECT   | BY ▲▼ | EXIT BY     |
| OPERATE  | BY ▼▲ | <b>EXIT</b> |

#### 4 Sound Settings (Stereo models only)

|   |       |             |
|---|-------|-------------|
| BASS<br>TREBLE<br>BALANCE<br>MIS                      STEREO   SAP   MONO<br>ON AIR ↑ |       |             |
| TV SPEAKER                      ON   OFF  |       |             |
| SELECT  | BY ▲▼ | EXIT BY     |
| OPERATE   | BY ▼▲ | <b>EXIT</b> |

#### 5 General Items

|   |       |             |
|---|-------|-------------|
| SET CLOCK<br>ON/OFF TIMER<br>LANGUAGE                      ENG   FRE   SPA<br>CLOSED CAPTION<br>BACKGROUND                      BLACK   CLEAR |       |             |
| SELECT  | BY ▲▼ | EXIT BY     |
| OPERATE   | BY ▼▲ | <b>EXIT</b> |

#### NOTES:

If you use the Menu button on the TV's front panel, an additional menu indicating the current channel and TV/Video status will appear between the last Initial Setup menu and the Picture Settings menu.

- TV Speaker available only on stereo models (AV-27120, AV-20120, and AV-20121).

## Auto Tuner Setup

In Auto Tuner Setup, the TV automatically scans through all available channels, memorizing the active ones and skipping over blank ones or channels with weak signals. This means when you scan (using the CHANNEL +/- buttons) you will receive only clear, active channels.



Press the MENU button



To AUTO TUNER SETUP



To operate

|                   |          |              |            |
|-------------------|----------|--------------|------------|
| <b>TUNER MODE</b> | <b>:</b> | <b>CABLE</b> | <b>AIR</b> |
| <b>START</b>      |          |              |            |



To choose CABLE or AIR



To move to START



To start Auto Tuner Setup

|  |
|--|
| <p><b>NOW<br/>PROGRAMMING !</b></p> <p>▶▶▶  ▶▶▶</p> <p><b>48</b></p> |
|--|

*Programming will take approximately 1 to 2 minutes.*

|                          |
|--------------------------|
| <b>PROGRAMMING OVER!</b> |
|--------------------------|

- Noise Muting will not work during Auto Tuner Setup.

## Channel Summary

Channel Summary allows you to customize the line-up of channels received by your TV. You can add or delete channels from the line-up or prevent any unauthorized viewers from watching any or all 181 channels.



Press the MENU button



To CHANNEL SUMMARY



To operate

The Channel Summary screen (below) will now be displayed with the channels set to scan marked with an "X". You can delete channels from the scan by removing the "X". If any channels were missed during Auto Tuner Setup and you wish to add them, you may by placing an "X" next to the channel number.

| CH | ADD |   | : | CH | ADD |   |
|----|-----|---|---|----|-----|---|
| 01 | -   | - | : | 06 | X   | - |
| 02 | X   | - | : | 07 | -   | - |
| 03 | X   | - | : | 08 | -   | - |
| 04 | X   | - | : | 09 | X   | - |
| 05 | X   | - | : | 10 | X   | - |



To the ADD column



To include or delete from scan



Exit when finished

## NOTES:

*Some cable systems experience interference from radio frequencies on cable Channel 95. You may delete this channel from your scan by removing the "X" next to it on the Channel Summary screen.*

# 14

## Initial Setup

### Channel Summary - Lock



Press the MENU button



To CHANNEL SUMMARY



To operate



To the Lock Column



Zero to lock or unlock that channel

| CH | ADD |   | : | CH | ADD |   |
|----|-----|---|---|----|-----|---|
| 01 | X   | - | : | 06 | X   | - |
| 02 | X   | - | : | 07 | -   |   |
| 03 | X   | - | : | 08 | -   |   |
| 04 | X   | - | : | 09 | X   | - |
| 05 | X   | - | : | 10 | X   | - |



Exit when finished

### Channel Guard Message

When a viewer attempts to watch a guarded channel, the following message appears:

**THIS CHANNEL IS LOCKED BY  
CHANNEL GUARD.  
PLEASE ENTER LOCK CODE BY  
10 KEY PAD TO UNLOCK IT.**

NO. - - - -

To watch a channel that you have locked, enter the Lock Code using the 10 key pad (see "Set Lock Code" - at the top of the next column).

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

**INVALID LOCK CODE !**

The channel cannot be accessed until the correct code is entered.

- Once a channel has been unlocked, it will remain unlocked until the television is turned off.

### Set Lock Code

(V-Chip, which appears before Set Lock Code in the onscreen menu system, is discussed in the four-page section beginning on page 15).

*Channel Guard and V-Chip settings are protected by a four-digit Lock Code. Your TV comes pre-set with a Lock Code of "0000". You may change the code to any four-digit number you wish. To change the Lock Code, follow the steps below.*



Press the MENU button



To SET LOCK CODE



To operate



*The padlock icon appears*



Press ZERO to access the Lock Code

**LOCK CODE                      0000**

**FINISH**

*The first digit will be highlighted*



To select the number



To move to the next digit

*Continue to follow these directions for all four numbers*



To FINISH



To save your settings and exit

**THANK YOU !!**

### NOTES:

*After a power interruption you must reset the Lock Code.*

*Write your Lock Code number down and keep it hidden from potential viewers.*

*If you forget the Lock Code, a new code may be set using the steps listed above.*

## V-Chip

Your TV is equipped with V-Chip technology which enables TV Parental Guideline and Movie (MPAA) Guideline controls. V-Chip technology allows you to program your TV to receive, or not to receive, programs based on content according to the guidelines. Programs which exceed the ratings limits you set will be blocked.

When a viewer attempts to watch a blocked channel, this message appears:

**THIS PROGRAMMING EXCEEDS  
YOUR RATINGS LIMITS.  
PLEASE ENTER LOCK CODE BY  
10 KEY PAD TO UNLOCK IT.  
NO. - - - -**

To watch a blocked channel, enter the lock code (page 14) using the 10 key pad.

## To set up the TV Parental Guideline Ratings:



Press the MENU button



To V-CHIP



To operate (Lock icon  will appear)



Press ZERO to access the V-Chip menu

**V-CHIP ON OFF  
SET US TV RATINGS  
SET MOVIE RATINGS  
  
UNRATED VIEW BLOCK  
  
FINISH**



To turn V-Chip ON or OFF



To move to SET US TV RATINGS



To operate

|      | TV<br>MA      | TV<br>14 | TV<br>PG | TV<br>G | TV<br>Y7 | TV<br>Y |
|------|---------------|----------|----------|---------|----------|---------|
| V/FV | —             | —        | —        | —       | —        | —       |
| S    | —             | —        | —        | —       | —        | —       |
| L    | —             | —        | —        | —       | —        | —       |
| D    | —             | —        | —        | —       | —        | —       |
|      | <b>FINISH</b> |          |          |         |          |         |

## U.S. PARENTAL RATING SYSTEMS

### Programs with the following Ratings are appropriate for Children.

**TV Y is Appropriate for All Children.**

Programs are created for very young viewers and should be suitable for all ages, including children ages 2 - 6.

**TV Y7 is for Older Children.**

Most parents would find such programs suitable for children 7 and above. They may contain some mild fantasy violence or comedic violence, which children should be able to discern from reality.

### Programs with the following Ratings are designed for the entire audience.

**TV G stands for General Audience.**

Most parents would find these programs suitable for all age groups. They contain little or no violence, no strong language, and little or no sexual dialog or situations.

**TV PG Parental Guidance Suggested.**

May contain some, but not much, strong language, limited violence, and some suggestive sexual dialog or situations. It is recommended that parents watch these programs first, or with their children.

**TV 14 Parents Strongly Cautioned.**

Programs contain some material that may be unsuitable for children under the age of 14 including possible intense violence, sexual situations, strong coarse language, or intensely suggestive dialog. Parents are cautioned against unattended viewing by children under 14.


**TV MA Mature Audiences Only.**

These programs are specifically for adults and may be unsuitable for anyone under 17 years of age. TV MA programs may have extensive V, S, L, or D.

## Viewing Guidelines

- V/FV is for VIOLENCE/FANTASY VIOLENCE
- S stands for SEXUAL CONTENT
- L stands for strong LANGUAGE
- D stands for suggestive DIALOG





**Directions to Block Viewing:**


Line up the cursor in the column (TV PG, TV G, etc.) with the content row (V/FV, S, etc.) and press the ▲ or ▼ to move the cursor to the correct location. Press ◀ or ▶ to turn the locking feature on or off. An item is locked if the  icon appears instead of a "—".

**For example.** To block viewing of all TV 14 shows:

Move the cursor to the top row of that column and add a lock icon. Once you've put a lock on the top row, everything in that column is automatically locked.

- ▲▼ To the TV 14 Column
- ◀▶ To turn on the lock

|               | TV MA | TV 14   | TV PG | TV G | TV Y7 | TV Y |
|---------------|-------|---|-------|------|-------|------|
| V/FV          | —     |    | —     | —    | —     | —    |
| S             | —     |    | —     | —    | —     | —    |
| L             | —     |  | —     | —    | —     | —    |
| D             | —     |  | —     | —    | —     | —    |
| <b>FINISH</b> |       |   |       |      |       |      |




- ▲▼ To FINISH
- ◀▶ To save settings and exit
-  Press EXIT when done

- If you want to change the setup, move the cursor to the top column and change the lock icon to "—". You may then select individual categories to block.

**Special Note about Ratings**

Some programs are not broadcast with a ratings signal. Therefore, even if you setup V-Chip ratings limits, these programs will not be blocked. Parents are cautioned to preview the contents of these programs or movies.

**Directions to set up Movie Ratings:**

-  Press the MENU button
- ▲▼ To V-CHIP
- ◀▶ To operate (Lock icon  appears)
-  Press ZERO to access V-Chip setup options
- ▲▼ To SET MOVIE RATINGS
- ◀▶ To enter movies menu

|               |    |   |       |    |   |    |
|---------------|----|---|-------|----|---|----|
| X             | NR | R | PG-13 | PG | G | NR |
| —             | —  | — | —     | —  | — | —  |
| <b>FINISH</b> |    |   |       |    |   |    |

 **NR - Not Rated.**

This is a film which has no rating. In many cases these films were imported from countries which do not use the MPAA ratings system. Other NR films may be from amateur producers who didn't intend to have their film widely released.

*NR (Not Rated) Programming may contain all types of programming including children's programming, foreign programs, or adult material.*

 **G – General Audience.**

In the opinion of the review board, these films contain nothing in the way of sexual content, violence, or language that would be unsuitable for audiences of any age.

 **PG – Parental Guidance.**

Parental Guidance means the movie may contain some contents such as mild violence, some brief nudity, and strong language. The contents are not deemed intense.

 **PG-13 – Parents Strongly Cautioned.**

Parents with children under 13 are cautioned that the content of movies with this rating may include more explicit sexual, language, and violence content than movies rated PG.


**NOTE (For Canadian Viewers):**

*V-Chip function is based on specifications for the United States and therefore may not work properly in Canada.*



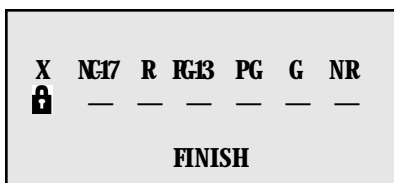
- ❑ **R Restricted.**  
These films contain material that is explicit in nature and is not recommended for unsupervised children under the age of 17.
- ❑ **NC-17 No One Under 17.**  
These movies contain content which most parents would feel is too adult for their children to view. Content can consist of strong language, nudity, violence, and suggestive or explicit subject matter.
- ❑ **X No One under 18.**  
Inappropriate material for anyone under 18.

### Directions to Block Movie Viewing:

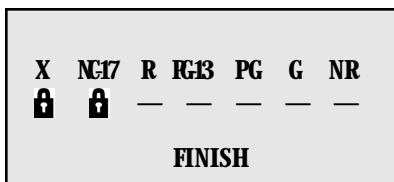
To block viewers from any or all of these ratings categories, press the ▲ or ▼ to move the cursor to the correct location. Press the ◀ or ▶ buttons to turn the locking feature on or off. An item is blocked if the  icon appears instead of a "—".


**For example**, to block viewing of X and NC-17 rated from shows:

- ▲▼ To the X Column
- ◀▶ To turn on the lock



- ▲▼ To the NC-17 Column
- ◀▶ To turn on the lock



- ▲▼ To FINISH
- ◀▶ To save settings and exit
-  Press EXIT when done

### Notes About Unrated Programs:

Unrated programming refers to any programming which does not contain a rating signal. Programming on television stations which do not broadcast rating signals will be placed in the "Unrated Programming" category.





Examples of Unrated programs:

- Emergency Bulletins
- Locally Originated Programming
- News
- Political Programs
- Public Service Announcements
- Religious Programs
- Sports
- Weather
- Some Commercials

- TV programs or movies that do not have rating signals will be blocked if the Unrated Category is set to LOCK.

### Directions to Block Unrated Programs:

You can block programs that are not rated.

-  Press the MENU button
  - ▲▼ To V-CHIP
  - ◀▶ To operate (The lock icon  appears)
  -  Press ZERO to access V-Chip setup options
  - ▲▼ To UNRATED
- UNRATED    VIEW    BLOCK
- ◀▶ To View or Block
  -  Press EXIT when done

### NOTES:

*In order for V-Chip settings to take effect, **V-Chip settings must be turned ON in the V-Chip menu (page 15).** You can automatically unblock all of your restrictions by turning V-Chip settings OFF in the V-Chip menu (page 15). You can always unblock a restriction by re-entering the V-Chip menu and removing the lock icon.*

### Accessing V-Chip Information:

To access Rating information about a certain program, press the V-CHIP button while viewing that program. A display like this will appear:



If you decide you want to block this category of viewing, press "0" while the above screen is visible, and all programs from that category will be blocked.

### Example 1:

If you want to set your V-Chip settings to block *all* programming above TV PG:



Press ZERO when TV-PG is displayed

|      | TV MA | TV 14 | TV PG | TV G | TV Y7 | TV Y |
|------|-------|-------|-------|------|-------|------|
| V/FV | 🔒     | 🔒     | 🔒     | —    | —     | —    |
| S    | 🔒     | 🔒     | 🔒     | —    | —     | —    |
| L    | 🔒     | 🔒     | 🔒     | —    | —     | —    |
| D    | 🔒     | 🔒     | 🔒     | —    | —     | —    |

All Programming above TV PG will be blocked.

### Example 2:

If you want to set your V-Chip settings to block all programming above a current setting such as TV PG-V (with violence):



Press ZERO when TV-PG - V is displayed

|      | TV MA | TV 14 | TV PG | TV G | TV Y7 | TV Y |
|------|-------|-------|-------|------|-------|------|
| V/FV | —     | —     | 🔒     | —    | —     | —    |
| S    | —     | —     | 🔒     | —    | —     | —    |
| L    | —     | —     | —     | —    | —     | —    |
| D    | —     | —     | —     | —    | —     | —    |

All Programming above TV PG with Violence will be blocked!

- For Children's programming you can block TV-Y and Y programs by Pressing "0" when Y is displayed during a program. Programming for audiences other than children's audiences will not be affected.

### Set Lock Code

The Lock Code locks and unlocks your Channel Guard and V-Chip settings. For information on setting or changing the Lock Code, please see "Set Lock Code" on page 14.

## Tint

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

- ▲▼ To TINT
- ▶ to increase the levels of green
- ◀ To increase the levels of red
- ▲▼ To move to the next setting

## Color

The color function lets you make all the colors in the TV picture appear either more vivid or subtle.

- ▲▼ To COLOR
- ▶ To make the colors more vivid
- ◀ To make the colors more subdued
- ▲▼ To move to the next setting

## Picture

Picture allows you to adjust the levels of black and white on the TV screen, giving you a darker or brighter picture overall.

- ▲▼ To PICTURE
- ▶ To increase the level of contrast
- ◀ To decrease the level of contrast
- ▲▼ To move to the next setting

## Bright

You can adjust the overall brightness of the TV picture with the Bright control.

- ▲▼ To BRIGHT
- ▶ To lighten the picture
- ◀ To darken the picture
- ▲▼ To move to the next setting

## Detail

The Detail feature adjusts the level of fine detail displayed in the picture.

- ▲▼ To DETAIL
- ▶ To make the picture sharper (more details)
- ◀ To make the picture smoother (less detail)
- ▲▼ To move to the next setting

## Noise Muting

This feature inserts a blank blue screen over channels which are not broadcasting or are too weak to be received clearly.



Press the MENU button

- ▲▼ To NOISE MUTING
- ◀▶ To turn Noise Muting ON or OFF

- Noise Muting will not work during Auto Tuner Setup or when you operate Channel Summary.

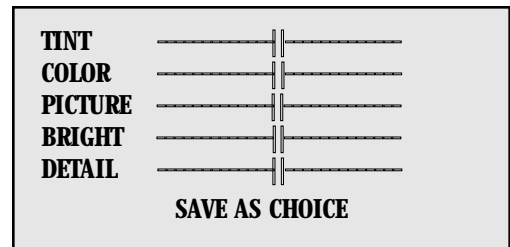
## Set Video Status

With Set Video Status, you can save your own set of picture quality adjustments as "Choice" and have access to them at the touch of a button.



Press the MENU button

- ▲▼ To SET VIDEO STATUS
- ◀▶ To operate



- ◀▶ To set the TINT levels
- ▲▼ To move to the next option

Repeat these steps until all levels are set.

- ▲▼ To SAVE AS CHOICE
- ◀▶ To save settings and exit

**THANK YOU !!**

- You must use SAVE AS CHOICE to exit the Set Video Status menu, otherwise your preferences will not be saved.

- You can access your "Choice" settings at any time by pressing the VIDEO STATUS button on the remote control.

## NOTES:

The setting screen will disappear if you do not make any adjustments or move to the next setting in approximately three seconds. Any changes you have made to picture settings up to that point will be stored.

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

## Bass

You can increase or decrease the level of low-frequency sound in the TV's audio with the Bass adjustment.



Press the MENU button



To BASS



To increase the bass



To decrease the bass



To move to the next setting

## Treble

Use Treble to adjust the level of high-frequency sound in your TV's audio.



Press the MENU button



To TREBLE



To increase the treble



To decrease the treble



To move to the next setting

## Balance

Adjust the level of sound between the TV's two speakers with the Balance setting.



Press the MENU button



To BALANCE



To shift the balance towards the right speaker



To shift the balance towards the left speaker



To move to the next setting

## MTS (Multi-Channel Television Sound)

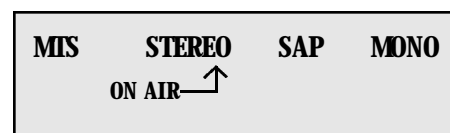
MTS technology allows several audio signals to be broadcast at once, giving you a choice in what you wish to hear with a TV program. In addition to mono or stereo sound, an MTS broadcast may also include a Second Audio Program (SAP).



Press the MENU button



To MTS



Select the mode

(The ON AIR arrow tells you if a broadcast is in Stereo and/or contains an SAP).

- Keep the TV in STEREO mode to get the best sound quality. The sound will work in STEREO mode even if a certain broadcast is in MONO sound only.
- Choose the MONO setting to reduce excessive noise on a certain channel or broadcast.
- Selecting SAP will allow you to hear an alternative soundtrack, if one is available.

### 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 screen. Unfortunately, while many programs are originally broadcast in stereo, some cable companies may "squash" the transmission to mono sound because they have only mono equipment. If you are connected to a cable system, the sound quality is determined by the cable company. If they broadcast only in mono, you will receive only mono sound, even if the program was aired in stereo.

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

### NOTES (For Stereo Models Only):

Bass, Treble, Balance and MTS settings are available only on the following models:


• AV-20120, • AV-20121, • AV-27115, • AV-27120

You can leave the Sound Settings menu at any time by pressing the EXIT button on the remote control.

## Set Clock - Auto (XDS)


Before you use any of your TV's timer functions, you must first set the clock. You may precisely set your clock using the XDS time signal broadcast by most Public Broadcasting (PBS) stations.

To set the clock using the XDS signal:

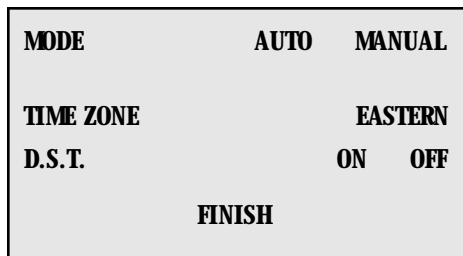
 Enter the channel number of your local PBS station

 Press MENU


 To SET CLOCK

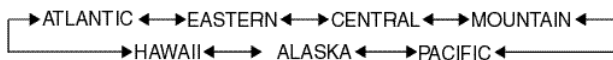
 To operate

 To AUTO



 To TIME ZONE

 To select your time zone



 To move to Daylight Savings Time (D.S.T.)

 To turn D.S.T. ON or OFF

 To FINISH

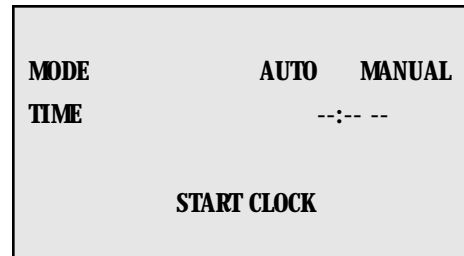
 To Exit and save settings

- If you do not have a PBS station in your local area, you will have to set the clock manually. See 'Set Clock - Manual' at the top of the next column for instructions.


- The Daylight Savings Time feature automatically adjusts your TV's clock for Daylight Savings. The clock will move forward one hour at 2:00 am on the first Sunday in April. The clock will move back one hour at 2:00 am on the last Sunday in October.

## Set Clock - Manual

To set your clock manually (without using the XDS signal), choose MANUAL from the Set Clock menu and follow the steps below.





 To move to the hour

 To set the hour

 To move to minutes

 To set the minutes


 To move to START CLOCK

 To start clock and exit



## TV Speaker

If your TV is connected to a stereo system, you can turn off the TV speakers and listen to the audio through your stereo.

 Press the MENU button

 To TV SPEAKER



 To turn the TV's speakers ON or OFF

 EXIT when finished

- Before you turn the TV Speaker setting from OFF to ON, **make sure that the TV volume level is low!** If the TV volume is set too high, the sound level will be extremely loud.

- After a power interruption, the TV Speaker settings will return to "ON".

## NOTES:

The TV Speaker option is available only on the following models: • AV-20120, • AV-20121, • AV-27120

XDS (Automatic clock-setting feature) is available on all models except for AV-27115. You will have to reset the clock after a power interruption of 90 seconds or longer. You must set the clock before operating any timer functions.

### On/Off Timer

The On/Off timer lets you program your television to turn itself on or off. You can use it as an alarm to wake up, to help you remember important programs, or as a decoy when you're not home.



Press the MENU button

▲▼ To ON/OFF TIMER

◀▶ To operate (begins with ON TIME)

|                     |                      |
|---------------------|----------------------|
| <b>ON TIME</b>      | <b>7:00 PM</b>       |
| <b>OFF TIME</b>     | <b>10:00 PM</b>      |
| <b>CHANNEL</b>      | <b>02</b>            |
| <b>MODE</b>         | <b>ONCE EVERYDAY</b> |
| <b>ON/OFF TIMER</b> | <b>YES NO</b>        |
| <b>FINISH</b>       |                      |

◀▶ 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 move to OFF TIME (the time the TV will turn off). Set the OFF TIME the same way as ON TIME

▼ To accept OFF TIME and move to CHANNEL

◀▶ To select channel

▼ To move to MODE

◀▶ Choose ONCE or EVERYDAY

▼ To ON/OFF TIMER

◀▶ Choose YES to accept the timer setting, choose NO if you don't wish to accept

▼ To FINISH

◀▶ To save settings

**THANK YOU !!**

### Language

You can choose to view your onscreen menus in three languages: English, Spanish, or French.



Press the MENU button

▲▼ To LANGUAGE

**LANGUAGE      ENG    FRE    SPA**

◀▶ To choose a language



Exit when finished

### Closed Caption

Use this function to display the Closed Captioning text onscreen (when included in a broadcast).



Press the MENU button

▲▼ To CLOSED CAPTION

◀▶ To operate

|                |                          |
|----------------|--------------------------|
| <b>MODE</b>    | <b>: CAPTION</b>         |
| <b>CAPTION</b> | <b>: CC1 CC2 CC3 CC4</b> |
| <b>TEXT</b>    | <b>: T1 T2 T3 T4</b>     |
| <b>FINISH</b>  |                          |

◀▶ To select Caption, Text, or Off.

▲▼ To CAPTION or TEXT

◀▶ To select a caption or text channel

▲▼ To FINISH

◀▶ To save setting and exit

### Background

Choose a black or clear background for the onscreen menus.



Press the MENU button

▲▼ To BACKGROUND

**BACKGROUND      BLACK    CLEAR**

◀▶ To select BLACK or CLEAR



Exit when finished

### NOTES:

Closed Captions subtitles are usually found on caption channel CC1. Some programs may include additional text information which is usually found on text channel T1. The other channels are available for future use.

Closed captioning may not work correctly if the signal being received is weak or if you are playing a video tape.

Most broadcasts containing Closed Captioning will display a notice at the start of the program.

On/Off Timer cannot be set to locked or guarded channels.

In order for the On/Off Timer to work, the clock must be set. After a power interruption Timer settings must be reset.

## Menu

The **MENU** button allows you to access the onscreen menu system. Press **MENU** to activate the onscreen menu system.

- See individual topics (like "Sound Settings") for specific information on using menus.

## Exit

Press the **EXIT** button to leave a menu screen and return to normal television viewing.

## Display

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



Press the **DISPLAY** button

|                     |                 |
|---------------------|-----------------|
| <b>07</b>           |                 |
| <b>NOW</b>          | <b>12:20 PM</b> |
| <b>SLEEP TIMER</b>  | <b>OFF</b>      |
| <b>ON/OFF TIMER</b> | <b>EVERYDAY</b> |
| <b>ON TIME</b>      | <b>7:00 PM</b>  |
| <b>OFF TIME</b>     | <b>10:00 PM</b> |

- The channel or AV input (Channel 07)
- The current time (12:20 pm)
- Sleep Timer status/minutes remaining (The Sleep Timer is off)
- On/Off Timer status (Set to turn on everyday at 7:00 PM, off at 10:00 PM)
- Each Press of the **DISPLAY** button changes the display mode:



**Display** - Full screen shown above

**Time** - Shows the current time only

**Channel** - Shows the current channel

**Off** - Turns Display off

- You may also turn off the Display at any step by pressing **EXIT**.

## Video Status

The **VIDEO STATUS** button gives you a choice of three TV picture display settings, including a display of your own preferences.

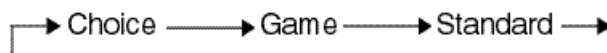
**Standard** - Resets the picture display to the factory settings.

**Choice** - Displays the setting levels you specified on the "Set Video Status" Menu (see page 19).

**Game** - Enhanced settings designed especially for use with video games.



Press the **VIDEO STATUS** button



## Sleep Timer

The **Sleep Timer** can turn the TV off for you after you fall asleep. Program it to work in intervals of 15 minutes, for a total time of up to 180 minutes.



Press the **SLEEP TIMER** button



### Sleep Timer Message

20 seconds before the automatic shutoff, 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 the shutoff for another 15 minutes.

## Hyper Surround

Available on AV-27120 only.

Creates a deep, three-dimensional sound effect by channeling the audio through the TV's front-firing speakers. Press the **HYPER SURROUND** button to turn the effect on or off.

**HYPER SURROUND      ON      OFF**

## NOTES:

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

## Number Buttons - 10 Key Pad

To move directly to a specific channel, enter the channel number with the number buttons on the remote. For example, to move to Channel 7:



0 (zero)



7 (seven)

## 100+ Button

Use the 100+ button to directly access channels above Channel 99. For example to move to channel 124:



100+



2 (two)



4 (four)

## Muting

The **MUTING** button instantly turns the volume down completely when you press it.



MUTING

The volume level will instantly go to zero.

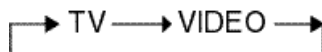
- To restore the volume to its previous level, press **MUTING** again.

## Input

Selects the input source: **TV** (cable or antenna input) or **Video** (VCR or other video device).



INPUT



## Return+

The **RETURN+** button has two functions:

**Return** - Returns to the channel viewed just before the channel currently onscreen.

**Return+** - Lets you program a specific channel to return to while scanning through the channels.



**RETURN+** and hold for five seconds

**RETURN CHANNEL  
PROGRAMMED !**

Scan using the **Channel+/-** buttons



**RETURN+**

You will return to your programmed channel.

- To cancel your **Return+** channel, press and hold the **RETURN+** button for five seconds. The message "RETURN CHANNEL CANCELLED!" will appear.
- **Return+** works only with **CHANNEL+/-**. Pressing any number key will cancel **Return+**.
- For more information on **Return** and **Return+**, turn to page 12.

## VCR Buttons

You can use this remote control to operate the basic functions of your VCR. These functions include: *play, record, rewind, fast-forward, stop, pause, channel scan, TV / VCR, power on, and power off.*

- The remote is preset with the code 000 to control JVC-brand VCR's. For any other manufacturer's brand VCR, please see the code chart and instructions on page 11.

• **RM-C205 Users:** The model RM-C205 remote will only control JVC-brand VCR's.



| PROBLEMS   | CHECK  |
|--|--|
| There is no power                                  | <ul style="list-style-type: none"> <li>• See if the power cord became unplugged.</li> <li>• Check for a blown fuse or circuit breaker or a power outage.</li> </ul>  |
| There is no picture or sound                       | <ul style="list-style-type: none"> <li>• The antenna could be disconnected.</li> <li>• The input mode could be set improperly. See page 24.</li> <li>• The tuner (Auto Tuner Setup) could be set improperly. See page 13.</li> <li>• The TV station may be having difficulties. Check to see if other stations are working.</li> </ul> |
| Remote control is not operating properly or at all | <ul style="list-style-type: none"> <li>• Check to see that the batteries are still working and properly installed.</li> <li>• Make sure the remote has a clear sight path to the TV.</li> <li>• Check that the TV/CATV switch is in the proper position (RM-381/RM-380 only).</li> </ul>   |
| You cannot select a certain channel                | <ul style="list-style-type: none"> <li>• You may be too far from the TV. You must be within 23 feet (7 meters).</li> <li>• Make sure the channels have been programmed. See "Channel Summary", page 13.</li> <li>• Check to see if the channel is locked. See "Channel Summary - Lock" page 14.</li> </ul>                             |
| The power turns off by itself                      | <ul style="list-style-type: none"> <li>• Make sure the set did not become unplugged.</li> <li>• Perhaps the On/Off Timer is set. See page 22.</li> <li>• Check to see if the Sleep Timer was set. See page 23.</li> </ul>  |
| The clock is wrong                                 | <ul style="list-style-type: none"> <li>• The power was interrupted and the clock was not reset. See page 21.</li> </ul>  |
| The On Timer is blinking                           | <ul style="list-style-type: none"> <li>• There is a problem with the TV. Unplug the set and call for service.</li> </ul>   |
| The color quality is poor                          | <ul style="list-style-type: none"> <li>• Tint and Color may be improperly adjusted. See page 19.</li> <li>• The Video Status mode may be turned to the wrong setting. See page 19.</li> </ul>  |
| There are lines across the picture                 | <ul style="list-style-type: none"> <li>• There could be interference from another electrical appliance, such as a computer, another TV or VCR. Move any such appliances further away from the TV.</li> </ul>   |
| The picture is spotted                             | <ul style="list-style-type: none"> <li>• There could be interference from a high-wattage appliance, like a hairdryer or vacuum, operating nearby. Move the antenna away from the appliance or change to a coaxial cable connection which is less prone to interference.</li> </ul>   |
| There are double pictures (ghosts)                 | <ul style="list-style-type: none"> <li>• A building or passing airplane can reflect the original signal and produce a second, slightly delayed one. Adjust your antenna position.</li> </ul>   |
| Picture is snowy (image noise)                     | <ul style="list-style-type: none"> <li>• Your antenna may be damaged, disconnected or turned. Check the antenna connection page 6 and in your Quick Setup Guide. If the antenna is damaged, replace it.</li> </ul>   |
| Screen is 80% black                                | <ul style="list-style-type: none"> <li>• The Closed Caption Text mode is on. Turn it off in the Closed Caption Menu, page 22.</li> </ul>   |
| Stereo or bilingual programs can't be heard        | <ul style="list-style-type: none"> <li>• Make sure the MTS settings are correct. See "MTS" on page 20.</li> </ul>  |
| There is no sound from the TV speakers             | <ul style="list-style-type: none"> <li>• The TV SPEAKER option may be turned off. See page 21.</li> </ul>  |
| Static electricity                                 | <ul style="list-style-type: none"> <li>• It is normal to feel static electricity if you brush or touch the screen.</li> </ul>  |
| You hear occasional crackling sounds               | <ul style="list-style-type: none"> <li>• It is normal for the TV to make crackling sounds when first turned on or off. Unless the sound or picture become abnormal, this is fine.</li> </ul>   |

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

JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original retail purchase for the period shown below (the "Warranty Period") (PICTURE TUBE is covered for Two (2) years.)

|              |              |
|--------------|--------------|
| <b>Parts</b> | <b>Labor</b> |
| 1 YEAR       | 1 YEAR       |

**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 <http://www.jvcservice.com>. 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 JVC Product, 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 MERCHANTABILITY, 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.

JVC COMPANY OF AMERICA  
 DIVISION OF JVC AMERICAS CORP.  
<http://www.jvcservice.com>

1700 Valley Road  
 Wayne, New Jersey 07470

**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

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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.

10 New Maple Avenue  
Pine Brook, NJ 07058-9641  
(973) 396-1000

1500 Lakes Parkway  
Lawrenceville, GA 30243-5857  
(770) 339-2582

705 Enterprise Street  
Aurora, IL 60504-8149  
(630) 851-7855

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

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

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

13 Cummings Park  
Woburn, MA 01801  
(781) 376-9100

8192 State Road 84  
Davie, FL 33324  
(954) 472-1960

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                                       | C-13110<br>C-13111  | C-20110   | AV-20120<br>AV-20121   | AV-27115<br>AV-27120   |
|---|---|---|--|--|
| Reception Format                            | NTSC System   |   | NTSC, BTSC System (Multi-Channel Sound)  |  |
| Reception Range                             | VHF 2 to 13, UHF 14 to 69<br>Sub Mid, Mid, Super, Hyper and Ultra bands<br>(181 channel frequency synthesizer system) |   |  |  |
| Power Source                                | AC 120V, 60Hz   |   |  |  |
| Power Consumption                           | 60W / 1.1A  | 87W / 1.4A  |  | 113W / 1.8A  |
| Screen Size                                 | 13 inch / 34 cm<br>measured diagonally<br>full square   | 20 inch / 51 cm<br>measured diagonally<br>full square |  | 27 inch / 68 cm<br>measured diagonally<br>full square  |
| Audio Output                                | 1W  |   | 1W + 1W  | 1.2W + 1.2W  |
| Speakers                                    | 3 1/16 / 8 cm<br>round x 1  | 2 x 3 1/2 / 5x9 cm<br>oval x 1                        | 2 x 3 1/2 / 5x9 cm<br>oval x 2   |  |
| Antenna Terminal                            | 75 ohms (VHF/UHF) (F-type connector)  |   |  |  |
| External Input Jacks                        | Video: 1 Vp-p, 75 ohms<br>Audio: 500mVrms (-4dBs) high impedance  |   |  |  |
| Variable Audio Output (Except for AV-27115) | —   |   | VARI: More than 0 to 1550 mVrms (+6 dBs),<br>FIX: 500mVrms (-4dBs) Low impedance (400 Hz<br>when modulated 100%) |  |
| S-Video Input Jacks (AV-27120 only)         | —   |   |  | Y: 1Vp-p positive, 75 ohms<br>(negative sync provided)<br>C: 0.286 Vp-p (burst signal),<br>75 ohms |
| Headphone Jack                              | 3.5 mm mini jack x 1  |   |  | —  |
| Dimensions (in)<br>WxHxD (cm)               | 14 3/8 x 13 1/8 x 14 3/4<br>36.4 x 33.4 x 37.4  | 19 7/8 x 17 7/8 x 19 1/2<br>50.3 x 45.2 x 49.3        |  | 25 3/4 x 23 3/8 x 19 1/2<br>65.4 x 59.3 x 49.4   |
| Weight (lbs / kg)                           | 19.8 / 9.0  | 43.2 / 19.6   | 43.8 / 19.9  | 68.5 / 31.1  |
| Accessories                                 | Remote control unit x 1 / AA batteries x 2  |   |  |  |

Specifications subject to change without notice.

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