TOSHIBA

DVD VIDEO PLAYER / VIDEO CASSETTE RECORDER
SDV398KC

OWNER’S MANUAL

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Owner’s Record
The model number and serial number are on the back of this unit. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this unit.

Model number: 
Serial number: 

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PRECAUTIONS

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

**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.

The caution marking is located on the rear of the cabinet.

**Laser Safety**

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

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

**CAUTION:** VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFECTED. DO NOT STARE INTO BEAM.

**LOCATION:** INSIDE, NEAR THE DECK MECHANISM.

This Class B digital apparatus complies with Canadian ICES-003.

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

**A NOTE ABOUT RECYCLING**

This product’s packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations. Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

**Make your contribution to the environment!!!**

- Used up batteries do not belong in the dust bin.
- You can dispose of them at a collection point for used up batteries or special waste.

Contact your council for details.
IMPORTANT SAFETY INSTRUCTIONS

This unit 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 is fully transistorized and 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 these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A 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 third 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.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. 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.
13. Unplug this apparatus and disconnect the antenna or cable system during lightning storms or when unused for long periods of time.
14. 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 normally, or has been dropped.
15. Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
16. Never expose the apparatus to dripping or splashing or place items such as vases, aquariums, any other item filled with liquid, or candles on top of the unit.
17. Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.
18. Do not place anything on top of this unit.
19. Do not place the apparatus on amplifiers or equipment that may produce heat.
20. Never block or cover the slots or openings in the unit. Never place the unit: • on a bed, sofa, rug, or similar surface; • too close to drapes, curtains, or walls; or • in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation. The slots and openings are provided to protect the unit from overheating and to help maintain reliable operation.
21. Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and apparatus malfunction.
22. If the apparatus should emit smoke or an unusual odor, immediately disconnect the power cord from the wall outlet. Wait until the smoke or smell stops, then ask your dealer for a check and repair. Neglecting to do so may cause fire.
23. During thunderstorms, do not touch the connecting cables or the apparatus.
24. DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!
• Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines or other electrical circuits.
• Never attempt to install any of the following during lightning activity: a) an antenna system; or b) cables, wires, or any home theater component connected to an antenna or phone system.
25. Always make sure the antenna system is properly grounded to provide adequate protection against voltage surges and built-up static charges (see Section 810 of the National Electric Code).
Symbols Used in this Manual

The following symbols appear in some headings in this manual.

- Description refers to video cassette tapes.
- Description refers to playback of DVD-Video.
- Description refers to playback of Audio CDs.
- Description refers to playback of MP3 files.
- Description refers to playback of discs formatted with WMA.
- Description refers to playback of JPEG files.

Installation Location

For safety and optimum performance of this unit:

- Install the unit in a horizontal and stable position. Do not place anything directly on top of the unit. Do not place the unit directly on the TV.
- Shield it from direct sunlight and keep it away from devices of intense heat. Avoid dusty or humid places. Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes on the sides of the unit. Avoid locations subject to strong vibration or strong magnetic fields.

Avoid the Hazards of Electrical Shock and Fire

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from AC outlet. Grasp it by the plug.
- If, by accident, water is spilled on this unit, unplug the power cord immediately and take the unit to our Authorized Service Center for servicing.

Moisture Condensation Warning

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place or after heating a cold room or under conditions of high humidity. Do not use this unit at least for 2 hours until its inside gets dry.

About Copyright

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs and other materials, is prohibited under the copyright laws of the United States and other countries, and may subject you to civil and/or criminal liability. This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Notice for Progressive Scan Output

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of picture problems with 480 progressive scan output, it is recommended that the user switch the connection to the "standard definition" output. If there are questions regarding your TV set compatibility with this 480p DVD recorder, please contact Toshiba Customer Service.

Auto Power Off and Screen Saver Function (DVD Only)

If the player is left with no activity for more than 5 minutes, the screen saver will be activated, and if it is left for another 25 minutes, the unit switches from DVD to VCR mode automatically.

Supplied Accessories

Remote control with two AA batteries
RF cable
Owner's Manual
RCA Audio/Video cables
Return Stop Sheet
Quick Start Guide

“WMA” (Windows Media Audio) is a new audio codec developed by Microsoft® in the United States of America.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Manufactured under license under U.S. Patent #: 5,451,942 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Out are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc. ©1996-2008 DTS, Inc. All Rights Reserved.
Precautions

2. If a video head cleaner does not solve the problem, please visit your local audio/video store and purchase a cleaning disc.

1. Please refer to relevant topics on the “Troubleshooting” section on page 31 before returning the unit.

If this unit becomes inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power plug, and please call our help line to locate an Authorized Service Center.

Cleaning the Cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia, or abrasive.

Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center to out. Do not wipe in a circular motion.
- Do not use solvents such as benzine, thinner, commercially available cleaners, detergent, abrasive cleaning agents, or antistatic spray intended for analog records.

Cleaning the Disc Lens

- If this unit still does not perform properly although you refer to the relevant sections and to “Troubleshooting” in this Owner’s Manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

Disc Handling

- When you handle a disc hold it by its edge and try not to touch the surface of the disc.
- Always store a disc in its protective case when it is not in use.

Auto Head Cleaning

- Automatically cleans video heads as you insert or remove a cassette tape, so you can see a clear picture.
- Playback picture may become blurred or interrupted while the TV program reception is clear. Dirt accumulated on the video heads after a long period of use, or the usage of rental or worn cassette tapes can cause this problem. If a streaky or snowy picture appears during playback, the video heads in your unit may need to be cleaned.

1. Please visit your local audio/video store and purchase a quality VHS video head cleaner.
2. If a video head cleaner does not solve the problem, please consult your dealer or an Authorized Service Center.

Note:
- Remember to read the instructions along with the video head cleaner before use.
- Clean video heads only when problems occur.

Note to CATV System Installer:
- This reminder is provided to call the cable TV system installer’s attention to Article 820-40 of the National Electrical Code, which provides guidelines for proper grounding - in particular, specifying that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.
**SETUP**

**Choosing a Disc / Cassette Tape**

### Playable Media

<table>
<thead>
<tr>
<th>Type of media</th>
<th>Mark (logo)</th>
<th>Region code</th>
<th>Recorded signals</th>
<th>Media size</th>
<th>Tape speed and disc types</th>
</tr>
</thead>
<tbody>
<tr>
<td>cassette tape</td>
<td>VHS</td>
<td>—</td>
<td>analog video</td>
<td>tape width 1/2 inches (12.65mm)</td>
<td>SP: 1-5/16 inch/sec. (33.40 mm/sec.) SLP: 7/16 inch/sec. (11.12 mm/sec.)</td>
</tr>
<tr>
<td>DVD-video</td>
<td>*1, 2, 3, 5, 8</td>
<td>—</td>
<td>digital video (MPEG2)</td>
<td>5 inches (12 cm) or 3 inches (8 cm)</td>
<td></td>
</tr>
<tr>
<td>DVD-RW/DVD-R</td>
<td>*1, 3, 4, 5, 6, 7, 8, 9</td>
<td>—</td>
<td>digital audio or MP3 / WMA*10 JPEG</td>
<td>5 inches (12 cm) or 3 inches (8 cm)</td>
<td></td>
</tr>
<tr>
<td>Audio CD</td>
<td>*3, 5, 8</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>CD-RW/CD-R</td>
<td>*3, 4, 5, 7, 8</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

*DVD* is a trademark of DVD Format/Logo Licensing Corporation.

**Unplayable Media**

**NEVER play the following discs as malfunction may result!**

- DVD-RAM, DVD-audio, CD-i, photo CD, DVD with region codes other than 1 or ALL, DVD-ROM for personal computers, CD-ROM for personal computers, DVD-RW/-R in VR mode, HD DVD, Blu-ray Disc

**On the following disc, the sound MAY NOT be heard.**

- super audio CD

**Note:**

- Only the sound recorded on the normal CD layer can be delivered. The sound recorded on the high density super audio CD layer cannot be delivered.

**Any other discs without compatibility indications**
**Index to Parts and Controls**

### Front Panel

1. **I/Y ON/STANDBY button**
   - Press to turn on and off the unit.

2. **POWER ON indicator**
   - This indicator will light up when the power is on and turn off when the power is off.

3. **REW (REW) button (VCR only)**
   - Press to rewind the cassette tape, or to view the picture rapidly in reverse during playback (rewind search).

4. **FWD (FWD) button (VCR only)**
   - Press to rapidly advance the cassette tape, or to view the picture rapidly in forward during playback (forward search).

5. **STOP/EJECT (STOP/EJECT) button (VCR only)**
   - **STOP button**
     - Press to stop cassette tape playback or recording.
   - **EJECT button**
     - When the unit is in stop mode, press to remove the cassette tape from the cassette compartment.

6. **PLAY (PLAY) button (VCR only)**
   - Press to start playback.

7. **REC button (VCR only)**
   - Press once to start a recording. Press repeatedly to start the one-touch timer recording.

8. **Cassette compartment (VCR only)**
   - Insert a cassette tape here.

9. **OPEN/CLOSE button (DVD only)*
   - Press to open or close the disc tray.

10. **Disc tray (DVD only)**
    - Place a disc when it is open.

11. **PLAY (PLAY) button (DVD only)**
    - Press to start or resume playback.

### Rear Panel

1. **AC Power Cord**
   - Connect to a standard AC outlet to supply power to this unit.

2. **COAXIAL DIGITAL AUDIO OUT jack (DVD only)**
   - Use to connect an AV receiver, Dolby Digital decoder or other device with a coaxial digital input jack with a digital coaxial cable.

3. **AUDIO OUT jacks (DVD only)**
   - Use to connect a TV monitor, Dolby Digital decoder or other device with an RCA audio cable.

4. **VIDEO OUT jack**
   - Use to connect a TV monitor, AV receiver or other device with an RCA video cable.

5. **VIDEO IN jack (L1) (VCR only)**
   - Use to connect external device with an RCA video cable.

6. **AUDIO IN jacks (L1) (VCR only)**
   - Use to connect external device with an RCA audio cable.

7. **VIDEO OUT jack**
   - Use to connect a TV monitor, AV receiver or other device with an RCA video cable.

8. **VIDEO IN jack (L1) (VCR only)**
   - Use to connect external device with an RCA video cable.

9. **AUDIO IN jacks (L1) (VCR only)**
   - Use to connect external device with an RCA audio cable.

10. **ANT-IN jack**
    - Connect your antenna or cable box here.

11. **ANT-OUT jack**
    - Connect the supplied RF cable to the antenna input jack on your TV.

**Note:**
- Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.
Remote Control

Installing the Batteries for the Remote Control

Install two AA batteries (supplied) matching the polarity indicated inside battery compartment of the remote control.

2. Press and hold [OPEN/CLOSE A].
3. Insert two AA batteries (supplied) matching the polarity indicated inside battery compartment. 

Keep in mind the following when using the remote control:
- Make sure that there are no obstacles between the remote control and the infrared sensor window on the unit.
- The maximum operable ranges from the unit are as follows.
  - Line of sight: approx. 23 feet (7m)
  - Either side of center: approx. 23 feet (7m) within 30°

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Note:
- Do not mix alkaline and manganese batteries.
- Do not mix old and new batteries.
- Always remove batteries from remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.
- If you turn off this unit, press [STOP/EJECT] on the remote control.

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* EN
**DVD Display Panel**

- Appears when the inserted disc is being played back.
- Displays how long the current title or track has been played back. When a chapter or track is switched, the number of a new title, chapter or track is displayed.
- Appears when the A-B repeat function is on.
- Appears when the repeat function is on.
- Appears when the progressive scan system is activated.
- Appears when the ALL repeat function is on.
- Appears when the inserted disc comes to a pause.
- Appears when the inserted disc is being played back.

**VCR Display Panel**

- Indicates a cassette tape is in the unit.
- Appears when an OTR or timer recording has been set.
- Appears during recording; flashes when recording is paused.
- Indicates current time is PM. There is no AM indication.
- Displays the elapsed playing time of a tape; also displays a selected channel, input mode, tape speed, remaining time for an OTR or the current time.

**Selecting DVD or VCR Operation**

You must first select either DVD or VCR operation.

**VCR MODE**

Press [VCR] on the remote control. (Verify that the VCR indicator is lit.)

**DVD MODE**

Press [DVD] on the remote control. (Verify that the DVD indicator is lit.)
Connections

Read this first:
1) Disconnect the AC power cords of the devices from the AC outlet.
2) Make the connection as illustrated below.
3) After making all the connections, connect the AC power cords of the devices.

• Connect this unit directly to the TV. If the RCA audio/video cables are connected to a VCR, pictures may be distorted due to the copy protection system.

Antenna Connection (Required)

Connection to a TV

If your TV does not have AUDIO/VIDEO input jack, see the section “Connection to RF Modulator (Not Supplied)” on page 12.

VCR and Basic DVD Connection

<table>
<thead>
<tr>
<th>TV</th>
<th>This unit</th>
</tr>
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<tr>
<td>analog audio</td>
<td>RCA audio cable</td>
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<tr>
<td>standard picture</td>
<td>RCA video cable</td>
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</tr>
</thead>
<tbody>
<tr>
<td>good picture</td>
</tr>
<tr>
<td>better picture</td>
</tr>
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</table>

Supplied cables used in this connection are as follows:
• RCA audio cable (L/R) x 1
• RCA video cable x 1
Please purchase the rest of the necessary cables at your local store.

Note:
• DIGITAL AUDIO OUT (COAXIAL), DVD AUDIO OUT, S-VIDEO OUT and COMPONENT VIDEO OUT jacks are only useful in DVD mode.

After connecting to your TV:
Press the input selector button (usually TV/VIDEO, INPUT or AUX) on your TV to switch an appropriate external input channel (usually near channel 0) for viewing the picture from this unit. If the picture does not appear, also refer to the manual accompanying your TV.

If your TV is compatible with 525 (480) progressive scanning, and you want to enjoy that high quality picture for DVD playing:
You must select the connection COMPONENT VIDEO OUT above and progressive scanning mode. To set the mode, set “PROGRESSIVE” to “ON” in “DISPLAY” menu, so that the “P. SCAN” on the front panel display appears. Refer to pages 27-28 for more details.

If your TV is not compatible with progressive scanning:
Use this unit in interlace mode and set “PROGRESSIVE” to “OFF” either in “DISPLAY” menu or by pressing and holding [[strlen]|(PLAY)] on the front of the unit on the DVD side for more than 5 seconds, so that the “P. SCAN” on the front panel display disappears.

Supplied cables used in this connection are as follows:
• RF coaxial cable x 1
Please purchase the rest of the necessary cables at your local store.

Connections

Antenna Connection (Required)

Connection to a TV

If your TV does not have AUDIO/VIDEO input jack, see the section “Connection to RF Modulator (Not Supplied)” on page 12.

VCR and Basic DVD Connection

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Supplied cables used in this connection are as follows:
• RCA audio cable (L/R) x 1
• RCA video cable x 1
Please purchase the rest of the necessary cables at your local store.

Note:
• DIGITAL AUDIO OUT (COAXIAL), DVD AUDIO OUT, S-VIDEO OUT and COMPONENT VIDEO OUT jacks are only useful in DVD mode.

After connecting to your TV:
Press the input selector button (usually TV/VIDEO, INPUT or AUX) on your TV to switch an appropriate external input channel (usually near channel 0) for viewing the picture from this unit. If the picture does not appear, also refer to the manual accompanying your TV.
Connection to an Audio System

If using this DVD player to play back a DVD in a Dolby Digital Multi-channel surround or DTS surround format, the DVD player outputs a Dolby Digital or DTS data stream from its COAXIAL DIGITAL AUDIO OUT jack.

By hooking up the player to a Dolby Digital or DTS decoder, you can enjoy more convincing, realistic ambience with powerful and high-quality surrounding sound of a professional standard which can be heard in movie theaters.

Use a commercially available digital audio coaxial cable for the audio connections.

**Method 1** DVD Player + Stereo system
**Method 2** DVD Player + AV amplifier with a built in decoder (AV control center), Dolby Digital decoder, DTS decoder, MD deck or DAT deck

Supplied cables used in this connection are as follows:
- RCA audio cable (L/R) x 1
Please purchase the rest of the necessary cables at your local store.

**Note:**
- Be sure to turn off the power of all components in the system before connecting another component.
- Refer to the Instruction Manuals for your TV, stereo system and any other components to be connected to the DVD player.

**Supplied cables used in this connection are as follows:**
- RCA audio cable (L/R) x 1
Please purchase the rest of the necessary cables at your local store.

**Note (for method 2 only):**
- When using an AV amplifier with a built in decoder (AV control center), Dolby Digital, or DTS decoder as shown in the Method 2, set "DOLBY DIGITAL" or "DTS" to "BITSTREAM" accordingly for audio output in the setup mode (refer to pages 27-28). Set it to "PCM" or "OFF" for the decoder that is not used currently. Playing back a DVD using incorrect settings may generate noise distortion, and may also damage the speakers.
- The audio source on a disc in a Dolby Digital Multi-channel surround format cannot be recorded as digital sound by an MD deck or DAT deck.
- Set "DOLBY DIGITAL" to "PCM" and "DTS" to "OFF" for audio output in the setup mode for connecting to an MD deck or DAT deck (refer to pages 27-28).
- Harsh noise that could harm your ears or the speakers is generated when a DVD recorded in DTS is played while using a decoder, etc., that is not DTS-compatible.
- When playing a copyright-protected 96kHz PCM DVD, the digital sound will be down sampled at 48kHz, even if you set "DOWN SAMPLING" to "OFF" (refer to pages 27-28).
Connecting to a Cable / Satellite Box

Supplied cables used in this connection are as follows:
- RF coaxial cable x 1
- RCA audio cable (L/R) x 1
- RCA video cable x 1
Please purchase the rest of the necessary cables at your local store.

Note:
- Required cables and connecting methods differ depending on the cable/satellite box. For more information, please contact your cable/satellite provider.
- With this setup: You can record any unscrambled channel by selecting the channel on the cable/satellite box. Be sure that the cable/satellite box is turned on. You cannot record one channel while watching another channel.

If your TV has AUDIO / VIDEO input jacks, see the section “Connection to a TV” on page 10. If not, it is still possible to connect this unit to your TV by using a STEREO AUDIO / VIDEO RF modulator (commercially available). In this case, follow the instructions below.

Connection to RF Modulator (Not Supplied)

1) Disconnect the power cords of the devices from the AC outlet.
2) Make the connection as illustrated below.
3) Set your RF modulator’s channel 3/4 switch to either 3 or 4, whichever the TV channel is least used in your area. If your RF modulator has a modulator/antenna switch, set it according to your RF modulator’s manual.
4) Plug in the power cords of the devices to the AC outlet.
5) Turn on your TV and choose the same channel as you set the RF modulator’s channel 3/4 switch to. For more details, follow the instructions supplied with the RF modulator.

If your TV does not have AUDIO / VIDEO input jack.

Note:
- The quality of picture may become poor if the unit is connected to an RF modulator.
Preparation for Use

Turning on Unit for the First Time

Please note: most instructions in this manual refer to remote control use.

1. Be sure your TV's input is set to VIDEO. (Name may vary with TV manufacturer. See your TV manual for details.)

To Add or Delete Channels

3. Select the channel to be added or deleted.
4. Select “ADD” or “DELETE”.
5. To exit the menu.

To Preset the Channel Again

1. Press [SETUP] until the main menu appears.
2. Select “CHANNEL SET UP” by using [K]/[L], then press [B].
3. Select “AUTO SET UP” by using [K]/[L], then press [B]. After scanning, the tuner stops on the lowest memorized channel.

To Select a Channel

You can select a channel by using [the Number buttons] or [CH. K/L].

Notes for using [the Number buttons]:
• When selecting cable channels which are higher than 99, enter channel numbers as a three-digit number. (for example: 117, press [1], [1], [7])
• You must precede single-digit channel numbers with a zero. (for example: 02, 03, 04 and so on)

Note:
• Repeat these steps only if either there was a power failure or this unit has been unplugged for more than 30 seconds.
• If the clock is not set, the “CLOCK SET” menu appears when you press [SETUP]. In this case, press [SETUP] again.

To Change the Selected On-screen Language

1. Press [SETUP] until the main menu appears.
3. Select “ENGLISH”, “FRANCAIS” or “ESPAÑOL”. Then press [SETUP].

Note:
• If you accidentally select Spanish or French and need English: Press [SETUP] and choose “SELEC. IDIOMA” or “SELECTION LANGUE”. Press [B] and select “ENGLISH”. Finally, press [SETUP].
• To add or delete channels in this unit, [CH. K/L] button works on the channel number memorized in this unit, [CH. K/L] works on all.
Clock Setting

1. Press [SETUP] and select “CLOCK SET”. Then press [\(\text{\textup{B}}\)] to go to next step.

- If the clock is not set, “CLOCK SET” menu appears when you press [SETUP]. In this case, go to step 2.

2. Select the current month. Then press [\(\text{\textup{B}}\)] to go to next step.

3. Select the current day. Then press [\(\text{\textup{B}}\)] to go to next step.

4. Select the current year. Then press [\(\text{\textup{B}}\)] to go to next step.

5. Select the current hour. Then press [\(\text{\textup{B}}\)] to go to next step.

6. Select the current minute. Then press [\(\text{\textup{B}}\)] to go to next step.

7. Select “AM” or “PM”.


Note:
- To go back, press [\(\text{\textup{B}}\)] during steps 2 to 7.
- Clock setting will be lost after a power failure, or this unit has been unplugged for more than 30 seconds.
**DVD Functions**

**Precautions**

**Setup**

**VCR Functions**

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**Playback**

Before: Turn on the TV.

1. Insert a cassette tape into this unit.
2. To start playback
3. To stop playback
4. To eject the cassette tape

---

**Index Search**

To search by index mark.

2. To select index mark
3. To rewind
4. When index mark is reached, playback automatically begins.

**Time Search**

To search by length of time.

2. Select the desired length of time for fast forwarding or rewinding.
3. To rewind
4. When selected length of time is reached, playback will start automatically.

---

**Other Operations**

**To cue or review picture during playback (picture search)**

Use [►] or [◄] ([►] [FWD]) or [◄] [REW]) on this unit.
- Press it again and the unit will search in super high speed. (in the SLP mode only)

**To freeze the picture on TV screen during playback (still mode)**

Press [PAUSE]. Each time you press the button, the picture will be forwarded by one frame.
- If the picture begins to vibrate vertically in the still mode, stabilize the picture by using [CH. ▲ / ▼] ([CHANNEL ▲ / ▼] on this unit).
- If the picture is distorted or rolling vertically, adjust the vertical hold control on your TV if equipped.

**To reset the cassette tape counter (counter reset)**

Press [DISPLAY] to display the cassette tape counter on the TV.
Press [CLEAR/C.RESET] to reset the counter to “0:00:00”.

**To play back in slow motion (slow mode)**

Press [PAUSE] during playback, then press [►] ([►] [FWD]) on this unit).
- If you want to change speed in slow mode, press [►] or [◄] ([►] [FWD]) or [◄] [REW]) on this unit), slow speed will be more fast or slow mode.
- If the noise bars appear on the TV screen, you can reduce it by using [CH. ▲ / ▼] ([CHANNEL ▲ / ▼] on this unit)

**To rewind the cassette tape automatically (auto rewind)**

When a cassette tape reaches its end during playback, fast-forward or recording (except timer recording and one-touch timer recording), the cassette tape will automatically rewind to the beginning. After rewinding finishes, the unit will eject the cassette tape.

---

**Note:**
- To prevent damage to the cassette tape, still or slow mode will automatically stop after 5 minutes.
- To return to playback from the picture search, still or slow mode, press [PLAY].

---

**Note:**
- When a cassette tape without a record tab is inserted, the unit will start playback automatically.
- Tracking will be automatically adjusted upon playback. To adjust the tracking manually, use [CH. ▲ / ▼] ([CHANNEL ▲ / ▼] on this unit) during playback.

---

**Playback Before: Turn on the TV.**

- Insert a cassette tape into this unit.
- To start playback
- To stop playback
- To eject the cassette tape

**Note:**
- The index mark will be made automatically at the beginning of each recording.
- The time gap between index marks should be more than 1 minute for SP mode, 2 minutes for LP mode and 3 minutes for SLP mode.

**Time Search**

- Insert a cassette tape into this unit.
- Select the desired length of time for fast forwarding or rewinding.
- To rewind
- To fast forward
- When selected length of time is reached, playback will start automatically.

**Note for Index Search & Time Search:**
- These functions are not available during recording.
- Press [STOP] to stop the search.
- If a cassette tape ends during a search, your search will be canceled and the cassette tape will rewind to the beginning.
**Auto Repeat**

The unit will automatically rewind the cassette tape when it has reached the end and will automatically start playback unless you press [STOP] or you turn off the unit.

1. Press [SETUP], and choose “AUTO REPEAT”.
2. Press [ ] to “AUTO REPEAT” to set “ON” or “OFF”.

**Note:**
- The auto repeat function can also be set “ON” or “OFF” by pressing [REPEAT] on the remote control.
- To cancel auto repeat function, follow step 1 above. Then, press [ ] so that “OFF” appears beside “AUTO REPEAT”. Press [SETUP] to exit.
- The auto repeat playback will start automatically if you select “AUTO REPEAT” to “ON” in the stop mode.

**Recording**

**Recording & One-touch Timer Recording (OTR)**

1. Insert a recordable cassette tape.
2. Select the channel to record.
3. Press [SPEED] to select the desired tape speed.
4. Press [REC/OTR] until desired recording time is selected.
5. Press [STOP] to stop recording.
6. Press [OPEN/CLOSE] to eject the recorded cassette tape.

**To stop recording temporarily (pause mode)**

Press [PAUSE].
- During the recording in pause mode, 5 C marks appear on the TV screen. Each C mark represents 1 minute.
- Press it again to resume recording.
- Pause mode will be automatically canceled after 5 minutes to prevent damage to the cassette tape and the video head.

**Accidental Erasure Prevention**

To prevent accidental recording, remove erase-protection tab of the cassette tape. To record on it later, cover the hole with adhesive tape.

**Timer Recording**

1. Insert a recordable cassette tape.
2. Press [SETUP], select “TIMER PROGRAMMING”.
3. Select an empty program number. Then press [ ] to go to next step.

**Recording & One-touch Timer Recording (OTR)**

<table>
<thead>
<tr>
<th>Type of tape</th>
<th>SP mode</th>
<th>SLP mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recording / playback time</td>
<td>1 hour</td>
<td>3 hours</td>
</tr>
<tr>
<td>SP mode</td>
<td>2 hours</td>
<td>6 hours</td>
</tr>
<tr>
<td>SLP mode</td>
<td>2-2/3 hours</td>
<td>8 hours</td>
</tr>
</tbody>
</table>

- REC                             OTR (0:30)            OTR (1:00).... (normal recording)
- OTR (8:00)                   OTR (7:30)
Precautions

3 Select “ONCE”, “DAILY” (Mon-Fri), or “WEEKLY”. Then press [ ] to go to next step.

4 Select the desired date. Then press [ ] to go to next step.

• You can program the unit to record up to 8 programs, for up to a year in advance.

5 Select the desired starting time (hour/minute). Then press [ ] to go to next step.

6 Select “AM” or “PM”. Then press [ ] to go to next step.

7 Repeat the procedure in steps 5 and 6 to set the ending time.

8 Select the desired channel. Then press [ ] to go to next step.

9 Select the desired recording speed. Then press [ SETUP].

• To set another program after step 9, press [ ].

10 Press [T-SET] to set the timer standby mode.

Note:
• To go back one step, press [ ] during steps 3 to 9.

To check, correct or cancel a timer program

2) Press [SETUP] to call up the main menu.
3) Select “TIMER PROGRAMMING” by using [A / V], then press [ ].
4) Select the program number which you want to check by using [A / V]. The details of the program you selected will appear on the TV screen.
   • Go to the digit you want to change by using [A / V / ], then enter correct numbers by using [A / V].
   • You may cancel the entire program by pressing [ ] while the program number blinks.
5) Press [SETUP] to exit.
6) Press [T-SET] to return to the timer standby mode.

To cancel a timer recording in progress

Press [ ] on the unit.

Note:
• You cannot stop a started Timer Recording with [STOP ] on the remote control.

Notes for Timer Recording & One-touch Timer Recording (OTR)

• If a cassette tape is not in the unit or does not have the erase-protection tab, TIMER REC and “ ” indicator on this unit blinks and timer recording cannot be performed. Please insert a recordable cassette tape.
• When timer recordings are set, TIMER REC and “ ” indicator on this unit lights up. To use the VCR as usual until the time for the recording, press [T-SET] so that TIMER REC and “ ” indicator lights off.

After an one-touch timer recording or a timer recording has been set, this unit operates as follows:

• If a cassette tape runs out before an one-touch timer recording or a timer recording is finished, the unit ejects the cassette tape. Press [T-SET] on the remote control or [ ] on the unit, then press [VCR] to activate the VCR function again.
• Once the unit turns to the timer standby mode, no VCR functions are available until [T-SET] is pressed.
• To cancel the timer standby mode, press [T-SET] on the remote control or [ ] on the unit, then press [VCR] to activate the VCR function again.

When an one-touch timer recording or a timer recording is completed...

• If auto power off for DVD has been activated and there are timer recordings on standby, the unit turns off automatically, and TIMER REC and “ ” indicator on this unit lights to indicate the unit is in the timer standby mode.
• TIMER REC and “ ” indicator on this unit flashes if there are no more timer recordings on standby.
• If auto power off for DVD has NOT been activated, the unit goes to the DVD mode and all the VCR functions will be unavailable. All the DVD functions are available during one-touch timer recording, timer standby mode and timer recording.
• Press [ ] on the unit or [T-SET] on the remote control to use the VCR when the unit is turned off.
• Press [VCR/DVD] on this unit or [VCR] on the remote control to use the VCR when the unit is turned on. In case timer recording is in standby mode, press [ ] on this unit or [T-SET] on the remote control, and then press [VCR/DVD] on this unit or [ ] on the remote control.

If you want to use the DVD player during a timer recording or while TIMER REC and “ ” indicator on this unit is on or blinking.

• Press [ ] to turn on the unit. Press [DVD] on the remote control to choose DVD mode, then continue with the other DVD features as described in this manual.

Note for timer recording:
• If there is a power failure or the unit is unplugged for more than 30 seconds, clock setting and all timer programs will be lost.
Copying a Cassette Tape

Warning: Unauthorized recordings of copyrighted cassette tapes may be an infringement of copyright laws.

1) Insert a pre-recorded cassette tape into another external device for playback.
2) Insert a recordable cassette tape into this unit for recording.
3) Press [SPEED] on the remote control to select recording speed (SP or SLP).
4) Select the “L1” or “L2” position on the recording unit.
   • To use the input jacks on the back of this unit, select “L1” position by pressing [0], [0], [1] on the remote control or [CH. A/ ▽] on this unit.
   • To use the input jacks on the front of this unit, select “L2” position by pressing [0], [0], [2] on the remote control or [CH. A/ ▽] on this unit.
5) Press [REC] on the unit.
6) Press “PLAY” button on the external device.
7) To stop recording, press [C/ A (STOP/EJECT)] on this unit, then stop playback of the external device.

Note:
• For best results during dubbing, use buttons on this unit whenever possible. The remote control might affect another device’s operation.
• Always use video-quality shielded cables with RCA-type connectors. Standard audio cables are not recommended.
• L2 input jacks are on the front of this unit.
• You can use a video disc player, satellite receiver or other audio/video component with Audio / Video outputs.
• “L1” or “L2” is found before the lowest memorized channel. (Example: CH02)

DVD to Cassette Tape Duplication

This will be possible only if the DVD is not copy protected.

Before you begin:
• Insert a cassette tape in the cassette compartment. Make sure the tape’s record tab is intact and the tape is long enough to record the DVD.
• Insert the DVD you want to copy in the disc tray.
• Turn on the TV and set it to the correct Video In channel. (Check your TV owner’s manual for details.)

1 Press [DVD]. Press [PLAY ▶] to play back the disc, then press [PAUSE II] at the point where you want to start the recording.

2 Press [VCR] so VCR indicator lights up on the front panel.
   Press [CH. ▲/ ▽] repeatedly until “DISC” appears on the TV screen.

3 Press [SPEED] repeatedly until the desired tape speed (SP or SLP) appears briefly on the screen. For details about tape speed, refer to page 16.

4 Press [REC/OTR] to start recording. “REC” will appear on the display panel.

5 Press [DVD]. Press [PLAY ▶] to play back the disc.
   • To pause the recording, press [VCR], then press [PAUSE II] once. REC indicator on this unit will flash.
   • To resume recording, press [REC/OTR] or press [PAUSE II] again. REC indicator on this unit will light up again.
   • To stop recording, press [VCR], then press [STOP ▼].

Note:
• A Timer Recording is not available during DVD to cassette tape duplication.
MTS System (Multi-Channel Television Sound)

When You Receive or Record a Program Broadcast in MTS

- When you receive a broadcast on this unit, you can check the type of the broadcast by pressing [DISPLAY].
- When “TV STEREO” or “SAP” selection is valid, select them by following steps. This selection is needed when you record the program.
- SAP means Second Audio Program (usually second language).

<table>
<thead>
<tr>
<th>Display on the TV screen</th>
<th>Type of broadcast</th>
<th>STEREO/SAP Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>-None-</td>
<td>Regular (monaural audio)</td>
<td>-Invalid-</td>
</tr>
<tr>
<td>STEREO</td>
<td>Stereo broadcast</td>
<td>-Invalid-</td>
</tr>
<tr>
<td>SAP</td>
<td>Bilingual broadcast</td>
<td>TV STEREO (stereo main audio program)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SAP (second audio program)</td>
</tr>
<tr>
<td>STEREO SAP</td>
<td>Stereo &amp; Bilingual broadcast</td>
<td>TV STEREO (stereo main audio program)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SAP (second audio program)</td>
</tr>
</tbody>
</table>

When You Play Back a Tape Recorded in Hi-Fi Stereo

- If you have connected a stereo TV to this unit, select “HIFI”.
- If you have connected a monaural TV to this unit, select “MONO”.

<table>
<thead>
<tr>
<th>Your Selection</th>
<th>Type of recorded tape</th>
<th>HIFI</th>
<th>MONO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L-channel</td>
<td>R-channel</td>
<td>MONO</td>
</tr>
<tr>
<td>Hi-Fi tapes</td>
<td>Monaural</td>
<td>Monaural</td>
<td>Monaural</td>
</tr>
<tr>
<td>Hi-Fi</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hi-Fi tapes</td>
<td>Main audio program</td>
<td>Main audio program</td>
<td>Main audio program</td>
</tr>
<tr>
<td>Hi-Fi tapes</td>
<td>Recorded main audio program</td>
<td>Second audio program</td>
<td>Second audio program</td>
</tr>
<tr>
<td>Hi-Fi tapes</td>
<td>Recorded second audio program</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Press [AUDIO ] on the remote control during playing back, then select “HIFI” or “MONO”.
- During playing back non Hi-Fi tapes, [AUDIO ] on the remote control is not available.
Playback

Before:
Turn on the TV, amplifier and any other components which are connected to this unit. Make sure the TV and audio receiver (not supplied) are set to the correct channel.

1 DVD/CD  2 DVD/CD  3 DVD/CD  4 DVD/CD

Insert a disc with label facing up.

There are several playback modes.

To start playback

1) Press [OPEN/CLOSE] to open the disc tray.
2) Place the disc with label facing up.
3) Press [OPEN/CLOSE] again to close the disc tray.
4) Press [PLAY].

Note:
• Some DVD may be played from title 2 or 3 due to specific programs.
• Some discs may not start playback automatically. Then, press [STOP] to stop playback.

To stop playback

Press [STOP] during playback.

Note:
• When you play an MP3/WMA/JPEG-format disc, details on page 22.
• For DVD, set “STILL MODE” to “FIELD” in “DISPLAY” menu if pictures in the slow playback mode are blurred. Refer to pages 27-28.

Pause and Step-by-Step Playback

Press [PAUSE II] during playback.

To continue playback, press [PLAY].

The disc goes forward by one frame each time [PAUSE II] is pressed in the paused mode.

Note:
• For DVD, set “STILL MODE” to “FIELD” in “DISPLAY” menu if pictures in the pause mode are blurred. Refer to pages 27-28.
• Press [PAUSE II] one more time to pause an MP3 track.

Resume Playback

Press [STOP ■] during playback.
Resume message will appear on the TV screen.
Press [PLAY ▶], playback will resume from the point at which playback was stopped.

Note:
• To cancel resume, press [STOP ■] one more time in the stop mode.
• For MP3/WMA/JPEG, playback will resume from the beginning of the track at which playback was stopped.
• The resume playback information stays on even when the power is turned off, as long as the disc stays in the unit.

Disc Menu

Some discs contain menus which allow you to customize DVD playback. Use [△/▽/◀/▶] to select an item, then press [ENTER] or [PLAY ▶].

Calling Up a Menu Screen during Playback

• Press [MENU] to call up the disc menu.
• Press [TOP MENU] to call up the title menu.

Note:
• Menu operations may vary depending on the disc. Refer to the manual accompanying the disc for details.

Fast Forward / Reverse Search

Press [◀] repeatedly in the pause mode to select the required forward or reverse speed.
To continue playback, press [PLAY ▶].

Slow Forward / Reverse Search

Press [▶] or [◀] repeatedly during playback to select the required forward or reverse speed.
To continue playback, press [PLAY ▶].

Zoom

2) Press [ZOOM] repeatedly to select the required zoom factor: 2x, 4x or off.
3) Use [△/▽/◀/▶/] to slide the zoomed picture across the TV screen.
4) To exit zoom mode, press [ZOOM] to select OFF.

Note:
• You cannot pan through the zoomed picture on some JPEG files.

To use [SKIP ◀/▶]

Press [SKIP ◀/▶] once to skip to the next title, chapter or track.
Press [SKIP ◀/▶] twice (once for JPEG) in quick succession to skip back to previous title, chapter or track.
For JPEG files, [◄/▬] is also available.

EN – 20 –
On-Screen Display

You can check the information about the current disc by pressing [DISPLAY] on the remote control.

1. CH(Chapter): current chapter number / total chapters
   - remaining time of the current chapter
   - elapsed time of the current chapter

2. TT(Title): current title number / total titles
   - remaining time of the current title
   - elapsed time of the current title
   - layer numbers, appears only when playing a two-layered disc.
   - L0: Layer 0 is playing
   - L1: Layer 1 is playing
   - current repeat setting, appears only when the repeat setting is active.
   - C: Chapter repeat
   - T: Title repeat
   - A: A-B repeat
   - bit rate: the amount of audio and video data currently being read

3. current playback status
   - TR(Track): current track number / total tracks
   - ALL: current track number / total tracks
   - current repeat setting, if active
   - T: Track repeat
   - A: All Tracks repeat
   - A: A-B repeat
   - remaining time of the entire disc
   - elapsed time of the entire disc

4. The name of the file currently in play will be displayed.
   - When the Dual Playback is ON, MP3 track name will be displayed.
   - Current playback status
   - TR(Track): current track number / Total tracks
   - Current repeat setting, if active
   - T: Track repeat
   - G: Group (folder) repeat
   - A: Disc repeat

   (Only when you are playing a disc in PROGRAM or RANDOM mode.)

Note:

- When you are playing a disc in program or random mode, PROGRAM (or RANDOM) will be displayed instead of 2.

NOTE: For WMA files, 1-A and 1-B will be displayed after 1.

1-A Title name based on tag information currently in play will be displayed.

1-B Artist name based on tag information currently in play will be displayed.
MP3 / WMA / JPEG Playback

MP3 / WMA / JPEG is a method of compressing files. You can copy MP3 / WMA / JPEG files on CD-R/RW from the computer and play the files on this unit.

Insert an MP3 / WMA / JPEG-format disc, then the file list will automatically appear on the TV screen. Press [MENU] when you want to call up the file list if MP3 / WMA / JPEG-format disc is already inserted.

1) In stop mode, press [MENU].

- If all menu items cannot be displayed on the screen, "H" appears at the bottom of the screen, indicating that the user can view remaining items on the next page.
- "H" appears, it indicates that the user can view other items on the previous page. The track number of the currently highlighted item and the total tracks are shown at the center bottom of the screen.
- If "H" is shown at the bottom left, use [<] to view the next page. If "H" is shown at the bottom right, use [SKIP] to view the previous page.
- It may take some time until all menu items are displayed on the menu screen.

2) Use [A / V / S / ] to select a desired track to be played back, then press [PLAY] or [ENTER].

- If a JPEG file is selected, an image will be played back from the selected track and go to the next one in turn.
- To stop playback, press [STOP].

Note for JPEG:

- A track is displayed for 5 or 10 seconds and then the next track is displayed. Refer to "Slide Show Mode" on page 23.
- During JPEG playback, press [ANGLE] to rotate a picture 90 degrees clockwise.
- To change the size of the playback image, press [MODE] twice during playback. The size change mode appears on top of the TV screen. Then press [ ] or [ ] or [ENTER] to switch between NORMAL (100%) and SMALL (95%).
- The size change mode may have no effect on some files (e.g. files with a small picture size).
- The default setting is NORMAL.
- Progressive JPEG (JPEG files saved in the progressive format) will not be played back on this DVD player.
- High resolution JPEG files take longer to be displayed.

For best results use files recorded at these specifications:

<table>
<thead>
<tr>
<th>Applicable MP3/WMA file</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sampling frequency: 44.1 kHz or 48 kHz</td>
<td>For MP3/WMA file recorded in Variable Bit Rate (VBR), the unit may not display the actual elapsed time.</td>
</tr>
<tr>
<td>Constant bit rate: 32 kbps ~ 320 kbps (MP3) 48 kbps ~ 192 kbps (WMA)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Applicable JPEG file</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal playback</td>
<td>A JPEG image that extends beyond the screen is reduced so that it will be displayed within the screen.</td>
</tr>
<tr>
<td>Upper limit: 6,300 x 5,100 pixel  Lower limit: 32 x 32 pixel  File size: Max. 7 MB</td>
<td></td>
</tr>
<tr>
<td>Dual playback</td>
<td></td>
</tr>
<tr>
<td>Upper limit: 5,000 x 5,000 pixel  Lower limit: 32 x 32 pixel  File size: Max. 5 MB</td>
<td></td>
</tr>
</tbody>
</table>

Information on MP3 / WMA / JPEG discs

- This DVD player can playback images and sounds from data recorded in MP3, WMA and JPEG formats on CD-R and CD-RW discs.
- A file with an extension of "mp3 (MP3)" is called an MP3 file.
- A file with an extension of "wma (WMA)" is called a WMA file.
- A file with an extension of "jpg (JPEG)" or "jpeg (JPEG)" is called a JPEG file. The DVD player can run an image file conforming to the Exif specification.
- Exif is a file format, Exchangeable Image File format established by Japanese Electronic Industry Development Association (JEIDA).
- Files whose extension is other than "mp3 (MP3)", "jpg (JPEG)" and "jpeg (JPEG)" or "wma (WMA)" will not be listed on the MP3, JPEG or WMA menu.
- If the file is not recorded in MP3, JPEG or WMA format, noise may be produced even if the file extension is either "mp3 (MP3)", "jpg (JPEG)", "jpeg (JPEG)" or "wma (WMA)".
- The name of group and track can be displayed up to 25 characters.
- Unrecognizable characters will be replaced with asterisks. The ninth and deeper hierarchies cannot be displayed.
- Unplayable groups or tracks may be displayed depending on the recording conditions.
- If [TOP MENU] is pressed when a file list is displayed, the first item will be highlighted.

For some JPEG discs, JPEG menu will be displayed.

- If all menu items cannot be displayed on the screen, "H" appears at the bottom of the screen, indicating that the user can view remaining items on the next page.
- "H" appears, it indicates that the user can view other items on the previous page. The track number of the currently highlighted item and the total tracks are shown at the center bottom of the screen.
- If "H" is shown at the bottom right, use [SKIP] to view the next page. If "H" is shown at the bottom left, use [SKIP] to view the previous page.
- It may take some time until all menu items are displayed on the menu screen.

Note:

- A JPEG menu will appear.

1) In stop mode, press [MENU].

- If all menu items cannot be displayed on the screen, "H" appears at the bottom right of the screen, indicating that the user can view remaining items on the next page.
- "H" appears, it indicates that the user can view other items on the previous page. The track number of the currently highlighted item and the total tracks are shown at the center bottom of the screen.
- If "H" is shown at the bottom right, use [SKIP] to view the next page. If "H" is shown at the bottom left, use [SKIP] to view the previous page.
- It may take some time until all menu items are displayed on the menu screen.

2) Use [A / V / S / ] to select a desired track to be played back, then press [PLAY] or [ENTER].

- If a JPEG file is selected, an image will be played back from the selected track and go to the next one in turn.
- To stop playback, press [STOP].

Note:

- A track is displayed for 5 or 10 seconds and then the next track is displayed. Refer to "Resume Playback" on page 20.

3) Press [STOP], to stop playback.

Dual Playback

You can playback MP3 and JPEG files simultaneously.

This function is available only when Dual Playback is ON. Refer to page 30 on how to set the Dual Playback "ON" or "OFF".


- The FILE LIST will appear.

2) Using [A / V / S / ] to select a desired JPEG file or MP3 track from the FILE LIST, and then press [PLAY] or [ENTER].

- Dual Playback will begin.

3) Press [STOP], to stop playback.

Note:

- If you press [PLAY] directly after you inserted a disc which contains both MP3 tracks and JPEG files and if the Dual Playback setting is "ON", Dual Playback will start automatically.
- If you press [FWD] or [REV] during Dual Playback, a JPEG file will be paused.
- Zooming or rotating a JPEG file during Dual Playback may cause an intermittent sound.
- Dual Playback may not function properly if MP3 and JPEG files on the disc interfere each other due to the difference in their data size.
Folder Playback

You may select to play a folder.
This function is available only when Dual Playback is ON. Refer to page 30 on how to set the Dual Playback “ON” or “OFF”.
1) In stop mode, press [MODE].
   • The FOLDER LIST will appear.
2) Press [▲ / ▼] to select a folder, and then press [PLAY ▶] or [ENTER].
   • MP3 tracks and JPEG files in the selected folder will play simultaneously.
3) Press [STOP ■] to stop playback.

**Note:**
• The Folder Playback work only when both MP3 and JPEG files are in the same folder.

Slide Show Mode

You can switch to the Slide Show Mode during playback.
   • The slide show mode screen will appear.
   • The slide show mode cannot be switched when it is stopped, or from the file list screen or JPEG menu screen.
2) Press [◄] or [►] or [ENTER].
   • The Slide Show Mode will change.
   CUT IN/OUT : The entire image appears in one time.
   FADE IN/OUT : The image appears gradually and then disappears.
Search Functions

Search function does not work during programmed or random playback.

Using [SKIP [<, >]]

1. During playback, press [SKIP [<, >]] to skip to next chapter / title. Press [SKIP [<, >]] twice in quick succession to skip to previous chapter / title.
2. Select title/chapter number by using [the Number buttons] within 30 seconds.

Using [SEARCH MODE]


Using Time Search

1. Press [SEARCH MODE] repeatedly until the time search display appears.

Using [SKIP [<, >]]

1. During playback, press [SEARCH MODE] twice in quick succession to skip to previous chapter / title. Press [SEARCH MODE] twice in quick succession to skip to previous track.

Using Track Search

1. Press [SEARCH MODE].
2. Select track number by using [the Number buttons] within 30 seconds.

Using Title / Chapter Search


Using Title Search


Using Time Search

1. Press [SEARCH MODE] repeatedly until the time search display appears.

2. Select a desired disc time by using [the Number buttons] within 30 seconds.

Note:

- Depending on the disc being played back, this function can also be performed by directly entering the desired chapter number with [the Number buttons]. Refer to the manual accompanying the disc.

- For Audio CDs and MP3 / WMA / JPEG, Track Search is not available for programmed and random playback.

- During Dual Playback, using [SKIP [<, >]] will only affect MP3 tracks. To skip the JPEG files, use [<, >] if the "SLIDE SHOW" is set to other than "MUSIC".

Note:

- Press [CLEAR/C.RESET] to erase the incorrect input at step 2.
- The marker display will disappear in about 30 seconds when there is no output.
- Opening the disc tray or turning off the power will erase all markers.
- Press [CLEAR/C.RESET] at the desired marker.

To set a marker

1. Press [SEARCH MODE] repeatedly until the marker display appears.

2. Select a marker. Press [ENTER].

To return to the marker later

1. Press [SEARCH MODE] repeatedly until the marker display appears.

2. Select the marker.

3. Press [ENTER] at the desired marker.

To exit the marker screen

1. Press [RETURN].

Note:

- The marker display will disappear in about 30 seconds when there is no output.
- To clear a marker, select the marker to be cleared at step 2 in the section "To set a marker" or "To return to the marker later" and then press [CLEAR/C.RESET].
- Opening the disc tray or turning off the power will erase all markers.
- For Audio CD, [SEARCH MODE] is not available for programmed and random playback.
Repeat / Random / Programmed Playback

Repeat Playback

Repeat function is available only during playback.

1 Press [REPEAT] to select the desired option to repeat during playback.

- DVD
  - OFF (repeat off)
  - CHAPTER (current chapter repeat)
  - TITLE (current title repeat)

- CD
  - OFF (repeat off)
  - TRACK (current track repeat)
  - ALL (entire disc repeat)

- MP3
  - OFF (repeat off)
  - TRACK (current track repeat)
  - GROUP (current group repeat)
  - ALL (entire disc repeat)

- WMA
  - OFF (repeat off)
  - TRACK (current track repeat)
  - ALL (entire disc repeat)

- JPEG
  - OFF (repeat off)
  - TRACK (current track repeat)
  - GROUP (current group repeat)
  - ALL (entire disc repeat)

Each time you press [REPEAT], repeat function changes as example below.

Note:
- Repeat setting (except "ALL") will be cleared when moving to another title, chapter or track.
- This function may not be available with some discs or during repeat A-B playback.
- If you choose Group repeat during Dual Playback, all tracks or files in each folder will play repeatedly. For example, if you choose Group repeat during Dual Playback of MP3 folder A and JPEG folder B, all MP3 tracks in folder A and all JPEG files in folder B will be repeated.

Repeat A-B Playback

Repeat function is available only during playback.

1 Press [A-B] at your desired starting point (A).

2 Press [A-B] at your desired ending point (B).

- Point B should be in the same title or track as point A.

Note:
- To exit the sequence, press [A-B] so that "OFF" appears.
- This function is not available in the other repeat modes.
- The A-B Repeat section can only be set within the current title for DVDs, or current track for Audio CDs.

Random Playback

This function shuffles the playing order of tracks instead of playback in sequence.

1 Press [MODE] twice in stop mode.

2 Press [PLAY] to start random playback.

Note:
- To repeat the current track in the random mode, press [REPEAT] repeatedly until "ALL" appears during playback.
- To repeat the entire random selections, press [REPEAT] repeatedly until "ALL" appears during playback.
- During random playback, you cannot go back to the previous track.
- Random Playback of MP3 or JPEG tracks is not available while "DUAL PLAYBACK" is "ON".

Programmed Playback

You may determine the order in which tracks will play back.

1 Press [MODE] once in stop mode.

2 Using [A / V] to select desired track. Press [ENTER].

3 Press [PLAY] to start programmed playback.

Note:
- Press [CLEAR/C.RESET] at step 2 to erase the most recently entered track.
- To erase all programmed tracks at once, select "ALL CLEAR" and press [ENTER] at step 2.
- While a program is being played back, [STOP] works as follows;
  - Press [STOP] and [PLAY] next, so that the programmed playback restarts. (CD playback restarts from the beginning of the current track.)
  - Press [STOP] twice and [PLAY] next, so that playback restarts from the first track in the original order. However, your programmed playback can be restarted when you follow the above steps. (Your programs are still stored until either the disc tray is open or power is turned off.)
  - To repeat the current track in the program, press [REPEAT] repeatedly until "TRACK" appears during playback.
  - To repeat the entire program, press [REPEAT] repeatedly until "ALL" appears during playback.
  - Programmed Playback of MP3 or JPEG tracks is not available while "DUAL PLAYBACK" is "ON".
Special Settings

Subtitle Language

This unit allows you to select a subtitle language (if available) during DVD playback.

1 Press [SUBTITLE] during playback.

Each time you press [SUBTITLE], subtitle language changes as example below.

- OFF (no subtitles)
- ENG (English subtitles)
- FRE (French subtitles)

2 Use [< or >] to set subtitle to "OFF".

Press [SUBTITLE] repeatedly until "OFF" appears.

Note:
- If your language is not shown after pressing [SUBTITLE] several times, the disc may not have that language. However, some discs have the subtitle language setting on the disc menu. (Operation varies depending on the disc, so refer to the manual along with the disc.)
- When "NOT AVAILABLE" appears on the TV screen, it means no subtitle is recorded on the scene.
- If you choose a language that has a 3-letter language code, the code will be displayed every time you change the subtitle language setting. If you choose any other languages, ‘---’ will be displayed instead. Refer to page 32.
- Some discs will only allow you to change the subtitle from the disc menu. Refer to the manual accompanying the discs for details.

Camera Angles

Some DVD may contain scenes which have been shot simultaneously from various angles. You can change the camera angle if [ appears on the TV screen. If the "ANGLE ICON" is set to "OFF" in OTHERS menu, [ will not appear. Refer to pages 27-30.

1 Press [ANGLE] during playback.

Each time you press [ANGLE], camera angle changes.

Black Level Setting

Adjust the black level setting to make the dark areas of the TV picture brighter.

1 Press [MODE] repeatedly until " appears during playback.

ON: makes the dark areas brighter.
OFF: shows the original picture as recorded.

2 Press [ENTER] to adjust the black level.

ON: makes the dark areas brighter.
OFF: shows the original picture as recorded.

3 Press [RETURN] to exit.

Note:
- When the Black Level Setting is set to "ON", the black area of the image may appear to be dark green.

Stereo Sound Mode

This unit allows you to select a sound mode during CD playback.

1 Press [AUDIO  ] during CD playback.

Each time you press [AUDIO  ], sound mode changes as example below.

- CD STEREO (right and left channels are active)
- L-ch (left channel is active)
- R-ch (right channel is active)

Note:
- The STEREO can only be output when playing back DTS CD.

Virtual Surround

You can enjoy stereophonic virtual world on your existing 2 channel stereo system.

1 Press [MODE] repeatedly until " appears.

2 Press [ENTER] for the desired effect.

1: natural effect
2: emphasized effect
OFF: no effects (original sound)

3 Press [RETURN] to exit.

Note:
- For audio CD, virtual surround will not be effective if the sound mode is set to something other than "STEREO". Refer to "Stereo Sound Mode".
- For DVD when playing back 96kHz with virtual surround function, the sound will be down sampled to 48kHz.

Audio Language

This unit allows you to select an audio language (if multiple languages are available) during DVD playback.

1 Press [AUDIO  ] to change audio language.

Each time you press [AUDIO  ], the audio language changes as example below.

- ENG (English audio)
- SPA (Spanish audio)
- FRE (French audio)

Note:
- If your language is not shown after pressing [AUDIO  ] several times, the disc may not have that language. However, some discs allow audio language setting on the disc menu. (Operation varies depending on the disc, so refer to the manual along with the disc.)
- When "OFF" appears on the TV screen, it means audio language is not available.
- Some discs will only allow you to change the audio setting from the disc menu. Refer to the manual accompanying the discs for details.

Virtual Surround

You can enjoy stereophonic virtual world on your existing 2 channel stereo system.

1 Press [MODE] repeatedly until " appears.

2 Press [ENTER] for the desired effect.

1: natural effect
2: emphasized effect
OFF: no effects (original sound)

3 Press [RETURN] to exit.

Note:
- For audio CD, virtual surround will not be effective if the sound mode is set to something other than "STEREO". Refer to "Stereo Sound Mode".
- For DVD when playing back 96kHz with virtual surround function, the sound will be down sampled to 48kHz.
DVD Setting

QUICK Menu

You can select "PLAYER MENU", "TV ASPECT", "PROGRESSIVE", "DOLBY DIGITAL" or "DTS" from "QUICK" menu quickly.

1. Press [SETUP] in the stop mode.

SETUP menu

Confirm that "QUICK" is selected.

2. Select the desired item.

You can select "PLAYER MENU", "TV ASPECT", "PROGRESSIVE", "DOLBY DIGITAL" or "DTS" from "QUICK" menu quickly.

CUSTOM Menu

You can change the settings of the unit.
• QUICK on pages 27-28 indicates DVD setting menus also accessible from "QUICK" menu.

1. Press [SETUP] in the stop mode.

SETUP menu

2. Select "CUSTOM".

Select the desired item.

Select the desired item.

LANGUAGE menu

DISPLAY menu

AUDIO menu

PARENTAL menu

OTHERS menu

A LANGUAGE Setting

Follow steps 1 to 3 in the "CUSTOM Menu" section above.

4. Select the desired item.

5. Select the desired language.

6. To exit the menu

Note:
• In "QUICK" menu, "PLAYER MENU", "TV ASPECT", "PROGRESSIVE" or "DOLBY DIGITAL" are available. "QUICK" menu consists of the setting menu frequently used, and they are accompanied with "QUICK". You can make all settings in "CUSTOM" menu.

Note:
• Language options are not available with some discs.
• If "OTHER" is selected on "AUDIO", "SUBTITLE" or "DISC MENU" menu, press 4-digit number to enter the code for the desired language. Refer to the "Language Code List" on page 32.
• Only the languages supported by the disc can be selected.
• "LANGUAGE" setting for "AUDIO" and "SUBTITLE" are not available with some discs. Then use [AUDIO] and [SUBTITLE]. Refer to page 26.
B DISPLAY Setting
You can change the display functions. Follow steps 1 to 3 in the “CUSTOM Menu” section on page 27.

4 Select the desired item.

DISPLAY menu

Note:
PROGRESSIVE:
• You can set “PROGRESSIVE” to “OFF” in “DISPLAY” menu or press and hold (PLAY) on this unit on the DVD side for more than 5 seconds during playback until “P. SCAN” disappears on the DVD player's display.
• When “PROGRESSIVE” is “ON”, “P. SCAN” appears on the DVD player's display after you exit the setup screen.

Note:
In “QUICK” menu, “PLAYER MENU”, “TV ASPECT”, “PROGRESSIVE” or “DOLBY DIGITAL” are available. “QUICK” menu consists of the setting menu frequently used, and they are accompanied with quick . You can make all settings in “CUSTOM” menu.

C AUDIO Setting
Choose the appropriate audio setting for your equipment. It only affects during the playback of DVD discs. Follow steps 1 to 3 in the “CUSTOM Menu” section on page 27.

4 Select the desired item.

AUDIO menu

Note:
• In “QUICK” menu, “PLAYER MENU”, “TV ASPECT”, “PROGRESSIVE” or “DOLBY DIGITAL” are available. “QUICK” menu consists of the setting menu frequently used, and they are accompanied with . You can make all settings in “CUSTOM” menu.
**Parental Levels**

Parental level allows you to set the rating levels of your DVD software. Playback will stop if the ratings exceed the levels you set. Follow steps 1 to 3 in the “CUSTOM Menu” section on page 27.

**To Change the Password for Parental Controls**

You can change your password for parental controls. Follow steps 1 to 3 in the “CUSTOM Menu” section on page 27.

**Note:**
- Some DVD-video may not respond to “PARENTAL” setting. Make sure this function works with your DVD-video.
- If there is a DVD disc inside of this unit when you set up the parental control, press [OPEN/CLOSE ▲] to activate the parental control level.
- The resume information will be cleared if you change the parental level when the resume information is on.
OTHERS Setting

You can change the other functions. Follow steps 1 to 3 in the “CUSTOM Menu” section on page 27.

1 Press [SETUP] in the stop mode.

2 Select “INIT.” (INITIALIZE).

3 Select “YES”.

4 Select the desired item.

5 ANGLE ICON:
   (Default: ON)
   Set to “ON” to display ☑ when multiple camera angles are available during DVD playback.

   AUTO POWER OFF:
   (Default: ON)
   Set to “ON” to switch this unit from DVD to VCR mode automatically after 30 minutes of no use.
   • At first, after 5 minutes of no use, Screen Saver will be activated.

   DUAL PLAYBACK:
   (Default: OFF)
   Set to “ON” to play MP3 tracks and JPEG files simultaneously.

   SLIDE SHOW:
   (Default: 5 sec)
   Set the display time for SLIDE SHOW.

   MUSIC: Displays an image for each MP3 track during the Dual Playback.

6 To exit the menu

Note

SLIDE SHOW:
• If you select “MUSIC” when Dual Playback is OFF, the playback speed will be set to 5 seconds automatically.

Reset to the Default Setting (Except for PARENTAL Setting)

1 Press [SETUP] in the stop mode.

2 Select “INIT.” (INITIALIZE).

3 Select “YES”.

4 To exit the menu

Note:
• When you do not wish to initialize, select “NO” at step 3.
# INFORMATION

## Troubleshooting

If this unit does not perform properly when operated as instructed in this manual. Refer to the following:

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power.</td>
<td>• Make sure the power plug is connected to an AC outlet.</td>
</tr>
<tr>
<td>The unit switches from DVD mode to VCR mode after 30 minutes of no activity.</td>
<td>• When “AUTO POWER OFF” is set to “ON”, the unit switches itself from DVD mode to VCR mode if disc playback stops for more than 30 minutes and you press no buttons on the remote or the unit.</td>
</tr>
<tr>
<td>This unit does not respond to the remote control.</td>
<td>• Check if the power plug is connected to an AC outlet.</td>
</tr>
<tr>
<td>• Check the batteries in the remote control.</td>
<td></td>
</tr>
<tr>
<td>• Aim the remote control directly at the infrared sensor window. If necessary, remove all the obstacles between the sensor and the remote control.</td>
<td></td>
</tr>
<tr>
<td>• You have to be within 23 feet (7m) of this unit.</td>
<td></td>
</tr>
<tr>
<td>• Check if a cassette tape is in this unit.</td>
<td></td>
</tr>
<tr>
<td>• Tune your radio to an empty AM station so that you hear a lot of static. Turn up the volume, then if you hear some signal sound from the radio in response to your pressing buttons on the remote control, the remote control is working.</td>
<td></td>
</tr>
<tr>
<td>• Press and hold any button on remote control toward a digital camera. The remote control is working if you confirm infrared light through the digital camera.</td>
<td></td>
</tr>
<tr>
<td>Poor picture or noise.</td>
<td>• Interference signal may be received. Change the position and direction of the unit.</td>
</tr>
<tr>
<td>VCR function does not work.</td>
<td>• Press [VCR/DVD] on this unit or [VCR] on the remote control to light up the VCR indicator.</td>
</tr>
<tr>
<td>Timer recording is impossible.</td>
<td>• Make sure the timer program is set correctly.</td>
</tr>
<tr>
<td>• Make sure TIMER REC indicator on this unit lights up. If not, press [T-SET].</td>
<td></td>
</tr>
<tr>
<td>• Make sure the VCR clock is set correctly.</td>
<td></td>
</tr>
<tr>
<td>Cannot go into record mode.</td>
<td>• Make sure the cassette tape has a record tab. If needed, cover the hole with adhesive tape.</td>
</tr>
<tr>
<td>• Activate this unit in VCR mode. Press [VCR] on the remote control so that the VCR indicator will illuminate.</td>
<td></td>
</tr>
<tr>
<td>Playback picture is partially noisy.</td>
<td>• Adjust tracking control for a better picture by pressing [CHANNEL (\uparrow / \downarrow)] on the unit or [CH. (\uparrow / \downarrow)] on the remote control.</td>
</tr>
<tr>
<td>Cannot view a picture but the audio is OK.</td>
<td>• Head cleaning may be necessary. Refer to &quot;Auto Head Cleaning&quot;.</td>
</tr>
<tr>
<td>• Make sure the VCR is not in the VCR menu mode.</td>
<td></td>
</tr>
<tr>
<td>No or poor, playback picture.</td>
<td>• Fine tune your TV.</td>
</tr>
<tr>
<td>TV programs cannot be seen normally.</td>
<td>• Re-check the ANT-IN and ANT-OUT connections. (page 10)</td>
</tr>
<tr>
<td>Video or color fades in and out when making a copy of a cassette tape.</td>
<td>• You cannot copy a copyrighted cassette tape.</td>
</tr>
<tr>
<td>Cannot remove the cassette tape.</td>
<td>• Check if this unit is in the VCR mode. If not, press [VCR] on the remote control to switch the mode.</td>
</tr>
<tr>
<td>DVD function does not work.</td>
<td>• Press [VCR/DVD] on this unit or [DVD] on the remote control to light up the DVD indicator.</td>
</tr>
<tr>
<td>No picture.</td>
<td>• Connect the video cable firmly.</td>
</tr>
<tr>
<td>• Insert a correct video disc that can be played back on this unit.</td>
<td></td>
</tr>
<tr>
<td>• Press [VCR/DVD] on the remote control. Check if the DVD indicator illuminates. Then try other DVD features.</td>
<td></td>
</tr>
<tr>
<td>• Set PROGRESSIVE correctly in “DISPLAY” menu. Turn it on only if your TV has progressive scan and you are using the component video connections between the unit and the TV. Disable progressive scan for all other connections. (page 10)</td>
<td></td>
</tr>
<tr>
<td>Disc cannot be played back.</td>
<td>• Insert the disc.</td>
</tr>
<tr>
<td>• Clean the disc.</td>
<td></td>
</tr>
<tr>
<td>• Place the disc correctly with the label side up.</td>
<td></td>
</tr>
<tr>
<td>• Check if the disc is defective by trying another disc.</td>
<td></td>
</tr>
<tr>
<td>• Cancel the parental lock or change the control levels.</td>
<td></td>
</tr>
<tr>
<td>• Handle a disc with special care so that it does not have fingerprints, scratches, or dusts on its surface.</td>
<td></td>
</tr>
<tr>
<td>No sound.</td>
<td>• Adjust the volume.</td>
</tr>
<tr>
<td>• Check that the speakers are connected correctly.</td>
<td></td>
</tr>
<tr>
<td>• Connect the audio cables firmly.</td>
<td></td>
</tr>
<tr>
<td>• Turn the power of the audio component on.</td>
<td></td>
</tr>
<tr>
<td>• Check the VIDEO/AUDIO cable connections to the TV. (See “Connection to a TV”.)</td>
<td></td>
</tr>
<tr>
<td>• Correct the input settings on the audio component.</td>
<td></td>
</tr>
<tr>
<td>No DTS audio is output.</td>
<td>• Use a DIGITAL AUDIO OUT jack when outputting the DTS audio.</td>
</tr>
<tr>
<td>Distorted picture.</td>
<td>• Connect this unit directly to the TV.</td>
</tr>
<tr>
<td>• There are some cases where pictures may be slightly distorted, and those are not a sign of a malfunction.</td>
<td></td>
</tr>
<tr>
<td>• Although pictures may stop for a moment, this is not a malfunction. (page 20)</td>
<td></td>
</tr>
<tr>
<td>• Set PROGRESSIVE correctly. Turn it on only if your TV has Progressive Scan and you are using the Component Video connections between the unit and the TV. Disable Progressive Scan for all other connections. (page 10)</td>
<td></td>
</tr>
<tr>
<td>Audio or subtitle language does not match the setting.</td>
<td>• The selected language is not available for audio or subtitles on the DVD.</td>
</tr>
<tr>
<td>• This is not a malfunction.</td>
<td></td>
</tr>
<tr>
<td>The camera angle cannot be changed.</td>
<td>• The angle cannot be switched for DVDs which do not contain multiple angles. In some cases multiple angles are only recorded for specific scenes.</td>
</tr>
<tr>
<td>• This is not a malfunction.</td>
<td></td>
</tr>
<tr>
<td>Audio or subtitle language cannot be changed.</td>
<td>• The DVD does not contain audio source or subtitles in the selected language.</td>
</tr>
<tr>
<td>• This is not a malfunction.</td>
<td></td>
</tr>
</tbody>
</table>
Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Owner's Manual for details on correct operations.

Video heads:
Output signal format: NTSC color
Power source: 120 V AC +/- 10%, 60 Hz +/- 0.5%
Power consumption: 21W (standby: 2.9W)
Power source: NTSC color

Video output:
Output level: 1 Vp-p (75Ω)
Jack: RCA jack
S-Video output:
Y (luminance) - Output level: 1 Vp-p (75Ω)
C (color) - Output level: 286 mVp-p (75Ω)
Jack: 4 pin mini DIN
Component video output:
Y: 1.0 Vp-p (75Ω)
C (color) - Output level: 286 mVp-p (75Ω)
P-B/Y: 0.7 Vp-p (75Ω)
S-Video output:
Jack: RCA jack
Audio output:
During audio output: 2Vrms
(Out impedance: less than 1kΩ)
Jacks: RCA jacks

Symptom | Remedy
--- | ---
• That operation is prohibited by this unit or the disc. | - That operation is prohibited by this unit or the disc.
- This is not a malfunction.

- Completely distorted picture or black/white picture with DVD appears on the TV screen, connect the unit directly to the TV. Make sure the disc is compatible with the unit.
- Check if the PROGRESSIVE mode is set correctly. (pages 27-28)
- No audio at digital output - Check the digital connections.
- Check if the audio format of the selected audio language matches your receiver capabilities.
- Picture freezes momentarily during playback. - Check the disc for finger prints/scratches and clean with a soft cloth wiping from center to edge.
- No return to start-up screen when disc is removed. - Reset the unit by switching the unit off, then on again.
- Buttons do not work or the unit stops responding. - To completely reset the unit, unplug the AC cord from the AC outlet for 5-10 seconds.
- No operation by some operating commands during playback. - Operations may not be permitted by the disc. Refer to the instructions of the disc.
- The unit cannot read CDs / DVDs. - Use a commonly available cleaning CD / DVD to clean the lens before sending the unit for repair.
- Playback does not start when the title is selected. - Check the "PARENTAL" setting.
- The password for rating level has been forgotten. - Enter the default password ‘4737’, then your forgotten password will be cleared.
- Some functions are prohibited on some discs.
- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Owner’s Manual for details on correct operations.
- Playback from a desired track and random playback are not available during programmed playback.
- Designs and specifications are subject to change without notice.
- If there is a discrepancy between languages, the default language will be English.
- This model complies with the above specifications.
- This model may not be compatible with features and/or specifications that may be added in the future.

Specifications

Video heads:
Output signal format: NTSC color
Power source: 120 V AC +/- 10%, 60 Hz +/- 0.5%
Power consumption: 21W (standby: 2.9W)
Operating temperature: 41°F (5°C) to 104°F (40°C)
Dimensions:
W : 17 3/16" (435mm)
H : 3 3/4" (94mm)
D : 9 3/16" (233mm)
Weight: Approx 5.95 lbs (2.7kg)

Language Code List

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-B</td>
<td></td>
</tr>
<tr>
<td>Abkhazian</td>
<td>4748</td>
</tr>
<tr>
<td>Afar</td>
<td>4747</td>
</tr>
<tr>
<td>Afrikaans</td>
<td>4752</td>
</tr>
<tr>
<td>Albanian</td>
<td>6563</td>
</tr>
<tr>
<td>Amharic</td>
<td>4759</td>
</tr>
<tr>
<td>Arabic</td>
<td>4764</td>
</tr>
<tr>
<td>Armenian</td>
<td>5471</td>
</tr>
<tr>
<td>Assamese</td>
<td>4765</td>
</tr>
<tr>
<td>Aymara</td>
<td>4771</td>
</tr>
<tr>
<td>Azerbaijani</td>
<td>4772</td>
</tr>
<tr>
<td>Bashkir</td>
<td>4847</td>
</tr>
<tr>
<td>Bengali</td>
<td>5167</td>
</tr>
<tr>
<td>Bengali,Bangla</td>
<td>4860</td>
</tr>
<tr>
<td>Bhutanese</td>
<td>5072</td>
</tr>
<tr>
<td>Bihari</td>
<td>4804</td>
</tr>
<tr>
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Digital audio output:
Output level: 500 mVp-p (75Ω)
Optical digital output: Optical connector
Coaxial digital output: RCA jack

If you choose a Language that has a 3-letter language code, the code will be displayed every time you change the audio or subtitle language setting on page 27. If you choose any other languages, ‘---’ will be displayed instead. (3-letter language code is written in brackets.)

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**LIMITED WARRANTY**

**Limited Canadian Warranty**

For Toshiba Brand Digital Audio/Video Products

Toshiba of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TOSHIBA BRAND DIGITAL AUDIO/VIDEO PRODUCT (the "DAV PRODUCT(s)" or "DAV Product(s)") AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

DAV PRODUCTS PURCHASED IN CANADA, AND USED ANYWHERE OUTSIDE OF CANADA INCLUDING, WITHOUT LIMITATION, THE UNITED STATES AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.

DAV PRODUCTS PURCHASED ANYWHERE OUTSIDE OF CANADA, INCLUDING, WITHOUT LIMITATION, THE UNITED STATES AND MEXICO, AND USED IN CANADA, ARE NOT COVERED BY THESE WARRANTIES.

**Limited One (1) Year Warranty on Parts and Labour**

Subject to the more limited warranty if the DAV Product is used for any commercial or business purposes as set out below, TCL warrants to the original consumer purchaser of a DAV Product and its parts against material defects in materials or workmanship that result in the DAV Product failing for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL’S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART, WITHOUT CHARGE TO YOU FOR PARTS OR LABOUR. YOU MUST DELIVER THE ENTIRE DAV PRODUCT TO A TCL DAV PRODUCT AUTHORIZED SERVICE PROVIDER ("ASP"). YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE DAV PRODUCT TO AND FROM THE ASP.

**Rental Units**

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

**Limited Warranty for Commercial Units**

TCL warrants DAV Products that are used for any commercial or business purposes as follows: all parts are warranted against material defects in materials or workmanship that result in the DAV Product failing for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL’S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART, WITHOUT CHARGE TO YOU FOR PARTS OR LABOUR. YOU MUST DELIVER THE ENTIRE DAV PRODUCT TO AN ASP. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE DAV PRODUCT TO AND FROM THE ASP.

**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 DAV Product must be performed by an ASP.
3. The warranties from TCL are effective only if the DAV Product is (i) purchased as new and unopened from TCL or from TCL’s authorized distributors, dealers or resellers ("ADR’s") and (ii) located/operated in Canada.
4. Warranties extend only to material defects in materials or workmanship as limited above, and do not extend to:
   a. Service, repairs or replacement made necessary by accident, misuse, abuse, moisture, liquids, dust, dirt, neglect, accident, damage, 24/7 applications, improper installation, improper operation, improper cleaning, improper maintenance, normal wear and tear, or any other external cause or event, act or omission outside the control of TCL, including fire, theft, acts of God, alteration, power failures, power surges or power shortages, lightning, other electrical faults, or repairs, modifications or replacements by persons other than those authorized by TCL to service the DAV Product;
   b. Replacement of missing, discarded or lost parts, the provision of retrofits, or preventive maintenance;
   c. Repair of damage that is cosmetic only or does not affect the DAV Product functionality, such as wear and tear, scratches and dents;
   d. Service on Toshiba-branded accessory items (such accessory items may be covered by their own warranty);
   e. Service on third party products or service made necessary by use of incompatible third party products;
   f. Service made necessary by the simultaneous use of this DAV Product and connected equipment;
   g. Modifications to the DAV Product not approved in writing by TCL, and service made necessary by the use or installation of non-Toshiba modifications to the DAV Product;
   h. Service of a DAV Product on which the TOSHIBA label or logo, rating label or serial number have been defaced or removed;
   i. On-site service and repair of the DAV Product;
   j. Damage to the DAV Product caused by failure to follow the specifications, User manuals or guides as to usage and/or storage.

**Disclaimer and Limitation of Remedy**

TO THE EXTENT NOT PRECLUDED BY LAW, ALL OTHER EXPRESS AND IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS FOR THIS DAV PRODUCT, INCLUDING THE IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED AND EXCLUDED. IF THE APPLICABLE LAW, STATUTORY OR OTHERWISE, PRECLUDES THE EXCLUSION OF ANY IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS THEN SUCH IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS ARE OTHERWISE LIMITED IN DURATION TO THE TERM OF THIS EXPRESS WRITTEN LIMITED WARRANTY. TO THE EXTENT NOT PRECLUDED BY LAW, STATUTORY OR OTHERWISE, THIS WRITTEN WARRANTY SUPERCEDES AND SPECIFICALLY DISCLAIMS ANY OTHER WARRANTY, CONDITION OR REPRESENTATION NOT STATED IN THIS WARRANTY, WHETHER MADE BY TCL, TOSHIBA CORPORATION, THEIR AFFILIATES, ADRs AND ASPs AND WHETHER MADE ORALLY OR IN WRITING (INCLUDING ANY STATEMENT IN ANY BROCHURE, PRESS RELEASE, ANNOUNCEMENT, ADVERTISEMENT, POINT OF SALE DISPLAY, ETC.).

YOU MUST READ AND FOLLOW ALL SET-UP AND USAGE INSTRUCTIONS IN THE APPLICABLE USER GUIDES AND/OR MANUALS. IF YOU FAIL TO DO SO, THIS DAV PRODUCT MAY NOT FUNCTION PROPERLY AND YOU MAY SUFFER DAMAGE. THIS WARRANTY WILL NOT COVER ANY SERVICE THAT IS REQUIRED, IN PART OR IN WHOLE, AS A RESULT OF ANY FAILURE TO FOLLOW THE SET-UP AND USAGE INSTRUCTIONS. THIS WARRANTY DOES NOT APPLY AND SHALL BE VOID AND UNENFORCEABLE IF THE DAV PRODUCT IS OPENED, SERVICED, OR REPAIRED BY PERSONS OTHER THAN THOSE AUTHORIZED BY TCL TO SERVICE OR REPAIR THE DAV PRODUCT.
IF THE DAV PRODUCT FAILS TO WORK AS WARRANTED ABOVE, YOUR SOLE AND EXCLUSIVE REMEDY SHALL BE REPAIR OR REPLACEMENT OF THE DEFECTIVE PART, IN NO EVENT WILL TCL, TOSHIBA CORPORATION, THEIR AFFILIATES, ADRS OR ASPS (THE “RELATED PARTIES”) BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY DAMAGES, MONEY REIMBURSEMENT, COSTS OR EXPENSES. THIS LIMITATION APPLIES TO DAMAGES, MONEY REIMBURSEMENT, COSTS OR EXPENSES OF ANY KIND WHATSOEVER INCLUDING ANY DIRECT OR INDIRECT DAMAGES, DAMAGE TO PROPERTY OR PERSON, LOST PROFITS, LOST SAVINGS, INCONVENIENCE OR OTHER SPECIAL, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES, WHETHER FOR BREACH OF WARRANTY, BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), UNDER A STATUTE OR UNDER ANY OTHER LAW OR FORM OR ACTION, OR WHETHER ARISING OUT OF THE USE OR INABILITY TO USE THE DAV PRODUCT, EVEN IF ANY OF THE RELATED PARTIES HAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR OF ANY CLAIM BY ANY OTHER PARTY. 

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever.

Arbitration and Dispute Resolution
To the extent not precluded by law, any claim, dispute, controversy or disagreement (whether for breach of warranty, breach of contract, tort (including negligence), under a statute or under any other law or form of action) against any of the Related Parties arising out of, or otherwise relating to: (i) this warranty; (ii) the DAV Product; (iii) any oral or written representations, statements, brochures, press releases, advertising, announcement, point of sale display, or promotional material relating to the DAV Product; (iv) the relationships that result from this warranty, (the foregoing claims, disputes controversies and disagreements are collectively referred to as the “Dispute”), shall be referred to and resolved by final and binding arbitration (to the exclusion of the courts). To the extent not precluded by law, you agree to waive any right that you may have to commence or participate in any representative or class proceeding against the Related Parties relating to any Dispute. If and where applicable and to the extent not precluded by law, you further agree to opt out of any such representative or class proceedings. Arbitration of any Dispute will be conducted in the forum and in the manner as agreed to between you and TCL. Failing such agreement, the arbitration will be conducted by one arbitrator pursuant to the laws and rules relating to arbitration generally in force in the jurisdiction in which you reside at the time that the Dispute arises. To the extent not precluded by law, no claim, dispute, controversy or disagreement of any other person may be joined or combined with any Dispute by you, without the prior written consent of TCL.

Critical Applications
The DAV Product you have purchased is not designed for any “critical applications.” “Critical applications” means life support systems, medical applications, connections to implanted medical devices, commercial transportation, nuclear facilities or systems or any other applications where DAV Product failure could lead to injury to persons or loss of life or catastrophic property damage.

IF THE CUSTOMER USES THE DAV PRODUCT IN ANY CRITICAL APPLICATION, THE CUSTOMER – AND NOT TCL, ITS AFFILIATES, ADRS OR ASPS – ASSUME SOLE AND FULL RESPONSIBILITY FOR SUCH USE. TCL RESERVES THE RIGHT TO REFUSE TO SERVICE ANY DAV PRODUCT USED IN A CRITICAL APPLICATION. TCL, ITS AFFILIATES, ADRS AND ASPS HEREBY DISCLAIM ANY AND ALL LIABILITY, DAMAGES AND CONSEQUENCES ARISING OUT OF THE SERVICE OR REFUSAL TO SERVICE SUCH DAV PRODUCT AND FURTHER DISCLAIM ANY AND ALL LIABILITY, CONSEQUENCES AND DAMAGES THAT MAY ARISE OR RESULT FROM THE USE OF THE DAV PRODUCT IN ANY CRITICAL APPLICATIONS.

General Provisions
If and to the extent that any provision of this limited warranty should generally be found to be unenforceable, the unenforceable provision shall be severed from the warranty and deemed not to form part of the warranty. The remaining provisions of this warranty shall be and remain valid and enforceable. If and to the extent that any provision of this limited warranty as it relates to any of the Related Parties is found to be invalid or unenforceable in respect of that party (the “Excluded Party”), the Excluded Party shall be deemed to be severed or excluded from the provision, and the provision shall remain valid, enforceable and applicable in respect of the other or remaining Related Parties.

To the extent permitted by law, this limited warranty shall be governed and construed in accordance with the laws of Ontario.

If there is any inconsistency between this limited warranty, on the one hand, and any statement in the packaging of the DAV Product or in any other document enclosed with, or used in the context of the promotion or sale of, the DAV Product, on the other hand, the provisions of this limited warranty shall prevail.

How to Obtain Warranty Services
If, after following all of the operating instructions in this manual and checking the “Troubleshooting” section, you find that service is needed:

(1) To find the nearest ASP, visit TCL’s web site at www.toshiba.ca, or call toll free 1-800-268-3404.

(2) Present your bill of sale or other proof of purchase to the ASP.

For additional information, visit TCL’s website at www.toshiba.ca.