

DVD/CD PLAYER Hi-Fi STEREO VIDEO CASSETTE RECORDER USER'S GUIDE

**VHS SQPB** *4 HEAD* **19µm HEAD** 

For model: HR-XVC1U

Hi-Fi



| 123  |  |
|------|--|
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|      |  |
|      |  |
| 0000 |  |
|      |  |
|      |  |



## 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.



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

- **CAUTION:** 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.
- CAUTION: Changes or modifications not expressly approved by the partly responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

### CAUTION:

THIS DIGITAL VIDEO PLAYER EMPLOYS A LASER SYSTEM.

TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS USER'S GUIDE CAREFULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT A JVC AUTHORIZED SERVICE CENTER.

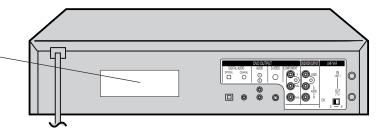
USE OF CONTROLS, ADJUSTMENTS OR THE PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

TO PREVENT DIRECT EXPOSURE TO LASER BEAM, DO NOT TRY TO OPEN THE ENCLOSURE. VISIBLE LASER RADIATION MAY BE PRESENT WHEN THE ENCLOSURE IS OPENED. DO NOT STARE INTO BEAM.

### Location of the required Marking

The rating sheet and the safety caution are on the rear of the unit.

CERTIFICATION: COMPLIES WITH ~ FDA RADIATION PERFORMANCE STANDARDS, 21 CFR SUBCHAPTER J.



# **IMPORTANT SAFEGUARDS**

## **1. READ INSTRUCTIONS**

All the safety and operating instructions should be read before the unit is operated.

## 2. RETAIN INSTRUCTIONS

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

### 3. HEED WARNINGS

All warnings on the unit and in the operating instructions should be adhered to.

## 4. FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

### 5. CLEANING

Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning the exterior cabinet only.

### 6. ATTACHMENTS

The manufacturer of this unit does not make any recommendations for attachments, as they may cause hazards.

## 7. WATER AND MOISTURE

Do not use this unit near water. For example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

## 8. ACCESSORIES

Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury, and serious damage to the unit. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



S3125A

### 9. VENTILATION

Slots and openings in the cabinet back or bottom are provided for ventilation, to ensure reliable operation of the unit, and to protect it from overheating.

These openings must not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat source. This unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and/or the manufacturer's instructions have been adhered to.

## **10. POWER SOURCES**

This unit should be operated only from the type of power source indicated on the rating plate. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For units intended to operate from battery power, or other sources, refer to the operating instructions.

## **11. GROUNDING OR POLARIZATION**

This unit is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug, if your unit is equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a ground-ing-type power outlet. This too, 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 into the outlet, the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

## **12. 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 appliance.

# IMPORTANT SAFEGUARDS

## 13. LIGHTNING

To protect your unit from 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 unit due to lightning and power line surges.

# 14. 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.

### 15. OVERLOADING

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

## 16. OBJECT AND LIQUID ENTRY

Do not push objects through any openings in this unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

## 17. OUTDOOR ANTENNA GROUNDING

If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code, ANSI/NFPA 70, 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 to grounding electrodes, and requirements for the grounding electrode.

### 18. SERVICING

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

### **19. DAMAGE REQUIRING SERVICE**

Unplug this unit 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 unit.
- c. If the unit has been exposed to rain or water.
- d. If the unit 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 unit to its normal operation.
- e. If the unit has been dropped or the cabinet has been damaged.
- f . When the unit exhibits a distinct change in performance, this indicates a need for service.

## 20. REPLACEMENT PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part.

Unauthorized substitutions may result in fire, electric shock or other hazards.

## 21. SAFETY CHECK

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

## 22. HEAT

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

## 23. DISC TRAY

Keep your fingers away from the disc tray as it is closing. It may cause serious personal injury.

### 24. CONNECTING

When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause an electric shock and serious personal injury. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.

## 25. LASER BEAM

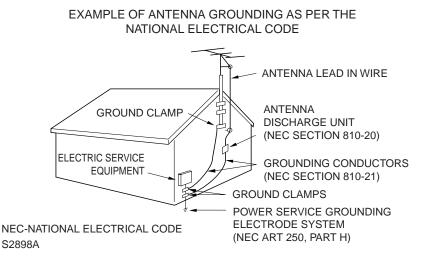
Do not look into the opening of the disc tray or ventilation opening of the product to see the source of the laser beam. It may cause sight damage.

### 26. DISC

Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

## 27. 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.



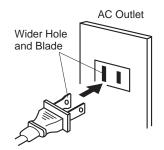
## CONDENSATION

Moisture will form in the operating section of the DVD/VCR if the player is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. And when this happens, DVD/VCR's performance will be impaired.

To prevent this, let the DVD/VCR stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.

Condensation may also form during the summer if the DVD/VCR is exposed to the breeze from an air conditioner. In such cases, change the location of the DVD/VCR.

# **Power Source**



Polarized AC Cord Plug (One blade is wider than the other.)

## TO USE AC POWER SOURCE

Use the AC polarized line cord provided for operation on AC. Insert the AC cord plug into a standard 120V 60Hz polarized AC outlet.

### NOTES:

- Never connect the AC line cord plug to other than the specified voltage (120V 60Hz). Use the attached power cord only.
- If the polarized AC cord does not fit into a non-polarized AC outlet, do not attempt to file or cut the blade. It is the user's responsibility to have an electrician replace the obsolete outlet.
- If you cause a static discharge when touching the unit and the unit fails to function, simply unplug the unit from the AC outlet and plug it back in. The unit should return to normal operation.

# **Features**

## **DVD/CD Player/Video Cassette Recorder**

- DVD/CD player with Video Cassette Recorder Unique space saving design combines a DVD/CD player and a Hi-Fi Video cassette recorder. The DVD disc has much more capacity, but is the same size as the audio CD disc. Picture quality is higher than Super VHS. Audio quality is higher than audio CD. The DVD PLAYER can play back video CDs and audio CDs.
- High Quality Picture More than 500 lines(VCR mode: 230 lines) of Horizontal Resolution. It exceeds Super VHS (400 lines) or Laser Disc (430 lines) in resolution.

### VCR Section

- Stereo/SAP Reception This VCR is designed to receive stereo and separate audio program (SAP) broadcasts where available.
- SQPB Tapes recorded in the S-VHS system can be played back simply on this VCR.
- 4 Video Heads Provides optimal picture quality for special effects playback.
- **19µm HEAD** For superior picture quality even in EP mode, 19micron width technology helps to avoid crosstalk and boost EP picture quality to near SP levels. With precision technology, ghosts and color beats are virtually eliminated.
- Hi-Fi Stereo Sound With a frequency response of 20 to 20,000 Hz and a dynamic range of better than 90dB, this VCR provides a level of excellence that rivals compact discs.
- Instant Timer Recording (ITR) Simply by pressing the REC and PLAY buttons, the VCR can be programmed for up to 5 hours of recording with an immediate start.
- Skip Search When the SKIP SEARCH button is pressed during playback, the VCR will automatically search forward in 30 seconds increments to a maximum of 3 minutes with each press of the SKIP SEARCH button, and then return to normal playback.

### **DVD Section**

- Compatible with a wide range of DVD audio outputs
  - Digital Audio Jack (Optical or Coaxial):
    When a component with a built-in Dolby Digital decoder is connected, Dolby Digital sound can produce the effect of being in a movie theater or a concert hall.
  - Surround standard different from Dolby Digital. This format is already in use in many theaters. By connecting this unit to a DTS decoder or an AV amplifier with a built-in DTS decoder, the DTS audio of DVD discs recorded in this format can be enjoyed. However, audio will not be output from the analog audio output jacks.
  - The MPEG audio of DVD discs recorded in this format can be enjoyed.
  - The Linear PCM sound of a 48 kHz/16 bit through 96 kHz/20 bit exceeds audio CD sound.
- Surround audio This DVD equipped with a "SPATIALIZER N-2-2". It can produce the effect of being in a cinema or a concert hall.
- Multi-Language Since this DVD matches with 124 language-subtitles/-soundtracks, you can enjoy selecting a favorite one. (You can not select the language that is not recorded on the disc.)
- Multi-Angle Pictures of Sports or a Live Concert are recorded with many cameras. When you play such a disc, you can change the angles during playback. (If a Multi-Angle is not recorded on the disc, you can not change the angle.)
- Repeat Playback You can repeat chapter, track, title, sides or material between two selected points.
- Program/Random Playback (CD) You can play back tracks in programmed or random-selected sequences.
- Zoom You can zoom in on the selected subject on the screen during playback.
- Video Aspect Ratio You can change the aspect ratio of the screen for your monitor/television on a suitable disc.
- Parental Control You can limit the playback of scenes or sounds of adult DVD discs which have a parental level rating.
- \* This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation or other rights owners and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation or other rights owners. Reverse engineering or disassembly is prohibited.
- \* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. © 1992-1997 Dolby Laboratories, Inc. All rights reserved.
- \* "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.
- \* Certain audio features of this product manufactured under license from Desper Products, Inc. Spatializer and the circle - in - square device are trademarks owned by Desper Products, Inc.
- \* Unauthorized recording of copyrighted television programs, films, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws.

# Before using your unit

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|--|
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# **Advanced Function of DVD section**

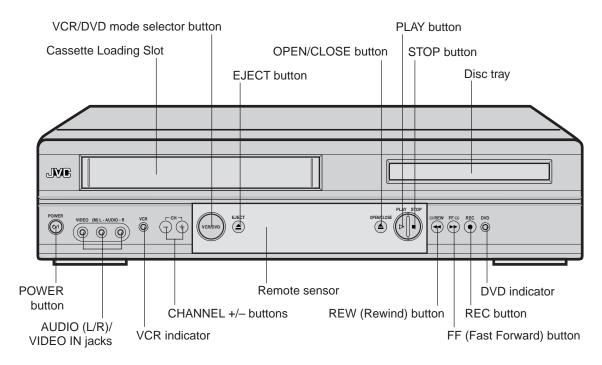
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# **Additional information**

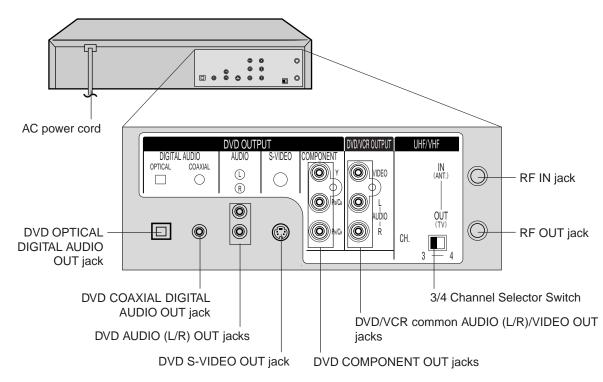
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# Parts and functions

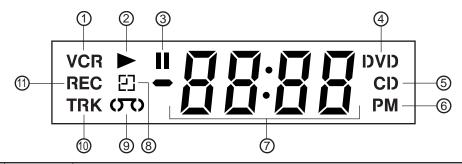
# Front



## Rear



### **Display window**



| No.        | Display | Description   |  |
|------------|---------|---|--|
| 1          | VCR     | VCR mode  |  |
| 2          |         | Playback (lights) / Auto resume (flashes)                               |  |
| 3          |         | Still picture   |  |
| 4          | DVD     | DVD disc is inserted.   |  |
| 5          | CD      | CD is inserted.   |  |
| 6          | PM      | Display for afternoon (lights out in the morning)                       |  |
|            | 10 : 00 | Clock display (colon[ : ] flashes)                                      |  |
|            | 01:00   | Counter display by hour/minute at VCR/DVD / by minute/second at CD      |  |
| $\bigcirc$ | 2       | Track number display for CD   |  |
|            | CH02    | TV channel display for VCR  |  |
|            | C036    | CATV channel display  |  |
|            | L       | External input display  |  |
| 8          | 23      | Timer recording display   |  |
| 9          | ന       | Video tape is in the unit   |  |
| 10         | TRK     | Track display for CD  |  |
| (1)        | REC     | Normal recording display (flashes during Instant Timer Recording - ITR) |  |

## **Explanation for On-Screen-Symbol:**

- Playback
- Stop
- Still picture
- II► Frame advanced playback
- Forward slowmotion
- Fast Forward playback
- Review playback
- Skip chapter to forward direction

- Skip chapter to reverse direction
- Open or Close the tray
- Auto resume
- ▲ ▲ ▼ Direction button's mark
- A-B A-B repeat
  - .... Subtitle language
  - Soundtrack language
  - Angle

- Q Zoom
  - Parental level locked
- Parental level unlocked
- Screen size: Normal TV
- Screen size: PAN SCAN
- Screen size: WIDE
- Shows Prohibited act
- **↓:** Output sound for Video-CD

### Note:

Some discs may be displayed wrong or e.g. chapter number, playback time, etc. may not be displayed.

# **Remote control**



# JVC TV Remote Control

This Remote can control some functions (TV POWER, NUMBER(0-9), INPUT, TV VOL +/-, TV CH +/- and ENTER) of a remote controllable JVC TV by slide TV/VCR/DVD switch to TV.

(The POWER button on the upper right is not effective for the TV.)

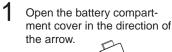
## NOTE:

- It's not possible to operate a unit not equipped with a remote sensor.
- This Remote can control a JVC TV only.
- When you operate the VCR or DVD, the **TV/VCR/DVD** switch must be slided to VCR/DVD again. Otherwise the DVD/ VCR may not operate properly.
- Since this unit is combined type of DVD and VCR, the remote code of DVD is individual. So please note that the DVDkeys on the RCU of the other JVC RECEIVER/TV is not effective for this unit.

|                   |  | Page   |
|-------------------|--|--------|
| TV/VCR/DVD switch | Switch to operate TV or VCR or DVD                     | 18,36  |
| POWER             | Power on/off   | 18     |
| DVD MENU          | Display menu of DVD software                           | 45     |
| MARKER            | Locating desired scene                                 | 43     |
| RETURN            | Remove DVD set up menu                                 | 36,47  |
| OPEN/CLOSE        | Open or Close the tray                                 | 37     |
| DISPLAY           | Change the front Display mode                          | 27     |
| A.TRK             | Digital AUTO TRACKING                                  | 26     |
| SUB TITLE         | Set Subtitle of a DVD disc                             | 44     |
| C. RESET          | Reset the counter to 00:00                             | 27     |
| ANGLE             | Change playback angle of a DVD disc                    | 45     |
| ZERO RETURN       | Stop the tape when the counter reaches 00:0            | 0 27   |
| SEARCH MODE       | Index for DVD  | 39     |
| SP/EP             | Sets the tape speed for recording                      | 28,30  |
| PLAY MODE         | Select playback mode                                   | 40,41  |
| ZOOM              | Zoom (DVD/VCD)   | 39     |
| TITLE             | Select title of a DVD disc                             | 45     |
| REPEAT A-B        | Repeat playback between A and B (DVD/CI                | 0) 40  |
| 0-9               | Direct channel selection of TV                         | 20,28  |
|                   | Input setting  | 39,41  |
|                   | Enter a password                                       | 46,47  |
| TIMER             | Set the unit to start recording at a preset time.      | 31,32  |
| TV/VCR            | Switches between TV and VCR                            | 18,29  |
| TV POWER          | Turn the connected TV on or off                        | 10     |
| INPUT             | Switch the connected TV to external mode               | 10     |
| TV VOL +/-        | Adjust the connected TV's volume                       | 10     |
| REW               | Rewind/Review playback 25                              | ,26,38 |
| PLAY              | Playback   | 25,37  |
| FF                | Fast Forward/Forward search playback 25                | ,26,38 |
| REC               | Recording 28   | ,30,34 |
| STOP              | Stop   | 25,37  |
| PAUSE             | Still picture/Recording pause on/off 26,29             | ,34,38 |
| SKIP 🝽/ 🍽         | Skip chapter to forward or reverse direction           | 38     |
| INDEX 🝽 / 🖬       | Search for the INDEX mark of a tape                    | 27     |
| TV/VCR CH +/-     | Select channel of the connected TV or VCF              | २      |
|                   | 10,28  | ,30,34 |
| ▲ / ▼             | Cursor buttons   |        |
| SET -/+           | Setting buttons  | 31,32  |
|                   | Manual tracking buttons in playback mode               | 26     |
| ◀/►               | Cursor buttons - To move Up in the VCR m               |        |
|                   | you press the ►. To move Down in the VC                | ĸ      |
|                   | menu you press the ◀.<br>Enter information in the menu |        |
| ENTER             |  |        |
| SELECT            | Select option in the menu                              | 10 50  |
| SET UP MENU       | Display menu of setup 18,19,36                         |        |
| CANCEL            | Delete Timer program                                   | 32     |
| 000               |  | ,39,41 |
|                   | Display VCR or DVD operation status                    | 29,52  |
| A.MONITOR         | Switches sound between mono and stereo                 | 33     |
| <u>81.01W</u>     | Change sound track language of DVD                     | 44     |
| SLOW              | Slowmotion playback                                    | 26,38  |
| SKIP SEARCH       | Skip the unwanted short material of a tape             | 26     |

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## **Inserting Batteries**





2 Install two "AA" batteries (supplied), paying attention to the polarity diagram in the battery compartment.



Replace the compartment cover.

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## **Battery precautions**

The precautions below should be followed when using batteries in this device:

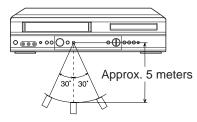
- 1. Use only the size and type of batteries specified.
- 2. Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment.
- Reversed batteries may cause damage to the device. To avoid a potential short circuit, insert the "–" end first. 3. Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.
- Bo not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) of old batteries with nesh ones.
   If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
- 5. Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions.)

## **Remote control basics**

- Press **POWER** to turn the DVD/VCR on or off.
- Make sure TV/VCR/DVD switch is set to VCR/DVD.
- Tap VCR CH + or VCR CH to move through the channels one channel at a time.
- The VCR CH +/- and SET +/- are also used to navigate on-screen menu system.
- You can directly access specific channels using Number keys pad.
- Each press of VCR or DVD, switches the screen between the VCR screen (VCR mode) and the DVD screen (DVD mode).

# Operation

- Aim the remote control at the remote sensor and press control buttons to operate.
- Operate the remote control within 30° angle on either side of the remote sensor, up to a distance of Approx. 5 meters.



## Change the custom code for remote control

If you operate this DVD/VCR with another JVC's VCR simultaneously arranging them side by side, the both recorders will react to this remote control. In this case, you can change the remote control and DVD/VCR to other frequency ("  $\frac{1}{1}$  "). Then you can operate only this DVD/VCR with this changed remote control. When you purchased, the DVD/VCR and remote control have been set to the frequency-"  $\frac{1}{1}$  ".

Example: Change frequency to L

## Remote control:

While holding VCR, press 2(code: b) of Number keys. (in case of code: A, press 1)



# DVD/VCR:

In the POWER off mode, press and hold **PLAY** for more than 5 seconds. "b" will appear on the display and then disappear after approx. 4 seconds.



# NOTES:

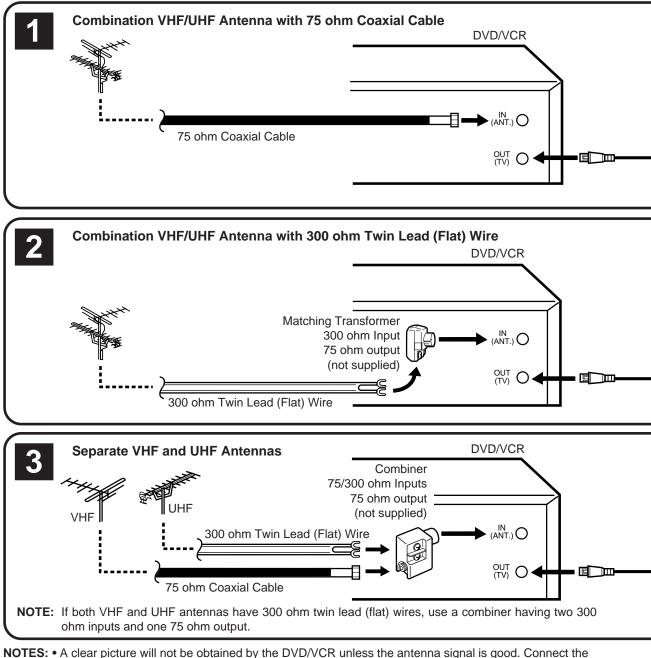
- If the remote control has been set to b, the DVD/VCR also must be set to b. Otherwise, the DVD/VCR can not be operated with this remote control.
- To reset to "A", repeat above procedure. However press 1 instead of 2.

# **Basic connections**

If you are using an antenna system, follow these instructions. If you are a cable (CATV) subscriber, skip ahead to page 14 for the proper connections.

# ANTENNA TO DVD/VCR CONNECTION

The DVD/VCR must be connected "between" the antenna and the TV. First, disconnect the antenna from the TV and connect it to the DVD/VCR. Then connect the DVD/VCR to the TV. Below are 3 common methods of connecting an antenna system to a DVD/VCR. Find the type of antenna system you are using and follow the connection diagram.



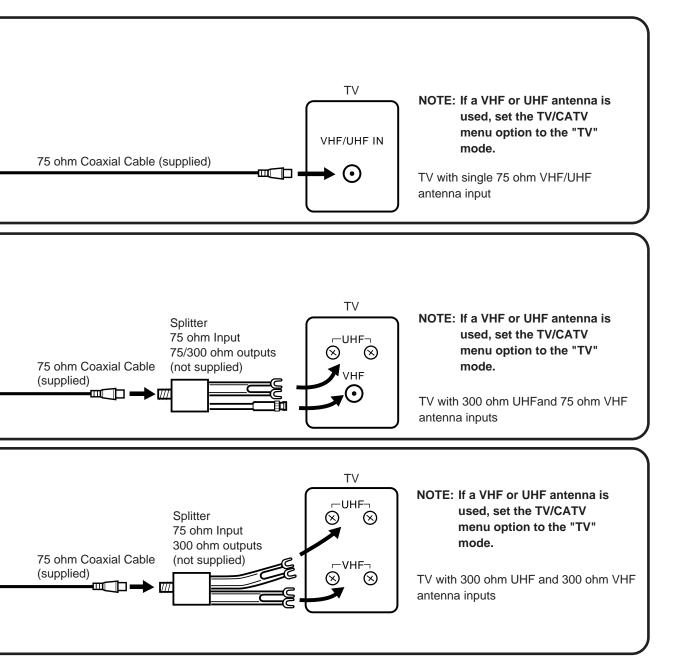
antenna to the DVD/VCR properly.

- For better quality recording, an indoor antenna or a telescopic antenna is not recommended. The use of an outdoor type antenna is required.
- If you are not sure about the connection, please refer to qualified service personnel.

# DVD/VCR TO TV CONNECTION

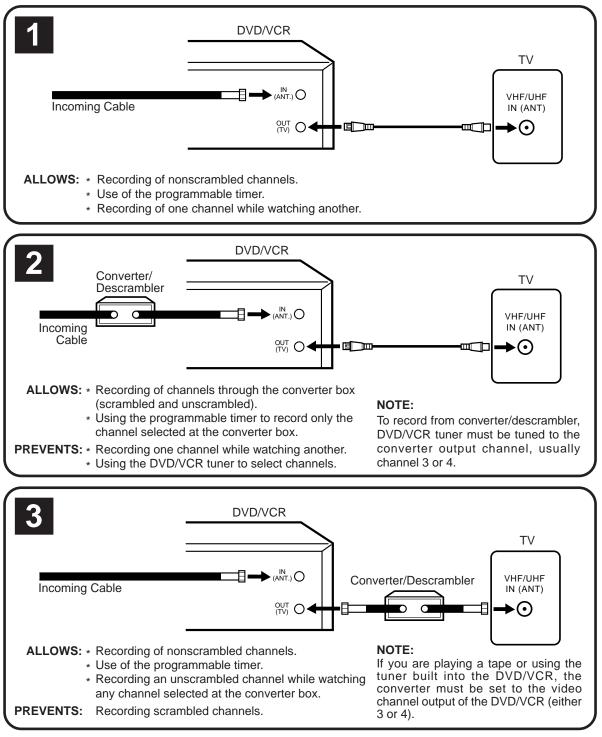
After you have connected the antenna to the DVD/VCR, you must connect the DVD/VCR to the TV. Below are 3 common methods of connecting your DVD/VCR to a TV. Find the type of TV you are using and follow the connection diagram.

This DVD/VCR has a single 75 ohm output for connection to a TV. If your TV has separate VHF and UHF antenna inputs (numbers 2 and 3 below), use a splitter to connect the DVD/VCR to the TV for VHF and UHF reception.



# CATV (CABLE TV) connections

**Many cable companies** offer services permitting reception of extra channels including pay or subscription channels. This DVD/VCR has an extended tuning range and can be tuned to most cable channels without using a cable company supplied converter box, except for those channels which are intentionally scrambled. If you subscribe to a special channel which is scrambled, you must have a descrambler box for proper reception.

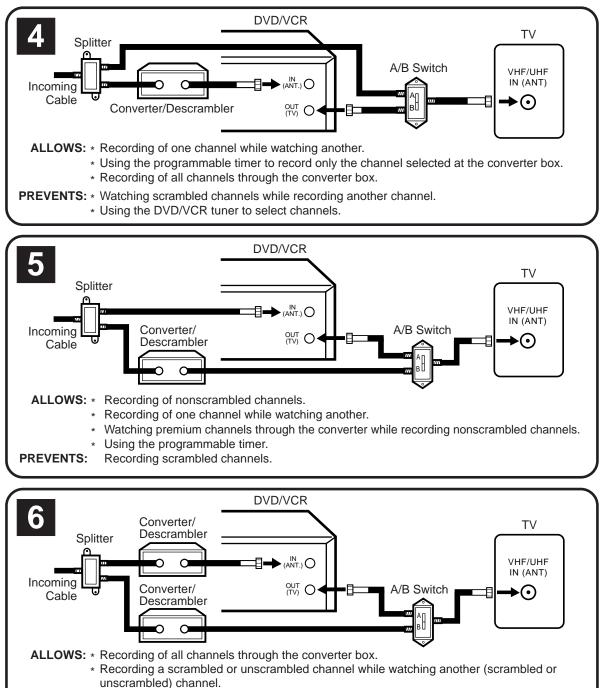


**NOTE:** Whenever a Converter/Descrambler box is placed before the DVD/VCR, you must tune the DVD/VCR to the output of the Converter/Descrambler box, usually channel 3 or 4.

# CATV (CABLE TV) connections

### IMPORTANT: Make sure the TV/CATV menu option is set to the "CATV" mode.

This DVD/VCR cannot receive scrambled programs since it does not contain a descrambler. In order to receive scrambled programs, your existing descrambler must be used. Descrambler boxes are available from cable companies. Consult your local cable company for more information concerning connection to their descrambler equipment. There are many ways to connect your DVD/VCR to a cable system. Below are six common methods of connection.



\* Using the programmable timer to record only the channel selected at the converter box.

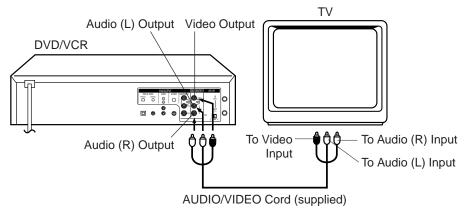
**PREVENTS:** Using the DVD/VCR tuner to select channels.

# **Playback Connection**

The exact arrangement you use to interconnect various video and audio components to the DVD/VCR is dependent on the model and features of each component. Check the Owner's Manual provided with each component for the location of video and audio inputs and outputs.

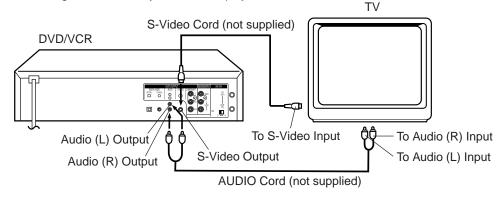
# Connect to a TV with Audio/Video Output

Use the supplied AUDIO/VIDEO Cord.

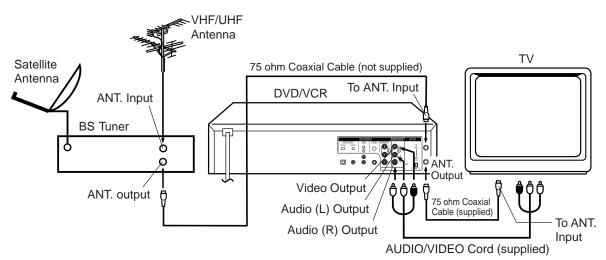


## Connect to a TV with S-Video Output

You can use the following connection only for DVD/CD playback.

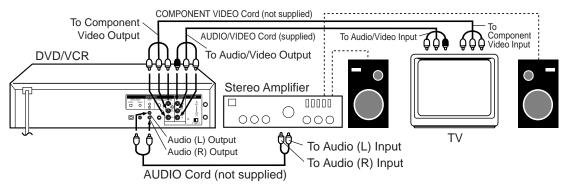


# Connect to a BS TUNER



## Connect to a Stereo Amplifier with Audio Output

If your TV has a COMPONENT VIDEO IN jack, you can connect the DVD/VCR to the TV with a COMPONENT cable (not supplied) as shown below. COMPONENT VIDEO output jack can send higher-quality video signal to a TV than S-Video output.

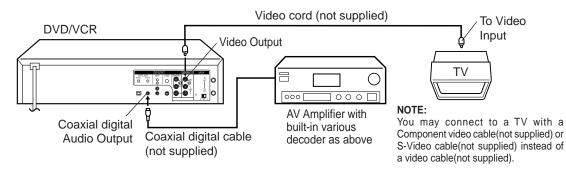


## Connect to an AV Amplifier with built-in digital surround

If you are using an Amplifier with a built-in digital surround as follows, you can enjoy the various audio systems such as Dolby Digital and DTS by using the Optical or Coaxial Digital Output.

#### Use this connection to connect an:

- AV amplifier with built-in \*Dolby Digital decoder
- AV amplifier with built-in \*DTS decoder



## Connecting the optical digital cable

# You may connect to an AV Amplifier with an Optical digital cable (not supplied) instead of a Coaxial digital cable.

When you connect the optical digital cable (not supplied), remove the dust protection cap from the rear panel. When not using the optical digital cable, attach the dust protection cap to protect against dust.

### NOTES:

- The OPTICAL, COAXIAL, AUDIO L/R, S-VIDEO and COMPONENT jacks are useful only for DVD section. The VHS signal is output only from the composite jack(DVD/VCR VIDEO OUTPUT) and UHF/VHF OUT.
- When you make the connections above, do not set DOLBY DIGITAL to DOLBY DIGITAL or DTS to ON on the AV Amplifier. If you do, a loud noise will suddenly come out from the speakers, affecting your ears or causing the speakers to be damaged.
- Caution for the **optical** digital audio output connector: Do not connect to an amplifier (with an optical digital input connector) which does not contain a Dolby Digital or DTS decoder. Otherwise, any attempt to play DVDs may cause such a high level of noise that it may be harmful to your ears and damage your speakers.
- DTS audio will be output only from the COAXIAL or OPTICAL output. To hear DTS audio, DTS-Decoder is necessary.
- When playing DTS-encoded CDs, only noise will be heard from the speakers or analogue stereo outputs.
- Some DTS decoders which do not support DVD-DTS interface may not work properly with the unit.

# Setting the Video Channel / Setting the language

# **Setting the Video Channel**

To view playback of a recorded tape, or to watch a program selected by the VCR's channel selector, the TV must be set to channel 3 or 4 (video channel).



## NOTES:

- If the unit does not operate properly, or No key operation (by the unit and/ or the remote control): Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.
- If no buttons are pressed for more than 60 seconds,the MENU screen will return to normal TV operation automatically.
- Both the VCR and the DVD have their own menu options (See page 36).

When a TV is connected with the 75 ohm coaxial cable only.

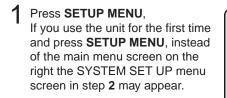
- Press **POWER** to turn on the DVD/VCR.
- 2 Slide **TV/VCR/DVD** switch to VCR/DVD. Then press **VCR** to select the VCR mode. The VCR indicator on the front panel will light.
- 3 Set the 3/4 Channel selector switch on the rear panel to CH 3 or 4.
- 4 Turn ON the TV and set to CH 3 or 4 to correspond with the channel selected in step **3**.
- Press **TV/VCR** to select the VCR position. The VCR indicator will appear in the display.
- 6 Select any channel to receive a TV station in your area. The channel number will appear on the screen for about 4 seconds.

## For a push-button TV tuner

If CH 3 or 4 corresponding to the video channel cannot be tuned on your TV, proceed as follows: set the VCR 3/4 channel selector and the TV to CH 3 or 4, play back a prerecorded tape and tune the TV to receive a sharp color picture from the video cassette recorder. Refer to your TV owner's manual for details.

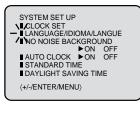
# Setting the language

You can choose from three different languages (English, French and Spanish) for the on-screen displays.



- Press ◀ or ▶ to select the "LANGUAGE" option, then press ENTER.
- 3 Press ◀ or ► to select the desired language: English (ENGLISH), Spanish (ESPAÑOL) or French (FRANCAIS), then press ENTER.

MENU TIMER REC SET AUTO REPEAT SAP ON ► OFF SAP ON ► OFF SAP ON ► OFF SAP (+//ENTER/MENU)

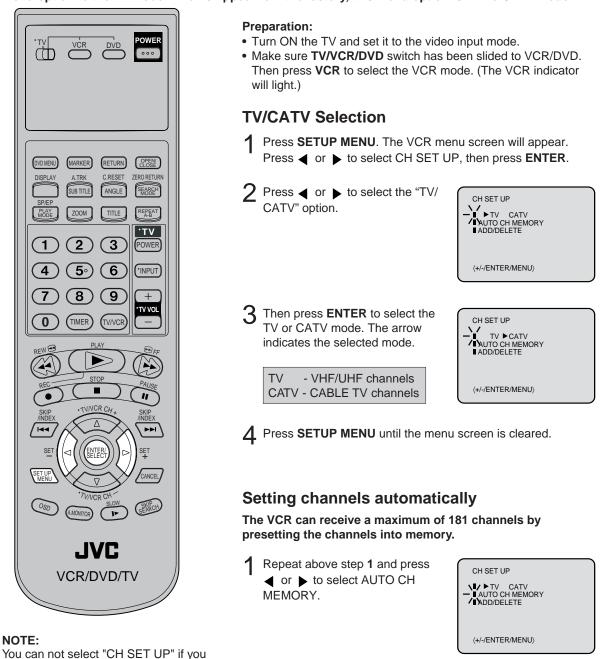


- LANGUAGE/IDIOMA/LANGUE
  - ►ENGLISH ESPAÑOL
  - FRANCAIS
- (+/-/ENTER/MENU)

Press SETUP MENU until the MENU screen is cleared.

# **Tuner Setting**

This DVD/VCR is equipped with a channel memory feature which allows channels to skip up or down to the next channel set into memory, skipping over unwanted channels. Before selecting channels, they must be programmed into the DVD/VCR's memory. In addition to normal VHF and UHF channels, this DVD/ VCR can receive up to 113 Cable TV channels. To use this DVD/VCR with an antenna, set the TV/CATV menu option to the TV mode. When shipped from the factory, this menu option is in the CATV mode.



2 Then press ENTER. The auto tuning will start. The channel display will count up and when finished, the screen returns to normal.

set the channel to "L".

CH 002

# To ADD/DELETE channels / Noise elimination

# To ADD/DELETE channels

You can add the channels you want or delete the channels you do not want manually.



### **Preparation:**

- Turn ON the TV and set it to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD. Then press VCR to select the VCR mode. (The VCR indicator will light.)
- Repeat the step 1 on page 19. Then press ◀ or ▶ to select the "ADD/DELETE" option and press ENTER.
- CH SET UP ■ ►TV CATV ■AUTO CH MEMORY ADD/DELETE (+/-/ENTER/MENU)

# To Add or Delete desired channels

1 Press Number keys or < to select a channel number you want to add or delete.

2 To add channels Press ENTER until "ADD" appears on the screen to set to add the unmemorized channel.

| ADD                  | CH 003 |
|----------------------|--------|
|                      |        |
| (+/-/0-9/ENTER/MENU) |        |

### To delete channels

Press ENTER until "DELETE" appears on the screen to set to delete the channel from memory. The channel number will blink.

- **3** Repeat **1** to **2** to add or delete other channel.
- Press SETUP MENU until the menu screen is cleared.

# Noise elimination

When you don't want to receive a weak signal broadcast, the Blue back screen can be obtained by selecting the NO NOISE BACKGROUND "ON". When the unit is shipped from the factory, the NO NOISE BACKGROUND is set to the "ON".

- Repeat the steps 1~2 on page 18 and press ◀ or ▶ to select NO NOISE BACKGROUND.
- Press ENTER to select the ON position.





**3** Press **SETUP MENU** until the menu screen is cleared.

The Auto Clock feature enables the automatic clock setting and updating, and also to set the Time Zone and Daylight Saving Time by receiving XDS (Extended Data Service) information carried on the channel signal.



### NOTES:

- After Auto Clock setting, in some case the clock may display the other time zone's. You can correct the clock by selecting your Time Zone setting above.
- When the clock is not set or you set the clock manually, Time Zone setting is not available.

#### **Preparation:**

- · You must set the antenna connection before the AC cord plug is inserted into the AC outlet.
- Make sure the AUTO CH MEMORY (on P.19) is done.

# Auto clock setting

WAIT 30 MINUTES! when the power switch is off, after the connections of the antenna and the power plug. Because the Auto Clock setting feature is activate.

After the clock is set automatically, you may have to set the Time Zone and Daylight Saving Time.

Press POWER to turn on the DVD/VCR after the Auto Clock operation completed.

- When shipped from factory, the AUTO CLOCK option is set to ON position.
- If you turn the DVD/VCR on during Auto Clock setting, the clock is not set.
- With cable box connection, if the Auto Clock Setting is unsuccessful, please select the PBS channel carrying the XDS information, then turn the DVD/VCR off. After 30 minutes, turn the DVD/VCR on, and if the clock is not set automatically, set the clock manually. (See page 23)

#### Canadian Viewers:

Please see note regarding the Auto Clock Setting option on page 55.

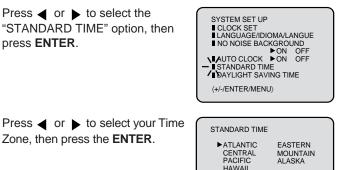
# Time Zone setting (STANDARD TIME)

In the rare event that you live within broadcast range of two stations in two different time zones, the DVD/VCR may recognize the wrong station for the AUTO CLOCK set. To correct the situation:

#### Preparation:

- Turn ON the TV.
- When a TV is connected with an audio/video cable, select the video input mode on the TV.
- When a TV is connected only with an antenna cable, set to the video channel 3 or 4. Then select VCR position with TV/VCR.
- Make sure the VCR mode has been selected. (Is the VCR indicator being light?) (see steps 1~2 on page 18)
- Press SETUP MENU. The VCR menu screen will appear. Press ◀ or ▶ to select the SYSTEM SET UP menu, then press ENTER.
- Press ◀ or ▶ to select the "STANDARD TIME" option, then press ENTER.

Zone, then press the ENTER.



AUTO

(+/-/ENTER/MENU)

A Press **SETUP MENU** until the MENU screen is cleared.

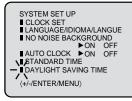
# Daylight saving time setting

You can set the Daylight saving time automatically or manually.



# Preparation:

- Turn ON the TV.
- When a TV is connected with an audio/video cable, select the video input mode on the TV.
- When a TV is connected only with an antenna cable, set to the video channel 3 or 4. Then select VCR position with **TV/VCR**.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **VCR** to select the VCR mode. (The VCR indicator will light.)
- 1 Repeat the step 1 on page 21 and press d or b to select DAYLIGHT SAVING TIME, then press ENTER.



Press ◀ or ▶ to select one of the options, then press ENTER.

- **ON:** for manual setting (forward one hour)
- OFF: for manual setting (back one hour)

AUTO: for automatic setting (read XDS in the signal)



When you want to set the Daylight Saving Time manually, on the first Sunday in April you set to "ON", and on the last Sunday in October you set to "OFF".

## NOTES:

- When shipped from factory, the DAYLIGHT SAVING TIME option is set to AUTO position.
- When the clock is not set, Daylight Saving Time setting is not available.
- When there is no Daylight Saving Time in your area, always select OFF position in step **2**.

You must set the date and time manually for timer recordings and Daylight Saving Time if the Auto Clock process did not set them correctly.



#### Preparation:

- Turn ON the TV and set to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD. Then press VCR to select the VCR mode. (The VCR indicator will light.)

EXAMPLE: Setting the clock to "8:30 AM" October, 26 (SAT), 2002.

- Press **SETUP MENU**. The VCR menu screen will appear.

Press ◀ or ▶ to select the

ENTER.

"CLOCK SET" option, then press

- MENU I TIMER REC SET AUTO REPEAT SAP N ► OFF N ► OF
- SYSTEM SET UP → CLOCK SET NANGUAGE/IDIOMA/LANGUE NO NOISE BACKGROUND → ON OFF AUTO CLOCK → ON OFF STANDARD TIME DAYLIGHT SAVING TIME ⟨+/-/ENTER/MENU⟩
- 4 Press ◀ or ▶ to set the month, then press **ENTER** button.
- MONTH -10-DAY 1 (SUN) YEAR 2000 TIME 12 : 00AM (+/-/ENTER/CANCEL/MENU)

To make corrections any time during the process Press CANCEL repeatedly until the item you want to change blinks, then press  $\blacktriangleleft$  or  $\blacktriangleright$ .

5 Set the day, year and time as in step **4**.

| MONTH          | 10                            |
|----------------|-------------------------------|
| DAY            | 26 (SAT)                      |
| YEAR           | 2002                          |
| TIME           | 8 <b>-</b> : 30A <del>M</del> |
| (+/-/ENTER/CAN | NCEL/MENU>                    |

8:30AM SAT

### NOTE:

After a power failure or disconnection of the power, the timer settings will be lost. In this case, reset the present time.

6 After setting the clock, date and time starts functioning automatically.

# Loading and Unloading a Cassette Tape

# Use only video cassette tapes marked $\overline{\text{VHS}}$ and $\overline{\text{SVHS}}$ .

# **SQPB**

- Cassettes marked "VHS" (or "S-VHS") can be used with this video cassette recorder. However, S-VHS recording is not possible with this model.
- This model is equipped with SQPB (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.

# Loading

Push the center of the tape until it is automatically inserted.





Insert the cassette tape with its labeled side facing up and the erase prevention tab positioned at your left. An inverted cassette tape cannot be inserted.





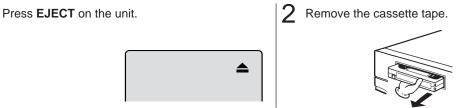
## Automatic power ON

When you insert a cassette tape the VCR power will turn ON automatically.

## Automatic playback

When loading a cassette tape without an erase prevention tab, playback will start automatically.

# Unloading

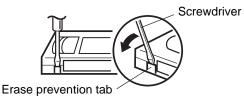


# Automatic tape eject

This VCR will automatically rewind the tape when the tape has ended. And when the tape is rewinded to its beginning, the cassette tape will be ejected automatically.

# To prevent accidental erasure

Remove the erase prevention tab with a screwdriver.



# To record again

Cover the hole with a piece of adhesive tape.



# Tape speed and maximum recording time

| Tapa Spaad         |             | ١       | /ideo cassette tape | e       |             |
|--------------------|-------------|---------|---------------------|---------|-------------|
| Tape Speed         | T-160       | T-120   | T-90                | T-60    | T-30        |
| SP (Standard Play) | 2-2/3 hours | 2 hours | 1-1/2 hours         | 1 hour  | 30 minutes  |
| EP (Extended Play) | 8 hours     | 6 hours | 4-1/2 hours         | 3 hours | 1-1/2 hours |

# **Preparation:**

- Turn ON the TV and set to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD. Then press VCR to select the VCR mode. (The VCR indicator will light.)
- Load a prerecorded tape (When loading a cassette tape without the erase prevention tab, playback will start automatically).





## NOTES:

- This VCR selects the playback tape speed SP or EP automatically.
- The Cassette tape and DVD disc can be played back simultaneously. If you press VCR or DVD, the tape playback and DVD playback alternate with each other on the screen.

# To start playback

Press PLAY. Playback will start. " ▶ " will appear on the screen for about 4 seconds.





# To stop playback

Press STOP once. The tape will stop but remain fully loaded and ready to play. " will appear on the screen for about 4 seconds.



# To rewind the tape or forward it rapidly

Stop the playback or recording with STOP.

To rewind the tape:

Press REW.

To forward the tape: Press FF.





To stop the tape-winding, press STOP. To switch to playback directly (without STOP), press PLAY.

# Forward/Reverse picture search mode

When the tape is being winded, you can switch to picture search mode (see next page). To do this, press REW or FF and hold it down. The unit will resume the tape winding as soon as the button is released.

# Special playback

# **Picture Search**

**Reverse picture search function** Press **REW** x 1 or x 2 during the playback.

## **Forward picture search function** Press **FF** x 1 or x 2 during the playback.

To return to playback: Press **PLAY**.

# Still Picture

Press **PAUSE** during playback. To resume normal playback: Press **PLAY**.

# Slow Motion

During playback press **SLOW**. To return to playback: Press **PLAY** or **SLOW**.

# Slow tracking and vertical lock adjustment

If noise bars appear in the picture during slow motion, press the **SET +** or – to reduce the noise bars. If the still picture jitters excessively, press **SET +** or – to stabilize the still picture.

# Frame by Frame picture

Press **PAUSE** during playback. Press **SLOW** one by one: The picture advances frame by frame.

To return to playback: Press PLAY or PAUSE.

# Adjusting tracking condition

## 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, press **SET +/–** to eliminate the noises. "MANUAL TR." will appear. Press it briefly for a fine adjustment, or press and hold for a coarse adjustment.

• Press **A.TRK** to reactivate automatic tracking again. "AUTO TR." will appear.

## Notes:

- The audio output is muted during SPEED SEARCH, STILL, FRAME ADVANCE and SLOW MOTION.
- During picture search mode there will be noise bars which are caused by the system.
- The Special Playback will automatically change to playback after approx. 5 minutes to protect the video tape against excessive wear.

# Repeat playback

The entire video tape will be played until its end. The tape will then automatically rewind to the beginning and the playback will be repeated.

- 1 Press **SETUP MENU**. Press ◀ or ▶ to select AUTO REPEAT.
- 2 Then press ENTER to select [ON] or [OFF]. If [ON] is selected, the playback will be repeated endlessly.



 $\langle \text{+/-/ENTER/MENU} \rangle$ 

- Press SETUP MENU until the menu screen is cleared. if you press OSD, "℃" will appear on the screen.
- 4 To start the playback, press **PLAY**. The playback will be repeated endlessly.

# To cancel repeat mode:

Follow the above step 1, then press **ENTER** to select the OFF position. Press **SETUP MENU** to return to the TV.

# Skip Search

Each time you press **SKIP SEARCH** while a tape is playing, the unit will fast-forward ahead 30 seconds on the tape. You may press the button up to six times in a row to move 180 seconds (three minutes) ahead.

For example: 1 press: 30 seconds of tape 2 presses: 60 seconds of tape 3 presses: 90 seconds of tape

# ZERO RETURN function / Video Index Search system

# **ZERO RETURN function**

This function makes tape-rewinding stop at the counter 00:00:00 position automatically.



## **NOTES for Counter Display:**

- If you rewind the tape beyond "00:00:00", a minus sign ("-") will be displayed in front of the time counter.
- When you load a tape, the counter will reset to "00:00:00".
- The counter does not function on nonrecorded (blank) sections of the tape. When you rewind, fast forward or play tapes through blank sections, the counter stops.

### NOTES for Video Index Search system:

- When you record an INDEX mark at the very beginning of the tape, the mark may not be found.
- During INDEX search, the tape may stop and begin to play at a slightly different location.
- INDEX may not function properly with old or worn out video tapes.
- INDEX marks may not be found if it is extremely close to the point where the search began.
- In recording, if you stop recording temporarily, the INDEX mark is not recorded on the tape.

### **Preparation:**

- Turn ON the TV and set it to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD. Then press VCR to select the VCR mode. (The VCR indicator will light.)

# Press OSD.

The counter display shows the ta running time during playback recording. пп.пт

| ape<br>or | 8:47AM MON<br>STEREO SAP | CH 001      |
|-----------|--------------------------|-------------|
|           |                          | 00:04:38 SP |
|           |                          |             |

Press C. RESET at the desired tape position. The counter display will be reset to the "00:00:00" position (e.g. the begining of recording).



001

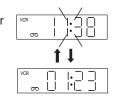
Press STOP when playback or recording is finished. Press ZERO RETURN.

The tape will be rewinded or fast forwarded and automatically stop at the "00:00:00" position.

00.00

# The DISPLAY-button

Press **DISPLAY**. The clock and tape counter alternate with each other in the display.



# Video Index Search system

This function enables you to locate the beginning of any recording made on the VCR.

## Recording an INDEX MARK

The Index Search function automatically records an INDEX mark on the tape whenever a recording is initiated.



# **Index Search**

Press INDEX ►► or K< during stop or play mode.

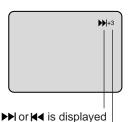
For Succeeding programs: Press INDEX ►►I. For Preceding programs: Press INDEX I. (Additional press increases the INDEX NO. up to 9.)

When the INDEX ►► or ◄◄ is pressed, the unit starts searching the INDEX NO.

selected and finds the portion, then

playback starts automatically.

To stop the Index Search, press STOP.



INDEX NO. (up to 9)

# Recording a TV program

Recording and viewing the same TV program



# NOTE:

- If the erase prevention tab is removed, the tape will eject when both the REC and PLAY are pressed for recording.
- If you wish to watch the DVD playback during the normal recording on VCR, press **DVD** to change to DVD mode and perform the DVD playback(see P.37).

#### Preparation:

- Turn ON the TV and set it to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD. Then press VCR to select the VCR mode. (The VCR indicator will light.)
- Load a cassette tape with the erase prevention tab intact.
   The VCR will automatically turn on.



2 Press **SP/EP** to select the desired tape speed SP or EP. The tape counter and SP or EP will appear on the screen for about 4 seconds.



Set the TV/CATV option to the appropriate position (See page 19).

TV - VHF/UHF channels CATV - CABLE TV channels

- 4 Press Number keys or VCR CH +/- to select the channel to be recorded.
  - 1-9 Press **0** twice and then **1-9** as required. Example: To select 2, Press "**002**".
  - 10-12 Press **0** first and then the remaining 2 digits in order from left to right.
  - Example: Press **012** for "12". 13-99 Press 2 digits in order.
  - Example: Press **22** for "22". 100-125 Press the 3 digits in order. Example: Press **110** for "110".



# VHF/UHF/CATV CHANNELS

| TV    | CATV               |
|-------|--------------------|
| VHF   | VHF                |
| 2-13  | 2-13               |
| UHF   | STD/HRC/IRC        |
| 14-69 | 14-36 (A) (W)      |
|       | 37-59 (AA) (WW)    |
|       | 60-85 (AAA) (ZZZ)  |
|       | 86-94 (86) (94)    |
|       | 95-99 (A-5) (A-1)  |
|       | 100-125 (100)(125) |
|       | 01 (5A)            |

5 On the VCR, press REC.

Or on the Remote, while holding **REC**, press **PLAY**.

" • " will appear on the screen for about 4 seconds and "REC" will appear on the display.

CH 110 INDEX -

# Recording a TV program

## To stop recording

Press **STOP** to stop recording. " I will appear on screen for about 4 seconds.



# To stop recording temporarily

Press **PAUSE** to avoid recording unwanted material. Press again to continue the recording.

" •III " will appear on screen for about 4 seconds.



### NOTE:

- The pause function will be released after 5 minutes to prevent damage to the tape or the VCR. The VCR will change to the STOP mode.
- You can select a recording channel in the recording pause mode.

# Recording one program while watching another

While the VCR is recording, press **TV/VCR** to select the TV position. The "VCR" will go off and recording will continue.

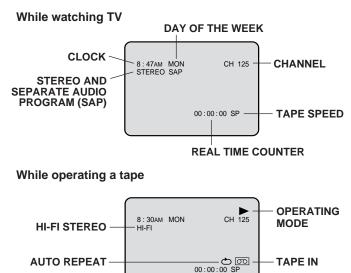
Select the TV channel you want to watch by using the TV channel selector. If the connected TV is JVC's, use **TV CH +/–** after slide **TV/ VCR/DVD** switch to TV.

## NOTE:

Some CATV hookups do not permit viewing one channel while recording another. See pages 14,15.

# To Display VCR operation Status

Press **OSD**. The clock, day of the week and more information will be indicated.



To cancel the display: Press OSD until all indicators disappear.



# Auto Rewind feature

This VCR will automatically rewind the tape when the tape has ended (except during ITR and TIMER REC). It will also eject the tape.

# Instant Timer Recording (ITR)

The Instant Timer Recording feature provides a simple and convenient way to make a timed recording.



# NOTE:

If you wish to watch the DVD playback during the ITR, press **DVD** to change to DVD mode and perform the DVD playback (see P.37).

#### Preparation:

- Turn ON the TV and set it to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD. Then press VCR to select the VCR mode. (The VCR indicator will light.)

**Example:** Instant Timer Recording for 30 minutes.

1 Load a cassette tape with the erase prevention tab intact. The VCR will automatically turn on.

| 2 | Press <b>SP/EP</b> to select the desired tape<br>speed SP or EP.<br>The tape counter and SP or EP will<br>appear on the screen for about 4 |
|---|--|
|   | seconds.   |



ത

3 Set the TV/CATV option to the appropriate position (See page 19).

TV - VHF/UHF channels CATV - CABLE TV channels

4 Press Number keys or VCR CH +/- to select the channel to be recorded.



5 Press REC on the VCR or while holding REC, press PLAY on the Remote to begin recording. Press REC on the VCR again to stop recording after 30 minutes. Each additional press of REC will increase recording time as shown in the chart below, up to a maximum of 5 hours. The ITR and recording time will appear on the screen for about 4 seconds. And, REC will keep blinking in the display.

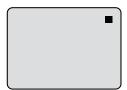
| Press   | Recording time | Press   | Recording time |
|---------|----------------|---------|----------------|
| once    | NORMAL REC     | 6 times | 3:00           |
| twice   | 0:30           | 7 times | 4:00           |
| 3 times | 1:00           | 8 times | 5:00           |
| 4 times | 1:30           | 9 times | NORMAL REC     |
| 5 times | 2:00           |         |                |



# To cancel ITR

Press **STOP** or turn off the power.

" I will appear on screen for about 4 seconds.



Timer recording can be programmed on-screen with the remote control. The built-in timer allows automatic unattended recording of up to 8 programs within 1 month.



# NOTES:

- If the clock symbol (2) blinks when the timer recording ended, the TV program has not been completely recorded because of an insufficient tape supply. In this case, press **TIMER** to cancel the timer program or press EJECT to remove the cassette tape.
- During timer recording standby mode, the VCR mode cannot be selected. To use the VCR, press TIMER at first, then press VCR to change to VCR mode. After you use the VCR, press TIMER again to put the VCR into timer recording standby mode.
- If you press TIMER during timer recording, the recording operation will be interrupted. If you press TIMER again within the programmed time, the recording operation will start again.
- After a power failure or disconnection of the power plug, all programmed recording settings and time display will be lost upon resumption of power. In this case, reset the clock (see pages 21-23) and reprogram any timer recordings.

#### Preparation:

- Make sure TV/VCR/DVD switch has been slided to VCR/DVD. Then press VCR to select the VCR mode.
- Load a cassette tape with the erase prevention tab intact.
- Press OSD to verify that the time and date are correct (see page 29).

Example: Program a timer recording for the 26th day, channel 125 (CATV), 11:00 - 11:30 PM on timer program number 1 (Tape speed: EP).

Press SETUP MENU. Select the TIMER REC SET option, then press ENTER.

Press SET + or - to select the date,

then press ENTER.

MENU TIMER REC SET ON ►OFF ON ►OFF SAP CH SET UP SYSTEM SET UP (+/-/ENTER/MENU)

| _ |                           |   |
|---|---------------------------|---|
|   | DATESTART_END_CH<br>26(SU | - |
|   | (+/-/ENTER/CANCEL/MENU)   |   |
|   |                           |   |

START END

(+/-/ENTER/CANCEL/MENU)

11:00PM 11:30PM 125

DATE

26(SU)

Set the start time, end time, channel and tape speed as in step 3.

#### NOTES:

- Press CANCEL to move cursor backward for correction.
- · To record from external source set the channel to "L". "L" will appear next to CH 125 (or 69).
- To enter other programs, repeat step 2 through 4.
  - To return to the normal screen, press SETUP MENU twice.

| DATE START END CH<br>11:00 рм 11:30 рм 125 гг |
|---|
| <u> </u>                                      |
|   |
| <pre></pre>                                   |

**O** Press **TIMER**. The clock symbol(**D**) will appear on the display and the VCR stands by for recording. At the same time, VCR mode will change to DVD mode automatically. You can use DVD even if the VCR is in the Timer recording mode. If you do not use the DVD, turn the power off.

The timer recording will start at 5 seconds before the time you predetermined.

### NOTES:

- If the clock symbol ( 2) does not appear on the display in spite of the pressing of **TIMER**, the cassette may not have been loaded yet. (see page 24)
- If the cassette is ejected in spite of the pressing of **TIMER**, the erase prevention tab of the cassette may have been removed. (see page 24)

# Timer-Recording

## Timer Recording Special case

Weekly (e.g. WKL-TU: each Tuesday) or daily (e.g. MO-SA: Monday to Saturday) Timer recording

Follow the procedure of timer recording on the previous page. At picture 3 press SET + or - repeatedly until the desired setting appears. Then press ENTER.

When you press SET - repeatedly, the indicator at DATE will change as follows, in this case the today is Friday.

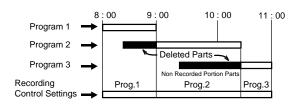
The current day (Friday)  $\rightarrow$  SU-SA (Sunday to Saturday)

↑ MO-SA (Monday to Saturday) One month later minus one dav WKL-WE (Weekly Wednesday)

MO-FR (Monday to Friday) WKL-TH (Weekly Thursday)

# In case Timer programs-overlap

 Do not overlap timer programs as portions of the conflicting programs will be lost. The first recording time has priority over the next recording time as shown in the diagram below.



## NOTES:

- The daily/weekly recording can be made continuously until the recording is canceled or the tape reaches the end.
- During timer recording the automatic rewinding mechanism does not function.

## Confirmation / Cancellation of the Timer Recording

If the Timer has been activated, press TIMER to deactivate the Timer. The clock symbol(2) will disappear. Then press VCR to change to VCR mode.

# $2\,$ To confirm Timer program:

At picture 1 on the previous page select the TIMER REC SET option and press ENTER. Then the timer program list as right will appear on the screen.



# **R** To cancel Timer program:

Press SET + or - to select the unnecessary program, then press CANCEL to cancel the program.

| <u>.</u> |         |                |        |     |   |
|----------|---------|----------------|--------|-----|---|
|          | DATE    | <b>\</b> START |        |     |   |
|          | L       | +-+-           |        |     |   |
|          |         |                |        |     | _ |
|          |         |                | -:     |     | _ |
|          |         |                | -:     |     |   |
|          | (+/-/EN | FER/CANC       | EL/MEN | ۱U> |   |

Press SETUP MENU repeatedly until the TV-picture appears.

## NOTES:

- If there are other timer record programs remaining, **TIMER** must be pressed to reactivate the timer, otherwise the remaining timer record programs will be ignored.
- You cannot confirm the Timer program during timer recording operation.
- You can also correct the programmed setting in program confirm mode.

At step 2 above, press ENTER to enter the program input mode. Then press ENTER repeatedly until the

item you wish to correct blinks. Then correct the data with SET + or -.

Then press SETUP MENU repeatedly until the TVpicture appears.

DATE START END 26(SU) 11:00PM 11:30PM 125 EP (+/-/ENTER/CANCEL/MENU)

# Stereo Recording and Playback

The VHS Hi-Fi audio system permits high fidelity recording of MTS STEREO TV broadcasts.



NOTES:

- When playing back a tape that is not recorded in Hi-Fi stereo mode, the audio will automatically be monaural.
- When listening to a VHS Hi-Fi video tape or MTS broadcast through the VHF/UHF jack (Audio/Video cord not connected), the sound will be monaural.

When a MTS STEREO broadcast is received, the word STEREO will appear on the screen and the program can be viewed or recorded in stereo. The Hi-Fi STEREO recording procedure is the same as for normal recordings.



### NOTES:

When using a CATV system, stereo TV programs may be transmitted over a mono cable channel. In this case the word "STEREO" will not appear and the sound will be in mono.

## **Output selection**

When viewing an MTS STEREO TV program, or playing a prerecorded VHS Hi-Fi STEREO videotape, press **A. MONITOR** to select how the audio will be heard through the speakers. Normally set to the Hi-Fi STEREO position, this button can be set to the MONO position if the stereo broadcast or videotape audio is of poor quality. The "R" and "L" positions allow the audio from the Right or Left Hi-Fi channel to be heard over both TV speakers. This button has no effect when viewing a MONO videotape or TV program. Each time when you press the button, OUTPUT SELECTION display appears on the screen for several seconds. Refer to the chart below.

| OUTPUT    | SOUND HEARD ON BOTH |
|-----------|---------------------|
| SELECTION | SPEAKERS            |
| STEREO    | STEREO              |
| L ch      | LEFT CHANNEL AUDIO  |
| R ch      | RIGHT CHANNEL AUDIO |
| MONO      | MONO                |

# Separate Audio Program (SAP)

Your VCR is fitted with a SAP broadcast system which enables you to switch to a separate audio program when viewing a selected channel.

This function applies only when the program is broadcast in multi-languages through the SAP broadcast system.

Press **SETUP MENU**. Then press  $\blacktriangleleft$  or  $\blacktriangleright$  to select SAP.

**2** Then press ENTER to select [ON].

Then press **SETUP MENU** until the menu screen is cleared.

| MENU<br>I TIMER REC SET<br>AUTO REPEAT ON ► OFF<br>SAP<br>I SYSTEM SET UP<br>SYSTEM SET UP |
|--|
| (+/-/ENTER/MENU)   |

# Listening to SAP

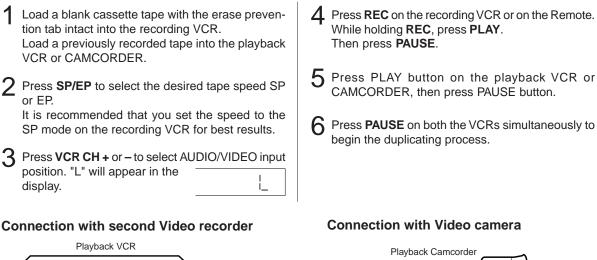
When the VCR is turned on or a channel selection is made, make certain the letters "SAP" appears on the screen. This means that the "Separate Audio Program" broadcasting is available.

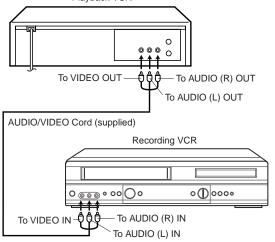
| STEREO SAP | OR | SAP |
|------------|----|-----|
|------------|----|-----|

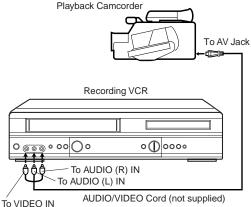
# Duplicating a video tape/Duplicating a disc material onto a video tape

# Duplicating a video tape

If you connect the VCR to another VCR or camcorder, you can duplicate a previously recorded tape. Make all connections before turning on the power.







For duplicating a previously recorded tape from a camcorder, follow the camcorder manufacturer's instructions. A typical camcorder dubbing hookup is shown above.

# Duplicating a disc material onto a video tape

You can record disc material in DVD, Video CD, Audio CD, etc. onto a video tape with this DVD/VCR only. If the DVD disc has a Copy-guard feature, the duplicating is not possible. A symbol mark " ∅ → " will appear on the screen for approx. 4 seconds. See page 37 for more information about the DVD playback.

### Preparation:

- Load a cassette tape with the erase prevention tab intact.
- Select the tape speed in the VCR mode. (see P.28)
- Load a disc you wish to duplicate.
- **1** Press **DVD** to select the DVD mode. (The DVD indicator will light)
- Press **PLAY** to start the disc playback.

B During disc playback, press **REC** on the VCR or while holding **REC**, press **PLAY** on the Remote. The duplicating will start.

## Note:

You can set the duplicating time using the ITR-function. At step **3** above press **REC** repeatedly until the desired duplicating time appears on the screen.(P.30) This unit applies to DVD discs from Region 1 only. The loaded Disc (DVD, Video-CD, Audio-CD and MP3-CD) will be recognized automatically. The suitable Disc-formats are: DVD, CD-R and CD-RW.

Do not play DVD-ROM, DVD-Audio, CDV, CD-G or Photo CD to prevent accidental erasure of prerecorded material.

Some DVDs are played back with a Copy guard system. In case of a dubbing on video tape, strong disturbance may occur. This is not a defect of this DVD/VCR.

### Title

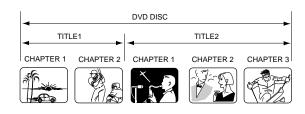
When two or more movies are recorded on a disc, the disc is divided into two or more sections. Each section is called a "TITLE".

### Chapter

The titles can be subdivided into many sections. Each section is called a "CHAPTER".

### Video-CD/Audio-CD-Track

An Video CD or Audio CD can contain several items. These are assigned to the tracks.



| Video-CD/Audio-CD |         |         |         |         |
|-------------------|---------|---------|---------|---------|
| TRACK 1           | TRACK 2 | TRACK 3 | TRACK 4 | TRACK 5 |
| ~וועו             | лл ~    | ~۲۲۲۲   | ```     | лл ~    |

## **Removing Disc from Case**

Be sure to hold the edge of disc. Do not touch the surface of the disc. Pick up the disc gently from the case.

- Do not scratch the disc.
- Do not get dirt on the surface of the disc.
- Do not stick a label or adhesive tape on the disc.
- Do not drop or bend the disc.

## **Storing Disc**

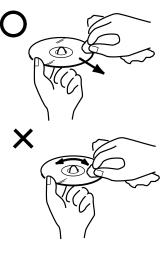
- Store the disc in the case to avoid risk of scratches, dirt or damage.
- Do not leave disc exposed to direct sunlight or in hot or humid places.

## **Cleaning Disc**

Wipe the disc with a clean, dry cloth from center to edge.

- Do not wipe the disc round.
- Do not use liquid or aerosol cleaners.





# Setting setup language

The setup language can be selected.



If the DVD/VCR does not operate properly: Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.

#### Preparation:

- Turn ON the TV and set it to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD.
- When using an amplifier, switch on the amplifier.
- 1 Press **DVD** to select the DVD mode. (The DVD indicator will light) "No Disc" will appear on the screen. (If a DVD disc has already loaded, the playback will start automatically.)
- 2 Press **SETUP MENU** in the stop mode. The SETUP MENU of DVD will appear on the screen. Then press ◀ or ► to select Other.
- Bress ENTER to select OSD Language.
  - 4 Press ► and then press ▲ or ▼ to select desired language (e.g. English), then press ENTER.

| Language Picture Sound Parental Other |         |                                |  |  |  |
|---------------------------------------|---------|--------------------------------|--|--|--|
| OSD Language                          | English | English<br>Francais<br>Espanol |  |  |  |
| ▲►▲▼/Enter/Setup/Return               |         |                                |  |  |  |

Language Picture Sound Parental Other

Language Picture Sound Parental Other

▲►▲▼/Enter/Setup/Return

OSD Language English

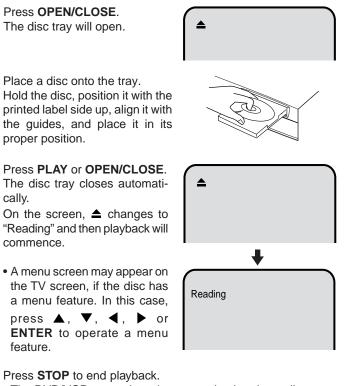
▲ ▼ /Enter/Setup/Return

**NOTE:** To make the SETUP screen disappear, press **SETUP MENU** (or **RETURN**).



### **Preparation:**

- Turn ON the TV and set it to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)



- **A** Press **STOP** to end playback.
  - The DVD/VCR memorizes the stopped point, depending on the disc. "▶" appears on the screen for approx. 4 seconds. "▶" keep blinking in the display until the playback is stopped completely. Press PLAY to resume playback (from the scene point).
  - If you press **STOP** again(" press on the screen) or unload the disc, the DVD/VCR will clear the stopped point.

#### Then press OPEN/CLOSE. 5

The disc tray opens.

Remove the disc and press POWER. The disc tray closes automatically and DVD/VCR turns off.

### Notes:

- If a non-compatible disc is loaded, "Incorrect Disc", "Region Code Error" or "Parental Error" will appear on the TV screen according to the type of loaded disc. In this case, check your disc again (See pages 35 and 46).
- Some discs may take a minute or so to start playback.
- A "Prohibition" symbol ₩ may appear at the upper left of the screen. This symbol means either the feature you tried is not available on the disc, or the DVD/VCR can not access the feature at this time. This does not indicate a problem with the DVD/VCR.
- When you set a single-faced disc label downwards (ie. the wrong way up) and press PLAY or OPEN/CLOSE, "Reading" will appear and remain on the screen for approx. 40 seconds and then it will change to "Incorrect Disc".
- Some playback operations of DVDs may be intentionally fixed by software producers. Since this DVD/VCR plays DVDs according to the disc contents the software producers designed, some playback features may not be available. Also refer to the instructions supplied with the DVDs.
- When playing DTS-encoded Audio CDs, excessive noise will be heard from the analog stereo outputs. To avoid possible damage to the audio system, the consumer should take proper precautions when the analog stereo outputs of the DVD/VCR are connected to an amplification system.

# Special playback

Note: There may be a slight delay between pressing the button and the function activation.



### Note:

The unit is capable of holding a still video image or On screen display image on your television screen indefinitely. If you leave the still video image or On screen display image displayed on your TV for an extended period of time, you risk permanent damage to your television screen. Projection televisions are very susceptible.

### Fast Forward Playback

Press **FF** during normal playback. Each press of **FF** will increase the speed of the search  $\triangleright (x2)$ ,  $\triangleright \triangleright (x4)$ ,  $\triangleright \bullet \bullet \diamond (x8)$ ,  $\bullet \bullet \bullet \bullet \bullet (x20)$ .

• To resume normal playback, press PLAY.

### **Review Playback**

Press **REW** during normal playback. Each press of **REW** will increase the speed of the search ◀◀ (x2), ◀◀◀ (x4), ◀◀◀◀ (x8), ◀◀◀◀◀ (x20).

• To resume normal playback, press **PLAY**.

### Still Playback

Press **PAUSE** during normal playback.

To resume normal playback, press **PLAY**.



### Frame Advance

Press **PAUSE** during still playback. One frame is advanced each time you press **PAUSE**.

To resume normal playback, press **PLAY**.

| > |  |
|---|--|
|   |  |
|   |  |
|   |  |

### **Slow-motion Playback**

Press **SLOW** during normal playback or still playback. Each press of **SLOW** will change the speed of the slow x1/2, x1/4, x1/6, x1/7.

- To resume normal playback, press PLAY.
- To resume the still playback, press PAUSE.

### Locating a chapter or track

Press **SKIP** (►►I) Forward or **SKIP** (I◄◄) Reverse during playback to locate a chapter that you want to watch. Each time you press the button, a chapter or track is skipped.



### Notes:

- You can use the Pause, Slow, Search or Skip feature in the zoom mode.
- In case of the Video-CD playback with PBC, the SEARCH MODE does not work.

### **Preparation:**

• Turn ON the TV and set it to the video input mode.

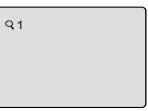
Zooming / Locating Desired Scene

• Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

### Zooming

This unit will allow you to zoom in on the frame image. You can then make selections by switching the position of the frame.

Press ZOOM during playback. The center part of the image will be zoomed in. Each press of ZOOM will change the ZOOM Q 1 (x 1.3), Q 2 (x 1.5) and Q 3 (x 2.0).



- 2 Press ▲/▼ or ◀/▶ to view a different part of the frame. You may move the frame from the center position to UP, DOWN, LEFT or RIGHT direction.
- 3 In the zoom mode press **ZOOM** repeatedly to return to a 1:1 view (Q Off).

### **Locating Desired Scene**

Use the title, chapter and time recorded on the disc to locate the desired point to play back.

To check the title, chapter and time, press OSD. (see page 52)

Press **SEARCH MODE** during playback or stop mode.

| Jump   | Time<br>Title<br>Chapter | :         |
|--------|--------------------------|-----------|
| ▲▼/Ent | er/0-9/Car               | ncel/Jump |
|        |                          |           |
|        |                          |           |
|        |                          |           |
|        |                          |           |

- 2 Press  $\blacktriangle$  or  $\blacksquare$  to select the "Time", "Title" or "Chapter".
- **3** Press **Number keys** to change the number.
  - If you input a wrong number, press CANCEL.
  - Refer to the package supplied with the disc to check the numbers.

### 4 Press ENTER.

Playback starts.

- When you change the title, playback starts from Chapter 1 of the selected title.
- Some discs may not work in the above operation.

# **Repeat playback**



### Notes:

- Some discs may not work with the repeat operation.
- In A-B repeat mode, subtitles near point A or B may not appear.
- During the A-B Repeat Playback the ANGLE feature will not operate.
- You may not be able to set A-B Repeat, depending on the scenes of the DVD.
- A-B repeat does not work with an interactive DVD, MP3-CD and Video-CD with PBC.

#### Preparation:

- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

### Title, Chapter, Track Playback

- Press PLAY MODE during playback or stop mode. DVD CD Repeat Off Play Mode Off ✓►/Enter/Play Mode Repeat Off ▲►▲▼/Enter/Play Mode Press ENTER once or twice to select "Chapter" or "Title". 2 In case of CD, at first press **V** to select "Repeat" and then press ENTER once or twice to select "Track" or "All". DVD CD Chapter Repeat Play Mode Off /Enter/Play Mode Repeat All ▲►▲▼/Enter/Play Mode
- 3 Press **PLAY MODE** again to make the screen disappear.
  - Press **PLAY** to start Repeat playback.
  - To resume normal playback, select Repeat Off.

### A-B Repeat Playback

A-B repeat playback allows you to repeat material between two selected points.

Press **REPEAT A-B** during playback. The start point is selected.

| (     |  |  |
|-------|--|--|
| Г А—  |  |  |
| ii A- |  |  |
|       |  |  |
|       |  |  |
|       |  |  |
|       |  |  |
|       |  |  |

Press REPEAT A-B again. The end point is selected. Playback starts at the point that you selected. Playback stops at the end point, returns to Point A

🛄 А-В

To resume normal playback press **REPEAT A-B** again.

" Off" appears on the screen.

automatically, then starts again.



### Notes:

- To cancel program play, select "Clear" at step **3** and press **ENTER**.
- The program is cancelled when you open the disc tray or turn the power off.
- Random playback can not be combined with Repeat playback.

### Preparation:

- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

### **Program playback**

You can arrange the order of tracks on the disc.

Press **PLAY MODE** in the stop mode.

| Play Mode | :      | Off  |  |
|-----------|--------|------|--|
| Repeat    | :      | Off  |  |
| ▲►▲▼/Ente | r/Play | Mode |  |
|           |        |      |  |

2 Press ENTER repeatedly until the Program table as right appears.

| Play Moc<br>Repeat               | le   | : Prograr<br>: Off | n    |
|----------------------------------|------|--------------------|------|
| 1                                | 4    | 7                  | 10   |
| 2                                | 5    | 8                  | 11   |
| 3                                | 6    | 9                  | 12   |
| Clear                            | Prog | gram Playb         | back |
| ▲►▲▼ /Enter/0-9/Cancel/Play Mode |      |                    |      |

**Example:** In case you wish to program in order of 7, 3, 11: Enter as **7** ♥, **3** ♥, **11**.

If you input a wrong number, press **CANCEL**.

Press ▲/▼ or ◀/ ► to select "Program Playback" and press ENTER. "Program Playback" will appear on the screen. The program you selected will begin to playback in the order set. To return to normal playback, select "Play Mode: Off" at step 2 above.

| Play Mode                       | : Program     |  |  |  |
|---------------------------------|---------------|--|--|--|
| Repeat                          | : Off         |  |  |  |
| 17 4                            | 7 10          |  |  |  |
| 2 3 5                           | 8 11          |  |  |  |
| 3 11 - 6                        | 9 12          |  |  |  |
| Clear Prog                      | gram Playback |  |  |  |
| ▲►▲▼/Enter/0-9/Cancel/Play Mode |               |  |  |  |

| Program Playback |  |
|------------------|--|
|                  |  |
|                  |  |
| l                |  |

### Random playback

Press **PLAY MODE** in the stop mode.

Play Mode : Off Repeat : Off ◄▶▲▼/Enter/Play Mode

2 Press  $\blacktriangleleft$  /  $\blacktriangleright$  to select "Random".

Play Mode : Random Repeat : Off <▶▲▼/Enter/Play Mode

### Rress PLAY.

"Random Play" will appear on the screen and Random Playback will start.

# **MP3 Playback**

This player can play back the MP3-data which has been recorded on CD-R or CD-RW. To produce the MP3-data, you need a Windows-PC with CD-ROM drive and a MP3encoding Software (not supplied). The Apple-HFS-System can not be played.

### **MP3 CD Information**

### Limitations on MP3 CD playback

- MP3 CD is the disc that is standardized by ISO9660, its file name must include 3-digits extension letters, "mp3".
- The directory and file names of the MP3 CD must be correspond to the ISO standardized files.
- This unit can read 200 files per disc. If one directory has more than 200 files, it reads up to 200 files, the remaining files will be omitted.
- As for multi-session disc, only the first session can be played.
- If the CD has both audio tracks and MP3 files, only audio tracks are played.
- It may take more than one minute for this unit to read MP3 files depending on its structure.
- Music recorded by "Joliet Recording Specification" can be played back, the file name is displayed (within 17 letters) on the screen Long file names will be condensed.
- The music files recorded by "Hierarchical File System" (HFS) cannot be played.

### Limitations on display

- The maximum number for display is 17 letters. Available letters for display are the following: capital or small alphabets of A through Z, numbers of 0 through 9, and \_ (under score).
- Other letters than those above are replaced in hyphen.

### Notes on MP3 files

To play back MP3 CD in the recorded order,

- 1. Use MP3 software that records data alphabetically or numerically.
- 2. Name each file including two-digit or threedigit number (e.g. "01" "02" or "001" "002").
- 3. Refrain from making too many sub-folders.

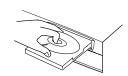
### CAUTION:

- Some MP3 CDs can not be played back depending on the recording conditions.
- The CD-R/RW that has no music data or non-MP3 files can not be played back.

### Preparation:

- Turn ON the TV and set it to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/ DVD. Then press DVD to select the DVD mode. (The DVD indicator will light.)

#### Press **OPEN/CLOSE**. The disc tray will open. Place a disc onto the tray.



2 Press PLAY or OPEN/CLOSE. The disc tray closes automatically. On the TV-screen, "Reading" and then reading file number will appear. Reading will take as much time as the number of file.

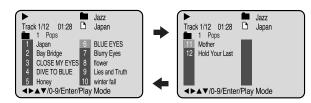


Reading MP3 15

 A MP3 menu screen will appear on the TV screen.
 Press ◀/▶ or ENTER to select folder.



- Press ▲/▼ or ◀/ ► or **Number keys** to select the desired track, then press **ENTER**. Track is selected and play commences.
  - In case the folder includes more than 11 tracks, press ◀ or ▶ to display next track list.



### 5 Press STOP to end playback.

- The unit records the stopped point. "▶" appears on the screen. Press **PLAY** to resume playback (from the scene point).
- If you press **STOP** again or unload the disc, the unit will clear the stopped point.

### 6 Then press OPEN/CLOSE.

The disc tray opens.

Remove the disc and press **POWER**.

The disc tray closes automatically and DVD/VCR turns off.

### Notes:

- During MP3-Playback, you can not use SEARCH, A-B Repeat functions.
- You can use Repeat (Track or All), Random functions and Program playback for MP3 CD Playback. (See page 40 and 41)

The unit stores the points that you want to watch again up to 3 points. You can resume playback from each scene.



### Notes:

- Some discs may not work with the marking operation.
- The marking is canceled when you open the disc tray or turn the power off.
- Some subtitles recorded around the marker may fail to appear.
- While the MARKER screen is displayed, if you do a special playback as the Fast Forward/Review Playback or SKIP, the MARKER screen will disappear. Press **MARKER** again as soon as you find the desired scene.

# **Marking Desired Scenes**

#### **Preparation:**

- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

### Marking the Scenes

Press MARKER during playback.

|           |       | **:**:**  |
|-----------|-------|-----------|
| Marker    | 2 :   | **:**:**  |
| Marker    | 3 :   | **:**:**  |
| ▲▼/Enter/ | Cance | el/Marker |

1: 00:27:54

2: \*\*:\*\*

3: \*\*:\*\*

▲ ▼/Enter/Cancel/Marker

Marker

Marker

Marker

- 2 Select the blank Marker using ▲/▼. Then press ENTER at the desired scene.
  - Repeat this procedure to set the other 2 scenes.
- **3** Press **MARKER** to remove this display.

### **Returning to the Scenes**

Press **MARKER** during playback or stop mode.

| Marker    | 1:      | 00:27:54  |
|-----------|---------|-----------|
| Marker    | 2 :     | 01:16:25  |
| Marker    | 3:      | 02:08:31  |
| ▲ ▼/Enter | r/Cance | el/Marker |

Press  $\blacktriangle/ \mathbf{\nabla}$  to select the Marker 1-3.

| Marker    | 1:     | 00 : 27 : 54 |
|-----------|--------|--------------|
| Marker    | 2:     | 01:16:25     |
| Marker    | 3:     | 02:08:31     |
| ▲ ▼/Enter | /Cance | el/Marker    |

### 3 Press ENTER.

Playback starts from the marked scene.

### To Cancel the Mark

Press MARKER.



Press CANCEL. To remove this display, press MARKER.

# Changing soundtrack language / Subtitles



#### **Preparation:**

- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

### Changing soundtrack language You can select the language when you play a multilingual disc.

 Press A.MONITOR during playback. The current soundtrack language will appear.
 Press A.MONITOR repeatedly until the desired language is selected. The on-screen display will disappear after a few seconds.

### In case of VIDEO CD playback

### Audio type changes as follows each time you press A.MONITOR.



### Turning the Subtitles On and Off

When playing back a disc recorded with subtitles, you can turn the subtitles on or off.

### Notes:

- If the desired language is not heard after pressing the button several times, the language is not recorded on the disc.
- Changing soundtrack or subtitle language is cancelled when you open the disc tray or turn the power off. The initial default language or available language will be heard and seen if the disc is played back again.
- Depending on the DVD you may be unable to turn on, turn off, or change the subtitles, even if they are recorded on the disc. While playing the DVD, the subtitle may change while opening or closing the disc tray, or while changing the title.
- In some cases, the subtitle language is not changed to the selected one immediately.

Press **SUB TITLE** during playback until "OFF" appears.

| Off |  |
|-----|--|
|     |  |
|     |  |
|     |  |

### Changing the subtitle language

You can select the language when playing back a disc recorded with multi-lingual subtitles.

Press **SUB TITLE** repeatedly during playback until your desired language appears.

The on-screen display will disappear after a few seconds.

| 1/32 Eng |  |
|----------|--|
|          |  |
|          |  |
|          |  |



### Note:

Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the disc, or you may be unable to select the title, and a "title menu" may simply be called a "menu" or "title" in the instructions supplied with the disc.

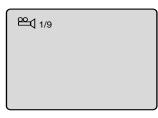
### Preparation:

- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

### **Changing Angles**

When playing back a disc recorded with multi-angle facility, you can change the angle that you are viewing the scene from.

1 Press **ANGLE** during playback. The current angle will appear.



2 Press ANGLE repeatedly until the desired angle is selected.

### **Title Selection**

Two or more titles are recorded on some discs. If the title menu is recorded on the disc, you can select the desired title.

1 Press **TITLE** during playback.

Title menu appears on the screen.

- Press TITLE again to resume playback at the scene when you pressed TITLE.
- **Press**  $\blacktriangle/\blacksquare$  or  $\blacktriangleleft/\blacktriangleright$  to select the desired title.
- Press ENTER or PLAY. The playback of the selected title will start.

### **DVD Menu**

# Some DVDs allow you to select the disc contents using the menu.

When you play back these DVDs, you can select the subtitle language and sound-track language,etc. using the DVD menu.

- Press **DVD MENU** during playback. The DVD menu appears on the screen.
  - Press **DVD MENU** again to resume playback at the scene when you pressed **DVD MENU**.

**Press**  $\blacktriangle/ \blacksquare$  or  $\blacktriangleleft / \blacksquare$  to select the desired item.

### Press ENTER.

The menu continues to another screen. Repeat steps **2** and **3** to set the item completely.

# Parental control

Some discs are specified not suitable for children. Such discs can be prevented from play back with the unit.



### Notes:

- If each setup (page 46~52) has been completed, the unit can always be worked under the same conditions (especially with DVD discs). Each setup will be retained in the memory if you turn the power off.
- · Depending on the discs, the unit cannot limit playback.
- Some discs may not be encoded with specific rating level information though its disc jacket says "adult". For those discs, the age restriction will not work.
- Do not forget the password. If you forget the password, contact customer service.

#### **Preparation:**

- Turn ON the TV and set to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

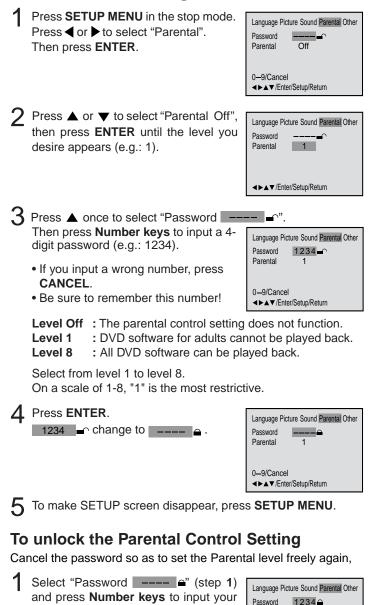
### Parental control setting

4-digit password.

Then press ENTER.

---- will appear.

parental control.



Parental

0-9/Cancel ▲▼/Enter/Setup/Return

 $m{2}$  If the input password was right, Language Picture Sound Parental Other Password You can move to "Parental 1"(e.g.) to Parental 1 input the desired level or to cancel

> 0-9/Cancel ▲▼/Enter/Setup/Return

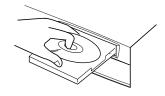
# Temporary disabling of rating level by DVD disc

Depending on the DVD disc, the disc may try to temporarily cancel the rating level that you have set. It is up to you to decide whether to cancel the rating level or not.



### **Preparation:**

- Turn ON the TV and set to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)
- 1 Load a DVD disc and press **PLAY** or **OPEN/CLOSE** (see page 37).



2 If the DVD disc has been designed to temporarily cancel the Rating level, the screen which follows the "Reading" screen will change, depending on which disc is played. If you select "YES" with **ENTER** key, "Your disc exceeds the parental control level 1."(e.g.) screen will then appear.



Your disc exceeds the parental control level 1.

Parental Control Level Cancel Picture

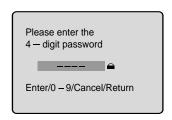
▲▼/Enter/Return

3 If you wish to cancel the set rating level temporarily, select "Parental Control Level" with ▲ or ▼, then press ENTER. If the 4-digits password at step 3 on page 46 has been set, the password entering screen will appear as shown in step 4 below. Alternatively, if the password has not been set, playback will commence. If you don't know (or have forgotten) the password, select "Cancel Picture".

The setting screen will disappear. Press  $\ensuremath{\text{OPEN/CLOSE}}$  to remove the disc.

4 Enter the password with Number buttons (0-9). Then press ENTER.

If you interrupt the entering, press **RETURN**.



#### Note:

This temporary cancellation of rating level will be kept until the disc is ejected. When the disc is ejected, the original rating level will be set again automatically. 5 Playback will commence if the entered password was correct.

# Setting menu language

You can select the language of the disc menu messages of DVDs.



#### **Preparation:**

- Turn ON the TV and set to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

| Press SETUP MENU in the stop<br>mode.<br>Press ◀ or ► to select<br>"Language".          | Language Picture Sound Parental Other   |
|---|---|
|   | <►▲▼/Enter/Setup/Return   |
| 2 Press ENTER.<br>Then press ▲ or ▼ to select<br>"Menu".                                | Language         Picture         Sound         Parental         Other           Menu         English         Subtitle         Automatic           Audio         English         English   |
|   | ▲►▲▼ /Enter/Setup/Return  |
| 3 Press ENTER.<br>Press ▲ or ▼ to select your<br>desired language, then press<br>ENTER. | Language       Picture       Sound       Parental       Other         Menu       English       English       English         Subtitle       Automatic       Francais         Audio       English       Espanol         Other       O       Other         0       -9/Cancel          ▲►▲▼/Enter/Setup/Return       Image: Constraint of the set of t |
| English, Francais, Espanol  |   |

The selected language is the first-priority Menu language.

- OTHER: Other language can be selected (See the Language Code List on page 54).
- **4** To make SETUP screen disappear, press **SETUP MENU**.

#### The same subtitle language can always be selected even if you replace the disc or turn the power off.



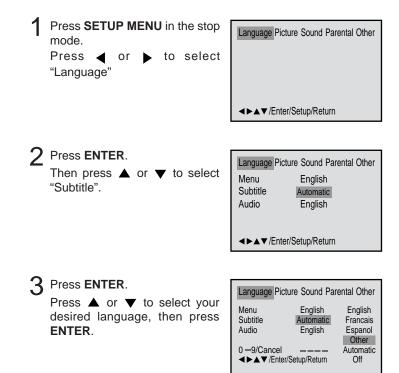
### Note:

If the selected language is not recorded on the disc, the first-priority language is selected.

# Setting subtitle language

#### **Preparation:**

- Turn ON the TV and set to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)



### English, Francais, Espanol

The subtitle is displayed with the selected language if it is recorded on the disc.

### **OTHER:**

If you want to select another language, enter the language code (see the language code list on page 54).

### **AUTOMATIC:**

- The unit will automatically select the same language in the AUDIO setting.
- When the unit selects the same language as the AUDIO, the subtitles will not appear during playback.
- . When you do not use the same language as the AUDIO, the subtitles will appear during playback.

### Off:

Subtitles do not appear.



**I** To make SETUP screen disappear, press **SETUP MENU**.

# Setting audio soundtrack language / Setting surround sound

# Setting audio soundtrack language

The same audio soundtrack language can always be selected by your unit even if you replace the disc or turn the power off.



### Notes:

- If the selected language is not recorded on the disc, the original language will be heard.
- The "SPATIALIZER N-2-2" is effective only for the sound of disc.

### To cancel Surround mode:

Follow the right steps **1~2**, then press **ENTER** to select the [Off] position.

### Preparation:

- Turn ON the TV and set to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

| Press SETUP MENU in the stop mode. Press ◀ or ▶ to select "Language"  | Language Picture Sound Parental Other  |  |  |  |  |
|---|--|--|--|--|--|
| 2 Press ENTER.<br>Then press ▲ or ▼ to select<br>"Audio".   | ↓ Enter/Setup/Return         Language       Picture Sound Parental Other         Menu       English         Subtitle       English         Audio       English                           |  |  |  |  |
| 3 Press ENTER.<br>Press ▲ or ▼ to select your<br>desired Audio Language, then<br>press ENTER.   | ▲▼/Enter/Setup/Return         Language Picture Sound Parental Other         Menu       English         Subtitle       English         Audio       English         Orginal       Original |  |  |  |  |
| <ul> <li>English, Francais, Espanol:<br/>The language you have selected will play if it is recorded on<br/>the disc.</li> <li>OTHER: If you want to select another language,<br/>enter the language code (See the Language Code List on page</li> </ul> |  |  |  |  |  |

- 54).ORIGINAL: The unit will select the first priority language of each disc.
- **4** To make SETUP screen disappear, press **SETUP MENU**.

### Setting surround sound

This DVD/VCR equipped with a "SPATIALIZER N-2-2". It can produce the effect of being in a cinema or a concert hall.

- During disc playback press A. MONITOR.
- Press > to select [On].

Spatializer On

# Setting the aspect ratio of TV screen

You can select the aspect ratio for your TV.

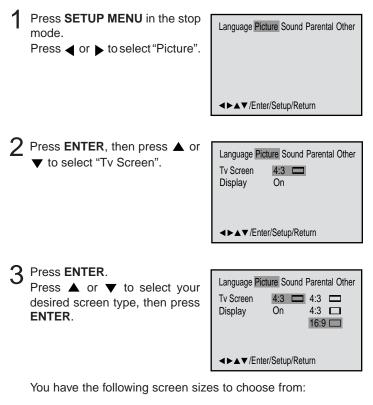


### Note:

If the DVD disc is not formatted in the pan & scan style, it displays 4:3 style.

#### **Preparation:**

- Turn ON the TV and set to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD. Then press DVD to select the DVD mode. (The DVD indicator will light.)



### 4:3 NORMAL TV

Select this mode when connecting to a conventional TV. When playing back a wide screen-DVD disc, it displays the wide picture with black bands at the top and bottom of screen.

### 4:3 PAN SCAN

It displays the wide picture on the whole screen with left and right edges automatically cut off.

### 16:9 WIDE SCREEN

Select this mode when connecting to a wide-screen TV. A wide screen picture is displayed full size.

**4** To make SETUP screen disappear, press **SETUP MENU**.

# Setting on Screen display / Status display of Disc

# On screen display can be switched on or off when you press the buttons.



#### **Preparation:**

- Turn ON the TV and set to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

| 1 | Press <b>SETUP MENU</b> in the stop<br>mode.<br>Press ◀ or ▶ to select "Picture" | Language Picture Sound Parental Other  |
|---|--|--|
| 2 | Press <b>ENTER</b> , then press ▲ or ▼ to select "Display".                      | ✓►▲▼ /Enter/Setup/Return          Language Picture Sound Parental Other         Tv Screen       4:3         Display       On |
| 3 | Press <b>ENTER</b> to select "On" or "Off".                                      | ▲►▲▼/Enter/Setup/Return          Language Picture Sound Parental Other         Tv Screen       4:3         Display       Off |
|   | <b>On:</b> On screen displays appears w  | ✓►▲▼/Enter/Setup/Return  |

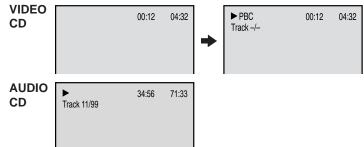
- **On:** On screen displays appears when you press the any buttons (factory setting).
- Off: On screen displays do not appear when you press any buttons except SETUP MENU, SEARCH MODE, PLAY MODE, MARKER and OSD.
- **4** To make SETUP screen disappear, press **SETUP MENU**.

### **Status display of Disc**

Each press of **OSD**, the status display of the disc will appear on the screen and change as follows.



To make status display disappear, press OSD again.



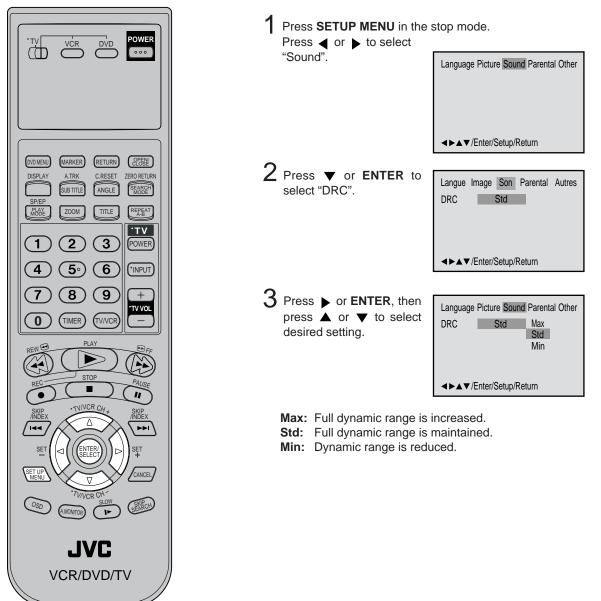
When you playback the CD disc, the status display will appear on the screen and continue displaying.

DRC (Dynamic Range Control) enables you to control the dynamic range so as to achieve a suitable sound for your equipment.

# **Dynamic Range Control**

#### Preparation:

- Turn ON the TV and set to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD. Then press DVD to select the DVD mode. (The DVD indicator will light.)



#### Notes:

- This function works only during playback of Dolby Digital recorded discs.
- The level of Dynamic Range Reduction may differ depending on DVD video disc.

Enter the appropriate code number for the initial settings "Audio", "Subtitle" and/or "Menu" (see pages 48-50).

| Language Name Code |      | Language Name Code |      | Language Name  | Code | e Language Name Code |      |
|--------------------|------|--------------------|------|----------------|------|----------------------|------|
| Abkhazian          | 1112 | Fiji               | 1620 | Lingala        | 2224 | Singhalese           | 2919 |
| Afar               | 1111 | Finnish            | 1619 | Lithuanian     | 2230 | Slovak               | 2921 |
| Afrikaans          | 1116 | French             | 1628 | Macedonian     | 2321 | Slovenian            | 2922 |
| Albanian           | 2927 | Frisian            | 1635 | Malagasy       | 2317 | Somali               | 2925 |
| Amharic            | 1123 | Galician           | 1722 | Malay          | 2329 | Spanish              | 1529 |
| Arabic             | 1128 | Georgian           | 2111 | Malayalam      | 2322 | Sundanese            | 2931 |
| Armenian           | 1835 | German             | 1415 | Maltese        | 2330 | Swahili              | 2933 |
| Assamese           | 1129 | Greek              | 1522 | Maori          | 2319 | Swedish              | 2932 |
| Aymara             | 1135 | Greenlandic        | 2122 | Marathi        | 2328 | Tagalog              | 3022 |
| Azerbaijani        | 1136 | Guarani            | 1724 | Moldavian      | 2325 | Tajik                | 3017 |
| Bashkir            | 1211 | Gujarati           | 1731 | Mongolian      | 2324 | Tamil                | 3011 |
| Basque             | 1531 | Hausa              | 1811 | Nauru          | 2411 | Tatar                | 3030 |
| Bengali; Bangla    | 1224 | Hebrew             | 1933 | Nepali         | 2415 | Telugu               | 3015 |
| Bhutani            | 1436 | Hindi              | 1819 | Norwegian      | 2425 | Thai                 | 3018 |
| Bihari             | 1218 | Hungarian          | 1831 | Oriya          | 2528 | Tibetan              | 1225 |
| Breton             | 1228 | Icelandic          | 1929 | Panjabi        | 2611 | Tigrinya             | 3019 |
| Bulgarian          | 1217 | Indonesian         | 1924 | Pashto, Pushto | 2629 | Tonga                | 3025 |
| Burmese            | 2335 | Interlingua        | 1911 | Persian        | 1611 | Turkish              | 3028 |
| Byelorussian       | 1215 | Irish              | 1711 | Polish         | 2622 | Turkmen              | 3021 |
| Cambodian          | 2123 | Italian            | 1930 | Portuguese     | 2630 | Twi                  | 3033 |
| Catalan            | 1311 | Japanese           | 2011 | Quechua        | 2731 | Ukrainian            | 3121 |
| Chinese            | 3618 | Javanese           | 2033 | Rhaeto-Romance | 2823 | Urdu                 | 3128 |
| Corsican           | 1325 | Kannada            | 2124 | Romanian       | 2825 | Uzbek                | 3136 |
| Croatian           | 1828 | Kashmiri           | 2129 | Russian        | 2831 | Vietnamese           | 3219 |
| Czech              | 1329 | Kazakh             | 2121 | Samoan         | 2923 | Volapük              | 3225 |
| Danish             | 1411 | Kirghiz            | 2135 | Sanskrit       | 2911 | Welsh                | 1335 |
| Dutch              | 2422 | Korean             | 2125 | Scots Gaelic   | 1714 | Wolof                | 3325 |
| English            | 1524 | Kurdish            | 2131 | Serbian        | 2928 | Xhosa                | 3418 |
| Esperanto          | 1525 | Laothian           | 2225 | Serbo-Croatian | 2918 | Yiddish              | 2019 |
| Estonian           | 1530 | Latin              | 2211 | Shona          | 2924 | Yoruba               | 3525 |
| Faroese            | 1625 | Latvian, Lettish   | 2232 | Sindhi         | 2914 | Zulu                 | 3631 |

Use the following check list for troubleshooting when you have problems with your unit. Consult your local dealer or service outlet if problems persist.

Be sure all connections are properly made when using with other units.

| SYMPTOMS   | POSSIBLE SOLUTIONS   | PAGE                          |  |
|--|--|-------------------------------|--|
| DVD/VCR  | ·  |                               |  |
| DVD/VCR does not operate.  | <ul> <li>Make sure the power cord is plugged in.</li> <li>Try another AC outlet.</li> <li>Power is off, check fuse or circuit breaker.</li> <li>Unplug unit, then plug it back in.</li> <li>Select the DVD or VCR mode before operating.</li> <li>Make sure TV/VCR/DVD switch has been slided to VCR/DVD.</li> </ul>   | 5<br>-<br>5<br>18,36<br>18,36 |  |
| No picture.  | <ul> <li>Antenna connection is not correct or antenna cable is disconnected.</li> <li>The video channel is not in the correct position or the TV is not set to the video channel 3 or 4.</li> <li>Check the unit is connected correctly.</li> <li>The video input selector of the TV is not set to VIDEO. Set to VIDEO (or equivalent).</li> <li>Channel is set to the external mode.</li> </ul> |                               |  |
| No sound.  | <ul> <li>Check the unit is connected correctly.</li> <li>Check the input selector of the amplifier is set properly.</li> <li>The unit is in the Special playback mode.</li> </ul>  | 12~17<br>_<br>26,38           |  |
| The remote control does not function.                                  | <ul> <li>Aim the remote control at the remote sensor.</li> <li>Operate within Approx. 5 Meters or reduce the light in the room.</li> <li>Clear the path of the beam.</li> <li>The batteries are weak. Replace the batteries.</li> <li>Check the batteries are inserted correctly.</li> <li>Check the frequency code is set correctly.</li> </ul>   |                               |  |
| The DVD-keys on the RCU of the other JVC RECEIVER/TV is not effective. | • This is not a defect. Since this unit is combined type of DVD and VCR, the remote code of DVD is individual.   | 10                            |  |
| No CATV reception  | <ul><li>Check all CATV connections.</li><li>Station or CATV system problems, try another station.</li></ul>  | 14,15                         |  |
| No POWER but a picture appears on the TV screen.                       | •During the Auto Clock operation, a video signal can be put out.<br>Please set the clock with Manual clock setting or wait until the<br>Auto Clock operation completed.  | 23                            |  |
| VCR  |  |                               |  |
| TV recording does not work.  | <ul> <li>The erase prevention tab of the video cassette is broken off.</li> <li>The unit is in the external input mode.</li> </ul>   | 24,28                         |  |
| Timer recording does not work.   | <ul> <li>The time is not set correctly.</li> <li>The recording start/end time is not set correctly.</li> <li>The TIMER has not been pressed (E) is not lit).</li> </ul>  | 21,23<br>31<br>31             |  |
| Noise bars on screen.  | <ul> <li>Tracking adjustment beyond range of automatic tracking circuit.<br/>Try Manual tracking adjustment.</li> <li>Video heads are dirty.</li> <li>The tape is worn or damaged.</li> </ul>  | 26<br>56<br>-                 |  |
| DVD  |  |                               |  |
| Display is not shown in your language.                                 | •Select proper language in the menu options.   | 36                            |  |
| Playback doesn't start.  | <ul> <li>No disc is inserted.</li> <li>The disc may be dirty. Clean up the disc.</li> <li>The unit cannot play DVD-ROMs, etc.</li> </ul>   | 37<br>35<br>35                |  |

# Problems and troubleshooting / Video head cleaning

| SYMPTOMS  | POSSIBLE SOLUTIONS  |       |  |
|---|---|-------|--|
| Stopping playback, search, slow-<br>motion play, repeat play, or program<br>play, etc. cannot be performed. | <ul> <li>Some discs may not do some of the functions.</li> </ul>  | _     |  |
| No 4:3 (16:9) picture   | <ul> <li>The setup does not match your TV.</li> </ul>   | 51    |  |
| No on-screen display  | • Select Display On.  | 52    |  |
| No surround sound   | The setup does not match your stereo system.  | 17    |  |
| The unit or remote operation key is not functioning.  | <ul> <li>Turn off the unit and unplug the AC power cord for several<br/>minutes, then replug it.</li> </ul> | -     |  |
| Playback does not start when the title is selected.   | Check the Parental setup.   | 46    |  |
| Audio soundtrack and/or subtitle language is not changed when you play back a DVD.                          | <ul> <li>Multilingual language is not recorded on the DVD disc.</li> </ul>                                  | 49,50 |  |
| No subtitle   | <ul><li>Some discs have no subtitles.</li><li>Subtitles are cleared. Press SUB TITLE.</li></ul>             | 49    |  |
| Angle cannot be changed.  | Multi-angles are not recorded on the DVD disc.  | 45    |  |
| appears on the screen.  | • The function is prohibited with the unit or the disc.   | -     |  |

### Video head cleaning

### Video head clogging

The video heads are the means by which the DVD/VCR reads the picture from the tape during playback. In the unlikely event that the heads become dirty enough to be clogged, no picture will be played back. This can easily be determined if, during playback of a known good tape, there is good sound, but no picture (picture is extremely snowy). If this is the case, have the DVD/VCR checked by qualified service personnel.





Good Picture

Snowy Picture

- **NOTES:** DO NOT ATTEMPT TO CLEAN THE VIDEO HEADS OR SERVICE THE UNIT BY REMOVING THE REAR COVER.
  - Video heads may eventually wear out and should be replaced when they fail to produce clear pictures.
  - To help prevent video head clogging, use only good quality VHS tapes. Discard worn out tapes.

### Notes

### Auto Clock Setting

Notes for Canadian customers regarding the clock feature of your DVD/VCR.

The XDS signals are carried only by certain broadcast television stations (for example, the signal is carried by most Public Broadcasting Service stations). You must be able to receive a station carrying the XDS signal to use the Auto Clock Setting to set your DVD/VCR's internal clock. If you live in an area that does not broadcast XDS signals, you must set the clock manually. Please see page 23 for instructions on how to manually set your DVD/VCR's clock.

### Special note for residents of Newfoundland:

The Auto Clock Setting cannot be used to set the DVD/VCR's internal clock to Newfoundland time. The time zone command does not include a setting for the Newfoundland time zone. Trying to use the Auto Clock Setting in the Newfoundland time zone could result in an incorrect time setting or no setting at all. Please set your DVD/ VCR's clock using the Manual Clock Setting.

| GENERAL                   |  |  |  |  |
|---------------------------|--|--|--|--|
| Power supply:             | AC 120V 60Hz   |  |  |  |
| Power consumption:        | Operation: 20W   |  |  |  |
|                           | Stand by: 3W   |  |  |  |
| Weight:                   | 9.9lbs (4.5 kg)  |  |  |  |
| Dimensions:               | Width : 16-15/16 inches (430 mm)                                 |  |  |  |
|                           | Height: 3-7/8 inches (99 mm)                                     |  |  |  |
|                           | Depth: 12-1/4 inches (311 mm)                                    |  |  |  |
| Inputs/Outputs:           |  |  |  |  |
| Video:                    | In: 1Vp-p/75 ohm   |  |  |  |
| 14001                     | Out: 1Vp-p/75 ohm  |  |  |  |
| Audio:                    | In: -8 dBm/50K ohm   |  |  |  |
| / totalo:                 | Out: -8 dBm/1K ohm   |  |  |  |
| Antenna:                  | UHF/VHF IN/OUT: 75 ohm coaxial                                   |  |  |  |
| Hi-Fi Frequency Response: |  |  |  |  |
| Hi-Fi Dynamic Range:      | More than 90dB   |  |  |  |
| TII-FI Dynamic Range.     |  |  |  |  |
| VCR section               |  |  |  |  |
|                           | 4 Deterry Lleade   |  |  |  |
| Video Head:               | 4 Rotary Heads   |  |  |  |
| Audio Track:              | Hi-Fi Sound - 2 Tracks / MONO Sound - 1 Track                    |  |  |  |
| Tuner:                    | 181 Channel Freq. Synthesized                                    |  |  |  |
|                           | VHF 2-13   |  |  |  |
|                           | UHF 14-69  |  |  |  |
|                           | CATV 14-36 (A)-(W)   |  |  |  |
|                           | 37-59 (AA)-(WW)  |  |  |  |
|                           | 60-85 (AAA)-(ZZZ)  |  |  |  |
|                           | 86-94 (86)-(94)  |  |  |  |
|                           | 95-99 (A-5)-(A-1)  |  |  |  |
|                           | 100-125 (100)-(125)  |  |  |  |
|                           | 01 (5A)  |  |  |  |
| RF Channel Output:        | Channel 3 or 4, Switchable                                       |  |  |  |
| F.FWD/REW Time:           | Approx. 1 minute 48 seconds (with T-120 Cassette Tape) (at+25°C) |  |  |  |
|                           |  |  |  |  |
| DVD section               |  |  |  |  |
| Signal system:            | NTSC   |  |  |  |
| Applicable disc:          | DVD (12cm, 8cm), CD (12cm, 8cm)                                  |  |  |  |
| Audio characteristics:    | DVD: 4Hz - 22KHz   |  |  |  |
| Frequency response:       | CD: 4Hz - 20KHz  |  |  |  |
| S/N Ratio:                | 90dB   |  |  |  |
| Harmonic distortion:      | 0.02%  |  |  |  |
| Wow and flutter:          | Below Measurable Level   |  |  |  |
| Dynamic range:            | 90dB   |  |  |  |
| Output:                   | Video : (RCA) 1 Vp-p/75ohm                                       |  |  |  |
|                           | Audio : (RCA) -8 dBm/1Kohm                                       |  |  |  |
|                           | Digital Audio : 0.5Vp-p 75 ohm                                   |  |  |  |
| Pickup:                   | CD: Wavelength: 775 - 805 nm                                     |  |  |  |
|                           | Maximum output power: 0.5 mW                                     |  |  |  |
|                           | DVD : Wavelength: 640 - 660 nm                                   |  |  |  |
|                           | Maximum output power: 1.0 mW                                     |  |  |  |
|                           |  |  |  |  |
| ACCESSORIES:              | Remote control x 1   |  |  |  |
|                           | Batteries (2 x AA)   |  |  |  |
|                           | 75 ohm Coaxial Cable x 1   |  |  |  |
|                           | AUDIO/VIDEO Cable x 1  |  |  |  |
|                           |  |  |  |  |
|                           |  |  |  |  |

### 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 SERVICE & ENGINEERING COMPANY OF AMERICA

DIVISION OF JVC AMERICAS CORP.

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 the key to maintaining the high level 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. 10 New Maple Avenue Pine Brook, NJ 07058-9641

### ACCESSORIES

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

### 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.

# WARRANTY (Only in U.S.A.)

|   |   |  |  | (Only                                  | ш 0.0.д.)                                 |
|---|---|--|--|--|---|
| JVC COMPANY OF AMERICA warrant<br>ORIGINAL PURCHASER AT RETAIL to<br>date of original retail purchase for the p   | o be FREE FROM  | all parts thereof, ex<br>DEFECTIVE MATE                              | RIALS AND                                | forth below                            |   |
|   | PARTS <b>1</b> YR   | LABOR<br><b>90</b> DAYS  |  |  |   |
| THIS LIMITED WARRANTY IS VALID O<br>IN COMMONWEALTH OF PUERTO RI  |   | (50) UNITED STATE  | S, THE DIST                              | FRICT OF C                             | OLUMBIA AND                               |
| WHAT WE WILL DO:<br>If this product is found to be defective, J'<br>repair and replacement services shall b<br>centers. Parts used for replacement are<br>thereof may be brought to a JVC authori<br>size 25 inches and above which are cov                           | be rendered by JV<br>warranted only for<br>zed service center<br>vered on an in-hom     | C during normal bus<br>the remainder of the<br>on a carry-in basis e | siness hours<br>Warranty Pe              | at JVC aut<br>eriod. All pro           | horized service ducts and parts           |
| WHAT YOU MUST DO FOR WARRA<br>Return your product to a JVC authorized<br>service center, please call toll free: (800  | d service center wit  | h a copy of your bill o  | of sale. For y                           | our nearest                            | JVC authorized                            |
| If service is not available locally, box the of your bill of sale plus a letter of explan   | product carefully, p<br>pation of the problem   | m to the nearest JVC   |  |  |   |
| location of which will be given to you by<br>If you have any questions concerning yo<br>WHAT IS NOT COVERED:  |   |  | ustomer Rela                             | ations Depar                           | tment.                                    |
| <ol> <li>This limited warranty provided by JVC of 1. Products which have been subject to installation, lack of reasonable care, JVC to render such service, or if affinumber has been altered, tampered</li> <li>Initial installation and installation and</li> </ol> | abuse, accident, a<br>or if repaired or se<br>xed to any attachm<br>with, defaced or re | rviced by anyone of<br>nent not provided wi<br>moved;                | ther than a s                            | ervice facilit                         | y authorized by                           |
| <ol> <li>Operational adjustments covered in t</li> <li>Damage that occurs in shipment, due</li> <li>Signal reception problems and failure</li> <li>Video Pick-up Tubes/CCD Image Sen</li> <li>Accessories;</li> </ol>   | e to act of God, and<br>es due to line powe<br>sor, Cartridge, Stylu                    | d cosmetic damage;<br>er surge;<br>is (Needle) are cover             | red for 90 day                           | rs from the da                         | 0.  |
| 8. Batteries (except that Rechargeable<br>There are no other express warranties   |   | -  | the date of p                            | ourchase);                             |   |
| THE DURATION OF ANY IMPLIED WA<br>IS LIMITED TO THE DURATION OF TH  | RRANTIES INCLU  | DING THE IMPLIED   | WARRANT                                  | Y OF MERC                              | CHANTABILITY,                             |
| JVC SHALL NOT BE LIABLE FOR THE I<br>DAMAGES, WHETHER DIRECT, INCIDI<br>TO TAPES, RECORDS OR DISCS) RE<br>BREACH OF THIS WARRANTY. ALL E<br>MERCHANTABILITY AND FITNESS F<br>SET FORTH ABOVE.   | ENTAL OR CONSE<br>SULTING FROM T<br>XPRESS AND IMP                                      | QUENTIAL (INCLUI<br>HE USE OF THIS F<br>LIED WARRANTIE               | DING, WITHO<br>PRODUCT, O<br>S, INCLUDIN | DUT LIMITAT<br>DR ARISING<br>NG THE WA | FION, DAMAGE<br>OUT OF ANY<br>RRANTIES OF |
| Some states do not allow the exclusion warranty lasts, so these limitations or ex you may also have other rights which var  | clusions may not a  | pply to you. This wa   |  |  |   |
| JVC COMPANY OF AMER<br>DIVISION OF JVC AMERI  |   |  |  | Valley Road<br>ew Jersey 0             |   |
| REFURBISHED PRODUCTS CARRY<br>DETAILS OF REFURBISHED PRODU<br>WARRANTY INFORMATION PACKAG   | JCT WARRANTY  | PLEASE REFER   | TO THE RE                                |  |   |
| For customer use:<br>Enter below the Model No. an   | nd Serial No. whic  | h is located either  | on the rear,                             | bottom or :                            | side of the                               |

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.:

Purchase date:

Serial No.:

Name of dealer:





