VHS **SQPB**4 HEAD 19µm HEAD

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

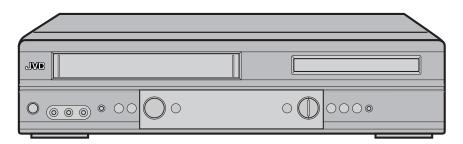
For model: HR-XVC1UJ

















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.

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 🖒/I button does not completely shut off mains power from the unit, but switches operating current on and off.

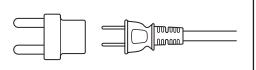
"(b)" shows electrical power standby and "I" shows ON.

This unit is produced to comply with Standard IEC 60065.

POWER SYSTEM:

This set operates on voltage of AC $110 - 220V_{\sim}$, 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.

WIS SQPB HIS

- 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.

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
 - (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.
- 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.



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.

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.

- *This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation or other rights owners and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation or other rights owners. Reverse engineering or disassembly is prohibited.
- * Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. © 1992-1997 Dolby Laboratories, Inc. All rights reserved.
- * "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.
- * Certain audio features of this product manufactured under license from Desper Products,Inc. Spatializer and the circle in square device are trademarks owned by Desper Products,Inc.
- * Unauthorized recording of copyrighted television programs, films, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws.

Features

DVD/CD Player/Video Cassette Recorder

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

VCR Section

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

DVD Section

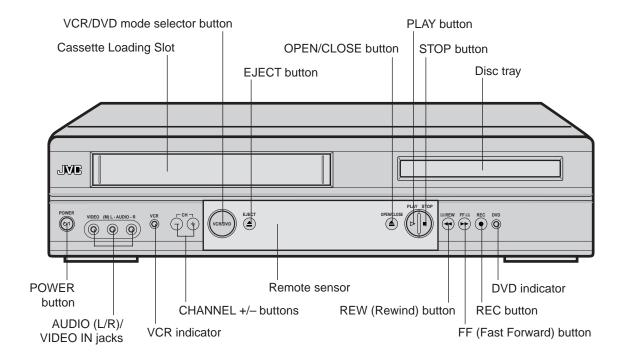
- Compatible with a wide range of DVD audio outputs Digital Audio Jack (Optical or Coaxial):
 - When a component with a built-in Dolby Digital decoder is connected, Dolby Digital sound can produce the effect of being in a movie theater or a concert hall.
 - Surround standard different from Dolby Digital. This format is already in use in many theaters. By connecting this unit to a DTS decoder or an AV amplifier with a built-in DTS decoder, the DTS audio of DVD discs recorded in this format can be enjoyed. However, audio will not be output from the analog audio output jacks.
 - The MPEG audio of DVD discs recorded in this format can be enjoyed.
 - The Linear PCM sound of a 48 kHz/16 bit through 96 kHz/20 bit exceeds audio CD sound.
- Surround audio This DVD equipped with a "SPATIALIZER N-2-2". It can produce the effect of being in a cinema or a concert hall.
- Multi-Language Since this DVD matches with 124 language-subtitles/-soundtracks, you can enjoy selecting a favorite one. (You can not select the language that is not recorded on the disc.)
- Multi-Angle Pictures of Sports or a Live Concert are recorded with many cameras. When you play such a disc, you can change the angles during playback. (If a Multi-Angle is not recorded on the disc, you can not change the angle.)
- Repeat Playback You can repeat chapter, track, title, sides or material between two selected points.
- Program/Random Playback (CD) You can play back tracks in programmed or random-selected sequences.
- Zoom You can zoom in on the selected subject on the screen during playback.
- Video Aspect Ratio You can change the aspect ratio of the screen for your monitor/television on a suitable disc.
- Parental Control You can limit the playback of scenes or sounds of adult DVD discs which have a parental level rating.

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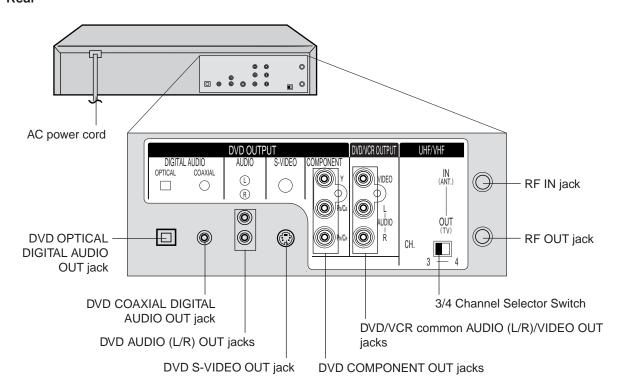
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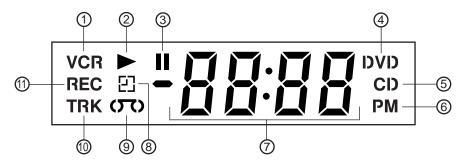
Front



Rear



Display window



No.	Display	Description	
1	VCR	VCR mode	
2	•	Playback (lights) / Auto resume (flashes)	
3		Still picture	
4	DVD	DVD disc is inserted.	
⑤	CD	CD is inserted.	
6	PM	Display for afternoon (lights out in the morning)	
	10:00	Clock display (colon[:] flashes)	
	01 : 00	Counter display by hour/minute at VCR/DVD / by minute/second at CD	
7	2	Track number display for CD	
	CH02	TV channel display for VCR	
	C036	CATV channel display	
	L	External input display	
8		Timer recording display	
9	S	Video tape is in the unit	
100	TRK	Track display for CD	
11	REC	Normal recording display (flashes during Instant Timer Recording - ITR)	

Explanation for On-Screen-Symbol:

	Playback	M	Skip chapter to reverse	Q	Zoom
	Stop		direction		Parental level locked
П	Still picture	_	Open or Close the tray		Parental level unlocked
⊪	Frame advanced playback		Auto resume		Screen size: Normal TV
 	Forward slowmotion	◂►▲▼	Direction button's mark		Screen size: PAN SCAN
>>	Fast Forward playback	 A–B	A-B repeat		Screen size: WIDE
4	Review playback		Subtitle language	₩	Shows Prohibited act
\bowtie	Skip chapter to forward	<u></u>	Soundtrack language	QE	Output sound for Video-CD
	direction	₩(Angle		

Note:

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

Remote control



JVC TV Remote Control

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

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

NOTE:

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

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◄ /▶	Cursor buttons - To move Up in the VCR	
	you press the ►. To move Down in the	VCR
ENTED	menu you press the ◀.	
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Inserting Batteries

1 Open the battery compartment cover in the direction of



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



Replace the compartment cover.



Battery precautions

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

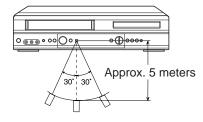
- 1. Use only the size and type of batteries specified.
- 2. Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device. To avoid a potential short circuit, insert the "-" end first.
- 3. Do not mix different 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.



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 1

Remote control:

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





DVD/VCR:

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



NOTES:

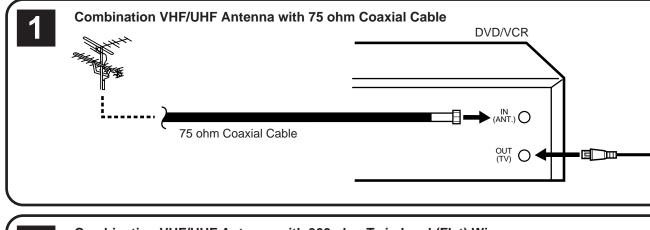
- If the remote control has been set to b, the DVD/VCR also must be set to b. Otherwise, the DVD/VCR can not be
 operated with this remote control.
- To reset to "A", repeat above procedure. However press 1 instead of 2.

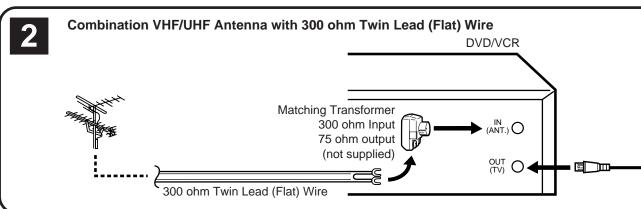
Basic connections

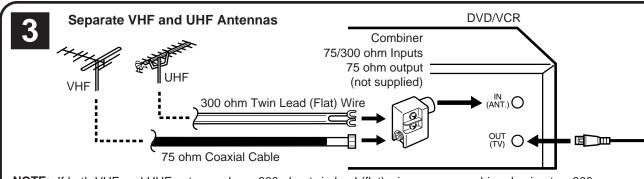
If you are using an antenna system, follow these instructions. If you are a cable (CATV) subscriber, skip ahead to page 14 for the proper connections.

ANTENNA TO DVD/VCR CONNECTION

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







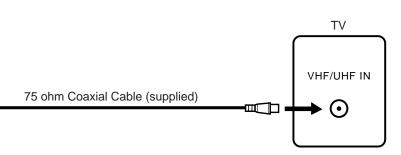
NOTE: If both VHF and UHF antennas have 300 ohm twin lead (flat) wires, use a combiner having two 300 ohm inputs and one 75 ohm output.

- **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.

DVD/VCR TO TV CONNECTION

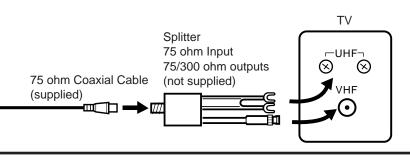
After you have connected the antenna to the DVD/VCR, you must connect the DVD/VCR to the TV. Below are 3 common methods of connecting your DVD/VCR to a TV. Find the type of TV you are using and follow the connection diagram.

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.



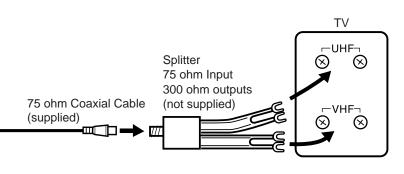
NOTE: If a VHF or UHF antenna is used, set the TV/CATV menu option to the "TV" mode.

TV with single 75 ohm VHF/UHF antenna input



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

TV with 300 ohm UHFand 75 ohm VHF antenna inputs

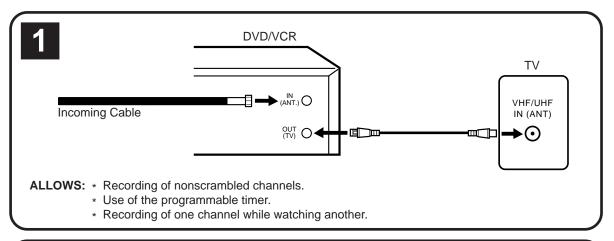


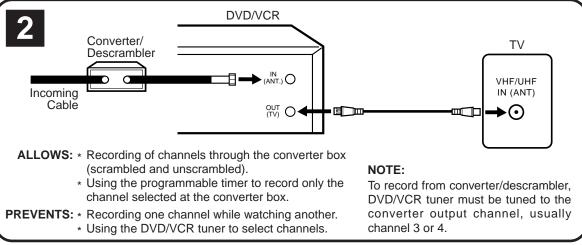
NOTE: If a VHF or UHF antenna is used, set the TV/CATV menu option to the "TV" mode.

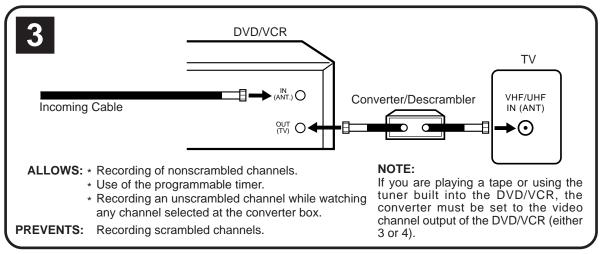
TV with 300 ohm UHF and 300 ohm VHF antenna inputs

CATV (CABLE TV) connections

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







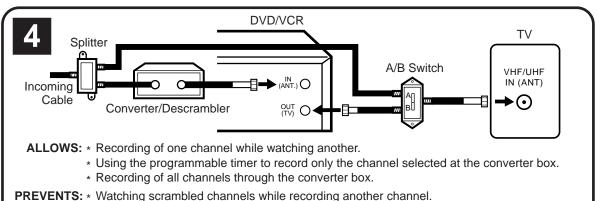
NOTE: Whenever a Converter/Descrambler box is placed before the DVD/VCR, you must tune the DVD/VCR to the output of the Converter/Descrambler box, usually channel 3 or 4.

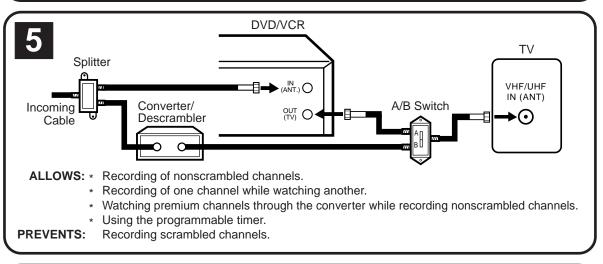
CATV (CABLE TV) connections

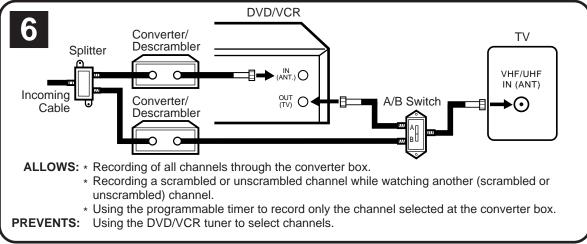
IMPORTANT: Make sure the TV/CATV menu option is set to the "CATV" mode.

* Using the DVD/VCR tuner to select channels.

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





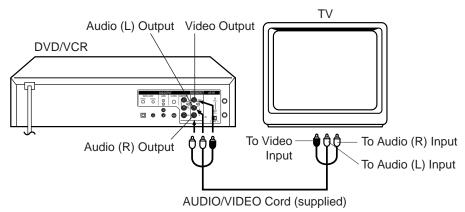


Playback Connection

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

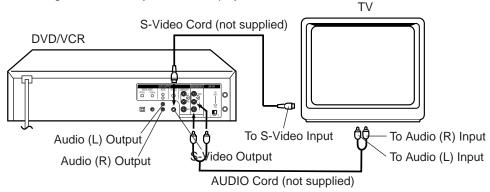
Connect to a TV with Audio/Video Output

Use the supplied AUDIO/VIDEO Cord.

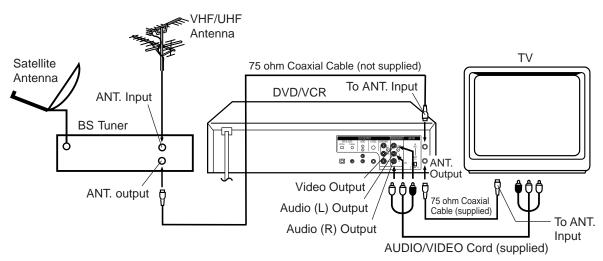


Connect to a TV with S-Video Output

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

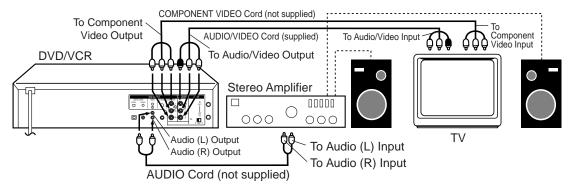


Connect to a BS TUNER



Connect to a Stereo Amplifier with Audio Output

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

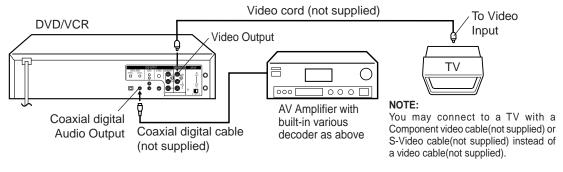


Connect to an AV Amplifier with built-in digital surround

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

Use this connection to connect an:

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



Connecting the optical digital cable

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

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

NOTES:

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

Setting the Video Channel / Setting the language

Setting the Video Channel

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



NOTES:

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

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

- 1 Press POWER to turn on the DVD/VCR.
- 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.

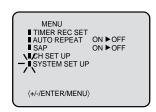
For a push-button TV tuner

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.

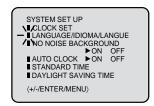
Setting the language

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.



Press o or to select the "LANGUAGE" option, then press ENTER.



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



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

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.



NOTE:

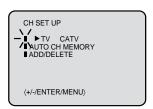
You can not select "CH SET UP" if you set the channel to "L".

Preparation:

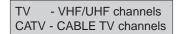
- Turn ON the TV and set it to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD.
 Then press VCR to select the VCR mode. (The VCR indicator will light.)

TV/CATV Selection

- Press **SETUP MENU**. The VCR menu screen will appear. Press ◀ or ▶ to select CH SET UP, then press **ENTER**.
- Press ◀ or ▶ to select the "TV/CATV" option.



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





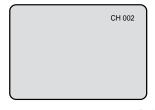
Press **SETUP MENU** until the menu screen is cleared.

Setting channels automatically

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



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



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.



7 To Add or Delete desired channels

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



To delete channels

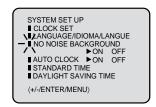
Press **ENTER** until "DELETE" appears on the screen to set to delete the channel from memory. The channel number will blink.

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

Noise elimination

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

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



3 Press SETUP MENU until the menu screen is cleared.

Auto clock setting

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



NOTES:

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

Preparation:

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

Auto clock setting

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

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

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

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

Time Zone setting (STANDARD TIME)

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

To correct the situation:

Preparation:

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



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



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

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.



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.

Manual clock setting

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.



NOTE:

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

Preparation:

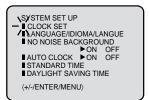
- Turn ON the TV and set to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD.
 Then press VCR to select the VCR mode. (The VCR indicator will light.)

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

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



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



4 Press ◀ or ▶ to set the month, then press **ENTER** button.

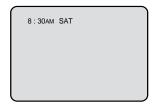


To make corrections any time during the process
Press CANCEL repeatedly until the item you want to change blinks, then press ◀ or ▶.

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



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



Loading and Unloading a Cassette Tape

Use only video cassette tapes marked VHS and SVHS.

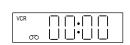
SQPB

- Cassettes marked "VHS" (or "S-VHS") can be used with this video cassette recorder. However, S-VHS recording
 is not possible with this model.
- This model is equipped with SQPB (S-VHS QUASI PLAYBACK) that makes it possible to play back S-VHS recordings with regular VHS resolution.
- HQ VHS is compatible with existing VHS equipment.

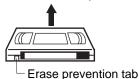
Loading

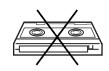
Push the center of the tape until it is automatically inserted.





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





Automatic power ON

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

Automatic playback

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

Unloading

1 Press **EJECT** on the unit.



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.



To record again

Cover the hole with a piece of adhesive tape.



Tape speed and maximum recording time

Tana Spand	Video cassette tape				
Tape Speed	T-160	T-120	T-90	T-60	T-30
SP (Standard Play)	2-2/3 hours	2 hours	1-1/2 hours	1 hour	30 minutes
EP (Extended Play)	8 hours	6 hours	4-1/2 hours	3 hours	1-1/2 hours

Cassette tape Playback

Preparation:

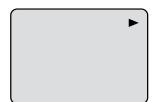
- Turn ON the TV and set to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD.
 Then press VCR to select the VCR mode. (The VCR indicator will light.)
- 1 Load a prerecorded tape (When loading a cassette tape without the erase prevention tab, playback will start automatically).



7 To start playback

Press **PLAY**.
Playback will start.

" ▶ " will appear on the screen for about 4 seconds.

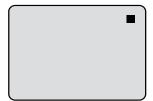


To stop playback

Press STOP once.

The tape will stop but remain fully loaded and ready to play.

" will appear on the screen for about 4 seconds.



To rewind the tape or forward it rapidly

Stop the playback or recording with STOP.

To rewind the tape:

Press REW.



To forward the tape:

Press FF.



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

Forward/Reverse picture search mode

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



NOTES:

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

Special playback

Picture Search

Reverse picture search function

Press **REW** x 1 or x 2 during the playback.

Forward picture search function

Press **FF** x 1 or x 2 during the playback.

To return to playback: Press PLAY.

Still Picture

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

Slow Motion

During playback press SLOW.

To return to playback: Press PLAY or SLOW.

Slow tracking and vertical lock adjustment

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

Frame by Frame picture

Press PAUSE during playback.

Press **SLOW** one by one: The picture advances frame by frame.

To return to playback: Press PLAY or PAUSE.

Adjusting tracking condition

Automatic tracking adjustment

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

Manual tracking adjustment

If automatic tracking cannot eliminate noises well during playback, press **SET +/**– to eliminate the noises. "MANUAL TR." will appear. Press it briefly for a fine adjustment, or press and hold for a coarse adjustment.

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

Notes:

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

Repeat playback

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

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



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

if you press **OSD**, " " will appear on the screen.

4 To start the playback, press **PLAY**. The playback will be repeated endlessly.

To cancel repeat mode:

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

Skip Search

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

For example: 1 press: 30 seconds of tape

2 presses: 60 seconds of tape 3 presses: 90 seconds of tape

ZERO RETURN function / Video Index Search system

ZERO RETURN function

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



NOTES for Counter Display:

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

NOTES for Video Index Search system:

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

Preparation:

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

1 Press OSD.

The counter display shows the tape running time during playback or recording.





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).



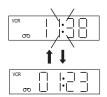


Press STOP when playback or recording is finished. Press ZERO RETURN.

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.

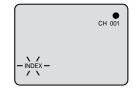


Video Index Search system

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.



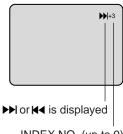
Index Search

Press **INDEX ▶** or **◄** during stop or play mode.

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

When the **INDEX** ►►I or ►◄ is pressed, the unit starts searching the INDEX NO. selected and finds the portion, then playback starts automatically.

To stop the Index Search, press STOP.



INDEX NO. (up to 9)

Recording a TV program

Recording and viewing the same TV program



NOTE:

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

Preparation:

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

The VCR will automatically turn on.



Press **SP/EP** to select the desired tape speed SP or EP.

The tape counter and SP or EP will appear on the screen for about 4 seconds.



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

> - VHF/UHF channels CATV - CABLE TV channels

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

1-9 Press 0 twice and then 1-9 as required. Example: To select 2, Press "002".

10-12 Press 0 first and then the remaining 2 digits in order from left to right.

Example: Press 012 for "12".

13-99 Press 2 digits in order. Example: Press 22 for "22".

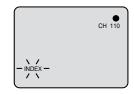
100-125 Press the 3 digits in order. Example: Press 110 for "110".



VHF/UHF/CATV CHANNELS

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

- **5** On the VCR, press **REC**. Or on the Remote, while holding REC, press PLAY.
 - " will appear on the screen for about 4 seconds and "REC" will appear on the display.



Recording a TV program



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.

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.

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



NOTE:

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

Recording one program while watching another

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

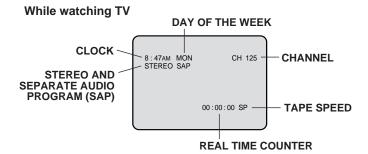
Select the TV channel you want to watch by using the TV channel selector. If the connected TV is JVC's, use **TV CH +/**– after slide **TV/VCR/DVD** switch to TV.

NOTE:

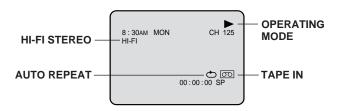
Some CATV hookups do not permit viewing one channel while recording another. See pages 14,15.

To Display VCR operation Status

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



While operating a tape



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

Instant Timer Recording (ITR)

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



NOTE:

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

Preparation:

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

Example: Instant Timer Recording for 30 minutes.

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



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.



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.



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

Press	Recording time	Press	Recording time
once	NORMAL REC	6 times	3:00
twice	0:30	7 times	4:00
3 times	1:00	8 times	5:00
4 times	1:30	9 times	NORMAL REC
5 times	2.00		



To cancel ITR

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

" **\|** " will appear on screen for about 4 seconds.



Timer Recording

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



NOTES:

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

Preparation:

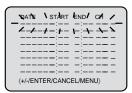
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD.
 Then press VCR to select the VCR mode.
- Load a cassette tape with the erase prevention tab intact.
- Press OSD to verify that the time and date are correct (see page 29).

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

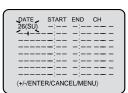
1 Press **SETUP MENU**. Select the TIMER REC SET option, then press **ENTER**.



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



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



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

NOTES:

- Press CANCEL to move cursor backward for correction.
- To record from external source set the channel to "L". "L" will appear next to CH 125 (or 69).



- 5 To enter other programs, repeat step 2 through 4.
 - To return to the normal screen, press **SETUP MENU** twice.



Press TIMER. The clock symbol([2]) will appear on the display and the VCR stands by for recording. At the same time, VCR mode will change to DVD mode automatically. You can use DVD even if the VCR is in the Timer recording mode. If you do not use the DVD, turn the power off. The timer recording will start at 5 seconds before the time you predetermined.

NOTES:

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

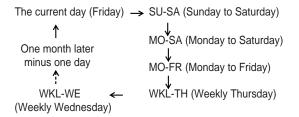
Timer-Recording

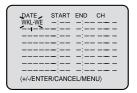
Timer Recording Special case

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

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

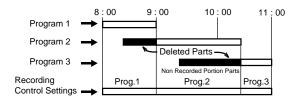
When you press **SET** – repeatedly, the indicator at DATE will change as follows, in this case the today is Friday.





In case Timer programs-overlap

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



NOTES:

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

Confirmation / Cancellation of the Timer Recording

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

2 To confirm Timer program:

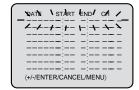
At picture 1 on the previous page select the TIMER REC SET option and press **ENTER**.

Then the timer program list as right will appear on the screen.



3 To cancel Timer program:

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



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

NOTES:

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

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

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

Then press **SETUP MENU** repeatedly until the TV-picture appears.



Stereo Recording and Playback / Separate Audio Program (SAP)

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.



NOTES:

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

Output selection

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

OUTPUT 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.

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.

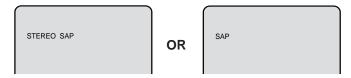


NOTES:

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

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.



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

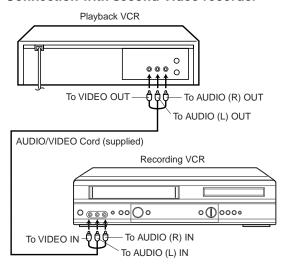
Duplicating a video tape

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.

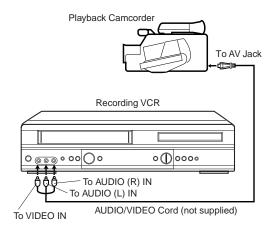
- Load a blank cassette tape with the erase prevention tab intact into the recording VCR. Load a previously recorded tape into the playback VCR or CAMCORDER.
- Press SP/EP to select the desired tape speed SP or EP.
 It is recommended that you set the speed to the SP mode on the recording VCR for best results.
- Press VCR CH + or to select AUDIO/VIDEO input position. "L" will appear in the display.

- 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



Connection with Video camera



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

Duplicating a disc material onto a video tape

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

Preparation:

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

This unit applies to DVD discs from Region 1 only.

The loaded Disc (DVD, Video-CD, Audio-CD and MP3-CD) will be recognized automatically.

The suitable Disc-formats are: DVD, CD-R and CD-RW.

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

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

Title

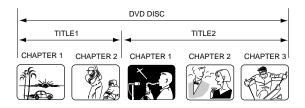
When two or more movies are recorded on a disc, the disc is divided into two or more sections. Each section is called a "TITLE".

Chapter

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

Video-CD/Audio-CD-Track

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





Removing Disc from Case

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

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

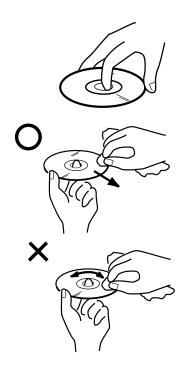
Storing Disc

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

Cleaning Disc

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

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



Setting setup language

The setup language can be selected.



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

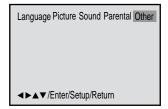
Preparation:

- Turn ON the TV and set it to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD.
- When using an amplifier, switch on the amplifier.
- 1 Press **DVD** to select the DVD mode. (The DVD indicator will light)

"No Disc" will appear on the screen. (If a DVD disc has already loaded, the playback will start automatically.)



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



Press ENTER to select OSD Language.



4 Press ▶ and then press ▲ or ▼ to select desired language (e.g. English), then press ENTER.



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

Playback procedure



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.
Hold the disc, position it with the printed label side up, align it with the guides, and place it in its proper position.

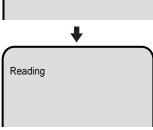


3 Press PLAY or OPEN/CLOSE. The disc tray closes automatically.

On the screen, \triangle 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.



- 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.

NOTES:

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

Special playback

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



NOTE:

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

Fast Forward Playback

Press FF during normal playback.

Each press of **FF** will increase the speed of the search $\blacktriangleright \blacktriangleright$ (x2), $\blacktriangleright \blacktriangleright \blacktriangleright$ (x4), $\blacktriangleright \blacktriangleright \blacktriangleright \blacktriangleright$ (x8), $\blacktriangleright \blacktriangleright \blacktriangleright \blacktriangleright$ (x20).

• To resume normal playback, press PLAY.

Review Playback

Press **REW** during normal playback.

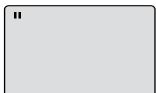
Each press of **REW** will increase the speed of the search \blacktriangleleft (x2), \blacktriangleleft (x4), \blacktriangleleft (x8), \blacktriangleleft (x20).

• To resume normal playback, press PLAY.

Still Playback

Press **PAUSE** during normal playback.

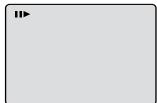
To resume normal playback, press **PLAY**.



Frame Advance

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

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



Slow-motion Playback

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

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

Locating a chapter or track

Press **SKIP** (▶►I) Forward or **SKIP** (I◄►) Reverse during playback to locate a chapter that you want to watch.

Each time you press the button, a chapter or track is skipped.

Zooming / Locating Desired 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.)

Zooming

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

Press **ZOOM** during playback. The center part of the image will be zoomed in.

Each press of **ZOOM** will change the ZOOM Q 1 (x 1.3), Q 2 (x 1.5) and Q 3 (x 2.0).



- Press ▲/▼ or ◀/▶ to view a different part of the frame.

 You may move the frame from the center position to UP, DOWN,

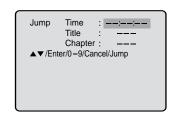
 LEFT or RIGHT direction.
- 3 In the zoom mode press ${\tt ZOOM}$ repeatedly to return to a 1:1 view (Q Off).

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.



- 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.



NOTES:

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

Repeat playback



NOTES:

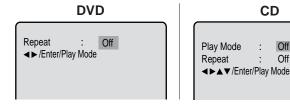
- · Some discs may not work with the repeat operation.
- In A-B repeat mode, subtitles near point A or B may not appear.
- During the A-B Repeat Playback the ANGLE feature will not operate.
- You may not be able to set A-B Repeat, depending on the scenes of the DVD.
- A-B repeat does not work with an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

Preparation:

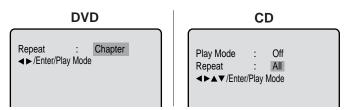
- Turn ON the TV and set it to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

Title, Chapter, Track Playback

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



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".



- Press PLAY MODE again to make the screen disappear.
 - Press PLAY to start Repeat playback.
 - To resume normal playback, select Repeat "Off".

A-B Repeat Playback

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

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



CD

Off

Off

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.



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

" Off" appears on the screen.

Program playback/Random playback (CD)



NOTES:

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

Preparation:

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

Program playback

You can arrange the order of tracks on the disc.

1 Press PLAY MODE in the stop mode.

Play Mode : Off Repeat : Off **▼** ► **▼** /Enter/Play Mode

Press ENTER repeatedly until the Program table as right appears.

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 --Clear Program Playback

▼▶▲▼/Enter/0-9/Cancel/Play Mode

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.

Press ◀/▶ to select "Random".

3 Press PLAY.

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

MP3 Playback

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

MP3 CD Information

Limitations on MP3 CD playback

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

Limitations on display

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

Notes on MP3 files

To play back MP3 CD in the recorded order.

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

CAUTION:

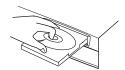
- Some MP3 CDs can not be played back depending on the recording conditions.
- . The CD-R/RW that has no music data or non-MP3 files can not be played back.

Preparation:

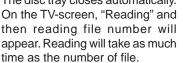
- Turn ON the TV and set it to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/ DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

Press OPEN/CLOSE.

The disc tray will open. Place a disc onto the tray.



Press PLAY or OPEN/CLOSE. The disc tray closes automatically. On the TV-screen, "Reading" and then reading file number will



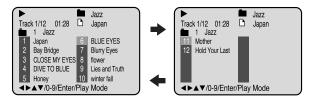


A MP3 menu screen will appear on the TV screen.

Press **◄**/**▶** or **ENTER** to select folder.



- Press \triangle/∇ or $\triangleleft/\triangleright$ 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.



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

Then press **OPEN/CLOSE**.

The disc tray opens.

Remove the disc and press POWER.

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

NOTES:

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

Marking Desired Scenes

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



NOTES:

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

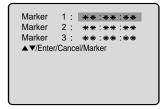
or SKIP, the MARKER screen will disappear. Press **MARKER** again as soon as you find the desired scene.

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

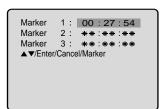
1 Press MARKER during playback.



2 Select the blank Marker using $\blacktriangle/\blacktriangledown$.

Then press **ENTER** at the desired scene.

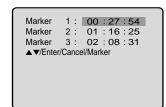
 Repeat this procedure to set the other 2 scenes.



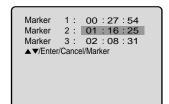
3 Press MARKER to remove this display.

Returning to the Scenes

1 Press MARKER during playback or stop mode.



Press ▲/▼ to select the Marker 1-3.



Press ENTER.
Playback starts from the marked scene.

To Cancel the Mark

- 1 Press MARKER.
- Press ▲/▼ to select the Marker 1-3.
- Press CANCEL.
 To remove this display, press MARKER.

Changing soundtrack language / Subtitles



Preparation:

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

Changing soundtrack language

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

1 Press A.MONITOR during playback.

The current soundtrack language will appear.

5:--- 2/8 Fra Dolby Digital Spatializer Off

Press A.MONITOR repeatedly until the desired language is selected.

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



In case of VIDEO CD playback

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



Turning the Subtitles On and Off

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

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



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.



NOTES:

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

Changing angles / Title selection / DVD menu



NOTE:

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

Preparation:

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

Changing Angles

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

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



2 Press ANGLE repeatedly until the desired angle is selected.

Title Selection

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

- 1 Press **TITLE** during playback. Title menu appears on the screen.
 - Press TITLE again to resume playback at the scene when you pressed TITLE.
- Press ▲/▼ or ◀/▶ to select the desired title.
- Press ENTER or PLAY.
 The playback of the selected title will start.

DVD Menu

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

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

- 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 $\blacktriangle/\blacktriangledown$ or $\blacktriangleleft/\blacktriangleright$ to select the desired item.
- Press ENTER.
 The menu continues to another screen. Repeat steps 2 and 3 to set the item completely.

Parental control

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



NOTES:

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

Preparation:

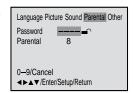
- Turn ON the TV and set to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD.
 Then press DVD to select the DVD mode. (The DVD indicator will light.)

Parental control setting

Press SETUP MENU in the stop mode.

Press ◀ or ▶ to select "Parental".

Then press ENTER.



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



- Press ▲ once to select "Password —— Then press **Number keys** to input a 4digit password (e.g.: 1234).
 - If you input a wrong number, press CANCEL.
 - Be sure to remember this number!



Level Off: The parental control setting does not function.Level 1: DVD software for adults cannot be played back.

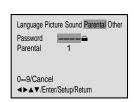
Level 8 : All DVD software can be played back.

Select from level 1 to level 8.

On a scale of 1-8, "1" is the most restrictive.

Press ENTER.

1234 change to _____



5 To make SETUP screen disappear, press SETUP MENU.

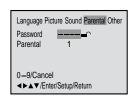
To unlock the Parental Control Setting

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



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.



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.

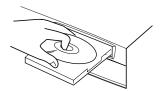


NOTE:

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.

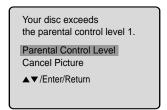
Preparation:

- 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.)
- Load a DVD disc and press PLAY or OPEN/CLOSE (see page 37).



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.





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.

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



5 Playback will commence if the entered password was correct.

Setting menu language

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



Preparation:

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

Press ◀ or ▶ to select "Language".



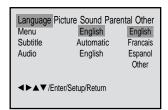
Press ENTER.
Then press ▲ or ▼ to select

"Menu".



Press ENTER.

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



English, Français, Espanol

The selected language is the first-priority Menu language.

Other: Other language can be selected (See the Language Code List on page 54).

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

Setting subtitle language

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



NOTE:

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

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"



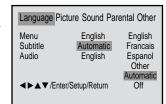
Press ENTER.

Then press ▲ or ▼ to select "Subtitle".



3 Press ENTER.

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



English, Français, Espanol

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

Other:

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

Automatic:

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

Off:

Subtitles do not appear.

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

Setting audio soundtrack language / Setting surround sound

Setting audio soundtrack language

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



NOTES:

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

To cancel Surround mode:

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

Preparation:

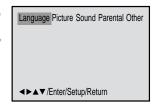
- Turn ON the TV and set to the video input mode.
- Make sure TV/VCR/DVD switch has been slided to VCR/DVD.
 Then press DVD to select the DVD mode. (The DVD indicator will light.)

1 Press **SETUP MENU** in the stop mode.

Press

or

to select "Language"



2 Press ENTER.

Then press ▲ or ▼ to select "Audio".



? Press **ENTER**.

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



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

Setting surround sound

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

During disc playback press A. MONITOR.

2 Press ▶ to select "On".



Setting the aspect ratio of TV screen

You can select the aspect ratio for your TV.



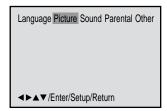
NOTE:

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

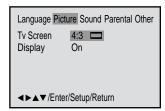
Preparation:

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

Press or to select "Picture".

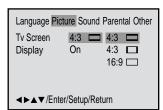


Press ENTER, then press ▲ or ▼ to select "Tv Screen".



Press ENTER.

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



You have the following screen sizes to choose from:

4:3 Normal TV

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

4:3 PAN SCAN

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

16:9 WIDE SCREEN

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

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

Setting on Screen display / Status display of Disc

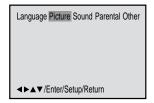
On screen display can be switched on or off when you press the buttons.



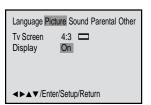
Preparation:

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

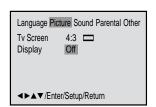
Press or to select "Picture"



Press ENTER, then press ▲ or ▼ to select "Display".



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



On: On screen displays appears when you press the any buttons (factory setting).

Off: On screen displays do not appear when you press any buttons except SETUP MENU, SEARCH MODE, PLAY MODE, MARKER and OSD.

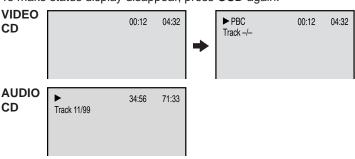
4 To make SETUP screen disappear, press **SETUP MENU**.

Status display of Disc

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



To make status display disappear, press **OSD** again.



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

Dynamic Range Control

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



NOTES:

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

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.

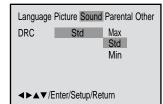
Press **◄** or **▶** to select "Sound".



Press ▼ or ENTER to select "DRC".



3 Press ▶ or ENTER, then press ▲ or ▼ to select desired setting.



Max: Full dynamic range is increased.Std: Full dynamic range is maintained.Min: Dynamic range is reduced.

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 Cod		ne 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

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 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 56 -
DVD		<u> </u>
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

Problems and troubleshooting / Video head cleaning

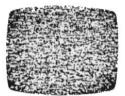
SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
Stopping playback, search, slow- motion play, repeat play, or program play, etc. cannot be performed.	Some discs may not do some of the functions.	_
No 4:3 (16:9) picture	• The setup does not match your TV.	51
No on-screen display	Select Display On.	52
No surround sound	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
	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.

Note

Auto Clock Setting

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

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

Specifications

GENERAL

Weight:

Power supply: 110-220V, 50/60 Hz
Power consumption: Operation: 22W
Stand by: 4W

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:

Audio:

Video: In: 1Vp-p/75 ohm

Out: 1Vp-p/75 ohm 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

CATV 14-36 (A)-(W) 37-59 (AA)-(WW) 60-85 (AAA)-(ZZZ) 86-94 (86)-(94) 95-99 (A-5)-(A-1) 100-125 (100)-(125)

01 (5A)

RF Channel Output: Channel 3 or 4, Switchable

F.FWD/REW Time: Approx. 1 minute 48 seconds (with T-120 Cassette Tape) (at+25°C)

DVD section

Signal system: NTSC

Applicable disc: DVD (12cm, 8cm), CD (12cm, 8cm)

Audio characteristics: DVD: 4Hz - 22KHz Frequency response: CD: 4Hz - 20KHz

S/N Ratio: 90dB Harmonic distortion: 0.02%

Wow and flutter: Below Measurable Level

Dynamic range: 90dB

Output: Video: (RCA) 1 Vp-p/75ohm

Audio: (RCA) -8 dBm/1Kohm Digital Audio: 0.5Vp-p 75 ohm

Pickup: CD: Wavelength: 775 - 805 nm

Maximum output power: 0.5 mW DVD: Wavelength: 640 - 660 nm

Maximum output power: 1.0 mW

ACCESSORIES: Remote control x 1

Batteries (2 x AA)

75 ohm Coaxial Cable x 1 AUDIO/VIDEO Cable x 1 Conversion plug x 1

MEMO







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