JVC

DVD PLAYER
VIDEO CASETTE
RECORDER
USER'S GUIDE

VHS SQPB
4 HEAD
19μm HEAD
Hi-Fi

For model:
HR-XVC1UJ

DVD **VIDEO** ™

COMPACT disc DIGITAL VIDEO

COMPACT disc DIGITAL AUDIO

JVC
VCR/DVD/TV

DOLBY DIGITAL

dts DIGITAL OUT

SPATIALIZER ®
3-D STEREO
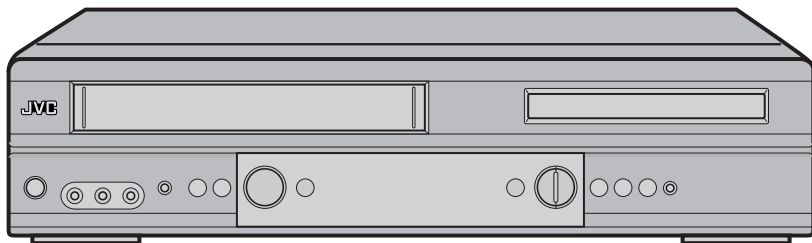
For Customer Use:

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.

LPT0708-001A

Dear Customer,
Thank you for purchasing the JVC DVD player video cassette recorder. Before use, please read the safety information and precautions to ensure safe use of your new DVD/VCR.
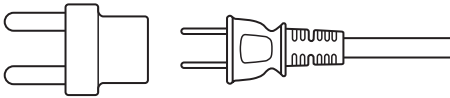
CAUTIONS
WARNING: DANGEROUS VOLTAGE INSIDE
WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

The POWER (⏻)/l button does not completely shut off mains power from the unit, but switches operating current on and off.
"(⏻)" shows electrical power standby and " l " shows ON.

This unit is produced to comply with Standard IEC 60065.

POWER SYSTEM:
This set operates on voltage of AC 110 – 220V~, 50/60 Hz with automatic switching.

Use the conversion plug (provided) depending on the type of your AC WALL outlet.

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

IMPORTANT:
It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.

CAUTION
- When you are not using the DVD/VCR for a long period of time, it is recommended that you disconnect the power cord from the AC outlet.
- Dangerous voltage inside. Refer internal servicing to qualified service personnel. To prevent electric shock or fire hazard, remove the power cord from the AC outlet prior to connecting or disconnecting any signal lead or aerial.
- Changes or modifications not approved by JVC could void user's authority to operate the equipment.

VHS SQPB HQ

- Cassettes marked "VHS" (or "S-VHS") can be used with this DVD/VCR. 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.

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When the equipment is installed in a cabinet or a shelf, make sure that it has sufficient space on all sides to allow for ventilation (10 cm or more on both sides, on top and at the rear).

When discarding batteries, environmental problems must be considered and the local rules or laws governing the disposal of these batteries must be followed strictly.

Failure to heed the following precautions may result in damage to the DVD/VCR, Remote or video cassette.
1. DO NOT place the DVD/VCR ...
   ... in an environment prone to extreme temperatures or humidity.
   ... in direct sunlight.
   ... in a dusty environment.
   ... in an environment where strong magnetic fields are generated.
   ... on a surface that is unstable or subject to vibration.
2. DO NOT block the DVD/VCR's ventilation openings or holes.
   (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
3. DO NOT place heavy objects on the DVD/VCR or Remote.
4. DO NOT place anything which might spill on top of the DVD/VCR or Remote.
   (If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)
5. DO NOT expose the apparatus to dripping or splashing.
6. DO NOT use this equipment in a bathroom or places with water. Also DO NOT place any containers filled with water or liquids (such as cosmetics or medicines, flower vases, potted plants, cups, etc.) on top of this unit.
7. DO NOT place any naked flame sources, such as lighted candles, on the apparatus.
8. AVOID violent shocks to the DVD/VCR during transport.

MOISTURE CONDENSATION

Moisture in the air will condense on the DVD/VCR when you move it from a cold place to a warm place, or under extremely humid conditions—just as water droplets form on the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions where condensation may occur, keep the DVD/VCR's power turned on for a few hours to let the moisture dry.

How to use the Remote

Before use, insert two AAA size batteries into the Remote with the polarity ($\oplus$ and $\ominus$) matched correctly as indicated on the battery compartment or on the lid.
● Point the Remote toward the remote sensor on the target component.
● The maximum operating distance of the remote control is about 5 m.
NOTE:
If the Remote does not work properly, remove its batteries, wait for a few seconds, replace the batteries and then try again.

Video heads cleaning

The heads get dirty in the following cases:
● in an environment prone to extreme temperature or humidity.
● in a dusty environment
● flaw, dirt or mold on video tapes
● continuous usage for a long time
Use a dry cleaning cassette — TCL-2 — when:
● Rough, poor picture appears while a tape is played back.
● The picture is unclear or no picture appears.

Important Warning

CAUTION:
A DVD/VCR IS A CLASS 1 LASER PRODUCT. HOWEVER THIS DVD/VCR USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE PLAYER CORRECTLY AS INSTRUCTED.

THE FOLLOWING CAUTION LABEL IS LOCATED ON THE REAR PANEL OF THE DVD/VCR.

CLASS 1
LASER PRODUCT
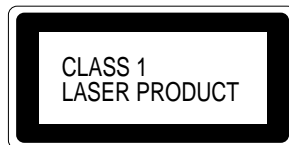
WHEN THIS DVD/VCR IS PLUGGED INTO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS DVD/VCR.

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

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

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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.

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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 3-D STEREO". 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.

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Contents

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Parts and functions

Front

VCR/DVD mode selector button

Cassette Loading Slot

EJECT button

OPEN/CLOSE button

PLAY button

STOP button

Disc tray

POWER
button

AUDIO (L/R)/
VIDEO IN jacks

VCR indicator

CHANNEL +/– buttons

Remote sensor

REW (Rewind) button

FF (Fast Forward) button

DVD indicator

REC button

Rear

AC power cord

DVD OPTICAL
DIGITAL AUDIO
OUT jack

DVD COAXIAL DIGITAL
AUDIO OUT jack

DVD AUDIO (L/R) OUT jacks

DVD S-VIDEO OUT jack

DVD COMPONENT OUT jacks

DVD/VCR common AUDIO (L/R)/VIDEO OUT
jacks

3/4 Channel Selector Switch

RF IN jack

RF OUT jack

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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)
⑦	10 : 00	Clock display (colon[:] flashes)
	01 : 00	Counter display by hour/minute at VCR/DVD / by minute/second at CD
	2	Track number display for CD
	C002	TV channel display for VCR
	C036	CATV channel display
	L	External input display
⑧	⊡	Timer recording display
⑨	⟨⊐⊏⟩	Video tape is in the unit
⑩	TRK	Track display for CD
⑪	REC	Normal recording display (flashes during Instant Timer Recording - ITR)

Explanation for On-Screen-Symbol:

▶ Playback

■ Stop

▮▮ Still picture

▮▶ 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

🔍 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.

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Remote control

		Page
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MARKER	Index for DVD	43
RETURN	Remove DVD set up menu	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 00:00	27
SEARCH MODE	Locating desired scene	39
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PLAY MODE	Select playback mode	40,41
ZOOM	Zoom (for DVD playback)	39
TITLE	Select title of a DVD disc	45
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	Input setting	39,41
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TV POWER	Turn the connected TV on or off	10
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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
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INDEX ⏮/⏭	Search for the INDEX mark of a tape	27
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▲ / ▼	Cursor buttons	
SET –/+	Setting buttons	31,32
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◄ / ►	Cursor buttons - To move Up in the VCR menu you press the ►. To move Down in the VCR menu you press the ◄.	
ENTER	Enter information in the menu	
SELECT	Select option in the menu	
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SLOW	Slowmotion playback	26,38
SKIP SEARCH	Skip the unwanted short material of a tape	26

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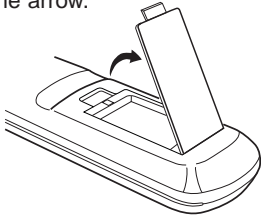
NOTE:
- It's not possible to operate a unit not equipped with a remote sensor.
- This Remote can control a JVC TV only.
- When you operate the VCR or DVD, the **TV/VCR/DVD** switch must be slided to VCR/DVD again. Otherwise the DVD/ VCR may not operate properly.
- Since this unit is combined type of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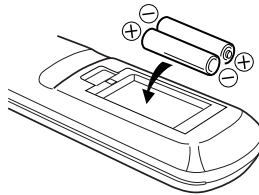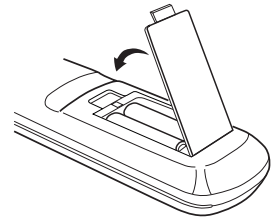
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Inserting Batteries

1 Open the battery compartment cover in the direction of the arrow.

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

3 Replace the compartment cover.

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.
4. 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.

Approx. 5 meters

30° 30°
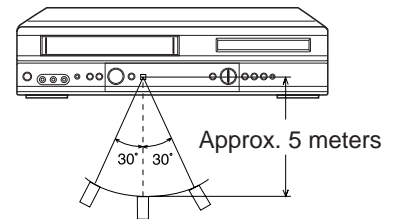
Change the custom code for remote control

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 (" ┗┓ "). 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-" ⊟ ".

Example: Change frequency to ┗┓

Remote control:
While holding **VCR**, press **2**(code: b) of **Number keys**. (in case of code: A, press **1**)
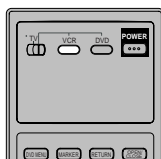
DVD/VCR:
In the POWER off mode, press and hold **PLAY** for more than 5 seconds. "b" will appear on the display and then disappear after approx. 4 seconds.
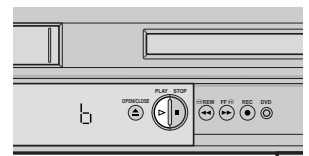
NOTE:
- If the remote control has been set to b, the DVD/VCR also must be set to b. Otherwise, the DVD/VCR can not be operated with this remote control.
- To reset to "A", repeat above procedure. However press **1** instead of **2**.

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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.

1 **Combination VHF/UHF Antenna with 75 ohm Coaxial Cable**

DVD/VCR

IN (ANT.)

OUT (TV)

75 ohm Coaxial Cable

2 **Combination VHF/UHF Antenna with 300 ohm Twin Lead (Flat) Wire**

DVD/VCR

Matching Transformer
300 ohm Input
75 ohm output
(not supplied)

IN (ANT.)

OUT (TV)

300 ohm Twin Lead (Flat) Wire

3 **Separate VHF and UHF Antennas**

DVD/VCR

Combiner
75/300 ohm Inputs
75 ohm output
(not supplied)

VHF   UHF

300 ohm Twin Lead (Flat) Wire

IN (ANT.)

OUT (TV)

75 ohm Coaxial Cable

NOTE: If both VHF and UHF antennas have 300 ohm twin lead (flat) wires, use a combiner having two 300 ohm inputs and one 75 ohm output.

NOTES: • A clear picture will not be obtained by the DVD/VCR unless the antenna signal is good. Connect the 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.

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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.

TV

VHF/UHF IN

75 ohm Coaxial Cable (supplied)

NOTE: If a VHF or UHF antenna is used, set the TV/CATV menu option to the "TV" mode.

TV with single 75 ohm VHF/UHF antenna input

TV

Splitter
75 ohm Input
75/300 ohm outputs
(not supplied)

⌐UHF⌐

VHF

75 ohm Coaxial Cable
(supplied)

NOTE: If a VHF or UHF antenna is used, set the TV/CATV menu option to the "TV" mode.

TV with 300 ohm UHF and 75 ohm VHF antenna inputs

TV

Splitter
75 ohm Input
300 ohm outputs
(not supplied)

⌐UHF⌐

⌐VHF⌐

75 ohm Coaxial Cable
(supplied)

NOTE: If a VHF or UHF antenna is used, set the TV/CATV menu option to the "TV" mode.

TV with 300 ohm UHF and 300 ohm VHF antenna inputs

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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.

1

DVD/VCR

TV

Incoming Cable

IN (ANT.)

OUT (TV)

VHF/UHF IN (ANT)

ALLOWS: * Recording of nonscrambled channels.
* Use of the programmable timer.
* Recording of one channel while watching another.

2

DVD/VCR

Converter/ Descrambler

TV

Incoming Cable

IN (ANT.)

OUT (TV)

VHF/UHF IN (ANT)

ALLOWS: * Recording of channels through the converter box (scrambled and unscrambled).
* Using the programmable timer to record only the channel selected at the converter box.

PREVENTS: * Recording one channel while watching another.
* Using the DVD/VCR tuner to select channels.

NOTE:

To record from converter/descrambler, DVD/VCR tuner must be tuned to the converter output channel, usually channel 3 or 4.

3

DVD/VCR

TV

Incoming Cable

IN (ANT.)

OUT (TV)

Converter/Descrambler

VHF/UHF IN (ANT)

ALLOWS: * Recording of nonscrambled channels.
* Use of the programmable timer.
* Recording an unscrambled channel while watching any channel selected at the converter box.

PREVENTS: Recording scrambled channels.

NOTE:
If you are playing a tape or using the tuner built into the DVD/VCR, the converter must be set to the video channel output of the DVD/VCR (either 3 or 4).

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.

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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 infor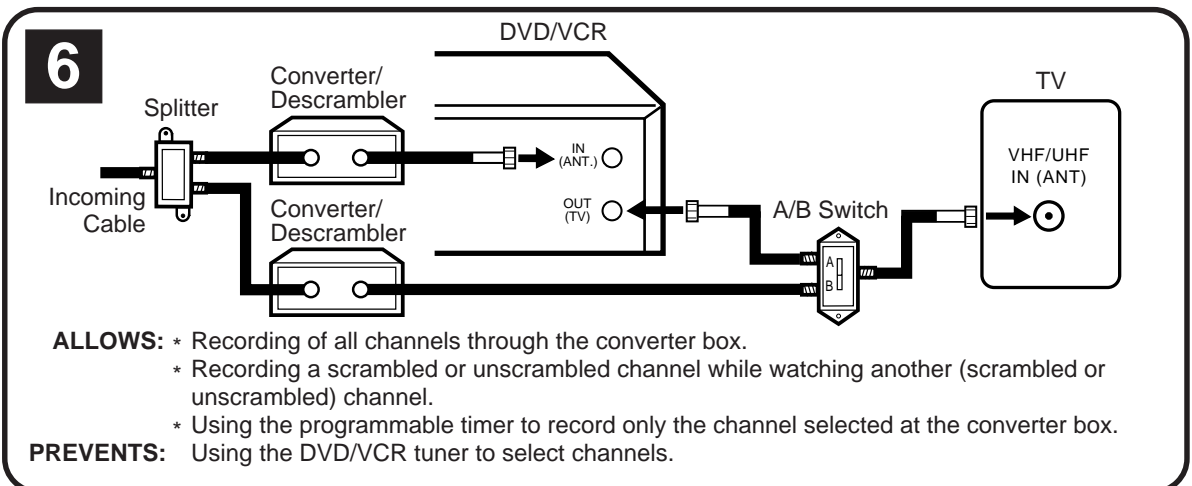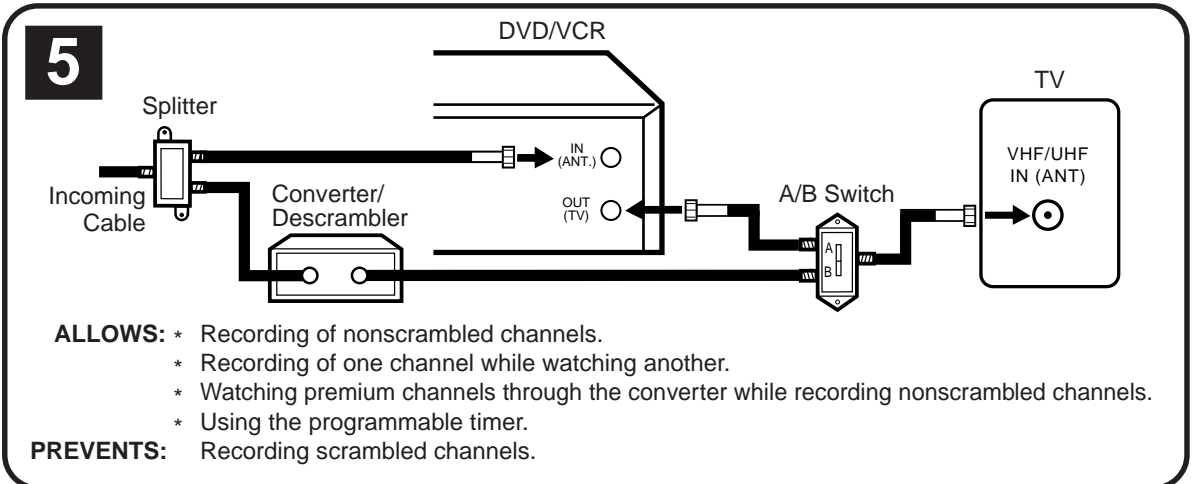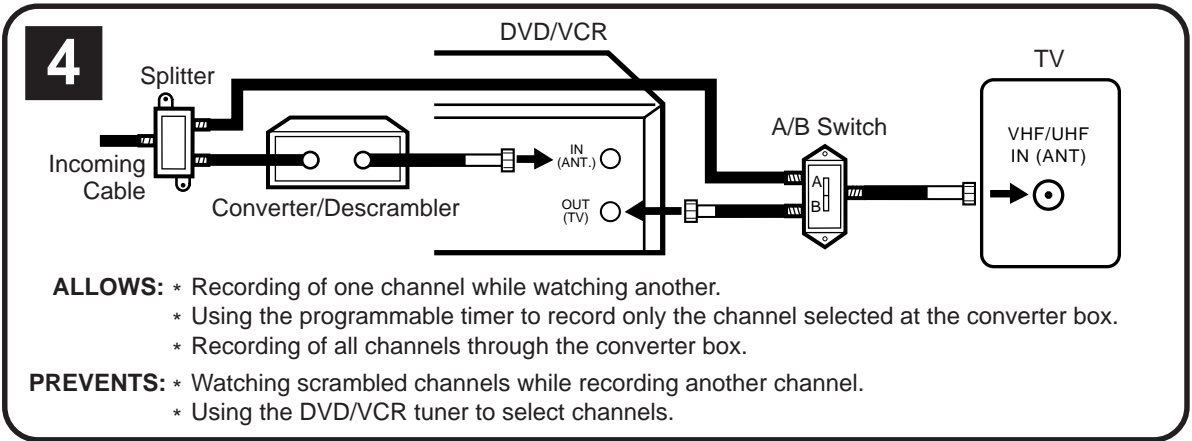mation concerning connection to their descrambler equipment. There are many ways to connect your DVD/VCR to a cable system. Below are six common methods of connection.

4

DVD/VCR

Splitter

Incoming Cable

Converter/Descrambler

IN (ANT.)

OUT (TV)

A/B Switch

TV

VHF/UHF IN (ANT)

ALLOWS: * Recording of one channel while watching another.
* Using the programmable timer to record only the channel selected at the converter box.
* Recording of all channels through the converter box.

PREVENTS: * Watching scrambled channels while recording another channel.
* Using the DVD/VCR tuner to select channels.

5

DVD/VCR

Splitter

Incoming Cable

Converter/ Descrambler

IN (ANT.)

OUT (TV)

A/B Switch

TV

VHF/UHF IN (ANT)

ALLOWS: * Recording of nonscrambled channels.
* Recording of one channel while watching another.
* Watching premium channels through the converter while recording nonscrambled channels.
* Using the programmable timer.

PREVENTS: Recording scrambled channels.

6

DVD/VCR

Splitter

Converter/ Descrambler

Incoming Cable

Converter/ Descrambler

IN (ANT.)

OUT (TV)

A/B Switch

TV

VHF/UHF IN (ANT)

ALLOWS: * Recording of all channels through the converter box.
* Recording a scrambled or unscrambled channel while watching another (scrambled or unscrambled) channel.
* Using the programmable timer to record only the channel selected at the converter box.

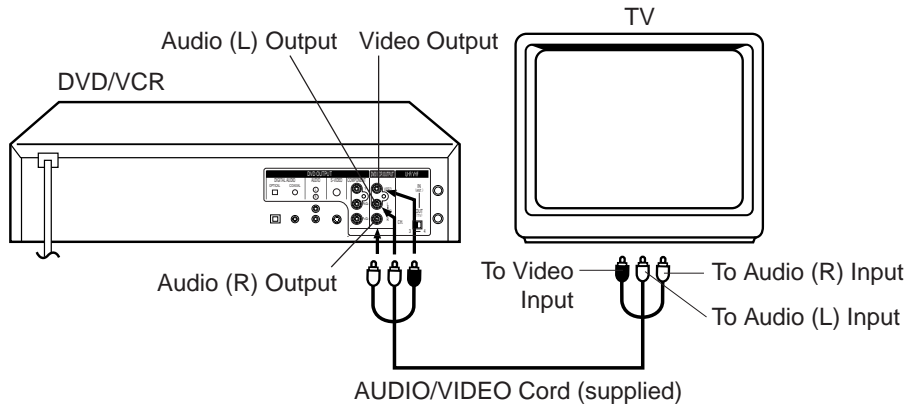**PREVENTS:** Using the DVD/VCR tuner to select channels.
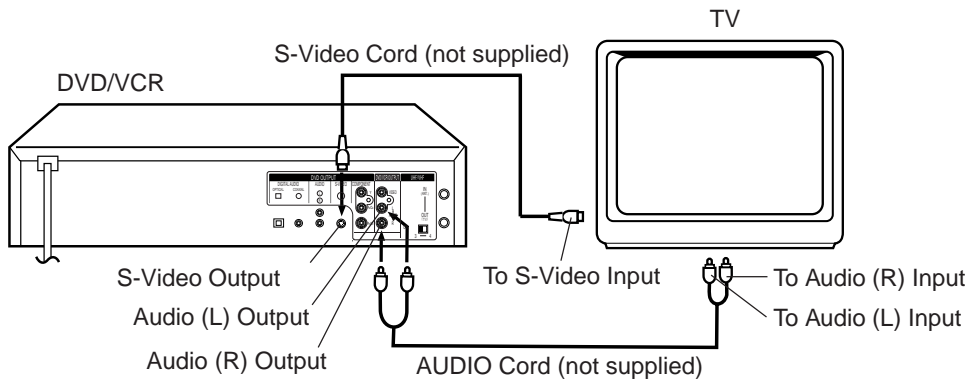
Playback Connection

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.

TV

Audio (L) Output   Video Output

DVD/VCR

Audio (R) Output

To Video Input   To Audio (R) Input   To Audio (L) Input

AUDIO/VIDEO Cord (supplied)

Connect to a TV with S-Video Output

S-Video Cord (not supplied)

TV

DVD/VCR

S-Video Output
Audio (L) Output
Audio (R) Output

To S-Video Input   To Audio (R) Input   To Audio (L) Input

AUDIO Cord (not supplied)

Connect to a BS TUNER

VHF/UHF Antenna

Satellite Antenna

75 ohm Coaxial Cable (not supplied)   To ANT. Input   TV

ANT. Input   DVD/VCR

BS Tuner

ANT. output   ANT. Output

Video Output
Audio (L) Output
Audio (R) Output

75 ohm Coaxial Cable (supplied)

To ANT. Input

AUDIO/VIDEO Cord (supplied)

16

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.

COMPONENT VIDEO Cord (not supplied)

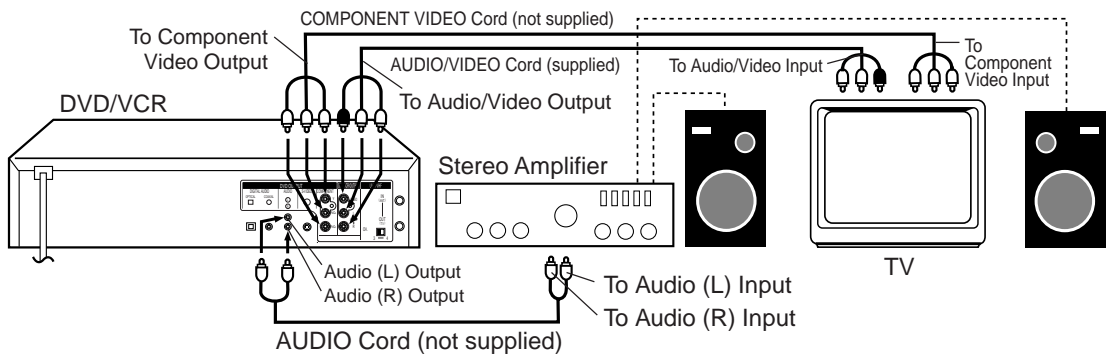To Component Video Output

AUDIO/VIDEO Cord (supplied)   To Audio/Video Input   To Component Video Input

DVD/VCR

To Audio/Video Output

Stereo Amplifier

Audio (L) Output
Audio (R) Output

To Audio (L) Input
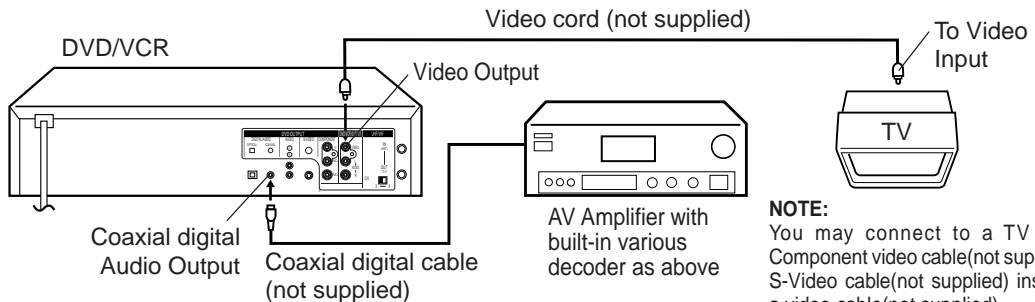To Audio (R) Input

TV

AUDIO Cord (not supplied)

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**

Video cord (not supplied)   To Video Input

DVD/VCR

Video Output

TV

Coaxial digital Audio Output   Coaxial digital cable (not supplied)

AV Amplifier with built-in various decoder as above

NOTE:
You may connect to a TV with a Component video cable(not supplied) or S-Video cable(not supplied) instead of a video cable(not supplied).

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.

NOTE:
- 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.

17

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).

NOTE:
- **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.

1 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**.

5 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.
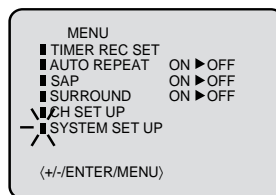
For a push-button TV tuner
If CH 3 or 4 corresponding to the video channel cannot be tuned on your TV, proceed as follows: set the VCR 3/4 channel selector and the TV to CH 3 or 4, play back a prerecorded tape and tune the TV to receive a sharp color picture from the video cassette recorder. Refer to your TV owner's manual for details.
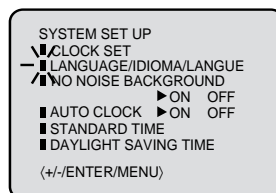
Setting the language

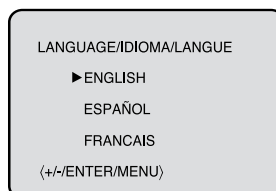**You can choose from three different languages (English, French and Spanish) for the on-screen displays.**

1 Press **SETUP MENU**,
If you use the unit for the first time and press **SETUP MENU**, instead of the main menu screen on the right the SYSTEM SET UP menu screen in step **2** may appear.

```
          MENU
 ▌ TIMER REC SET
 ▌ AUTO REPEAT    ON ▶OFF
 ▌ SAP            ON ▶OFF
 ▌ SURROUND       ON ▶OFF
 ▙ CH SET UP
 ─▌ SYSTEM SET UP
 ⟨+/-/ENTER/MENU⟩
```

2 Press ◀ or ▶ to select the "LANGUAGE" option, then press **ENTER**.

```
 SYSTEM SET UP
 ▙ CLOCK SET
 ─▌ LANGUAGE/IDIOMA/LANGUE
 ▟▌ NO NOISE BACKGROUND
              ▶ON    OFF
 ▌ AUTO CLOCK  ▶ON   OFF
 ▌ STANDARD TIME
 ▌ DAYLIGHT SAVING TIME
 ⟨+/-/ENTER/MENU⟩
```

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

```
 LANGUAGE/IDIOMA/LANGUE
     ▶ENGLISH
      ESPAÑOL
      FRANCAIS
 ⟨+/-/ENTER/MENU⟩
```

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

18

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.

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

TV/CATV Selection

1 Press **SETUP MENU**. The VCR menu screen will appear. Press ◀ or ▶ to select CH SET UP, then press **ENTER**.

2 Press ◀ or ▶ to select the "TV/CATV" option.

```
CH SET UP

   ▶TV   CATV
   AUTO CH MEMORY
   ADD/DELETE


⟨+/-/ENTER/MENU⟩
```

3 Then press **ENTER** to select the TV or CATV mode. The arrow indicates the selected mode.

```
CH SET UP

   TV  ▶CATV
   AUTO CH MEMORY
   ADD/DELETE


⟨+/-/ENTER/MENU⟩
```

TV   - VHF/UHF channels
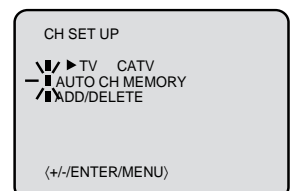CATV - CABLE TV channels
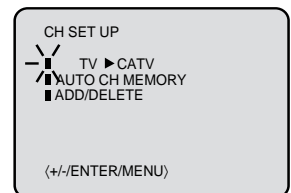
4 Press **SETUP MENU** until the menu screen is cleared.

Setting channels automatically

The VCR can receive a maximum of 181 channels by presetting the channels into memory.

1 Repeat above step **1** and press ◀ or ▶ to select AUTO CH MEMORY.

```
CH SET UP

   ▶TV   CATV
   AUTO CH MEMORY
   ADD/DELETE


⟨+/-/ENTER/MENU⟩
```

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

```
                    CH 002
```

NOTE:
You can not select "CH SET UP" if you set the channel to "L".

19
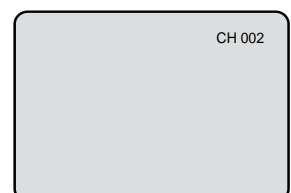
# To ADD/DELETE channels / Noise elimination

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)

1 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⟩
```
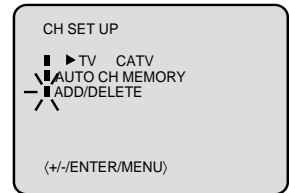
2 **To Add or Delete desired channels**

   1. Press **Number keys** or ◀ / ▶ to select a channel number you want to add or delete.
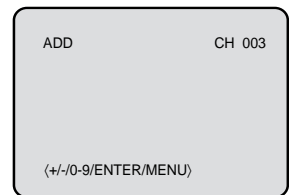
   2. **To add channels**
      Press **ENTER** until "ADD" appears on the screen to set to add the unmemorized channel.

```
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.
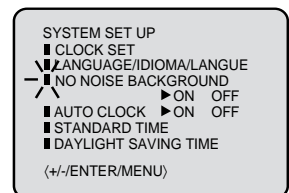
   3. Repeat 1 to 2 to add or delete other channel.

3 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".

1 Repeat the steps **1~2** on page 18 and press ◀ or ▶ to select NO NOISE BACKGROUND.

2 Press **ENTER** to select the ON position.

```
SYSTEM SET UP
  ┃CLOCK SET
  ╲┃╱LANGUAGE/IDIOMA/LANGUE
 ─ ┃NO NOISE BACKGROUND
  ╱╲       ▶ON   OFF
  ┃AUTO CLOCK ▶ON   OFF
  ┃STANDARD TIME
  ┃DAYLIGHT SAVING TIME

  ⟨+/-/ENTER/MENU⟩
```

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

20

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.

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)

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.
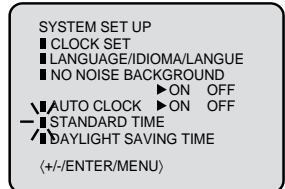To correct the situation:**

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)

1 Press **SETUP MENU**. The VCR menu screen will appear. Press ◀ or ▶ to select the SYSTEM SET UP menu, then press **ENTER**.

2 Press ◀ or ▶ to select the "STANDARD TIME" option, then press **ENTER**.

```
SYSTEM SET UP
 CLOCK SET
 LANGUAGE/IDIOMA/LANGUE
 NO NOISE BACKGROUND
              ▶ON   OFF
 AUTO CLOCK  ▶ON   OFF
 STANDARD TIME
 DAYLIGHT SAVING TIME
〈+/-/ENTER/MENU〉
```

3 Press ◀ or ▶ to select your Time Zone, then press the **ENTER**.

```
STANDARD TIME

 ▶ATLANTIC    EASTERN
  CENTRAL     MOUNTAIN
  PACIFIC     ALASKA
  HAWAII
  AUTO

〈+/-/ENTER/MENU〉
```

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

NOTE:
- 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.

JVC
VCR/DVD/TV

Auto clock setting

Daylight saving time setting

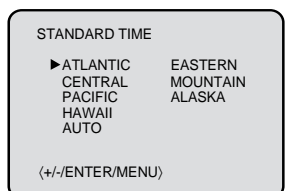**You can set the Daylight saving time automatically or manually.**

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 ◀ or ▶ to select DAYLIGHT SAVING TIME, then press **ENTER**.

```
SYSTEM SET UP
▐ CLOCK SET
▐ LANGUAGE/IDIOMA/LANGUE
▐ NO NOISE BACKGROUND
        ▶ ON    OFF
▐ AUTO CLOCK  ▶ ON    OFF
▐ STANDARD TIME
▐ DAYLIGHT SAVING TIME

⟨+/-/ENTER/MENU⟩
```

2 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)

```
DAYLIGHT  SAVING  TIME

        ON

        OFF

      ▶ AUTO

⟨+/-/ENTER/MENU⟩
```

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**.

JVC

VCR/DVD/TV

22

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.
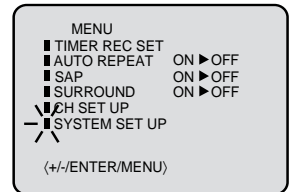
Preparation:
• Turn ON the TV and set to the video input mode.
• Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **VCR** to select the VCR mode. (The VCR indicator will light)
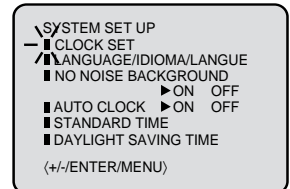
EXAMPLE: Setting the clock to "8:30 AM" October, 23 (WED), 2002.

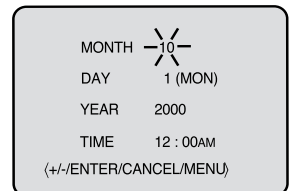1 Press **SETUP MENU**. The VCR menu screen will appear.

2 Press ◀ or ▶ to select the SYSTEM SET UP menu, then press **ENTER**.

```
          MENU
  ▌ TIMER REC SET
  ▌ AUTO REPEAT    ON ▶ OFF
  ▌ SAP            ON ▶ OFF
  ▌ SURROUND       ON ▶ OFF
  ▌ CH SET UP
  ▌ SYSTEM SET UP

  ⟨+/-/ENTER/MENU⟩
```

3 Press ◀ or ▶ to select the "CLOCK SET" option, then press **ENTER**.

```
  SYSTEM SET UP
  ▌ CLOCK SET
  ▌ LANGUAGE/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 (MON)

  YEAR     2000

  TIME     12 : 00AM
  ⟨+/-/ENTER/CANCEL/MENU⟩
```

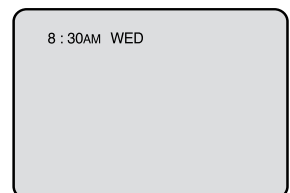**To make corrections any time during the process**
Press **CANCEL** repeatedly until the item you want to change blinks, then press ◀ or ▶.

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

```
  MONTH    10

  DAY      23 (WED)

  YEAR     2002

  TIME     8 : 30AM
  ⟨+/–/ENTER/CANCEL/MENU⟩
```
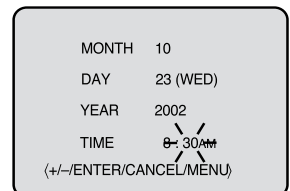
6 After setting the clock, date and time starts functioning automatically.

```
  8 : 30AM  WED
```

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

JVC

VCR/DVD/TV

23

Loading and Unloading a Cassette Tape

**Use only video cassette tapes marked** VHS **and** S VHS **.**

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.
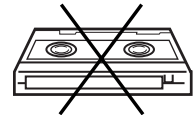• HQ VHS is compatible with existing VHS equipment.

Loading

Push the center of the tape until it is automatically inserted.
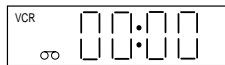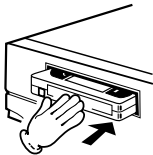
Insert the cassette tape with its labeled side facing up and the erase prevention tab positioned at your left. An inverted cassette tape cannot be inserted.
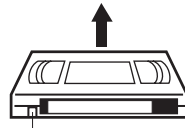
Erase prevention tab

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

1 Press **EJECT** on the unit.

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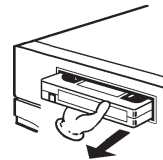
Automatic tape eject
This VCR will automatically rewind the tape when the tape has ended. And when the tape is rewinded to its beginning, the cassette tape will be ejected automatically.

To prevent accidental erasure
Remove the erase prevention tab with a screwdriver.

Screwdriver

Erase prevention tab

To record again
Cover the hole with a piece of adhesive tape.

Adhesive tape
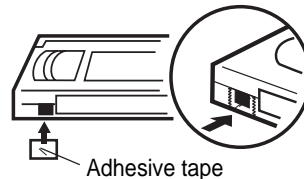
Tape speed and maximum recording time

Tape Speed	Video cassette tape				
	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

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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)

1 Load a prerecorded tape (When loading a cassette tape without the erase prevention tab, playback will start automatically).
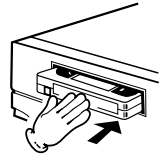
2 **To start playback**
Press **PLAY**.
Playback will start.
" ▶ " will appear on the screen for about 4 seconds.

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:	To forward the tape:
Press **REW**.	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.

NOTE:
- 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.

25

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.

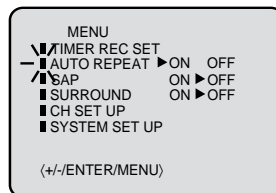• Press **A.TRK** to reactivate automatic tracking again. "AUTO TR." will appear.

Note:
• 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.

```
         MENU
   TIMER REC SET
   AUTO REPEAT ▶ON   OFF
   SAP          ON ▶ OFF
   SURROUND     ON ▶ OFF
   CH SET UP
   SYSTEM SET UP

   ⟨+/-/ENTER/MENU⟩
```

3 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

26

ZERO RETURN function / Video Index Search system

ZERO RETURN function

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

NOTE 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.

NOTE 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)

1 Press **OSD**.
The counter display shows the tape running time during playback or recording.
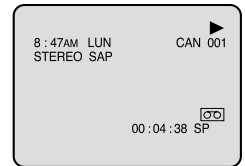
2 Press **C. RESET** at the desired tape position. The counter display will be reset to the "00:00:00" position (e.g. the begining of recording).
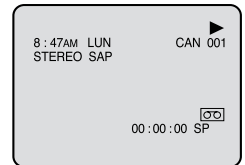
3 Press **STOP** when playback or recording is finished.
Press **ZERO RETURN**.
The tape will be rewinded or fast forwarded and automatically stop at the "00:00:00" position.

The DISPLAY-button

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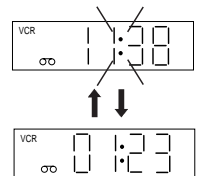
Video Index Search system

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.
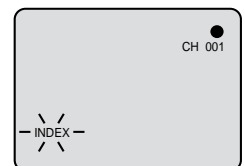
Index Search

Press **INDEX ▶▶I** or **I◀◀** 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 ▶▶I** or **I◀◀** 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**.

▶▶I or I◀◀ is displayed

INDEX NO. (up to 9)

27

Recording a TV program

Recording and viewing the same TV program

JVC

VCR/DVD/TV

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 slid to VCR/DVD. Then press **VCR** to select the VCR mode. (The VCR indicator will light)

1 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.

00 : 00 : 00 SP

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.

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".

CH 110
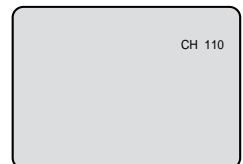
VHF/UHF/CATV CHANNELS

TV	CATV
VHF 2-13	VHF 2-13
UHF 14-69	STD/HRC/IRC 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

28
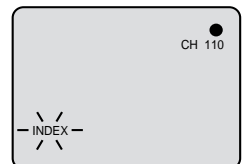
To stop recording

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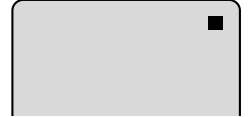
To stop recording temporarily

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

" ●II " 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.

While watching TV

DAY OF THE WEEK

CLOCK

8 : 47AM MON   CH 125 — **CHANNEL**
STEREO SAP

**STEREO AND
SEPARATE AUDIO
PROGRAM (SAP)**

00 : 00 : 00 SP — **TAPE SPEED**

REAL TIME COUNTER

While operating a tape

8 : 30AM MON   ►   CH 125 — **OPERATING
MODE**

HI-FI STEREO — HI-FI

AUTO REPEAT — ↻ 📼 — **TAPE IN**
00 : 00 : 00 SP

To cancel the display: Press **OSD** until all indicators disappear.
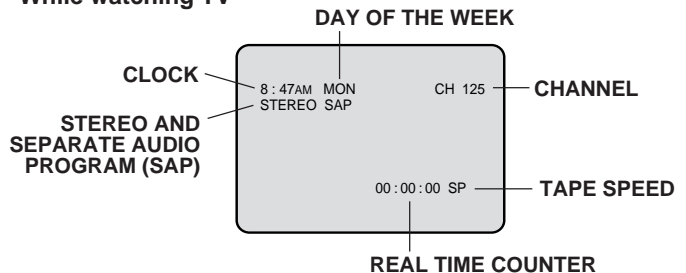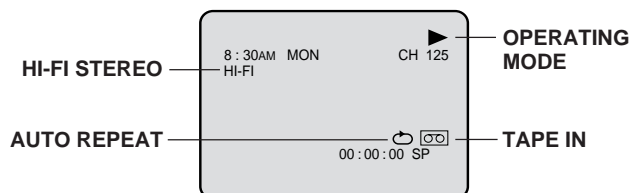
Auto Rewind feature

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

POWER

•TV VCR DVD

DVD MENU MARKER RETURN OPEN/CLOSE

DISPLAY A.TRK C.RESET ZERO RETURN
         SUB TITLE ANGLE SEARCH MODE

SP/EP
PLAY MODE ZOOM TITLE REPEAT A-B

•TV
1 2 3 POWER

4 5° 6 •INPUT

7 8 9 +
              •TV VOL
0 TIMER TV/VCR —

REW PLAY FF

REC STOP PAUSE

SKIP/INDEX •TV/VCR CH + SKIP/INDEX

SET – ENTER/SELECT SET +

SET UP MENU CANCEL

•TV/VCR CH –

OSD A.MONITOR SLOW SKIP SEARCH

JVC
VCR/DVD/TV

29

Instant Timer Recording (ITR)

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

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 **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.

00 : 00 : 00 SP

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.

CH 110
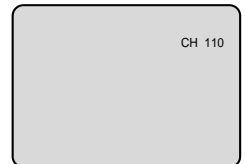
5 Press **REC** on the VCR or while holding **REC**, press **PLAY** on the Remote to begin recording. Press **REC** on the VCR again to stop recording after 30 minutes. Each additional press of **REC** will increase recording time as shown in the chart below, up to a maximum of 5 hours. The ITR and recording 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		

ITR 0 : 30
CH 125

— INDEX —

JVC

VCR/DVD/TV

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).

To cancel ITR

Press **STOP** or turn off the power.
" ■ " will appear on screen for about 4 seconds.

30

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.

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).

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

```
         MENU
         TIMER REC SET
         AUTO REPEAT   ON ► OFF
         SAP           ON ► OFF
         SURROUND      ON ► OFF
         CH SET UP
         SYSTEM SET UP

         〈+/-/ENTER/MENU〉
```

2 Press **SET +** or **–** to select one of the program line, then press **ENTER**.

```
   DATE   START  END   CH
   --/--/--- --:-- --:-- --- ---
   --------:----- -:------- ---
   ...
   〈+/-/ENTER/CANCEL/MENU〉
```

3 Press **SET +** or **–** to select the date, then press **ENTER**.

```
   DATE    START  END   CH
   26(SU)  --:--  --:-- --- ---
   ...
   〈+/-/ENTER/CANCEL/MENU〉
```

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

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

NOTE:
- 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).
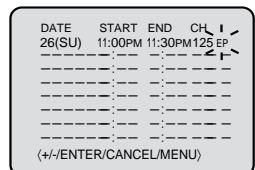
5 To enter other programs, repeat step **2** through **4**.

- To return to the normal screen, press **SETUP MENU** twice.

```
   DATE    START    END   CH
   26(SU)  11:00PM  11:30PM 125 EP
   ...
   〈+/-/ENTER/CANCEL/MENU〉
```
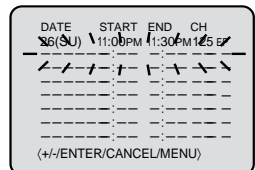
6 Press **TIMER**. The clock symbol( ) will appear on the display and the VCR stands by for recording. At the same time, VCR mode will change to DVD mode automatically. You can use DVD even if the VCR is in the Timer recording mode.
If you do not use the DVD, turn the power off.
The timer recording will start at 5 seconds before the time you predetermined.

NOTE:
- If the clock symbol( ) 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)
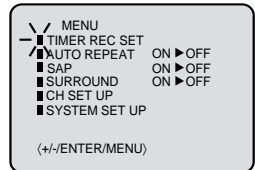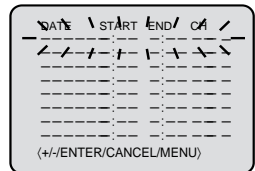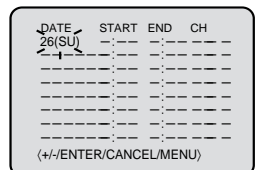
NOTE:
- If the clock symbol( ) blinks when the timer recording ended, the TV program has not been completely recorded because of an insufficient tape supply. In this case, press **TIMER** to cancel the timer program or press **EJECT** to remove the cassette tape.
- During timer recording standby mode, 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.

31

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**.

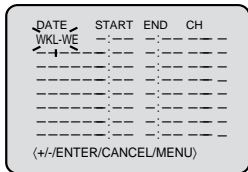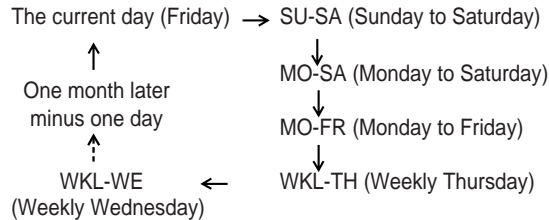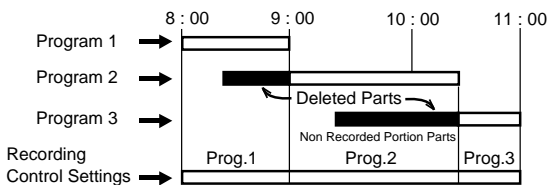When you press **SET –** repeatedly, the indicator at DATE will change as follows, in this case the today is Friday.

The current day (Friday) → SU-SA (Sunday to Saturday)

↑ ↓

One month later minus one day MO-SA (Monday to Saturday)

⋮ ↓

↑ MO-FR (Monday to Friday)

WKL-WE ← WKL-TH (Weekly Thursday)
(Weekly Wednesday)

```
 DATE    START  END    CH
WKL-WE  –:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
〈+/-/ENTER/CANCEL/MENU〉
```

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.

```
           8 : 00    9 : 00     10 : 00    11 : 00
Program 1 ➞ [                ]
Program 2 ➞     [                    ]
            [  Deleted Parts ➞           ]
Program 3 ➞          [ Non Recorded Portion Parts ]
Recording
Control Settings ➞ [ Prog.1 ][   Prog.2   ][ Prog.3 ]
```

NOTE:
• 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.
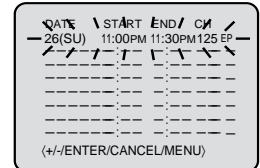
Confirmation / Cancellation of the Timer Recording

1 If the Timer has been activated, press **TIMER** to deactivate the Timer. The clock symbol(🕐) will disappear. Then press **VCR** to change to VCR mode.
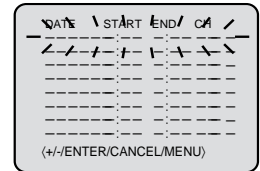
2 **To confirm Timer program:**
At picture **1** on the previous page select the TIMER REC SET option and press **ENTER**. Then the timer program list as right will appear on the screen.

```
 DATE    START  END  CH
26(SU)  11:00PM 11:30PM125 EP
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
〈+/-/ENTER/CANCEL/MENU〉
```

3 **To cancel Timer program:**
Press **SET +** or **–** to select the unnecessary program, then press **CANCEL** to cancel the program.

```
 DATE    START  END  CH
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
〈+/-/ENTER/CANCEL/MENU〉
```

4 Press **SETUP MENU** repeatedly until the TV-picture appears.

NOTE:
• 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 TV-picture appears.

```
 DATE    START  END   CH
26(SU)  11:00PM 11:30PM125 EP
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
–––––––:––   –:–– –– ––
〈+/-/ENTER/CANCEL/MENU〉
```

32

Stereo Recording and Playback

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

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.

STEREO

NOTE:

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 SELECTION	SOUND HEARD ON BOTH 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.

1 Press **SETUP MENU**. Then press ◄ or ► to select SAP.

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

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

```
        MENU
   ▌ TIMER REC SET
  ▐▌ AUTO REPEAT   ON ►OFF
 ─▐▌ SAP         ►ON   OFF
   ▐▌ SURROUND     ON ►OFF
   ▌ CH SET UP
   ▌ SYSTEM SET UP

   〈+/-/ENTER/MENU〉
```
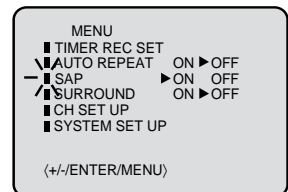
Listening to SAP

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.
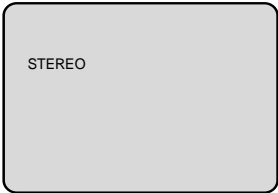
STEREO SAP   **OR**   SAP

NOTE:
- 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.

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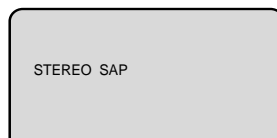
Duplicating a video tape/Duplicating a disc material onto a video tape

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.

1 Load a blank cassette tape with the erase prevention tab intact into the recording VCR.
Load a previously recorded tape into the playback VCR or CAMCORDER.

2 Press **SP/EP** to select the desired tape speed SP or EP.
It is recommended that you set the speed to the SP mode on the recording VCR for best results.
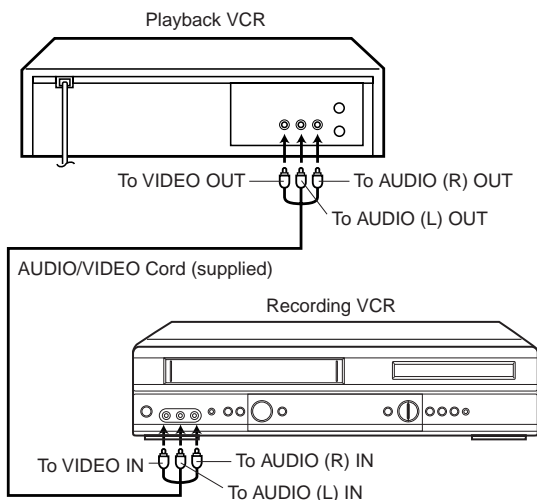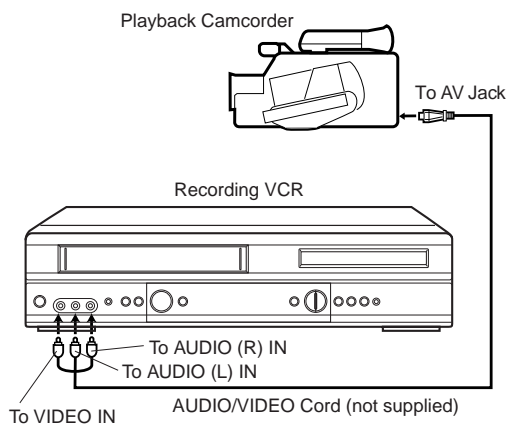
3 Press **VCR CH +** or **–** to select AUDIO/VIDEO input position. "L" will appear in the display.

4 Press **REC** on the recording VCR.
Or on the Remote, while holding **REC**, press **PLAY**. Then press **PAUSE**.

5 Press PLAY button on the playback VCR or CAMCORDER, then press PAUSE button.

6 Press **PAUSE** on both the VCRs simultaneously to begin the duplicating process.

Connection with second Video recorder

Playback VCR

To VIDEO OUT — To AUDIO (R) OUT
To AUDIO (L) OUT

AUDIO/VIDEO Cord (supplied)

Recording VCR

To VIDEO IN — To AUDIO (R) IN
To AUDIO (L) IN

Connection with Video camera

Playback Camcorder

To AV Jack

Recording VCR

To AUDIO (R) IN
To AUDIO (L) IN
To VIDEO IN   AUDIO/VIDEO Cord (not supplied)

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 " 𝒪➡📺 " 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)

2 Press **PLAY** to start the disc playback.

3 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)

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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".
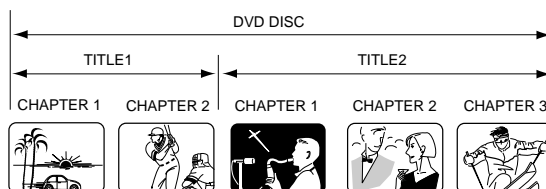
Chapter

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

DVD DISC				
TITLE1		TITLE2		
CHAPTER 1	CHAPTER 2	CHAPTER 1	CHAPTER 2	CHAPTER 3

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
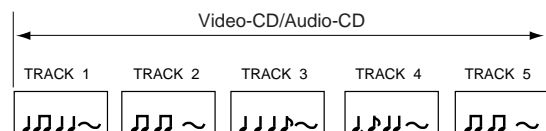
Removing Disc from Case

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.

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Setting setup language

The setup language can be selected.

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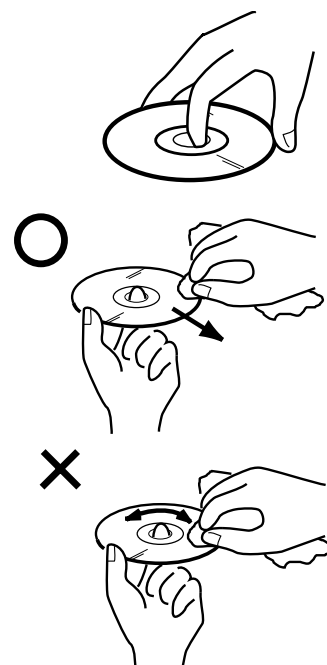**If the DVD/VCR does not operate properly:** Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.
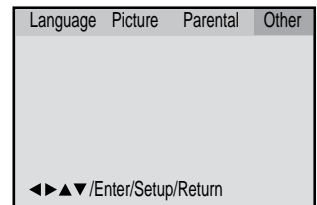
Preparation:
- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD.
- When using an amplifier, switch on the amplifier.

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.)

No Disc

DVD VIDEO™

2 Press **SETUP MENU** in the stop mode. The SETUP MENU of DVD will appear on the screen. Then press ◀ or ▶ to select Other.

Language	Picture	Parental	Other

◀▶▲▼/Enter/Setup/Return

3 Press **ENTER** to select OSD Language.

Language	Picture	Parental	Other

OSD Language English

◀▶▲▼/Enter/Setup/Return
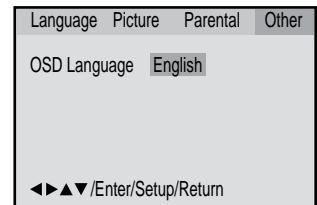
4 Press ▶ and then press ▲ or ▼ to select desired language (e.g. English), then press **ENTER**.

Language	Picture	Parental	Other

OSD Language English   English
                        Francais
                        Espanol

◀▶▲▼/Enter/Setup/Return
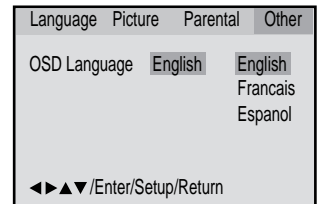
NOTE: To make the SETUP screen disappear, press **SETUP MENU** (or **RETURN**).

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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)

1 Press **OPEN/CLOSE**.
  The disc tray will open.

2 Place a disc onto the tray.
  Hold the disc, position it with the printed label side up, align it with the guides, and place it in its proper position.

3 Press **PLAY** or **OPEN/CLOSE**.
  The disc tray closes automatically.
  On the screen, ⏏ changes to "Reading" and then playback will commence.

  - A menu screen may appear on the TV screen, if the disc has a menu feature. In this case, press ▲ , ▼ , ◄ , ► or **ENTER** to operate a menu feature.
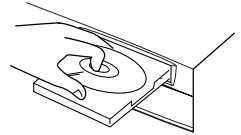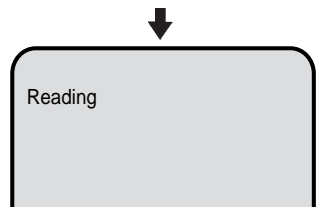
  Reading

4 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("■" appears on the screen) or unload the disc, the DVD/VCR will clear the stopped point.

5 Then press **OPEN/CLOSE**.
  The disc tray opens.
  Remove the disc and press **POWER**.
  The disc tray closes automatically and DVD/VCR turns off.

Note:
- 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 "No 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.

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Special playback

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

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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 x2, x4, x8, x20. (in case of Audio-CD: x6 and x16 are available)

• 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. (in case of Audio-CD: x6 and x16 are available)

• 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 (▶▶|)** Forward or **SKIP (|◀◀)** Reverse during playback to locate a chapter that you want to watch.
Each time you press the button, a chapter or track is skipped.

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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)

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.

1 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).

Q 1

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)

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

```
Jump   Time    : --:--:--
       Title   :  ---
       Chapter :  ---
▲▼/Enter/0~9/Cancel/Jump
```

2 Press ▲ or ▼ 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.

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

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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)

Title, Chapter, Track Playback

1 Press **PLAY MODE** during playback or stop mode.

DVD	**CD**
Repeat : Off ◄►/Enter/Play Mode	Play Mode : Off Repeat : Off ◄►▲▼/Enter/Play Mode
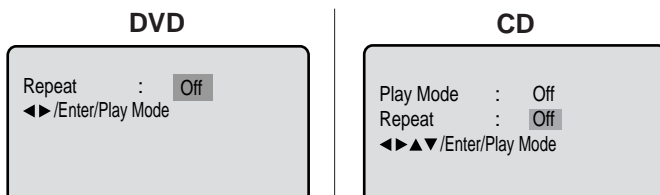
2 Press **ENTER** once or twice to select "Chapter" or "Title".
In case of CD, at first press ▼ to select "Repeat" and then press
ENTER once or twice to select "Track" or "All".

DVD	**CD**
Repeat : Chapter ◄►/Enter/Play Mode	Play Mode : Off Repeat : All ◄►▲▼/Enter/Play Mode
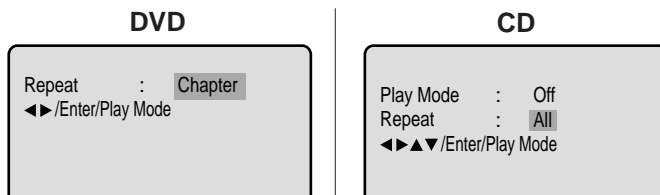
3 Press **PLAY MODE** again to make the screen disappear.

- 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.

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

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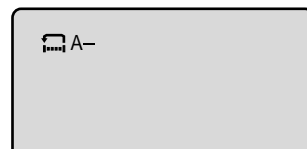
2 Press **REPEAT A-B** again.
The end point is selected. Playback starts at the point that you selected. Playback stops at the end point, returns to Point A automatically, then starts again.

A−B
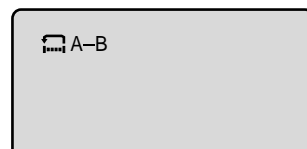
To resume normal playback press **REPEAT A-B** again.
"☐ Off" appears on the screen.

Note:
- 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.

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Program playback/Random playback (CD)

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.

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

```
Play Mode     :   Off
Repeat        :   Off
◄►▲▼/Enter/Play Mode
```

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

```
Play Mode          : Program
Repeat             : Off
1 ---   4 ---   7 ---   10 ---
2 ---   5 ---   8 ---   11 ---
3 ---   6 ---   9 ---   12 ---
Quit          Program Playback
◄►▲▼/Enter/0−9/Cancel/Play Mode
```

3 **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**.

```
Play Mode          : Program
Repeat             : Off
1 7--   4 ---   7 ---   10 ---
2 3--   5 ---   8 ---   11 ---
3 11-   6 ---   9 ---   12 ---
Quit          Program Playback
◄►▲▼/Enter/0−9/Cancel/Play Mode
```

4 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.

```
Program Playback
```

Random playback

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

```
Play Mode     :   Off
Repeat        :   Off
◄►▲▼/Enter/Play Mode
```

2 Press ◄/► to select "Random".

```
Play Mode          : Random
Repeat             : Off
◄►▲▼/Enter/Play Mode
```

3 Press **PLAY**.
"Random Play" will appear on the screen and Random Playback will start.

Note:
- To cancel program play, select "Quit" at step **4** 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.

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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 MP3-encoding 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 three-digit 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)
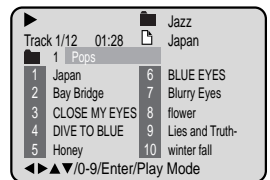
1 Press **OPEN/CLOSE**.
The disc tray will open.
Place a disc onto the tray.
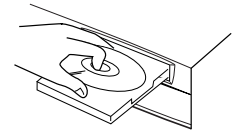
2 Press **PLAY** or **OPEN/CLOSE**.
The disc tray closes automatically.
On the TV-screen, "Reading" and then reading file number will appear. Reading will take as much time as the number of file.

```
Reading
MP3  15
```
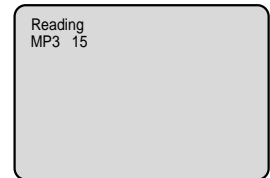
3 A MP3 menu screen will appear on the TV screen.
Press ◀ / ▶ or **ENTER** to select folder.

```
▶                    ■  Jazz
Track 1/12  01:28  🗋  Japan
■ 1 Pops
1  Japan          6  BLUE EYES
2  Bay Bridge     7  Blurry Eyes
3  CLOSE MY EYES  8  flower
4  DIVE TO BLUE   9  Lies and Truth-
5  Honey         10  winter fall
◀▶▲▼/0-9/Enter/Play Mode
```

4 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.

```
▶                    ■  Jazz            ▶                    ■  Jazz
Track 1/12  01:28  🗋  Japan           Track 1/12  01:28  🗋  Japan
■ 1 Pops                               ■ 1 Pops
1  Japan          6  BLUE EYES         11  Mother
2  Bay Bridge     7  Blurry Eyes       12  Hold Your Last
3  CLOSE MY EYES  8  flower
4  DIVE TO BLUE   9  Lies and Truth
5  Honey         10  winter fall
◀▶▲▼/0-9/Enter/Play Mode               ◀▶▲▼/0-9/Enter/Play Mode
```
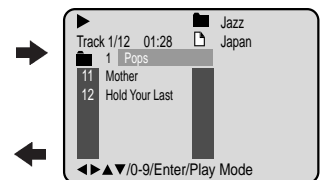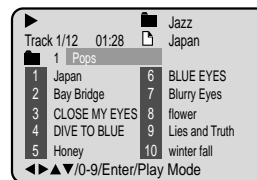
5 Press **STOP** to end playback.
• The unit records the stopped point. "▶" appears on the screen. Press **PLAY** to resume playback (from the scene point).
• If you press **STOP** again or unload the disc, the unit will clear the stopped point.

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.

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

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

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

1 Press **MARKER** during playback.

```
Marker   1 :  ** : ** : **
Marker   2 :  ** : ** : **
Marker   3 :  ** : ** : **
▲▼/Enter/Cancel/Marker
```

2 Select the blank Marker using ▲/▼.
Then press **ENTER** at the desired scene.

  • Repeat this procedure to set the other 2 scenes.

```
Marker   1 :  00 : 27 : 54
Marker   2 :  ** : ** : **
Marker   3 :  ** : ** : **
▲▼/Enter/Cancel/Marker
```

3 Press **MARKER** to remove this display.

Returning to the Scenes

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

```
Marker   1 :  00 : 27 : 54
Marker   2 :  01 : 16 : 25
Marker   3 :  02 : 08 : 31
▲▼/Enter/Cancel/Marker
```

2 Press ▲/▼ to select the Marker 1-3.

```
Marker   1 :  00 : 27 : 54
Marker   2 :  01 : 16 : 25
Marker   3 :  02 : 08 : 31
▲▼/Enter/Cancel/Marker
```

3 Press **ENTER**.
Playback starts from the marked scene.

To Cancel the Mark

1 Press **MARKER**.

2 Press ▲/▼ to select the Marker 1-3.

3 Press **CANCEL**.
To remove this display, press **MARKER**.

Note:
- 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.

43

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.

1 Press **A.MONITOR** during playback.
The current soundtrack language will appear.

```
2/8 Fra DolbyDigital
```
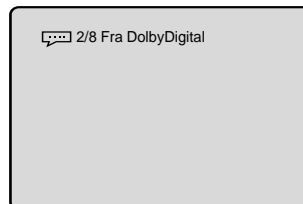
2 Press **A.MONITOR** repeatedly until the desired language is selected.
The on-screen display will disappear after a few seconds.

```
1/8 Eng DolbyDigital
```
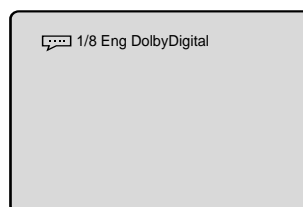
In case of VIDEO CD playback

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

LR ➡ L ➡ R

Turning the Subtitles On and Off

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

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
```

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VCR/DVD/TV

Note:
- 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.

44

Changing angles / Title selection / DVD menu

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.

 📹 1/9
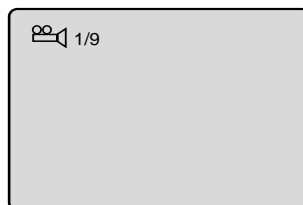
2 Press **ANGLE** repeatedly until the desired angle is selected.

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**.

2 Press ▲/▼ or ◀/▶ to select the desired title.

3 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.

1 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**.

2 Press ▲/▼ or ◀/▶ to select the desired item.

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

JVC
VCR/DVD/TV

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.

45

Parental control

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

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

1 Press **SETUP MENU** in the stop mode. Press ◀ or ▶ to select "Parental". Then press **ENTER**.

Language	Picture	Parental	Other
Password	-----		
Parental	8		
0–9/Cancel			
◀▶▲▼/Enter/Setup/Return			

2 Press ▲ or ▼ to select "Parental 8", then press **ENTER** until the level you desire appears (e.g.: 1).

Language	Picture	Parental	Other
Password	-----		
Parental	1		
◀▶▲▼/Enter/Setup/Return			

3 Press ▲ once to select "Password ----- ". Then press **Number keys** to input a 4-digit password (e.g.: 1234).

• If you input a wrong number, press **CANCEL**.
• Be sure to remember this number!

Language	Picture	Parental	Other
Password	1234		
Parental	1		
0–9/Cancel			
◀▶▲▼/Enter/Setup/Return			

Level 1: DVD software for adults cannot be played back.
Level 8: All DVD software can be played back.

Select from level 1 to level 8.
On a scale of 1-8, "1" is the most restrictive.

4 Press **ENTER**.
1234 change to ----- .

Language	Picture	Parental	Other
Password	-----		
Parental	1		
0–9/Cancel			
◀▶▲▼/Enter/Setup/Return			
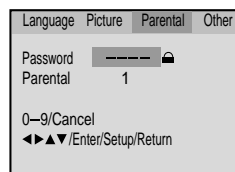
5 To make SETUP screen disappear, press **SETUP MENU**.

To unlock the Parental Control Setting

Cancel the password so as to set the Parental level freely again,

1 Select "Password ----- " (step **1**) and press **Number keys** to input your 4-digit password. Then press **ENTER**.

Language	Picture	Parental	Other
Password	1234		
Parental	1		
0–9/Cancel			
◀▶▲▼/Enter/Setup/Return			
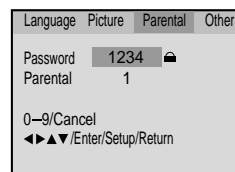
2 If the input password was right, ----- will appear. You can move to "Parental 1"(e.g.) to input the desired level or to cancel parental control.

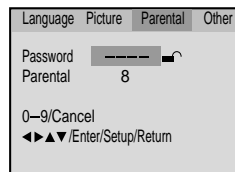| Language	Picture	Parental	Other
Password	-----		
Parental	1		
0–9/Cancel			
◀▶▲▼/Enter/Setup/Return			

Note:
• **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.

46

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.
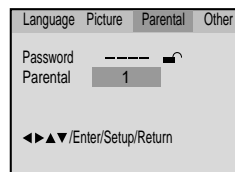
Preparation:
• Turn ON the TV and set to the video input mode.
• Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light)
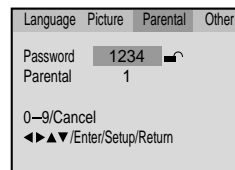
1 Load a DVD disc and press **PLAY** or **OPEN/CLOSE** (see page 37).
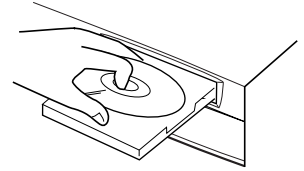
2 If the DVD disc has been designed to temporarily cancel the Rating level, the screen which follows the "Reading" screen will change, depending on which disc is played. If you select "YES" with **ENTER** key, "Your disc exceeds the parental control level 1."(e.g.) screen will then appear.

Reading	Your disc exceeds the parental control level 1.
DVD VIDEO	Parental Control Level Cancel Picture ▲▼/Enter/Return
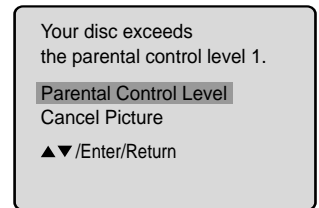
3 If you wish to cancel the set rating level temporarily, select "Parental Control Level" with ▲ or ▼, then press **ENTER**. If the 4-digits password at step **3** on page 46 has been set, the password entering screen will appear as shown in step **4** below. Alternatively, if the password has not been set, playback will commence. If you don't know (or have forgotten) the password, select "Cancel Picture".
The setting screen will disappear. Press **OPEN/CLOSE** to remove the disc.

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

Please enter the
4 — digit password

▬ – – – –   🔒

Enter/0 – 9/Cancel/Return

If you interrupt the entering, press **RETURN**.
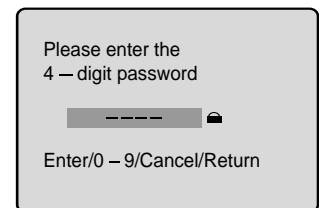
5 Playback will commence if the entered password was correct.

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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.

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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 slid to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light)

1 Press **SETUP MENU** in the stop mode.
Press ◀ or ▶ to select "Language".

Language	Picture	Parental	Other

◀▶▲▼/Enter/Setup/Return

2 Press **ENTER**.
Then press ▲ or ▼ to select "Menu".

Language	Picture	Parental	Other
Menu	English		
Subtitle	English		
Audio	English		

◀▶▲▼/Enter/Setup/Return

3 Press **ENTER**.
Press ▲ or ▼ to select your desired language, then press **ENTER**.

Language	Picture	Parental	Other
Menu	English	English	
Subtitle	English	Francais	
Audio	English	Espanol	
		Other	

0 –9/Cancel — — — —
◀▶▲▼/Enter/Setup/Return
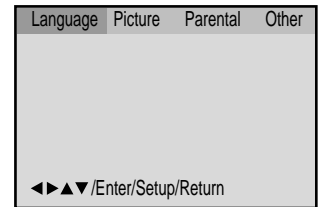
English, Francais, Espanol
The selected language is the first-priority Menu language.

OTHER: Other language can be selected (See the Language Code List on page 53).

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

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

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)
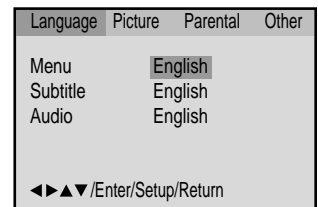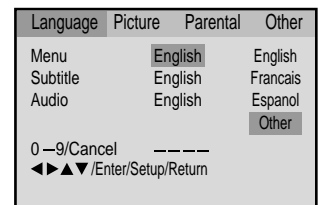
1 Press **SETUP MENU** in the stop mode.
Press ◀ or ▶ to select "Language"

Language	Picture	Parental	Other

◀▶▲▼/Enter/Setup/Return

2 Press **ENTER**.
Then press ▲ or ▼ to select "Subtitle".

Language	Picture	Parental	Other
Menu	English		
Subtitle	English		
Audio	English		

◀▶▲▼/Enter/Setup/Return

3 Press **ENTER**.
Press ▲ or ▼ to select your desired language, then press **ENTER**.

Language	Picture	Parental	Other
Menu	English		English
Subtitle	English		Francais
Audio	English		Espanol
			Other
0 —9/Cancel	— — — —		Automatic
◀▶▲▼/Enter/Setup/Return			Off

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 53).

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.

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

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

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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.

Note:
- If the selected language is not recorded on the disc, the original language will be heard.
- The "SPATIALIZER 3-D STEREO" 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. Press **SETUP MENU** to return to the TV.
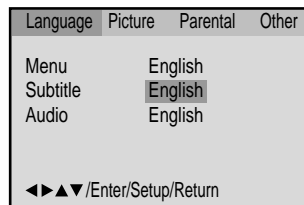
Preparation:
- Turn ON the TV and set to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light)
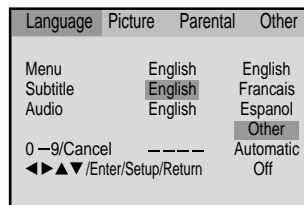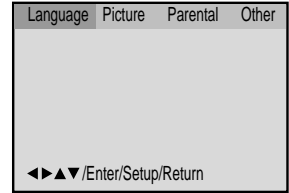
1 Press **SETUP MENU** in the stop mode.
Press ◀ or ▶ to select "Language"

Language	Picture	Parental	Other

◀▶▲▼/Enter/Setup/Return

2 Press **ENTER**.
Then press ▲ or ▼ to select "Audio".

Language	Picture	Parental	Other
Menu	English		
Subtitle	English		
Audio	English		

◀▶▲▼/Enter/Setup/Return

3 Press **ENTER**.
Press ▲ or ▼ to select your desired Audio Language, then press **ENTER**.

Language	Picture	Parental	Other
Menu	English	English	
Subtitle	English	Francais	
Audio	English	Espanol	
		Other	
0 —9/Cancel	————	Original	

◀▶▲▼/Enter/Setup/Return

- **English, Francais, Espanol:**
  The language you have selected will play 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 53).
- **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 3-D STEREO" as the SURROUND option in the VCR menu. It can produce the effect of being in a cinema or a concert hall.
Since the SURROUND option exists in the VCR menu, the setting is possible only during a disc-playback or in the VCR mode.

1 During disc-playback press **SETUP MENU**.

2 Press ◀ or ▶ to select SURROUND.
Then press **ENTER** to select [ON] or [OFF].

```
MENU
  ■ TIMER REC SET
  ■ AUTO REPEAT    ON ▶OFF
  ■ SAP            ON ▶OFF
—■ SURROUND       ▶ON  OFF
  ■ CH SET UP
  ■ SYSTEM SET UP

〈+/-/ENTER/MENU〉
```

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

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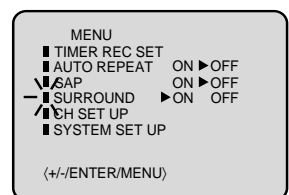
Setting the aspect ratio of TV screen

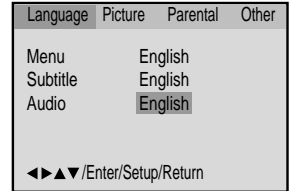**You can select the aspect ratio for your TV.**

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)
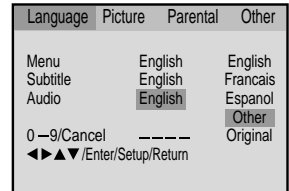
1 Press **SETUP MENU** in the stop mode.
Press ◀ or ▶ to select "Picture".

Language	Picture	Parental	Other

◀▶▲▼/Enter/Setup/Return

2 Press **ENTER**, then press ▲ or ▼ to select "Tv Screen".

Language	Picture	Parental	Other

Tv Screen　　4:3 ▭
Display　　　On

◀▶▲▼/Enter/Setup/Return

3 Press **ENTER**.
Press ▲ or ▼ to select your desired screen type, then press **ENTER**.

Language	Picture	Parental	Other

Tv Screen　　4:3 ▭　4:3 ▭
Display　　　On　　4:3 ▭
　　　　　　　　　　16:9 ▭

◀▶▲▼/Enter/Setup/Return

You have the following screen sizes to choose from:

4:3 ▭
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**.

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

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Setting on Screen display / Status display of Disc

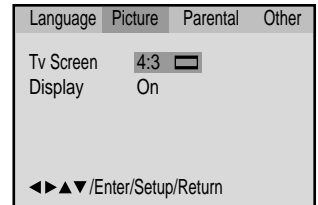**On screen display can be switched on or off when you press the buttons.**

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)
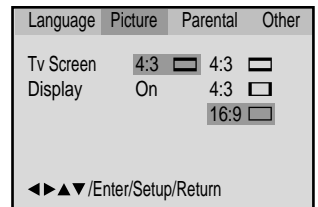
1 Press **SETUP MENU** in the stop mode.
Press ◀ or ▶ to select "Picture"

Language	Picture	Parental	Other
◀▶▲▼/Enter/Setup/Return			
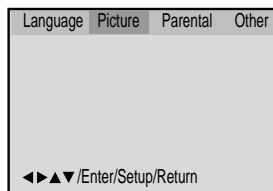
2 Press **ENTER**, then press ▲ or ▼ to select "Display".

Language	Picture	Parental	Other
Tv Screen	4:3 ▭		
Display	On		
◀▶▲▼/Enter/Setup/Return			

3 Press **ENTER** to select "On" or "Off".

Language	Picture	Parental	Other
Tv Screen	4:3 ▭		
Display	Off		
◀▶▲▼/Enter/Setup/Return			
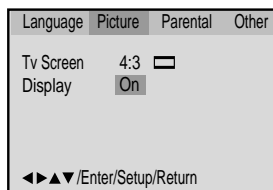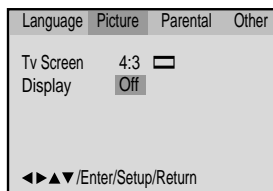
On: On screen displays appears when you press the any buttons (factory setting).
Off: On screen displays do not appear when you press any buttons except **SETUP MENU**, **SEARCH MODE**, **PLAY MODE**, **MARKER** and **OSD**.

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.

DVD

00:34:56 01:12:33

➡

| ▶ 00:34:56 01:12:33 |
| Title 1/99 Chapter 1/999 ◁ 1/9 |
| 💬 1/8 Eng DolbyDigital |
| 1/32 Eng |

VIDEO CD

00:09 04:35

➡

| ▶PBC 00:12 04:32 |
| Track —/— |

AUDIO CD

34:56 71:33

➡

| ▶ 34:56 71:33 |
| Track 11/99 |
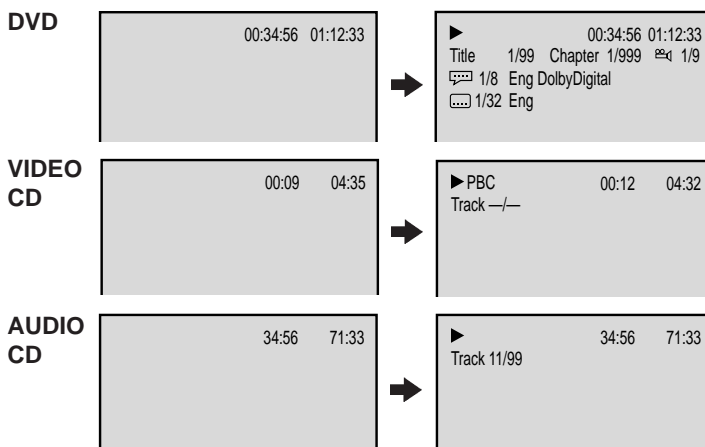
To make status display disappear, press **OSD** again.

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Language Code List

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	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

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Problems and troubleshooting

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.	• Make sure the power cord is plugged in. • Try another AC outlet. • Power is off, check fuse or circuit breaker. • Unplug unit, then plug it back in. • Select the DVD or VCR mode before operating. • Make sure TV/VCR/DVD switch has been slided to VCR/DVD.	5 – – 5 18,36 18,36
No picture.	• Antenna connection is not correct or antenna cable is disconnected. • The video channel is not in the correct position or the TV is not set to the video channel 3 or 4. • Check the unit is connected correctly. • The video input selector of the TV is not set to VIDEO. Set to VIDEO (or equivalent). • Channel is set to the external mode.	12~15 18 12~17 – –
No sound.	• Check the unit is connected correctly. • Check the input selector of the amplifier is set properly. • The unit is in the Special playback mode.	12~17 – 26,38
The remote control does not function.	• Aim at the remote control at the remote sensor. • Operate within Approx. 5 Meters or reduce the light in the room. • Clear the path of the beam. • The batteries are weak. Replace the batteries. • Check the batteries are inserted correctly. • Check the frequency code is set correctly.	11
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	• Check all CATV connections. • Station or CATV system problems, try another station.	14,15
No POWER but a picture appears on the TV screen.	• During the Auto Clock operation, a video signal can be put out. Please set the clock with Manual clock setting or wait until the Auto Clock operation completed.	23
VCR		
TV recording does not work.	• The erase prevention tab of the video cassette is broken off. • The unit is in the external input mode.	24,28
Timer recording does not work.	• The time is not set correctly. • The recording start/end time is not set correctly. • The TIMER has not been pressed (⏱ is not lit).	21,23 31 31
Noise bars on screen.	• Tracking adjustment beyond range of automatic tracking circuit. Try Manual tracking adjustment. • Video heads are dirty. • The tape is worn or damaged.	26 55 –
DVD		
Display is not shown in your language.	• Select proper language in the menu options.	36
Playback doesn't start.	• No disc is inserted. • The disc may be dirty. Clean up the disc. • The unit cannot play DVD-ROMs, etc.	37 35 35

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SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
Stopping playback, search, slow-motion play, repeat play, or program play, etc. cannot be performed.	• Some discs may not do some of the functions.	–
No 4:3 (16:9) picture	• The setup does not match your TV.	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.	• Turn off the unit and unplug the AC power cord for several minutes, then replug it.	–
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.	• Multilingual language is not recorded on the DVD disc.	49,50
No subtitle	• Some discs have no subtitles. • Subtitles are cleared. Press SUB TITLE.	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 customers regarding the clock feature of the 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.

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Specifications

GENERAL

Power supply: AC 110-220V, 50/60Hz
Power consumption: Operation: 22W at 220V 60Hz, Stand by: 4W at 220V 60Hz
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, Out: 1Vp-p/75 ohm
        Audio: In: -8 dBm/50K ohm, Out: -8 dBm/1K ohm
        Antenna: UHF/VHF IN/OUT: 75 ohm coaxial
Hi-Fi Frequency Response: 20Hz to 20,000Hz
Hi-Fi Dynamic Range: More than 90dB

VCR section

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. 1minute and 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: 0.01%
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
                              Conversion plug x 1

JVC

VICTOR COMPANY OF JAPAN, LIMITED

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