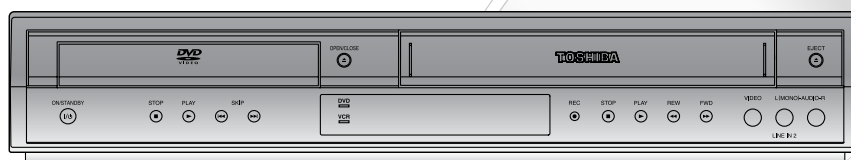# TOSHIBA

DVD VIDEO PLAYER & VIDEO CASSETTE RECORDER

SD-K530SU

OWNER'S MANUAL

VHS Hi-Fi SQPB

Before connecting, operating or adjusting this product, please read this instruction booklet carefully and completely.

©2004 Toshiba Corporation
This device does not tape-record copy protected DVD Video Discs.

Safety Precautions

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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.

This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

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

WARNING: TO REDUCE THE RISK OF FIRE OR ELEC-TRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

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

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

WARNING: Do not install this equipment in a confined space such as a book case or similar unit.

NOTE TO CABLE/TV INSTALLER: This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code 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 the cable entry as practical.

CAUTION:

This DVD+VCR employs a Laser System.

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference should the unit require maintenance, contact an authorized service location.

Use of controls, adjustments, or the performance of proce-dures other than those specified herein may result in haz-ardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

CAUTION: The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.

FCC WARNING: This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifi-cations are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

REGULATORY INFORMATION: FCC Part 15
This product 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 when the product is operated in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product 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 product and receiver.
- Connect the product 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.

 NOTES ON COPYRIGHTS:
It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyrighted material without permission.
This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs on a VCR, picture noise will appear.
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 tech-nology 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.

SERIAL NUMBER: The serial number is found on the back of this unit. This number is unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase.
Model No. _____
Serial No. _____

2

IMPORTANT SAFETY INSTRUCTIONS

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use, and servicing.

This unit does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

1. **Read Instructions**
   All safety and operating instructions should be read before the product is operated.

2. **Retain Instructions**
   The safety and operating instructions should be retained for future reference.

3. **Heed Warnings**
   All warnings on the product and in the operating instructions should be adhered to.

4. **Follow Instructions**
   All operating and use instructions should be followed.

5. **Power Sources**
   This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply in your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

6. **Grounding or Polarization**
   Do not defeat the safety purpose of the polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

7. **Ventilation**
   Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

8. **Heat**
   Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. **Water and Moisture**
   Do not use this apparatus near water. For example: near a bath tub, wash bowl, kitchen sink, Laundry tub, in a wet basement; or near a swimming pool.

10. **Cleaning**
    Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Clean only with dry cloth.

11. **Power-Cord Protection**
    Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

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

13. **Lightning**
    Unplug this apparatus apparatus during lightning storms or when unused for long periods of time. This will prevent damage to the product due to lightning and power-line surges.

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

15. **Attachments**
    Only use attachments/accessories specified by the manufacturer.

16. **Accessories**
    Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

    PORTABLE CART WARNING

17. **Disc Tray**
    Keep your fingers well clear of the disc tray as it is closing. It can cause personal injury.

18. **Burden**
    Do not place a heavy object on or step on the product. The object may fall, causing serious personal injury and serious damage to the product.

19. **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.

20. **Sound Volume**
    Reduce the volume to the minimum level before you turn on the product. Otherwise, sudden high volume sound may cause hearing or speaker damage.

21. **Sound Distortion**
    Do not allow the product to output distorted sound for a longtime. It may cause speaker overheating and fire.

22. **Earphone**
    When you use the earphone, keep the volume at a moderate level. If you use the earphone continuously with high volume sound, it may cause hearing damage.

23. **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.

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

25. **Damage Requiring Service**
    Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normal, or has been dropped.

26. **Servicing**
    Do not attempt to service this product yourself as opening or removing the cover may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

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

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

Table of Contents

About the symbols for instructions

⚠ Indicates hazards likely to cause harm to the unit itself or other material damage.

🅽 Indicates special operating features of this unit.

🆃 Indicates tips and hints for making the task easier.

Before Use

Playable Discs

DVD VIDEO™	DVD (8 cm/12 cm disc)
COMPACT disc DIGITAL VIDEO	Video CD (VCD) (8 cm / 12 cm disc)
COMPACT disc DIGITAL AUDIO	Audio CD (8 cm/12 cm disc)

In addition, this unit can play a DVD-R, CD-R or CD-RW that contains audio titles, MP3 or JPEG files.

Ⓝ Notes
- Depending on the conditions of the recording equipment or the CD-R/RW disc itself, some CD-R/RW discs cannot be played on the unit.
- The unit cannot play discs that contain data other than MP3 and CD-DA data.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal). It may result in malfunctions.

Ⓝ Notes on DVDs and Video CDs
Some playback operations of DVDs and Video CDs may be intentionally fixed by software manufacturers. As this unit plays DVDs and Video CDs according to disc content designed by the software manufacturer, some playback features of the unit may not be available, or other functions may be added.
Refer also to the instructions supplied with the DVDs and Video CDs. Some DVDs made for business purposes may not be playable on this unit.

Regional code of the DVD+VCR and DVDs
This DVD+VCR is designed and manufactured for playback of region 1 encoded DVD software. The region code on the labels of some DVD discs indicates which type of DVD+VCR can play those discs. This unit can play only DVD discs labeled 1 or ALL. If you try to play any other discs, the message "Check Regional Code" will appear on the TV screen. Some DVD discs may not have a region code label even though their playback is prohibited by area limits.

Ⓝ Note on DTS-encoded CDs
When playing DTS-encoded CDs, excessive noise may be exhibited from the analog stereo output. To avoid possible damage to the audio system, turn down the volume before playing back such discs, adjust the volume gradually, and keep the volume level low. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the digital output of the unit.

Disc-related terms

Title (DVD only)
The main film content or accompanying feature content or music album.
Each title is assigned a title reference number enabling you to locate it easily.

Chapter (DVD only)
Sections of a picture or a musical piece that are smaller than titles. A title is composed of one or several chapters. Each chapter is assigned a chapter number to enable you to locate the chapter you want. Depending on the disc, chapters may not be recorded.

Track (Video CD and audio CD only)
Sections of a picture or a musical piece on a video CD or an audio CD. Each track is assigned a track number, enabling you to locate the track you want.

Scene
On a video CD with PBC (Playback control) functions, moving pictures and still pictures are divided into sections called "Scenes". Each scene is displayed in the menu screen and assigned a scene number, enabling you to locate the scene you want.
A scene is composed of one or several tracks.

Types of video CDs

There are two types of video CDs:

Video CDs equipped with PBC (Version 2.0)
PBC (Playback control) functions allow you to interact with the system via menus, search functions, or other typical computer-like operations. Moreover, still pictures of high resolution can be played if they are included in the disc.

Video CDs not equipped with PBC (Version 1.1)
Operated in the same way as audio CDs, these discs allow playback of video pictures as well as sound, but they are not equipped with PBC.

Remote control battery installation
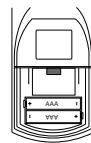
Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with ⊕ and ⊖ aligned correctly.

⚠ Caution
Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons.
- **Distance:** About 23 ft (7 m) from the front of the remote sensor
- **Angle:** About 30° in each direction of the front of the remote sensor

5

Precautions

Handling the unit

When shipping the unit
The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packed at the factory.

When setting the unit
The picture and sound of a nearby TV or radio may be distorted during playback. In this case, position the unit away from the TV or radio, or turn off the unit after removing the disc.

To keep the surface clean
Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber of plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

Cleaning the unit

To clean the cabinet
Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents, such as alcohol, benzine, or thinner, as these might damage the surface of the unit.

To obtain a clear picture
The DVD+VCR is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality will be poor.
Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.)
For details, please contact your nearest dealer.

Moisture Condensation

Never operate the DVD+VCR immediately after moving it from a cold location to a warm location. Leave it for two or three hours without operating it. If you use the DVD+VCR in such a situation, it may damage discs/tapes and internal parts.

Notes on Discs

Handling discs

Do not touch the playback side of the disc.
Hold the disc by the edges so that fingerprints will not get on the surface.
Do not stick paper or tape on the disc.

Storing discs

After playing, store the disc in its case.
Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

Cleaning discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.

YES   NO
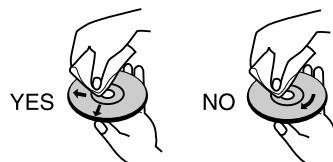
Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

About Symbols

About the ⃠ symbol display

" ⃠ " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not permitted by the DVD+VCR or is not available on that specific DVD video disc.

About the disc symbols for instructions

A section whose title has one of the following symbol is applicable only to the disc represented by the symbol.

DVD   DVDs
VCD2.0   Video CDs with the PBC (playback control) function.
VCD1.1   Video CDs without the PBC (playback control) function.
CD   Audio CDs.
MP3   MP3 disc.
WMA   WMA disc.
JPEG   JPEG disc.

Selecting the Viewing Source

You must select one of your output sources (DVD or VCR) to view on the TV screen.

• **If you want to view DVD deck output source:**
Press DVD/VCR SELECT until DVD indicator in the display window lights and output source of DVD deck is viewed on the TV screen.

• **If you want to view VCR deck output source:**
Press DVD/VCR SELECT until VCR indicator in the display window lights and output source of VCR deck is viewed on the TV screen.

🅝 **Notes**
• If you insert a disc while the DVD+VCR is in the VCR mode, the DVD+VCR will switch to DVD mode automatically.
• If you insert a cassette tape without prevention tab while the DVD+VCR is in the DVD mode, the DVD+VCR will switch to VCR mode automatically.

Front Panel
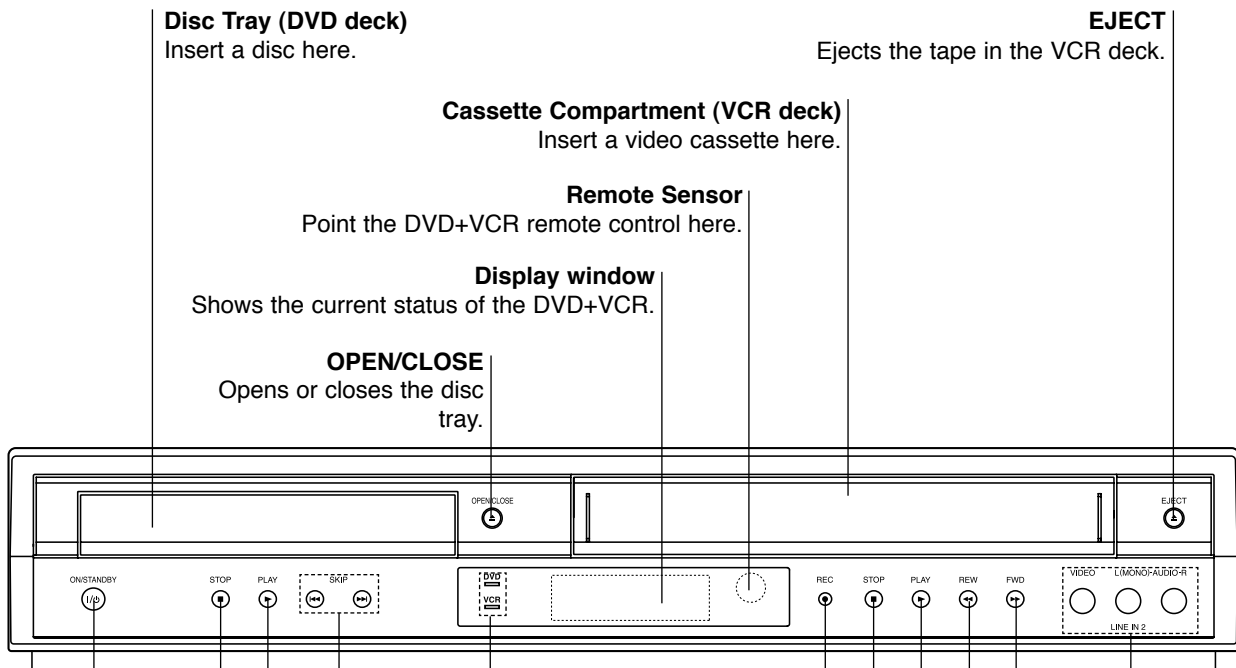
Disc Tray (DVD deck)
Insert a disc here.

Cassette Compartment (VCR deck)
Insert a video cassette here.

Remote Sensor
Point the DVD+VCR remote control here.

Display window
Shows the current status of the DVD+VCR.

OPEN/CLOSE
Opens or closes the disc tray.

EJECT
Ejects the tape in the VCR deck.

DVD/VCR indicator
Indicates the active deck.

SKIP (I◀◀ / ▶▶I)
- Skip to beginning of current chapter or track, press twice in quick successions to go to previous chapter or track.
- Skip to next chapter or track.

Press and hold button for about two seconds to search backward or forward.

REC
To record normally or to activate One-touch Timer Recording by repeated presses.

PLAY (▶)
Starts playback of a disc in the DVD deck.

STOP (■)
Stops playback of tape.

STOP (■)
Stops playback of disc.

PLAY (▶)
Starts playback of a tape in the VCR deck.

REW
Rewinds the tape during the STOP mode or for fast reverse picture search.

FWD
Advances the tape during the STOP mode or for fast forward picture search.

ON/STANDBY
Switches the DVD+VCR ON and OFF.

LINE 2 (VIDEO IN/AUDIO IN (Left/Right))
Connect the audio/video output of an external source (Audio system, TV/Monitor, Another VCR).

7

Display Window

The DVD deck is selected.

A disc is in the DVD deck.
(Lights when a disc is in the DVD deck
and Flashes when no disc.)

Indicates when the Progressive scan is active.

Indicates repeat mode.

DVD+VCR is in timer recording or a timer
recording is programmed.(VCR part only)

A cassette is in the VCR deck.

The VCR deck is selected.

DVD ◎ [P] ⬳ ⊘ ∞ **VCR**

REC

PM

TV

Lights when TV mode is active (See page 22.)

Indicates PM time. (AM is not displayed.)

DVD+VCR is Recording.
(VCR part only)

Indicates total playing time, elapsed time, remaining time or
current deck status (Playback, Pause, etc).

8

Rear Panel

VCR IN LINE 1 (VIDEO IN/AUDIO IN (Left/Right))
Connect the audio/video output of an external source (Audio system,
TV/Monitor, Another VCR).

DVD/VCR OUT (VIDEO/AUDIO (Left/Right))
Connect to a TV with video and audio inputs.

COMPONENT/PROGRESSIVE SCAN VIDEO OUT (Y Pb Pr) (DVD OUT)
Connect to a TV with Y Pb Pr inputs.

AUDIO OUT (Left/Right) (DVD OUT)
Connect to a TV, amplifier, receiver, or stereo system.
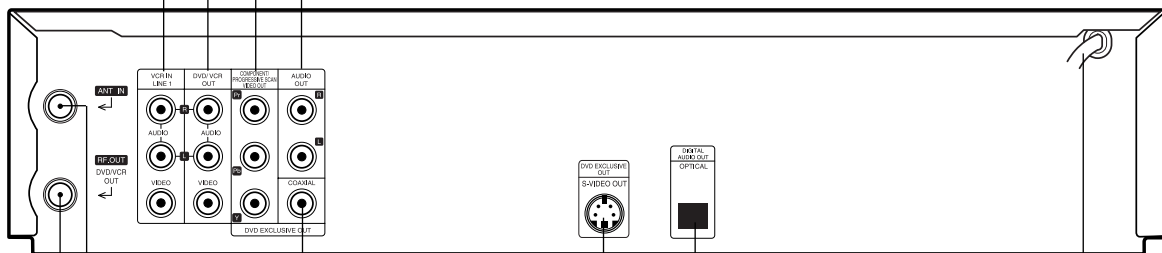
AC Power Cord
Plug into the power source.

DIGITAL AUDIO OUT (OPTICAL) (DVD OUT)
Connect to digital (optical) audio equipment.

S-VIDEO OUT (DVD OUT)
Connect to a S-Video Input on TV.

DIGITAL AUDIO OUT (COAXIAL) (DVD OUT)
Connect to digital (coaxial) audio equipment.

ANT.IN (ANTENNA INPUT)
Connect the VHF/UHF/CATV antenna to this terminal.

RF. OUT(DVD/VCR OUT)
Connect to a TV with RF coaxial inputs.

⚠️
**Do not touch the inner pins of the jacks on the rear
panel. Electrostatic discharge may cause permanent
damage to the unit.**

9

Remote Control

POWER
Switches DVD+VCR ON and OFF.

INPUT SELECT
To select the VCR deck's source (Tuner, LINE 1, or LINE 2).

CLK/CNT, DISPLAY
Accesses On-Screen display.
Switches among the clock, tape counter and tape remaining modes on the display.

DVD/VCR ●
To control DVD+VCR operating.

TV ●
To control multi-brand TV.

CABLE BOX ●
To control CABLE BOX.

0-9 numerical buttons
Selects numbered options in a menu.

TOP MENU ●
Displays the disc's Title menu, if available.

MENU ●
Accesses menu on a DVD disc.

ATR/SUBTITLE ●
- Adjusts automatically the tape's picture onscreen.
- Selects a subtitle language.

AUDIO ●
Selects an audio language (DVD) or an audio channel (CD).

ANGLE ●
Selects a DVD camera angle if available.

SKIP I◄◄ ●
Skip to beginning of current chapter or track, press twice in quick successions to go to previous chapter or track.

SKIP ►►I ●
Skip to next chapter or track.

SETUP, VCR MENU
Accesses or removes DVD setup menu and VCR menu.

TV/VCR
To view channels selected by the VCR tuner or by the TV tuner.

◄/►/▲/▼ (left/right/up/down) ●
- Selects an option in the menu
- **CH/TRK** (+/-): Selects channel of VCR. Adjusts manually the tape's picture onscreen.
- **VOL +/–:** Adjusts TV's volume.

ENTER ●
- Acknowledges menu selection.
- Displays functions on the TV screen.

EJECT, OPEN/CLOSE
- Ejects the tape in the VCR deck.
- Opens and closes the disc tray.

PROGRAM
Accesses or removes Program menu.

COUNT RESET, CLEAR
- Resets tape counter to M 0:00:00
- Removes a track number on the program menu or a mark on the MARKER SEARCH menu.

BLANK SEARCH, ZOOM
- Finds end points of recording.
- Zoom function.

● RETURN
- Removes the setup menu.
- Displays the menu of a video CD with PBC.

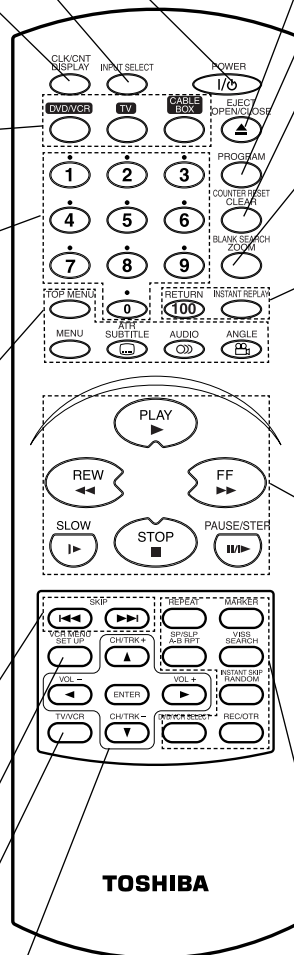**● INSTANT REPLAY**
Replays through 10 seconds of playback.

● PLAY
Starts playback.

● REW
Rewinds the tape during the STOP mode or for fast reverse picture search.

● FF
Advances the tape during the STOP mode or for fast forward picture search.

● SLOW
Forward slow playback of tape.

● STOP
Stops playback.

● PAUSE/STEP
- Pause playback or recording.
- Press repeatedly for frame-by-frame playback.

● REPEAT
Repeat chapter, track, title, all.

● A-B REPEAT, SP/SLP
- Repeats sequence.
- Selects recording speed

● MARKER
Marks any point during playback.

● VISS, SEARCH
- Enters the VISS function mode.
- Displays MARKER SEARCH menu.

● RANDOM, INSTANT SKIP
- Plays tracks in random order.
- Fast forwards picture search through 30 seconds of recording.

● REC/OTR
Records normally or activates One touch Timer Recording with repeated presses.

● DVD/VCR SELECT button
Select the output source (DVD or VCR) to view on the TV screen.
The DVD/VCR indicator on the Front Panel will light up accordingly to the mode at each press.

TOSHIBA

Ⓝ **Note**
This remote control uses the same buttons for VCR and DVD functions (ex. PLAY).

(10)

Connections

Tips

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the DVD+VCR. Use connections described on pages 11-13.
- Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections.
- For better sound reproduction, connect the DVD+VCR's DVD/VCR AUDIO OUT jack to the audio in jacks of your amplifier, receiver, stereo or audio/video equipment. See *Optional, Preferred TV Connections* on page 12-13.

Caution

- Make sure the DVD+VCR is connected directly to the TV. Tune the TV to the correct video input channel.
- Do not connect the DVD+VCR's DVD/VCR AUDIO OUT jack to the phono in jack (record deck) of your audio system.
- Do not connect your DVD+VCR via your VCR. The DVD image could be distorted by the copy protection system.

Connecting Antenna/Cable TV to DVD+VCR

1 Disconnect the antenna leads from the rear of the TV.

2 Identify the type of cable from your antenna. If it is a round cable as illustrated, it is a 75 ohm coaxial antenna cable. This cable will connect directly to the jack marked ANT.IN on your DVD+VCR.

Tip

If your antenna lead wire is a flat type antenna cable, connect it to a Antenna Adaptor (300-ohm to 75-ohm) (not supplied) and slip the Adaptor onto the ANT.IN jack. The Adaptor does not screw on to the DVD+VCR, it just slips over the jack.

Antenna

Antenna

Cable TV Wall Jack

Flat Wire (300 ohm)

300/75 ohm Adaptor (Not supplied)

OR

OR

Rear of DVD+VCR
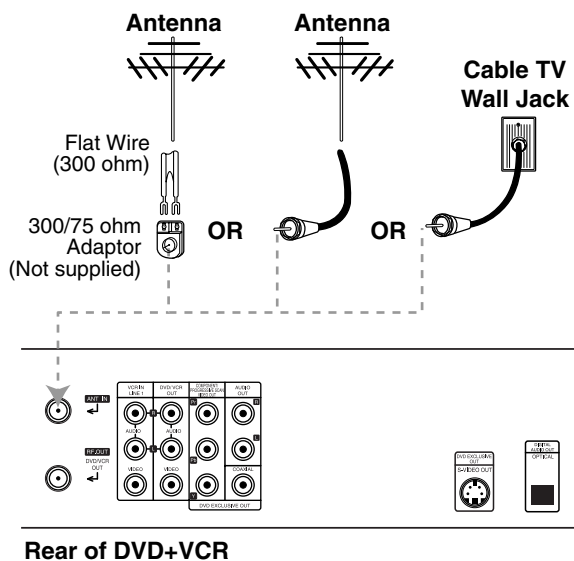
Without Cable Box

If your cable wire is connected to your TV without a converter or descrambler box, unscrew the wire from your TV and attach it to the ANT.IN jack on the DVD+VCR. Use the supplied round coaxial cable to connect between the DVD+VCR's RF.OUT jack and the 75 ohm antenna input jack on the TV. With this connection, you can receive all midband, super band, and hyperband channels.

With Cable Box

If a converter is required in your cable system, follow the instruction below:

The cable hookup permits both TV and DVD+VCR operation.

To view or record CATV channel

1 Tune the TV to the DVD+VCR output channel (CH 3 or 4).
2 Set the DVD+VCR channel selector to the output channel of the Cable Converter box by pressing the CH/TRK (+/-) or number (0-9) of your DVD+VCR. (Example: CH3)
3 Select the channel to view at the Cable Converter Box.

Notes

- With this connection, you CANNOT record one program while viewing another.
- If you are using a cable box to tune channels, it is not necessary to do Auto Channel Programming (Auto Channel Set) as indicated on page 15.

Cable TV Wall Jack

Back Panel of Typical Cable Box

CH3   CH4

CABLE   OUT   IN

Rear of DVD+VCR

11
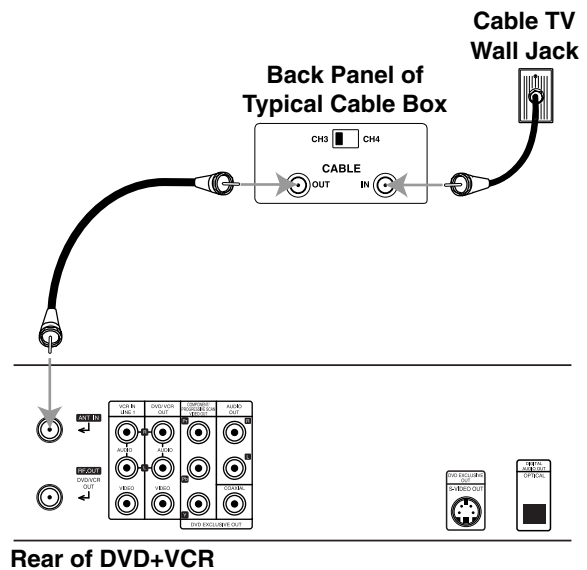
Basic TV Connections

- Make one of the following connections, depending on the capabilities of your existing equipment.

RF coaxial connection

Connect the RF.OUT jack on the DVD+VCR to the antenna in jack on the TV using the 75-ohm Coaxial Cable supplied **(R)**.

Note

If you use this connection, tune the TV to the DVD+VCR's RF output channel (CH 3 or 4).

How to set the DVD+VCR's RF output channel

1. When the DVD+VCR is turned off, press and hold REW ◄◄ or FWD ►► on the front panel for about five seconds.
   It will turn itself on and "RF03" or "RF04" appears in the display window.
2. Press REW ◄◄ or FWD ►► on the front panel or CH/TRK (+/-) on the remote control to change the RF output channel (CH 03 or CH 04).
3. Turn off and on the DVD+VCR.
4. Press the TV CH to 3 or 4 depending on the RF output channel you had selected.
   Now you can watch the DVD+VCR playback on CH3 or CH4 of your TV.

Audio/Video connection

1 Connect the DVD/VCR VIDEO OUT jack on the DVD+VCR to the video in jack on the TV using the video cable supplied **(V)**.

2 Connect the Left and Right DVD/VCR AUDIO OUT jacks on the DVD+VCR to the audio left/right in jacks on the TV **(A1)** using the supplied audio cables.

Note

If you use this connection, set the TV's source selector to VIDEO.

Optional, Preferred TV Connections

Note

You can ONLY watch and listen to DVD playback through the connections shown below.

S-Video connection

1 Connect the S-VIDEO OUT jack on the DVD+VCR to the S-Video in jack on the TV using the optional S-Video cable **(S)**.
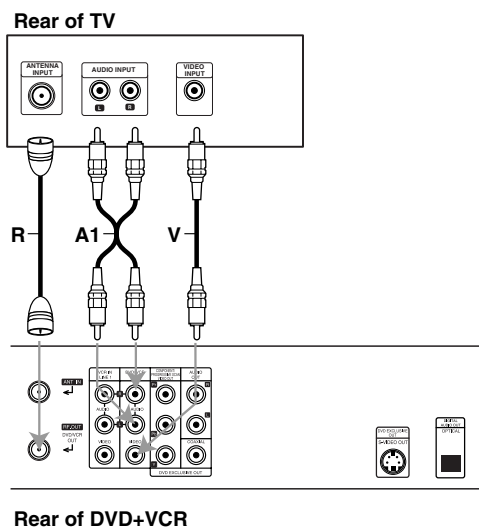
2 Connect the Left and Right AUDIO OUT jacks of the DVD+VCR to the audio left/right in jacks on the TV using the supplied audio cables **(A2)**.

Component Video (Color Stream®) / Progressive Scan (ColorStream® pro) connection

- If your television is a high-definition or "digital ready" television, you may take advantage of the DVD+VCR's progressive scan output for the highest video resolution possible.
- If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try Progressive Scan on the DVD+VCR.

1 Connect the COMPONENT / PROGRESSIVE SCAN VIDEO OUT jacks on the DVD+VCR to the corresponding in jacks on the TV using an optional Y Pb Pr cable **(C)**.

2 Connect the Left and Right AUDIO OUT jacks of the DVD+VCR to the audio left/right in jacks on the TV **(A2)** using the supplied audio cables.

Notes

- Set the Progressive Scan to "On" on the setup menu for progressive scan signal, see page 18.
- When you use Component Video signal, set the Progressive Scan to "Off" on the setup menu.
- Progressive scan does not work with the analog video connections (yellow VIDEO OUT jack and S-VIDEO OUT jack).

Rear of TV

Rear of DVD+VCR

Rear of TV

Rear of DVD+VCR

12
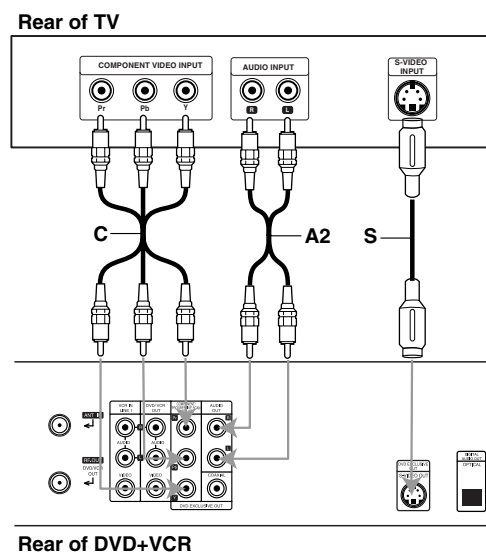
Connections (Continued)

Optional, Preferred TV Connections

𝒩 Note

You can ONLY listen to DVD playback using COAXIAL **(X)**, OPTICAL **(O)** and AUDIO OUT **(A2)** connections. The tuner and VCR will still be heard through the RF.OUT **(R)** or DVD/VCR AUDIO OUT **(A1)** jack. (See page 12.)

Connecting to an amplifier equipped with two channel analog stereo or Dolby Surround

Connect the Left and Right AUDIO OUT (or DVD/VCR AUDIO OUT) jacks on the DVD+VCR to the audio left and right in jacks on your amplifier, receiver, or stereo system using the audio cables **(A1, A2)** supplied.

Connecting to an amplifier equipped with two channel digital stereo (PCM) or to an Audio/Video receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2, or DTS)

1 Connect one of the DVD+VCR's DIGITAL AUDIO OUT jacks (OPTICAL **O** or COAXIAL **X**) to the corresponding in jack on your amplifier. Use an optional digital (optical **O** or coaxial **X**) audio cable.

2 You will need to activate the DVD+VCR's digital output. (See *Digital Audio Output* on page 19).

𝒯 Digital Multi-channel sound

A digital multi-channel connection provides the best sound quality. For this you need a multi-channel Audio/Video receiver that supports one or more of the audio formats supported by your DVD+VCR (MPEG 2, Dolby Digital and DTS). Check the receiver manual and the logos on the front of the receiver.

⚠ Caution:

Due to the DTS Licensing agreement, the digital output will be in DTS digital out when DTS audio stream is selected.

𝒩 Notes

– If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.
– Six Channel Digital Surround Sound via digital connection can only be obtained if your receiver is equipped with a Digital Multi-channel decoder.
– To see the audio format of the current DVD in the on-screen display, press AUDIO.

Rear of DVD+VCR

A1   A2   X   O

Amplifier (Receiver)
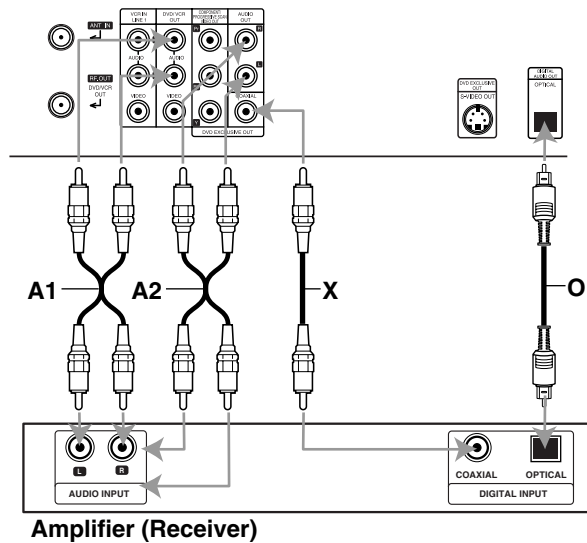
Accessory Audio/Video (A/V) Connections to DVD+VCR

Connect the **VCR IN LINE 1** or **LINE IN 2** jacks on the DVD+VCR to the audio/video out jacks on your accessory component, using the optional audio/video cables.
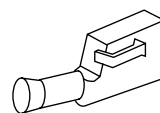
Accessory Component:
VCR, Camcorder,
Video Camera,
Satellite Receiver,
Laser Disc Player

Jack panel of Accessory

OR

Rear of DVD+VCR   **Front of DVD+VCR**

13
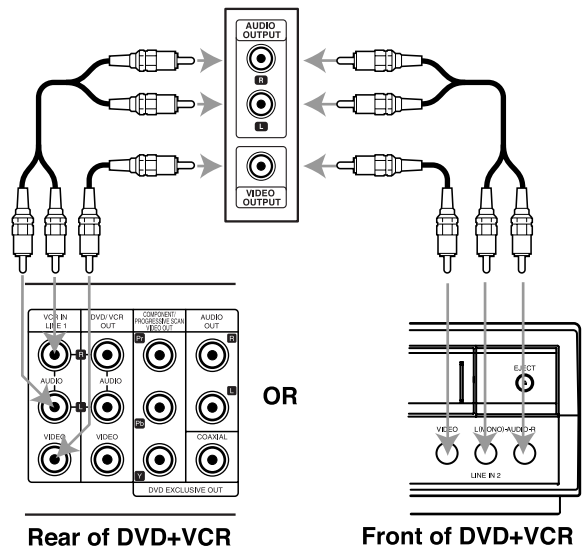
On-Screen Display (OSD)

Some of these functions will be displayed every time the VCR is operated.

❶ ❷ ❸ ❹ ❺

PLAY   HI-FI   CH 4
SP   STEREO

OCT 8 , FRI   2:15 PM

❻ ❼

❶ **TAPE SPEED DISPLAY**
   Shows the current tape speed.
❷ **FUNCTION DISPLAY**
   Indicates the current function.
❸ **HI-FI DISPLAY**
   Indicates when this unit is playing back tape recorded with Hi-Fi.
❹ **CHANNEL DISPLAY**
   Indicates the selected channel (or LINE1, LINE2).
❺ **STEREO/SAP DISPLAY** (MONO is not displayed)
   Shows the type of audio signal received by the VCR tuner.
❻ **DATE DISPLAY**
   Shows the current date. (Month/Date/Day of the week format)
❼ **CLOCK/COUNT/REMAIN DISPLAY**
   Shows the current time, the tape counter and remaining time on the tape.

Each press of the **ENTER** changes the TV screen in the following sequence.

STOP   CH 4
SP   STEREO

OCT 8 , FRI   2:15 PM

2:15 PM

0:35:40

REM 1:58

🅝 Notes

- The function displays can be seen displayed on the TV screen for 5 seconds.
- The clock (or tape counter, tape remaining) mode will continue until you press **ENTER**.
- The tape counter and the remaining tape length indicator appear only when a cassette is inserted. Also, the remaining tape length indicator appears after any tape operation.

Easy Information
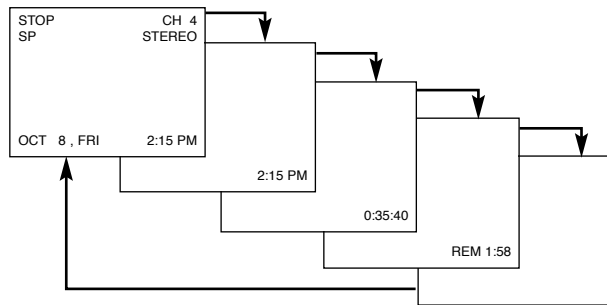
If the Extended Data Service (XDS) signals are provided along with normal TV signal in your area or during playback of a tape recorded with Extended Data Service (XDS) signals, the station ID, program title and program details are shown on the TV screen.
When viewing a channel with Extended Data Service (XDS) signals, press **ENTER** then the station ID will appear on the TV screen. Press **ENTER** again and the program details will appear on the TV screen.
When viewing a tape recorded with Extended Data Service (XDS) signals, press **ENTER** twice then the program title and program details will appear on the TV screen.

Program Details

LENGTH: Indicates the run length of a program.
TIME REMAINING: Indicates the remaining time of a program.
RATING: Indicates the rating of the current program (N/A, G, PG, PG-13, R, NC-17, X and Not Rated). The rating N/A means that the motion picture ratings are not applicable to this program.

		CH 4
SP	WABC	STEREO
"Home video"		
OCT 8 , FRI		2:15 PM
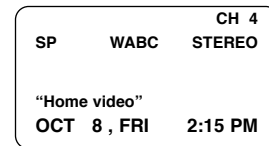
**Easy Information Screen
(Station ID)**

PROGRAM DETAILS
"Home video"

LENGTH 01:00
TIME REMAINING 00:26
RATING N/A
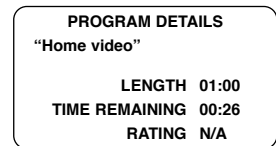
**Easy Information Screen
(Program details)**

Setting the On-Screen Display

The SETUP, clock setting, and timer recordings are accessed conveniently with On-Screen Menu Displays that lead you through each step. The following pages describe the On-screen selections to be set.

Menu Selection

Your VCR allows remote control adjustment of several features.

1 **Press VCR MENU and the MAIN menu will appear.**

2 **Select the desired menu with ▲/▼ button and then press ENTER.**

MAIN MENU

🕐	CLOCK	➔ **CLOCK SET** (page 16)
📹	PROGRAM	➔ **PROGRAM** (page 23)
📺	TUNING	➔ **TUNING** (page 15)
🔢	SETUP	➔ **SETUP** (page 15)

▲▼ SELECT ENTER ENTER
TO EXIT PRESS MENU
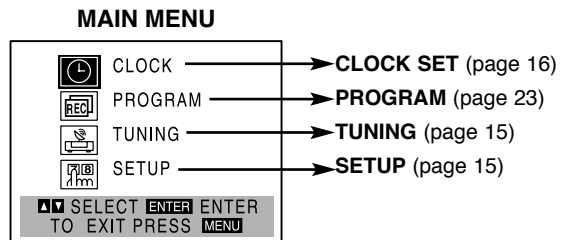
🅝 Note

Menus remain on-screen for 3 minutes.

3 **Press VCR MENU when finished.**

14

Setting the VCR Setup Menu

1 **Press VCR MENU and the MAIN menu will appear.**

2 **Press ▲/▼ to select the SETUP menu, then press ENTER.**
The SETUP menu will appear.

```
┌─────────────────────┐      ┌─────────────────────┐
│ 🕐  CLOCK           │      │ 📺                  │
│                     │      │ FUNCTION OSD :    ON│
│ 📹  PROGRAM         │      │ AUDIO MODE:     HI-FI│
│                     │  ──► │ BROADCAST TYPE: STEREO│
│ 📼  TUNING          │      │ AUDIO OUTPUT:   STEREO│
│                     │      │                     │
│ 📺  SETUP ──        │      │                     │
│                     │      │                     │
│ ▲▼ SELECT ENTER ENTER│     │ ▲▼ SELECT  ◄► ADJUST │
│ TO EXIT PRESS MENU  │      │ TO EXIT PRESS MENU  │
└─────────────────────┘      └─────────────────────┘
```
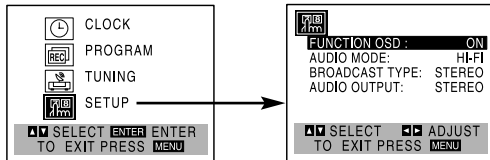
3 **Press ▲/▼ to choose a desired option on the SETUP menu. Then press ◄/► to choose a desired setting.**

FUNCTION OSD
The on-screen display of this DVD+VCR can be turned on or off.
● FUNCTION OSD can be switched between ON and OFF by pressing ◄/►.

AUDIO MODE
The DVD+VCR has two separate audio playback systems, the high quality VHS Hi-Fi system and standard NORMAL mono system. The same audio is generally recorded on both systems. The VHS Hi-Fi system plays on separate (left and right) channels, and the NORMAL system plays monaural sound. The normal track is always played so the cassette can be played on a DVD+VCR that does not have VHS Hi-Fi.
● AUDIO MODE can be switched between HI-FI and NORMAL by pressing ◄/►.

BROADCAST TYPE (STEREO/SAP/MONO)
Multichannel Television Sound (MTS) carries stereo and/or Second Audio Program (SAP) bilingual signals. Set this display to the desired position when both MTS stereo and SAP signals are received. When only one of the MTS signal is received, the DVD+VCR automatically selects the corresponding receiving mode (Stereo or SAP) regardless of the selected position. For normal operation, the display should be in the STEREO position. The DVD+VCR will then record a STEREO program when available, and record a mono program IF the program is NOT IN STEREO.
For weak STEREO and/or SAP broadcasts, changing the display to mono may give clearer sound.
● BROADCAST TYPE can be switched among STEREO, SAP, and MONO by pressing ◄/►.

AUDIO OUTPUT (STEREO/LEFT/RIGHT)
Used during playback [when AUDIO MODE (HI-FI/NORMAL) is in HI-FI position] for selecting the audio output signals from the AUDIO OUT terminals (L ch and R ch), and RF.OUT.
This display setting should normally be left in the stereo position, so that when a stereo tape is played, the stereo sound will be heard through the left and right channels. If a mono tape is played and the audio output is set to stereo, the same mono sound will be heard from both left and right channels.
● AUDIO OUTPUT can be switched among STEREO, LEFT, and RIGHT by pressing ◄/►.

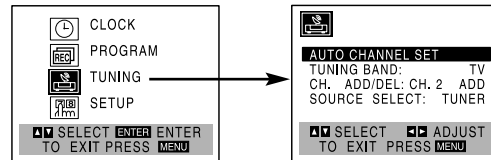**4** **Press VCR MENU when finished.**

Channel Selection

This DVD+VCR is equipped with a frequency synthesized tuner capable of receiving up to 181 channels. These include VHF channels 2-13, UHF channels 14-69 and CATV channels 1-125.

Preparation:
● Connect the DVD+VCR to the desired type of antenna or cable TV system, as shown in Connecting Antenna/Cable TV to DVD+VCR on page 11.

AUTO CHANNEL PROGRAMMING

1 **Press VCR MENU and the MAIN menu will appear.**

2 **Press ▲/▼ to select the TUNING menu, then press ENTER.**
The TUNING menu will appear.

```
┌─────────────────────┐      ┌─────────────────────┐
│ 🕐  CLOCK           │      │ 📼                  │
│                     │      │ AUTO CHANNEL SET    │
│ 📹  PROGRAM         │      │ TUNING BAND:      TV│
│                     │  ──► │ CH. ADD/DEL: CH. 2 ADD│
│ 📼  TUNING ──       │      │ SOURCE SELECT: TUNER│
│                     │      │                     │
│ 📺  SETUP           │      │                     │
│                     │      │                     │
│ ▲▼ SELECT ENTER ENTER│     │ ▲▼ SELECT  ◄► ADJUST │
│ TO EXIT PRESS MENU  │      │ TO EXIT PRESS MENU  │
└─────────────────────┘      └─────────────────────┘
```

3 **Press ▼ to choose the SOURCE SELECT option, then press ◄/► to select TUNER.**
Press ◄/► repeatedly to switch among TUNER, LINE1 and LINE2.

4 **Press ▲/▼ to choose the AUTO CHANNEL SET option, then press ◄/► to set the channel.**
• The tuner will automatically cycle through all available channels (TV/CATV) in the area and place them in the tuner's memory.
• After the AUTO CHANNEL SET is complete, the TUNING menu will hide and return to the TV screen automatically.

5 **Make sure the TUNING BAND is set appropriately (TV or CATV).**
• TV : If you are using a standard antenna to receive channels.
CATV : If you are using basic cable to receive channels.
• Change the setting of TUNING BAND to check the TV channels.

6 **Use CH/TRK (+/-) to cycle the DVD+VCR through the channels in memory.**

TO ADD OR ERASE CHANNELS FROM MEMORY
This feature allows you to add or erase channels from memory manually. In order to add or erase the channels, the SOURCE SELECT must be set to TUNER.

1 Press ▼ to choose the CH. ADD/DEL option on the TUNING menu. Press ◄/► to select a channel to add or erase.

2 Press **ENTER** to add or erase the channel.
Repeat steps 1 and 2 to add or erase more channels.

3 Press **VCR MENU** to return to the TV screen.

15

Setting the Clock

The DVD+VCR gives you two ways to set the time and date: the Auto Clock Feature or manually. The Auto Clock Feature enables the DVD+VCR to set up the clock when the DVD+VCR is turned off.
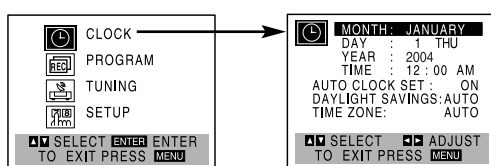
Things to know before starting

- The clock uses the 12-hour system. (Be sure to set AM and PM correctly.)
- The initial Clock Setting is **JANUARY 1, 2004, 12:00 AM**.

Auto Clock Set

The Auto Clock Set feature is set to ON at the factory. In the ON setting, the DVD+VCR looks for a channel carrying XDS (Extended Data Services) information. XDS updates the clock using the Coordinated Universal Time.
The Auto Clock Feature enables the DVD+VCR to set up the clock when the DVD+VCR is turned off.

1 Press VCR MENU and the MAIN menu will appear.

2 Press ▲/▼ to choose the CLOCK menu.
Press ENTER and the CLOCK menu will appear.

```
 ┌─────────────────────┐      ┌─────────────────────────┐
 │ 🕐 CLOCK            │      │ 🕐 MONTH :  JANUARY     │
 │ 📼 PROGRAM          │  ──▶ │    DAY   :   1   THU     │
 │ 🔊 TUNING           │      │    YEAR  :  2004         │
 │ 📺 SETUP            │      │    TIME  : 12 : 00  AM   │
 │                     │      │  AUTO CLOCK SET :   ON   │
 │                     │      │  DAYLIGHT SAVINGS:AUTO   │
 │                     │      │  TIME ZONE:       AUTO   │
 │ ▲▼ SELECT ENTER ENTER│     │  ▲▼ SELECT  ◄► ADJUST   │
 │ TO EXIT PRESS MENU  │      │  TO EXIT PRESS MENU     │
 └─────────────────────┘      └─────────────────────────┘
```

3 Press ▼ to choose the AUTO CLOCK SET option.
Press ◄/► to choose ON.
The Auto Clock Set feature is set to ON at the factory. In the ON setting, the DVD+VCR looks for a channel carrying XDS (Extended Data Services) information. XDS updates the clock using the Coordinated Universal Time.

4 Press ▼ to choose the DAYLIGHT SAVINGS item.
Press ◄/► to choose AUTO, ON or OFF.
If you choose AUTO, the VCR sets the clock using the DST information broadcast in the signal (channel).
If you choose ON, the VCR sets the clock when the Daylight Saving Time is started and ended.

5 Press ▼ to choose the TIME ZONE item.
Press ◄/► to choose the correct time zone (AUTO, EASTERN, CENTRAL, MOUNTAIN, PACIFIC, ALASKA or HAWAII).
If "AUTO" is selected as the time zone, the VCR sets the clock using the first Coordinated Universal Time information it finds in a broadcast signal.

6 Press VCR MENU when finished.

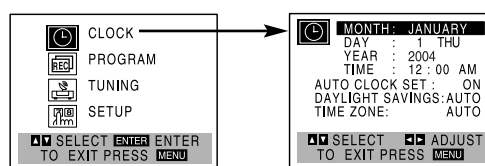**7** Turn off the DVD+VCR and the auto clock setting works.

🅝 Note

There are cases where the TV station does not send or sends wrong date and/or time information and the DVD+VCR sets the incorrect time.
If this happens we recommend that you set the clock manually.

Manual Clock Set

Example: July 5, 2004 ; 2:15 AM

1 Press VCR MENU and the MAIN menu will appear.

2 Press ▲/▼ to choose the CLOCK menu.
Press ENTER and the CLOCK menu will appear.

```
 ┌─────────────────────┐      ┌─────────────────────────┐
 │ 🕐 CLOCK            │      │ 🕐 MONTH :  JANUARY     │
 │ 📼 PROGRAM          │  ──▶ │    DAY   :   1   THU     │
 │ 🔊 TUNING           │      │    YEAR  :  2004         │
 │ 📺 SETUP            │      │    TIME  : 12 : 00  AM   │
 │                     │      │  AUTO CLOCK SET :   ON   │
 │                     │      │  DAYLIGHT SAVINGS:AUTO   │
 │                     │      │  TIME ZONE:       AUTO   │
 │ ▲▼ SELECT ENTER ENTER│     │  ▲▼ SELECT  ◄► ADJUST   │
 │ TO EXIT PRESS MENU  │      │  TO EXIT PRESS MENU     │
 └─────────────────────┘      └─────────────────────────┘
```

3 Press ◄/► to choose the month.

4 Press ▼ to choose the DAY option.
Use ◄/► to choose the day.
The day of the week will display automatically.

5 Press ▼ to choose the YEAR option.
Use ◄/► to choose the year.

6 Press ▼ to choose the TIME option.
Use ◄/► to choose the time.
Press and hold ◄/► to advance clock continuously.

7 Press ▼ to choose the DAYLIGHT SAVINGS item.
Use ◄/► to choose AUTO, ON or OFF.
If you choose AUTO, the VCR sets the clock using the DST information broadcast in the signal (channel).
If you choose ON, the VCR sets the clock when the Daylight Saving Time is started and ended.

```
 ┌─────────────────────────┐
 │ 🕐 MONTH :  JULY        │
 │    DAY   :   5   MON     │
 │    YEAR  :  2004         │
 │    TIME  :  2 : 15  AM   │
 │  AUTO CLOCK SET :   OFF  │
 │  DAYLIGHT SAVINGS: AUTO  │
 │  TIME ZONE:        AUTO  │
 │  ▲▼ SELECT  ◄► ADJUST   │
 │  TO EXIT PRESS MENU     │
 └─────────────────────────┘
```

8 Press VCR MENU when finished.

🅝 Note

If setting the clock manually, "AUTO CLOCK SET" must set to "OFF".
If set to "ON", an incorrect date and/or time will be entered again when the DVD+VCR is turned off.

16

⚠ **Caution:**

Before using the remote control, press the DVD/VCR button to select the device to be operated. Then press DVD/VCR SELECT button to select DVD mode.

General Explanation

This manual gives the basic instructions for operating this unit. Some DVDs require specific operation or allow only limited operation during playback. When this occurs, the symbol ⊘ appears on the TV screen, indicating that the operation is not permitted by this unit or is not available on the disc.

On-Screen Display

The general playback status can be displayed on the TV screen. Some options can be changed on the menu.

On-screen display operation

1 **Press DISPLAY during playback.**

2 **Use ▲/▼ to select an item.**
The selected option will be highlighted.

3 **Use ◄/► to change the setting of an item.**
The number buttons can also be used for setting numbers (e.g., title number). For some functions, press **ENTER** to execute the setting.

Temporary Feedback Field Icons

Icon	Description
TITLE	Repeat Title
CHAPT	Repeat Chapter
TRACK	Repeat Track (non-PBC Video CDs and Audio CD only)
ALL	Repeat Disc (non-PBC Video CDs and Audio CD only)
A B	Repeat A-B
OFF	Repeat Off
❚❚■	Resume play from this point
⊘	Action prohibited or not available

𝒩 Notes
- Some discs may not provide all of the features on the on-screen display example shown below.
- If no button is pressed for 10 seconds, the on-screen display disappears.

DVD

Options		Function (Use ▲/▼ to select desired option)	Selection Method
Title Number	1/3	**Shows the current title number and total number of titles, and** skips to the desired title number.	◄/►, or Numeric, ENTER
Chapter Number	1/12	**Shows the current chapter number and total number of chapters, and** skips to the desired chapter number.	◄/►, or Numeric, ENTER
Time search	0:16:57	**Shows the elapsed playing time, and** searches the point by the elapsed time directly.	Numeric, ENTER
Audio language and Digital Audio Output mode	1 ENG ⅅⅅⅅD 5.1 CH	**Shows the current audio soundtrack language, encoding method, and channel number, and** changes the setting.	◄/►, or AUDIO
Subtitle language	OFF	**Shows the current subtitles language, and** changes the setting.	◄/►, SUBTITLE
Angle	1/1	**Shows the current angle number and total number of angles, and** changes the angle number.	◄/►, ANGLE
Sound	NORM.	**Shows the current sound mode, and** changes the setting.	◄/►

VCD2.0 **VCD1.1**

Options		Function (Use ▲/▼ to select desired option)	Selection Method
Track Number	1/4	**Shows the current track number, total number of tracks and PBC On mode, and** skips to the desired track number.	◄ / ►, or Numeric , ENTER
Time	0:16:57	**Shows the elapsed playing time (Display only)**	–
Audio Channel	STER.	**Shows the audio channel, and** changes the audio channel.	◄ / ►, or AUDIO
Sound	NORM.	**Shows the current sound mode, and** any changes to the setting.	◄ / ►

17

Initial Settings

You can set your own Personal Preferences on this unit.

General Operation

1 **Press SETUP.**
The setup menu appears.

(ABC)	Disc Audio	✓Original
	Disc Subtitle	English
	Disc Menu	French
(lock)	Rating	German
	Area Code	Spanish
	TV Aspect	Italian
(TV)	Menu Language	Chinese
	Progressive Scan	Polish
((•))	Digital Audio Output	Hungarian
		Other — — — —
	Others	

2 **Use ▲/▼ to select the desired item.**
The screen will show the current setting for the selected option, as well as alternate setting(s).

3 **While the desired option is selected, press ▶, then ▲/▼ to select the desired setting.**

4 **Press ENTER to confirm your selection.**
Some items require additional steps.

5 **Press SETUP, RETURN, or PLAY ▶ to exit the setup menu.**

Language

Disc Language DVD

Select a language for the disc's Menu, Audio, and Subtitle.
Original : The original language set for the disc is selected.
Other : To select another language, press number buttons to enter the corresponding 4-digit number according to the Language Code List on page 42. If you enter the wrong language code, press CLEAR.

𝒩 Note
Disc Language selection may not work for some DVDs.

(ABC)	Disc Audio	✓Original
	Disc Subtitle	English
	Disc Menu	French
(lock)	Rating	German
	Area Code	Spanish
	TV Aspect	Italian
(TV)	Menu Language	Chinese
	Progressive Scan	Polish
((•))	Digital Audio Output	Hungarian
		Other — — — —
	Others	

Menu Language
Select a language for the setup menu. This is the menu you see when you press SETUP.

(ABC)	Disc Audio	✓English
	Disc Subtitle	Spanish
	Disc Menu	French
(lock)	Rating	
	Area Code	
	TV Aspect	
(TV)	Menu Language	
	Progressive Scan	

Picture

TV Aspect DVD

4:3 Letterbox: Select when a standard 4:3 TV is connected. Displays theatrical images with masking bars above and below the picture.
4:3 Panscan: Select when a conventional TV set is connected. The video material formatted in the Pan & Scan style is played back in that style (Both sides of the picture are cut off.)
16:9 Wide: Select when a 16:9 wide TV is connected.

(ABC)	Disc Audio	4:3 Letterbox
	Disc Subtitle	4:3 Panscan
	Disc Menu	✓ 16:9 Wide
(lock)	Rating	
	Area Code	
	TV Aspect	
(TV)	Menu Language	
	Progressive Scan	
((•))	Digital Audio Output	
	Others	
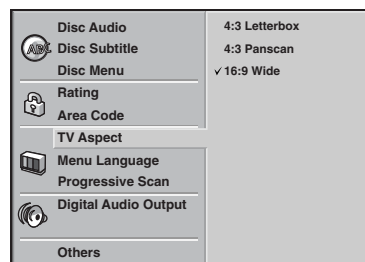
Progressive Scan DVD

Progressive Scan Video provides the highest resolution pictures with less flicker and line structure.
If you are using the COMPONENT/PROGRESSIVE SCAN VIDEO OUT jacks, but are connecting the DVD Player to a standard (analog) television, set Progressive Scan to Off.
If you are using the Component Video jacks for connection to a TV or monitor that is compatible with a progressive scan signal, set Progressive Scan to On.

(ABC)	Disc Audio	✓Off
	Disc Subtitle	On
	Disc Menu	
(lock)	Rating	
	Area Code	
	TV Aspect	
(TV)	Menu Language	
	Progressive Scan	
((•))	Digital Audio Output	
	Others	
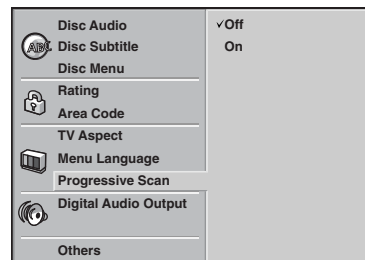
⚠ Caution
Once the setting for progressive scan output is entered, an image will only be visible on a progressive scan compatible TV or monitor. If you set Progressive Scan to On in error, you must reset the DVD+VCR. First, remove the disc in the DVD+VCR. Next, press STOP (■) and hold it for five seconds before releasing it. The video output will be restored to the standard setting, and a picture will once again be visible on a conventional analog TV or monitor.

⟨18⟩

Before Operation - DVD Part (Continued)

Sound

Digital Audio Output

Each DVD disc has a variety of audio output options.
Set the player's Digital Audio Output according to the
type of audio system you use.

DOLBY DIGITAL/PCM: Select "DOLBY DIGITAL/PCM"
if you connected the DVD+VCR's DIGITAL AUDIO OUT
jack to a Dolby Digital decoder (or an amplifier or other
equipment with a Dolby Digital decoder).

Stream/PCM: Select "Stream/PCM" if you connected
the DVD+VCR's DIGITAL AUDIO OUT jack to an ampli-
fier or other equipment with a DTS decoder, Dolby
Digital decoder or MPEG decoder.

PCM: Select when connected to a 2-channel digital
stereo amplifier. The DVD+VCR outputs sounds in the
PCM 2ch format when you play a DVD video disc
recorded on the Dolby Digital, MPEG1, or MPEG2
recording system.

	Disc Audio	DOLBY DIGITAL /PCM	
ABC	Disc Subtitle	√ Stream/PCM	
	Disc Menu	PCM	
	Rating		
	Area Code	Sample Freq.	
	TV Aspect	√ 48 KHz	
	Menu Language	96KHz	
	Progressive Scan		
	Digital Audio Output		
	Others		
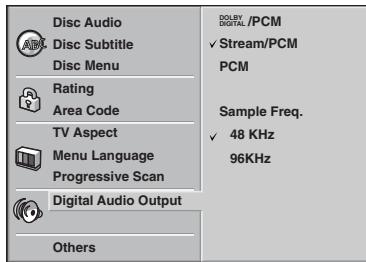
Sample Frequency

To change the Sample Frequency setting, first select
the desired Digital Audio Output as indicated as above.
If your receiver or amplifier is NOT capable of handling
96KHz signals, select 48KHz. When this choice is
made, this unit will automatically convert any 96KHz
signals to 48KHz so your system can decode them.
If your receiver or amplifier is capable of handling
96KHz signals, select 96KHz. When this choice is
made, this unit will pass each type of signal through
without any further processing.

Others

The DRC, Vocal, PBC, Auto Play, B.L.E., Pluge and
DNR settings can be changed.
● Press ▲/▼ to select the desired item and press
ENTER. The setting of the selected item is changed
between On and Off.

	Disc Audio	DRC	On
ABC	Disc Subtitle	Vocal	On
	Disc Menu	PBC	On
	Rating	Auto Play	Off
	Area Code	B.L.E.	Off
	TV Aspect	Pluge	Off
	Menu Language	DNR	Off
	Progressive Scan		
	Digital Audio Output		
	Others		
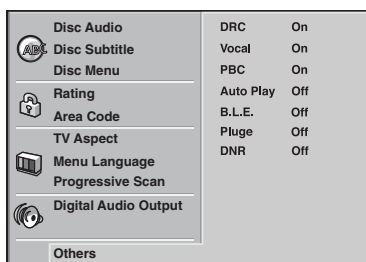
Dynamic Range Control (DRC) DVD

With the DVD format, you can hear a program's sound-
track in the most accurate and realistic presentation
possible, thanks to digital audio technology. However,
you may wish to compress the dynamic range of the
audio output (the difference between the loudest sounds
and the quietest ones). Then, you may listen to a movie
at a lower volume without losing clarity of sound. Set
DRC to On for this effect.

Vocal DVD

Set Vocal to On only when a multi-channel karaoke
DVD is playing. The karaoke channels on the disc will
mix into normal stereo sound.

PBC VCD2.0 VCD1.1

Set Playback Control (PBC) to On or Off.
On: Video CDs with PBC are played according to the PBC.
Off: Video CDs with PBC are played the same way as Audio CDs.

Auto Play DVD

You can set up the DVD Player so a DVD disc automat-
ically starts playing whenever the DVD is inserted.
If Auto Play mode is set to On, this DVD player will
search a title where playback time is longest and then
play back the title automatically.
On: Auto Play function is activated.
Off: Auto Play function is not activated.

𝒩 Note

The Auto Play function may not work for some DVDs.

B.L.E. (Black Level Expansion) DVD VCD2.0 VCD1.1

To select the black level of playback pictures. Set your
preference and monitor's ability.
On: Expanded grey scale. (0 IRE cut off)
Off: Standard grey scale. (7.5 IRE cut off)

Pluge (Blacker than Black) DVD

For proper adjustment of your television brightness
settings utilizing a commercially available test disc.
On: Select when you adjust the level of your TV using a
commercially available test disc that contains pluge signals.
Off: For normal use.

DNR (Digital Noise Reduction) DVD VCD2.0 VCD1.1

You can reduce ambient noise in the picture.
DNR1: Normal level
DNR2: Expanded level.
Off: Off.

𝒩 Notes

– Actual picture enhancement may vary depending on the
quality of the disc.
– While the DNR2 (expanded level) can provide additional
improvement in the reduction of noise in the video signal, it
may produce undesirable picture artifacts on some discs.
Should this occur, select a more appropriate DNR level (nor-
mal or off).
– Depending on the disc, some picture detail may be lost by
the picture enhancement.
– A DVD audio disc with Dolby Digital or DTS soundtrack may
be played, some DVD audio discs include moving pictures
which may be modified by the above processes.

19

Parental Control

Rating DVD

Movies on DVDs may contain scenes not suitable for children. Therefore, discs may contain Parental Control information that applies to the complete disc or to certain scenes on the disc. These scenes are rated from 1 to 8, and alternatively, more suitable scenes are available for selection on some discs. Ratings are country dependent. The Parental Control feature allows you to prevent discs from being played by your children or to have certain discs played with alternative scenes.

Disc Audio	8
Disc Subtitle	7
Disc Menu	6
Rating	5
Area Code	4
TV Aspect	3
Menu Language	2
Progressive Scan	1
Digital Audio Output	✓ Unlock
	Change
Others	

1 Select "Rating" on the Setup menu using the ▲/▼ buttons.

2 While "Rating" is selected, press ►.

3 **When you have not entered a password yet;**
Enter a 4-digit password using the numbered buttons to create a personal 4-digit security password, then press ENTER. Enter the 4-digit password again and press ENTER to verify.
When you have already entered a password;
Enter a 4-digit password using the numbered buttons to confirm the personal 4-digit security password, then press ENTER.

If you make a mistake before pressing ENTER, press CLEAR and enter 4-digit security password again.

4 Select a rating from 1 to 8 using ▲/▼ buttons.
Level 1 : DVD software for adults cannot be played back.
Level 8 : All DVD software can be played back.
The limitation will be more severe as the level number is lower.
Unlock: If you select Unlock, Parental Control is not active. The disc will play in full.
Ratings 1 to 8: Some discs contain scenes not suitable for children. If you set a rating for the DVD+VCR, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc.

5 Press ENTER to confirm your rating selection, then press SETUP to exit the menu.

Area Code DVD

Enter the code of a country/area whose standards were used to rate the DVD video disc, referring to the list (See "Country/Area Code List", page 43).

Disc Audio	Code Set
Disc Subtitle	U S
Disc Menu	
Rating	
Area Code	
TV Aspect	
Menu Language	
Progressive Scan	
Digital Audio Output	
Others	

1 Select Area Code using the ▲/▼ buttons on the setup menu.

2 While Area Code is selected, press ►.

3 Follow step 3 of "Rating" on left.

4 Select the first character using the ▲/▼ buttons.

5 Shift the cursor using ► button and select the second character using ▲/▼ buttons.

6 Press ENTER to confirm your Area code selection, then press SETUP to exit the menu.

Ⓝ Note
Confirmation of the 4-digit password is necessary when the password is changed (see "Changing the 4-digit Code" below).

Changing the 4-digit Code

1 Follow Steps 1-2 as shown above to the left (Rating).
2 Enter the old password, then press ENTER.
3 Select Change using ▲/▼ buttons then press ENTER.
4 Enter the new 4-digit password, then press ENTER.
5 Enter exactly the same password a second time and verify by pressing ENTER.
6 Press SETUP to exit the menu.

If you forget your 4-digit Code

If you forget your password, clear the current password by following the procedure below.

1 Press SETUP to display the setup menu.
2 Use the Number buttons to enter the 6-digit number "210499".
The 4-digit password is cleared.
3 Enter a new password as shown above to the left (Rating).

Normal Playback

Preparation:
● Turn on the TV.
● Tune the TV to the DVD+VCR output channel (CH 3 or 4) or set the TV's source selector to VIDEO.
● If a direct VIDEO/AUDIO connection is made between the DVD+VCR and the TV, set the TV's source selector to VIDEO.
● Set the Output Source to VCR as shown in Selecting the Viewing Source on page 6.

1 **Insert a prerecorded video cassette.**
The ⊙⊙ indicator will light and the DVD+VCR will power-up automatically.
● Make sure that the TIMER indicator in the display window is not lighted. If it is, press **POWER** once.
● If a tape without a safety tab is inserted, the unit will start playback automatically.

2 **Press PLAY once.**
PLAY appears on the TV screen .
● It is not necessary to select the tape speed for playback. It will be automatically selected by the DVD+VCR.
● In playback, the **TV/VCR** selector switches to VCR mode automatically.

3 **Press STOP to stop playback.**
STOP appears on the TV screen.
● If the tape reaches the end before STOP is pressed, the DVD+VCR will automatically stop, rewind, eject, and it will turn itself off.

Tracking Control

Auto Tracking
The automatic tracking function adjusts the picture to remove snow or streaks.
The AUTO TRACKING function works in the following cases:
● When the ATR(AUTO TRK) button is pressed.
● A tape is played back for the first time.
● Tape speed (SP, LP, SLP) changes.
● Streaks or snow appear because of scratches on the tape.

Manual Tracking
If noise appears on the screen during playback, press CH/TRK (+/-) until the noise on the screen is reduced.

● In case of vertical jitter, adjust these controls very carefully.
● Tracking is automatically reset to normal when the tape is ejected or the power cord is unplugged for more than 3 seconds.

Special Effect Playbacks

N **Special effects playback notes**
● Horizontal lines (noise bars) will appear on the TV screen. This is normal.
● The audio is automatically muted during special effect modes, so there is no sound during search.
● During the high-speed picture search modes, a short period is needed to stabilize tape speed when re-entering the PLAY mode. Slight interference may be observed during this period.

Search
This function lets you quickly and visually search for a desired tape section in either direction: forward and reverse.

1 Press REW or FF during playback.
The DVD+VCR will be activated in the SEARCH mode.
2 To return to playback, press PLAY.

Still Picture and Frame-by-Frame Playback
1 Press PAUSE/STEP during playback.
Still picture will appear on the TV screen.
● If a still picture vibrates vertically, stabilize it by pressing CH/TRK (+/-) on the remote control.
● If the DVD+VCR is left in the STILL mode for more than 5 minutes, the DVD+VCR will automatically enter the STOP mode to protect the tape and video heads.
2 Press PAUSE/STEP repeatedly to advance the video picture one frame at a time while viewing a still picture.
3 To return to playback, press PLAY.

Slow Motion
1 Press SLOW during playback or still mode.
The tape will be played back at a speed 1/19 times slower than the normal speed.
● During slow playback, use CH/TRK (+/-) to minimize noise bands.
● If slow motion mode continues for more than 3 minutes, the DVD+VCR will automatically change to playback mode.
2 To return to playback, press PLAY.

Instant Skip
This is useful for skipping commercials or short program segments.
1 Press INSTANT SKIP during the playback mode.
The tape will fast forward picture search through 30 seconds of recording.
● The skipping time can be extended by pressing INSTANT SKIP.
● Subsequent presses result in advancing the fast forward picture search time by 30-second increments (maximum 3 minutes).
2 When the search is completed, the DVD+VCR will go into playback mode automatically.

21

VISS (VHS Index Search System)

The VHS INDEX SEARCH SYSTEM enables you to locate the beginning of any recording made on this VCR. Whenever a recording begins, an invisible INDEX mark is recorded on the tape.

VISS Scan

VISS SCAN lets you search out each VISS mark on the recorded tape and play 5 seconds before advancing to the next VISS mark.

1 **Insert a cassette tape that has VISS signals marked.**

2 **Press the VISS button once during PLAYBACK or STOP mode.**
The VISS -- indicator will appear in the display window.

3 **Press either the FF or the REW button.**
The VISS SCAN will start. The indicator appears simultaneously during scanning. The tape will be rewound or rapidly advanced to the next signal marked.
The tape will be played back for approximately 5 seconds, and then rewound or rapidly advanced to the next VISS signal.
● Press VISS or STOP button to stop the VISS SCAN mode.

4 **At the desired program, press the PLAY button.**
Normal playback of that program will begin.

VISS Search

You can locate the desired program and play it back automatically by designating the number of its VISS signal. Up to the 99th VISS signal from the preset position on the tape can be located.

1 **Press the VISS button once during PLAYBACK or STOP mode.**
The VISS -- indicator will appear in the display window.

2 **Enter the number of VISS signals you wish to skip.**
Up to 99 signals may be skipped from any given position on the tape.

3 **Press either the FF or REW button once.**
The SCH 02 (for example) message appears in the display window. When the desired VISS signal is found, playback begins automatically.
● If the end of the tape is reached during forward VISS search, the VCR will automatically stop, rewind, eject, and turn itself off.

Normal Recording

Preparation:
● Turn on the power of both the DVD+VCR and TV.
● Tune the TV to the DVD+VCR output channel (CH 3 or 4) or set the TV's source selector to VIDEO.
● If a direct VIDEO/AUDIO connection is made between the DVD+VCR and the TV, set the TV's source selector to VIDEO.

1 **Insert a video cassette that the safety tab intact.**

2 **Select the desired channel by using CH/TRK (+/-).**
● If you are recording from another source via audio/video input jacks (at the Rear or Front panel), select the LINE1 or LINE2 by pressing **INPUT SELECT**.

3 **Set the desired recording speed (SP or SLP) by pressing SP/SLP.**
● This DVD+VCR is not designed to record in LP mode.

4 **Set the MTS mode as desired (See page 15, 26).**

5 **Press REC/OTR once.**
Recording will start. (The REC indicator will light in the display window.)
● REC indicator appears only when the Output Source is set to VCR.
● If a cassette with no safety tab is loaded, the cassette will be ejected automatically.

6 **Press STOP to stop recording.**
If the tape reaches the end before STOP is pressed, the DVD+VCR will automatically stop, rewind, eject, and it will turn itself off.

To pause the recording

1 Press PAUSE/STEP to pause the tape during recording.
The REC indicator will flash in the display window.

2 When you want to continue recording, press PAUSE/STEP or press REC/OTR.
● After 5 minutes in pause mode, the tape will be stopped automatically to protect the tape and the video heads.

To record one TV program while watching another

1 Press TV/VCR to select the TV mode during recording.
The TV indicator appears.

2 Using the TV, select the channel to be viewed.

𝒯 Tips

Always use PAUSE/STEP for best results when making changes during recording.
For example: To change channels during recording, first press PAUSE/STEP to put the unit in pause mode. Then select the desired channel on the DVD+VCR, and press PAUSE/STEP again to resume recording.

Timer Recording

This DVD+VCR can be programmed to record up to 8 programs within a period of 1 year. For unattended recording, the timer needs to know the channels to be recorded and the starting and ending times.

Things to know before starting

- If you try to set the program timer before setting the clock, PLEASE SET THE CLOCK appears for a moment and then CLOCK menu appears on the TV screen. Set the time and date before proceeding.
- Make sure a tape is in the DVD+VCR and the safety tab is in place or the tape will be automatically ejected.
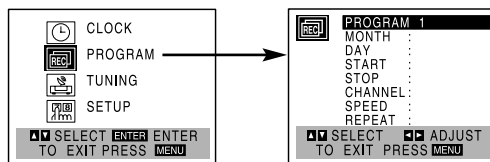
Preparation:
- Turn on the power of both the DVD+VCR and the TV.
- Be sure the TV is set to the DVD+VCR output channel (3 or 4).
- Make sure the TUNING BAND in the TUNING menu is set appropriately (TV or CATV).

1 Press VCR MENU and the MAIN menu will appear.

2 Use ▲/▼ to choose the PROGRAM menu.

3 Press ENTER to go to the PROGRAM menu. The PROGRAM menu will appear.
- If all programs have already been entered, FULLY PROGRAMMED message will appear for a moment and then PROGRAM 1 will appear on the TV screen.

```
┌─────────────────────┐  ┌─────────────────────┐
│ 🕐  CLOCK           │  │ 📼  PROGRAM 1       │
│                     │  │     MONTH :         │
│ 📼  PROGRAM ────────┼─→│     DAY   :         │
│                     │  │     START :         │
│ 🔧  TUNING          │  │     STOP  :         │
│                     │  │     CHANNEL:        │
│ 🕐  SETUP           │  │     SPEED :         │
│                     │  │     REPEAT:         │
│ ▲▼ SELECT ENTER ENTER│  │ ▲▼ SELECT  ◄► ADJUST│
│ TO EXIT PRESS MENU  │  │ TO EXIT PRESS MENU  │
└─────────────────────┘  └─────────────────────┘
```

4 Use ◄/► to choose the PROGRAM No. (1-8).

5 Use ▼ to choose the MONTH option. Use ◄/► to choose the desired month.

6 Use ▼ to choose the DAY option. Use ◄/► to choose the desired day.

7 Use ▼ to choose the START option. Use ◄/► to choose the desired start time. Press and hold ◄/► to advance the clock faster.

8 Use ▼ to choose the STOP option. Use ◄/► to choose the desired stop time. Press and hold ◄/► to advance the clock faster.

9 Use ▼ to choose the CHANNEL option. Use ◄/► to choose the desired channel (Channel, LINE1 or LINE2).
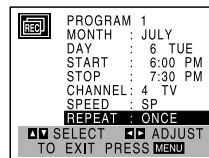
Cable Users: If you have CABLE TV and used Cable Box in Connecting Antenna/Cable TV to DVD+VCR (page 11), using a cable box converter, you must set the channel in this step to match the cable box output channel (usually CH 3 or 4). Change channels on the cable box instead of with the DVD+VCR.

10 Use ▼ to choose the SPEED option. Use ◄/► to choose the desired recording speed (AUTO, SP or SLP).
- AUTO mode determines how much tape is left and switches speed from SP to SLP, if necessary, to complete recording the program. There will be some picture and sound distortion at the point of the speed change.

11 Use ▼ to choose the REPEAT option. Use ◄/► to choose the desired repeat (ONCE, WEEKLY or DAILY).
ONCE event....for recording up to 8 programs on a single day or over the days within a period of 1 year.
WEEKLY event....for recording up to 8 programs on a certain day of every week.
DAILY event....for recording up to 8 programs at the same time(s) Monday through Friday.

```
┌─────────────────────┐
│ 📼  PROGRAM 1       │
│     MONTH  : JULY   │
│     DAY    :  6  TUE│
│     START  :  6:00 PM│
│     STOP   :  7:30 PM│
│     CHANNEL: 4  TV  │
│     SPEED  : SP     │
│     REPEAT : ONCE   │
│ ▲▼ SELECT  ◄► ADJUST│
│ TO EXIT PRESS MENU  │
└─────────────────────┘
```

Ⓣ Tip

If the input data is wrong, use ▲ to select the data and correct it using ◄/►.

12 Press VCR MENU, the program will be memorized at the DVD+VCR.
- TIMER indicator lights in the display window.
- If the program preset time is past, the PAST TIME PROGRAMMED message will appear on the TV screen. Return to the incorrect program and program it with the correct time.
- If you had entered a past date, the timer recording will be performed on that date of the next year.
- Additional programs may be entered by repeating steps **1-12**.

Cable Users: If your cable hookup is via a TV converter box, you can program multiple recordings only on the converter box output channel. This is because the converter determines what channel you view through your DVD+VCR.

13 Press STOP to stop timer recording.

Ⓣ Tip
If you have finished programming and you want to set the DVD+VCR to record the programs you have entered. **MAKE SURE YOU HAVE INSERTED A TAPE INTO THE DVD+VCR.** The DVD+VCR is now set to record the preset programs.

Ⓝ Note
If the power fails or the DVD+VCR is unplugged from the AC outlet, the correct clock time and timer settings are kept in memory for approximately 3 seconds. After 3 seconds, the clock and program timer must be reset when power is restored. Reset the clock according to instructions.
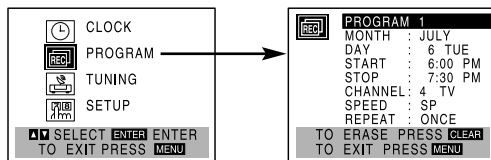
After setting a timer recording, it will start if a timer recording passes over the start time and stop at the programmed end time.

OPERATION
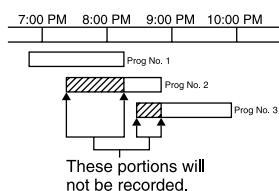
23

Checking (Erasing) the Timer Program

Programming can be checked whenever the DVD+VCR is turned on.

1 Press VCR MENU and the MAIN menu will appear.

2 Use ▲/▼ to choose the PROGRAM menu.
Press ENTER and the PROGRAM menu will appear.

```
 ⊙  CLOCK              REC  PROGRAM  1
REC  PROGRAM               MONTH  : JULY
                          DAY    :  6  TUE
 ⬚  TUNING                START  :  6:00  PM
                          STOP   :  7:30  PM
710  SETUP                CHANNEL: 4  TV
                          SPEED  : SP
▲▼ SELECT ENTER ENTER      REPEAT : ONCE
TO EXIT PRESS MENU         TO ERASE  PRESS CLEAR
                           TO EXIT  PRESS MENU
```

3 Use ◄/► to select a program you want to check or erase. If you want to erase the program, press CLEAR.

4 Press VCR MENU to return to the TV screen.

Program Priority

```
7:00 PM   8:00 PM   9:00 PM   10:00 PM

        Prog No. 1

        ////////// Prog No. 2

               ///// Prog No. 3

These portions will
not be recorded.
```

If the recording start and end times of preset programs overlap on the same day (see the example and diagram left), program number 2 will not be recorded until program number 1 is finished.

The first part of program number 2 will not be recorded. The same thing will happen to program number 3.

One touch Timer Recording(OTR)

One touch Timer Recording allows you to make a recording easily of a preset length without using the program timer.

Preparation:
- Turn on the power of both the DVD+VCR and the TV.
- Be sure the TV is tuned to the DVD+VCR output channel (3 or 4).
- If a direct VIDEO/AUDIO connection is made between the DVD+VCR and the TV, set the TV's source selector to VIDEO.

1 Insert a video cassette with the safety tab intact.

2 Select the desired channel by using CH/TRK (+/-) or number (0-9).
The channel number appears on the TV screen.
- If you are recording from another source via audio/video input jacks (at the Rear or Front panel), select the LINE1 or LINE2.

3 Set the desired recording speed (SP or SLP) by pressing SP/SLP.
The tape speed will appear on the TV screen.

4 Press REC/OTR twice.
The menu as illustrated, will appear on the TV screen.
- Recording will start. (The TIMER indicator will light)

5 Press REC/OTR repeatedly to select the recording time length.
At the end of the recording, the DVD+VCR will stop recording and shut off.
- During One touch Timer Recording, changing the channel on the DVD+VCR will not be possible.
- You can stop the recording by pressing STOP.

ONE TOUCH TIMER RECORD MENU

```
ONE TOUCH TIMER RECORD         0H30M ..... 9H00M → 0H00M

CHANNEL      2                      Length Display
SPEED        SP               (each additional press of
                                   REC/OTR increases
START        NOW             recording time 30 minutes)
LENGTH       0H30M
```

Checking the Recording Time

Press REC/OTR once to check the recording time. The recalled setting will automatically return to the TV screen after 6 seconds.

To extend the Recording Time

The recording time can be extended anytime by pressing REC/OTR.
Subsequent presses result in advancing the recording time by 30-minute increments to a maximum fo 9 hours.

ℕ Notes
- If you press PAUSE/STEP during One touch timer recording, the DVD+VCR will enter the recording pause mode. Instant timer recording is cancelled.
- If the DVD+VCR is set to "0H00M", the DVD+VCR goes to normal recording mode.

Dubbing and Editing

If you wish to edit or dub your camcorder (or another VCR) recordings to this DVD+VCR, the rear (or Front) panel mounted Audio and Video (A/V) input jacks make the connections quick and easy. These direct A/V jacks will also provide better picture results than using the RF jack on the rear panel.

1 **Connect the Camcorder's (or Another VCR's) A/V outputs to your DVD+VCR as illustrated on page 13.**

2 **Set the input channel "LINE2". (press INPUT SELECT to select LINE2.)**
- If you have connected your DVD+VCR to the A/V input jacks on the rear of DVD+VCR, you should select the input channel LINE1 by pressing **INPUT SELECT** twice.

3 **Play the tape in the camcorder (or another VCR). If you have a TV attached to your DVD+VCR, you can see the video playing.**

4 **When your desire recording begins, press DVD+VCR's REC/OTR once to start.**

N Note

Before recording, please confirm the recording start position.

Copying from DVD to VCR

This unit allows you to copy the contents of a DVD to a VHS tape.

N Note

If the DVD you are attempting to copy is copy protected, you will not be able to copy the disc. It is not permitted to copy Macrovision encoded DVDs. "Lock" is displayed in the display window.

1 **Insert Disc**
Insert the disc you wish to copy in the DVD deck and close the disc tray.

2 **Insert VHS Tape**
Insert a blank VHS video tape into the VCR deck.

3 **Press PLAY on the DVD deck.**
The DVD will go into play mode
- If the DVD disc menu appears, you may need to press the PLAY manually to begin copying.

4 **Press REC on the VCR deck.**
- The DVD+VCR will go into Record mode.
- "REC" indicator will light.

5 **Stop the Copy Process**
When the DVD has finished playing, press STOP (■) to stop the DVD playback. The recording on the VCR will be stopped automatically.

N Note

In case of insufficient tape length, the DVD+VCR will automatically rewind the tape to the beginning and be ejected. it also stops the DVD playback.
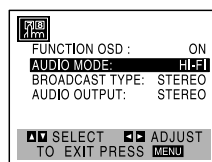
(25)

VHS Hi-Fi Stereo System/ MTS Broadcast

This DVD+VCR is equipped with the VHS Hi-Fi audio sound system for recording and playback. The information below gives a brief description of Hi-Fi audio and how to record and play a tape in the Hi-Fi audio mode.

Playback with Hi-Fi Stereo Audio Sound

A stereo TV with AUDIO/VIDEO input jacks or a stereo audio system is required for true stereo playback. To experience the full and rich stereo sound available with Hi-Fi recorded tapes, we recommend the connection of this unit to a home stereo audio system.

1 **Set the AUDIO MODE option to HI-FI on the SETUP menu .**

```
FUNCTION OSD :        ON
AUDIO MODE:           HI-FI
BROADCAST TYPE:  STEREO
AUDIO OUTPUT:       STEREO

▲▼ SELECT    ◄► ADJUST
TO  EXIT PRESS  MENU
```
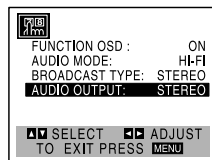
2 **Set the AUDIO OUTPUT option to STEREO position.**

(STEREO) POSITION: The left channel sound (L) is heard from the left speaker and the right channel sound (R) is heard from the right speaker.
(LEFT) POSITION: The left channel sound (L) is heard from both speakers.
(RIGHT) POSITION: The right channel sound (R) is heard from both speakers.

```
FUNCTION OSD :        ON
AUDIO MODE:           HI-FI
BROADCAST TYPE:  STEREO
AUDIO OUTPUT:       STEREO

▲▼ SELECT    ◄► ADJUST
TO  EXIT PRESS  MENU
```

3 **Press VCR MENU.**

4 **Insert a cassette and press PLAY.**
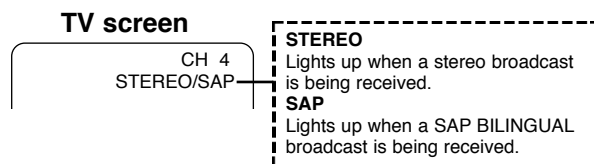Adjust volume at your stereo system.

MTS (Multi-Channel TV Sound)

This DVD+VCR will decode MTS stereo and bilingual (SAP) off-the-air broadcast sound signals. It also decodes stereo TV sound from local cable companies, as long as they operate on assigned cable frequencies and use the EIA-recommended MTS stereo/bilingual TV sound system.

Multichannel TV Sound Indicator (MTS)

Shows Onscreen as illustrated below when **ENTER** is pressed.
● One or both of the indicators will light, depending on the MTS broadcast.

TV screen

```
        CH  4
STEREO/SAP
```

```
STEREO
Lights up when a stereo broadcast
is being received.
SAP
Lights up when a SAP BILINGUAL
broadcast is being received.
```

If only STEREO appears on the TV screen.
The DVD+VCR can record in stereo onto the VHS Hi-Fi audio tracks when the BROADCAST TYPE option is in the STEREO position. The DVD+VCR will also record mono audio onto the mono audio track.

If only SAP appears on the TV screen.
Set the BROADCAST TYPE option to SAP.

If STEREO/SAP appears on the TV screen
Use the BROADCAST TYPE option to select the desired recording mode (STEREO or SAP).

SAP (Second Audio Program) Recording

Some stations transmit a Second Audio Program, which is used for a second language or additional information. When the station broadcasts a Second Audio Program, follow the procedure below to record the SAP.

1 **Insert a video cassette with the safety tab intact.**

2 **Set the BROADCAST TYPE option to SAP (SETUP menu).**
Do this if only the SAP appears on the TV screen or you know the program will use the SAP.

```
FUNCTION OSD :        ON
AUDIO MODE:           HI-FI
BROADCAST TYPE:      SAP
AUDIO OUTPUT:       STEREO

▲▼ SELECT    ◄► ADJUST
TO  EXIT PRESS  MENU
```
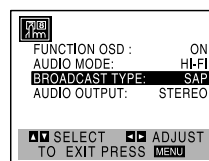
3 **Press VCR MENU.**

4 **Set the desired recording speed (SP or SLP) by pressing SP/SLP.**

5 **Select the desired channel. The SAP should appear on the TV screen.**

6 **Press REC/OTR once**
You are now recording the program you see and hear on the TV.

7 **Press STOP to stop recording.**

26

Tape Counter Memory Feature

Real-Time Counter
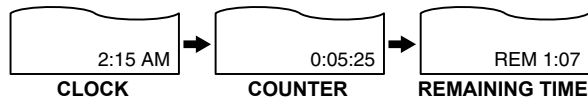
Shows length of tape run in hours, minutes, and seconds. Press **CLK/CNT** to select the real-time counter display.
Every press of **CLK/CNT** changes the TV screen as illustrated below.

2:15 AM	→	0:05:25	→	REM 1:07
CLOCK		**COUNTER**		**REMAINING TIME**

- Counter changes to "0:00:00" when the cassette is ejected.
- The real-time counter does not operate if nothing is recorded on the tape.
- The real-time counter will not work unless a tape is inserted.

Counter Memory Function

This is useful if there is a section of tape you want to view immediately after recording or if you want to return to the same point several times.

1 **Begin recording or playing a tape.**

2 **Press CLK/CNT repeatedly to display the real-time counter appears on the TV screen.**

3 **At the point that you want locate later, reset the real-time counter to "0:00:00" by pressing COUNTER RESET.**

4 **Continue to play or record.**

5 **Press STOP when recording or playback finishes.**

6 **Press REW.**
The tape automatically stops when the tape counter returns to about "0:00:00".

Tape Remaining

This function allows the time of the remaining tape to be displayed during recording or playback.
Press **CLK/CNT** until the REM indicator displays on the TV screen during recording or playback.

🅝 Note

The remaining tape length indicator may not be displayed correctly depending on the condition of the tape and the kind of the tape (T-140, T-160, or T-210 etc)

Additional Information

- In manual recording, Timer recording, One-touch Timer Recording, playback, or fast forward modes, the DVD+VCR automatically starts rewinding the tape at the end of the tape. The cassette will stop at the beginning of the tape and be ejected, and the DVD+VCR will turn itself off.
- After you have finished using the DVD+VCR, rewind, eject, and remove the cassette. Place the cassette in its protective sleeve to protect it from dust. It is not necessary to rewind the cassette before removing it, but if you do, it will be ready to play or record the next time you use it.
- Be sure the DVD+VCR Channel Selector is on the correct channel you wish to record. The channel that is being recorded can always be checked by setting the television on the DVD+VCR channel (3 or 4) and pressing the **TV/VCR** selector to turn the DVD+VCR's TV indicator off.
- Do not attempt to hook up more than one television set to the DVD+VCR for either recording or playback.

S-VHS Quasi Playback (SQPB)

- This DVD+VCR can also play back a tape which is recorded in S-VHS playback picture.
- This DVD+VCR cannot record in S-VHS format
- SQPB is an abbreviation for S-VHS Quasi Playback.

Auto Play System

This DVD+VCR features automatic playback.
Load a cassette (with the safety tab removed).
- The Output Source is changed to VCR mode automattically.
- The power turns on automatically and playback begins.
- At the end of the tape, the DVD+VCR stops, then rewinds.
- The cassette is ejected after rewinding and goto standby.

LOAD TAPE	▶	AUTO PLAY	▶	AUTO REWIND	▶	AUTO EJECT	▶	AUTO POWER OFF
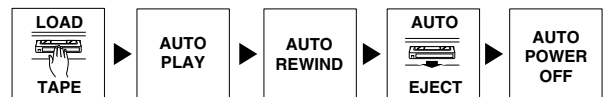
Video Head Cleaning

- Whenever a video cassette is inserted into or ejected from this unit the video head is automatically cleaned.
- However, it is possible that the heads may become clogged when playing an old or damaged tape. If the image on your screen resembles the picture on the left while playing back a tape, the heads may require cleaning.
- To clean the heads, obtain a head cleaning tape from your local video dealer. Follows the instructions that come with the cleaning tape, as excessive use can shorten head life.

Blank Search

The Blank Search enables you to locate the end of any recording. Whenever a recording creates, a blank content is recorded on the tape.
Press BLANK SEARCH during playback or in the stop mode and rapidly advanced to find blank content.
To find next blank content, press BLANK SEARCH again.

OPERATION

27

Playing a DVD and Video CD

𝒯 Playback Setup DVD VCD2.0 VCD1.1

● Turn on the TV and select the video input source connected to the DVD+VCR.
● Audio system: Turn on the audio system and select the input source connected to the DVD+VCR.

1 Press OPEN/CLOSE ⏏ to open the disc tray.

2 Load your chosen disc in the tray, with the playback side down.
When a double-sided DVD is inserted, make sure the side you want to play is facing up.

3 Press OPEN/CLOSE ⏏ to close the tray.
READING appears on the TV screen, and playback starts automatically. If playback does not start, press PLAY ►.
In some cases, the disc menu might appear instead.

4 To stop the playback, press STOP ■.
Then press OPEN/CLOSE ⏏ on the unit.
The disc tray opens.
Remove the disc and press OPEN/CLOSE ⏏ on the unit then press ON/STANDBY I/⏻.
The disc tray closes automatically and unit turns off.

𝒯 If a menu screen is displayed
The menu screen may be displayed first after loading a DVD or Video CD which offer a menu.

DVD

Use the ◄ ► ▲ ▼ buttons to select the title/chapter you want to view, then press ENTER to start playback.
Press TOP MENU or MENU to return to the menu screen.

VCD2.0

● Use the number buttons to select the track you want to view.
Press RETURN to return to the menu screen.
● Menu setting and the exact operating procedures for using the menu may differ depending on the disc. Follow the instructions on the each menu screen. You also may set PBC to Off under setup. See page 19.

𝒩 Notes
– If Parental Control is set and the disc is not within the Rating settings (not authorized), the 4-digit code must be entered and/or the disc must be authorized (see "Parental Control", on page 20).
– DVDs may have a region code.
Your player will not play discs that have a region code different from your player. The region code for this player is 1 (one).

28

General Features

𝒩 Note
Unless stated otherwise, all operations described use the remote control. Some features may also be available on the Setup menu.

Moving to another TITLE DVD   🇹 1/3

When a disc has more than one title, you can move to another title as follows:
● Press DISPLAY, then press the appropriate numbered button (0-9) to select a title number.

Moving to another CHAPTER/TRACK

DVD **VCD1.1**   © 1/12   🇹 1/3

When a title on a disc has more than one chapter or a disc has more than one track, you can move to another chapter/track as follows:
● Press SKIP ►►I or I◄◄ briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.
● Press SKIP I◄◄ twice in quick successions to step back to the previous chapter/track.
● To go directly to any chapter during DVD playback, press DISPLAY. Then, press ▲/▼ to select chapter/track icon. Then, enter the chapter/track number using the numbered buttons (0-9).

𝒩 Note
For two-digit numbers, press the numbered buttons (0-9) in rapid succession.

Search DVD VCD2.0 VCD1.1

1 Press REW ◄◄ or FF ►► during playback.
The player will now go into SEARCH mode.
2 Press REW ◄◄ or FF ►► repeatedly to select the required speed:
◄◄X2, ◄◄X4, ◄◄X16, ◄◄X100 (backward) or ►►X2, ►►X4, ►►X16, ►►X100 (forward).
With a Video CD, the Search speed changes:
◄◄X2, ◄◄X4, ◄◄X8 (backward) or ►►X2, ►►X4, ►►X8 (forward).
3 To return to playback, press PLAY ►.

Still Picture and Frame-by-Frame Playback
DVD **VCD2.0** **VCD1.1**
1 Press PAUSE/STEP II/II► during playback.
The player will now go into PAUSE mode.
2 You can advance the picture frame-by-frame by pressing PAUSE/STEP II/II► repeatedly on the remote control.

General Features (continued)

Slow Motion DVD VCD2.0 VCD1.1

1 Press **SLOW I▶** during playback or still mode.
The player will enter SLOW mode.
2 Press **SLOW I▶** repeatedly to select the required speed : ▶ 1/16, ▶ 1/8, ▶ 1/4 or ▶ 1/2 (forward).
3 To exit slow motion mode, press PLAY ▶.

Random Karaoke DVD VCD2.0 VCD1.1

1 Press **RANDOM** during playback or in stop mode.
The unit automatically begins Random Playback and "RANDOM" appears on the TV screen.
2 To return to normal playback, press **RANDOM** again until "NORMAL" appears on the TV screen.

𝒯 Tip

By pressing SKIP I◀◀ or ▶▶I during Random playback, the unit selects another title (track) and resumes Random playback.

𝒩 Notes

● This function only works with DVD karaoke discs and video CD without PBC.
● On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Random function. See page 19.

Repeat DVD VCD2.0 VCD1.1

[CHAPT] [TITLE] [TRACK] [ALL] [OFF]

DVD Video Discs - Repeat Chapter/Title/Off

1 To repeat the currently playing chapter, press **REPEAT**.
The Repeat Chapter icon appears on the TV screen.
2 To repeat the title currently playing, press **REPEAT** a second time.
The Repeat Title icon appears on the TV screen.
3 To exit Repeat mode, press **REPEAT** a third time.
The Repeat Off icon appears on the TV screen.

Video CDs - Repeat Track/All/Off

1 To repeat the track currently playing, press **REPEAT**.
The Repeat Track icon appears on the TV screen.
2 To repeat the disc currently playing, press **REPEAT** a second time.
The Repeat All icon appears on the TV screen.
3 To exit Repeat mode, press **REPEAT** a third time.
The Repeat Off icon appears on the TV screen.

𝒩 Note

On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Repeat function. See page 19.

Repeat A-B DVD VCD2.0 VCD1.1

[A *] [A B] [OFF]

To repeat a sequence in a title:

1 Press **A-B RPT** at your chosen starting point.
"A *" appears briefly on the TV screen.
2 Press **A-B RPT** again at your chosen end point.
"A B" appears briefly on the TV screen, and the repeat sequence begins ("A ↔ B" appears the display window).
3 To cancel the sequence, press **A-B RPT**.

Time Search DVD [0:16:57] [-:--:--]

The Time Search function allows you to start playing at any chosen time on the disc.

1 Press **DISPLAY** during playback. The on-screen display appears on the screen.
The Time Search box shows the elapsed playing time of the current disc.
2 Within 10 seconds, press ▲/▼ to select the Time Search icon in the on-screen display.
The "-:--:--" appears in the Time Search box.
3 Within 10 seconds, use the number buttons to enter the required start time. Enter hours, minutes, and seconds from left to right in the box.
If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then enter the correct numbers.
4 Within 10 seconds, press ENTER to confirm the start time.
Playback starts from the selected time on the disc. If you enter an invalid time, playback will continue from the current point.

3D Surround DVD VCD2.0 VCD1.1

[NORM.] [3D SUR] [DIALOGUE]

This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multi-channel audio from a home theater system.

1 Press DISPLAY during playback.
2 Use ▲/▼ to select the sound icon.
The sound option will be highlighted.
3 Use ◀/▶ to select "NORM.", "3D SUR" or "DIALOGUE".

𝒩 Note
"DIALOGUE" is only applicable to DVD discs.

OPERATION

29

General Features (continued)

Zoom `DVD` `VCD2.0` `VCD1.1`

The Zoom function allows you to enlarge the video image and to move through the enlarged image.

1 Press **ZOOM** during playback or still playback to activate the Zoom function.
   If you press **ZOOM** repeatedly, the magnification level increase up to six steps

2 Use the ◄ ► ▲ ▼ buttons to move through the zoomed picture.

3 Press **CLEAR** to resume normal playback or return to the paused image.

𝒩 Note
The zoom function may not work for some DVDs.

Marker Search `DVD` `VCD2.0` `VCD1.1`

You can start playback from a memorized point. Up to nine points can be memorized.
To enter a mark, follow these steps.

1 During disc playback, press **MARKER** when playback reaches the spot that you want to memorize.
   The Marker icon will appear on the TV screen briefly.

2 Repeat step 1 to enter up to nine Marker points on a disc.

To Recall a Marked Scene

1 During disc playback, press **SEARCH**.
   The MARKER SEARCH menu will appear on the screen.

2 Within 10 seconds, press ◄/► to select a Marker number that you want to recall.

3 Press **ENTER**.
   Playback will start from the Marked scene.

4 To remove the MARKER SEARCH menu, press **SEARCH**.

To clear a Marked Scene

1 During disc playback, press **SEARCH**.
   The Marker Search menu will appear on the screen.

2 Within 10 seconds, press ◄/► to select a Marker number that you want to erase.

3 Press **CLEAR**.
   The Marker number will be erased from the list.

4 Repeat steps 2 and 3 to erase additional Marker numbers.

5 To remove the MARKER SEARCH menu, press **SEARCH**.

Special DVD Features `DVD`

Checking the contents of DVD Video discs: Menus

DVDs may offer menus that allow you to access special features. To use the disc menu, press **MENU**.
Then, press the appropriate number button to select an option. Or, use the ◄/►/▲/▼ buttons to highlight your selection, then press **ENTER**.

Title Menu `DVD`

1 Press **TOP MENU**.
   If the current title has a menu, the menu will appear on the screen. Otherwise, the disc menu may appear.

2 The menu can list camera angles, spoken language and subtitle options, and chapters for the title.

3 To remove the title menu, press **TOP MENU** again.

Disc Menu `DVD`

1 Press **MENU**.
   The disc menu is displayed.

2 To remove the disc menu, press **MENU** again.

Camera Angle `DVD`

If the disc contains sequences recorded from different camera angles, the angle icon blinks on the TV screen. You can then change the camera angle if you wish.

● Press **ANGLE** repeatedly during playback to select a desired angle.
   The number of the current angle appears on the display.

Changing the Audio Language `DVD`

Press **AUDIO** repeatedly during playback to hear a different audio language or audio track.

Changing the Audio Channel

`VCD2.0` `VCD1.1`

Press **AUDIO** repeatedly during playback to hear a different audio channel (STEREO, LEFT or RIGHT).

Subtitles `DVD`

Press **SUBTITLE** repeatedly during playback to see the different subtitle languages.

𝒩 Note
If ⊘ appears, the feature is not available on the disc.

30

Playing an Audio CD and MP3/WMA Disc

CD **MP3** **WMA**

The DVD Player can play MP3/WMA formatted recordings on CD-ROM, CD-R or CD-RW discs.
Before playing MP3/WMA recordings, read the notes on MP3/WMA Recordings on right.

1 **Insert a disc and close the tray.**
Audio CD; Audio CD menu appears on the TV screen go to step 4.
MP3/WMA disc; The MP3/WMA-JPEG choice menu appears on the TV screen go to step 2.

🎵	MP3|WMA
🖼	JPEG

2 **Use ▲/▼ to select the MP3/WMA then press ENTER.**
The MP3/WMA menu appears on the TV screen. Press RETURN to move to the MP3/WMA-JPEG choice menu.

MP3|WMA	Program
📁 Folder1	
📁 Folder2	
📁 Folder3	
📁 Folder4	
📁 Folder5	
📁 Folder6	
📁 Folder7	
📁 Folder8	Clear All
■ 00:00 🏺 🔊 OFF	
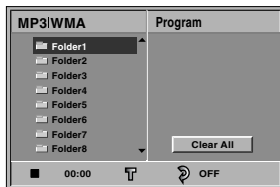
3 **Use ▲/▼ to select a folder then press ENTER.**
A list of files in the folder appears.

4 **Use ▲/▼ to select a track then press PLAY ▶ or ENTER.**
Playback starts.
During playback, the current track's elapsed playing time will appear on the display window and menu.
Playback will stop at the end of the disc.
Press TOP MENU to move to the next page.
Press MENU to move to the previous page.

CD	Program
TRACK01	
TRACK02	
TRACK03	
TRACK04	
TRACK05	
TRACK06	
TRACK07	
TRACK08	Clear All
■ 0: 56: 18 🔊 STER. 🔊 NORM.	

MP3|WMA	Program
📁 ..	
FILE 1	
FILE 2	
FILE 3	
FILE 4	
FILE 5	
FILE 6	
FILE 7	
FILE 8	Clear All
■ 00:00 🏺 1 🔊 OFF	
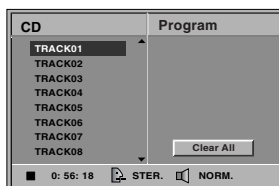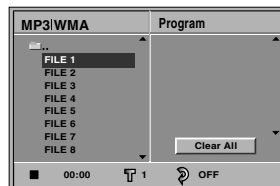
Audio CD Menu   **MP3/WMA Menu**

🎵 **Tip**
If you are in a file list and want to return to the Folder list, use the ▲/▼ to highlight 📁.. and press ENTER to return to the previous menu screen.

5 **To stop playback at any other time, press STOP ■.**

Notes on MP3/WMA Recordings

About MP3

● An MP3 file is audio data compressed by using the MPEG1 audio layer-3 file-coding scheme. We call files that have the ".mp3" file extension "MP3 files".
● The player cannot read an MP3 file that has a file extension other than ".mp3".

About WMA(Window Media Audio)

● An WMA file is a Microsoft audio compression technology.
● WMA(Windows Media Audio) offers double the audio compression of the MP3 format.

MP3/WMA Disc compatibility with this player is limited as follows:

1. Sampling Frequency / only at 44.1kHz (MP3), 22.05 - 44.1kHz (WMA)
2. Bit rate / within 32 - 320kbps (MP3), 32 - 128kbps (WMA)
3. CD-R physical format should be "ISO 9660"
4. If you record MP3/WMA files using the software which cannot create a FILE SYSTEM, for example "Direct-CD" etc., it is impossible to playback MP3/WMA files. We recommend that you use "Easy-CD Creator", which creates an ISO9660 file system.
5. A single session disc requires MP3/WMA files in the first track. If there is no MP3/WMA file in the 1st track, it cannot playback MP3/WMA files. If you wish to playback MP3/WMA files, format all the data in the disc or use a new one.
6. File names should be named using 8 letters or less and must incorporate ".mp3" or ".wma" extension e.g. "********.MP3" or "********.WMA".
7. Do not use special letters such as "/ : * ? " < > " etc.
8. Total number of files on the disc should be less than 650.

This DVD+VCR requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 or WMA files). That require certain pre-existing conditions (see above) to insure compatible playback.

Customers should also note that permission is required in order to download MP3/WMA files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

OPERATION

31

Operation with Audio CD and MP3/WMA Disc (Continued)

Pause CD MP3 WMA

1 Press **PAUSE/STEP ❙❙/❙▶** during playback.

2 To return to playback, press **PLAY ▶** or press
PAUSE/STEP ❙❙/❙▶ again.

Moving to another Track CD MP3 WMA

● Press **SKIP ▶▶❙** or **❙◀◀** briefly during
playback to go to the next track or to return to the
beginning of the current track.

● Press **SKIP ❙◀◀** twice in quick successions to step
back to the previous track.

● In case of audio CD, to go directly to any track, enter
the track number using the numbered buttons (0-9)
during playback.

Repeat Track/All/Off CD MP3 WMA

1 To repeat the track currently playing, press **REPEAT**.
The Repeat icon and "TRACK" appears on the menu
screen.

2 To repeat all tracks on a disc, press **REPEAT** a
second time.
The Repeat icon and "ALL" appears on the menu screen.

3 To cancel Repeat mode, press **REPEAT** a third time.
The Repeat icon and "OFF" appears on the menu screen.

Search CD MP3 WMA

1 Press **REW ◀◀** or **FF ▶▶** during playback.
The player will now go into **SEARCH** mode.

2 Press **REW ◀◀** or **FF ▶▶** repeatedly to select the
required speed: ◀◀X2, ◀◀X4, ◀◀X8 (backward) or
▶▶X2, ▶▶X4, ▶▶X8 (forward).
Search speed and direction are indicated on the menu
screen.

3 To exit SEARCH mode, press **PLAY ▶**.

Random CD MP3 WMA

1 Press **RANDOM** during playback or when playback is
stopped.
The unit automatically begins Random Playback and
"RAND." appears on the menu screen.

2 To return to normal playback, press **RANDOM**.
"RAND." disappears on the menu screen.

Repeat A-B CD

To repeat a sequence.
1 During disc playback, press **A-B RPT** at your chosen
starting point.
The Repeat icon and "A * " appears on the menu screen.

2 Press **A-B RPT** again at your chosen end point.
The Repeat icon and "A B" appears on the menu screen,
and the sequence begins to play repeatedly.

3 To exit the sequence and return to normal play, press
A-B RPT again.
The Repeat icon and "OFF" appears on the menu screen.

3D Surround CD

This unit can produce a 3D Surround effect, which
simulates multi-channel audio playback from two
conventional stereo speakers, instead of the five or
more speakers normally required to listen to multi-
channel audio from a home theater system.

1 Press **DISPLAY** or **AUDIO** during playback.

2 Use ◀/▶ to select the sound icon.
The sound option will be highlighted.

3 Use ▲/▼ to select "NORM.", or "3D SUR".

Changing the Audio Channel CD

Press **AUDIO** repeatedly during playback to hear a
different audio channel (STER., LEFT, or RIGHT).

Viewing a JPEG disc JPEG

This DVD+VCR can play discs with JPEG files. Before playing JPEG recordings, read the notes on JPEG Recordings on right.

1 **Insert a disc and close the tray.**
The MP3/WMA-JPEG choice menu appears on the TV screen.

> MP3WMA
> JPEG

2 **Press ▲/▼ to select the JPEG then press ENTER.**
The JPEG menu appears on the TV screen.

> JPEG
> Folder1
> Folder2
> Folder3
> Folder4
> Folder5
> Folder6
> Folder7
> Folder8
> Slide Speed   Off

3 **Press ▲/▼ to select a folder then press ENTER.**
A list of files in the folder appears.
Press RETURN to move to the MP3/WMA-JPEG choice menu.

🅣 Tip

If you are in a file list and want to return to the Folder list, use the ▲/▼ buttons on the remote to highlight " 🖿·· " and press ENTER to return to the previous menu screen.

4 **If you want to view a particular file, press ▲/▼ to highlight a file and press ENTER or PLAY ►.**
Viewing the file proceeding starts.
During viewing a file, press RETURN to move to the previous menu (JPEG menu).
Press TOP MENU to move to the next page.
Press MENU to move to the previous page.

> JPEG   Folder1
> 🖿··
> Picture1
> Picture2
> Picture3
> Picture4
> Picture5
> Picture6
> Picture7
> 5/32   1024X768   Slide Speed   Off
>
> 5/32   1024X768   Picture5.jpg
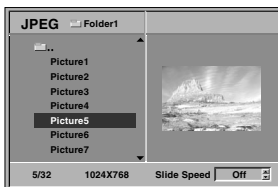
🅣 Tip

There are three viewing Slide Speed options: Fast, Normal, Slow, and Off. Press ◄/► to highlight the Slide Speed then press ▲/▼ to select the option you want to use, and press ENTER.

5 **To stop viewing at any other time, press STOP ■.**
The JPEG menu appears.

Moving to another File

Press **SKIP** I◄◄ or ►►I once during viewing a picture to advance to the next file or to the previous file.

Still Picture

1 Press **PAUSE/STEP** II/I► during slide show.
The player will now go into PAUSE mode.
2 To return to the slide show, press **PLAY** ► or press **PAUSE/STEP** II/I► again.

To flip the picture

Press ▲/▼ during showing a picture to flip the picture horizontally or vertically.

To rotate picture

Press ◄/► during showing a picture to rotate the picture clockwise or counter clockwise.

Notes on JPEG Recordings

● Depending upon the size and number of the JPEG files, it could take a long time for the DVD+VCR to read the disc's contents. If you don't see an on-screen display after several minutes, some of the files are too big — reduce the resolution of the JPEG files to less than 2 mega pixels and burn another disc.

● Total number of files and folders on the disc should be less than 650.

● Some disc may be incompatible due to different recording format or condition of disc.

● When you are using software such as "Easy CD Creator" to burn the jpeg files into the CD-R, ensure that all the selected files have the ".jpg" extensions when copying into the CD layout.

● If the files have ".jpe" or ".jpeg" extensions, please rename them as ".jpg" files.

● File names without ".jpg" extension will not be able to be read by this DVD+VCR. Even though the files are shown as JPEG image files in windows explorer.

OPERATION

33

Programmed Playback with Audio CD and MP3/WMA Disc

The Program function enables you to store your favorite tracks from any disc in the player memory.

Program can contain 30 tracks.

1 **Press PROGRAM during playback or in the stop mode to enter the Program Edit mode.**

The $\boxed{E}$ mark will appear to the right of the word Program on the right side of the menu screen.

$\boxed{N}$ **Note**
Press PROGRAM to exit the Program Edit mode; the $\boxed{E}$ mark will disappear.

2 **Select a track, then press ENTER to place the selected track on the Program list.**

3 **Repeat step 2 to place additional tracks on the Program list.**

CD		Program	$\boxed{E}$
TRACK 1		TRACK 12	
TRACK 2		TRACK 8	
TRACK 3		TRACK 10	
TRACK 4		TRACK 3	
TRACK 5			
TRACK 6			
TRACK 7			
TRACK 8		Clear All	

■ 0: 56: 18   STER.   NORM.

Audio CD Menu

MP3|WMA		Program	$\boxed{E}$
...		FILE 8	
FILE 1		FILE 2	
FILE 2		FILE 4	
FILE 3		FILE 3	
FILE 4			
FILE 5			
FILE 6			
FILE 7			
FILE 8		Clear All	

■ 00:00   3   OFF
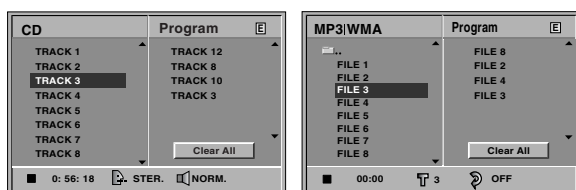
MP3/WMA Menu

4 **Press ▶.**
The programmed track you selected last is highlighted on the program list.

5 **Press ▲/▼ to select the track you want to start playing.**
Press TOP MENU to move to the next page.
Press MENU to move to the previous page.

6 **Press PLAY ▶ or ENTER to start.**
Playback begins in the order in which you programmed the tracks and "PROG." appears on the menu screen.
Playback stops after all of the tracks on the Program list have played once.

7 **To resume normal playback from programmed playback, press PROGRAM.**
Select a track of CD (or MP3/WMA) list and then press ENTER.
"PROG." indicator disappears from the menu screen.

Programmed Playback with Video CD

$\boxed{N}$ **Note**
On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Program function. See page 19.

34

1 **Insert Video CD and close the tray.**

2 **Press PROGRAM while playback is stopped.**
The VCD Program menu will appear.

VCD		Program	$\boxed{E}$
TRACK 1	▲		
TRACK 2			
TRACK 3			
TRACK 4			
TRACK 5			
TRACK 6			
TRACK 7			
TRACK 8	▼	Clear All	
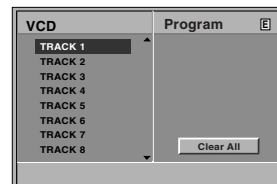
$\boxed{N}$ **Note**
Press RETURN or PROGRAM to exit the Program menu.

3 **Follow steps 2-5 of "Programmed Playback with Audio CD and MP3/WMA disc" on left.**

4 **Press PLAY ▶ or ENTER to start.**
Playback begins in the order in which you programmed the tracks. "PROGRAM" indicator will appear briefly on the TV screen.
Playback stops after all of the tracks on the Program list have played once.

5 **To resume normal playback from programmed playback, press PROGRAM.**
"NORMAL" indicator will appear briefly on the TV screen.

Repeat Programmed Tracks

● To repeat the track currently playing, press **REPEAT**.
The Repeat icon and "TRACK" appears on the menu screen.
● To repeat all tracks on the program list, press **REPEAT** a second time.
The Repeat icon and "ALL" appears on the menu screen.
● To cancel Repeat mode, press **REPEAT** a third time.
The Repeat icon and "OFF" appears on the menu screen.

Erasing a Track from Program List

1 Press **PROGRAM** during playback (Audio CD and MP3/WMA disc only) or in the stop mode to enter the Program Edit mode.

The $\boxed{E}$ mark will appear.
2 Press ▶ to move to the Program list.
3 Use ▲/▼ to select the track that you wish to erase from the Program list.
4 Press CLEAR.
The track will be erased from the Program list.

Erasing the Complete Program List

1 Follow steps 1-2 of "Erasing a Track from Program List" as above.
2 Use ▲/▼ to select "Clear All", then press **ENTER**.
The complete Program for the disc will be erased.
The programs are also cleared when the disc is removed.

Additional Operation

One Touch Replay

Press INSTANT REPLAY during playback and the disc will reverse picture search through 10 seconds of playback. And then the playback will start from the point again.

Screen Saver

A screen saver image appears when you leave the DVD Player in stop mode for about five minutes.

Video Mode Setting **DVD**

- With certain discs, the playback picture may be flickering or Dot Crawl is shown on straight lines. That means Vertical interpolation or De-interlace is not perfectly matched with the disc. In this case, the picture quality may be improved by changing the video mode.

- To change the video mode, press and hold DISPLAY about 3 seconds during disc playback. The new video mode selected is displayed on the TV screen. Check whether the video quality has improved. If not, repeat the above procedure until picture quality is improved.

- Video mode sequence:
  Auto → Film → Video → Auto

- If you turn off the power, the video mode will return to initial default state (Auto).

$\mathcal{T}$ Detailed Description of each Video Mode

Auto : The source material of the DVD video (film material or video material) is determined from disc information.

Film : Suitable for playing film based content or video based material recorded by the progressive scan method.

Video : Suitable for playing video based content with comparatively little motion.

$\mathcal{N}$ Note

The video mode setting only works when the Progressive Scan mode is set to "On" on the setup menu.

OPERATION

35

Controlling Your TV with the Supplied Remote

The remote control can be compatible with various brands of TV/Cable box/DSS satellite receiver by setting their control codes. The TOSHIBA code has initially been set to control TOSHIBA TVs.

Setting TV Control Codes

1. **Press TV to set the remote control operating your TV.**

2. **While holding down PROGRAM button, enter the two digits of your TV's brand code (listed on page 37) using number buttons.**

3. **Release PROGRAM.**

By pressing	You can
POWER	Turn the TV on or off.
CH/TRK +/–	To select TV channels in the upper or lower direction.
VOL +/–	Adjust the volume of the TV.
Number buttons	To select TV channels. When selecting channels 1 to 9, first enter 0 and then the desired number.
100	To substitute for 100 channel key.
DISPLAY	To turn on or off TV's screen display.
INPUT SELECT	Switch the TV's input source between the TV and other input sources.

Important

Some TV's may not respond to all the operations above, or may not be operated at all with this remote control. In this case, operate your TV with its own remote control.

𝒩 Note

● For some brands, several control codes (brand codes) are allocated. Try each of them until the buttons work on your TV.
● If you replace the remote control's batteries, set the brand code again.

Remote control labels: DISPLAY, INPUT SELECT, TV, POWER, PROGRAM, Number buttons, 100, CH/TRK, VOL, ENTER

36

Table of TV Brand Codes

REFERENCE

Brand name of your TV	Brand Code
Toshiba	01
Bell & Howell	09
Carver	10
Celebrity	03
Citizen	12
Curtis Mathes	09, 12
Dumont	14
Electro band	03
Emerson	09, 11
Fisher	09
GE	02, 07, 11
Gibraiter	14
Goldstar	11
Hallmark	11
Hitachi	06
Infinity	10
JBL	10
JCB	03
JVC	05
LXI	01, 02, 09, 10, 11
Magnavox	10
Marantz	10
Megatron	06, 11
Memorex	04, 09, 11
MGA	04, 11
Midland	02, 07, 14
Mitsubishi	04, 11
Motorola	08
MTC	12
NAD	01, 11
Nikko	11
Optimus	09
Optonica	08
Panasonic	07, 10, 15
Penney	01, 02, 07, 11, 12
Philco	10
Philips	10
Pioneer	16
Princeclub	12
Prism	07
Proscan	02
Proton	11
Pulser	14
Quasar	07, 15
Radio Shack	13
RCA	02
Realistic	09, 11, 13

Brand name of your TV	Brand Code
Runco (NEC)	14
Samsung	11,12
Sanyo	09
Scotch	11
Scott	11
Sears	01, 02, 09, 10, 11
Sharp	08, 13
Sony	03
Soundesign	11
Supreme	03
Sylvania	10
Tandy	08
Technics	07, 15
Techwood	07
Teknika	04, 10, 12
TMK	11
Victor	05
Vidikron	10
Vidtech	11
Wards	10, 11, 13
Zenith	14

Controlling Your Cable Box/DSS® Satellite Receiver

Setting Cable Box/DSS® Satellite
Receiver Control Codes

1. **Press CABLE BOX to set the remote control operating your Cable box/DSS® Satellite Receiver.**

2. **While holding down PROGRAM button, enter the two digits of your Cable box/DSS® Satellite Receiver Brand Code (listed on page 39) using number buttons.**

3. **Release PROGRAM.**

Point the remote control at your Cable box/DSS® satellite Receiver and use each button listed below to make sure that your Cable box/DSS® satellite receiver is operated correctly.

By pressing	You can
POWER	Turn the Cable box/DSS® satellite receiver on or off.
CH/TRK +/–	To select Cable box/DSS® satellite receiver channels in the upper or lower direction, (Not applicable to some brands of Cable box/DSS® satellite Receiver.)
Number buttons	To select desired channels to record.
ENTER	To use for the Cable box's Enter Key.

(Some cable boxes require you to use 100 button as the enter button.)

> ### Important
> Some Cable box/DSS® satellite receiver may not respond to all the operations above, or may not be operated at all with this remote control. In this case, operate them with its own remote control.

Note
- For some brands, several control codes (brand codes) are allocated. Try each of them until the buttons work on your TV.
- If you replace the remote control's batteries, set the brand code again.

CABLE BOX

POWER

PROGRAM

Number buttons

100

CH/TRK

ENTER

TOSHIBA

38

Table of Cable Box Brand Codes

Brand name of your Cable box	Brand Code
Toshiba	36
Anvision	13, 20, 21, 22, 23, 24, 25, 26, 58, 62, 84
Archer	1, 20, 21, 29, 42, 44, 63, 88, 91
Cablestar	13, 20, 21, 22, 23, 24, 25, 26, 58, 62, 84
Cableview	30, 42, 44, 52, 63, 88
Citizen	30, 42, 44, 52, 63, 88
Curtis	8, 9, 56, 61
Diamond	1, 20, 21, 29, 42, 44, 63, 88, 91
Eagle	13, 20, 21, 22, 23, 24, 25, 26, 58, 62, 84
Eastern	26, 28
GC Brand	30, 42, 44, 52, 63, 88
Gemini	4, 30, 85
General Instrument	1, 2, 3, 4, 31, 34, 55, 83, 85, 91
Hamlin	14, 15, 28, 41
Hitachi	31, 79, 80
Jerrold	1, 2, 3, 4, 31, 34, 55, 85, 91
Macom	31, 79, 80
Magnavox	13, 20, 21, 22, 23, 24, 25, 26, 58, 62, 84
Movietime	29, 32, 38, 39, 42, 44, 88
NSC	29, 32, 38, 39, 42, 44, 88
OAK	10, 11, 12, 13, 46
OAK Sigma	10, 11, 12, 13, 46
Panasonic	6, 8, 16, 17
Philips	4, 13, 20, 21, 22, 23, 24, 25, 26, 58, 62, 84
Pioneer	5, 6, 78
Pulsar	30, 42, 44, 52, 63, 88
Randtek	13, 20, 21, 22, 23, 24, 25, 26, 58, 62, 84
RCA	6, 8, 16, 17
Realistic	44, 88
Regal	14, 23, 41, 84
Regency	26, 28
Rembrandt	29, 32, 38, 39, 42, 44, 88
Samsung	4, 6, 32, 42, 78
Scientific Atlanta	8, 9, 56, 61
Sheritech	27
SL Mark	4, 6, 32, 42, 78
Sprucher	6, 8, 16, 17

Brand name of your Cable box	Brand Code
Stargate	4, 6, 30, 32, 42, 44, 52, 63, 78, 88
Sylvania	19
Teknika	74
Telecaption	77
Teleview	4, 6, 32, 42, 78
Texscan	18, 19
Tocom	1, 33, 34, 42, 48, 49, 73, 91
Unika	1, 20, 21, 29, 42, 44, 63, 88, 91
Universal	29, 42, 43, 44, 52, 63, 82, 88
Videoway	7, 23, 45, 50, 84
Viewstar	13, 20, 21, 22, 23, 24, 25, 26, 58, 62, 84
Warner Amex	6
Zenith	7, 23, 45, 50, 84

Table of DSS® Satellite Receiver Brand Codes

Brand name of your DSS® satellite receiver	Brand Code
TOSHIBA	99
RCA	98
SONY	97
PANASONIC	90
MAGNAVOX	95, 96
DRAKER	94
PRIMESTAR	93
HITACHI	92, 89

REFERENCE

Troubleshooting

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

Symptom	Cause	Correction
No power.	• The power cord is disconnected.	• Plug the power cord into the wall outlet securely.
The power is on, but the DVD+VCR does not work.	• No disc is inserted. • No tape is inserted.	• Insert a disc or tape. (Check that the disc or tape indicator in the display window is lit.)
No picture.	• The TV is not set to receive DVD+VCR signal output.	• Select the appropriate video input mode on the TV so the picture from the DVD+VCR appears on the TV screen.
	• TV/VCR mode for DVD+VCR is set to TV.	• Press the TV/VCR button on the remote control repeatedly to choose VCR mode. TV indicator disappears in the display window.
	• The video cable is not connected securely.	• Connect the video cable securely.
	• The connected TV power is turned off.	• Turn on the TV.
No sound.	• The equipment connected with the audio cable is not set to receive DVD+VCR signal output.	• Select the correct input mode of the audio receiver so you can listen to the sound from the DVD+VCR.
	• The audio cables are not connected securely.	• Connect the audio cable securely.
	• The power of the equipment connected with the audio cable is turned off.	• Turn on the equipment connected with the audio cable.
	• The Digital Audio Output is set to the wrong position.	• Set the Digital Audio Output to the correct position, then turn on the DVD+VCR again by pressing POWER.
The playback picture is poor.	• The disc is dirty.	• Clean the disc.
	• Tape heads are dirty.	• Clean video heads.
	• Tape is a rental or was recorded on another VCR.	• Use CH/TRK (+/-) for manual tracking adjustment while tape is playing.
The DVD+VCR does not start playback.	• No disc is inserted. • No tape is inserted.	• Insert a disc or tape. (Check that the disc or tape indicator in the display window is lit.)
	• An unplayable disc is inserted.	• Insert a playable disc. (Check the disc type, color system, and Regional code.)
	• The disc is placed upside down.	• Place the disc with the playback side down.
	• The disc is not placed within the guide.	• Place the disc on the disc tray correctly inside the guide.
	• The disc is dirty.	• Clean the disc.
	• The Rating level is set.	• Cancel the Rating function or change the rating level.
The remote control does not work properly.	• The remote control is not pointed at the remote sensor of the DVD+VCR.	• Point the remote control at the remote sensor of the DVD+VCR.
	• The remote control is too far from the DVD+VCR.	• Operate the remote control within 23 ft (7 m).
	• There is an obstacle in the path of the remote control and the DVD+VCR.	• Remove the obstacle.
	• The batteries in the remote control are exhausted.	• Replace the batteries with new ones.
	• This remote control use the same buttons for VCR and DVD functions (ex. PLAY).	• When using a VCR, first press the VCR button. When using a DVD, first press the DVD button.

Symptom	Cause	Correction
Some channels are skipped over when using CH/TRK (+/-)	• Those channels were deleted with the CH. ADD/DEL option.	• Use CH. ADD/DEL. to restore channels. See "Channel Selection" on page 15.
Picture and sound of broadcasting channel are weak or missing.	• Antenna or cables are loose.	• Tighten connections or replace cable.
	• Wrong TUNING BAND option is being used.	• Try all TUNING BAND options. See "Channel Selection" on page 15 for details.
Camcorder image is not shown.	• Camcorder is off.	• Turn camcorder on and operate properly.
Camcorder image via A/V input to DVD+VCR is not shown on TV screen.	• DVD+VCR SOURCE SELECT is not set to LINE1 or LINE2.	• Press INPUT SELECT to select LINE input channel (LINE1 or LINE2).
Timer recording is not possible.	• Clock in DVD+VCR is not set to correct time.	• Set clock to correct time. See "Setting the Clock" on page 16.
	• Timer has been programmed incorrectly.	• Reprogram Timer. See "Timer Recording" on page 23.
	• TIMER indicator does not appear after programming timer.	• Reprogram Timer
TIMER indicator appears after DVD+VCR is turned off.	• DVD+VCR is in Timer Recording mode.	• This is the normal indication that the DVD+VCR is in TIMER mode.
Stereo Audio Record and/or Playback is not present.	• TV is not Stereo-compatible.	• No action is possible.
	• Broadcast program is not in stereo format.	• No action is possible.
	• DVD+VCR A/V Out jacks are not connected to TV A/V In jacks.	• Make A/V connections. Stereo is available only via A/V output from DVD+VCR.
	• DVD+VCR Audio/Video Out is not selected for viewing at the TV.	• Select AUX or A/V source as TV input.
	• DVD+VCR BROADCAST TYPE mode is set to SAP or MONO.	• Set BROADCAST TYPE mode to STEREO. See "Setting the VCR Setup Menu" on page 15.

REFERENCE

41

Language Code List

Enter the appropriate code number for the initial settings "Disc Audio", "Disc Subtitle" and/or "Disc Menu"
(See page 18).

Code	Language	Code	Language	Code	Language	Code	Language
6566	Abkhazian	7074	Fiji	7678	Lingala	8373	Singhalese
6565	Afar	7073	Finnish	7684	Lithuanian	8375	Slovak
6570	Afrikaans	7082	French	7775	Macedonian	8376	Slovenian
8381	Albanian	7089	Frisian	7771	Malagasy	8379	Somali
6577	Amharic	7176	Galician	7783	Malay	6983	Spanish
6582	Arabic	7565	Georgian	7776	Malayalam	8385	Sudanese
7289	Armenian	6869	German	7784	Maltese	8387	Swahili
6583	Assamese	6976	Greek	7773	Maori	8386	Swedish
6588	Aymara	7576	Greenlandic	7782	Marathi	8476	Tagalog
6590	Azerbaijani	7178	Guarani	7779	Moldavian	8471	Tajik
6665	Bashkir	7185	Gujarati	7778	Mongolian	8465	Tamil
6985	Basque	7265	Hausa	7865	Nauru	8484	Tatar
6678	Bengali; Bangla	7387	Hebrew	7869	Nepali	8469	Telugu
6890	Bhutani	7273	Hindi	7879	Norwegian	8472	Thai
6672	Bihari	7285	Hungarian	7982	Oriya	6679	Tibetan
6682	Breton	7383	Icelandic	8065	Panjabi	8473	Tigrinya
6671	Bulgarian	7378	Indonesian	8083	Pashto, Pushto	8479	Tonga
7789	Burmese	7365	Interlingua	7065	Persian	8482	Turkish
6669	Byelorussian	7165	Irish	8076	Polish	8475	Turkmen
7577	Cambodian	7384	Italian	8084	Portuguese	8487	Twi
6765	Catalan	7465	Japanese	8185	Quechua	8575	Ukrainian
9072	Chinese	7487	Javanese	8277	Rhaeto-Romance	8582	Urdu
6779	Corsican	7578	Kannada	8279	Romanian	8590	Uzbek
7282	Croatian	7583	Kashmiri	8285	Russian	8673	Vietnamese
6783	Czech	7575	Kazakh	8377	Samoan	8679	Volapük
6865	Danish	7589	Kirghiz	8365	Sanskrit	6789	Welsh
7876	Dutch	7579	Korean	7168	Scots Gaelic	8779	Wolof
6978	English	7585	Kurdish	8382	Serbian	8872	Xhosa
6979	Esperanto	7679	Laothian	8372	Serbo-Croatian	7473	Yiddish
6984	Estonian	7665	Latin	8378	Shona	8979	Yoruba
7079	Faeroese	7686	Latvian, Lettish	8368	Sindhi	9085	Zulu

42

Country/Area Code List

Enter the appropriate code number for the initial setting "Area Code" (See page 20).

REFERENCE

Code	Country/Area	Code	Country/Area	Code	Country/Area	Code	Country/Area
AD	Andorra	ER	Eritrea	LC	Saint Lucia	SC	Seychelles
AE	United Arab Emirates	ES	Spain	LI	Liechtenstein	SD	Sudan
AF	Afghanistan	ET	Ethiopia	LK	Sri Lanka	SE	Sweden
AG	Antigua and Barbuda	FI	Finland	LR	Liberia	SG	Singapore
AI	Anguilla	FJ	Fiji	LS	Lesotho	SH	Saint Helena
AL	Albania	FK	Falkland Islands	LT	Lithuania	SI	Slovenia
AM	Armenia	FM	Micronesia	LU	Luxembourg	SJ	Svalbard and Jan Mayen Islands
AN	Netherlands Antilles	FO	Faroe Islands	LV	Latvia		
AO	Angola	FR	France	LY	Libya	SK	Slovak Republic
AQ	Antarctica	FX	France (European Territory)	MA	Morocco	SL	Sierra Leone
AR	Argentina			MC	Monaco	SM	San Marino
AS	American Samoa	GA	Gabon	MD	Moldavia	SN	Senegal
AT	Austria	GB	Great Britain	MG	Madagascar	SO	Somalia
AU	Australia	GD	Grenada	MH	Marshall Islands	SR	Suriname
AW	Aruba	GE	Georgia	MK	Macedonia	ST	Saint Tome and Principe
AZ	Azerbaidjan	GF	French Guyana	ML	Mali	SU	Former USSR
BA	Bosnia-Herzegovina	GH	Ghana	MM	Myanmar	SV	El Salvador
BB	Barbados	GI	Gibraltar	MN	Mongolia	SY	Syria
BD	Bangladesh	GL	Greenland	MO	Macau	SZ	Swaziland
BE	Belgium	GM	Gambia	MP	Northern Mariana Islands	TC	Turks and Caicos Islands
BF	Burkina Faso	GN	Guinea	MQ	Martinique (French)	TD	Chad
BG	Bulgaria	GP	Guadeloupe (French)	MR	Mauritania	TF	French Southern Territories
BH	Bahrain	GQ	Equatorial Guinea	MS	Montserrat		
BI	Burundi	GR	Greece	MT	Malta	TG	Togo
BJ	Benin	GS	S. Georgia & S. Sandwich Isls.	MU	Mauritius	TH	Thailand
BM	Bermuda			MV	Maldives	TJ	Tadjikistan
BN	Brunei Darussalam	GT	Guatemala	MW	Malawi	TK	Tokelau
BO	Bolivia	GU	Guam (USA)	MX	Mexico	TM	Turkmenistan
BR	Brazil	GW	Guinea Bissau	MY	Malaysia	TN	Tunisia
BS	Bahamas	GY	Guyana	MZ	Mozambique	TO	Tonga
BT	Bhutan	HK	Hong Kong	NA	Namibia	TP	East Timor
BV	Bouvet Island	HM	Heard and McDonald Islands	NC	New Caledonia (French)	TR	Turkey
BW	Botswana			NE	Niger	TT	Trinidad and Tobago
BY	Belarus	HN	Honduras	NF	Norfolk Island	TV	Tuvalu
BZ	Belize	HR	Croatia	NG	Nigeria	TW	Taiwan
CA	Canada	HT	Haiti	NI	Nicaragua	TZ	Tanzania
CC	Cocos (Keeling) Islands	HU	Hungary	NL	Netherlands	UA	Ukraine
CF	Central African Republic	ID	Indonesia	NO	Norway	UG	Uganda
CG	Congo	IE	Ireland	NP	Nepal	UK	United Kingdom
CH	Switzerland	IL	Israel	NR	Nauru	UM	USA Minor Outlying Islands
CI	Ivory Coast	IN	India	NU	Niue		
CK	Cook Islands	IO	British Indian Ocean Territory	NZ	New Zealand	US	United States
CL	Chile			OM	Oman	UY	Uruguay
CM	Cameroon	IQ	Iraq	PA	Panama	UZ	Uzbekistan
CN	China	IR	Iran	PE	Peru	VA	Vatican City State
CO	Colombia	IS	Iceland	PF	Polynesia (French)	VC	Saint Vincent & Grenadines
CR	Costa Rica	IT	Italy	PG	Papua New Guinea		
CS	Former Czechoslovakia	JM	Jamaica	PH	Philippines	VE	Venezuela
CU	Cuba	JO	Jordan	PK	Pakistan	VG	Virgin Islands (British)
CV	Cape Verde	JP	Japan	PL	Poland	VI	Virgin Islands (USA)
CX	Christmas Island	KE	Kenya	PM	Saint Pierre and Miquelon	VN	Vietnam
CY	Cyprus	KG	Kyrgyzstan	PN	Pitcairn Island	VU	Vanuatu
CZ	Czech Republic	KH	Cambodia6	PR	Puerto Rico	WF	Wallis and Futuna Islands
DE	Germany	KI	Kiribati	PT	Portugal	WS	Samoa
DJ	Djibouti	KM	Comoros	PW	Palau	YE	Yemen
DK	Denmark	KN	Saint Kitts & Nevis Anguilla	PY	Paraguay	YT	Mayotte
DM	Dominica	KP	North Korea	QA	Qatar	YU	Yugoslavia
DO	Dominican Republic	KR	South Korea	RE	Reunion (French)	ZA	South Africa
DZ	Algeria	KW	Kuwait	RO	Romania	ZM	Zambia
EC	Ecuador	KY	Cayman Islands	RU	Russian Federation	ZR	Zaire
EE	Estonia	KZ	Kazakhstan	RW	Rwanda	ZW	Zimbabwe
EG	Egypt	LA	Laos	SA	Saudi Arabia		
EH	Western Sahara	LB	Lebanon	SB	Solomon Islands		

43

Specifications

General

Power requirements	AC 120V , 60 Hz
Power consumption	19W
Dimensions (approx.)	430 X 78.5 X 275 mm (16.9 X 3.1 X 10.8 inches) (w x h x d)
Mass (approx.)	8.8 lbs (4.0 kg)
Operating temperature	5˚C to 40˚C (41˚F to 104˚F)
Operating humidity	5 % to 90 %
Signal system	NTSC

Inputs

ANTENNA IN	75 ohms (VHF/UHF/CATV)
VHS VIDEO IN (LINE1, 2)	1 Vp-p 75 ohms, sync negative, RCA jack x 2
VHS AUDIO IN (LINE1, 2)	-6.0 dBm more than 47 kohms, RCA jack (L, R) x 2

Outputs

VIDEO OUT	1 Vp-p 75 ohms, sync negative
S-VIDEO OUT	(Y) 1.0 V (p-p), 75 ohms, negative sync, Mini DIN 4-pin x 1
	(C) 0.286 V (p-p) 75 ohms
COMPONENT VIDEO OUT	(Y) 1.0 V (p-p), 75 ohms, negative sync, RCA jack x 1
(Progressive Scan)	(Pb)/(Pr) 0.7 V (p-p), 75 ohms, RCA jack x 2
Audio output (digital audio)	0.5 V (p-p), 75 ohms, RCA jack x 1
Audio output (optical audio)	5 V (p-p), 75 Ω, Optical connector x 1
Audio output (analog audio)	2.0 Vrms (1 KHz, 0 dB), 330 ohms, RCA jack (L, R) x 1
RF OUT	Channel 3 or 4 (Switchable)

VCR Specifications

Head system	Four head helical scan azimuth system
Timer	12-hour display type with AM, PM
Tape speed	SP: 33.35 mm/sec, LP: 16.67 mm/sec, SLP: 11.12 mm/sec
Tape width	12.7 mm
Maximum recording time	SP: 2 HOURS (T-120), SLP: 6 HOURS (T-120)/8 HOURS (T-160)
Rewind time	About 3 minutes (T-120)
Antenna	75 ohms (VHF/UHF)
VHF output signal	Channel 3 or 4 (Switchable)
Channel coverage	VHF: 2-13, UHF: 14-69, CATV: 1-125 (4A, A-W, W+1 - W+84, A-5 - A-1)
Frequency range	20Hz to 20kHz
Signal-to-noise ratio	More than 43dB
Dynamic range	More than 88 dB
Channel separation	More than 60 dB

DVD Specifications

Laser system	Semiconductor laser, wavelength 650 nm
Frequency response	DVD (PCM 96 kHz): 8 Hz to 44 kHz, DVD (PCM 48 kHz): 8 Hz to 22 kHz
	CD: 8 Hz to 20 kHz
Signal-to-noise ratio	More than 100dB (ANALOG OUT jacks only)
Harmonic distortion	Less than 0.008%
Dynamic range	More than 95 dB (DVD/CD)

Accessories:

Video cable x 1, Audio cable x 1, RF 75-ohm Coaxial Cable x 1, Remote control x 1, Batteries(AAA) x 2

● Design and specifications are subject to change without notice.

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

DTS and DTS Digital Out are trademarks of Digital Theater Systems, Inc.

Limited United States Warranty
DVD/VCR COMBINATION - Exchange Warranty

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers in the United States. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS DVD/VCR COMBINATION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE

PRODUCTS PURCHASED IN THE U.S.A. AND USED IN CANADA ARE NOT COVERED BY THESE WARRANTIES

PRODUCTS PURCHASED IN CANADA AND USED IN THE U.S.A. ARE NOT COVERED BY THESE WARRANTIES.

Limited Ninety (90) Day Warranty

TACP warrant this DVD/VCR COMBINATION and its parts against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. DURING THE FIRST 90 DAYS FROM THE PURCHASE DATE, TACP WILL EXCHANGE A DEFECTIVE DVD/VCR COMBINATION WITH A NEW OR REFURBISHED PLAYER WITHOUT CHARGE TO YOU. YOU MUST CONTACT TOSHIBA'S CONSUMER SOLUTIONS CENTER FOR INSTRUCTIONS ON HOW TO PROCESS YOUR IN WARRANTY EXCHANGE REQUEST. THE CONSUMER IS RESPONSIBLE FOR ALL INBOUND TRANSPORTATION AND INSURANCE CHARGES FOR THE DVD/VCR COMBINATION TO THE EXCHANGE CENTER. DURING THE PERIOD FROM 91 DAYS AND BEYOND, FROM THE PURCHASE DATE, TACP WILL EXCHANGE A DEFECTIVE DVD/VCR COMBINATION WITH A NEW OR REFURBISHED PLAYER FOR A NOMINAL FEE. YOU MUST CONTACT TOSHIBA'S CONSUMER SOLUTIONS CENTER FOR INSTRUCTIONS ON HOW TO PROCESS YOUR EXCHANGE REQUEST. THE CONSUMER IS RESPONSIBLE FOR ALL INBOUND TRANSPORTATION AND INSURANCE CHARGES FOR THE DVD/VCR COMBINATION TO THE EXCHANGE CENTER.

*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

DVD/VCR COMBINATIONs sold and used for commercial purposes have a limited ninety (90) day warranty for all parts, labor.

Owner's Manual and Demographic Card

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

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

(1) You must provide your bill of sale or other proof of purchase.
(2) All warranty servicing of this DVD/VCR COMBINATION must be made by an Authorized TACP Service Station.
(3) The warranties from TACP are effective only if the DVD/VCR COMBINATION is purchased and operated in the U.S.A. or Puerto Rico.
(4) 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.
(5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any DVD/VCR COMBINATION or parts which have been lost or discarded by you or to damage to DVD/VCR COMBINATION or parts caused by misuse, accident, Acts of God, such as lightning or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by TACP; or to units which have been modified or had the serial number removed, altered, defaced or rendered illegible.

How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the section "Troubleshooting", you find that service is needed:

(1) For instructions on how to obtain warranty service for exchange program DVD/VCR COMBINATIONs, contact TACP'S toll free Call Center at 1-866-583-7353.

(2) Include your bill of sale or other proof of purchase along with the DVD/VCR COMBINATION, when sending it to the Authorized TACP Service Station SPECIFIED by transportation and insurance charges for the DVD Product to and from the Service Station.

For additional information, visit TACP's web site: www.tacp.toshiba.com

ALL WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A., INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WAR-RANTIES SET FORTH ABOVE. WITH THE EXCEP-TION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A. AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARAN-TEES, AGREEMENTS AND SIMILAR OBLIGATIONS OF TACP OR THI WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TACP 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 action must be commenced to enforce any obligation of TACP arising under this warranty or under any law of the United States or of any state thereof is hereby limited to 90 days from the date you discovered or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any state of the U.S.A.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS 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 AFOREMENTIONED LIMITATIONS OR EXCLU-SIONS MAY NOT APPLY TO YOU UNDER SUCH CIR-CUMSTANCES.

TOSHIBA

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com