Dear Customer,

Thank you for purchasing the JVC VHS video cassette recorder. Before use, please read the safety information and precautions to ensure safe use of your new VCR.

CAUTIONS

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE
THIS UNIT TO RAIN OR MOISTURE.

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 HAZARD, DO NOT EXPOSE
THIS UNIT TO RAIN OR MOISTURE.

CAUTION:
This video cassette recorder should be used with AC 120V~, 60Hz only. To prevent electric shocks and fire hazards, DO NOT use any other power source.

CAUTION:
TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF
PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION:
POUR ÉVITER LES CHOCs ÉLECTRIQUES, INTRODUIRE LA
LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE
CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU’AU
FOND.

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.

NOTE:
Change or modifications not approved by the party responsible for compliance could void the user’s authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

Caution on Replaceable lithium battery:
The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate.
Replace battery with CR2032. Panasonic (Matsushita Electric) or Maxell is recommended.

Danger of explosion or Risk of fire if the battery is incorrectly replaced.
- Disposed of used battery promptly.
- Keep away from children.
- Do not disassemble and do not dispose of in fire.

Declaration of Conformity:
Model Number: HR-J692U
Trade Name: JVC
Responsible Party: JVC Americas Corp.
Address: 1700 Valley Road Wayne, N.J. 07470
Telephone Number: 973-317-5000

This device complies with Part 15 of FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Failure to heed the following precautions may result in damage to the VCR, Remote or video cassette.

1. **DO NOT** place the VCR:...in an environment prone to extreme temperatures or humidity. ...in direct sunlight. ...in a dusty environment. ...in an environment where strong magnetic fields are generated. ...on a surface that is unstable or subject to vibration.

2. **DO NOT** block the VCR’s ventilation openings.

3. **DO NOT** place heavy objects on the VCR or on the Remote.

4. **DO NOT** place anything which might spill on the top of the VCR or on the Remote.

5. **AVOID** violent shocks to the VCR during transport.

**For Customer Use:**

Enter below the Model No. and Serial No. which are located on the rear of cabinet. Retain this information for future reference.

Model No. 
Serial No.

---

**VHS SPQB HQ1 Energy Star**

- Cassette marked “VHS” (or “S-VHS”) cannot be used with this video cassette recorder. However, S-VHS recording is not possible with this model.
- This model is equipped with SPQB (S-VHS QUASI PLAYBACK) that makes it possible to play back S-VHS recordings with regular VHS resolution.
- HQ VHS is compatible with existing VHS equipment.
- As an ENERGY STAR® Partner, JVC has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.

**IMPORTANT PRODUCT SAFETY INSTRUCTIONS**

Electrical energy can perform many useful functions. But improper use can result in potential electrical shock or fire hazards. This product has been engineered and manufactured to assure your personal safety. In order not to defeat the built-in safeguards, observe the following basic rules for its installation, use and servicing.

**ATTENTION:**

Follow and obey all warnings and instructions marked on your product and its operating instructions. For your safety, please read all the safety and operating instructions before you operate this product and keep this booklet for future reference.

**INSTALLATION**

1. **Grounding or Polarization**

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

   (B) Your product may be equipped with a 3-wire grounding-type plug (a plug having a third (grounding) pin). This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

2. **Power Sources**

   Operate your product only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. If your product is intended to operate from battery power, or other sources, refer to the operating instructions.

3. **Overloading**

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

4. **Power Cord Protection**

   Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

5. **Ventilation**

   Slots and openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.

   - Do not block the openings by placing the product on a bed, sofa, rug or other similar surface.
   - Do not place the product in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

6. **Wall or Ceiling Mounting**

   The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

**ANTENNA INSTALLATION INSTRUCTIONS**

1. **Outdoor Antenna Grounding**

   If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of an antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

2. **Lightning**

   For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

3. **Power Lines**

   An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

---

**EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70**

![Antenna Grounding Diagram](image-url)
USE

1. Accessories
To avoid personal injury:
• Do not place this product on an unstable cart, stand, tripod, bracket, or table. It may fall, causing serious injury to a child or adult, and serious damage to the product.
• Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product.
• Use a mounting accessory recommended by the manufacturer and follow the manufacturer’s instructions for any mounting of the product.
• Do not try to roll a cart with small casters across thresholds or deep-pile carpets.

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

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

4. Object and Liquid Entry
Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

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

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

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

SERVICING

1. Servicing
If your product is not operating correctly or exhibits a marked change in performance and you are unable to restore normal operation by following the detailed procedure in its operating instructions, do not attempt to service it yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

2. Damage Requiring Service
Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. When the power supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into the product.

c. If the product has been exposed to rain or water.

d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e. If the product has been dropped or damaged in any way.

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

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

How to use the Remote
Before use, insert the lithium battery — CR2032 — correctly, with the plus(+) side up into the battery compartment. To open it, press the release tab and carefully, pull the compartment out. The Remote can operate most of your VCR’s functions, as well as basic functions of JVC TVs.

• Point the Remote towards the remote sensor on the target component. The maximum operating distance is about 8 m.

• To operate a JVC TV, use any of the following buttons: TV POWER, TV INPUT, TV CH+/- or TV VOL +/-.

Video heads cleaning
The heads get dirty in the following cases:
• in an environment prone to extreme temperature or humidity.
• in a dusty environment
• flaw, dirt or mold on video tapes
• continuous usage for a long time

Use a dry cleaning cassette — TCL-2 — when:
• Rough, poor picture appears while a tape is played back.
• The picture is unclear or no picture appears.
• “USE CLEANING CASSETTE” appears on the screen (only with “SUPERIMPOSE” set to “ON” [pg. 12]).

ATTENTION:

TO MOBILE PHONE USERS:
Using a mobile phone in the vicinity of the VCR may cause picture vibration on the TV screen or change the screen to a blue back display.

ON PLACING THE VCR:
Some TVs generate strong magnetic fields.
• Make sure to place the VCR at least 20 cm (7 or 8 inch) away from a TV.
• DO NOT place the VCR close to a TV as it may cause noise, picture disturbance or malfunctions (power off, etc.) to occur.
Buttons, Connectors and Indicators

Front Panel

- Cassette loading slot
- Infrared beam receiving window
- VIDEO/AUDIO input connectors
- Timer mode indicator
- Power button
- PLAY button
- STOP/EJECT button
- PAUSE button
- FF button
- REW button
- Record indicator
- Play indicator
- Channel and auxiliary input/Clock timer

Display panel

- VCR mode indicator
- 18:00 PM

Rear Panel

- AC power cord
- ANT. IN
- AUDIO/VIDEO OUT
- TV OUT
On-screen display

If you press OSD (OK) on the Remote when “SUPERIMPOSE” is set to “ON” (pg. 12), you can see the current VCR status on the TV screen. Press OSD (OK) again to exit on-screen display. The indications are not recorded even if the VCR is in the recording mode.

Connections and Plug&Play Setting

1. Check contents
Make sure the package contains all of the accessories listed in “Specifications” (pg. 14).

2. Situate VCR
Place the VCR on a stable, horizontal surface.

3. Connect VCR to TV

RF Connection
1. Disconnect the TV antenna from the TV.
2. Connect the TV antenna cable to the ANT. IN terminal on the rear of the VCR.
3. Connect the supplied RF cable between the TV OUT terminal on the rear of the VCR and the TV's antenna input terminal.

AV Connection
(Improves picture quality during tape playback.)
If your TV is equipped with audio/video input connectors
1. Connect the antenna, VCR and TV as shown in the illustration.
2. Connect an audio/video cable between the AUDIO/VIDEO OUT connectors on the rear of the VCR and the audio/video input connectors on the TV.
   • Even if you are using audio/video cables to connect your VCR to your TV, you must also connect it using the RF cable. This will ensure that you can record one show while watching another.

Antenna or cable

* Depending on type of matching transformer, it can not be connected to ANT. IN terminal when connecting Audio/Video cable to AUDIO/VIDEO OUT connectors.
- Connections and Plug & Play Setting -

4 Perform Plug & Play setup

Plug the AC power cord into an AC outlet. Do not turn on the VCR. The clock and tuner channels will be set automatically. The time and date can be set automatically by the clock setting data transmitted from one of the regular TV broadcast channels. We call this TV channel the "host channel" and it is a PBS channel in your area.

ATTENTION:

If you use a cable box, Plug & Play will not function; set the clock and tuner channels separately (see pg. 6-7).

During Initial Auto Clock Set

"Aut" blinks.

During Auto Channel Set

The channel numbers are displayed as they are scanned and set.

During VCR Channel Set

Channel No. "3" blinks.

During VCR Channel Set

Channel No. "3" blinks.

Press POWER to turn on the VCR.

Press CH UP/DOWN on the Remote to select CH "3", "4" or "-" (Off), then press OK.

If "-" appears on the display panel, ensure that the antenna cable is connected correctly. If Plug & Play setting is not performed though the antenna cable is connected correctly, perform "Manual Clock Set" (see pg. 7) and "Auto Channel Set" (see pg. 7) or "Manual Channel Set" (see pg. 7).

Plug & Play Completed

The received channel number is displayed.

To check the time, press the DISPLAY button on the Remote or turn off the VCR.

What to do if Plug & Play setting failed

● If an incorrect time is displayed on the display panel, perform the "Semi Auto Clock Set" (see pg. 6) or "Manual Clock Set" (see pg. 7) procedure.

● If "-" appears on the display panel, ensure that the antenna cable is connected correctly. If Plug & Play setting is not performed though the antenna cable is connected correctly, perform "Manual Clock Set" (see pg. 7) and "Auto Channel Set" (see pg. 7) or "Manual Channel Set" (see pg. 7).

Set VCR channel

The VCR channel is the channel on which you can watch the picture from the VCR on the TV only when using the RF connection. To reset the VCR channel, perform the following steps:

1) Press POWER to turn off the VCR, then press STOP/EJECT.

2) Press CH UP/DOWN on the Remote to select "CH3", "CH4" or "CH-" (Off), then press OK.

● The VCR channel is preset to "CH3". Set to "CH4" if "CH3" is used for broadcasting in your area.

The VCR channel will be reset to "CH3" after a power failure occurs.

Final preparation for use

Turn on the TV. Select the VCR channel 3 or 4 (or AV mode) on the TV. You can now perform basic playback or basic recording.

● If you connect the TV and the VCR only using the RF connection (see pg. 5), press TV/VCR on the Remote so that the VCR mode indicator lights on the display panel.

Initial Settings

Language Setting

The default setting is "ENGLISH".

1) Access Main Menu screen, then Initial Set screen

Press MENU on the Remote. Press \ to move the highlight bar (arrow) to "INITIAL SET", then press OK or \.

2) Select language

This VCR offers you the language choice to view menus and some messages — in English, Spanish or French. Press \ to move the highlight bar (arrow) to "LANGUAGE", then press OK or \ repeatedly until the desired language is selected.

Press MENU to return to normal screen.

Language selection will be reset to "English" after a power failure occurs.

Clock Setting

Perform clock setting only if the clock has not been set correctly by the Plug & Play setting or if you use a cable box.

Access Main Menu screen, then Initial Set screen

Turn on the VCR and TV, and select the VCR channel (or AV mode).

Access Main Menu screen, then Initial Set screen

Press MENU on the Remote. Press \ to move the highlight bar (arrow) to "INITIAL SET", then press OK or \.

Access Clock Set screen

Press \ to move the highlight bar (arrow) to "CLOCK SET", then press OK or \.

Setting clock semiautomatically

Semiauto Clock Set

You can change the host channel/D.S.T. (Daylight Saving Time) time zone setting manually. First follow steps 1 to 3 in "Preparations" above, then go to the following steps.

NOTE:

● The time set previously will be erased when "AUTO CLOCK", "HOST CH", "D.S.T." or "TIME ZONE" setting is changed.

Set Auto Clock to ON

Press OK or \ on the Remote repeatedly to move the highlight bar to "AUTO CLOCK", then press \ so that "ON" is selected.

CONTINUED ON NEXT PAGE
**Initial Settings**

2 Select host channel
You can either select “AUTO” or enter a PBS channel number.
Press OK or to move the highlight bar to “HOST CH”, then press repeatedly until “AUTO” or the desired PBS channel number is selected.

3 Select D.S.T. mode
Press OK or to move the highlight bar to “D.S.T.”, then press repeatedly until the desired setting is selected.
- Select if you want to adjust your VCR’s clock automatically by the incoming signal from the host channel. (Auto Daylight Saving Time enables automatic adjustment of the VCR’s clock at the start and end of Daylight Saving Time.) Be sure to select the correct time zone manually in step 4.
- ON: Adjustment will be made by the built-in clock itself.
- OFF: Select when Daylight Saving Time does not apply to you.

4 Select time zone
Press OK or to move the highlight bar to “TIME ZONE”, then press repeatedly until “AUTO” or the desired time zone is selected.
Each time you press the button, the time zone changes as follows:
- AUTO
- ATLANTIC
- EASTERN
- CENTRAL
- MOUNTAIN
- PACIFIC
- ALASKA
- HAWAII
- (back to the beginning)

5 Complete Semiauto Clock Set
Press MENU to return to normal screen. Turn off the VCR. “Auto” will appear on the display panel while the clock is being set. The current clock time will appear automatically when the clock setting is complete.

Selections of host channel, D.S.T. mode and time zone will be reset to “AUTO” after a power failure occurs.

**Setting clock manually**

- Manual Clock Set
First follow steps 1 to 2 in “Preparations” (see pg. 6), then go to the following steps.

1 Set time, date and year
Press to the desired time appears, then press OK or . Set the date and year in the same way.
- Holding changes the time in 30-minute intervals, or changes the date in 15-day intervals.

2 Select D.S.T. mode
Press OK or to move the highlight bar to “D.S.T.”, then press to select the desired setting.
- ON: Adjustment will be made by the built-in clock itself.
- OFF: Select when Daylight Saving Time does not apply to you.

3 Start clock
Press MENU and normal screen appears.

To make corrections any time during the process
Press OK or repeatedly until the item you want to change blinks, then press .

The clock set manually will be lost after a power failure occurs.

---

**Tuner Setting**

Turn on the VCR and TV, and select the VCR channel (or AV mode).

**Setting channels automatically**

- Auto Channel Set
Perform Auto Channel Set only if channels have not been set correctly by the Plug & Play setting.

1 Access Main Menu screen, then Tuner Set screen
Press MENU on the Remote. Press to move the highlight bar (arrow) to “TUNER SET”, then press OK or .

2 Perform Auto Channel Set
Press to move the highlight bar (arrow) to “AUTO CHANNEL SET”, then press OK or . The VCR selects the correct band (TV or CATV) automatically during Auto Channel Set.
- When Auto Channel Set is complete, “SCAN COMPLETED” appears on screen.
- If the scan was unsuccessful, “SCAN COMPLETED—NO SIGNAL” appears on screen. Check the connections and start again.
Press MENU to return to normal screen.

**Setting channels manually**

- Manual Channel Set
You can add the channels you want or delete the channels you do not want manually.

1 Access Main Menu screen, then Tuner Set screen
Press MENU on the Remote. Press to move the highlight bar (arrow) to “TUNER SET”, then press OK or .

2 Access Manual Channel Set screen
Press to move the highlight bar (arrow) to “MANUAL CHANNEL SET”, then press OK or .

3 Add or skip desired channels
To add channels
- Press the Number keys on the Remote to input a channel number you want to add.
- Press OK or to set to “ADD”.
- Repeat steps to add other channels.
- Press MENU to return to normal screen.
To skip channels
- Press or the Number keys to select a channel number you want to skip.
- Press OK or to set to “SKIP”.
- Repeat steps to skip other channels. Press MENU to return to normal screen.

After a power failure occurs, band selection will be reset to “CATV”.

---
Playback

Basic Playback

Turn on the VCR and TV, and select the VCR channel (or AV mode).

1. Load a cassette

Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is pointing towards the VCR.

- Do not apply too much pressure when inserting.
- The VCR turns on, and the counter on the on-screen display is reset, automatically.
- If the cassette’s record safety tab has been removed, playback begins automatically.

2. Start playback

Press PLAY ▶.

When the tape is not running

Rewind/fast-forward

Press REW (◄) or FF (►) repeatedly.

Eject the tape

Press STOP/EJECT ■ / △ on the VCR.

You can also eject the cassette when the VCR is turned off.

Turn off the VCR

Press POWER (PWR).

Playback Features

Turn on the VCR and TV, and select the VCR channel (or AV mode).

Adjusting tracking condition

— Tracking Adjustment

Automatic tracking adjustment

Whenever you insert a tape and start playback, automatic tracking starts working and continuously analyzes the signal to enable optimum picture quality during playback.

Manual tracking adjustment

If automatic tracking cannot eliminate noises well during playback, follow the procedures below.

On the Remote

2. Press CH △/▽ to eliminate the noises. Press it briefly for a fine adjustment, or press and hold for a coarse adjustment.
   - Press SP/EP again to reactivate automatic tracking.

Selecting monitor sound

— Audio Monitor

While playing back a tape on which stereo sound or SAP sound is recorded, press A. MONITOR on the Remote. Each time you press the button, sound changes.

HI-FI: Normally select this. HI-FI sound is played back.
HI-FI L: Sound on the left Hi-Fi channel is played back.
HI-FI R: Sound on the right Hi-Fi channel is played back.
NORM: Sound on the normal track is played back.
NORM HI-FI: Both sounds on the HI-FI track and normal track are mixed and played back.

NOTE:

The above indication appears when “SUPERIMPOSE” is set to “ON” (see pg. 12), though the monitor sound changes in sequence.

Automatic operations after rewinding

— Next Function Memory

The Next Function Memory “tells” the VCR what to do after rewinding is complete. Ensure that the VCR is in stop mode.

CONTINUED ON NEXT PAGE
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The Instant Review function will also operate if the VCR is

- For Automatic Power Off
  Press [REW [ ] ] on the Remote, then press POWER within 2 seconds.

- For Automatic Timer Standby
  Press [REW [ ] ] on the Remote, then press TIMER within 2 seconds.

**NOTE:**
It is not possible to select the Automatic Timer Standby function if
the cassette's record safety tab is removed.

**Playing back tape repeatedly (100 times)**

--- Repeat Play

During playback, press and hold PLAY [►] for more than
5 seconds. The play indicator (►) on the display panel starts
blinking slowly. To stop playback, press STOP [■] on the Remote
or STOP/EJECT [■/●] on the VCR.

--- Index Search

**Locating beginning of recordings**

When recording on this VCR, index codes are placed on the tape
at the beginning of each recording.

1. While the tape is not running, press [REW [ ] ] or [FF [ ] ] on the
   Remote to start search.

2. To access a recording of 2 to 9 index codes away, press [REW [ ] ] or [FF [ ] ]
   repeatedly until the correct number is displayed on the screen (only if
   "SUPERIMPOSE" is set to "ON"
   (PG. 12)). Playback begins automatically when the desired
   recording is located.

--- Repeat Play

You can select tape speed in the stop mode or during recording

--- Index Search

You can select channel in the stop mode,
recording pause mode or during rewind/fast-
forward.

**NOTES:**
- You can select channel in the stop mode,
  recording pause mode or during rewind/fast-
  forward.
- During recording pause mode, you can select
  channel only by pressing FF[CH+] or REW[CH–].
- If you connect the TV and the VCR only using the
  RF connection (PG. 5), press TV/VCR on the
  Remote so that the VCR mode indicator lights on
  the display panel, to view the program to be
  recorded.

--- Set tape speed

Press SP/EP on the Remote. The selected tape speed will appear
on the TV screen and the VCR display panel.

**NOTE:**
- You can select tape speed in the stop mode or during recording
  pause mode.

--- Start recording

On the VCR, press REC [●]. Or on the Remote, while holding REC
[●], press PLAY [►].

**During recording**

--- Pause recording

Press PAUSE [■].
- Press PLAY [►] to resume recording.
- You can select channel in the recording pause mode.

--- Stop recording

Press STOP [■] on the Remote. OR Press STOP/EJECT [■/●] on the VCR.

**NOTE:**
- If the tape reaches its end during recording, the recording stops
  and "○ " and "► " on the front display panel blink. Press STOP/EJECT [■/●]
  on the VCR to eject the tape or press REW [ ] to
  rewind the tape.

CONTINUED ON NEXT PAGE
**Recording Features**

**Recording Features**

**Turn on the VCR and TV, and select the VCR channel (or AV mode).**

**Specifying recording length**

**Instant Timer Recording (ITR)**

During recording, press REC on the VCR repeatedly until the recording length you want appears on the display panel. The record indicator (■) on the display panel starts blinking.

- Each time you press the button, recording length increases in 30-minute intervals (up to 6 hours).
- The VCR shuts off after recording is finished.
- If you are using the AV connection (p. 5) to view pictures from the VCR, change the TV's input mode from AV to TV.
- To cancel an ITR, press TIMER/STOP/EJECT (■) on the VCR.

**Watching one program while recording another**

During recording...

- If you connect the TV and the VCR only using the RF connection (p. 5) to view pictures from the VCR, press TV/VCR on the Remote so that VCR mode indicator goes off from the display panel. (The TV broadcast being recorded stops and disappears.)
- If you are using the AV connection (p. 5) to view pictures from the VCR, change the TV's input mode from AV to TV. Then, select the channel you want to watch, on the TV.

**Second Audio Recording**

This VCR's built-in MTS decoder enables reception of Multichannel TV Sound broadcast. To record a SAP program received, set "2ND AUDIO RECORD" to "ON" (p. 13).

---

**Timer Recording**

Up to 8 timer recording programs can be made using express timer programing method as far as a year in advance. Remember, the clock must be set before you can program the timer.

**Turn on the VCR and TV, and select the VCR channel (or AV mode).**

**NOTES:**

- If all the 8 programs have already been set, "PROGRAM FULL" appears on the TV screen.
- After timer recording is completed, the VCR turns off automatically.
- You can program the timer recording while a regular recording is in progress; the menu screens will not be recorded.
- Even if a power failure occurs, the VCR keeps your timer programs. However, the clock time, channel settings, and other menu settings are lost. As a result, when the power is supplied again to this VCR after the power failure, this VCR starts the Plug&Play setting automatically to restore the clock time and channel setting. If the clock time and channel setting are restored correctly, each timer program you have made will start at its start time unless its end time has elapsed.
- If the tape reaches its end during timer recording, the recording stops and ■ ” and “■” on the display panel blink. Press TIMER to disengage timer, then press STOP/EJECT (■) on the VCR to eject the cassette or press POWER (■) then press REV (■) to rewind the tape.

**Express Timer Programing**

Load a cassette with the record safety tab intact. The VCR turns on, and the counter is reset, automatically.

1. Press PROG. on the Remote to access the Program screen.
2. Press START (■) (Number key “1” and/or “4”), STOP (■) (Number key “2” and/or “5”), DATE (■) (Number key “3” and/or “6”) or CH (■) repeatedly to enter the start time, stop time, date, or channel.
3. Press和 hold START (■) or STOP (■) to increase the time in 30-minute intervals.
4. To set the tape speed, press SP/EP.
5. To timer-record daily (Monday–Friday) or weekly serials, press DAILY (M-F) (Number key “8”) or WEEKLY (Number key “9”). Pressing the button again makes the “DAILY” or “WEEKLY” display disappear.

3. Press OK or PROG. if “PROGRAM NOT COMPLETED PROGRAM OVERLAP” appears, see “Program overlap warning display” (p. 11).

4. Press TIMER. The VCR turns off automatically and “■” is displayed on the display panel.

CONTINUED ON NEXT PAGE
– Timer Recording –

To use the VCR while it is in timer recording standby mode

Press TIMER, then press POWER. After you use the VCR, press TIMER again to put the VCR into timer recording standby mode.

Checking, canceling or changing program settings

1. Disengage timer
Press TIMER, then press POWER.
• When “AUTO TIMER” is set to “ON” (pg. 12), you do not have to press TIMER.

2. Access Program Check screen
Press PROG. CHECK.

3. Access Program screen
Press PROG. CHECK again. Each time you press PROG. CHECK, the next program’s Program screen appears.

4. Cancel or change program setting
To cancel a program, press CANCEL when the Program screen you do not want is shown. To change a program, press the appropriate button: START 1/8 (Number key “1” and/or “8”), STOP 1/8 (Number key “1” and/or “8”), DATE 1/8 (Number key “3” and/or “6”), CH 1/8 (Number key “8”), DAILY (M-F) (Number key “8”), WEEKLY (Number key “9”) and/or SP/EP when the Program screen on which you want to make changes is shown.

5. Return to normal screen
Press PROG. CHECK repeatedly until no Program screen is shown.

6. Reengage timer recording standby mode
Press TIMER. The VCR turns off automatically and “Θ” is displayed on the display panel.
• When “AUTO TIMER” is set to “ON” (pg. 12), the timer recording standby mode automatically resumes when you turn off the VCR.

During a power failure, the program settings listed in Program Check Screen will be reset.

Program overlap warning display

If “PROGRAM NOT COMPLETED PROGRAM OVERLAP” appears, you have another program overlapping the program you have just made. The Program Check screen appears and conflicting programs will start blinking.

Example:
Program 1 (you have just made) and Program 4 overlap each other

1. Select program to modify
Press  △, then press OK or ．
• You can only select one of the overlapping programs.
• If you do not mind this overlap, press PROG. to finish the timer program setting. The Program starting earlier or program with the lower program number will be recorded.

2. Cancel or change program setting
To cancel a program, press CANCEL when the Program screen you do not want is shown.
To change a program, press the appropriate button: START 1/8 (Number key “1” and/or “4”), STOP 1/8 (Number key “2” and/or “5”), DATE 1/8 (Number key “3” and/or “6”), CH 1/8, DAILY (M-F) (Number key “8”), WEEKLY (Number key “9”) and/or SP/EP when the Program screen on which you want to make changes is shown, then press OK or ．
• If the overlap is not yet solved, the conflicting programs will start blinking. Repeat the above steps again.
Other Functions

Checking tape position
When you change the VCR operation mode from the stop mode to fast forward or rewind mode, or when you perform an Index Search or Instant Review, the tape position indicator appears. The position of “F” in relation to “B” (Beginning) or “E” (End) shows you where you are on the tape.

● Set “SUPERIMPOSE” to “ON” (pg. 12).

Changing display information
Each time you press DISPLAY, the display panel shows the channel number and the clock time alternatively.

● You can change display in the stop, recording or during rewind/fast-forward.

● When “SUPERIMPOSE” is set to “ON” (pg. 12) and DISPLAY on the Remote is pressed, time counter will appear on the TV screen. To reset the time counter, press C. RESET on the Remote.

Timer warning display
A warning appears on the TV screen to tell you that the timer-recording is to start in 5 minutes if you are not in the timer recording standby mode at that time. Press TIMER to put the VCR into timer recording standby mode. To clear the display, press CANCEL on the Remote.

Function settings
You can use the other useful function settings on the Function Set screen.

1 Access Main Menu screen, then Function Set screen
Press MENU on the Remote. Press △▽ to move the highlight bar (arrow) to “FUNCTION SET”, then press OK or ▶.

2 Select Function
Press △▽ to move the highlight bar (arrow) to the function you want to set.

3 Change setting
Press OK or ▶. The default setting is bold in the following table. Press MENU to return to normal screen.

After a power failure occurs, Function Settings will be reset to its default setting.

PICTURE CONTROL — NORM/EDIT/SOFT/SHARP
This function helps you to adjust the playback picture quality according to your preference.

NORM: Normally select this. Original picture appears and the VCR does not perform any picture adjustments.
EDIT: Minimizes picture degradation during editing (recording and playback).
SOFT: Reduces image coarseness when viewing overplayed tapes containing much noise.
SHARP: Clearer, sharper-edged picture when viewing images with much flat, same-colored surfaces such as cartoons.

NOTE: Select “EDIT” when you are editing tapes. After you finish editing the tapes, select back to the mode of your choice.

AUTO TIMER — ON/OFF
● When this function is set to “ON”:
The timer recording standby mode is automatically engaged when the VCR is turned off. It is temporarily canceled when the VCR is turned on. You do not have to press TIMER to engage or disengage the timer recording standby mode.
● When this function is set to “OFF”:
You have to press TIMER to engage or disengage the timer recording standby mode.

SUPERIMPOSE — ON/OFF
When this function is set to “ON”, various VCR status information (on-screen display) appears on the screen.

NOTE: When you use this VCR as the playback VCR for editing a tape, be sure to set this function to “OFF”; otherwise, the VCR status information (on-screen display) will be recorded on the edited tape.

AUTO SP→EP TIMER — ON/OFF
When this function is set to “ON”, the VCR automatically switches to EP mode to allow complete recording if there is not enough tape to record the entire program while timer-recording in SP mode.

For Example, Recording a program of 140 minutes in length onto a 120-minute tape

<table>
<thead>
<tr>
<th>SP mode</th>
<th>EP mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approximately 110 minutes</td>
<td>Approximately 30 minutes</td>
</tr>
</tbody>
</table>

NOTES:
● If you have programed the VCR to timer-record 2 or more programs, do not use this function, but change the tape speed manually during timer programing.
● There may be some noise and sound disturbance where the tape speed switches from SP to EP mode on the tape.
● This function is not available during ITR (Instant Timer Recording), and will not work properly on the following tapes: TIST-30, TIST-60, TIST-90, and TIST-120.

CONTINUED ON NEXT PAGE
Other Functions

VIDEO STABILIZER — ON/OFF
When this function is set to “ON”, you can automatically correct vertical vibrations in the picture when playing back unstable recordings made on another VCR.

NOTE:
To watch recordings with close-caption or when you finish viewing a tape, set this function to “OFF”.

BLUE BACK — ON/OFF
When this function is set to “ON”, the TV screen becomes all blue in the following cases:
● When receiving a channel not in use.
● When stopping playback.

NOTE:
When you want to receive an unstable channel with poor signals, set this function to “OFF”.

2ND AUDIO RECORD — ON/OFF
● When this function is set to “ON”:
If a SAP program is received, the SAP audio is recorded on both the normal and Hi-Fi tracks. The main audio is not recorded. If a non-SAP program is received, the main audio is recorded on both the Hi-Fi and normal tracks.
● When this function is set to “OFF”, the SAP audio cannot be recorded.

NOTES:
When the channel is changed on the VCR;
● The “STEREO” indication appears on the screen for about 5 seconds if the program is a stereo broadcast.
● The “SAP” indication appears on the screen for about 5 seconds if the program is a SAP broadcast.
● Both indications appear when a stereo program is accompanied by SAP sound.

AUDIO MONITOR — HI-FI/HI-FI L/HI-FI R/NORM/MIX
This VCR can record two sound tracks simultaneously (normal and Hi-Fi) on a Hi-Fi stereo tape. You can select the sound track(s) to listen to while playing back a Hi-Fi stereo tape. In addition, when playing back a prerecorded tape containing two separate audio programs on the Hi-Fi tracks, you can choose either one by selecting either “HI-FI L” or “HI-FI R”.

HI-FI: Normally select this. Hi-Fi sound is played back.
HI-FI L: Sound on the left Hi-Fi channel is played back.
HI-FI R: Sound on the right Hi-Fi channel is played back.
NORM: Sound on the normal track is played back.
MIX: Both sounds on the Hi-Fi track and normal track are mixed and played back.

NOTES:
● While playing back a monaural tape, sounds on the normal track will be heard regardless of this setting.
● If RF connection is used for viewing pictures on the TV, sound will be monaural even though you select “HI-FI”.
● You can also use the A. MONITOR button on the Remote to select the desired monitor sound (pg. 8).

Editing
You can use your VCR as the playback or recording VCR. You can use a camcorder as the playback VCR and your VCR as the recording VCR. Refer also to the other components’ instruction manuals for connection and its operations.

1 Make connections
Example: When using this VCR as the playback VCR

- This VCR (for playback)
- Another VCR (for recording)

• When using this VCR as the recording VCR, connect this VCR’s audio/video input connectors to the audio/video output connectors on the other VCR. If the playback VCR is monaural, connect the audio output connector on the playback VCR to the left audio input connector on this VCR.

2 Load cassettes
Insert the playback cassette into the playback VCR and the cassette to be recorded on into the recording VCR.

3 Select input mode on recording VCR
Select the correct external input on the recording VCR. On this VCR (when using this VCR as the recording VCR): Select “F-1” — when connecting the other VCR to the audio/video input connectors on the front panel. Press AUX or CH Δ/∨ on the Remote. You can select the input mode also by pressing PAUSE[CH], and then FF[CH+] or REW[CH–] on the VCR. See step 2 in “Basic Recording” (pg. 9).

4 Select edit mode
Set the edit mode to “ON” for the VCRs if such a mode is equipped.
● On this VCR, set “PICTURE CONTROL” to “EDIT” (pg. 12).

5 Start playback
Press PLAY on the playback VCR.

6 Start recording
Press REC on the recording VCR.
Specifications

**GENERAL**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power requirement</td>
<td>AC 120 V~/~, 60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td></td>
</tr>
<tr>
<td>Power on</td>
<td>13 W</td>
</tr>
<tr>
<td>Power off</td>
<td>1.5 W</td>
</tr>
<tr>
<td>Temperature</td>
<td></td>
</tr>
<tr>
<td>Operating</td>
<td>5°C to 40°C (41°F to 104°F)</td>
</tr>
<tr>
<td>Storage</td>
<td>–20°C to 60°C (–4°F to 140°F)</td>
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<tr>
<td>Operating position</td>
<td>Horizontal only</td>
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<tr>
<td>Dimensions (W x H x D)</td>
<td>435 mm x 94 mm x 248 mm (17-3/16” x 3-3/4” x 9-3/4”)</td>
</tr>
<tr>
<td>Weight</td>
<td>2.7 kg (5.9 lbs)</td>
</tr>
<tr>
<td>Format</td>
<td>VHS NTSC standard</td>
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<tr>
<td>Maximum recording time</td>
<td></td>
</tr>
<tr>
<td>SP</td>
<td>210 min. with ST-210 video cassette</td>
</tr>
<tr>
<td>EP</td>
<td>630 min. with ST-210 video cassette</td>
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</table>

**VIDEO/AUDIO**

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<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal system</td>
<td>NTSC-type color signal and EIA monochrome signal, 525 lines/60 fields</td>
</tr>
<tr>
<td>Recording/Playback system</td>
<td>DA-4 (Double Azimuth) head helical scan system</td>
</tr>
<tr>
<td>Signal-to-noise ratio</td>
<td>45 dB</td>
</tr>
<tr>
<td>Horizontal resolution</td>
<td>230 lines</td>
</tr>
<tr>
<td>Frequency range</td>
<td></td>
</tr>
<tr>
<td>Normal audio</td>
<td>70 Hz to 10,000 Hz</td>
</tr>
<tr>
<td>Hi-Fi audio</td>
<td>20 Hz to 20,000 Hz</td>
</tr>
<tr>
<td>Input/Output</td>
<td>RCA connectors (IN x 1, OUT x 1)</td>
</tr>
</tbody>
</table>

**TUNER**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuning system</td>
<td>Frequency-synthesized tuner</td>
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<tr>
<td>Channel coverage</td>
<td></td>
</tr>
<tr>
<td>VHF</td>
<td>Channels 2–13</td>
</tr>
<tr>
<td>UHF</td>
<td>Channels 14–69</td>
</tr>
<tr>
<td>CATV</td>
<td>113 Channels</td>
</tr>
<tr>
<td>RF output</td>
<td>Channel 3, 4 or – (off) (preset to Channel 3 when shipped) 75 ohms, unbalanced</td>
</tr>
</tbody>
</table>

**TIMER**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clock reference</td>
<td>Quartz</td>
</tr>
<tr>
<td>Program capacity</td>
<td>1-year programmable timer/8 programs</td>
</tr>
</tbody>
</table>

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Provided accessories</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF cable (F-type)</td>
<td></td>
</tr>
<tr>
<td>Infrared remote control unit</td>
<td></td>
</tr>
<tr>
<td>Lithium battery –CR2032</td>
<td></td>
</tr>
</tbody>
</table>

Specifications shown are for SP mode unless specified otherwise. E. & O.E. Design and specifications subject to change without notice.
WARRANTY (Only in U.S.A.)

JVC COMPANY OF AMERICA warrants this Video Cassette Recorder 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 the original retail purchase for the period shown below. ("The Warranty Period")

<table>
<thead>
<tr>
<th>LABOR</th>
<th>PARTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 DAYS</td>
<td>90 DAYS</td>
</tr>
</tbody>
</table>

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

WHAT WE WILL DO:
If this product is found to be defective within the warranty period, JVC will, at its option, either repair or replace the defective part(s) or replace the product with a new or refurbished functionally equivalent product. Within 90 days from date of retail sale, repair or replacement will be at no charge.

WHAT YOU MUST DO FOR WARRANTY SERVICE:
Please do not return your product to the retailer. Instead, please box the product carefully, preferably in the original carton, and ship, insured to the JVC repair/replacement facility nearest you.

To obtain the address of the location nearest you, please call (800) 537-5722 or visit our website http://www.jvc.com.

A COPY OF YOUR BILL OF SALE, A COMPLETED WARRANTY REPAIR/REPLACEMENT FORM AND ALL OF THE ORIGINAL ACCESSORIES WHICH CAME WITH YOUR UNIT MUST ACCOMPANY THE PRODUCT TO BE ELIGIBLE FOR REPAIR/REPLACEMENT UNDER WARRANTY.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department at (800) 252-5722.

WHAT IS EXCLUDED:
The warranty 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, including head cleaning.
4. Damage that occurs in shipment, due to act of God, and cosmetic damage.
5. Signal reception problems and failures due to line power surge.
6. Products used for commercial purposes (including but not limited to rental).
7. Accessories.
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase).

There are no express warranties except as listed above.

AFTER THE WARRANTY:
Please contact JVC's Customer Relations Department at (800) 252-5722 to obtain the cost of out of warranty repair or replacement.

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 ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE, OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPE, 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 an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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1700 Valley Road
Wayne, New Jersey 07470
http://www.jvc.com

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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:______________________
WARRANTY REPAIR / REPLACEMENT FORM

PLEASE COMPLETE THE FOLLOWING:

PLEASE NOTE: P.O. BOXES ARE NOT ACCEPTABLE

NAME: ________________________________________________________

STREET ADDRESS: ______________________________________________

CITY: ___________ STATE ___________ ZIPCODE ______________

DAY TIME PHONE NUMBER: _______________________________________

____________________________________________________________________________________

REASON FOR RETURN __________________________________________

__________________________________________

__________________________________________

Please do not return your product to the retailer. Instead, please box the product carefully, preferably in the original carton, and ship, insured to the JVC repair/replacement facility nearest you.

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FOR SERVICING (Only in U.S.A.)

HOW TO LOCATE YOUR JVC SERVICE CENTER

TOLL FREE: 1-800-537-5722

http://www.jvc.com

Dear Customer,

In order to receive the most satisfaction from your purchase, please read the instruction booklet before operating the unit. In the event that repair is necessary, or for the address nearest your location within the Continental United States, please call 1-800-537-5722 for your nearest authorized servicer or visit our website at www.JVC.com. Remember to retain your Bill of Sale for Warranty Service.

— JVC

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JVC SERVICE & ENGINEERING COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
10 New Maple Avenue
Pine Brook, NJ 07058-9641

To purchase accessories for your JVC product, you may contact your local JVC Dealer. From the 48 Continental United States call toll free: 1-800-882-2345 or on the web at www.JVC.com

ACCESSORIES

Don’t service the product yourself.

CAUTION

To prevent electrical shock, do not open the cabinet. There are no user serviceable parts inside. Please refer to qualified service personnel for repairs.