Plug in

Cable TV

2007/04/03   9:48:48

Please read before using this unit.

CDV210HH8

Owner’s Manual

DVD/CD Player with Video Cassette Recorder

Supplied Accessories
Remote control
(NB183UD)
with two AA batteries
RF cable
(WPZ0901TM002)
Audio/Video cables
(WPZO102TM018 / WPZ0102LTE01)
Owner’s Manual (TVMN23713)

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Precautions

Important Safeguards
1. Do not install the unit near strong magnetic fields.
2. Do not connect the AC outlet of the unit to a power source with surge protectors.
3. Do not use the unit near electronic devices that generate strong radio waves.
4. Do not place the unit on soft foundations such as carpets.
5. Do not place the unit near heat sources such as radiators.

Important Safeguards
1. Do not expose the unit to dust, moisture, or direct sunlight.
2. Do not place the unit in a humid area.
3. Do not place the unit near a water source.
4. Do not place the unit in a location where it will be subjected to strong vibration.
5. Do not place the unit on an unstable surface.

Location and Handling
1. Do not place the unit in a location where it will be subjected to strong vibration.
2. Do not place the unit in a location where it will be subjected to strong heat.
3. Do not place the unit in a location where it will be subjected to strong light.
4. Do not place the unit in a location where it will be subjected to strong dust.
5. Do not place the unit in a location where it will be subjected to strong moisture.

Avoid the Hazards of Electrical Shock and Fire
1. Do not place the unit in a location where it will be subjected to strong electrical shocks.
2. Do not place the unit in a location where it will be subjected to strong fire hazards.
3. Do not place the unit in a location where it will be subjected to strong electrical failures.
4. Do not place the unit in a location where it will be subjected to strong fire failures.

Moisture Condensation Warning
1. Do not place the unit in a location where it will be subjected to strong moisture condensation.
2. Do not place the unit in a location where it will be subjected to strong condensation hazards.
3. Do not place the unit in a location where it will be subjected to strong condensation failures.
4. Do not place the unit in a location where it will be subjected to strong condensation hazards.

About Copyright
1. Do not place the unit in a location where it will be subjected to strong copyright hazards.
2. Do not place the unit in a location where it will be subjected to strong copyright failures.
3. Do not place the unit in a location where it will be subjected to strong copyright failures.
4. Do not place the unit in a location where it will be subjected to strong copyright hazards.

Symbols Used in This Manual
1. Do not place the unit in a location where it will be subjected to strong symbols used in this manual hazards.
2. Do not place the unit in a location where it will be subjected to strong symbols used in this manual failures.
3. Do not place the unit in a location where it will be subjected to strong symbols used in this manual hazards.
4. Do not place the unit in a location where it will be subjected to strong symbols used in this manual failures.

Maintenance
1. Do not place the unit in a location where it will be subjected to strong maintenance hazards.
2. Do not place the unit in a location where it will be subjected to strong maintenance failures.
3. Do not place the unit in a location where it will be subjected to strong maintenance hazards.
4. Do not place the unit in a location where it will be subjected to strong maintenance failures.

About the Video Cassettes and Discs
1. Do not place the unit in a location where it will be subjected to strong video cassettes and discs hazards.
2. Do not place the unit in a location where it will be subjected to strong video cassettes and discs failures.
3. Do not place the unit in a location where it will be subjected to strong video cassettes and discs hazards.
4. Do not place the unit in a location where it will be subjected to strong video cassettes and discs failures.

Playable Video Cassettes
1. Do not place the unit in a location where it will be subjected to strong playable video cassettes hazards.
2. Do not place the unit in a location where it will be subjected to strong playable video cassettes failures.
3. Do not place the unit in a location where it will be subjected to strong playable video cassettes hazards.
4. Do not place the unit in a location where it will be subjected to strong playable video cassettes failures.

Playable Discs
1. Do not place the unit in a location where it will be subjected to strong playable discs hazards.
2. Do not place the unit in a location where it will be subjected to strong playable discs failures.
3. Do not place the unit in a location where it will be subjected to strong playable discs hazards.
4. Do not place the unit in a location where it will be subjected to strong playable discs failures.

Unplayable Discs
1. Do not place the unit in a location where it will be subjected to strong unplayable discs hazards.
2. Do not place the unit in a location where it will be subjected to strong unplayable discs failures.
3. Do not place the unit in a location where it will be subjected to strong unplayable discs hazards.
4. Do not place the unit in a location where it will be subjected to strong unplayable discs failures.

Connections
1. Do not connect the unit to a power source that is not suitable for the unit.
2. Do not connect the unit to a power source with surge protectors.
3. Do not connect the unit to a power source that is not designed for the unit.
4. Do not connect the unit to a power source that is not compatible with the unit.

RF Output Channel
1. Do not connect the unit to a power source that is not suitable for the unit.
2. Do not connect the unit to a power source with surge protectors.
3. Do not connect the unit to a power source that is not designed for the unit.
4. Do not connect the unit to a power source that is not compatible with the unit.

Connection to an Audio System
1. Do not connect the unit to a power source that is not suitable for the unit.
2. Do not connect the unit to a power source with surge protectors.
3. Do not connect the unit to a power source that is not designed for the unit.
4. Do not connect the unit to a power source that is not compatible with the unit.

Connection to a TV
1. Do not connect the unit to a power source that is not suitable for the unit.
2. Do not connect the unit to a power source with surge protectors.
3. Do not connect the unit to a power source that is not designed for the unit.
4. Do not connect the unit to a power source that is not compatible with the unit.

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DVD Playback
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2. Repeat Playback / Repeat A-B Playback
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4. Subtitle Language / Audio Language
5. Camera Angles / Black Level Setting
6. Stereo Sound Mode / Virtual Surround

DVD Setup
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2. DISPLAY Setting
3. AUDIO Setting
4. PARENTAL Setting
5. OTHERS Setting
6. Reset to the Default Setting (Except for PARENTAL Setting)

Troubleshooting Guide
1. Do not use the unit near electronic devices that generate strong radio waves.
2. Do not use the unit near heat sources such as radiators.
3. Do not use the unit near a water source.
4. Do not use the unit near strong vibration.
5. Do not use the unit on an unstable surface.

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3. Turning on the Unit for the First Time
4. How to Use the Remote Control

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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. No user serviceable parts inside. Refer servicing to qualified service personnel.

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

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

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 wastes. Contact your council for details.

**For Customer Use:**

Read carefully the information located at the back of this unit and enter below the Model No. and the Serial No. Retain this information for future reference.

Model No. ____________________

Serial No. ____________________
IMPORTANT SAFEGUARDS

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning - Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

EXCEPTION: A product that is meant for uninterrupted service and, that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose may exclude the reference to unplugging the appliance in the cleaning description otherwise required in item 5.

6. Attachments - Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

7. Water and Moisture - Do not use this video product near water, for example, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and like alike.

8. Accessories - Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product may fall causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacturer’s instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

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

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

11. Grounding or Polarization - This video product is equipped with a polarized alternating-current plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

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

13. Outdoor Antenna Grounding - If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. (Fig. A)

14. Lightning - For added protection for this video product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.

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

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

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

18. Servicing - Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. Damage Requiring Service - Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
   a. When the power-supply cord or plug is damaged.
   b. If liquid has been spilled, or objects have fallen into the video product.
   c. If the video product has been exposed to rain or water.
   d. If the video product does not operate normally by following the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to normal operation.
   e. If the video product has been dropped or damaged in any way.
   f. When the video product exhibits a distinct change in performance this indicates a need for service.

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

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

22. Heat - This video product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
Precautions

Location and Handling
- Do not stand this unit up vertically. Install this unit in a horizontal and stable position. Do not place anything directly on top of this unit. Do not place this unit directly on top of the TV.
- Depending on the TV, noise or disturbance of the picture and/or sound may be generated if this unit is placed too close to your TV. In this case, please ensure enough space between your TV and this unit.
- Do not cover or place this unit in enclosed spaces to prevent excessive temperature build up.
- Do not place this unit in direct sunlight, or near heat sources.
- Depending on the environment, the temperature of this unit may increase slightly. This is not a malfunction.
- Keep this unit away from strong magnetic objects.
- Do not place any object containing water or other liquids on this unit. In the event that liquid should enter the cabinet, unplug this unit immediately and contact the retailer or an authorized service center immediately.
- Do not remove this unit cabinet. Touching parts inside the cabinet could result in electric shock and/or damage to this unit.
- For service and adjustment inside the cabinet, call a qualified dealer or an authorized service center.
- Be sure to remove disc and cassette tape and unplug the AC power cord from the output before carrying this unit.

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.
- Do not put your fingers or objects into the unit cassette holder.

Moisture Condensation Warning
Moisture may form inside this unit under the following conditions:
- Immediately after a heater is turned on.
- In a steamy or humid room.
- When this unit is suddenly moved from a cold to warm environment.
If moisture forms inside this unit, it may not operate properly or damage the cassette tape. In such case, do not use this unit at least for 2 hours until its inside gets dry.

About Copyright
Unauthorized copying, broadcasting, public performance and lending of discs are prohibited.
This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology that is protected by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Symbols Used in This Manual
The following symbols appear in some headings in this manual.

- VHS: Description refers to video cassette tapes.
- DVD: Description refers to DVD-Video.
- CD: Description refers to Audio CD.
- MP3: Description refers to MP3 files.

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

Maintenance

Servicing
- Please refer to relevant topics on the “Troubleshooting Guide” on page 20 before returning the product.
- 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 toll free customer support line found on the cover of this manual 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 continues to perform improperly even after you have referred to the relevant sections and to the “Troubleshooting Guide” in this 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 the disc in its protective case when 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 good quality VHS video head cleaner.
2. If a VHS video head cleaner does not solve the problem, please call our toll free customer support line found on the cover of this manual to locate an authorized service center.

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

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

DOLBY DIGITAL
About the Video Cassettes and Discs

Playable Video Cassettes

Use only cassettes marked **VHS** with this unit.

Playable Discs

<table>
<thead>
<tr>
<th>Playable discs</th>
<th>Mark (logo)</th>
<th>Region code</th>
<th>Recorded signals</th>
<th>Disc size</th>
<th>Disc types</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD-Video</td>
<td>![Video logo]</td>
<td>*1, 2, 4, 6</td>
<td>Digital video (MPEG2)</td>
<td>12 cm or 8 cm</td>
<td></td>
</tr>
<tr>
<td>DVD-RW</td>
<td>![DVD logo]</td>
<td>*1, 3, 4, 5, 6, 7, 8, 9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DVD-R</td>
<td>![DVD logo]</td>
<td>*1, 3, 4, 5, 6, 7, 8, 9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DVD+RW</td>
<td>![RW logo]</td>
<td>*1, 4, 5, 6, 8, 9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DVD+R</td>
<td>![DVD logo]</td>
<td>*1, 4, 5, 6, 8, 9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio CD</td>
<td>![Audio CD logo]</td>
<td>*4, 6</td>
<td>Digital audio</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CD-RW</td>
<td>![CD logo]</td>
<td>*4, 5, 6, 8, 9</td>
<td>Digital audio or MP3</td>
<td>12 cm or 8 cm</td>
<td></td>
</tr>
<tr>
<td>CD-R</td>
<td>![CD logo]</td>
<td>*4, 5, 6, 8, 9</td>
<td>Digital audio or MP3</td>
<td>12 cm or 8 cm</td>
<td></td>
</tr>
</tbody>
</table>

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

If you cannot play back a disc which bears one of the marks above, check the following notes.

*1: This unit conforms to the NTSC color system. Discs recorded in other color systems such as PAL cannot be played back.
*2: Certain DVD-Video discs do not operate as described in this manual due to the intentions of the disc's producers.
*3: Discs Recorded in the VR (Video Recording) format cannot be played back.
*4: Scratched or stained discs may not be played back.
*5: Some discs cannot be played back because of incompatible recording conditions, characteristics of the recorder or special properties of discs.
*6: You can play back discs which bear the marks above. If you use non-standardized discs, this unit may not play them back. Even if they are played back, the sound or video quality will be compromised.
*7: Only the discs recorded in the video format and finalized can be played back.
Unfinalized discs cannot be played back. Depending on the recording status of a disc, the disc may not be played back at all. (the picture or sound may not be smooth, etc.)
*8: If the recorded portion of the disc is too small (less than 2 3/16 inches (55 mm) across), it may not play back properly.
*9: Do not glue paper or put stickers on to the disc. These may damage the disc, and the unit may not read it correctly.

Unplayable Discs

NEVER play back the following discs. Otherwise, malfunction may result!

**DVD-ROM / DVD-Audio / CD-i / Photo CD / Video CD / DVD with region codes other than 1 or ALL / DTS-CD / DVD-ROM for personal computers / CD-ROM for personal computers**

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
Setup

Connections

Please refer to “Basic TV Connection” on the front page before you use this unit.

RF Output Channel

If channel 3 has been already occupied for broadcasting,
1) Set your TV to channel 4.
2) Insert a pre-recorded tape into this unit.
3) Press [SOURCE] on the unit so that the VCR SOURCE light is lit.
   • if noise appears on the TV screen, press [VCR/TV] on the remote control.
5) After a few seconds, press and hold [PLAY ▶] on the unit for 3 seconds.
   • The RF output channel will change to channel 4 from channel 3 and you will see a playback picture.
   • When a picture does not appear on the TV screen, repeat step 4.
6) Press [STOP ■] to stop playback.

Hint
• The RF output channel does not change when you adjust tracking during playback. In case RF output channel changes, you can easily switch it back. Start the playback again then press and hold [PLAY ▶] on the unit for 3 seconds.

Hint for Cable Box or Satellite Box

Select this connection when you want to view or record a scrambled channel. With this connection, channels cannot be changed on the unit. You can view or record ONLY the channels you have selected on the cable box or the satellite box.
• While you are recording, only the recorded channel can be viewed.

To select channels of the cable box or satellite box
1) Turn on the unit by pressing [STANDBY-ON], then press [VCR/TV]. The STANDBY-ON indicator on the front panel will light, then press [SKIP/CH, ▶/◀, △, ▽, ▼] to select channel 3 or 4 (the same channel as the output channel of the cable box or satellite box).
   • If you use the channel 4, you need to change the unit’s RF output to channel 4. Refer to “RF Output Channel”.
2) At the TV, select channel 3 or 4 (the same channel as you have selected at step 1).
3) On the cable box or satellite box, select the channel you want to view or record.

Connection to an Audio System

Method 1
Stereo system

Audio cable (supplied)

Audio

Analog audio input jacks

DVD/VCR

(DVD mode only)

Method 2
Dolby Digital decoder, MD deck or DAT deck

Audio Coaxial Digital cable (commercially available)

Connection
Setting

Connecting to a Dolby Digital decoder for Dolby Digital audio output.

BITSTREAM

Connecting to other equipment (an MD deck or DAT deck etc.) without Dolby Digital decoder.

PCM

* To complete these settings, refer to pages 20-21.

Hint
• The audio source on a disc in a Dolby Digital Multi channel surround format cannot be recorded as digital sound by an MD or DAT deck.
• By hooking this unit up to a Multi channel Dolby Digital decoder, you can enjoy high-quality Dolby Digital Multi channel surround sound as heard in the movie theaters.
• Playing a DVD using incorrect settings may generate noise distortion and may also damage the speakers.
### Connection to a TV

**Basic Audio**

- **Method 1**
  - Good picture
  - Video cable (supplied)

- **Method 2**
  - Better picture
  - S-Video cable (commercially available)

- **Method 3**
  - Best picture
  - Component Video cable (commercially available)

**Hint**

- Connect this unit directly to the TV. If the Audio/Video cables are connected to a VCR, pictures may be distorted due to the copy protection system.
- The COAXIAL, DVD AUDIO OUT, S-VIDEO OUT and COMPONENT VIDEO OUT jacks are only useful in DVD mode.

**After you have completed connections**

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.

**INPUT MODES FOR COMMON TV BRANDS**

<table>
<thead>
<tr>
<th>Brand</th>
<th>Input Modes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admiral</td>
<td>AUX</td>
</tr>
<tr>
<td>Curtis Mathis</td>
<td>LINE1, LINE2, 00, 90, 91, 92, 93</td>
</tr>
<tr>
<td>GE</td>
<td>INPUT, TV/INPUT, 00, 90, 91, 92, 93</td>
</tr>
<tr>
<td>Hitachi</td>
<td>INPUT, AUX</td>
</tr>
<tr>
<td>JVC</td>
<td>VIDEO, VIDEO1, VIDEO2, VIDEO3</td>
</tr>
<tr>
<td>Kenwood</td>
<td>AUX</td>
</tr>
<tr>
<td>LXI-Series</td>
<td>00</td>
</tr>
<tr>
<td>Magnavox</td>
<td>AUX CHANNEL</td>
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<td>Panasonic</td>
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</tr>
<tr>
<td>RCA</td>
<td>INPUT, TV/VCR, 00, 90, 91, 92, 93</td>
</tr>
<tr>
<td>Samsung</td>
<td>TV/VIDEO</td>
</tr>
<tr>
<td>Sanyo</td>
<td>VIDEO</td>
</tr>
<tr>
<td>Sharp</td>
<td>00</td>
</tr>
<tr>
<td>Sony</td>
<td>VIDEO1, VIDEO2, VIDEO3</td>
</tr>
<tr>
<td>Toshiba</td>
<td>TV/GAME</td>
</tr>
<tr>
<td>Zenith</td>
<td>00</td>
</tr>
</tbody>
</table>
Preparation for Use

Turn on the Unit for the First Time

Operations described in this manual are mainly based on the remote control.

1 Turn on the TV and set it to channel 3.
   • If channel 3 has been already occupied for broadcasting, see “RF Output Channel” section on page 6.

2 Select your language when tuning this unit on for the first time.
   Then press [►] to go to next step.

3 Press [►] to start Auto Set Up.

Do you connect the cable from the cable box or the satellite box to the unit’s ANT-IN jack?

Yes Press [MENU] to exit.
   • Refer to “Hint for Cable Box or Satellite Box” section on page 6.

No Please wait for a few minutes. After scanning...
   • The tuner stops on the lowest memorized channel.
   • You can select only the channels memorized in this unit by using [SKIP/CH>>, [>] or [CHANNEL,]>].
   • If AUTO SET UP” appears on the TV screen again, check the cable connections. Then, press [►] once again.

Hint
   • Repeat these steps only if either there was a power failure or this unit has been unplugged for more than 30 seconds.

To Select a Channel

You can select a channel by using the number buttons or [SKIP/CH>>, [>] or [CHANNEL,]>.

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)

To Add or Delete Channels

1 Press [MENU] to select “CHANNEL SET UP”.
   Then press [►] to go to next step.

   • If the clock is not set, the “CLOCK SET” screen appears when you press [MENU]. In this case, press [MENU] again.

2 Select “MANUAL SET UP”.
   Then press [►] to go to next step.

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 [MENU] until the main menu appears.
2) Select “CHANNEL SET UP” by using [►]/[◄], then press [►].
3) Select “AUTO SET UP” by using [►]/[◄], then press [►]. After scanning, the tuner stops on the lowest memorized channel.

To Change the On-Screen Language

1) Press [MENU] until the main menu appears.
2) Select “LANGUAGE SELECT” by using [►]/[◄], then press [►].
3) Select “ENGLISH”, “FRANCAIS” or “ESPANOL” by using [►]/[◄], then press [CLEAR/C.RESET].

Hint
   • If you accidentally select Spanish or French and need English: Press [CLEAR/C.RESET] and select ENGLISH. Finally, press [CLEAR/C.RESET].
   • To add or delete channels in this unit, [SKIP/CH>>, [>] or [CHANNEL,]>,] button works on the channel number memorized in this unit, [►] works on all channels.

Clock Setup

1) Press [MENU] and select “CLOCK SET”.
   Then press [►] to go to next step.

   • If the clock is not set, the CLOCK SET screen appears when you press [MENU]. In this case, go to step 2.

2) Select the current month.
   Then press [►] to go to next step.

3) Select the current day.
   Then press [►] to go to next step.

4) Select the current year.
   Then press [►] to go to next step.

5) Select the current hour.
   Then press [►] to go to next step.

6) Select the current minute.
   Then press [►] to go to next step.

7) Select “AM” or “PM”.

8) To exit the CLOCK SET screen

Hint
   • To change the clock setting, press [◄] (during steps 2 to 7).
   • Your clock setting will be lost if either there is a power failure or this unit has been unplugged for more than 30 seconds.
**Function Overview**

### Front Panel Indicator

- **Lights up during a recording.**
- **Blinks when a recording is paused.**
- **Lights up when the disc is inserted.**
- **Lights up when the inserted disc is being played back.**
- **Blinks when an unacceptable disc is inserted.**
- **Lights up when power is on.**
- **Lights up when this unit is in the DVD mode.**
- **Lights up when this unit is in the VCR mode.**
- **Lights up when the Timer Recording or an OTR recording has been set.**

### VCR / DVD Switching

You must first select which component you wish to operate with [SOURCE], as this product is a combination of a VCR and a DVD player.

**VCR MODE**

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

**DVD MODE**

Press [DVD] on the remote control.
(Verify that the DVD SOURCE light is lit.)

**Hint**

- Pressing only [SOURCE] on the front panel DOES NOT switch the mode of the remote control. You MUST select the correct mode on the remote control.

### Front & Rear Terminals

1: **DVD AUDIO OUT (analog) jacks**
Connect the supplied audio cable here through the audio in jacks of a television or other audio equipment. (DVD only)

2: **DVD/VCR AUDIO OUT jacks**
Connect the supplied audio cable here through the audio in jacks of a television or other audio equipment.

3: **AUDIO IN jack**
Connect audio cable coming from the audio out jack of a camcorder, another VCR or an audio source here.

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

5: **ANT-OUT jack**
Connect the supplied RF cable to the antenna input jack of a television.

6: **VIDEO IN jack**
Connect a cable coming from the video out jack of a camcorder, another VCR or an audio-visual source (laser disc player, video disc player, etc.) here.

7: **DVD/VCR VIDEO OUT jack**
Connect the supplied video cable here through the video in jack of a television.

8: **COMPONENT VIDEO OUT jacks**
Connect optional COMPONENT VIDEO cables here through the COMPONENT VIDEO in jacks of a television. (DVD only)

9: **S-VIDEO OUT jack**
Connect an optional S-VIDEO cable here through the S-VIDEO in jack of a television. (DVD only)

10: **DIGITAL AUDIO OUT COAXIAL jack**
Connect an optional coaxial digital audio cable here through the coaxial digital audio in jack of a decoder or audio receiver. (DVD only)
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.

Keep in mind the following when using the remote control:
- Make sure that there is no obstacle between the remote control and the remote sensor 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. 16 feet (5m) within 30°
  - Above: approx. 16 feet (5m) within 15°
  - Below: approx. 10 feet (3m) within 30°

Hint
- 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.
VCR Functions

Playback

Before:
Turn on the TV and set it to channel 3.
- If channel 3 has been already occupied for broadcasting, see "RF Output Channel" section on page 6.

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

Other Operations

To cue or review picture during playback (Picture Search)
Use [F.FWD] or [REW] during playback.
- 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 [SKIP/CH.], [G/H/L] (or [CHANNEL A/V]).
- If the picture is distorted or rolling vertically, adjust the vertical hold control on your TV if equipped.

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

Index Search

You can skip the program backward and forward by the Index Mark.


1 To select Index Mark
2 To rewind
3 To fast forward
4 After searching, it automatically starts playback.

Time Search

You can search backward and forward a specific length of time on a tape.

1 Press [SEARCH MODE] twice.
2 Select the desired length of time for fast forwarding or rewinding.
3 To rewind
4 To fast forward

Hint
- Still/Slow mode will be automatically canceled after 5 minutes to prevent damage to the tape and the video head.
- To return to playback from the Picture Search/Still/Slow mode, press [PLAY ].

Counter Reset

Press [CLEAR/C.RESET].

Hint for Index Search & Time Search
- The Index Mark will be made automatically at the beginning of each recording.
- The time gap between Index Marks should be greater than 1 minute for SP mode, 2 minutes for LP mode and 3 minutes for SLP mode.

Hint
- The Index Mark will be made automatically at the beginning of each recording.
- The time gap between Index Marks should be greater than 1 minute for SP mode, 2 minutes for LP mode and 3 minutes for SLP mode.
**Auto Repeat**

This function will playback a tape repeatedly from the beginning when the tape reaches the end.

1. Press [MENU], and choose “AUTO REPEAT” during playback.

**Hint**
- To cancel Auto Repeat, follow step 1 above. Then, press [ ] so that “OFF” appears beside “AUTO REPEAT”. Press [CLEAR/C.RESET] to exit.
- If menu remains on the TV screen after step 2, press [CLEAR/C.RESET] to exit.
- The Auto Repeat playback will start automatically if you select “AUTO REPEAT” to “ON” in the stop mode.

**Recording & OTR (One Touch Recording)**

Before: Turn on the TV and set it to channel 3.
- If channel 3 has been already occupied for broadcasting, see “RF Output Channel” section on page 6.

1. Insert a cassette with tab into this unit.
2. Select the channel to record. 
3. Press [SPEED] to select the desired tape speed. 
4. Press [RECORD] repeatedly to select the desired recording length. 
5. To stop recording
6. To eject the recorded cassette

**Timer Recording**

- Insert a tape with its record tab into the unit.

1. Press [MENU], then select “TIMER PROGRAMMING”. 
2. Select an empty program number. Then press [ ] to go to next step.
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.
5. Select the desired start time (hour). Then press [ ] to go to next step.

**Accidental erasure prevention**

To prevent accidental recording on a recorded cassette, remove its record tab. To record on it later, cover the hole with adhesive tape.

You CANNOT dub a DVD to a videotape.

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

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

**Hint**
- If you want to watch one channel while recording another...
  1) If noise appears on the TV screen, press [VCR/TV] to put the unit in TV position.
  2) You cannot record one channel while watching another if you have a cable box or satellite receiver.

- If you want to watch one channel while recording another...
  1) If noise appears on the TV screen, press [VCR/TV] to put the unit in TV position.
  2) You cannot record one channel while watching another if you have a cable box or satellite receiver.
6 Select “AM” or “PM”. Then press [►] to go to next step.

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

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

9 Select the desired recording speed, then press [CLEAR/C.RESET].

- If you have connected the unit to a cable box or satellite box as the connection on page 6, select the VCR to channel 3 or 4 (the RF output channel of the VCR). Then, select the desired channel at the cable box or satellite box. Leave the cable box or satellite box on for Timer Recording.

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

- TIMER indicator on the front panel lights up. The unit will change to the DVD mode.

**Hint**

- To go back one step, press [◄] during steps 3 to 9.

**To Check, Correct or Cancel a Timer Program**

2) Select main menu by pressing [MENU].
3) Select “TIMER PROGRAMMING” by using [▲/▼], then press [►].
4) Select the program number which you want to check by using [▲/▼]. The details of the program you selected will appear on the TV screen.
   - Go to the digit you want to change by using [◄/►]. Then, enter correct numbers by using [▲/▼].
   - You may cancel the entire program by pressing [◄] while the program number blinks.
6) Press [SUBTITLE/T-SET] to return to timer standby mode.

**To cancel a Timer Recording in progress**

Press [STOP/EJECT ▼ ▲] on the unit.

**Hints for OTR and Timer Recording**

- Press [VCR] on the remote control before you set Timer Recording. Make sure the remote control is in the VCR mode, then press [SUBTITLE/T-SET].
- If a tape is not in the unit or does not have the record tab, TIMER indicator on the front panel blinks and Timer Recording cannot be performed. Please insert a recordable tape.
- When Timer Recordings are set, TIMER indicator on the front panel lights up. To use the VCR as usual until the time for the recording, press [SUBTITLE/T-SET] so that TIMER indicator light turns off. Press [VCR/TV] to choose the VCR position. Select either VCR or DVD mode, then continue with the other features as described in this manual.

**After an OTR or a Timer Recording has been set, this unit operates as follows:**

- If a tape runs out before an OTR or a Timer Recording is finished, the unit ejects the tape. Press [SUBTITLE/T-SET] on the remote control or [STOP/EJECT ▼ ▲] 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 [SUBTITLE/T-SET] is pressed.
- To cancel the timer standby mode, press [SUBTITLE/T-SET] on the remote control or [STOP/EJECT ▼ ▲] on the unit, then press [VCR] to activate the VCR function again.
- The mode of the unit and the remote control may differ (VCR mode or DVD mode) when you set Timer Recording or after you canceled Timer Recording. Press [VCR] or [DVD] on the remote control to select your desired mode before you operate.

**When an OTR 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 indicator on the front panel lights to indicate the unit is in the timer standby mode.
- TIMER indicator on the front panel flashes if there are no more Timer Recordings on standby.
- If Auto Power Off for DVD has NOT been activated, the unit switches to the DVD mode and all the VCR functions will be unavailable.
   All the DVD functions are available during OTR, timer standby mode and Timer Recording.
   Press [STOP/EJECT ▼ ▲] on the front panel or [SUBTITLE/T-SET] on the remote control to use the VCR when the unit is off.
   Press [SOURCE] on the front panel or [VCR] on the remote control to use the VCR when the unit is on. In case Timer Recording is in standby mode, press [STOP/EJECT ▼ ▲] on the front panel or [SUBTITLE/T-SET] on the remote control, and then press [SOURCE] on the front panel or [VCR] on the remote control.

**If you want to use the DVD player during a Timer Recording or while TIMER indicator on the front panel is on or blinking,**

- Press [STANDBY-ON] 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 and all timer settings will be lost.
### Copying a Video Tape

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

1. Insert a pre-recorded tape into another VCR for playing.
2. Insert a tape with its record tab into this unit for recording.
3. Press [SPEED] on the remote control of the recording unit to select the desired recording speed (SP/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 [CHANNEL ▲/▼] 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 [CHANNEL ▲/▼] on this unit.
5. Press [RECORD] on the recording unit.
6. Begin playback of the tape in another source.
7. To stop recording, press [STOP/EJECT ▶ △] on the recording unit, then stop playback of the tape in another source.

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

Playback

Before: Turn on the TV, amplifier and any other equipment which are connected to this unit. Make sure the TV and audio receiver (commercially available) are set to the correct channel.

Press [STANDBY-ON] to turn on the DVD/CD Player.
Press [OPEN/CLOSE ▲] and insert a disc with label facing up.
Press [PLAY ▶] to start playback.
Press [STOP ■] to stop playback.

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

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

Resume

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

Hint
• To cancel resume, press [STOP ■] one more time in the stop mode.
• The resume information will be kept even when unit is in standby mode.

Paused and Step-by-Step Playback

To continue playback, press [PLAY ▶].

The disc goes forward by one frame each time [PAUSE ▼] is pressed in the pause mode.
To continue playback, press [PLAY ▶].

Hint
• Set "STILL MODE" to "FIELD" in the DISPLAY menu if pictures in the pause mode are blurred. (Refer to pages 20-21.)

To use [PREV ◄ / ◄◄ / NEXT ► / ►►] on this unit

Press once to skip chapters or tracks to a desired point.

Fast Forward / Reverse Search

Use [◄◄] or [◄◄◄] repeatedly during playback to select the required forward or reverse speed.
To use [PREV ◄ / ◄◄ / NEXT ► / ►►] on this unit

Pressing and holding [PREV ◄ / ◄◄] or [NEXT ► / ►►] on this unit will also change forward or reverse playback speed.
To continue playback, press [PLAY ▶].

Hint
• Fast forward or reverse search speed is different depending on the disc. Approximate speed is 1(x2), 2(x4), 3(x8), 4(x16) and 5(x32).

Slow Forward Search

Press [◄◄] repeatedly in the pause mode to select the required forward speed.
To use [NEXT ► / ►►] on this unit

Pressing and holding [NEXT ► / ►►] on this unit in the pause mode will also change forward playback speed.
To continue playback, press [PLAY ▶].

Hint
• Slow forward speed is different depending on the disc. Approximate speed is 1(1/32), 2(1/16), 3(1/8), 4(1/4) and 5(1/2).
• Set "STILL MODE" to "FIELD" in the DISPLAY menu if pictures in the slow playback mode are blurred. (Refer to pages 20-21.)
• The reverse of slow playback is not available.

Zoom

1) Press [ZOOM] repeatedly during playback to select the required zoom factor: x2, x3, x4, x1/2 or OFF.
2) Use [ ▲ / ▼ / ◄ / ► ] to slide the zoomed picture across the screen.
3) To exit zoom function, press [ZOOM] repeatedly to select OFF.

Hint
• Zooming function does not work while the disc menu is displayed.
• Some parts of the picture may not be zoomed depending on the disc status.
MP3 Playback

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

Insert an MP3-format disc, then the file list will automatically appear on the TV screen.

1. Select the desired folder from the list on the left side in the file list.

2. Select the desired file from the list on the right side in the file list.

3. Refer to “Resume” on page 15.

Search Functions

Using Track Search

Using [SEARCH MODE]

1. Press [SEARCH MODE] on the remote controller.

2. Press the number buttons within 5 seconds (e.g. for track 3, press [3] and [ENTER]).

3. Press [ENTER].

- To play a double-digit track, press the track number directly for CDs (e.g. track 3, press [3] and [ENTER]).
- To play a triple-digit track, press the track number directly for MP3 (e.g. for track 26, press [2], [6] and [ENTER]).

Using [SKIP/CH., ▲/▼, ◀/▶]  

1. Current Track

Hint
- On CDs, Track Search is not available for Programmed or Random Playback.

Using Title / Chapter Search

Using [SEARCH MODE]

1. Press [SEARCH MODE] until the title search function is activated.

2. Press the number buttons within 5 seconds for the title search.

3. Press [ENTER].

- For the chapter search, press cursor [▲] to highlight ▼.

Using Time Search

Using [SEARCH MODE]

1. Press [SEARCH MODE] on the remote controller.

2. Press the number buttons within 5 seconds (e.g. for time 0:15:00, press [1], [5], [0] and [ENTER]).

3. Press [ENTER].

Hint
- To play time 0:15:00, press [1], [5], [0] of the number buttons.
- Press [CLEAR/C.RESET] to erase the incorrect input at step 2.
- On DVDs/CDs, Time Search is not available for Programmed or Random Playback.

Hint
- Depending on the disc being played, this function can also be performed by directly entering the desired chapter number with the number buttons. Refer to the manual accompanying the disc.
- On DVDs/CDs, Title/Chapter Search is not available for Programmed or Random playback.

DVD Functions

Search Functions

Using Track Search

Using [SEARCH MODE]

1. Press [SEARCH MODE] on the remote controller.

2. Press the number buttons within 5 seconds (e.g. for track 3, press [3] and [ENTER]).

3. Press [ENTER].

- To play a double-digit track, press the track number directly for CDs (e.g. for track 3, press [3] and [ENTER]).
- To play a triple-digit track, press the track number directly for MP3 (e.g. for track 26, press [2], [6] and [ENTER]).

Using [SKIP/CH., ▲/▼, ◀/▶]  

1. Current Track

Hint
- On CDs, Track Search is not available for Programmed or Random Playback.

Using Title / Chapter Search

Using [SEARCH MODE]

1. Press [SEARCH MODE] until the title search function is activated.

2. Press the number buttons within 5 seconds for the title search.

3. Press [ENTER].

- For the chapter search, press cursor [▲] to highlight ▼.

Using Time Search

Using [SEARCH MODE]

1. Press [SEARCH MODE] on the remote controller.

2. Press the number buttons within 5 seconds (e.g. for time 0:15:00, press [1], [5], [0] and [ENTER]).

3. Press [ENTER].

Hint
- To play time 0:15:00, press [1], [5], [0] of the number buttons.
- Press [CLEAR/C.RESET] to erase the incorrect input at step 2.
- On DVDs/CDs, Time Search is not available for Programmed or Random Playback.

Hint
- Depending on the disc being played, this function can also be performed by directly entering the desired chapter number with the number buttons. Refer to the manual accompanying the disc.
- On DVDs/CDs, Title/Chapter Search is not available for Programmed or Random playback.
On-Screen Display

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

Hint
• Some DVD discs will not allow you to set chapter playback correctly.

DVD Functions

- 17 -
Repeat / Random / Programmed Playback

Repeat Playback
Repeat function is available only during playback.

1

Repeat playback may not function with some discs or during repeat A-B playback.

Repeat A-B Playback
At your desired starting point (A)

At your desired ending point (B)

Hint
• Repeat setting (except “ALL”) will be cleared when moving to another title, chapter, track or group.

Random Playback
This function shuffles the playing order of chapters or tracks instead of playback in sequence.

1

2

Hint
• To exit the sequence, press [A-B] so that OFF appears.
• To cancel Point A, press [CLEAR/C.RESET] at step 1.
• This function does not work in the other repeat modes.

Hint
• During random playback, using [SKIP/CH.►/◄] allows you to search chapters or tracks randomly.
• During DVD Random Playback, you can play chapters in the current title randomly.
• Some DVD discs will not allow you to set random playback.

Programmed Playback
You may determine the order in which chapters or tracks will play.

1

2

3

Hint
• To erase all programs at once, select “ALL CLEAR” and press [ENTER] or press [CLEAR/C.RESET] at step 2.
• If the title, chapter, folder, track number is incorrect, the programmed number you entered will be skipped during programmed playback.
• While a program is being played back, [STOP] works as follows:
  • Press [STOP] and [PLAY►] next, so that the programmed playback restarts.
  • 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 is removed or the power is turned off.)
• Some DVD discs will not allow you to set programmed playback.

Hi
During random playback, you cannot go back to the previous track, using [SKIP/CH.►/◄] allows you to search chapters or tracks randomly.
• During DVD Random Playback, you can play chapters in the current title randomly.
• Some DVD discs will not allow you to set random playback.

Hint
• Repeat setting (except “ALL”) will be cleared when moving to another title, chapter, track or group.
• Repeat playback may not function with some discs or during repeat A-B playback.
Special Settings

Subtitle Language

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

Each time you press [SUBTITLE/T-SET], subtitle language changes as example below.

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

Audio Language

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

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

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

Hint

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

Camera Angles

Some DVD discs may contain scenes which have been shot simultaneously from various angles. You can change the camera angle if the icon appears on the screen. If the "ANGLE ICON" setting is "OFF" in the OTHERS menu, the icon will not appear. (Refer to pages 20-22.)

Each time you press [ANGLE] or [◄/ ►], camera angle changes.

Black Level Setting

Adjust the Black Level Setting to make the dark areas of the TV picture brighter.

ON: Makes the dark areas brighter.
OFF: Shows the original picture as recorded.

Hint

- Virtual Surround is available only when the DVD player is connected to a TV or stereo using the red and white AUDIO OUT jacks on the DVD player. Also, select the SETUP menu to use Dolby digital connection (COAXIAL), and setting in PCM mode.

Stereo Sound Mode

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

Each time you press [AUDIO] or [◄/ ►], sound mode changes as example below.

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

Virtual Surround

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

Press twice. (once for CD and MP3)

Using [◄/ ►], you can select the desired sound mode.

3D: Sound mode suitable for setting stereophonic audio
JAZZ: Sound mode suitable for Jazz music
ROCK: Sound mode suitable for Rock music
POP: Sound mode suitable for Pop music
CLASSIC: Sound mode suitable for Classic music
OFF: No effects (original sound)

Hint

- Virtual Surround is available only when using the red and white AUDIO OUT jacks on the DVD player. Also, select the SETUP menu to use Dolby digital connection (COAXIAL), and setting in PCM mode.
You can change the settings of the unit.

1. Press [SETUP].

2. Select the desired item.

   - LANGUAGE menu
   - DISPLAY menu
   - AUDIO menu
   - PARENTAL menu
   - OTHERS menu
   - INITIALIZE menu

3. Select the desired item.

   - LANGUAGE menu

4. Select the desired language.

   - AUDIO: -1 ~ 2
     (Default: ORIGINAL)
     Sets the audio language.

   - SUBTITLE: -1 ~ 2
     (Default: OFF)
     Sets the subtitle language.

   - DISC MENU: -1
     (Default: ENGLISH)
     Sets the language in DVD menu.

   - PLAYER MENU
     (Default: ENGLISH)
     Sets the language for the On-Screen Display.

5. To exit the menu

Hint

1. Language options are not available with some discs.
2. If OTHERS is selected in the AUDIO, SUBTITLE or DISC MENU screen, select the desired language using [4] and press [ENTER].
3. Only the languages supported by the disc can be selected.
4. Language setting for Audio and Subtitle are not available with some discs. Then press [AUDIO] and [SUBTITLE/T-SET]. Details are on page 19.
**B  DISPLAY Setting**

You can change the display functions. Follow steps 1 to 2 on page 20.

3  Select the desired item.

**Display menu**

**TV Aspect:**
- Select "4:3 LETTER BOX", so that black bars may appear on the top and bottom of the screen.
- Select "4:3 PAN & SCAN" for a full height picture with both sides adjusted.
- Select "16:9 WIDE" if a wide screen TV is connected to this unit.

**Hint**

4  **TV Aspect:** (Default: 4:3 LETTER BOX)
See Hint on the left.

**Still Mode:** (Default: AUTO)
See Hint on the right.

5  To exit the menu

**Hint**

STILL MODE:
- Select "AUTO" usually.
- If you select "AUTO", it automatically selects the best resolution setting (FRAME or FIELD) based on the data characteristics of the pictures. (default).
- If you select "FIELD", the picture in the still mode will be stabilized.
- If you select "FRAME", the picture in the still mode will be highly defined.
- An individual picture on the TV screen is called a "frame", which consists of two separate images called a "field".
- Some pictures may be blurred if you select "AUTO" in the still mode due to their data characteristics.

**C  AUDIO Setting**

Choose the appropriate audio settings for your equipment. It only affects during the playback of DVD discs. Follow steps 1 to 2 on page 20.

3  Select the desired item.

**Audio menu**

4  **DRC (Dynamic Range Control):** (Default: ON)
Set to "ON" to compress the range between soft and loud sounds.

**Down Sampling:** (Default: ON)
Set to "ON" when outputting in 48kHz. Set to "OFF" when outputting the original sound.

**Dolby Digital:** (Default: BITSTREAM)
Set to "BITSTREAM" when the unit is connected to a Dolby Digital decoder.
- BITSTREAM: Outputs Dolby Digital Signals.
- PCM: Convert the Dolby Digital into PCM (2 channel).

5  To exit the menu

**Hint**

DRC:
- This function is available only on discs which are recorded in the Dolby Digital format.

DOWN SAMPLING:
- When playing discs with copyright protection, the sound will be downsampled at 48kHz, even if you set to "OFF".
**PARENTAL Setting**

Parental Control limits the viewing of discs that exceed your settings. (An incorrect password will not be acceptable.) This feature prevents your children from viewing inappropriate materials.

**Parental Levels**

Parental Level allows you to set the rating levels of your DVD discs. Playback will stop if the ratings exceed the levels you set. Follow steps 1 to 2 on page 20.

1. Press [ENTER], and then select “YES”.

2. Enter your desired four-digit password.

3. Enter a new password again.

4. Select “LEVEL”.

5. Select the desired level, and press [ENTER].

6. Select the desired level, and press [ENTER].

7. To exit the menu

---

**TIPS FOR LEVELS**

- **8 [ADULT]**: DVD software of any grades (adult/general/children) can be played back.
- **7 [NC-17]**: No one under 17 admitted
- **6 [R]**: Restricted; under 17 requires accompanying parent or adult guardian
- **5 [PGR]**: Parental Guidance Recommended
- **4 [PG13]**: Unsuitable for children under 13
- **3 [PG]**: Parental Guidance suggested
- **2 [G]**: General Audience
- **1 [KID SAFE]**: Suitable for children

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**OTHERS Setting**

You can change the other functions. Follow steps 1 to 2 on page 20.

1. Select the desired item.

2. Set to “ON” to show the angle icon when multiple camera angles are available during DVD playback.

3. Set to “ON” to turn this unit off automatically after 30 minutes of no use.

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**Hint**

- Record the password in case you forget it.
- If you forget the password, press [4], [7], [3], [7] at step 3 above, then enter your new password. Password will be cleared and parental levels will be set to 8 [ADULT].
Troubleshooting Guide

If this unit does not perform properly when operated as instructed in this Owner's Manual, check this unit consulting the following checklist.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power.</td>
<td>• Make sure the power plug is connected to an AC outlet. • Make sure the power is turned on.</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. • Check the batteries in the remote control. • Aim the remote control directly at the sensor. • If necessary, remove all the obstacles between the sensor and the remote control.</td>
</tr>
<tr>
<td>Poor picture or noise.</td>
<td>• Interference signal may be received. Change the position and orientation of the unit.</td>
</tr>
<tr>
<td>Timer recording is impossible.</td>
<td>• Make sure the Timer Recording is set correctly. • Make sure the VCR clock is set correctly.</td>
</tr>
<tr>
<td>Cannot go into record mode.</td>
<td>• Make sure the tape has a record tab. If needed, cover the hole with adhesive tape. • Activate this unit in VCR mode. Press [VCR] on the remote control so that the VCR SOURCE light is lit.</td>
</tr>
<tr>
<td>No or poor, playback picture.</td>
<td>• Change the RF output channel to CH4. Then select the same channel on the TV. • 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. See the front page and page 6. • Press [VCR] on the remote control to activate it in the VCR mode. Check if the VCR SOURCE light is lit, then set it to the TV position by pressing [VCR].</td>
</tr>
<tr>
<td>Video or color fades in and out when making a copy of a video tape.</td>
<td>• You cannot copy a copyrighted video tape. You are experiencing copy guard protection.</td>
</tr>
<tr>
<td>Cannot remove the 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>No picture.</td>
<td>• Connect the video cable firmly. • Insert a correct video disc that plays on this unit. • Press [DVD] on the remote control. Check if the DVD SOURCE light is lit. Then try other DVD features.</td>
</tr>
<tr>
<td>Disc cannot be played.</td>
<td>• Insert the disc. • Clean the disc. • Place the disc correctly with the label side up. • Cancel the parental lock or change the control levels. • Handle a disc with special care so that it does not have fingerprints, scratches, or dusts on its surface.</td>
</tr>
<tr>
<td>No sound.</td>
<td>• Connect the audio cables firmly. • Turn the power of the audio component on. • Correct the audio output settings. • Correct the input settings on the audio component.</td>
</tr>
<tr>
<td>No DTS audio is output.</td>
<td>• This unit does not support DTS audio. • This is not a malfunction.</td>
</tr>
<tr>
<td>Distorted picture.</td>
<td>• The selected language is not available for audio or subtitles on the DVD. • This is not a malfunction.</td>
</tr>
<tr>
<td>Audio or subtitle language does not match the setup.</td>
<td>• The camera angle cannot be changed. • The DVD does not contain sequences recorded from different camera angles. • This is not a malfunction.</td>
</tr>
<tr>
<td>The camera angle cannot be changed.</td>
<td>• The DVD does not contain audio source or subtitles in the selected language. • This is not a malfunction.</td>
</tr>
<tr>
<td>Audio or subtitle language cannot be changed.</td>
<td>• That operation is prohibited by this unit or the disc. • This is not a malfunction.</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.
• Playback from a desired track and random playback are not available during program playback.
• Some functions are prohibited on some discs.
Specifications

**Video Heads:**
- Four Heads

**Output signal format:**
- NTSC color

**Power source:**
- 120 V AC +/- 10%, 60 Hz +/- 0.5%

**Power consumption:**
- 21 W (standby: 3.8W)

**Dimensions:**
- W : 17 3/16" (435mm)
- H : 3 3/4" (94mm)
- D : 9 3/16" (233mm)

**Weight:**
- Approx 6.0lbs (2.7kg)

- Designs and specifications are subject to change without notice.
- If there is a discrepancy between languages, the default language will be English.

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**PHILCO LIMITED WARRANTY**

FUNAI CORP. will repair this product, free of charge in the CANADA in the event of defect in materials or workmanship as follows:

**DURATION:**
- PARTS: FUNAI CORP. will provide parts to replace defective parts without charge for one (1) year from the date of original retail purchase. Certain parts are excluded from this warranty.
- LABOR: FUNAI CORP. will provide the labor without charge for a period of ninety (90) days from the date of original retail purchase.

**LIMITS AND EXCLUSIONS:**
- This warranty is extended only to the original retail purchaser. A purchase receipt or other proof of original retail purchase will be required together with the product to obtain service under this warranty.
- This warranty shall not be extended to any other person or transferee.
- This warranty is void and of no effect if any serial numbers on the product are altered, replaced, defaced, missing or if service was attempted by an unauthorized service center. This limited warranty does not apply to any product not purchased and used in CANADA.
- This product is produced for home use and this warranty only covers failures due to defects in material or workmanship which occurs during normal use. It does not cover damage which occurs in shipment, or failures which are caused by repairs, alterations or product not supplied by FUNAI CORP., or damage which results from accident, misuse, abuse, mishandling, misapplication, alteration, faulty installation, improper maintenance, commercial use such as hotel, rental or office use of this product or damage which results from fire, flood, lightning or other acts of God.
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- To locate your nearest AUTHORIZED SERVICE CENTER or for general service inquiries, please contact us at:

FUNAI CORPORATION
Customer Service
Tel :1-800-414-1053
http://www.funai-corp.com
19900 Van Ness Avenue, Torrance, CA 90501
Quick Use Guide

1 Connections
Please refer to “Basic TV Connection” on the front page before you use this unit.

RF Output Channel
If channel 3 has been already occupied for broadcasting,
1) Set your TV to channel 4.
2) Insert a pre-recorded tape into this unit.
3) Press [SOURCE] on the unit so that the VCR SOURCE light is lit.
   • If noise appears on the TV screen, press [VCR/TV] on the remote control.
5) After a few seconds, press and hold [PLAY] on the unit for 3 seconds.
   • The RF output channel will change to channel 4 from channel 3 and you will see a playback picture.
   • When a picture does not appear on the TV screen, repeat step 4.
6) Press [STOP] to stop playback.

2 Installing the Batteries for the Remote Control

3 VCR/DVD Switching
Press [VCR] on the remote control. (Verify that the VCR SOURCE light is lit.)

DVD MODE
Press [DVD] on the remote control. (Verify that the DVD SOURCE light is lit.)

Hint
• Pressing only [SOURCE] on the front panel DOES NOT switch the mode of the remote control. You MUST select the correct mode on the remote control.

4 Turn on the Unit for the First Time
1) Turn on the TV and set it to channel 3.
   • If channel 3 has been already occupied for broadcasting, see “RF Output Channel” section.
2) Select your language when turning this unit on for the first time.
   Then press [ ] to go to next step.

5 Clock Setup
1) Press [MENU] and select “CLOCK SET”. Then press [ ] to go to next step.
   • If the clock is not set, the CLOCK SET screen appears when you press [MENU]. In this case, go to step 2.
2) Select the current month. Then press [ ] to go to next step.
3) Select the current day. Then press [ ] to go to next step.
4) Select the current year. Then press [ ] to go to next step.
5) Select the current hour. Then press [ ] to go to next step.
6) Select the current minute. Then press [ ] to go to next step.
7) Select “AM” or “PM”.
8) To exit the CLOCK SET screen

3 Press [ ] to start Auto Set Up.

Do you connect the cable from the cable box or the satellite box to the unit's ANT-IN jack?

Yes Press [MENU] to exit.

No Please wait for a few minutes.
After scanning...
• The tuner stops on the lowest memorized channel.
• You can select only the channels memorized in this unit by using [SKIP/CH.],[VCR/TV] or [CHANNEL ▲▼].
• If “AUTO SET UP” appears on the TV screen again, check the cable connections. Then, press [ ] once again.
Quick Use Guide

**6 VCR Playback**

Before: Turn on the TV and set it to channel 3.
- If channel 3 has been already occupied for broadcasting, see “RF Output Channel” section.

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

**7 DVD/CD Playback**

Before: Turn on the TV, amplifier and any other components which are connected to this unit. Make sure the TV and audio receiver (commercially available) are set to the correct channel.

1. Insert a disc with label facing up.
2. To start playback.
3. To stop playback.

**8 Remote Control**

Printed in China