TOSHIBA



©2003 Toshiba Corporation This device does not tape-record copy protected DVD Video Discs.

IMPORTANT SAFEGUARDS



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
 The exclamation point within an equilateral triangle is intended.

|⚠

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, do not expose this appliance to rain or moisture.

- **CAUTION:** TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.
- **WARNING:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- **CAUTION:** Changes or modifications not expressly approved by the partly responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.
- CAUTION: THIS DIGITAL VIDEO PLAYER EMPLOYS A LASER SYSTEM.

TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS USER'S GUIDE CARE-FULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTE-NANCE, CONTACT AN AUTHORIZED SERVICE LOCATION-SEE SERVICE PROCEDURE.

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 ENCLO-SURE. VISIBLE LASER RADIATION MAY BE PRESENT WHEN THE ENCLOSURE IS OPENED. DO NOT STARE INTO BEAM.

Location of the required Marking

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

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



IMPORTANT SAFEGUARDS

1. READ INSTRUCTIONS

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

2. RETAIN INSTRUCTIONS

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

3. HEED WARNINGS

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

4. FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

5. CLEANING

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

6. ATTACHMENTS

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

7. WATER AND MOISTURE

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

8. ACCESSORIES

Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury, and serious damage to the unit.

8A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

9. VENTILATION

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

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

10. POWER SOURCE

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

11. GROUNDING OR POLARIZATION

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

12. POWER-CORD PROTECTION

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

PORTABLE CART WARNING (symbol provided by RETAC)



IMPORTANT SAFEGUARDS

13. LIGHTNING

To protect your unit from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges.

14. POWER LINES

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

15. OVERLOADING

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

16. OBJECT AND LIQUID ENTRY

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

17. OUTDOOR ANTENNA GROUNDING

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

18. SERVICING

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

- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the unit.
- c. If the unit has been exposed to rain or water.
- d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
- e. If the unit has been dropped or the cabinet has been damaged.

f. When the unit exhibits a distinct change in performance, this indicates a need for service.

19. REPLACEMENT PARTS

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

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

20. SAFETY CHECK

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

21. HEAT

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

22. DISC TRAY

Keep your fingers well clear of the disc tray as it is closing. It may cause serious personal injury.

23. CONNECTING

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

IMPORTANT SAFEGUARDS / Power source

24. LASER BEAM

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

25. DISC

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

26. NOTE TO CATV SYSTEM INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



EXAMPLE OF ANTENNA GROUNDING AS PER THE

Power source



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

TO USE AC POWER SOURCE

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

Notes:

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



Notes on handling

- When shipping the DVD/VCR, the original shipping carton and packing materials come in handy. For maximum protection, repack the unit as it was originally packed at the factory.
- Do not use volatile liquids, such as insect spray, near the DVD/VCR. Do not leave rubber or plastic products to contact the DVD/VCR for a prolonged period. They will leave marks on the finish.
- The top and rear panels of the DVD/VCR may become warm after a long period of use. This is not a malfunction.
- When the DVD/VCR is not in use, be sure to remove the disc and the video cassette turn off the power.
- If you do not use the DVD/VCR for a long period, the unit may not function properly in the future. Turn on and use the DVD/VCR occasionally.

Notes on locating

- Place the DVD/VCR on a level surface. Do not use it on a shaky or unstable surface such as a wobbling table or inclined stand. The loaded disc or the video tape may become dis-aligned and damage the DVD/ VCR.
- When you place this DVD/VCR near a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. In this case, place the DVD/ VCR away from the TV, radio, or VCR.

Notes on cleaning

Use a soft, dry cloth for cleaning.

 For stubborn dirt, soak the cloth in a weak detergent solution, wring well and wipe. Use a dry cloth to wipe it dry.

Do not use any type of solvent, such as thinner and benzine, as they may damage the surface of the DVD/VCR.

 If you use a chemical saturated cloth to clean the unit, follow that product's instructions.

To obtain a clear picture

The DVD/VCR is a high technology, precision device. If the video head, the head drum, the optical pick-up lens or disc drive parts are dirty or worn down, the picture quality will deteriorate. To obtain a clear picture, we recommend regular inspection and maintenance (cleaning or parts replacement) every 1,000 hours of use depending on the operating environment. For details, contact your nearest dealer.

Notes on moisture condensation

Moisture condensation damages the DVD/VCR. Please read the following carefully.

Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the head drum or the optical pick-up lens inside this unit, one of the most crucial internal parts of the DVD/VCR.



Moisture condensation occurs during the following cases.

- When you bring the DVD/VCR directly from a cold place to a warm place.
- When you use the DVD/VCR in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.
- In summer, when you use the DVD/VCR in a hot and humid place just after you move the unit from an air conditioned room.
- When you use the DVD/VCR in a humid place.



Do not use the DVD/VCR when moisture condensation may occur.

If you use the DVD/VCR in such a situation, it may damage discs and internal parts. Remove the disc or the video tape, connect the power cord of the DVD/ VCR to the wall outlet, turn on the DVD/VCR, and leave it for two or three hours. After two or three hours, the DVD/VCR will have warmed up and evaporated any moisture. Keep the DVD/VCR connected to the wall outlet and moisture condensation will seldom occur.





On handling discs

Do not touch the playback side of the disc.



Do not attach paper or tape to discs.



On cleaning discs

• Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outwards with a soft cloth. Always keep the disc clean.



- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.

On storing discs

- Do not store discs in a place subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

Structure of disc contents

Normally, DVD video discs are divided into titles, and the titles are sub-divided into chapters. VIDEO CDs and audio CDs are divided into tracks.

DVD video disc



Video CD/Audio CD



Each title, chapter or track is assigned a number, which is called "title number", "chapter number" or "track number" respectively.

There may be discs that do not have these numbers.

Notes on copyright

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, and rent copyrighted material without permission.

This device does not tape-record copy protected DVD Video Discs.

The device is not to be used for copying copyrighted content without the express written permission of the copyright owner.

Obtaining such permission is the sole responsibility of the user.

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, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.



About this owner's manual

This owner's manual explains the basic instructions of this DVD/VCR. Some DVD video discs are produced in a manner that allows specific or limited operation during playback. As such, the DVD/VCR may not respond to all operating commands. This is not a defect in the DVD/ VCR. Refer to instruction notes of discs.

"♥" may appear on the TV screen during operation. A "♥" means that the operation is not permitted by the DVD/VCR or the disc.

For example, sometimes it is unable to stop the playback of copyright message of the disc when the STOP (■) button is pressed. Alternatively, the "\" may also indicate that the feature is not available for the disc.

Notes on region numbers

The region number of this DVD/VCR is 1. If region numbers, which stand for their playable area, are printed on your DVD video disc and you do not find or , disc playback will not be allowed by the player. (In this case, the DVD/VCR will display a message on-screen.)

On Video CDs

This DVD/VCR supports Video CDs equipped with the PBC (Version 2.0) function. (PBC is the abbreviation of Playback Control.) You can enjoy two playback variations depending on types of discs.

• Video CD not equipped with PBC function (Version 1.1)

Sound and movie can be played on this DVD/VCR in the same way as an audio CD.

• Video CD equipped with PBC function (Version 2.0)

In addition to operation of a Video CD not equipped with the PBC function, you can enjoy playback of interactive software with search function by using the menu displayed on the TV screen (Menu Playback). Some of the functions described in this owner's manual may not work with some discs.

Playable discs

This DVD/VCR can play the following discs.

	Disc Mark	Contents	Disc Size	Maximum playback time
		Audio + Video (moving pictures)	12 cm	Approx. 4 hours (single sided disc)
DVD video				Approx. 8 hours (double sided disc)
discs			8 cm	Approx. 80 minutes (single sided disc)
				Approx. 160 minutes (double sided disc)
Video	DIGITAL VIDEO	Audio	12 cm	Approx. 74 minutes
CDs		Video (moving pictures)	8 cm	Approx. 20 minutes
Audio		Audio	12 cm	Approx. 74 minutes
CDs			8 cm (CD single)	Approx. 20 minutes
CD-R/ CD-RW		CD-DA/ JPEG/	12 cm Depending on the	
		MP3/WMA file	8 cm	recording conditions

- This unit can play back FUJICOLOR CD and Kodak Picture CD formats.
- You cannot play discs other than those listed above.
- You cannot play discs of DVD-RAM, DVD-RW, Photo CD, etc., or non standardized discs even if they may be labeled as above.
- Some CD-R/RWs can not be played back depending on the recording conditions.
- This DVD/VCR uses the NTSC color system, and cannot play DVD video discs recorded in any other color system (PAL, SECAM, etc.).



Introduction

IMPORTANT SAFEGUARDS	2
Power source	5
Precautions	6
Notes on discs	7
Contents	9
Identification of controls	10

Connections

Antenna connections	14
CATV (CABLE TV) connections	16
Connecting to a TV	18
Connecting to optional equipment	20

Basic setup

Setting the video channel	. 22
Setting the language	
Clock setting	. 24
Tuner setting	. 27

Playback (VCR)

Loading and unloading a cassette tape	29
Cassette tape playback	30
Special playback	31
Convenience function	32

Recording (VCR)

Recording a TV program	34
One-touch Timer Recording (OTR)	36
Timer recording	37

Other functions (VCR)

Stereo recording and playback	39
Second Audio Program (SAP)	39
Duplicating a video tape	40
Recording a DVD/CD disc	41

Basic playback (DVD)

Playing	a disc	 42
· ·~,		

Advanced playback (DVD)

MP3/WMA/JPEG playback Zooming Locating desired scene Marking desired scenes Repeat playback A-B Repeat playback Program playback (CD) Random playback (CD) Changing angles	50 50 51 52 52 53 53
Random playback (CD)	
Title selection DVD menu	54

Function setup (DVD)

Changing soundtrack language Setting surround sound	55
Setting subtitles	
Karaoke playback	
Setting the aspect ratio of TV screen	57
Setting on screen display	58
Status display of disc	58
Dynamic Range Control	59
Parental control setting	60
To change the parental level	61
Temporary disabling of rating level by DVD disc	62
Setting setup language	63
Setting menu language	64
Changing subtitle language	65
Setting audio soundtrack language	

Others

67
68
69
70

Introduction

Identification of controls

See the page in \bigcirc for details.







Identification of Controls (continued)

The instructions in this manual describe the functions on the remote control. See the page in
b for details.



Inserting Batteries



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 (//心) to turn the DVD VCR on or off.
- Select your desired operating mode (DVD or VCR) using VCR DVD. (DVD or VCR indicator on the front panel will show you which mode is selected.)
- Press CH + or CH to move through the channels one channel at a time.
- The CH +/- (◀ / ▶) and SET +/- (▲ / ▼) are also used to navigate on-screen menu system.
- You can directly access specific channels using Number buttons.
- Each press of VCR DVD on the remote control, 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.
- \bullet Operate the remote control within 30° angle on either side of the remote sensor, up to a distance of Approx. 7 meters.



Antenna connections

If you are using an antenna system, follow these instructions. If you are a cable (CATV) subscriber, skip ahead to page 16 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.



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.





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 premium channels which are intentionally scrambled. If you subscribe to a premium 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.

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

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





Note: This method transports VHS and DVD-video signals. For enhanced DVD-video performance, we recommend you also connect the S-video or ColorStream[®] component video outputs to your TV/monitor. (See page 19.)

Connecting to a TV



Notes:

- Refer to the owner's manual of the connected TV as well.
- When you connect the DVD/VCR to your TV, be sure to turn off the power and unplug both units from the wall outlet before making any connections.
- If your television set has one audio input, connect the left and right audio outputs of the DVD/VCR to a Y cable adapter (not supplied) and then connect to your TV.
- Connect the DVD/VCR directly to your TV. If you connect the DVD/VCR to a VCR, TV/VCR combination or video selector, the
 playback picture may be distorted as DVD video discs are copy protected.



Note: The S-video output and component video output transports the DVD-video signal exclusively and will deliver enhanced DVD video picture performance.

Component video (ColorStream®) outputs/inputs

Some TVs or monitors are equipped with component video inputs. Connecting to these inputs allows you to enjoy the highest quality DVD picture playback.

Actual labels for component video inputs may vary depending on the TV manufacturer. (ex. Y, R-Y, B-Y or Y, CB, CR) In some TVs or monitors, the color levels of the playback picture may be reduced slightly or the tint may change. In such a case, adjust the TV or monitor for optimum performance.

Notes:

- Refer to the owner's manual of the connected equipment as well.
- When you connect the DVD/VCR to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.
- If you place the DVD/VCR near a tuner or radio, the radio broadcast sound might be distorted. In this case, place the DVD/ VCR away from the tuner and radio.
- The output sound of the DVD/VCR has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.
- Turn off the amplifier before you connect or disconnect the DVD/VCR's power cord. If you leave the amplifier power on, the speakers may be damaged.
- An S-Video connection is superior to Video (Yellow) output. Use this method for DVD playback when the connected television has S-Video input, and does not have component video inputs.

Connecting to optional equipment

You can enjoy high quality dynamic sounds of DVD video discs or audio CDs by connecting the DVD/VCR to optional audio equipment.

For connection to your TV, see "Connecting to a TV" 18 19.

: Front speaker
: Rear speaker
: Sub woofer

Center speaker

🖨 : Signal flow

Connecting to an amplifier equipped with a Dolby Digital decoder

Dolby Digital

Dolby Digital is the surround sound technology used in theaters showing the latest movies, and is now available to reproduce this realistic effect in the home. You can enjoy motion picture and live concert DVD video discs with this dynamic realistic sound by connecting the DVD/VCR to a 6 channel amplifier equipped with a Dolby Digital decoder or Dolby Digital processor. If you have a Dolby Pro Logic Surround decoder, you will obtain the full benefit of Pro Logic from the same DVD movies that provide full 5.1-channel Dolby Digital soundtracks, as well as from titles with the Dolby Surround mark.

Manufactured under license from Dolby Laboratories. "Dolby" "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. ©1992-1997 Dolby Laboratories. All rights reserved.

 Use DVD video discs encoded via the Dolby Digital recording system.



Connecting to an amplifier equipped with Dolby Surround Pro Logic

Dolby Surround Pro Logic

You can enjoy the dynamic realistic sound of Dolby Surround Pro Logic by connecting an amplifier and speaker system (right and left front speakers, a center speaker, and one or two rear speakers).

- With an amplifier equipped with Dolby Digital Connect the equipment the same way as described in "Connecting to an amplifier equipped with a Dolby Digital decoder." Refer to that amplifier's owner's manual and set the amplifier so you can enjoy Dolby Surround Pro Logic sound.
- With an amplifier not equipped with Dolby Digital Connect the equipment as follows.



* Connect one or two rear speakers. The output sound from the rear speakers will be monaural even if you connect two rear speakers.

Connecting to an amplifier equipped with a DTS decoder

Digital Theater Systems (DTS)

DTS is a high quality surround technology used in theaters and now available for home use, on DVD video discs or audio CDs.

If you have a DTS decoder or processor, you can obtain the full benefit of 5.1 channel DTS encoded sound tracks on DVD video discs or audio CDs.



"DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.

 Use DVD video discs or audio CDs encoded via the DTS recording system.

Warning

When playing DTS-encoded discs (audio CDs), excessive noise may be output from the analog stereo jacks. To avoid possible damage to the audio system, you should take proper precautions when the ANALOG AUDIO OUT (L/R) jacks of the DVD/VCR are connected to an amplification system. To enjoy DTS Digital Surround[™] playback, an external 5.1 channel DTS Digital Surround[™] decoder system must be connected to the BITSTREAM/PCM AUDIO OUT jack of the DVD/VCR.

Connecting to an amplifier equipped with an MPEG2 audio decoder

MPEG2 sound

You can enjoy motion picture and live concert DVD video discs with dynamic realistic sound by connecting an amplifier equipped with an MPEG2 audio decoder or MPEG2 audio processor.



Use DVD video discs encoded via the MPEG2 recording system.

Connecting to an amplifier equipped with a digital audio input

2 channel digital stereo

You can enjoy the dynamic sound of 2 channel digital stereo by connecting an amplifier equipped with a digital audio input and speaker system (right and left front speakers).



Notes:

- DO NOT connect the BITSTREAM/PCM AUDIO OUT jack of the DVD/VCR to the AC-3 RF input of a Dolby Digital Receiver. This input on your A/V Receiver is reserved for Laserdisc use only and is incompatible with the BITSTREAM/PCM AUDIO OUT jack of the DVD/VCR.
- Connect the BITSTREAM/PCM AUDIO OUT jack of the DVD/VCR to the "OPTICAL" or "COAXIAL" input of a Receiver or Processor.
- Refer to the owner's manual of the connected equipment as well.
- When you connect the DVD/VCR to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.
- The output sound of the DVD/VCR has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.
- Turn off the amplifier before you connect or disconnect the DVD/VCR's power cord. If you leave the amplifier power on, the speakers may be damaged.





Setting the language

Setting the language

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





between the built-in clock time and the actual time.

To set STANDARD TIME To set DAYLIGHT SAVING TIME In the rare event that you live within broadcast range of two You can set the DAYLIGHT SAVING TIME automatically or stations in two different time zones, the DVD/VCR may manually. recognize the wrong station for the AUTO CLOCK setting. To correct the situation: Press VCR MENU. Press SET + or - to select "SYSTEM SETUP", Press VCR MENU. MENU then press ENTER. TIMER REC SET AUTO REPEAT SAP CH SETUP ON ►OFF ON ►OFF VCR MENU VCR MENU SETUP SETUP SYSTEM SETUP MENU IMER REC SET ON ► OFF ON ► OFF (+/-/ENTER/MENU) SAP CH SETUP SET + SYSTEM SETUP (ENTER) Press SET + or - to select "SYSTEM SETUP", (+/-/ENTER/MENU) SET then press ENTER. • MENU Press SET + or - to select "DAYLIGHT TIMER REC SET ON ► OFF SAVING TIME", then press ENTER. SAP CH SETUP ENTER SYSTEM SETUP SET SYSTEM SETUP SET + CLOCK SET LANGUAGE/IDIOMA/LANGUE (+/-/ENTER/MENU) NONOISE BACKGROUND NO NOISE BACKGROUND NO OFF AUTO CLOCK ON OFF AUTO CLOCK ON OFF AUTO CLOCK ON OFF AUTO CLOCK ON OFF ENTER SET Press SET + or - to select "STANDARD TIME", then press ENTER. (+/-/ENTER/MENU) SET + SYSTEM SETUP SYSTEM SETUP ■ CLOCK SET ■ LANGUAGE/IDIOMA/LANGUE ■ NO NOISE BACKGROUND ■ ON OFF ■ AUTO CLOCK ■ ON OFF ■ STANDARD TIME ■ CONVIGENTE SAUNG TIME Press SET + or - to select one of the ENTER options, then press ENTER. Press VCR DAYLIGHT SAVING TIME MENU until the MENU screen is cleared. (+/-/ENTER/MENU) ON: for manual setting (forward one hour) Press SET + or - to select your time zone, for manual setting OFF: VCR MENU SETUP then press ENTER. (back one hour) AUTO: for automatic setting SET * ATLANTIC : GMT-4hours (read XDS in the signal) : GMT-5hours EASTERN When you want to set the DAYLIGHT ENTER SET * CENTRAL : GMT-6hours SAVING TIME manually, on the first MOUNTAIN : GMT-7hours Sunday in April you set to "ON", and • ENTER PACIFIC : GMT-8hours on the last Sunday in October you set SET -ALASKA : GMT-9hours to "OFF". HAWAII : GMT-10hours AUTO : AUTO SET DAYLIGHT SAVING TIME (GMT: Greenwich Mean Time) ON OFF Press VCR MENU twice to return to the ► AUTO normal screen. (+/-/ENTER/MENU) VCR MENU SETUP Notes: When shipped from factory, the DAYLIGHT SAVING TIME is Notes: set to "AUTO" position.

- To be able to select the standard time, the clock must first be set by AUTO CLOCK once.
- If you live in Newfoundland and the AUTO CLOCK does not . function properly, set the AUTO CLOCK menu option to "OFF" and set the clock manually.

When there is no DAYLIGHT SAVING TIME in your area, al-25

When the clock is not set, DAYLIGHT SAVING TIME setting

is not available.

ways select "OFF" position in step 3.





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't select "CH SETUP" if you set the channel to "L1" or "L2".





Use only video cassette tapes marked VHS and SVHS.

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.

 $\circ \circ \bullet$





EJECT

Automatic power ON

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

Automatic playback

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

Unloading

Press **EJECT** on the front panel or on the Remote.





Remove the cassette tape.



Automatic tape eject

This DVD/VCR will automatically rewind the tape when the tape has ended. Once the tape is rewound to its beginning, the cassette tape will be ejected automatically.

To prevent accidental erasure

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 Speed	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
SLP (Super Long Play)	8 hours	6 hours	4-1/2 hours	3 hours	1-1/2 hours





Rewind or forward the tape Playback Preparation: Stop the playback or recording via STOP on remote. • Turn ON the TV and select the corresponding video input. Press VCR DVD selector to select the VCR mode. To rewind the tape: (The VCR indicator will light). Press REW. Load a prerecorded tape REW 44 (When loading a cassette tape without the erase prevention tab, playback will start automatically). To forward the tape: Press FWD. •• FWD To start playback 2 Press PLAY. Playback will start. " ▶ " will appear on the screen for about 4 seconds. ► To discontinue 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 To stop playback search mode (see next page). To do this, press REW or Press STOP once. FWD and hold it down. The unit will resume the tape The tape will stop but remain fully advance or rewinding as soon as the button is released. loaded and ready to play. " will appear on the screen for about 4 seconds. STOP

Notes:

- This VCR selects the playback tape speed SP, LP or SLP automatically.
- The Cassette tape and DVD disc can be played back simultaneously. If you press VCR DVD selector, the tape playback and DVD playback alternate with each other on the screen (via CH3, 4 or video connection).
- When you select the VCR mode during DVD playback, DVD playback will stop automatically after approx. 5 minutes.





Picture search

Reverse picture search function

Press REW once or twice during playback.

Forward picture search function

Press FWD once or twice during playback.

To return to playback, press **PLAY**.

SPEED SEARCH TIMES

TAPE SPEED	PICTURE SEARCH SPEED		
TAPE SPEED	PRESS ONCE	PRESS TWICE	
SP (Standard Play)	3 X	5 X	
LP (Long Play)	7 X	9 X	
SLP (Super Long Play)	9 X	15 X	

Still picture

Press PAUSE during playback.

To resume normal playback, press PLAY or PAUSE/STILL.

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 +** *I*– to reduce the noise bars. If the still picture jitters excessively, press **SET +***I*– to stabilize the still picture.

Frame by frame picture

Press PAUSE/STILL during playback.

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

To return to playback, press PLAY or PAUSE/STILL.

CM skip

Press **CM SKIP** during playback. The DVD/VCR will search forward through approximately 30 seconds of the tape (e.g. unwanted commercial time) for each press of **CM SKIP** (maximum six presses) and then resume normal playback.

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

Adjusting tracking condition

Automatic tracking adjustment

Whenever you insert a tape and start playback, the automatic tracking feature 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 noise. "MANUAL TR." will appear on the screen. Press it briefly for a fine adjustment, or press and hold for a coarse adjustment.

Press **ATR** to reactivate automatic tracking again. "AUTO TR." will appear on the screen.



Notes:

- The audio output is muted during SPEED SEARCH, STILL, FRAME ADVANCE and SLOW MOTION.
- During picture search mode there will be noise bars. This is not a defect.
- Playback will commence after approx. 5 minutes to protect the video tape against excessive wear during pause mode.

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 displayed. 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 and cleaned 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.





Zero return function

automatically.

This function rewinds the tape to the "00:00:00" counter position

Repeat playback

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



To cancel repeat mode:

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



Clock/counter display

Press **CLOCK/COUNTER**. The clock and tape counter alternate with each other in the display window.



Notes:

- If you rewind the tape beyond "00:00:00", a minus sign ("-") will be displayed in front of the time.
- 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.

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 +.

For Preceding programs: Press INDEX –.

(As many as 9 index points can be accessed via this method.)

When the **INDEX** + or – is pressed, the unit starts searching the INDEX NO. selected and finds the portion, then playback starts automatically. To stop the Index Search, press **STOP**.

STOP



Notes:

_INDEX SKIP

-

• When you record an INDEX mark at the very beginning of the tape, the mark may not be found.

INDEX+ SKIP

▶▶

- 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.

SQPB (S-VHS Quasi Playback)

You can playback video cassette tapes recorded in the S-VHS system.

However, the picture will not have the high resolution of S-VHS system.

Note: You cannot record S-VHS video format with this VCR.

CH 001





To stop recording

STOP

Press STOP to stop recording.

" " will appear on screen for about 4 seconds.

To stop recording temporarily

Press PAUSE/STILL to avoid recording unwanted material. Press again to continue the recording.



•II

Notes:

- 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, select your desired channel on the TV.

When a TV is connected with an antenna cable only, press TV/VCR to select the TV position.

The "VCR" display will go off and recording will continue. Select the TV channel you want to watch by using the TV channel selector.

Note:

Some CATV hookups do not permit viewing one channel while recording another. See pages $|16\rangle$ and $|17\rangle$.

Auto Rewind feature

This VCR will automatically rewind the tape when the tape has ended (except during OTR and timer recording). It will also eject the tape.



" will appear on screen for about 4 seconds.

Note:

If you wish to watch the DVD playback during OTR or standard recording, press **VCR DVD** selector to change to DVD mode and perform the DVD playback **43**.




• During timer recording the automatic rewinding mechanism does not function.

Notes:

- If there are other timer record programs remaining, TIMER **REC** 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 correct or cancel a programmed setting in program confirm mode.

Stereo recording and playback / Second 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, "STEREO" will appear on the screen for about 4 seconds and the program can be viewed or recorded in stereo. The Hi-Fi stereo recording procedure is the same as for normal recordings.

STEREO

Note:

When using a CATV system, stereo TV programs may be transmitted over a mono cable channel. In this case "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 **AUDIO SELECT** to select how the audio will be heard through the speakers. Normally set to the Hi-Fi stereo position, this button can be set to the MONO position if the stereo broadcast or videotape audio is of poor quality. The "R" and "L" positions allow the audio from the Right or Left Hi-Fi channel to be heard over both TV speakers. This button has no effect when viewing a MONO videotape or TV program. Each time when you press the button, OUTPUT SELECTION display appears on the screen for several seconds. Refer to the chart below.

OUTPUT	SOUND HEARD ON BOTH
SELECTION	SPEAKERS
STEREO	STEREO
L CH	LEFT CHANNEL AUDIO
R CH	RIGHT CHANNEL AUDIO
MONO	MONO

Second Audio Program (SAP)

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

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



Listening to SAP

When the VCR is turned on or a channel selection is made, make certain the letters "SAP" appears on the screen for about 4 seconds. This means that the "Second Audio Program" broadcasting is available.



OR

SAP

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 cable not connected), the sound will be monaural.



Recording a DVD/CD disc

You can record disc material in DVD, Audio CD, etc. onto a Video tape with this DVD/VCR.



Duplicating a DVD or CD disc





- You may not be able to record the beginning of the disc. Begin VCR recording once program playback commences on the DVD.
 - You can not record discs encorded with copy guard function. The following icon and text will show up on the TV screen.



DISC IS COPY PROTECTED





This section shows you the basics on how to play a disc.

CAUTION

Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.



Basic playback

Preparations:

- When you want to view a disc, turn on the TV and select the corresponding video input connected to the DVD/VCR. This
 may include S-video or component video inputs which are exclusive to DVD playback.
- When you want to enjoy the sound of discs from the audio system, turn on the audio system and select the input connected to the DVD/VCR.



To start playback in the stop m Press PLAY.



To obtain a higher quality picture

Occasionally, some picture noise not usually visible during a normal broadcast may appear on the TV screen while playing a DVD video disc because the high resolution pictures on these discs include a lot of information. While the amount of noise depends on the TV you use with this DVD/VCR, you should generally reduce the sharpness adjustment on your TV when viewing DVD video discs.

About IVD VCD CD

To pause playback (still mode) Press PAUSE/STILL during playback.

ess PAUSE/STILL during playback

mode.



To resume normal playback, press the PLAY button. • The sound is muted during still

To stop playback Press STOP.



To remove the disc Press OPEN/CLOSE.



Remove the disc after the disc tray opens completely.



Be sure to press the OPEN/CLOSE button to close the disc tray after you remove the disc.

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 8 and 60).
- Some discs may take a minute or so to start playback.
- When you set a single-faced disc label downwards (ie. the wrong way up) and press the OPEN/CLOSE button or the PLAY button on the unit, "Reading" will appear on the display for 30 seconds and then "Incorrect Disc" will continue to be displayed.
- Some playback operations of DVDs may be intentionally fixed by software producers. Since this unit 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.
- Do not move the DVD/VCR during playback. Doing so may damage the disc.
- Use the OPEN/CLOSE button to open and close the disc tray. Do not push the disc tray while it is moving. Doing so may cause the DVD/VCR to malfunction.
- Do not push up on the disc tray or put any objects other than discs on the disc tray. Doing so may cause the DVD/VCR to malfunction.
- In many instances, a menu screen will appear after playback of a movie is completed. Prolonged display of an on-screen menu may damage your television set, permanently etching that image onto its screen. To avoid this, be sure to press the ON/STANDBY (I / 心) button on your remote control once the movie is completed.
- During the DVD playback if you change the operating mode from DVD to VCR, the DVD will continue to play back the disc and stop after about 5 minutes.
- There may be a slight delay between you pressing the button and the function activating.

Playing a Disc while the VCR section is recording or standing by for timer recording A Start to record

1) Start to record.

- Follow steps 1~5 on page 34. • If the DVD/VCR is standing by for rec
- If the DVD/VCR is standing by for recording, turn on the DVD/VCR.
- Press VCR DVD selector to select DVD mode. The DVD indicator will light.
- 3) Play a disc.
 - Follow steps 3 ~ 5 on page 42.
 - Press PLAY if the DVD/VCR does not start to play a disc automatically.
- 4) Stop to play.
 - Press STOP to stop play back a disc.





Playing in fast reverse or fast forward directions

Press REW or FWD during playback.



REW: Fast reverse playback **FWD**: Fast forward playback

Each time you press the REW or FWD button, the playback speed changes.

To resume normal playback Press PLAY.



Notes:

- The DVD/VCR mutes sound and subtitles during reverse and forward scan of DVD video discs. However, the DVD/ VCR plays sound during fast forward or fast reverse play of audio CDs.
- The playback speed may differ depending on the disc.

Playing frame by frame

Press PAUSE/STILL during still playback.

PAUSE/STILL

Each time you press the PAUSE/ STILL button, the picture advances one frame.

To resume normal playback Press PLAY.



The sound is muted during frame by frame playback.

Playing in slow-motion

Press SLOW during playback.



Each time you press the SLOW button, the slow-motion speed changes.

To resume normal playback



Note:

The sound is muted during slow-motion playback.

Eccating a chapter or track

Press SKIP I or by repeatedly to display the chapter or track number you want.

Playback starts from the selected chapter or track.



To locate succeeding chapters or tracks.



Playback starts from the beginning of the current chapter or track. When you press twice in quick succession

When you press twice in quick successions, playback starts from the beginning of the preceding chapter or track.

Notes:

- A "Prohibition" symbol w 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.
- 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.



JPEG file is played back.





Setting the JPEG Interval

You can continuously play back all JPEG files automatically. After the setting below, start playing the disc on which JPEG files have been recorded.



MP3/WMA/JPEG playback (continued)

Setting the Select Files

When playing back a CD containing a mixture of MP3, WMA and JPEG files, only MP3/WMA or JPEG files can be displayed on the file menu.

SETUP ENTER ▲/▼/◀/►





Zooming (JPEG CD)

This unit will allow you to zoom in on the JPEG image.



(IPEG CD) (IPEG CD)

You can display JPEG images rotating at 90 degree intervals.





Press \blacktriangle / \checkmark / \checkmark / \checkmark to view a different part of the Press ZOOM during playback. frame. CM SKIP The centre part of the image will be SET + ZOOM You may move the frame from the zoomed in. Each press of ZOOM will change the CH + centre position to UP, DOWN, LEFT or \triangleright **RIGHT** direction. ZOOM Q1 (x 1.3), Q2 (x 1.5) and Q3 SET (x 2.0). In the zoom mode press ZOOM repeatedly to Q1 return to a 1:1 view (\bigcirc Off). CM SKIP ZOOM

Notes:

- You can select the Pause, Slow or Search playback in the zoom mode.
- Some discs may not respond to zoom feature.

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 **DISPLAY**.



Note:

In case of the Video-CD playback with PBC, the JUMP does not work.



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.

Repeat playback/A-B Repeat playback





Some discs may not work with the repeat operation.

Notes:

- In A-B repeat mode, subtitles near point A or B may not appear.
- A-B Repeat playback is not available in multi-angle scenes.
- 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/ WMA/JPEG CD and Video CD with PBC.



Advanced playback (DVD)

Changing angles/Title selection/DVD menu

Changing Angles

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



Description 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.



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 menu.





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



Changing soundtrack language/ Setting surround sound



Changing soundtrack language

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



Setting surround sound

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

During disc playback press AUDIO. AUDIO SELECT AUDIO AU		■ To cancel Surround mode: Follow the left steps 1~2, then press
9 Press ∢ or ▶ to se	elect "On".	
CH+ CH+ CH+ CH+ EVTER CH+ F CH+ F CH+ CH+ CH+ CH+ CH+ CH+ CH+ CH+	التج 1/8 Eng Dolby Digital Spatializer On	Spatializer [®] 3-Dimensional Sound Processing provided by Desper Products. Inc. Certain audio features of this product manufactured under a license from Desper Products, Inc., Spatializer [®] and the circle-in-square device are trademarks owned by Desper Products, Inc.

55

Setting subtitles/Karaoke playback



I Turning the subtitles on and off

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



Note:

Depending on the DVD, you may not be able to turn the subtitles on even if they are recorded on it. Depending on the DVD, you may not be able to turn the subtitles off.

Changing the subtitle language

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



🚥 Karaoke playback

You can turn the vocal on or off recorded on the DVD KARAOKE.





Setting on screen display/Status display of disc



Setting on screen display On screen display can be switched on or off when you press the buttons. Press SETUP in the stop mode or No Disc. Press ✓/ >> or ENTER to select "On" or "Off". Press or to select "Picture". Language Picture Sound Parental Other VCR MENU SETUP Language Picture Sound Parental Other 4.3 Tv Screen CH-CH * (ENTER) Display Off JPEG Interval Off Select Files All ▲►▲▼/Enter/Setup/Return ▲▼/Enter/Setup/Return CH-CH * On: On screen displays appear when you press the buttons (factory setting). Off: On screen displays do not appear when you Press ▼ or ENTER, then press ▲ or ▼ to select press any buttons. "Display". SET + Language Picture Sound Parental Other To make SETUP screen disappear, press SETUP or Δ Tv Screen 4:3 🗖 RETURN while the SETUP screen is being displayed. ENTER Display On Off JPEG Interval VCR MENU Select Files All SETUP ▲▼/Enter/Setup/Return RETURN

Status display of disc











62









Language code list

Enter the appropriate code number for the initial settings "Menu", "Subtitle" and/or "Audio" (see pages 64-66).

Language code list

Language Name	e Code	Language Name	e Code	Language Name	Code	Language Name	Code
Abkhazian	1112	Fiji	1620	Lingala	2224	Singhalese	2919
Afar	1111	Finnish	1619	Lithuanian	2230	Slovak	2921
Afrikaans	1116	French	1628	Macedonian	2321	Slovenian	2922
Albanian	2927	Frisian	1635	Malagasy	2317	Somali	2925
Amharic	1123	Galician	1722	Malay	2329	Spanish	1529
Arabic	1128	Georgian	2111	Malayalam	2322	Sundanese	2931
Armenian	1835	German	1415	Maltese	2330	Swahili	2933
Assamese	1129	Greek	1522	Maori	2319	Swedish	2932
Aymara	1135	Greenlandic	2122	Marathi	2328	Tagalog	3022
Azerbaijani	1136	Guarani	1724	Moldavian	2325	Tajik	3017
Bashkir	1211	Gujarati	1731	Mongolian	2324	Tamil	3011
Basque	1531	Hausa	1811	Nauru	2411	Tatar	3030
Bengali; Bangla	1224	Hebrew	1933	Nepali	2415	Telugu	3015
Bhutani	1436	Hindi	1819	Norwegian	2425	Thai	3018
Bihari	1218	Hungarian	1831	Oriya	2528	Tibetan	1225
Breton	1228	Icelandic	1929	Panjabi	2611	Tigrinya	3019
Bulgarian	1217	Indonesian	1924	Pashto, Pushto	2629	Tonga	3025
Burmese	2335	Interlingua	1911	Persian	1611	Turkish	3028
Byelorussian	1215	Irish	1711	Polish	2622	Turkmen	3021
Cambodian	2123	Italian	1930	Portuguese	2630	Twi	3033
Catalan	1311	Japanese	2011	Quechua	2731	Ukrainian	3121
Chinese	3618	Javanese	2033	Rhaeto-Romano	ce2823	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

Before calling service personnel

Check the following guide for the possible cause of a problem before contacting service.

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. 	
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. 	
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. 	14~19 _ 31,44
The remote control does not function.	 Aim at the remote control at the remote sensor. Operate within Approx. 7 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. 	13
No CATV reception.	Check all CATV connections. Station or CATV system problems, try another station.	16,17
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. 	29,34
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 (2) is not lit). 	24 37 37
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. 	31 31 -
DVD		
Display is not shown in your language.	Select proper language in the menu options.	63
Playback doesn't start.	 No disc is inserted. The disc may be dirty. Clean up the disc. The unit cannot play DVD-ROMs, etc. 	42 6 8
Stopping playback, slow-motion play, repeat play, or memory play, etc. cannot be performed.	Some discs may not do some of the functions.	_
No picture	The S-VIDEO/COMPONENT selector is not set correctly	19
No 4:3 (16:9) picture.	The setup does not match your TV.	57
No on-screen display.	Select Display "On".	
No surround sound.	The setup does not match your stereo system.	
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.	60,61
Audio soundtrack and/or subtitle language is not changed when you play back a DVD.	Multilingual language is not recorded on the DVD disc.	65,66
No subtitle.	Some discs have no subtitles. Subtitles are cleared. Press SUBTITLE.	56
Angle cannot be changed.	Multi-angles are not recorded on the DVD disc.	54
₩ appears on the screen.	The function is prohibited with the unit or the disc.	44



General

AC 120 V 60 Hz		
Operation: 18 W, Stand by: 2 W		
7.9 lbs (3.6 kg)		
Width: 16-15/16 inches (430 mm)		
Height: 3-7/8 inches (99 mm)		
Depth: 9-7/8 inches (251.5 mm)		
181 channel freq. synthesized		
VHF 2-13		
UHF 14-69		
CATV 125 Channels		
UHF/VHF In/Out: 75 Ω coaxial		
Channel 3 or 4, Switchable		
NTSC		
4 Rotary heads		
Hi-Fi sound - 2 Tracks / MONO sound - 1 Track		
20 Hz to 20,000 Hz		
More than 90 dB		
Approx. 1 minute and 48 seconds (with T-120 Cassette Tape)		
DVD (12 cm, 8 cm), CD (12 cm, 8 cm)		
DVD: 4 Hz-22 kHz, CD: 4 Hz-20 kHz		
90dB (DVD)		
0.02% (DVD)		
Less than 0.01% Wrms		
Temperature: 5°C-40°C (41°F-104°F), Operating status: Horizontal		

Input/Output

DVD/VCR		
Video input	1.0 V (p-p), 75 Ω, negative sync., pin jack x 2	
Video output	1.0 V (p-p), 75 Ω, negative sync., pin jack x 1	
Audio input	–8 dBm, 50 kΩ, negative sync., pin jack (L/R) x 2	
Audio output	-8 dBm, 1 k Ω , negative sync., pin jack (L/R) x 1	
DVD		
S-video output	 (Y) 1.0 V (p-p), 75 Ω, negative sync., Mini DIN 4-pin × 1 (C) 0.286 V (p-p), 75 Ω 	
Component video output	 (Y) 1.0 V (p-p), 75 Ω, negative sync., pin jack × 1 (P_B)/(P_R) 0.7 V (p-p), 75 Ω, pin jack × 2 	
Audio output (BITSTREAM/PCM COAXIAL)	0.5 V (p-p), 75 Ω, pin jack × 1	
Audio output (BITSTREAM/PCM OPTICAL)	Optical connector × 1	
Audio output (ANALOG)	-12 dB, 1 kΩ, pin jacks (L, R) × 1	
Supplied accessories		

Supplied accessories

Audio/video cable 1	
Remote control (SE-R0109) 1	
Batteries (AAA) 2	
75 ohm coaxial cable 1	

• Designs and specifications are subject to change without notice.

LIMITED WARRANTY DVD VIDEO PLAYER

Toshiba America Consumer Products, Inc. ("TACP"), Toshiba Hawaii ("THI") and Toshiba Canada Limited ("TCL") make the following limited warranties. These limited warranties extend to original purchaser or any person receiving this set as a gift from the original purchaser and to no other purchaser or transferee.

Limited Ninety (90) Day Warranty

TACP/THI warrant this product against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. During this period, TACP/ THI will repair or replace a defective product or part, at their option, with a new or refurbished product or part without charge to you. You must deliver the entire product to a TACP/THI Authorized Service Station. You are responsible for all transportation and insurance charges for the unit to and from the Authorized Service Station. If you live in the U.S.A. you may, at your option, return your DVD Unit to:

Toshiba America Consumer Products Inc. Returns Center 1420C Toshiba Dr. Lebanon, TN 37087

Upon receipt we will, at our option, exchange the DVD Unit with a new or refurbished unit. Canadian consumers are requested to contact TCL. In Hawaii consumers are requested to contact THI.

Limited One (1) Year Warranty

TACP/THI further warrant the parts in this product against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. During this period, TACP/THI will repair or replace a defective product or part, at their option, with a new or refurbished product or part without charge to you, except that if a defective part is replaced after ninety (90) days from the date of the original retail purchase you pay labor charges involved in the replacement. You must also deliver the entire product to a TACP/THI Authorized Service Station. You are responsible for all transportation and insurance charges for the unit to and from the Authorized Service Station. If you live in the U.S.A. you may, at your option, return your DVD Unit to:

Toshiba America Consumer Products Inc. Returns Center 1420C Toshiba Dr. Lebanon, TN 37087

Upon receipt we will, at our option, exchange the DVD Unit with a new or refurbished unit. Canadian Consumers are requested to contact TCL. In Hawaii consumers are requested to contact THI.

Rental Units

The warranty for rental units begin with the first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

Commercial Units

Products sold and used for commercial use have a limited ninety (90) day warranty for all parts and labor.

Owner's Manual

You should read the owner's manual thoroughly before operating this product. You should complete and mail the enclosed Demographic card within ten (10) days after you, or the person who has given you this product as a gift, purchased this product. This is one way to enable TACP to provide you with better customer service and improved products. Failure to return the card will not affect your rights under this warranty.

Your Responsibility

The above warranties are subject to the following conditions:

- (1) You must retain your bill of sale or provide other proof of purchase.
- (2) You must notify a TACP/THI/TCL /Authorized Service Station within thirty (30) days after you discover a defective product or part.
- (3) All warranty servicing of this product must be made by a TACP/THI/TCL Authorized Service Station.
- (4) U.S.A. warranties are effective only if the product is purchased and operated in the Continental U.S.A. or Puerto Rico.
- (5) Labor service charges for set installation. Set up, adjustment of customer controls and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility.
- (6) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any product or parts which have been lost or discarded by you or to damage to products or parts caused by misuse, accident, damage caused by Acts of God, such as lighting or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by us; or to units which have been altered or modified without authorization of TACP/ THI/TCL or to damage to products or part thereof which have had the serial number removed, altered, defaced or rendered illegible.
- (7) Should you elect to return your DVD Unit to TACP after the ninety (90) days and within one (1) year, or after the warranty period has expired: Call (800)-631-3811 to receive information concerning an exchange price. Payment must be enclosed with product in the form of a certified check or money order including reason for return.
- (8) Physically damaged DVD Units are not acceptable for repair or exchange whether in or out of warranty and will be returned as received.

(Continued)

LIMITED WARRANTY DVD VIDEO PLAYER (continued)

How to Obtain Warranty Service

- (1) Refer to the troubleshooting guide in your owner's manual. This check list may solve your problem.
- (2) In the U.S.A., only call the TACP toll free number 800-631-3811, or if in Hawaii or Canada see listing below within (30) days after you find a defective product or part.
- (3) Arrange for the delivery of the product to the TACP/THI/TCL Authorized Service Station or TACP Return Center. Products shipped to the Service Station must be insured and safely and securely packed, preferably in the original shipping carton, and a letter explaining the defect and also a copy of the bill of sale or other proof of purchase must be enclosed.



All warranties implied by state law, including the implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of the limited warranties set forth above. With the exception of any warranties implied by state law as hereby limited, the foregoing warranty is exclusive and in lieu of all other warranties, guarantees, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall TACP/THI be liable for consequential or incidental damages.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of TACP/THI arising under the warranty or under any statute, or law of the United States or any state thereof, is hereby limited to ninety (90) days from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under state law.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. Some states do not allow limitation on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages, so the above provisions may not apply to you.

ATTENTION CANADIAN CONSUMERS:

Canadian consumers are requested to complete the special Canadian "Warranty Registration Form" enclosed, and forward this completed form with a copy of bill of sale to TOSHIBA OF CANADA to "Register and Validate" their warranty. Product must be purchased from an Authorized Canadian Dealer. Products purchased in the U.S.A. and used in Canada are not covered by these warranties.

IMPORTANT: PACKING AND SHIPPING INSTRUCTION

When you send the product to a Service Station, you must use the original carton box and packing material, then insert the original carton box containing the unit into another carton using more packing material.

TOSHIBA



Printed in Thailand

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