

# JVC®

## ***COLOR TELEVISION USER'S GUIDE***

***For models:***

***C-13010***

***C-13011***

***C-20010***

***AV-20020***

***AV-20021***

***AV-27015***

***AV-27020***



*(Illustration of AV-27020 and RM-C345)*

**IMPORTANT NOTE TO THE CUSTOMER:**

In the spaces below, enter the model and serial number for your television (located on 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.





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Model Number

---

Serial Number

# IMPORTANT SAFETY PRECAUTIONS

|  |  |   |
|--|--|---|
|   | <b>CAUTION</b><br><b>RISK OF ELECTRIC SHOCK</b><br><b>DO NOT OPEN</b>  |  |
| <b>CAUTION: To reduce the risk of electric shock.</b><br><b>Do not remove cover (or back).</b><br><b>No user serviceable parts inside.</b><br><b>Refer servicing to qualified service personnel.</b> |  |   |
|   | 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.**

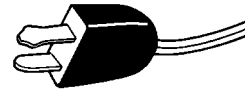
Electrical energy can perform many useful functions. This TV set has been engineered and manufactured to assure your personal safety. But *improper use can result in potential electrical shock or fire hazards*. In order not to defeat the safeguards incorporated in this TV set, observe the following basic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

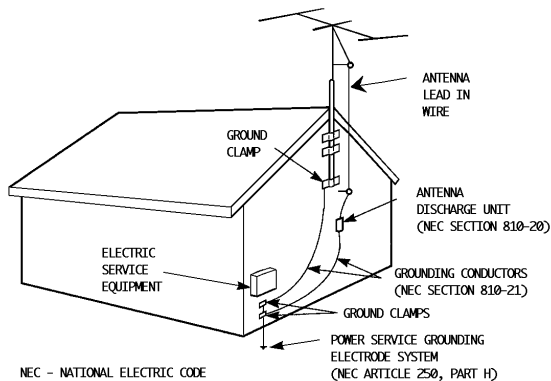


This safety feature allows the plug to fit into the power outlet only one way. Should you be unable to insert the plug fully into the outlet, try reversing the plug. Should it still fail to fit, contact your electrician.

- 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, that there are illustrations of select models for your reference. There are several models in this guide and therefore each illustration will not be of the model you own. Just 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 — 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.

**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 (Mono) connections (if your VCR is mono, it will have a white or black plug, no red)

**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.

**5) In and Out Concept.** Remember In and Out. The Output jack from one piece will go to the Input jack of the other — read the jack panels, they are all labeled.

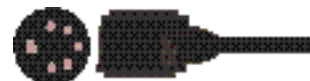
A/V input plug



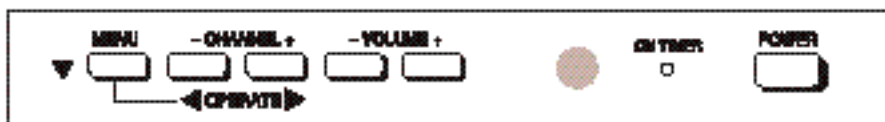
RF Connectors



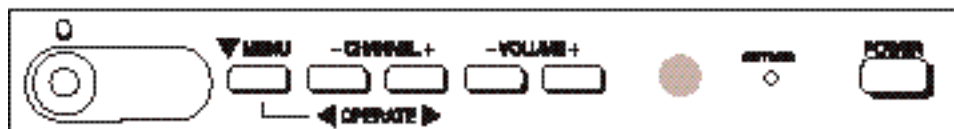
S-Video Plug



## FRONT PANEL DIAGRAMS



**AV-27020 • AV-27015 Front Panel**



**AV-20020 • AV-20021 • C-20010 Front Panel**

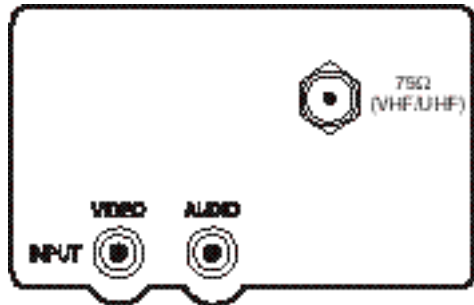


**C-13010 • C-13011 Front Panel**

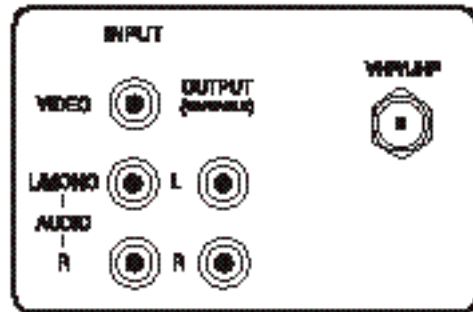


# 6 CONNECTIONS

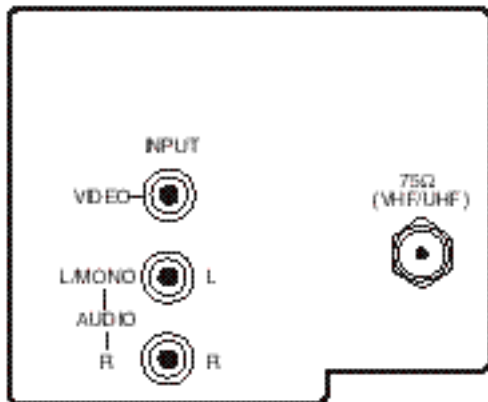
## REAR PANEL DIAGRAMS



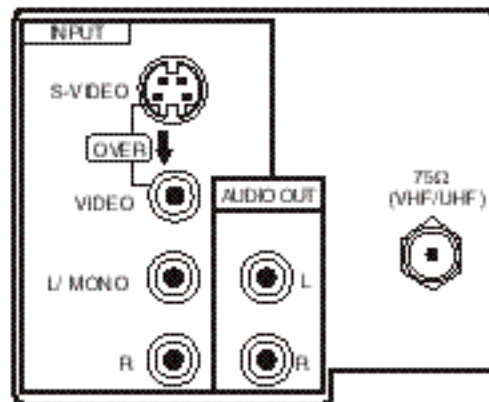
C-13010 • C-13011  
C-20010



AV-20020 • AV-20021



AV-27015



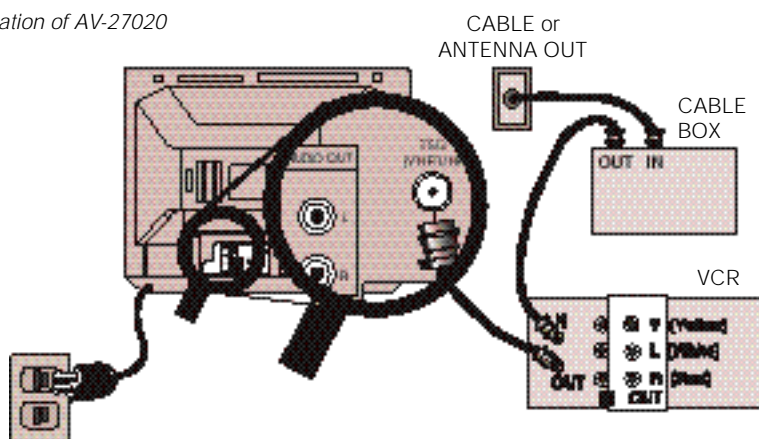
AV-27020

## CABLE BOX CONNECTION

If you do not require a cable box to access any or all channels, refer to the Quick Setup Guide.

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

Illustration of AV-27020



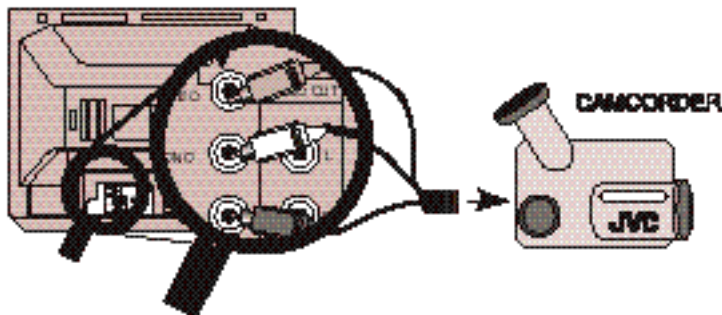
- 1) Connect the cable wire *out* from the wall *in* to the cable box RF input.
- 2) Connect an RF cable *out* from the cable box, *in* to VCR RF input.
- 3) Connect an RF cable *out* from VCR RF output, *in* to TV VHF/UHF input.
- 4) Plug the power cord into a nearby AC outlet

☐ Refer to the VCR and/or cable box instructions.

## CONNECTING TO A CAMCORDER

You can connect a camcorder right to your TV. For other video/VCR connections see the Quick Setup Guide.

Illustration of AV-27020



- 1) Connect a white audio cable from the camcorder output into the TV's Left Audio input jack.
- 2) Connect a yellow video cable from the camcorder output into the TV's Video input jack.
- 3) If you have both a stereo model TV and camcorder, connect the red audio cable from the camcorder output into the TV Right audio input jack.

☐ Refer to the camcorder's instructions.

## CONNECTING TO AN EXTERNAL AMPLIFIER

AV-20020, AV-20021 & AV-27020 only. If you set the TV Speaker to off (see page 17 for special setup), you can adjust the amplifier's sound with the TV remote's VOLUME +/- button!

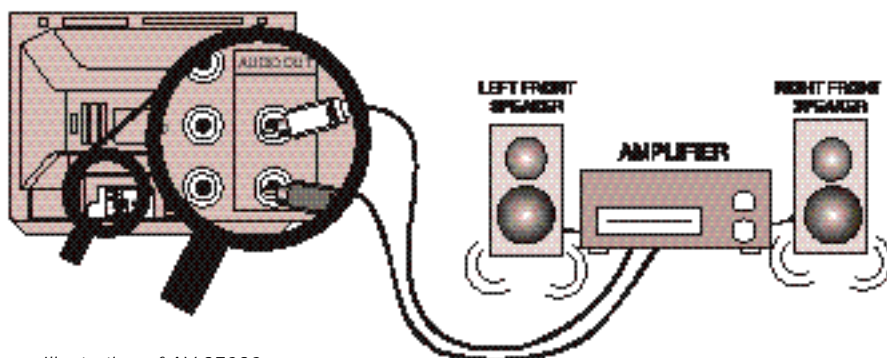


Illustration of AV-27020

- 1) Connect a white audio cable from the TV Left Audio output jack into the Amplifier's Left Audio input.
- 2) Connect a red audio cable from the TV Right Audio output jack into the Amplifier's Right Audio input.

☐ Refer to the amplifier's instructions.

## CONNECTING TO HEADPHONES/EARPHONES

You can connect headphones to the TV's front panel headphone jack on the AV-20020 and AV-20021. You can connect earphones to the C-13010, C-13011, and the C-20010.

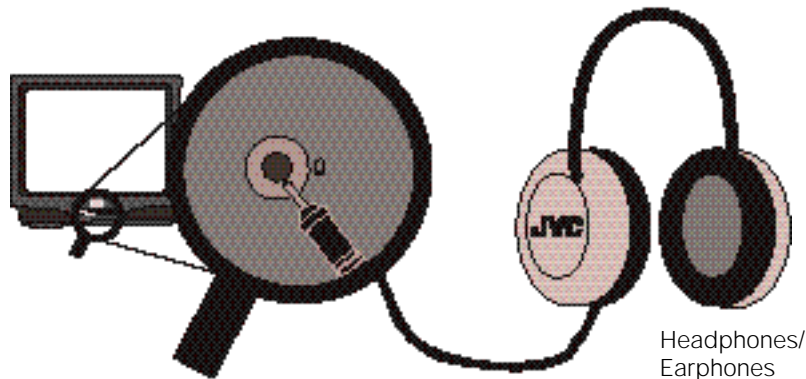


Illustration of C-13010

- 1) Connect the headphones plug to the TV's headphones input jack on the front panel.

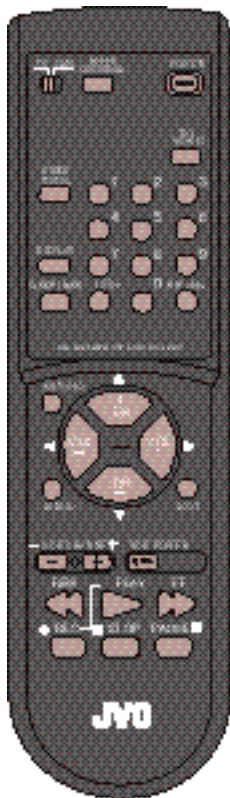
☐ Refer to the headphones or earphones instructions.



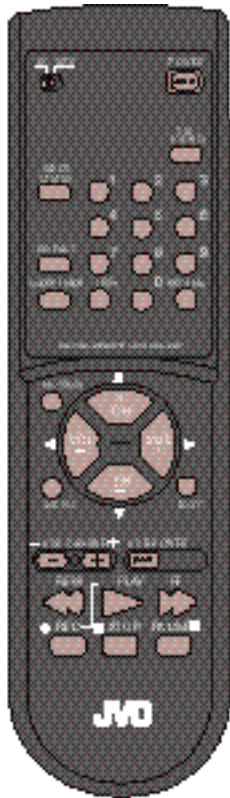


# GETTING STARTED

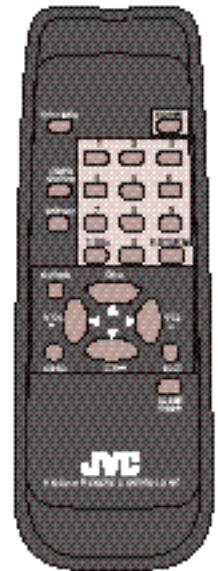
## REMOTE CONTROLS



**RM-C345**  
AV-27020



**RM-C340**  
AV-20020 • AV-20021



**RM-C241**  
C-13010 • C-13011  
C-20010 • AV-27015

### CHANGING THE BATTERIES

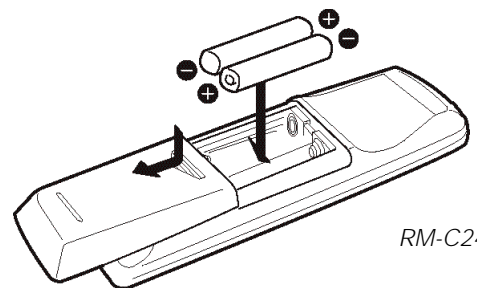
Be sure to use only size AA batteries.

- 1** Push down or raise the latch on the remote's back cover to remove it.
- 2** 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.
- 3** Snap the cover back into place.

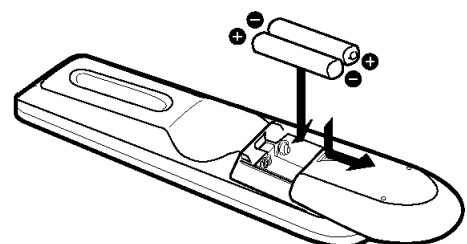
- If the remote control acts erratically, replace the batteries. Typical battery life is usually about six months to one year.
- We recommend alkaline batteries for a longer battery life.

#### RM-C340/RM-C345 USERS NOTE:

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



RM-C241



RM-C340 • RM-C345





## POWER

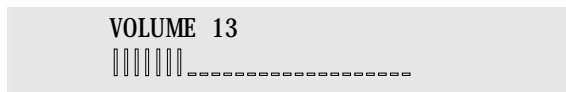
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- Press the POWER button on the remote control or the TV front panel. The power lamp will glow red. (On the AV-27020 and AV-27015 the On Timer lamp will glow red.)
- Make sure that the TV/CATV switch is set to TV (RM-C340 and RM-C345 only). Switch 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 functions with the remote, only the cable box functions!
- To turn the power off, press the POWER button again. The power lamp will go out.
- The On Timer lamp will glow red when the On/Off Timer is set, even when the TV power is off.

## ADJUSTING VOLUME

---

- 1** Use the VOLUME +/- buttons ( ◀▶ ) on the front panel or remote control. Use the VOLUME - ( ◀ ) button to lower the volume. Press the VOLUME + button ( ▶ ) 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, it will scan the channels in order.

- NOTE: After you operate the Auto Tuner Setup (page 13), 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** **Regular Return.**

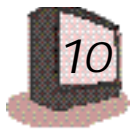
Press and release the RETURN+ button to return to the previous channel. First, select a channel (game #1). Then, select another channel (game #2) with the 10 key pad and push the RETURN+ button to flip directly back and forth.

- 4** **Return+ .**

Press and hold down the RETURN+ button for three seconds. The message, "RETURN CHANNEL PROGRAMMED !" will appear and you can scan as you wish with the CHANNEL +/- button. Press RETURN+ again and you will go back to the Return+ channel you programmed.

To cancel the Return+ channel, press and hold down the RETURN+ button for another three seconds and the message, "RETURN CHANNEL CANCELLED !" appears.

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



# REMOTE PROGRAMMING

## SETTING THE CATV & VCR CODES

Many CATV & VCR 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 or your VCR do not respond to any of the codes listed for the manufacturer and search code function, use the remote control for that accessory to operate it.

### CABLE BOX OR SATELLITE SETUP FOR RM-C340 AND RM-C345

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.

**Note :** If your cable box or satellite box does not respond to any code on the chart, use the Search Codes Function below.

### CATV & Satellite Codes

| CABLE BOXES        | CODES  | CABLE BOXES        | CODES                             | DIGITAL SATELLITE SYSTEMS | CODES         |
|--------------------|--|--------------------|-----------------------------------|---------------------------|---------------|
| ABC                | 024  | Puser              | 032                               | EchoStar                  | 100           |
| Archer             | 032, 025   | RCA                | 061                               | 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           |
| GCBBrand           | 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   | Televue            | 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 simultaneously for more than three seconds, then release.
- 3) Press TV POWER and check if the accessory responds.
- 4) If there was a response, press RETURN+. If there was no response, repeat Step 3 until there is a response. If you repeat Step 3 more than 70 times and there is still no response, use the accessory remote.

## VCR SETUP FOR RM-C340 AND RM-C345

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

- 1) Determine the correct code from the "VCR Codes" chart (below).
  - 2) Slide the 2-Way Mode Selector Switch to TV.
  - 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 VCR.
- When you record a channel, press the PLAY button while continuing to hold down the REC button.

**Note :** If your VCR does not respond to any code on the chart, use the Search Codes Function below.

## VCR Codes

| 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                          |
| 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                          | Optimus     | 028, 021, 035, 064   | SV2000          | 027  |
| Daewoo         | 043, 059, 024                          | 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                          | Tashiro         | 064  |
| Emerson        | 043, 026, 077, 061, 025, 042, 020, 076 | Pentax      | 058, 005, 045  | 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                          | Pioneer     | 023  | Teknika         | 024, 027, 070                                    |
| Go Video       | 037, 051, 049, 050, 089                | Proscan     | 045, 058, 023, 024, 031, 046, 059, 060, 033, 087           | 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                | RCA         | 033, 045, 058, 023, 024, 031, 046, 059, 060, 083, 085, 087 | 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 simultaneously for more than three seconds, then release.
- 3) Press VCR POWER and check if the accessory responds.
- 4) If there was a response, press RETURN+. If there was no response, repeat Step 3 until there is a response. If you repeat Step 3 more than 80 times and there is still no response, use the accessory remote.



# USING THE MENU

## 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
  - Channel Up and Down

- ◀▶ 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
  - Volume Up and Down



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

- 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 item that appears yellow is the selected item.

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

|                  |       |         |
|------------------|-------|---------|
| AUTO TUNER SETUP |       |         |
| CHANNEL SUMMARY  |       |         |
| SET LOCK CODE    |       |         |
| SELECT           | BY ▲▼ | EXIT BY |
| OPERATE          | BY ◀▶ | EXIT    |

## PICTURE SETTINGS

|         |              |         |
|---------|--------------|---------|
| TINT    | -----  ----- |         |
| COLOR   | -----  ----- |         |
| PICTURE | -----  ----- |         |
| BRIGHT  | -----  ----- |         |
| DETAIL  | -----  ----- |         |
| SELECT  | BY ▲▼        | EXIT BY |
| OPERATE | BY ◀▶        | EXIT    |

## PICTURE SETTINGS SCREEN 2

|                  |        |         |
|------------------|--------|---------|
| NOISE MUTING     | ON OFF |         |
| SET VIDEO STATUS |        |         |
| SELECT           | BY ▲▼  | EXIT BY |
| OPERATE          | BY ◀▶  | EXIT    |

## SOUND SETTINGS (Stereo Models Only\*)

|            |                 |         |
|------------|-----------------|---------|
| BASS       | -----  -----    |         |
| TREBLE     | -----  -----    |         |
| BALANCE    | -----  -----    |         |
| MTS        | STEREO SAP MONO |         |
| TV SPEAKER | ON AIR → ON OFF |         |
| SELECT     | BY ▲▼           | EXIT BY |
| OPERATE    | BY ◀▶           | EXIT    |

## GENERAL ITEMS

|                |             |         |
|----------------|-------------|---------|
| SET CLOCK      |             |         |
| ON/OFF TIMER   |             |         |
| LANGUAGE       | ENG FRE SPA |         |
| CLOSED CAPTION |             |         |
| BACKGROUND     | BLACK CLEAR |         |
| SELECT         | BY ▲▼       | EXIT BY |
| OPERATE        | BY ◀▶       | EXIT    |

- If you use the MENU button on the TV's front panel, an additional menu indicating the current channel and the TV/Video status will appear between the last initial setup menu and the picture settings menu.




\*AV-27015 does not have TV Speaker.

# 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 the 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!  
▶▶▶  ▶▶▶  
48




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

-  Press the MENU button
-  To CHANNEL SUMMARY
-  To operate

### ADD

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

| 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

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

**Note:** Some cable systems experience interference from radio frequencies on Cable Channel 95. You can delete this channel from scanning by removing the X.

### NOTES:

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 for scanning in the Channel Summary.

Noise Muting will not work while you operate the Channel Summary.


Continued next page ...








# INITIAL SETUP

Continued ...

## CHANNEL GUARD - LOCK

- ▲▼ To CHANNEL SUMMARY
- ◀▶ To operate
- ▲▼ To the Lock column
-  The access code zero (0) 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:

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

PLEASE ENTER LOCK CODE BY  
10 KEY PAD TO UNLOCK IT.  
NO. ----


To watch a channel you have locked, enter the lock code using the 10 key pad.

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 the MENU button
- ▲▼ To SET LOCK CODE
- ◀▶ To operate



The padlock icon appears



ZERO (the access code is zero)

LOCK CODE      0000  
FINISH

- ◀▶ To choose the number
- ▲▼ To move to the next place
- Continue to follow these directions for all four numbers*
- ▲▼ To FINISH
- ◀▶ To save settings and exit

THANK YOU!!

**Note:** If you forget the Lock Code you can set another one this same way.

**Note:** After a power interruption you must reset the lock code.

## TINT

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



Press the MENU button



To TINT



To accentuate green



To accentuate red



To move to the next or previous

## COLOR

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



Press the MENU button



To COLOR



To make colors more vivid



To subdue colors



To move to the next or previous

## PICTURE

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



Press the MENU button



To PICTURE



To increase contrast



To decrease contrast



To move to the next or previous

## BRIGHT

Adjust the degree of light and dark in the picture.



Press the MENU button



To BRIGHT



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 the MENU button



To DETAIL



To make the picture sharper



To make the picture smoother



To move to the next or previous

## NOISE MUTING

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



Press the MENU button



To NOISE MUTING



To turn ON/OFF

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

## SET VIDEO STATUS

Save Picture Settings as "Choice".



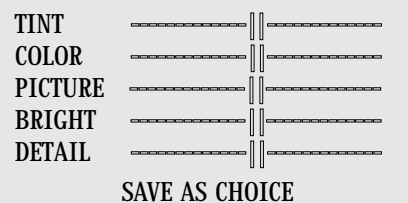
Press the MENU button



To SET VIDEO STATUS



To operate



◀▶ To operate the TINT option

▲▼ To move to the next option

*Repeat the above steps for each setting*

▲▼ To SAVE AS CHOICE

◀▶ To save settings and exit

**Note:** Access your "Choice" settings by pressing the VIDEO STATUS button on the remote control.

### 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.





# SOUND SETTINGS

## NOTES:

### STEREO SETS ONLY!!

Bass, Treble, Balance, and MTS are available on:

- AV-20020
- AV-20021
- AV-27015
- AV-27020

MTS has no effect on normal sound broadcasts.

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

## BASS

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

- Press the 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 the 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 the 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 the MENU button
- To MTS

MTS STEREO SAP MONO  
ON AIR

- 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.

## 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.



## TV SPEAKER

You can listen to the TV speakers, or if your set is connected to a stereo, turn them off to listen to the stereo speakers.



Press the MENU button



To TV SPEAKER

TV SPEAKER      ON    OFF



To turn the speaker ON or OFF



EXIT when finished

**Note:** TV Speaker settings will be cancelled after a power interruption.

**Note:** Before you set TV Speaker from Off to On, **make sure that the TV volume level is low!** If the volume is set too high, the sound will be extremely loud.

## SET CLOCK

The Clock is the heart of all timer functions. You must set the clock before any timer functions will work.



Press the MENU button



To SET CLOCK



To operate

TIME      -- : -- --

START CLOCK



To set the hour (AM/PM)



To move to minutes



To set the minutes



To move to START CLOCK when done with settings



To start the clock

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.*

**Note:** If the TV is unplugged or you experience a power outage, you must reset the clock in order for any of your timer functions to work.

## CLOCK SET MESSAGE

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

PLEASE SET CLOCK FIRST !!

TIME      -- : -- --

START CLOCK

### NOTES:

TV Speaker is only available on:

- AV-20020
- AV-20021
- AV-27020

Set Clock is available on all models.



# GENERAL ITEMS

## NOTES:

**Closed Caption Note:** 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.

**General Note:** You can exit the menu at any time by pressing the Exit button.

## 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 the MENU button



To ON/OFF TIMER



To operate

|              |         |          |
|--------------|---------|----------|
| ON TIME      | 7 : 00  | PM       |
| OFF TIME     | 10 : 00 | PM       |
| CHANNEL      |         | 02       |
| MODE         | ONCE    | EVERYDAY |
| 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

THANK YOU !!

**Note:** In order for ON/OFF Timer to work, the clock must be set. After a power interruption it will be cancelled.

**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 the MENU button



To LANGUAGE

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



To choose a language



EXIT when finished

## CLOSED CAPTION

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



Press the MENU button



To CLOSED CAPTION



To operate

|          |   |                 |
|----------|---|-----------------|
| MODE     | : | CAPTION         |
| CAPTION: |   | CC1 CC2 CC3 CC4 |
| TEXT     | : | T1 T2 T3 T4     |
| FINISH   |   |                 |



To select CAPTION, TEXT or OFF



To CAPTION or TEXT



To select a caption or text channel



To FINISH



To save settings and exit

**Note:** If you wish to view captions or text you must set mode to CAPTION for captions, and TEXT for text.

**Note:** If a black box covers half of the screen, Text Mode is on. Press CC to turn it off.

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

## BACKGROUND

Choose a black or clear menu background.



Press the MENU button



To BACKGROUND

|            |       |       |
|------------|-------|-------|
| BACKGROUND | BLACK | CLEAR |
|------------|-------|-------|



To operate



EXIT when finished

# BUTTON FUNCTIONS



## DISPLAY

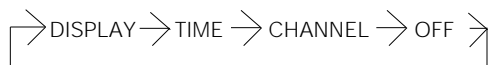
The Display screen shows the current status of timers and inputs.



DISPLAY

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

- The channel or AV input (Channel 07)
- Current time (12:20 PM)
- Sleep Timer status minutes remaining (Off)
- On/Off Timer status (Everyday, on at 7:00 PM, off at 10:00 PM)
- Each press of the DISPLAY button changes the display mode:



## VIDEO STATUS

The VIDEO STATUS button lets you select the "Choice" settings of the Set Video Status menu, or raise the level of detail with "Game", or reset to factory settings.

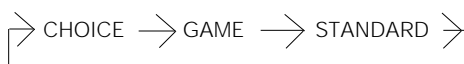
"Standard" resets the picture settings to factory standard levels.

"Choice" consists of the settings that you saved in the Set Video Status menu, page 14.

"Game" enhances video graphics.



VIDEO STATUS

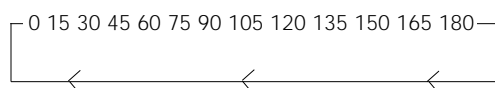


## SLEEP TIMER

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



### 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.

## HYPERSURROUND

RM-C345 ONLY.

Creates a deep, 3-dimensional sound effect by channeling the sound through the TV's front firing speakers. Press the HYPERSURROUND button to turn it on and off.

### NOTES:

Please note that if the clock, SleepTimer, 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.



# BUTTON FUNCTIONS

## NOTES :

RM-C241 does not have VCR buttons.

## NUMBER BUTTONS

### 10 KEY PAD

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

#### To move to Channel 7:



0 (zero)



7 (seven)

### 100 + BUTTON

The 100+ button accesses all channels above Channel 99.

To move to Channel 124:



100+



2 (two)



4 (four)

## MUTING

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



MUTING

The sound will turn off completely.

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

## MENU BUTTON

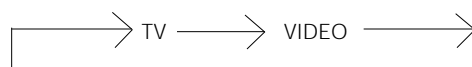
The MENU buttons allow you to access the onscreen menu system. You then use the CHANNEL -/+ and VOLUME -/+ buttons to move throughout the menu.

## TV / VIDEO

TV/VIDEO selects the input mode.



TV/VIDEO



## RETURN+

There are two kinds of Return...

Return+ — Set a "Return Channel" to return to after scanning with CHANNEL -/+.



RETURN+ and hold for 3 seconds

**RETURN CHANNEL PROGRAMMED !**

Scan with CHANNEL -/+



RETURN+

**Note:** To cancel a Return channel, press and hold Return+ for another 3 seconds until "RETURN CHANNEL CANCELLED!" appears.

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



RETURN+

Move to another channel with the 10 key pad.



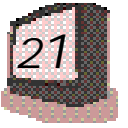
RETURN+

## VCR BUTTONS

RM-C340 and RM-C345 Only. This remote will control your VCR. You can play, rewind and fast-forward, record, pause, stop, channel scan, and power on and off.

**Note:** The remote is preset with the code 000 to control a JVC VCR. For any other brand, you must set up the manufacturer's code (page 11).

# TROUBLESHOOTING



| PROBLEMS  | CHECK  |
|---|--|
| There is no power                                     | <ul style="list-style-type: none"> <li>• See if the power cord became unplugged.</li> <li>• Perhaps you have experienced a blown circuit breaker or fuse or a power outage.</li> </ul>   |
| There is no picture or no sound                       | <ul style="list-style-type: none"> <li>• The antenna could be disconnected.</li> <li>• The input mode (TV or Video) could not be set properly, refer to page 20.</li> <li>• The tuner mode (in the Auto Tuner Setup) could be set improperly, refer to page 13.</li> <li>• The station may be having difficulties, check to see if other channels are operating normally.</li> </ul> |
| Remote control is not operating or operating properly | <ul style="list-style-type: none"> <li>• Check that the batteries are still working and properly installed.</li> <li>• Make sure there are no objects blocking a clear path from the remote to the TV.</li> <li>• Check that the TV/CATV switch is in the proper position (RM-C340 and RM-C345) — set to TV to view television.</li> </ul>   |
| You cannot select a certain channel                   | <ul style="list-style-type: none"> <li>• Maybe you are too far from the TV, you must be within 23 feet (or 7 meters).</li> <li>• Make sure the channels are programmed. See Channel Summary, page 13.</li> <li>• Perhaps the channel is locked, select it with the 10 key pad and follow instructions.</li> </ul>  |
| The power turns off by itself                         | <ul style="list-style-type: none"> <li>• Perhaps the On/Off Timer is set, press the power button, check page 18.</li> <li>• The power was interrupted or the power cord unplugged. Reset the clock, check page 17.</li> <li>• The Sleep Timer may be set.</li> </ul>   |
| The clock is wrong                                    | <ul style="list-style-type: none"> <li>• The power was interrupted and the clock not reset. Reset the clock, check page 17.</li> </ul>   |
| 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>   |
| PICTURE   | CHECK  |
| The picture color quality is poor                     | <ul style="list-style-type: none"> <li>• Tint and color may be improperly adjusted. Check page 15.</li> <li>• Video Status mode may be set to an inappropriate setting. Check page 15.</li> </ul>  |
| There are lines across the picture                    | <ul style="list-style-type: none"> <li>• 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.</li> </ul>   |
| The picture is spotted                                | <ul style="list-style-type: none"> <li>• 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.</li> </ul>  |
| Double picture (Ghosts)                               | <ul style="list-style-type: none"> <li>• A building or airplane can reflect the original signal producing a second, delayed one. Adjust the antenna position.</li> </ul>   |
| Snowy picture/ Image noise                            | <ul style="list-style-type: none"> <li>• 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.</li> </ul>   |
| Screen is 80% black                                   | <ul style="list-style-type: none"> <li>• Closed Caption Text Mode is on. Turn it off in the Closed Caption Menu (page 18).</li> </ul>  |
| SOUND   | CHECK  |
| Bilingual or stereo programs cant be heard            | <ul style="list-style-type: none"> <li>• Make sure the MTS mode is properly set. Refer to page 16 for details on setting MTS Modes.</li> </ul>   |
| There is no sound from the TV speakers                | <ul style="list-style-type: none"> <li>• TV Speakers may be turned off in the menu, see page 17.</li> </ul>  |
| NOT A PROBLEM   | DON'T WORRY ABOUT THIS, IT'S NORMAL  |
| Static electricity                                    | <ul style="list-style-type: none"> <li>• It is normal to feel a surge of static electricity if you brush over 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 emit crackling sounds when turned on or off. Unless the sound or picture become abnormal, this is fine.</li> </ul>   |



# LIMITED WARRANTY



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 TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period as shown below (the "Warranty Period"). The picture tube is covered for two years.

| Model No. | Serial No. | Parts  | Labor  |
|-----------|------------|--------|--------|
|           |            | 1 YEAR | 1 YEAR |

This limited warranty is valid only in the fifty (50) United States, The District of Columbia and the Commonwealth of Puerto Rico.

### JVC WILL:

If this product is found to be defective, repair or replace defective parts at no charge to the original owner. Such repairs will be made during regular business hours only at JVC authorized service centers. All parts repaired or replaced are warranted for the remainder of this Warranty Period only. All products and parts should be brought to an authorized service center on a carry-in basis except for those models with a screen size larger than 25 inches which are covered on an in-home basis.

### YOU MUST:

- Return your products to a JVC authorized service center with a copy of your bill of sale. For the authorized JVC service center nearest you, call toll free (800) 537-5722.
- If service is not locally available, box the product carefully, preferably in its original container, and ship it, insured, to the nearest authorized service center with a copy of the bill of sale and a letter of explanation as to the problem. Call the toll free number above for the address.

### WHAT IS NOT COVERED:

- 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 connected to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, or removed;
- 2) Initial installation, removal for repair, and reinstallation after repair is not covered;
- 3) Operational adjustments covered in the Owner's manual, normal maintenance, video and audio head cleaning;
- 4) Damage that occurs during shipment, due to an act of God, or of consequence to cosmetic changes;
- 5) Signal reception problems and failures due to line power surges;
- 6) Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase;
- 7) Accessories, and;
- 8) Batteries (except for rechargeable batteries which 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 THIS PRODUCT, INCONVENIENCE, LOSS 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 WARRANTY 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 may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary state to state.

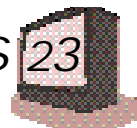
If you have questions concerning your JVC product, please contact our Customer Relations Department:

**JVC COMPANY OF AMERICA** 1700 Valley Road  
 DIVISION OF JVC AMERICAS CORP. 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.



# 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

1500 Lakes Parkway  
Lawrenceville, GA 30243-5857  
(404) 339-2522

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

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

2969 Mapunapuna Place  
Honolulu, HA 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

# S P E C I F I C A T I O N S

| MODEL                             | C-13010<br>C-13011   | C-20010   | AV-20020<br>AV-20021   | AV-27015<br>AV-27020                                  |
|-----------------------------------|--|---|--|---|
| Reception format                  | NTSC System  |   | NTSC, BTSC System (Multi Channel Sound)  |   |
| Reception range                   | VHF 2 to 13. UHF 14 to 69<br>Sub Mid, Super, Hyper and Ultra bands<br>(181 channel frequency synthesizer system) |   |  |   |
| Power consumption                 | 60W / 1.1A   | 87W / 1.4A  | 87W / 1.4A   | 113W / 1.8A   |
| Screen size                       | 13 inch / 34 cm<br>measured diagonally   | 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 x 2   | 1.2W x 2  |
| Speakers                          | 3 1/16 / 8 cm round x 1  | 2 x 3 1/2 / 5 x 9 cm<br>oval x 1                      | 2 x 3 1/2 / 5 x 9 cm<br>oval x 2   | 2 x 3 1/2 / 5 x 9 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             | —  |   | More than 0 to 1550mVrms (+6dBs)<br>Low impedance (400 Hz when modulated 100%) |   |
| Headphone Jack                    | Ø7 mm x 1  |   |  | —   |
| Dimensions (inches)<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.*



**JVC COMPANY OF AMERICA**  
DIVISION OF JVC AMERICAS CORP.  
1700 Valley Road  
Wayne, New Jersey 07470

**JVC CANADA, INC.**  
21 Finchdene Square  
Scarborough, Ontario  
Canada M1X 1A7



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