

# ONKYO®

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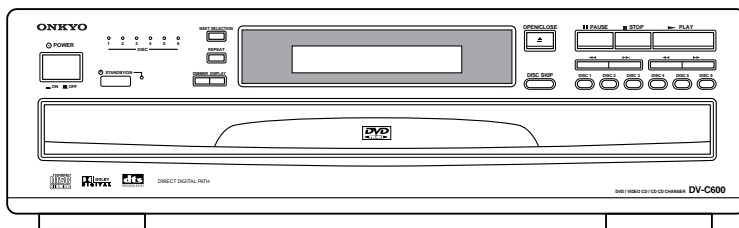
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## DVD Changer

# DV-C600

## Instruction Manual



THIS DVD CHANGER IS MANUFACTURED FOR PLAYBACK OF REGION 1 (USA, CANADA) ENCODED DVD SOFTWARE. USE OF SOFTWARE NOT INTENDED FOR REGION 1 PLAYBACK MAY RESULT IN UNDESIRABLE PLAYER PERFORMANCE.

Thank you for purchasing the ONKYO DVD Changer. Please read this manual thoroughly before making connections and turning on the power. Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new DVD Changer. Please retain this manual for future reference.



**WARNING:**

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

**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.



**WARNING**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN

**AVIS**  
RISQUE DE CHOC ELECTRIQUE  
NE PAS OUVRIR



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.


# 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. **Water and Moisture** - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
6. **Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.
 

PORTABLE CART WARNING


- 6A. 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.
 

S3125A


7. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or if placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings, there should be free space of at least 5 cm (2 in.) and an opening behind the appliance.
9. **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. **Polarization** - If the appliance is provided with a polarized plug having one blade wider than the other, please read the following information:  
 The polarization of the plug is a safety feature. The polarized plug will only fit the outlet one way. If the plug does not fit fully into the outlet, try reversing it. If there is still trouble, the user should seek the services of a qualified electrician. Under no circumstances should the user attempt to defeat the polarization of the 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, especially near plugs, convenience receptacles, and the point where they exit from the appliance.
13. **Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
14. **Nonuse Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
15. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged; or
  - B. Objects have fallen, or liquid has been spilled into the appliance; or
  - C. The appliance has been exposed to rain; or
  - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
  - E. The appliance has been dropped, or the enclosure damaged.
17. **Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

# Precautions

## **DANGER:**

INVISIBLE LASER RADIATION WHEN OPEN AND INTER-LOCK FAILED OR DEFEATED. AVOID DIRECT EXPOSURE TO BEAM.

## **CAUTION:**

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

### **For European model**

This unit contains a semiconductor laser system and is classified as a "CLASS 1 LASER PRODUCT." So, to use this model properly, read this Instruction Manual carefully. In case of any trouble, please contact the store where you purchased the unit. To prevent being exposed to the laser beam, do not try to open the enclosure.



This label on the rear panel states that:

1. This unit is a CLASS 1 LASER PRODUCT and employs a laser inside the cabinet.
2. To prevent the laser from being exposed, do not remove the cover. Refer servicing to qualified personnel.

### **For U.S. model**

The laser is covered by a housing which prevents exposure during operation or maintenance. However, this product is classified as a Laser Product by CDRH (Center for Devices and Radiological Health) which is a department of the Food and Drug Administration.

According to their regulations 21 CFR section 1002.30, all manufacturers who sell Laser Products must maintain records of written communications between the manufacturer, dealers and customers concerning radiation safety. If you have any complaints about instructions or explanations affecting the use of this product, please feel free to write to the address on the back page of this manual. When you write us, please include the model number and serial number of your unit.

In compliance with Federal Regulations, the certification, identification and the period of manufacture are indicated on the rear panel.

### **FCC INFORMATION FOR USER**

#### **CAUTION:**

The user changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### **NOTE:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **For Canadian model**

**CAUTION:** THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSION FROM DIGITAL APPARATUS SET OUT IN THE RADIO INTERFERENCE REGULATIONS OF THE CANADIAN DEPARTMENT OF COMMUNICATIONS.

For models having a power cord with a polarized plug:

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

### **Modele pour les Canadien**

**ATTENTION:** L'INTERFERENCE RADIO ELECTRIQUE GENEREE PAR CET APPAREIL NUMERIQUE DE TYPE B NE DEPASSE PAS LES LIMITES ENONCEES DANS LE REGLEMENT SUR LES PERTURBATIONS RADIO ELECTRIQUES, SECTION APPAREIL NUMERIQUE, DU MINISTERE DES COMMUNICATIONS.

Sur les modeles dont la fiche est polarisee:

**ATTENTION:** POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

# Precautions

## 1. Warranty Claim

You can find the serial number on the rear panel of this unit. In case of warranty claim, please report this number.

## 2. Recording Copyright

Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder.

## 3. Power

WARNING

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., AC 230 V, 50 Hz or AC 120 V, 60 Hz) written on the rear panel.

Worldwide models are equipped with a voltage selector to conform to local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before plugging in the unit.

## 4. Do not touch this unit with wet hands

Do not handle this unit or power cord when your hands are wet or damp. If water or any other liquid enters the case, take this unit to an authorized service center for inspection.

## 5. Location of this unit

- Place this unit in a well-ventilated location.

Take special care to provide plenty of ventilation on all sides of this unit especially when it is placed in an audio rack. If ventilation is blocked, this unit may overheat and malfunction.

- Do not expose this unit to direct sunlight or heating units as this unit's internal temperature may rise and shorten the life of the pickup.
- Avoid damp and dusty places and places directly affected by vibrations from the speakers. In particular, avoid placing the unit on or above one of the speakers.
- Be sure this unit is placed in a horizontal position. Never place it on its side or on a slanted surface as it may malfunction.
- When you place this DVD Changer near a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. In this case, place the DVD Changer away from the TV, radio, or VCR.

## 6. Care

From time to time you should wipe the front and rear panels and the cabinet with a soft cloth. For heavier dirt, dampen a soft cloth in a weak solution of mild detergent and water, wring it out dry, and wipe off the dirt. Following this, dry immediately with a clean cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since these could damage the finish or remove the panel lettering.

## 7. Notes on Handling

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

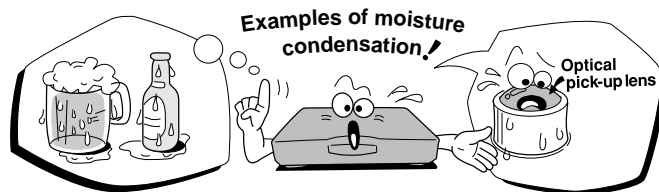
## 8. To Obtain a Clear Picture

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

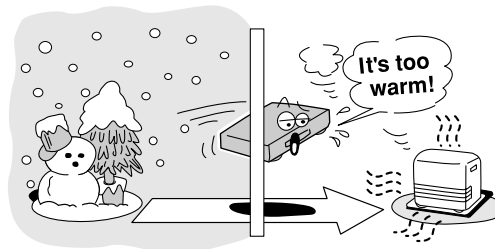
## 9. Notes on Moisture Condensation

Moisture condensation damages the DVD Changer. Please read the following carefully.

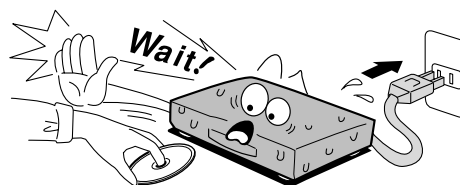
Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the optical pick-up lens inside this unit, one of the most crucial internal parts of the DVD Changer.



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



- Do not use the DVD Changer when moisture condensation may occur. If you use the DVD Changer in such a situation, it may damage discs and internal parts. Remove the disc, connect the power cord of the DVD Changer to the wall outlet, turn on the DVD Changer, and leave it for two or three hours. After a few hours, the DVD Changer will have warmed up and evaporated any moisture. Keep the DVD Changer connected to the wall outlet and moisture condensation will seldom occur.



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# Features

## ■ Highlights that Set the DV-C600

- Dolby®\* Digital Audio Output
- 6-Disc playback (instead of the usual five)
- DTS®\*\* Compatibility
- Video CD playback
- Gold-plated component-video output (usually found only on high-end players, and not always gold-plated)
- Full 96-kHz/24-bit resolution with 96-kHz/24-bit discs (some players don't play these discs, and some play them by downsampling the signal to a lower 48-kHz sampling rate, or reducing the resolution to 20 bits or less, or both)
- Direct digital path for signal purity
- Enhanced black-level setting (another uncommon feature)
- Next Selection (an Onkyo exclusive feature)
- Aluminum front panel (distinguishes the DV-C600 from mass-market models)

## ■ Video Features

- DTS® Compatibility means the DV-C600 can pass a DTS-encoded digital signal from discs with DTS soundtracks to an external processor or receiver with a DTS decoder
- Advanced 10-Bit 27 MHz Video D/A Conversion for four times the accuracy of conventional 8-bit, 13.5 MHz systems
- Gold-Plated Component-Video Output to realize the full potential of DVDs
- 3-Mode Picture Magnification enables you to "zoom" in and enlarge in three steps 25 selected areas of the picture
- Enhanced Black-Level Control lets you set the reference black threshold cutoff-especially useful for picture calibration on TVs
- Passes PLUGE Signals to make it easier for you to set the brightness of your monitor when using DVD test discs
- Video CD Playback for enjoying the wide selection of inexpensive Video-CD software, which has the same high audio quality as MiniDiscs, and picture quality comparable to VHS video cassettes
- High Resolution Onscreen Display
- S-Video Output
- Full-Time Active Video Outputs to make using the DVD changer with both the main home-theater television and the display in the bedroom much easier
- 4-Mode Search (title, DVD chapter, CD track, and time)
- Still Frame to view single frames
- Frame Advance
- Slow Motion for DVD playback without sound at 1/2, 1/4, or 1/8th the normal speed
- Fast Forward/Reverse (x2, x8, x30)
- Last Memory Play function for both DVDs and CDs-resumes play from where last stopped, even if the power was turned off
- 6-Mode Repeat allows you to repeat titles, chapters, tracks, all tracks, memory, and a user-selected A-B section on DVDs and CDs
- Programmed Memory Playback
- Random Playback


- Multi-Aspect Ratio
- 8-Language Soundtrack Capability
- 32 Subtitle Languages
- Multi-Camera Angle
- Parental Viewing Control
- Screen Saver

## ■ Audio Features

- Audiophile-Class Audio Performance
- Direct Digital Path
- Full 96-kHz/24-Bit Audio Resolution
- Digital Audio Output (coaxial)
- Optical Digital Audio Output
- 1 Pair of Analog Outputs (RCA)

## ■ Other Features You'll Enjoy

- 5-Disc Exchange
- CD Mode (DVD Skip) Control
- Next Selection
- Direct Disc Access
- Separate LEDs for Each Disc (1 to 6)
- Dual-Focus Optical Pickup
- Dynamic Range Control
- Large, Bright, 14-Segment Fluorescent Display
- 2-Mode Display Dimmer (normal, dim)
- Anti-Resonant, Heavy-Gauge, Reinforced-Steel Chassis
- Large Anti-Resonant Feet
- Heavy-Duty Power Cord
- Brushed Aluminum Front Panel
- 54-Key Full-Function Remote Control

\* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol  are trademarks of Dolby Laboratories. Confidential Unpublished Works. ©1992-1997 Dolby Laboratories, Inc. All rights reserved.

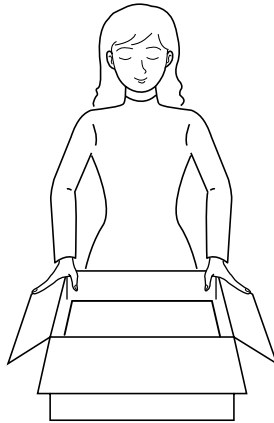
\*\* "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.

### About This Manual

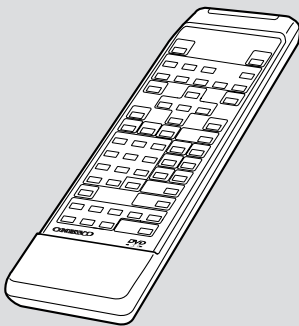
This manual explains the basic procedures for operating your DVD Changer. Some DVD video discs do not support the full potential of the DVD technology. Your DVD Changer may therefore not respond to all operating commands. Refer to instruction notes on discs. A "⊙" mark may appear on the TV screen during operation. It means that the operation is not permitted by the DVD Changer or the disc.

# Supplied Accessories

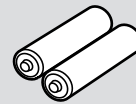
After unpacking, check whether the box contains all items listed below.  
If anything is missing, contact the ONKYO dealer where you bought the DVD Changer.  
The number of accessories is indicated in brackets.



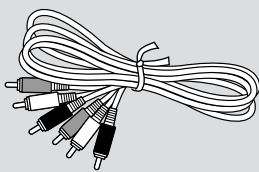
Remote controller (RC-406DV) [1]



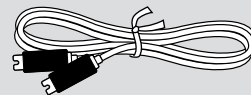
Batteries for the remote controller (size AA/UB-3) [2]



Audio/video connection cable [1]



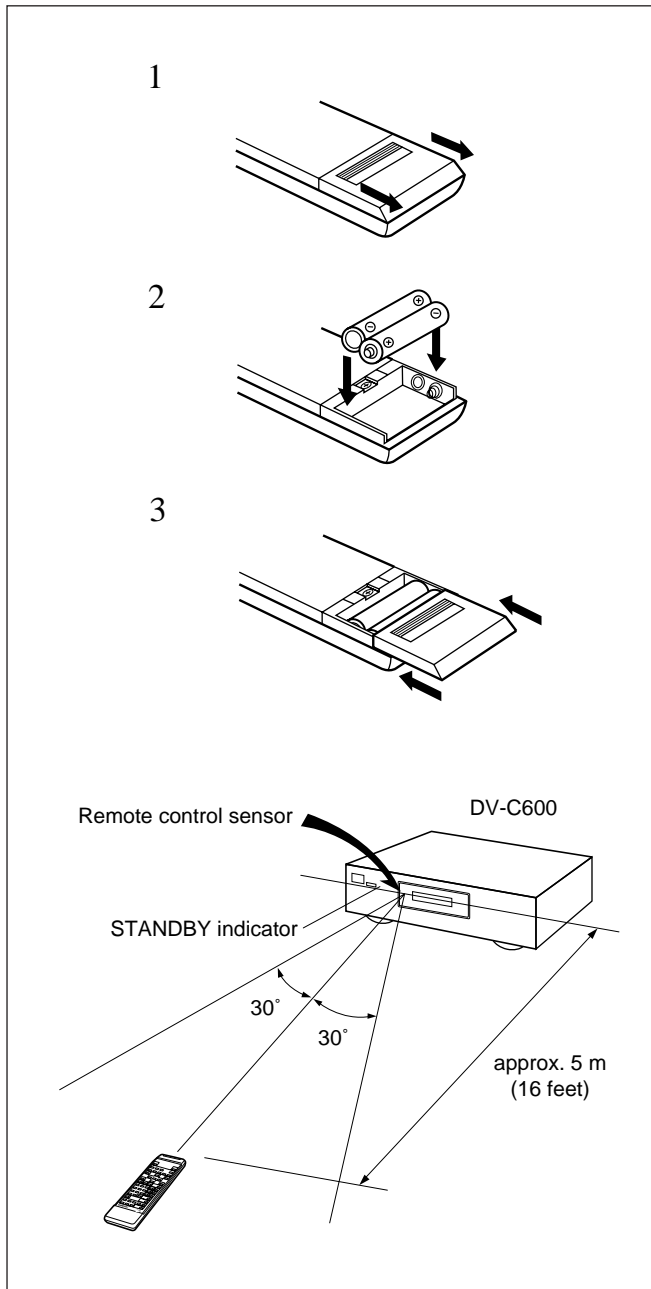
S video cable [1]



RI cable [1]



# Preparing the Remote Controller



## Installing the remote controller batteries

- 1 Remove the battery compartment cover by pressing and sliding it away from the remote controller unit.
- 2 Insert two AA (R6- or UM-3)-size batteries into the battery compartment. Carefully follow the polarity diagram (positive (+) and negative (-) symbols) inside the battery compartment.
- 3 After batteries are installed and seated correctly, replace the compartment cover.

### Notes:

- Do not mix new batteries with old batteries or different kinds of batteries.
- To avoid corrosion, remove the batteries if the remote controller is not to be used for a long time.
- Remove dead batteries immediately to avoid damage from corrosion. If the remote controller doesn't operate smoothly, replace both the batteries at the same time.
- The life of the batteries supplied is about six months but this will vary depending on usage.

## Using the remote controller

Point the remote controller toward the remote control sensor.

### Notes:

- Place the unit away from strong light such as direct sunlight or inverted fluorescent light which can prevent proper operation of the remote controller.
- Using another remote controller of the same type in the same room or using the unit near equipment which uses infrared rays may cause operational interference.
- Do not put any object such as a book on the remote controller. The buttons of the remote controller may be pressed by mistake and drain the batteries.
- Make sure the audio rack doors do not have colored glass. Placing the unit behind such doors may prevent proper remote controller operation.
- If there is any obstacle between the remote controller and the remote control sensor, the remote controller will not operate.

# Notes on the Discs You Can Use with this Unit

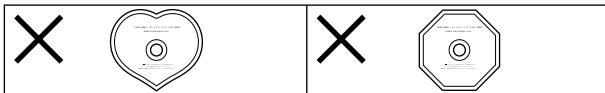
In this section, you will learn which discs can be used with your DV-C600, and how to handle, clean, and store them.

## Discs You can Use

Your DVD Changer can play back the following discs:

	Disc mark	Contents	Disc size	Maximum playback time
DVD videos		Audio + Video (moving pictures)	12 cm	Approx. 4 hours (single sided disc)
				Approx. 8 hours (double-sided disc)
			8 cm	Approx. 80 minutes (single-sided disc)
				Approx. 160 minutes (double-sided disc)
VIDEO CDs		Audio + Video (moving pictures)	12 cm	Approx. 74 minutes
			8 cm	Approx. 20 minutes
Audio CDs		Audio	12 cm	Approx. 74 minutes
			8 cm (CD single)	Approx. 20 minutes

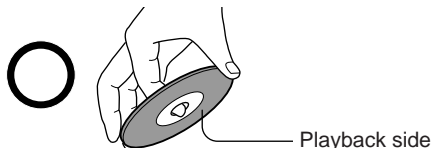
- You cannot play back discs other than those listed above.
- You cannot play back discs such as CD-R, CD-RW, CD-ROM, DVD-RAM, DVD-RW, etc., even though they may be labelled with one of the above logos.
- This DVD Changer uses the NTSC color system, and cannot play back DVD videos recorded in any other color system (PAL, SECAM, etc.).
- Avoid using heart-shaped or octagonal discs. Playing irregularly shaped discs may damage the DVD Changer's internal mechanism.



- Do not use discs that contain adhesive tape or a disc label (on rental discs). Otherwise, you may not be able to eject the discs, or the DVD Changer may become inoperative.

## Handling Discs

- Never touch the playback side (the "blank" side) of the disc.

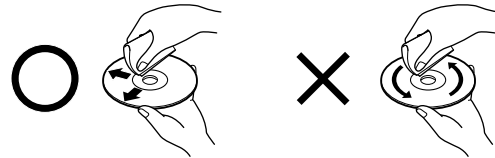


- Never attach paper or tape to discs.



## Cleaning Discs

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



- Stubborn dust or dirt can be removed by wiping the disc lightly with a slightly moistened soft cloth and finishing with a dry cloth.
- Never use solvents such as thinner, benzine, commercially available cleaners, or antistatic spray for vinyl LPs. They may damage the disc.

## Storing Discs

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

## About Region Numbers

The region number of this DVD Changer is "1". This number refers to the coding format of the discs that can be played back and is only important for DVD video discs. If the region number of the DVD video disc you are trying to play back is different from "1", that is, if the disc neither contains the nor the symbol, the DV-C600 cannot play it back. (In this case, your DVD Changer displays a warning message.)

## About VIDEO CDs

Your DVD Changer can play back version 1.1 and 2.0 Video CDs. Version 2.0 discs support PBC functionality. (PBC is the abbreviation of Playback Control.)

- VIDEO CDs not equipped with PBC functionality (Version 1.1)**  
Sound and pictures are played back in the same way as an audio CD.
- VIDEO CDs equipped with PBC functionality (Version 2.0)**  
In addition to the functions available for version 1.1 Video CDs, you can use interactive software and search functions. These are accessible via a menu displayed on the TV screen (Menu Playback). However, not all functions described in this Instruction Manual are supported by all Video CDs.

## Notes on Copyright

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, and rent copyrighted material without permission. DVD video discs are copy protected, and any copy made from these discs will be distorted.

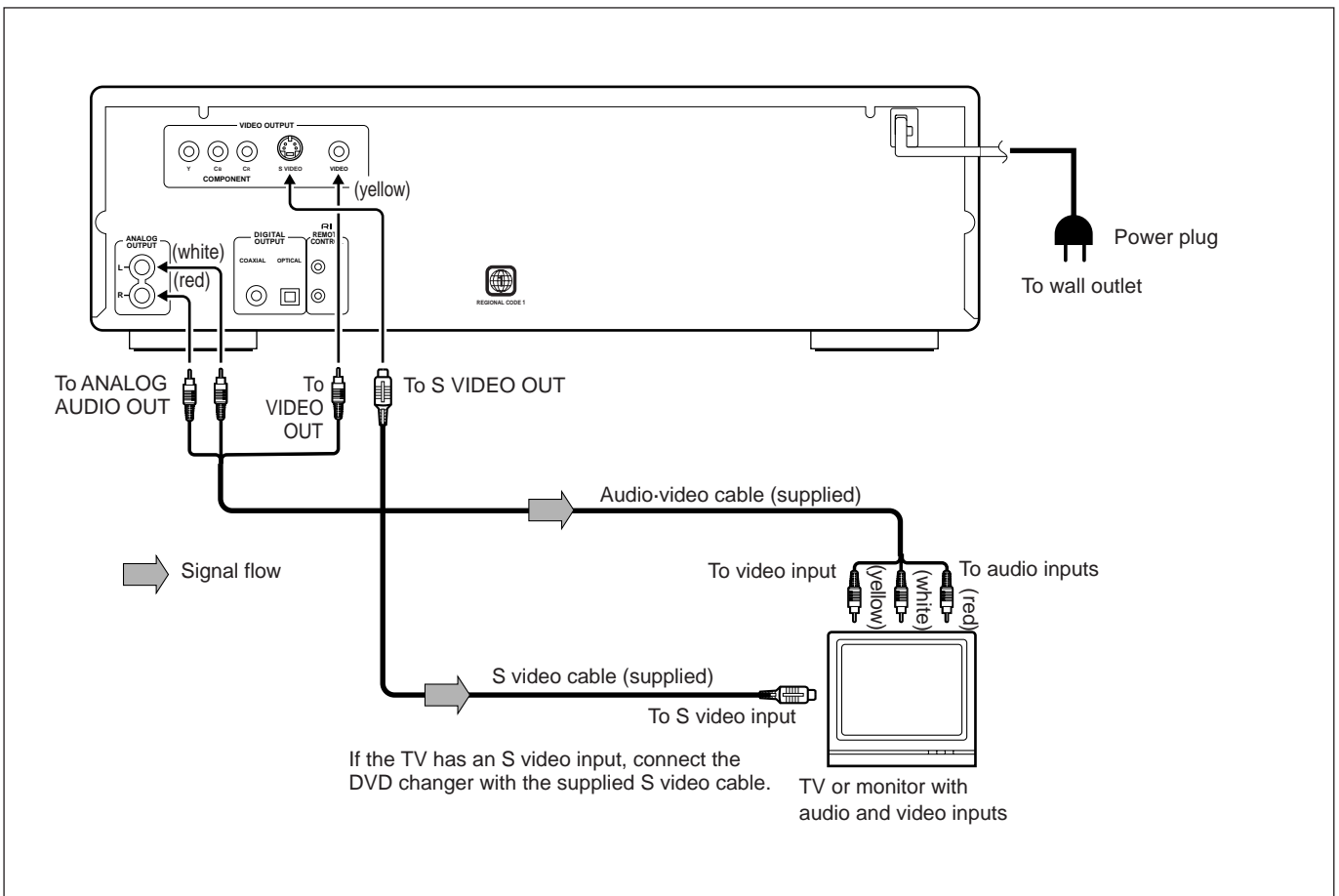
This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses, unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

# Connecting the DV-C600 to a TV

Here is how to connect your DVD Changer to your TV set. In this case, both the video and audio signals will be played back by your TV set.

## Connecting the DV-C600 to a TV

1. Switch off the DVD Changer and the TV set.
2. Connect the DV-C600 to your TV set as shown in the illustration.



### ■ Selecting the audio outputs

Your DV-C600 provides several options for audio playback: you can use the analog or one of the digital audio outputs. If the audio is to be played back by your TV set, connect the ANALOG OUTPUTS to the audio inputs of your TV set and activate them ("Analog 2ch"). See "Audio Settings" on page 36 for details.

### Notes:

- See also the instruction manual of the connected TV on how to select the signals transmitted by the DVD Changer.
- Before connecting the DVD Changer to your TV, be sure to turn off the power to and unplug both units from the wall outlet.
- If your TV set has one audio input (monaural), connect a Y cable adapter to the DV-C600's ANALOG OUTPUTS, and the other end of the adapter to the TV's audio input.
- Be sure to establish a direct video connection between the DV-C600 and your TV set. Do not route the video signal through your VCR or other video component. Otherwise the picture may be distorted due to the DVD disc's copy protection.

# Connecting to an Audio System and TV with COMPONENT VIDEO Inputs

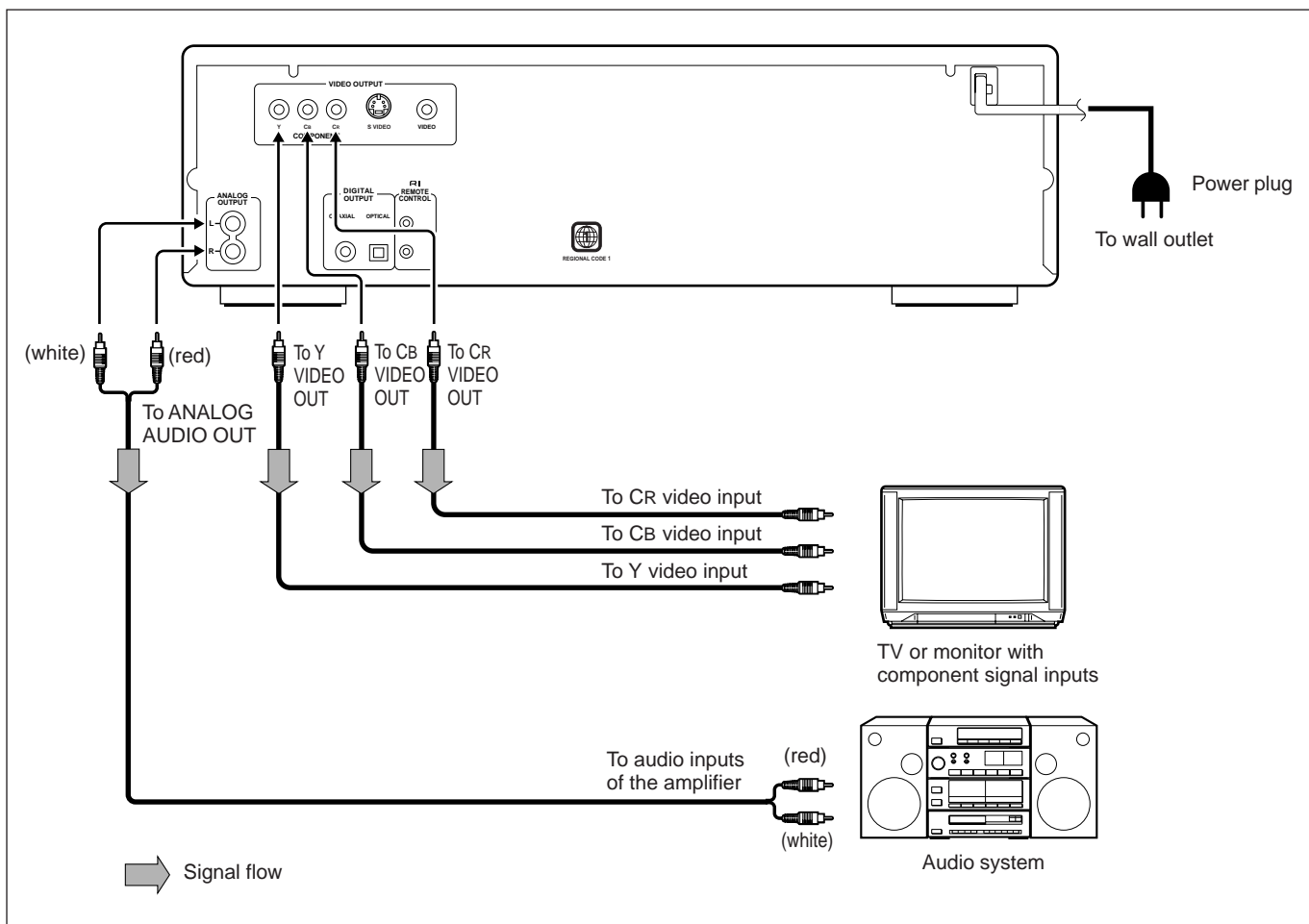
■ It is also possible to “split” the audio and video signals by sending the video signal to your TV set and the audio signal to an amplifier. Doing so has the advantage that you can:

- Listen to the sound of audio CDs and DVD video discs in stereo (via the amplifier) or in Dolby Digital, Dolby Pro Logic Surround or DTS (see pages 12, 13);
- Enjoy a better picture quality of DVD video discs on a TV equipped with Component Video inputs than would be possible via an S-video connection.

## Notes

- See also the manuals of your audio amplifier and TV set for establishing the correct connections and making the required settings.
- Before connecting the DVD Changer to other equipment, be sure to turn off the power and unplug all components from the wall outlet.
- This DVD Changer outputs a very dynamic audio signal. Be sure to set the amplifier’s volume to a moderate listening level to avoid damaging your speakers due to sudden volume surges.
- Switch off the amplifier or select another input source before connecting or disconnecting the DVD Changer’s power cord. If you leave the amplifier power on, the speakers may be damaged.

Your DV-C600 provides several options for audio playback: you can use the analog or one of the digital audio outputs. If your amplifier only provides analog inputs, use the DV-C600’s ANALOG OUTPUTS and select them via the on-screen menu (“Analog 2ch”). See “Audio Settings” on page 36 for details.



## ■ COMPONENT VIDEO OUT (COLOR DIFFERENCE):

Some TVs or monitors are equipped with Color Difference inputs. Connecting the DV-C600 to these inputs allows you to enjoy a better picture quality. Be sure to match the DV-C600’s VIDEO OUTPUTS with the Component Video inputs of your TV or monitor (see the illustration).

Actual labels for the Color Difference inputs may vary depending on the TV manufacturer (e.g. Y, B-Y, R-Y, etc.).


On some TVs or monitors, the color levels of the picture may be reduced slightly, or the tint may change. In such cases, adjust the TV or monitor for optimum performance.

## Note:

- If you place the DVD Changer near a tuner or radio, the radio reception might be distorted due to interference. In this case, locate the DV-C600 away from the tuner or radio.

# Other Audio Playback Options

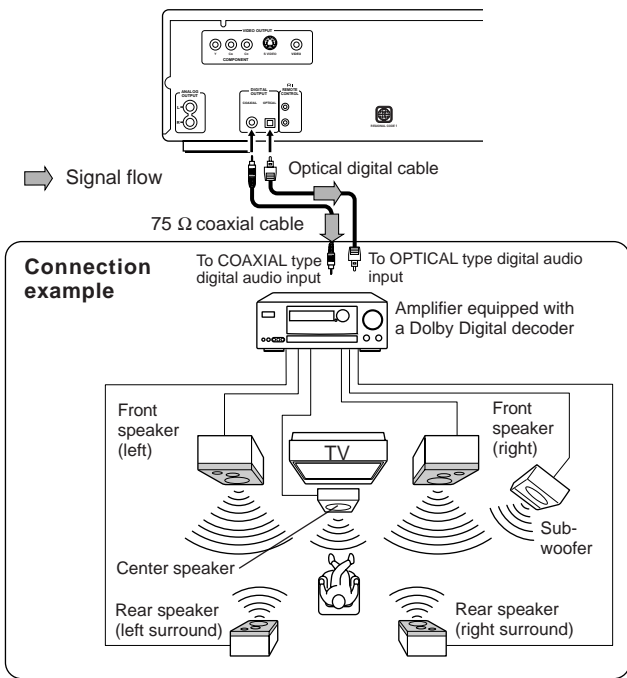
■ You can enjoy high-quality surround audio playback by connecting the DV-C600 to an amplifier equipped with a Dolby Digital, Dolby Pro Logic Surround, or DTS decoder. Furthermore you can transfer the signal of audio CDs to your amplifier in the digital domain if it is fitted with a digital input. See pages 10 and 11 for the video hookup of the DV-C600 to your TV set.



When using an optical digital cable, remove the cap from the DIGITAL OUTPUT OPTICAL connector and firmly fit the cable's jack into the connector. When not using this connector, keep it capped to protect it from dust intrusion.

- Notes:**
- Before connecting the DVD Changer to other equipment, be sure to turn off the power and unplug all components from the wall outlet.
  - This DVD Changer outputs a very dynamic audio signal. Be sure to set the amplifier's volume to a moderate listening level to avoid damaging your speakers due to sudden volume surges.
  - Switch off the amplifier or select another input source before connecting or disconnecting the DVD Changer's power cord. If you leave the amplifier power on, the speakers may be damaged.

## Connecting to an Amplifier Equipped with a Dolby Digital Decoder



Playback of Dolby Digital-encoded discs requires that you establish a digital connection with the amplifier. The selection of the DV-C600's DIGITAL OUTPUT depends on the type of digital input provided on your amplifier. Use either the DIGITAL OUTPUT COAXIAL or OPTICAL connector. See the amplifier's manual for details.

### Dolby Digital

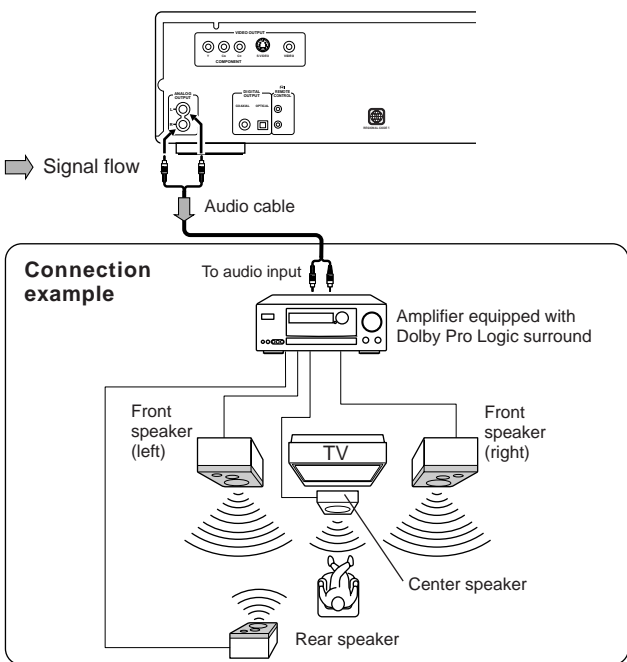
Dolby Digital is a surround sound technology used in movie theaters that is now also available on equipment for a home environment. You can play back motion picture and live-concert DVD video discs of this sound format by connecting the DVD Changer to a 6-channel amplifier equipped with a Dolby Digital decoder or Dolby Digital processor. If your amplifier (or separate decoder) supports Dolby Pro Logic Surround, you can even play back Dolby Pro Logic-encoded DVD movies with full 5.1-channel Dolby Digital soundtracks, as well as titles with the Dolby Surround mark.

- This functionality is only available when using DVD video discs with Dolby Digital encoding.
- Make the following settings:

Setting	Select:	Page
Audio Out Select	Bitstream	36
Recording system	<input checked="" type="checkbox"/>	29

- Select the Dolby Digital or Dolby Pro Logic Surround mode on your amplifier.

## Connecting to an Amplifier Equipped with Dolby Pro Logic Surround



Your DV-C600 also supports Dolby Pro Logic Surround. This effect can be obtained in one of two ways: via a digital or an analog connection with an amplifier that supports Dolby Pro Logic Surround (see below).

### Dolby Pro Logic Surround

Playback of Dolby Pro Logic Surround-encoded DVD video discs requires that you connect the DV-C600 to an amplifier with right and left front speakers, a center speaker, and one or two rear speakers. Feel free to use one or two rear speakers. Be aware, though, that the output sound of the rear channel will be monaural even if you connect two rear speakers.

• **If your amplifier is fitted with a digital input:**

See the connection for Dolby Digital playback above and make the suggested settings. See also the amplifier's manual for how to select its Dolby Pro Logic Surround mode.

• **If your amplifier has no digital input:**

Connect the DV-C600's ANALOG OUTPUTS as shown in the illustration to the left, and make the following setting:

Setting	Select:	Page
Audio Out Select	Analog 2ch	36

- Select the Dolby Pro Logic Surround mode on your amplifier.

**Note:**

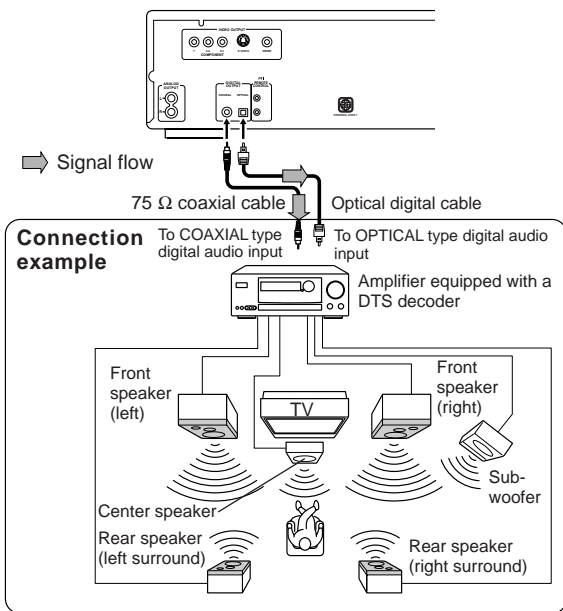
- Do not forget to select the DVD Changer's AUDIO OUTPUTs ("Analog 2ch"). See "Audio Settings" on page 36 for details.

**Warnings**

- If you connect to the digital input of an amplifier that does not have a Dolby Digital decoder or DTS decoder, set the DV-C600's "Audio Out Select" function to "PCM." Any other setting may damage your ears or speakers when using high volume levels.
- During playback of DTS-encoded audio CDs, excessive noise may be output from the ANALOG OUTPUTS. To avoid possible damage to your audio system, we recommend you either break the connection between the DVD Changer's ANALOG OUTPUTS and the amplifier, or to only start playback of your DV-C600 after selecting the appropriate digital input source on your amplifier.
- DTS Digital Surround™ playback is only available if you connect an external 5.1-channel DTS Digital Surround™ decoder to a DIGITAL OUTPUT jack of the DVD Changer.

**Connecting to an Amplifier Equipped with a DTS Decoder**

Playback of DTS-encoded discs requires that you establish a digital connection with the amplifier. The selection of the DV-C600's DIGITAL OUTPUT depends on the type of digital input provided on your amplifier. Use either the DIGITAL OUTPUT COAXIAL or OPTICAL connector. See the amplifier's manual for details.



**Digital Theater System (DTS)**

DTS is a high-quality surround technology used in movie theaters that is also available for home use on DVD video discs or audio CDs. If you have a DTS decoder or processor, you can obtain the full benefit of 5.1-channel DTS encoded sound tracks.

- DTS functionality is only available when using DVD video discs or audio CDs with DTS encoding.
- Make the following settings:

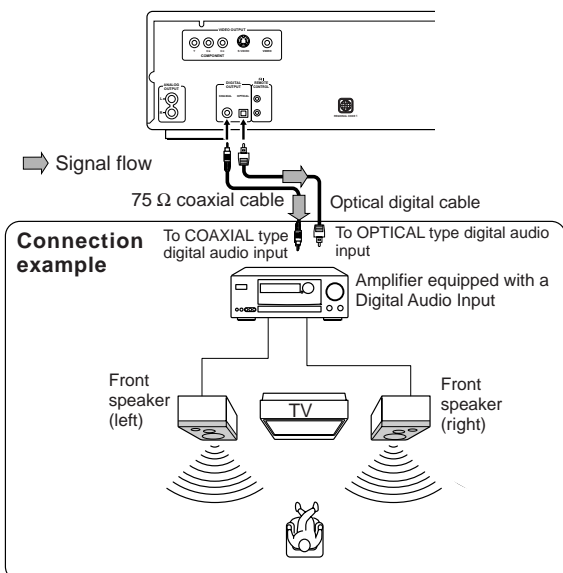
Setting	Select:	Page
Audio Out Select	Bitstream	36
Recording system	DTS	29

- Select the DTS mode on your amplifier.

**Digital Stereo Audio Playback**

The DV-C600 also allows you to output a stereo audio signal in the digital domain. The selection of the DV-C600's DIGITAL OUTPUT depends on the type of digital input provided on your amplifier. Use either the DIGITAL OUTPUT COAXIAL or OPTICAL connector. See the amplifier's manual for details.

**Connecting to an Amplifier Equipped with a Digital Audio Input**



**PCM**

If your amplifier provides a digital audio input, you can establish a digital connection between the DV-C600 and the amplifier. Choose this type of connection if your amplifier is equipped with a better D/A converter than your DV-C600, or if you also own a dedicated D/A converter.

- Make the following setting:

Setting	Select:	Page
Audio Out Select	PCM	36

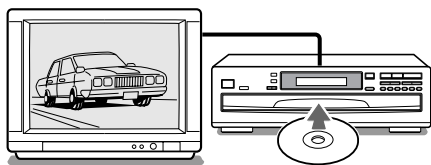
**Notes:**

- NEVER connect a DIGITAL OUTPUT jack of the DVD Changer to the AC-3 RF input of a Dolby Digital Receiver. AC-3 RF inputs use a different encoding format that is not supported by the DV-C600's DIGITAL OUTPUTS.
- The amplifier's coaxial digital input may be labelled "DIGITAL" rather than "COAXIAL". See its manual for details.

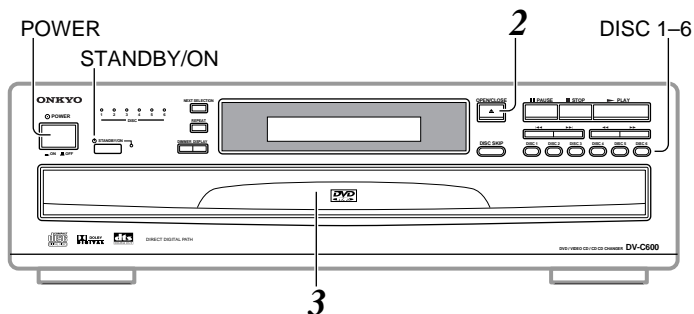
# Playing back Discs

## CAUTION

Keep your fingers clear of the disc drawer as it is closing to avoid personal injury.



This section shows you the basics on how to playback a disc. Most steps in this manual need to be performed using the supplied remote controller. The relative buttons are usually indicated at the beginning of a section.

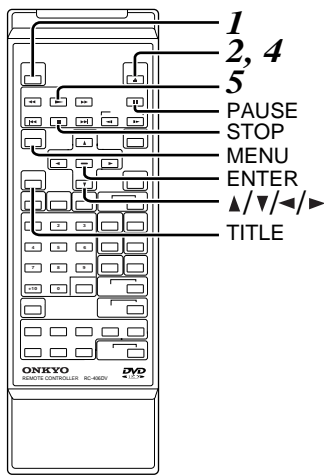


## Basic Playback

### ■ Preparations

- To view a video disc, switch on your TV set and select the video input the DV-C600 is connected to. See also pages 10, 11 for how to connect the DVD Changer to your TV set.
- If you are also using an amplifier for separate audio playback (see pages 11, 12, 13), switch on the amplifier and select the input the DV-C600 is connected to.

<p><b>1</b></p> <p>OR</p>	<p><b>Connecting to a Wall Outlet and Powering On.</b></p> <ol style="list-style-type: none"> <li>Plug the power cord into a suitable wall outlet.</li> <li>Press the POWER button on the main unit to switch it to Standby mode. The STANDBY/ON indicator on the main unit lights.</li> <li>Press the STANDBY/ON button on the main unit, or the POWER button on the supplied remote controller to switch on the DVD Changer. The display lights up, and the STANDBY indicator goes dark.</li> </ol>	
<p><b>2</b></p> <p>OR</p>	<p><b>Press the <math>\blacktriangle</math> OPEN/CLOSE button.</b></p> <p>The disc drawer opens.</p>	<p><b>Note:</b></p> <p>The disc drawer can also be opened when the DVD Changer is switched off.</p>
<p><b>3</b></p>	<p><b>Place a disc in the front disc tray (DISC 1).</b></p> <p>Be sure to insert the disc with the playback side down.</p> <p><b>■ Placing discs in the remaining disc trays.</b></p> <p>Repeatedly press the DISC SKIP button on the main unit to rotate the disc drawer counter-clockwise, and place a disc in each desired tray (1 – 6).</p>	<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>The DV-C600 supports two disc sizes. To avoid damaging your discs or causing malfunction, be sure to insert the discs in the correct guide.</li> <li>Only use DVD video discs or audio CDs. Other data carriers may damage your DVD Changer and/or amplifier/TV set.</li> </ul> <p><b>Tips:</b></p> <p>The corresponding disc tray indicator lights up when the unit detects the disc.</p>
<p><b>4</b></p>	<p><b>Press the <math>\blacktriangle</math> OPEN/CLOSE button again.</b></p> <p>The disc drawer closes. Press one of the DISC 1–6 buttons to select the desired disc on the tray for playback.</p>	<p><b>Note:</b></p> <p>Alternatively, press one of the DISC 1–6 buttons to close the disc drawer and play the selected disc automatically.</p>



■ **To obtain a higher picture quality**

Occasionally, some picture distortion not usually visible during a normal telecast may appear on the TV screen during playback of a DVD video disc. This is due to the fact that DVD videos provide a higher resolution and therefore also more data to process. While the amount of noise depends on the TV you connect the DVD Changer to, reducing the sharpness setting on your TV when viewing DVD video discs may alleviate the problem.

■ **About the DVD VCD CD symbols**

The DVD VCD CD icons on the heading bars below show the discs that support the function described in the section in question.

**DVD** : This function is available for playback of DVD video discs.

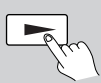
**VCD** : This function is available for playback of VIDEO CDs.

**CD** : This function is available for playback of audio CDs.

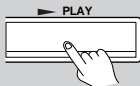


**5**

PLAY



or



**Press the ► PLAY button.**

The DVD Changer starts playback.

If you have inserted a DVD video disc with a title menu or a Video CD with PBC (Playback Control) functionality, a menu screen may appear. See “Direct Playback via the On-Screen Menu” on page 16.

To start playback of a PBC-equipped VIDEO CD from the menu screen, set “PBC” to “ON” via the on-screen menu function. See page 38.

**Notes:**

- For PBC (Playback Control) of VIDEO CDs, see “About VIDEO CDs” on page 9.
- Depending on the DVD video disc you are using, you may need to press the TITLE or MENU button to display the menu screen.

■ **Inserting other discs**

1. Stop playback of the DVD Changer.
2. Press the ▲ OPEN/CLOSE button to open the disc drawer.
3. Press the DISC SKIP button on the main unit repeatedly until the disc you wish to replace can be accessed.

**Note:**

You need to stop playback before being able to insert one or several new discs.

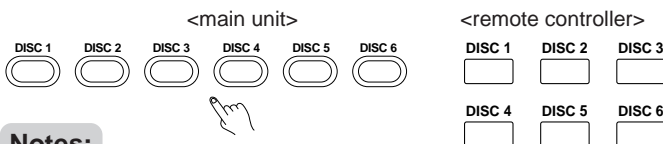
4. Remove the disc you wish to replace, and insert another disc.
5. Press the ▲ OPEN/CLOSE button again to close the disc drawer.

**Note:**

You can also press the ► PLAY button to automatically close the drawer and start playback of the disc that is currently up front. To start playback of another disc than the one in the front tray, you first need to close the disc drawer.

■ **Selecting the desired disc for playback**

Press one of the DISC1–6 buttons on the main unit or on the remote controller. The DV-C600 starts playing the first title of the selected disc. There is no need to press the ► PLAY button.



**Notes:**

- If you select the desired disc using one of the DISC1–6 buttons while the DVD Changer is playing back a title of another disc, playback starts with the first title of the newly selected disc.
- You can also press the DISC SKIP button to jump to the disc in the next tray (or from tray #6 to tray #1 if the disc in tray #6 is currently being played back). In that case playback will start with the first title of the disc in the newly selected tray.
- If you select the desired disc by pressing the DISC SKIP button while the DVD Changer is stopped, press the ► PLAY button to start playback of the first title of the selected disc.

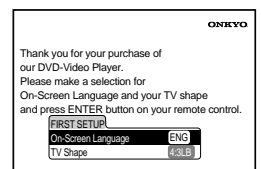
■ **The FIRST SETUP screen**

The FIRST SETUP screen is only displayed the very first time you switch on your DV-C600. This page allows you to set the two single most important parameters. Note that you can change these settings any time by selecting the appropriate on-screen menu function. See also page 34, 35.

1. Check the video connection of the DVD Changer to your TV set (see page 10 and following) and switch on your TV.

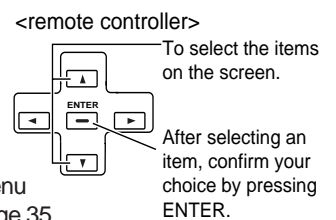
2. Switch on the DVD Changer.

The following menu screen page is displayed:



3. Press the remote controller's ▲ or ▼ button to select “On-Screen Language” and press the ENTER button.

You can select one of the following languages: ENG (English), FRE (French), or SPA (Spanish). That language will be used on all on-screen menu pages and for subtitling. See page 35.



4. Select the desired language using the ▲ or ▼ button and confirm by pressing ENTER.

**Note:**

If you agree with the currently selected language, just press ENTER without changing the setting.

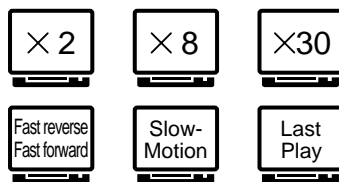
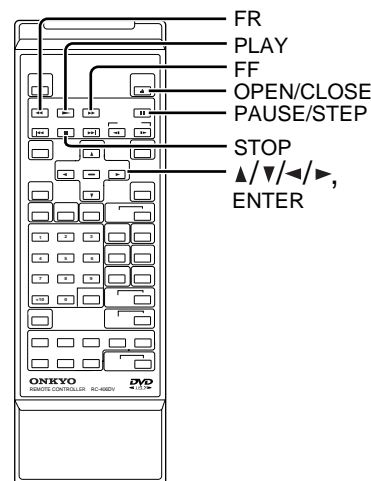
5. Press the ▼ button to select the “TV Shape” function. This function allows you to specify the picture size of your TV. See 35 for details.

6. Use the ▲ and ▼ buttons to specify the screen size and confirm by pressing ENTER.

7. Press the SETUP button to store your settings.

The settings are stored and you are returned to the FIRST SETUP screen page. As stated above, you can also change these settings at a later stage. See page 32.

# Playing back Discs (continued)

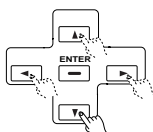


You can play back discs at various speeds, and resume playback in various ways. Use the remote controller for the following functions.

## Direct Playback, Stop and Pause

### Direct Playback via the On-Screen Menu

1. Switch on your TV set.
2. Select the desired title using the **▲ / ▼ / ◀ / ▶** or the number buttons.
3. Press the **ENTER** button.



The DVD Changer starts playing back the selected title.

- If you do not need the menu functionality of PBC-encoded Video CDs, set the "PBC" function to "Off". See page 38.

### Pausing Playback: Still mode

1. To pause playback, press the **⏸ PAUSE/STEP** button.
- The sound is muted during still mode.
2. Press the **▶ PLAY** button to resume playback.

#### Note:

The DV-C600 also provides a function for optimum display of still pictures (only available for DVD video discs). See "Pause/Still" on page 37.

### Stopping Playback

Press the **■ STOP** button.

If you do not wish to resume playback from this position, see "Resuming Playback from the Beginning of the Current Title" on page 17.

### Removing a Disc

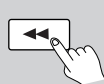
1. Stop playback.
2. Press the **▲ OPEN/CLOSE** button.
3. Wait until the disc drawer has opened completely, then remove the disc.

#### Notes:

- Do not move the DV-C600 during playback or subject it to strong vibrations to avoid damaging the discs.
- Use the **▲ OPEN/CLOSE** button on the remote controller or DVD player to open and close the disc drawer. Do not obstruct the disc drawer while it is moving. Doing so may cause the DVD Changer to malfunction.
- Do not push up the disc drawer or put objects other than discs on it. Doing so may cause the DVD Changer to malfunction.
- In many instances, a menu screen will appear after playback of a movie is completed. Prolonged display of such a menu may damage your television set, permanently etching that image onto the screen. To avoid this, press the STOP button on your remote controller once playback of the movie is finished.
- If you pause a picture and leave it still for a long time, the screen saver of the DV-C600 is automatically activated (provided the "Screen Saver" function is set to "On", see page 37). To deactivate the screen saver and resume playback, press the **▶ PLAY** button.

## Fast Reverse and Fast Forward Playback

FR



FF



Press the **FR (fast reverse)** or **FF (fast forward)** button during playback.

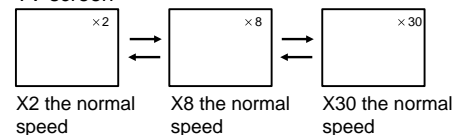
#### DVD video discs

The playback speed changes to twice the normal speed in the selected direction. Press the button again to further increase the fast forward or reverse speed.

**FR:** press this button to quickly return to an earlier position.

**FF:** press this button to advance to a position behind the current position.

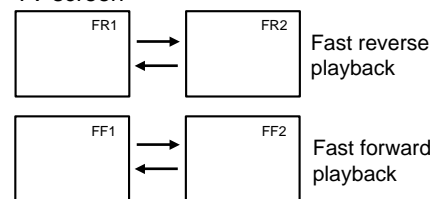
TV screen



#### VIDEO CDs/Audio CDs

For Video and Audio CDs, there are two fast forward and reverse speeds.

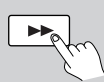
TV screen



FR



FF



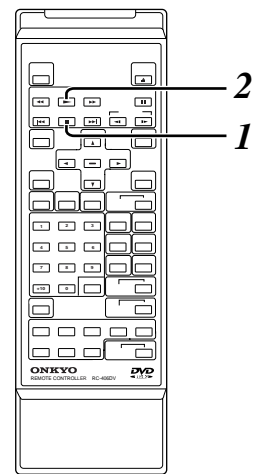
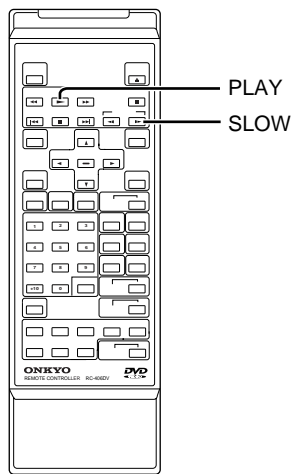
### Resuming Normal Playback after Fast Forwarding/Reversing

PLAY



After locating the desired position, press the **▶ PLAY** button to resume normal playback.

- The DVD Changer does not play back sound or subtitles during fast reverse or forward scans of DVD video discs. The sound of audio CDs, however, is played back at the selected scrolling speed.
- The x2, x8 and x30 speeds are only approximate values. They may vary slightly from disc to disc.



## Slow-Motion Playback

DVD VCD

DVD video discs can be played back in slow motion. This is done by reducing the playback speed.

**SLOW**

Only for the DVD video disc

**Press the ◀◀ or ▶▶ SLOW button during playback.**

By pressing either button repeatedly, you can cycle through the three available playback speeds.

TV screen

1/2 the normal speed

1/4 the normal speed

1/8 the normal speed

TV screen

1/8 the normal speed

1/4 the normal speed

1/2 the normal speed

## Resuming Playback From the Desired Location

DVD VCD CD

After stopping playback, you can either resume from the location where it was stopped, or from the beginning of the current title.

**1**

**Press the ■ STOP button at the location where you want to halt playback.**

The DVD Changer memorizes this location.

**2**

**Press the ▶ PLAY button.**

The DVD Changer resumes playback from the location where playback was stopped.

### ■ Resuming Playback from the Beginning of the Current Title

If you do not wish to resume playback from the position where it was stopped, proceed as follows. In this case, playback will be started from the beginning of the last title you played back, or from the beginning of the disc.

#### 1. Stop playback by pressing the ■ STOP button twice.

The second press of the ■ STOP button will clear the DVD Changer's location memory.

#### 2. Press the ▶ PLAY button.

The location where playback is started depends on the type of disc you are using:

**DVD video disc:** Playback starts from the beginning of the current title.

**Video CDs/audio CDs:** Playback starts from the beginning of the disc.

- To quickly resume playback from the beginning of a DVD video disc, open and close the disc drawer by pressing the ▲ OPEN/CLOSE button, then press the ▶ PLAY button.

### Notes:

- The DVD Changer's location memory is also cleared when you:
  - unplug the DVD Changer from the wall outlet after stopping playback.
  - open the disc drawer.
  - adjust/change the Parental Lock function (see page 37) or select another disc menu language (see page 34).
- Depending on the disc, playback may not be resumed at the exact location where it was stopped.
- Other settings you change via the on-screen menu while a location is memorized may be available only after the memory is cleared.

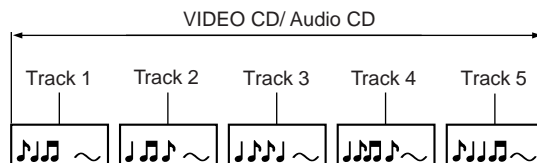
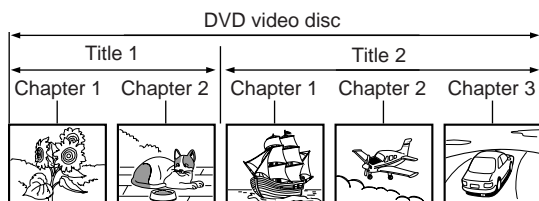
### ■ Resuming Normal Playback

**Press the ▶ PLAY button to resume normal playback.**

### ■ Using Frame Step DVD VCD

**While playback is paused, you can step forward one frame at a time by pressing the ■ PAUSE/STEP button.**

# Locating Titles, Chapters, or Tracks



Normally, DVD video discs are divided into “titles”, while the titles are themselves sub-divided into “chapters”. VIDEO CDs and audio CDs are divided into “tracks”. You can quickly locate any specific title, chapter, or track.

## Locating a Title Using the Title Menu DVD

If the DVD video disc you are playing back contains a title menu, you can locate any specific title you wish to play back.

- 1** Press the **TITLE** button.

A Title menu like the following appears:
- 2** Use the **▲ / ▼ / ◀ / ▶** buttons to select the title you want to watch.

If the titles in the Title menu are assigned a number, you can directly select the desired title using the numeric buttons on the remote controller.
- 3** Press the **ENTER** button.

The DVD Changer starts playback from Chapter 1 of the selected title.

### Notes:

- The above instructions correspond to the basic procedure. Please note that the exact steps may depend on the contents of the selected DVD video disc. If different instructions appear on the TV screen, follow those instructions.
- If you display the Title menu during playback and press the TITLE button again without selecting a title, the DVD Changer resumes playback from the point where you first pressed the TITLE button.

## Title Selection with the Numeric Buttons DVD

If the selected DVD video disc contains Title numbers, you can select the desired title by entering its number.

- 1** Press the **SEARCH** button.

Check whether the Title number is highlighted. If it is not, press **▲** to select it.

Example:
- 2** Press the numeric button of the Title you wish to select.

To select two-digit Titles, press the **+10** button followed by a numeric button. Here are two examples:

To select Title 2, press [2].

To select Title 12, press [**+10**] once (for “10”), then [2].
- 3** Press the **▶ PLAY** button.

The DVD Changer starts playback from Chapter 1 of the selected title. You can also select another Chapter before starting playback. See page 17.

### Notes:

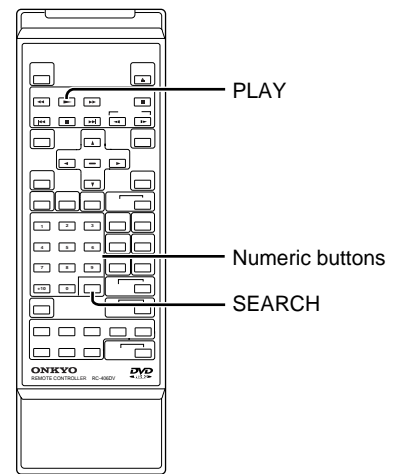
- Press the **CLEAR** button if you do not wish to start playback from the Title number you have just entered (before pressing the **▶ PLAY** button). Pressing **CLEAR** several times will reset both the Title and Chapter numbers. (**SEARCH** also allows you to directly select the desired Chapter, see next page.)
- See pages 32, 34 for how to select the languages for the on-screen menu displays.



# Selecting a Precise Scene or Audio Passage



It is also possible to directly select a given location and to start playback from there. This may come in handy when you want to view a given scene (DVD video discs/Video CDs) or listen to a specific passage (audio CD) within the currently selected Title or Track.



## Entering the Time Location DVD VCD CD

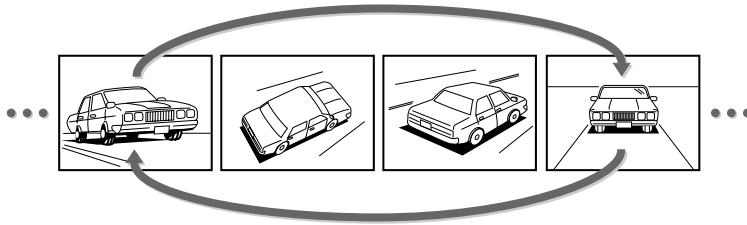
Here is how to enter the time location of the scene or passage you wish to play back:

<b>1</b> 	<p>Press the <b>SEARCH</b> button several times until the following message is displayed:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;">Time <b>---:--:--</b></div>
<b>2</b> 	<p>Enter the desired time value with the numeric buttons.</p> <p>Here is an example:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;">1 → 2 → 5 → 3 → 0</div> <div style="border: 1px solid black; padding: 5px; width: fit-content;">Time <b>1:25:30</b></div>
<b>3</b> 	<p>Press the <b>▶ PLAY</b> button.</p> <p>The DVD Changer starts playback from that location.</p>

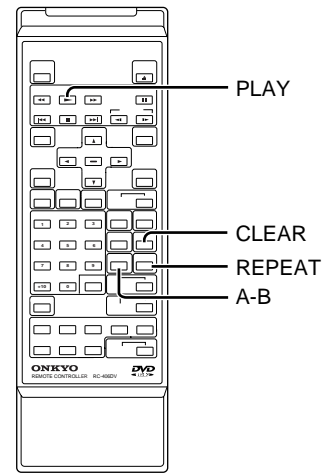
### Notes:

- Some discs may not respond to this procedure.
- In some cases, there may be a slight shift between the time value you enter and the location where playback starts.
- This method of selecting the desired location is only available within the current Title (DVD video discs) or track (Video/audio CDs).

# Repeat Functions



Your DVD Changer allows you to repeat a given Title, Chapter/track or disc indefinitely. It is also possible to repeat a given scene or audio passage (A-B Repeat).



## Repeating a Title or Chapter/Track

Here is what you need to do in order to program a playback loop of the selected Title, Chapter/track, or disc:

- 1** Select the disc that contains the material to be repeated (or that you want to playback repeatedly in its entirety).  
See "Selecting the desired disc for playback" on page 15.
- 2** Select the Title or Chapter/track you want to repeat.  
See "Locating Titles, Chapters, or Tracks" on page 18 and following.
- 3** Press the REPEAT button to select the desired Repeat function.  
Pressing this button repeatedly cycles you through the available options. These options depend on the currently selected disc:  

DVD video discs:	
Chapter Repeat	Repeats the same chapter.
Title Repeat	Repeats the same title.
Disc Repeat	Repeats the same disc.
All Repeat	Repeats all discs.
Repeat Off	Resumes normal playback.

Video CDs/audio CDs	
Track Repeat	Repeats the same track.
Disc Repeat	Repeats the same disc.
All Repeat	Repeats all discs.
Repeat Off	Resumes normal playback.
- 4** To cancel the Repeat function at any time, press the CLEAR button.

### Note:

Some discs do not support these Repeat functions.

## Repeating a Given Scene or Passage

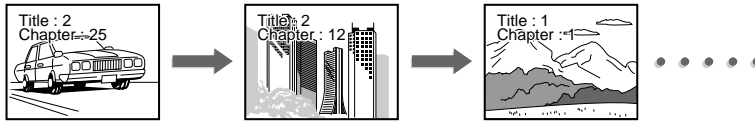
- 1** Start playback of the desired Chapter or Track (see page 19 and following for how to select it).
- 2** Press the A-B button at the beginning of the scene or passage you wish to repeat (this position is called "A").
- 3** Press A-B again at the end of the excerpt to be repeated (to store point "B").  

The DVD Changer automatically returns to point "A" and starts repeating the selected excerpt.
- 4** To cancel the Repeat function at any time, press the CLEAR button.

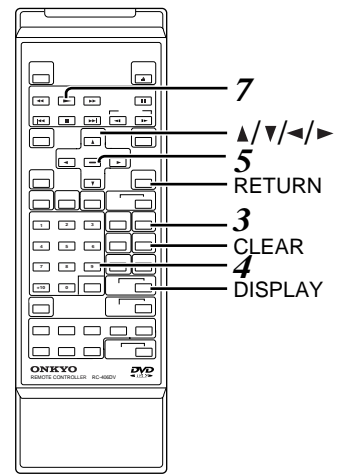
### Notes:

- Some discs do not support the A-B Repeat function.
- The "A" and "B" points must be located within the currently selected Title or Track.
- For DVD video discs: The A-B Repeat function is not available for scenes that provide several camera angles.
- In some cases, the "A" and "B" points may be shifted slightly with respect to the positions you selected.

# Setting the Desired Playback Order



Your DV-C600 comes with a special 28-step memory that allows you to program the order in which the Titles and Chapters/tracks are to be played back. Such “sequences” can include material from several discs.



DVD VCD CD

## Programming Memory Sequences

The DV-C600's Memory function allows you to program the order in which the material on one or several discs should be played back.

### Note:

If you only want to select the next track for playback, using the Next Selection function is a lot faster. See page 24.

### ■ Programming the D, T and C entries

Here are a few hints that explain the programming system and help you save time:

### Note:

For Video and audio CDs, you can only program the disc (“D”) and Track numbers. Track numbers are assigned to the “T” entry. The “C” entry only applies to DVD video discs.

### Only specify what you does need to change:

**Disc number:** if a subsequent entry refers to the previously selected disc number, you do not need to enter it again for the new step. (Do not change the “—” setting for “D”.)

**Title number (DVD video discs only):** if a subsequent step refers to another Chapter of the previously selected Title, only entering the Chapter number is enough. (Do not change the “—” setting for the “D” and “T” entries.)

**Chapter number (DVD video discs only):** if you want the DV-C600 to play back all Chapters of the selected Title, leave the “C” entry blank.

- 1

**Insert the disc(s) you need for programming the desired sequence.**
- 2

**Switch on your TV set.**
- 3

**Stop playback if it is still running, and press the MEMORY button.**

MEMORY			
D	T	C	
1	8	15	22
2	9	16	23
3	10	17	24
4	11	18	25

The letters on this menu page have the following meaning:  
D: Disc number, T: Title (or Track) number, C: Chapter number.
- 4

**Use the numeric buttons on the remote controller to enter the numbers you wish to include in your Memory sequence.**

Use the ◀ / ▶ buttons to move the cursor to the “D”, “T”, or “C” column, depending on whether you want to enter a disc, Title (or Track), or Chapter number.
- 5

**Confirm your selection by pressing the ENTER.**

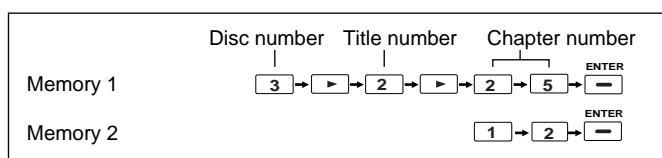
The DV-C600 now jumps to the next Memory step.
- 6

**Program the remaining steps.**
- 7

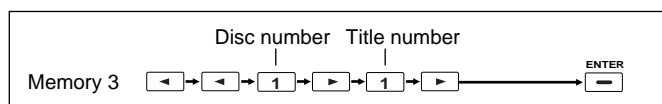
**Press the ▶ PLAY button to start playback of your memory sequence.**

Here are a few programming examples:

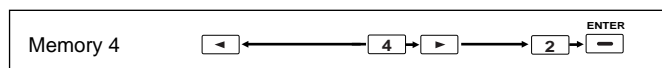
**Chapters 25 and 12 of Title # 2 on disc #3 (two steps):**



**All chapters of Title #1 on disc #1:**



**Chapter 2 of Title #4 on disc #1:**



MEMORY											
D	T	C	D	T	C	D	T	C	D	T	C
1	3	02 25	8	---	---	15	---	---	22	---	---
2	3	02 12	9	---	---	16	---	---	23	---	---
3	1	01 --	10	---	---	17	---	---	24	---	---
4	1	04 02	11	---	---	18	---	---	25	---	---
5	---	---	12	---	---	19	---	---	26	---	---
6	---	---	13	---	---	20	---	---	27	---	---
7	---	---	14	---	---	21	---	---	28	---	---

**“Copy” the settings of the previous memory:**

Doing so allows you to use the settings of the previous memory as a starting point and only change one entry. Example: if memory 1 refers to disc 3/Title 2/Chapter 25, while memory 2 needs to refer to disc 1/Title 2/Chapter 12, you can “copy” memory 1 to memory 2 and modify the “C” (chapter) entry:

- Program the memory to be copied (example: memory 1), and press the ENTER button. The DVD Changer advances to memory 2.
- Use the numeric buttons to enter the chapter number 12 on the black cursor on the “C” entry, then press the ENTER button, “D” and “T” on the memory 1 are copied to memory 2.

**Other Memory Functions**

**Leaving the MEMORY display page**

To leave the MEMORY display page, press the RETURN or MEMORY button.

**Correcting an entry of a previously programmed step:**

- Use the ▲ / ▼ buttons to move the cursor to the corresponding memory number.
- Select the entry (D, T or C) you wish to change with the ◀ / ▶ buttons.
- Enter the correct value using the numeric buttons.

**Erasing a step**

- Stop playback.
- If the Memory sequence is not currently displayed, press the MEMORY button to select it.
- Select the step you wish to erase with the ▲ / ▼ buttons.
- Press the CLEAR button to erase the selected step.

**Erasing the entire Memory sequence**

To erase all steps, either switch the DVD Changer off and back on again, or open and close the disc tray.

**Programming the next step during playback**

If you press the MEMORY button during playback, a menu page is displayed where you can program a new step.

**Programming several new steps during playback**

- Press the MEMORY button followed by the DISPLAY button.  
The Memory menu appears on the TV screen.
- Continue with step 3 on page 22.


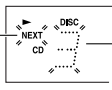

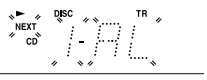

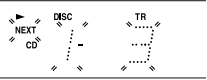

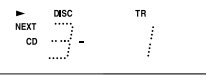
**Notes:**

- Some discs do not allow Memory playback.
- The Repeat function (see page 21) is also available during playback of your Memory sequence. Press the REPEAT button to activate it for the current step of your Memory sequence.
- You can only program Title (or Track) and Chapter numbers that exist on the selected disc.
- For Video and audio CDs, the “T” entry allows you to select the track, while the “C” entry is not used.
- The Memory function is also available during playback.

# Additional Playback Functions

## Next Selection: Preparing the next Audio Track

During playback of an audio CD, you can already prepare the next track that will be played as soon as the current one is finished. The difference with direct selection of a track or disc is that playback of the prepared track starts only after the current track is finished (i.e. not right away).

<p><b>1</b></p> 	<p><b>During playback of an audio CD, press the NEXT SELECTION button on the DV-C600 or the remote controller to activate this function.</b></p> <p>NEXT indicator flashes  Current disc number</p> <p>The NEXT indicator flashes and the disc number disappears on the display.</p>	<p><b>Note:</b></p> <p>This function is only available for audio CDs (when the CD indicator lights).</p>
<p><b>2</b></p> 	<p><b>Use the DISC1 – 6 buttons (or DISC + and DISC –) to select the disc that contains the next track you want to listen to.</b></p> <p>The number of the selected disc flashes on the display.</p>  <p>If you want to play back all tracks of the selected disc, skip to step 4 without selecting a track. AL: means that all tracks will be played back.</p> <p><b>Tip:</b> You can also use the DISC SKIP button on the DV-C600 to select the next disc.</p>	<p><b>Note:</b></p> <p>You need to press one of these buttons within 8 seconds after pressing NEXT SELECTION. Otherwise, the Next Selection function will be cancelled. In that case, start again with step 1.</p>
<p><b>3</b></p> 	<p><b>Select the track using the numeric buttons.</b></p> <p>The number of the selected track flashes on the display. In that case, the display looks as follows:</p> 	
<p><b>4</b></p> 	<p><b>Press the NEXT SELECTION button to confirm your selection. The disc number and track number light up continuously. After a few moments, the disc and track numbers of the currently playing track reappear.</b></p>  <p><b>You can check the next selection by pressing the NEXT SELECTION button.</b></p> <p>As soon as the current track is finished, the DVD Changer will play back the prepared track (or disc if you selected "AL").</p> <p><b>Tip:</b> NEXT SELECTION is also available during Memory playback (see page 22) and Random playback (see page 25). Using Next Selection, will cancel the Memory or Random playback function, however.</p>	<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• Directly selecting another disc or track with the DISC SKIP button, DISC +/-, DOWN  /UP  or the numeric buttons after preparing a track with NEXT SELECTION cancels the Next Selection function.</li> <li>• You can only prepare one track with Next Selection. See "Programming Memory Sequences" on page 22 for how to prepare a series of tracks. Preparing yet another track before the previously entered Next Selection command has been executed overrides your first setting, so that only the second Next Selection is carried out.</li> <li>• If you stop playback by pressing the STOP  button, the Next Selection function is cancelled.</li> </ul>




### ■ Cancelling the Next Selection function

If you decide not to take advantage of the Next Selection function after all, proceed as follows:

1. Press the NEXT SELECTION button.  
The disc and song numbers flash on the display.
2. Press the CLEAR button.
3. Press the NEXT SELECTION button again.  
The NEXT indicator goes dark and the function is cancelled.

## Using the DVD Changer as CD player

Since your DV-C600 allows you to insert up to six discs in any combination (DVD video discs, Video CDs, audio CDs), there may be times when you only want to listen to music and avoid having to press the DISC SKIP or DISC+ and DISC- buttons several times to skip to the next audio CD. In that case, proceed as follows:

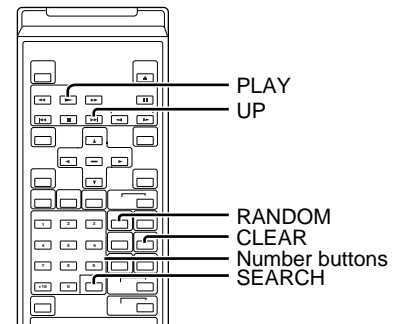
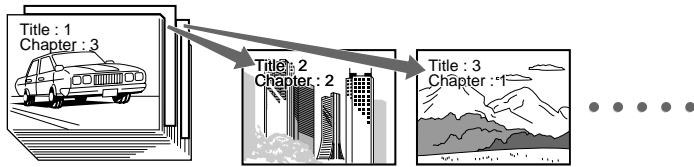
<p><b>1</b></p> <p>CD MODE</p> 	<p><b>Press the CD MODE button while the DV-C600 is stopped or playing back a CD.</b> The RPT message appears on the display and the REPEAT indicator lights to signal that all audio CDs will be repeated in sequence.</p>  <p>Disc number    Track number                      REPEAT lights up.</p>	<p><b>Note:</b></p> <p>The CD MODE button does not work while the DV-C600 is playing back a disc other than an audio CD. You first need to press the STOP button. Next, press the CD MODE button to enter CD Mode. The DVD Changer starts playing back the audio CD in the holder with the lowest number.</p>
<p>CD MODE</p> 	<p><b>Press the CD MODE button again to cancel CD Mode.</b> The RPT message disappears and the REPEAT indicator goes dark again to signal that the DVD Changer has returned to normal playback mode.</p>	

**Note:**

Another way of selecting only audio tracks is to take advantage of the DV-C600's Memory function. See "Programming Memory Sequences" on page 22 for details.

# Additional Playback Functions (continued)

## Random Playback



The DV-C600's Random playback functions allow you to select a mode where the DV-C600 decides which Title or Chapter/track to play next. A similar function is available on most CD players. There are two Random functions: one for DVDs only, and another that is available for both DVDs and Video/audio CDs:

### Title Random

For DVD video discs, you can decide to have the DV-C600 select the Titles in a random (unpredictable) order:

<b>1</b>	<p><b>Stop playback and select the DVD video disc whose titles you wish to watch in random order.</b></p> <p>See "Selecting the desired disc for playback" on page 15 for details.</p>
<b>2</b>	<p><b>Press the RANDOM button to select "Title Random".</b></p> <p>Pressing this button repeatedly will cycle through the following options:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>DVD</p> <p>Title Random</p> <p>Chapter Random</p> <p>Random Off</p> </div> <p><b>Note:</b></p> <p>If you press the RANDOM button during playback, the DV-C600 automatically starts random playback after finishing the current title.</p>
<b>3</b>	<p><b>Press the ► PLAY button within 5 seconds after pressing the RANDOM button.</b></p> <p>The DVD Changer starts random playback.</p>
<b>4</b>	<p><b>Press CLEAR to resume normal playback.</b></p>

#### Notes:

- Some discs may not permit random playback.
- You cannot use this Random function in conjunction with Memory playback (see page 22).
- Select "Random Off" if you do not need the Random function after all.

### Playing Chapters or Tracks in Random Order

This Random function allows you to activate random playback of the Chapters within the currently selected title (DVD video discs) or of the tracks on a Video or audio CD.

<b>1</b>	<p><b>Stop playback and select the disc whose titles you wish to watch/listen to in random order.</b></p> <p>See "Selecting the desired disc for playback" on page 15 for details.</p>
<b>2</b>	<p><b>Press the SEARCH button and use the numeric buttons on the remote controller to select the Title.</b></p> <p>(DVD video disc)</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>SEARCH → 2</p> <p>Title: 2 Chapter: 1</p> </div> <p><b>Note:</b></p> <p>This is only possible for DVD video discs. Skip to step 2 for Video/audio CDs.</p>
<b>3</b>	<p><b>Press the RANDOM button to select "Chapter Random" (DVD) or "Track Random" (Video/audio CD).</b></p> <p>If you press the RANDOM button during playback, the DV-C600 automatically starts random playback after finishing the current Chapter or track.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>(DVD video disc)</p> <p>Chapter Random</p> <p>Title: 2 Chapter: 1</p> </div>
<b>4</b>	<p><b>Press the ► PLAY button within 5 seconds after pressing the RANDOM button.</b></p> <p>The DVD Changer starts random playback.</p>
<b>5</b>	<p><b>Press CLEAR to resume normal playback.</b></p>

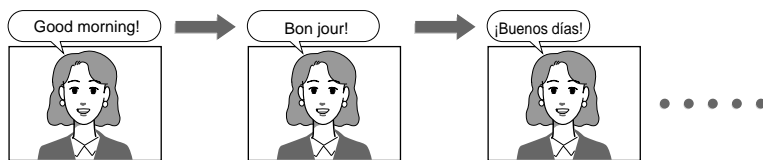
#### Notes:

- Some discs may not permit random playback.
- You cannot use this Random function in conjunction with Memory playback (see page 22).
- You can press the UP ►► button during Random playback to jump to the next Chapter or track and continue Random playback from there.
- Select "Random Off" if you do not need the Random function after all.



# DVD Video Disc Functions (continued)

## Audio Playback Settings

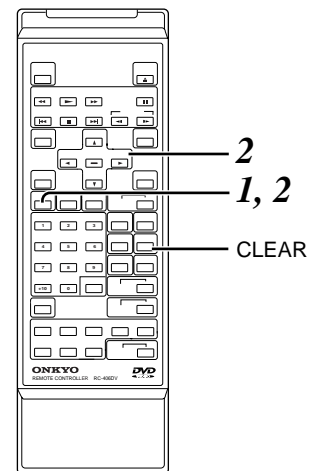


Your DV-C600 allows you to select the following audio-related settings. The number of options depends on the DVD video disc you are playing back. It is not possible to select an option for which there is no data on the DVD.

**Language:** A DVD video disc may contain several language versions of a movie. Select the preferred language.

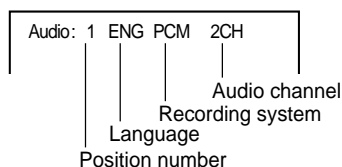
**Recording system:** Select the recording system that best matches the input capabilities of your amplifier or receiver. For example, there is little point in selecting " 6CH" if your amplifier does not support Dolby Digital 5.1. Depending on the selected recording system, the DV-C600 automatically converts the audio data to an acceptable format for your amplifier.

The DV-C600 accepts the Dolby Digital, DTS, and PCM recording systems. Other systems cannot be played back. See also the conversion table below for details about the available options. Dolby Digital 5.1 Channel is displayed as " 6CH."



**1** Press the **AUDIO** button during playback of a DVD video disc.

The current Audio settings are displayed for about 3 seconds.



See page 39 for a list of abbreviations of the available languages and their meaning.

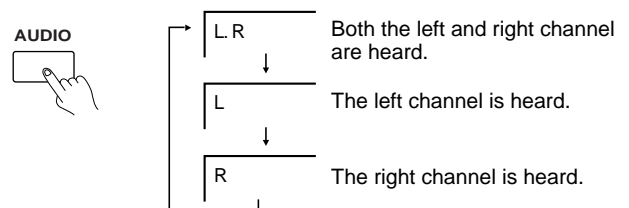


**3** After making the desired settings, either wait more than 3 seconds, or press the **CLEAR** button to leave the Audio page.

### Selecting Sound Channels of Video CDs

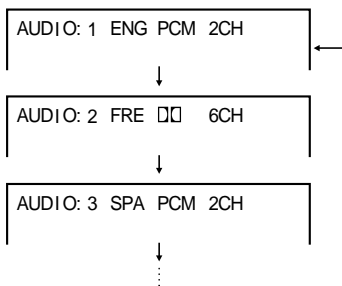
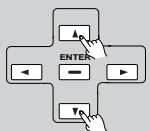
A Video CD may have left and right sound channels with different information (sound track on one channel, dialogues on the other; or one language on one channel, and another on the second channel, etc.). You can select the desired channel:

**During playback, press AUDIO repeatedly to select the sound channel.**



**2** Press the **AUDIO** or **▲** button while the above Audio page is still displayed (i.e. within 3 seconds).

Pressing one of these buttons cycles through the available options.



Use the **▼** button to cycle in the opposite direction.

**Notes:**

- Some discs allow you to change Audio settings only via the disc menu. In that case, press the MENU button and choose the desired language.
- The Audio settings are not saved internally. When you switch off the DVD Changer or open the disc tray, the DV-C600 returns to the default setting. See page 34.
- When you select an option that is not available on the selected DVD video disc, the DV-C600 ignores your setting and goes on using the previously selected language, etc.

**Recording Systems and Automatic Conversions**

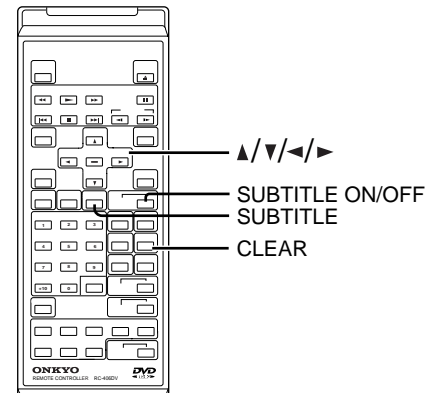
Here are all the Recording systems formats the DV-C600 supports as well as the conversions that will be carried according to the Recording system you select (see page 28).

**Output sound conversion table (sampling frequency/quantization bit)**

Discs	Sound recording system	Audio settings on the setting screen (page 32, 36)						
		Bitstream		Analog 2ch Stereo Output		PCM		
		DIGITAL OUTPUT jack	ANALOG OUTPUT jacks	DIGITAL OUTPUT jack	ANALOG OUTPUT jacks	DIGITAL OUTPUT jack	ANALOG OUTPUT jacks	
DVD video discs	Dolby Digital	Bitstream	48 kHz/16 bit	Bitstream	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	
	Linear PCM	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	
		48 kHz/20 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/20 bit	48 kHz/16 bit	48 kHz/16 bit
		48 kHz/24 bit	48 kHz/16 bit	48 kHz/16 bit	–	48 kHz/24 bit	48 kHz/16 bit	48 kHz/16 bit
		96 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	–	96 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
		96 kHz/20bit	48 kHz/16 bit	48 kHz/16 bit	–	96 kHz/20 bit	48 kHz/16 bit	48 kHz/16 bit
		96 kHz/24 bit	48 kHz/16 bit	48 kHz/16 bit	–	96 kHz/24 bit	48 kHz/16 bit	48 kHz/16 bit
	DTS	Bitstream	–	Bitstream	–	–	–	
MPEG 2	Bitstream(7.1ch)	–	Bitstream(2ch)	48kHz/16bit	48kHz/16bit	48kHz/16bit		
VIDEO CDs	MPEG1	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	
Audio CDs	Linear PCM 44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	44.1 kHz/16 bit	
	DTS	Bitstream	(Noise)	Bitstream	(Noise)	Bitstream	(Noise)	

# DVD Video Disc Functions (continued)

## Using the Subtitle Feature



Some DVD video discs also contain subtitles – sometimes even in several languages. Here is how to display them and select the language (if several languages are available).

### Selecting the Subtitle Language

- 1** **SUBTITLE**

Press the **SUBTITLE** button during playback.

The current subtitle setting is displayed for about three seconds.

Subtitle: 1 ENG On

|

Language

Position number

Refer to the list of languages and their abbreviations. See page 39.
- 2** **SUBTITLE**

Press the **SUBTITLE** or **▲** button during the above page is displayed.

Repeatedly press the **SUBTITLE** or **▲** button to cycle through the options. You can only select a subtitle language for which there are data on the selected DVD video disc.

Subtitle: 1 ENG On

↓

Subtitle: 2 FRE On

↓

Subtitle: 3 SPA On

⋮

You can also use **▼** button to cycle through the options in the opposite direction.
- 3** **CLEAR**

Press the **CLEAR** button to hide the above indication.

### Turning Subtitles On or Off

- 1** **SUBTITLE ON/OFF**

Press the **SUBTITLE ON/OFF** button during playback.

The current subtitle setting is displayed for about three seconds.

Subtitle: 1 ENG On

Appears for about 3 seconds

Good morning!

Subtitles

The subtitles are displayed at the bottom of the screen.
- 2** **SUBTITLE ON/OFF**

Press the **SUBTITLE ON/OFF** button again to turn the subtitles off.

Subtitle: 1 ENG Off

Appears for about 3 seconds

The subtitles disappear.

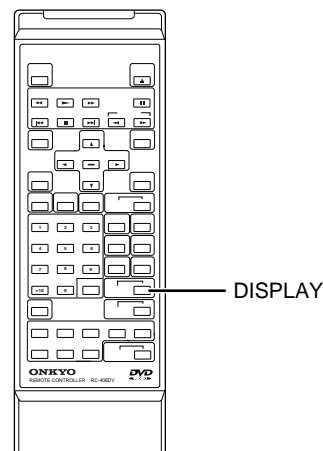
#### Notes:

- Some DVD video discs are set to display subtitles automatically. In that case, you cannot switch off the subtitle function.
- For certain scenes, the subtitle function takes a little longer to become effective (due to heavy data processing). Switching on subtitles may thus not always have an immediate effect.
- Some DVD video discs also allow you to select the language and status of the subtitles via the disc menu.
- See page 39 for a list of abbreviations of the available languages and their meaning.
- The Subtitle settings are not saved internally. When you switch off the DVD Changer or open the disc tray, the DV-C600 returns to the default settings. See page 34.
- When you select an option that is not available on the selected DVD video disc, the DV-C600 ignores your setting and goes on using the previously selected language, etc.

# Using The On-Screen Display Functions

Information about a disc and its operational status can be monitored on your TV screen. If you want to take advantage of this feature for audio CDs, please remember to connect the DV-C600 to your TV set (see pages 10 and 11) and to switch it on.

Please note that the information provided on screen is only for reference purposes and cannot be changed.



DVD VCD CD

## Requesting Basic Information

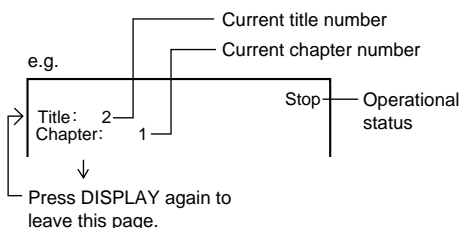
This operation allows you to view the current title number, track number, and total playing time of the disc on the TV screen.



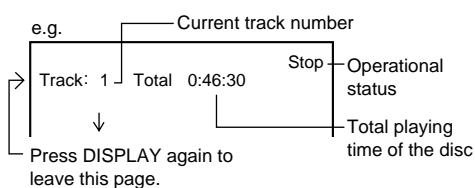
**Stop playback and press the DISPLAY button.**

Each time you press the DISPLAY button, the on-screen display changes as follows:

### DVD video disc



### VIDEO CD/Audio CD



DVD VCD CD

## More Specific Information: Remaining Time and Setting Status

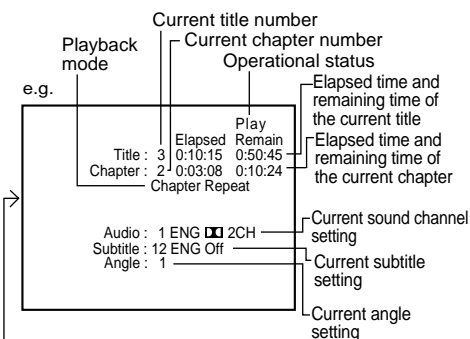
You can also view the elapsed time, remaining time, and setting status of the disc on the TV screen. Though the operation is almost exactly the same as for requesting general information, please note that you need to start playback before being able to access this information.



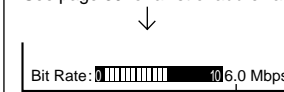
**Press the DISPLAY button during playback.**

Each time you press the DISPLAY button, the on-screen display changes as follows.

### DVD video disc



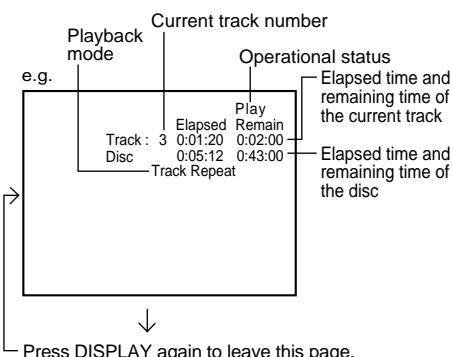
See page 39 for a list of abbreviations of the languages.



Bit Rate (Mbit/sec): Amount of picture, sound and subtitle data on the DVD video disc transferred per second. The larger the value, the more data need to be processed. Please note that the amount of data provides no information about the picture quality.

Press DISPLAY again to leave this page.

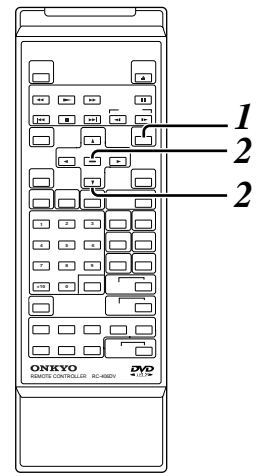
### VIDEO CD/ Audio CD



# Advanced Settings

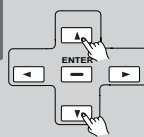

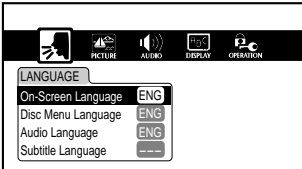

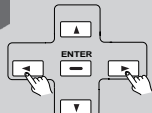





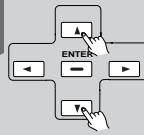

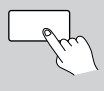



The DV-C600 contains a lot more functions than have been covered so far. Most of these functions can only be accessed via the on-screen menu. Please note that not all available functions apply to all disc types supported by the DV-C600. Setting the language, for instance, has no effect for audio CDs.



DVD VCD CD

## Setting Procedure

<p>1</p>	<p>Switch on your TV set.</p>	<p>3</p>  <p>Use the ▲ / ▼ buttons to choose a function below the selected icon, and confirm by pressing the ENTER button.</p>
<p>2</p>  <p>Stop playback and press the <b>SETUP</b> button.</p> <p>The following on-screen menu appears:</p> 		<p>ENTER</p> 
<p>3</p>  <p>Use the ◀ / ▶ buttons to select the menu heading (icon) that provides access to the desired function.</p> <p>See the next page for an overview of the available functions. Here is what the icons stand for:</p>  <p>Language-related settings.</p>  <p>Picture-related settings.</p>  <p>Audio output settings.</p>  <p>Settings related to the on-screen menu function.</p>  <p>General utility settings.</p>		<p>4</p>  <p>Enter the desired value with the ▲ / ▼ buttons and confirm by pressing the ENTER button.</p> <p>For the OPERATION function, you will also need the ◀ / ▶ buttons. The exact procedure will be explained in that section.</p> <p>ENTER</p> 
		<p>5</p> <p>Repeat steps 4 and 5 to change other settings.</p>
		<p>6</p>  <p>Press the <b>SETUP</b> button to switch off the on-screen menu.</p>  <p>Press the <b>RETURN</b> button to return to the previous display.</p> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• Though the SETUP button may also work during normal playback, certain functions may not be accessible. In that case, a warning message is displayed. Stop playback and press SETUP again to be able to select the desired function.</li> </ul>



Setting		Details	Page
On-Screen Language	DVD VCD CD	Allows you to select the language of the on-screen displays.	34
Disc Menu Language	DVD	Allows you to select the language to be used by the disc menus (menus included on the discs you are playing back).	34
Audio Language	DVD	Allows you to select the sound track language.	34
Subtitle Language	DVD	Allows you to select the subtitle language.	34



TV Shape	DVD	Allows you to adapt the picture size to the aspect ratio of your TV.	35
Black Level	DVD VCD	Allows you to set the "blackness" of the screen.	35



Audio Out Select	DVD VCD CD	Allows you to select the audio outputs (digital or analog) and/or the output format of the digital audio data.	36
Dynamic Range Control	DVD	Allows you to reduce the dynamic range of the audio data (i.e. to reduce the difference between loud and soft sounds).	36
Karaoke Vocal	DVD	Allows you to switch on or mute the vocal track of a DVD Karaoke disc.	36
Extended Audio Features	DVD	Allows you to activate or mute the Extended Audio track for visually impaired persons.	36

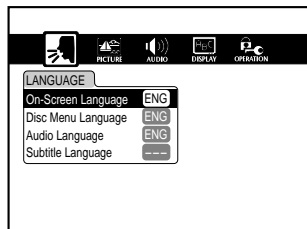


On-Screen Displays	DVD VCD CD	Allows you to decide against having the operation status icons displayed on the TV screen.	37
OSD Background Color	DVD VCD CD	Allows you to select the background color for on-screen displays.	37
Extended Subtitle Features	DVD	Allows you to activate or switch off special subtitles for hearing-impaired persons.	37
Screen Saver	DVD VCD	Allows you to switch on or off the screen saver function.	37



Pause/Still	DVD	Allows you to select the resolution of still pictures. (Field/Frame)	37
Parental Lock	DVD	Allows you to set on or switch off the Parental Lock function.	37
Title Stop	DVD	Allows you to switch on or off a feature that automatically stops playback after a Title is finished.	38
PBC	VCD	To select to playback a PBC- controllable video CD.	38

# Advanced Settings (continued)



## LANGUAGE Functions

### On-Screen Language

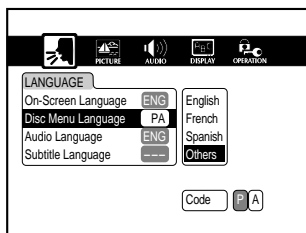
This function allows you to select the language for the on-screen displays.

- English
- French
- Spanish

### Disc Menu Language

This function allows you to select the language used by the disc menus. Note that you can only select a language supported by the DVD video disc in question.

- English
- French
- Spanish
- Others : To select another language than the above, proceed as follows:
  - a) Press the ENTER button.
  - b) See the list on page 39 for the abbreviation of the desired language.
  - c) Enter the first character of the abbreviation with the ▲ / ▼ buttons (see the Code field).
  - d) Move the cursor to the second position and use ▲ / ▼ for entering the second character of the abbreviation.



- e) Press the ENTER button.

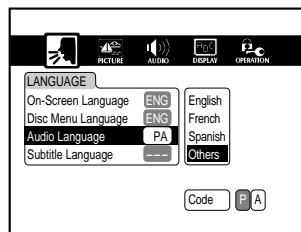
#### Note:

Some DVD video discs may not include the desired language. In that case, the DVD Changer automatically switches to the disc's default disc menu language.

### Audio Language

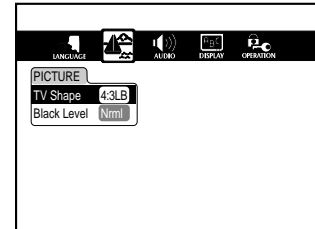
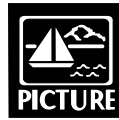
If the DVD video disc you are playing back contains multilingual soundtracks, Audio Language allows you to select the desired language.

- English
- French
- Spanish
- Others : To select another language than the above, see steps (a) – (e) under “Disc Menu Language”.



#### Note:

Some DVD video discs could be played back in a different language than the one you selected. This is usually due to the fact that the disc contains a preset language selection.

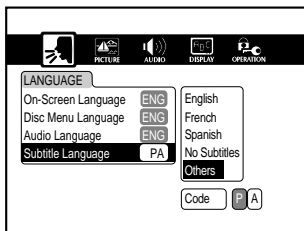


## PICTURE Settings

### Subtitle Language

Use this function to select the subtitle language, or to switch the subtitles off altogether.

- English
- French
- Spanish
- No Subtitle (subtitles are switched off)
- Others: To select another language than the above, see steps (a) – (e) under “Disc Menu Language”.



#### Notes:

- If DVD video disc contains a preset subtitle language setting, your selection is ignored.
- Some DVD video discs allow you to change the subtitle language only via the disc menu. If so, press the MENU button and choose the desired subtitle language from the disc menu.

### TV Shape

This is where you can specify the shape of your TV screen. This is important for determining whether you would like to see the whole picture, or a slightly bigger version.

#### 4:3 Letterbox:

Select this setting if you own a standard 4:3 TV set and want to see the whole picture. In that case, masking bars are inserted above and below the picture.



#### 4:3 Normal:

Select this setting for a standard 4:3 TV set if you want the picture to fill the entire screen. In that case, the left and right borders may fall outside the screen's scope.



#### 16:9 Widescreen:

Select this setting for a 16:9 wide-screen TV.

#### Notes:

- The picture size is preset on the DVD video disc. Therefore, the playback picture may not conform to the picture size you select.
- When you play DVD video discs that only contain 4:3 picture size information, any other TV Shape setting you may select is ignored.
- If you select “16:9 Widescreen” while your TV set is equipped with a 4:3 screen, the picture will be horizontally distorted (compressed) during playback. Always set the TV Shape function according to the TV set you are using.

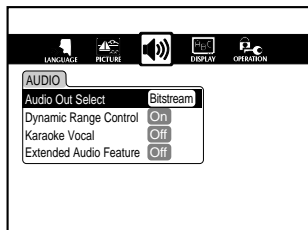
### Black Level

This function allows you to optimize the black picture content (true black instead of dark gray), and hence the video quality.

**Enhanced:** Enhanced black level. (0 IRE)

**Normal:** Standard black level. (7.5 IRE)

# Advanced Settings (continued)



## AUDIO Settings

### Audio Out Select

This function allows you to select the outputs and format for audio playback. Always select the setting that best matches your amplifier's capabilities and input connectors. The "Bitstream" and "PCM" options refer to the DV-C600's digital outputs. See also "Other Audio Playback Options" on page 12.

**Bitstream:** Select this option if your amplifier is equipped with a digital input (optical or coaxial) and a Dolby Digital, DTS, MPEG1, or MPEG2 decoder. The DV-C600 outputs digital audio information in the Bitstream format when you play back a DVD video disc with Dolby Digital, DTS, MPEG1, or MPEG2 encoding.

**Analog2Ch:** Select this option if the DV-C600 is connected to the audio inputs of your TV set, or an analog input pair of your external amplifier. Note that even this analog connection may allow you to take advantage of the amplifier's Dolby Pro Logic processor.

**PCM:** Select this option if the DV-C600 is connected to a digital input of your amplifier and if you would like the sound to be played back in stereo (e.g. for audio CDs). If you select "PCM", the audio data of DVD video discs with Dolby Digital, MPEG1, or MPEG2 encoding is automatically converted to 2-channel PCM, so that you lose the surround information. See also the table on page 29.

### Dynamic Range Control

Dynamic Range Control allows you to "compress" the dynamic range of a DVD's sound track, so that you can lower the volume without losing extremely soft signals. This is especially useful when you are watching a movie late at night.

**Off:** The full dynamic range is maintained.

**On:** Low-level signals are slightly boosted so as to remain audible at a low volume setting.

#### Notes:

- This function is only available during playback of Dolby Digital-encoded DVD video discs.
- The degree of dynamic range reduction may differ depending on the DVD video disc.

### Karaoke Vocal

DVD Karaoke discs sometimes also contain a vocal track you probably don't need for Karaoke applications. That is why the DV-C600 allows you to switch the lead vocal off.

**Off:** The lead vocal track is muted.

**On:** If available on the selected DVD Karaoke disc, the lead vocal track is output.

#### Notes:

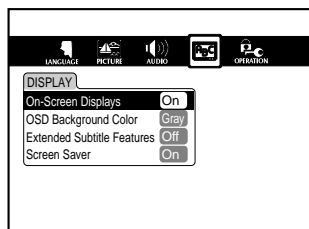
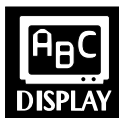
- The Karaoke Vocal feature is only available during playback of Dolby Digital-encoded (multi-channel) DVD Karaoke discs.
- For optimum Karaoke enjoyment, be sure to use appropriate audio equipment, such as an external amplifier.

### Extended Audio Feature

Some DVD video discs contain a special track that describes the on-screen actions for visually impaired persons. Your DV-C600 is set to automatically output this track if available. If this is not necessary, switch this function off.

**Off:** The Extended Audio Feature track is muted.

**On:** The Extended Audio Feature is active.



## DISPLAY Settings

### On-Screen Displays

This function allows you to activate or suppress the display of on-screen icons that inform you about the operational status.

**Off:** Operational icons or messages (e.g. "Play", "⏸") are not displayed.

**On:** Operational icons or messages (e.g. "Play", "⏸") are displayed on-screen.

### OSD Background Color

This function allows you to select the background color for the on-screen menu.

**Blue:** Blue background.

**Gray:** Gray background.

### Extended Subtitle Features

Some DVD video discs contain special subtitles, an enhancement of closed captioning for hearing-impaired persons. The DVD Changer automatically displays these special subtitles.

**Off:** The special subtitles are not displayed.

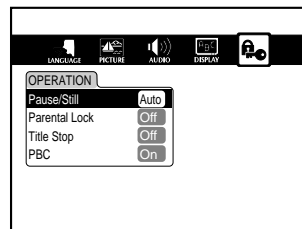
**On:** The special subtitles are displayed.

### Screen Saver

The screen saver function protects your TV screen from burn-in of images that are displayed for too long. If you also work with a computer, you probably know how it works. The screen saver is especially useful if you often use the Pause ("still") function and tend to forget to switch it off. See page 16.

**Off:** The screen saver will not blank out the screen after the delay time has elapsed.

**On:** The screen saver will come on whenever necessary.



## OPERATION Settings

### Pause/Still

This function allows you to obtain an even better quality for still pictures. Such pictures are displayed when you pause playback of a DVD video disc. See also page 16.

**Auto:** For normal use. The image quality should be sufficient for most applications.

**Frame:** Still pictures are clearer thanks to a higher resolution.

### Parental Lock

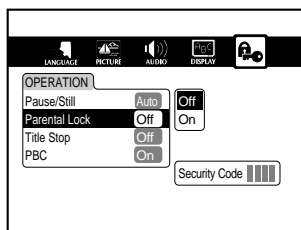
DVD video discs equipped with the Parental Lock function allow you to decide what exactly can be viewed on your DV-C600, which is especially useful if you have children. For example: you could select a level where violent scenes unsuitable for children are skipped and replaced with more suitable scenes, or prevent playback of a disc altogether.

Whether the Parental Lock function actually works depends on the DVD video disc in question, because it needs to contain the software capable of responding to this function. Parental Lock is secured by means of a 4-digit code to avoid that your children bypass this function.

Ask your dealer or rental service for details about the Parental Lock support of a given DVD video disc. Also note that the meaning of the Parental Lock levels depends on the country whose rating standards are used by the DVD video disc.

**Off:** The Parental Lock feature is not active. To select the "Off" setting, perform steps 1 and 2 below.

**On:** Switching on Parental Lock involves specifying the highest level that can be viewed. You cannot just switch this function on without selecting a level. Careful: if you only carry out steps 1 and 2, Parental Lock will be switched off. Be sure to perform steps 1 – 4 below.



1. Press the ENTER button.

2. Enter the 4-digit code via the numeric buttons on the remote controller, and press the ENTER button.

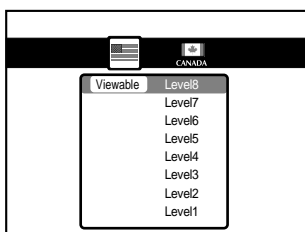
If you entered the wrong code, press the CLEAR button before pressing ENTER, and enter your 4-digit code again.

# Advanced Settings (continued)

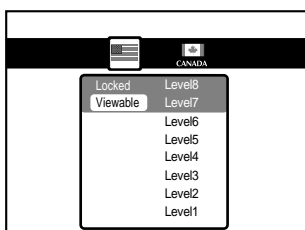
## OPERATION Settings (continued)

3. Press the ◀ / ▶ buttons to select the country whose standards were used to rate the DVD video disc.

See the information supplied with the DVD for details.



4. Press the ▲ / ▼ buttons to select the Parental Lock level, then press the ENTER button.



It is now impossible to play back DVD video discs rated higher than the selected level. For example, when you select level 7 (“Viewable”), discs rated higher than level 7 are locked out (“Locked”) and cannot be played back.

The Parental Lock level is equivalent to the following USA movie ratings:

- Level 7: NC-17
- Level 6: R
- Level 4: PG 13
- Level 3: PG
- Level 1: G

The parental lock levels for “Canada” are included for future use. Since they are different from the US ratings, carefully check what they correspond to before buying new DVD video discs with the Canadian Parental Lock system as they become available.

### ■ Changing the Parental Lock level

Perform steps 2 – 4 above.

### ■ Changing the 4-digit Code

- a) After selecting a level or “Off,” press the STOP button four times, followed by the ENTER button.



The current 4-digit code is cleared.

- b) Press the numeric buttons to enter a new 4-digit security code.
- c) Press the ENTER button.  
Be sure to either memorize this code or to write down and store it in a safe place.

### Title Stop

This function allows you to specify what happens when the DV-C600 reaches the end of a DVD Title.

- Off:** The DV-C600 continues after playback of a Title is completed. Selecting this option also changes the behavior of the DOWN ◀◀ and UP ▶▶ buttons. See “Selecting the Next/Previous Chapter or Track” on page 19.
- On:** The DV-C600 stops after playback of a title is completed.

### PBC (Playback Control)

- Off:** The menu screen of the selected Video CD (if available) is not displayed.
- On:** The menu screen of a Video CD with PBC functionality is displayed on screen.

# Table of Languages

## Table of Languages and Their Abbreviations

Abbreviation of the Language	Language	Abbreviation of the Language	Language	Abbreviation of the Language	Language	Abbreviation of the Language	Language
—	No alternate language	EO	Esperanto	LN	Lingala	SL	Slovenian
CHI (ZH)	Chinese	ET	Estonian	LO	Laotian	SM	Samoan
DUT (NL)	Dutch	EU	Basque	LT	Lithuanian	SN	Shona
ENG (EN)	English	FA	Persian	LV	Latvian, Lettish	SO	Somali
FRE (FR)	French	FI	Finnish	MG	Malagasy	SQ	Albanian
GER (DE)	German	FJ	Fiji	MI	Maori	SR	Serbian
ITA (IT)	Italian	FO	Faroese	MK	Macedonian	SS	Siswati
JPN (JA)	Japanese	FY	Frisian	ML	Malayalam	ST	Sesotho
KOR (KO)	Korean	GA	Irish	MN	Mongolian	SU	Sudanese
MAY (MS)	Malay	GD	Scottish Gaelic	MO	Moldavian	SV	Swedish
SPA (ES)	Spanish	GL	Galician	MR	Marathi	SW	Swahili
AA	Afar	GN	Guarani	MT	Maltese	TA	Tamil
AB	Abkhazian	GU	Gujarati	MY	Burmese	TE	Telugu
AF	Afrikaans	HA	Hausa	NA	Nauru	TG	Tajik
AM	Amharic	HI	Hindi	NE	Nepali	TH	Thai
AR	Arabic	HR	Croatian	NO	Norwegian	TI	Tigrinya
AS	Assamese	HU	Hungarian	OC	Occitan	TK	Turkmen
AY	Aymara	HY	Armenian	OM	(Afan) Oromo	TL	Tagalog
AZ	Azerbaijani	IA	Interlingua	OR	Oriya	TN	Setswana
BA	Bashkir	IE	Interlingue	PA	Panjabi	TO	Tongan
BE	Belorussian	IK	Inupiak	PL	Polish	TR	Turkish
BE	Belorussian	IN	Indonesian	PS	Pashto, Pushto	TS	Tsonga
BG	Bulgarian	IS	Icelandic	PT	Portuguese	TT	Tatar
BH	Bihari	IW	Hebrew	QU	Quechua	TW	Twi
BI	Bislama	JI	Yiddish	RM	Rhaeto-Romance	UK	Ukrainian
BN	Bengali, Bangla	JW	Javanese	RN	Kirundi	UR	Urdu
BO	Tibetan	KA	Georgian	RO	Romanian	UZ	Uzbek
BR	Breton	KK	Kazakh	RU	Russian	VI	Vietnamese
CA	Catalan	KL	Greenlandic	RW	Kinyarwanda	VO	Volapük
CO	Corsican	KM	Cambodian	SA	Sanskrit	WO	Wolof
CS	Czech	KN	Kannada	SD	Sindhi	XH	Xhosa
CY	Welsh	KS	Kashmiri	SG	Sango	YO	Yoruba
DA	Danish	KU	Kurdish	SH	Serbo-Croatian	ZU	Zulu
DZ	Bhutani	KY	Kirghiz	SI	Singhalese		
EL	Greek	LA	Latin	SK	Slovak		

# Troubleshooting

If your DV-C600 does not seem to work as expected, check the following table for the possible cause before contacting your ONKYO dealer or service.

## Symptoms and Corrections

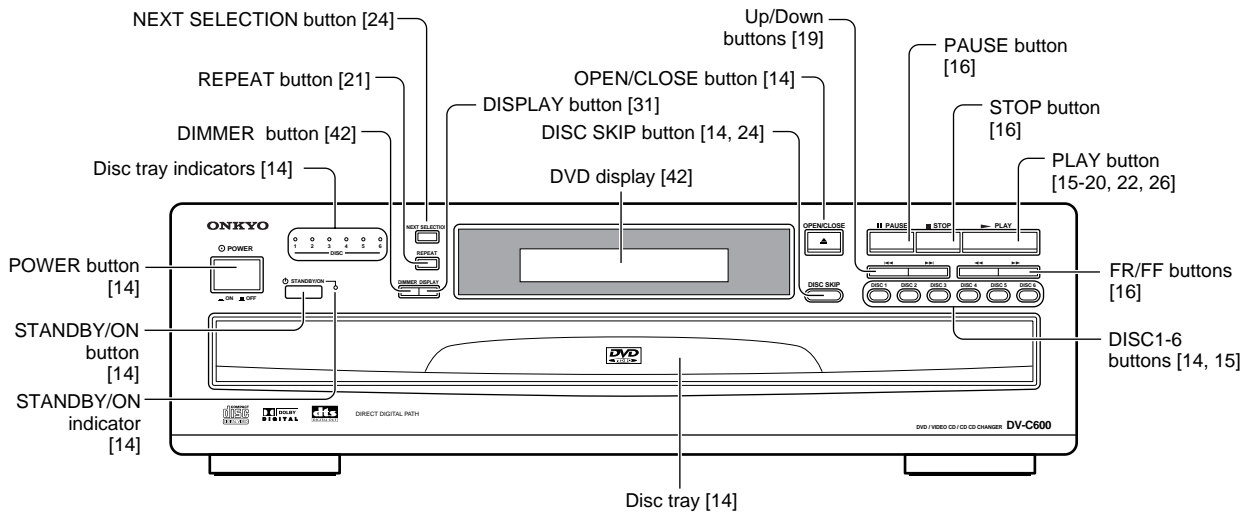
Symptom	Cause	Correction	Page
No power.	<ul style="list-style-type: none"> <li>The power plug is disconnected.</li> </ul>	<ul style="list-style-type: none"> <li>Insert the power plug firmly.</li> </ul>	10, 11
No picture.	<ul style="list-style-type: none"> <li>The TV is not set to receive DVD signal output.</li> </ul>	<ul style="list-style-type: none"> <li>Select the appropriate video input mode on the TV so that the DV-C600's picture appears on the TV screen.</li> </ul>	14
	<ul style="list-style-type: none"> <li>The video cable is not securely connected.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the video cable into the jacks securely.</li> </ul>	10-13
No sound.	<ul style="list-style-type: none"> <li>The DV-C600 has not been selected as input source on the amplifier or receiver.</li> </ul>	<ul style="list-style-type: none"> <li>Select the input source on the amplifier or receiver that corresponds to the input(s) the DV-C600 is connected to.</li> </ul>	14
	<ul style="list-style-type: none"> <li>The audio cables are not securely connected.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the audio cable securely.</li> </ul>	10-13
	<ul style="list-style-type: none"> <li>The device you connected the DV-C600's audio outputs to is switched off.</li> </ul>	<ul style="list-style-type: none"> <li>Switch on the amplifier or receiver.</li> </ul>	—
	<ul style="list-style-type: none"> <li>The output sound type setting is not correct.</li> </ul>	<ul style="list-style-type: none"> <li>Select the appropriate audio settings.</li> </ul>	29,32 36
The picture occasionally distorts.	<ul style="list-style-type: none"> <li>The disc is dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Eject the disc and clean it.</li> </ul>	9
	<ul style="list-style-type: none"> <li>The Fast Forward or Fast Reverse function is active.</li> </ul>	<ul style="list-style-type: none"> <li>Sometimes a small amount of picture distortion may be noticeable. This is not a malfunction.</li> </ul>	—
Unstable brightness or picture noise.	<ul style="list-style-type: none"> <li>This is caused by the copy protection signal.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the DV-C600 directly to the TV. Never route its picture signal via a VCR or other video device ("daisy chain").</li> </ul>	10
The DV-C600 won't start playback.	<ul style="list-style-type: none"> <li>No disc is inserted.</li> </ul>	<ul style="list-style-type: none"> <li>Insert a disc. (Check whether the "DVD", "VCD" or "CD" indicator lights.)</li> </ul>	42
	<ul style="list-style-type: none"> <li>The inserted disc cannot be read.</li> </ul>	<ul style="list-style-type: none"> <li>Insert a playable disc. (Check the disc type and color system.)</li> </ul>	9
	<ul style="list-style-type: none"> <li>The disc is placed upside down.</li> </ul>	<ul style="list-style-type: none"> <li>Insert the disc with the playback side down.</li> </ul>	14
	<ul style="list-style-type: none"> <li>The disc is not placed within the guide.</li> </ul>	<ul style="list-style-type: none"> <li>Place the disc correctly inside the guide.</li> </ul>	14
	<ul style="list-style-type: none"> <li>The disc is dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the disc.</li> </ul>	9
	<ul style="list-style-type: none"> <li>The Parental Lock function is on.</li> </ul>	<ul style="list-style-type: none"> <li>Cancel the Parental Lock function or select another Parental Lock level.</li> </ul>	32,37
You hear a voice that describes the action.	<ul style="list-style-type: none"> <li>The DVD video disc contains an Extended Audio Feature track that is being played back.</li> </ul>	<ul style="list-style-type: none"> <li>Switch off the Extended Audio Feature.</li> </ul>	36
The buttons do not work.	<ul style="list-style-type: none"> <li>Power supply fluctuations or other abnormalities such as static electricity may interrupt correct operation.</li> </ul>	<ul style="list-style-type: none"> <li>Turn the power on or off with the POWER button. Or disconnect the power plug and insert it into the wall outlet again.</li> </ul>	—
The remote controller does not work properly.	<ul style="list-style-type: none"> <li>The remote controller is not pointed at the remote sensor of the DVD Changer.</li> </ul>	<ul style="list-style-type: none"> <li>Point the remote controller at the remote sensor of the DVD Changer.</li> </ul>	8
	<ul style="list-style-type: none"> <li>The remote controller is too far from the DVD Changer.</li> </ul>	<ul style="list-style-type: none"> <li>Operate the remote controller within about 5 m.</li> </ul>	8
	<ul style="list-style-type: none"> <li>The batteries in the remote controller are exhausted.</li> </ul>	<ul style="list-style-type: none"> <li>Replace the batteries with new ones.</li> </ul>	8

This unit contains a sensitive microcomputer that, under certain circumstances, might fail to operate due to excessive noise interference. In such case, disconnect the power cord from the wall outlet, wait five seconds and connect the power cord again.

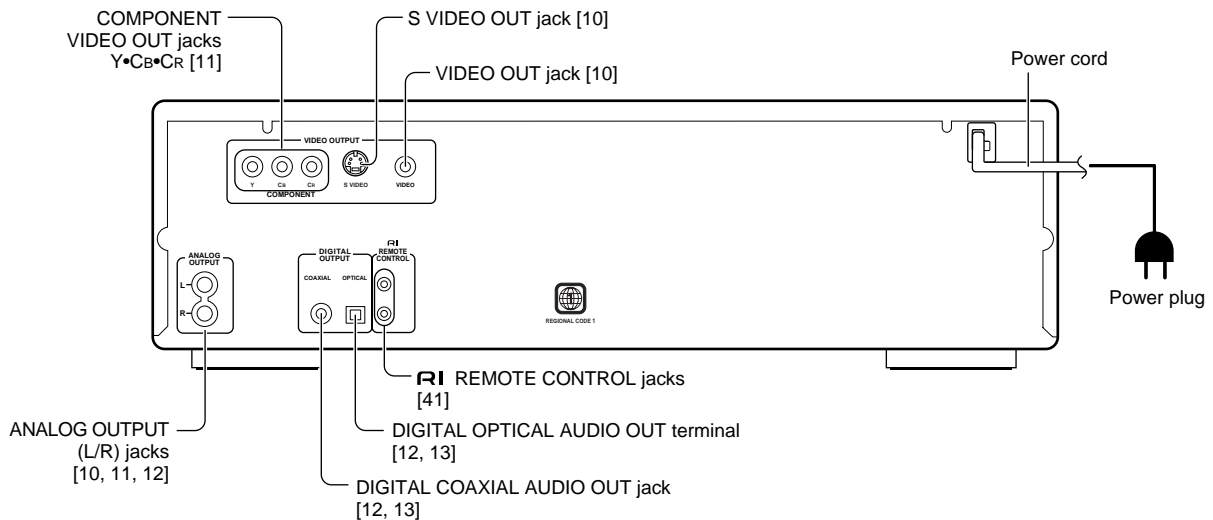
# Identification of Controls

See the pages in [ ] for details.

## Front Panel



## Rear Panel



### Connections for System Remote Controller ( RI )

If you own several **RI**-compatible ONKYO devices, be sure to connect their **RI** jacks to one another. This will allow you to use the remote controller of the main component (e.g. the amplifier) to control the entire system.

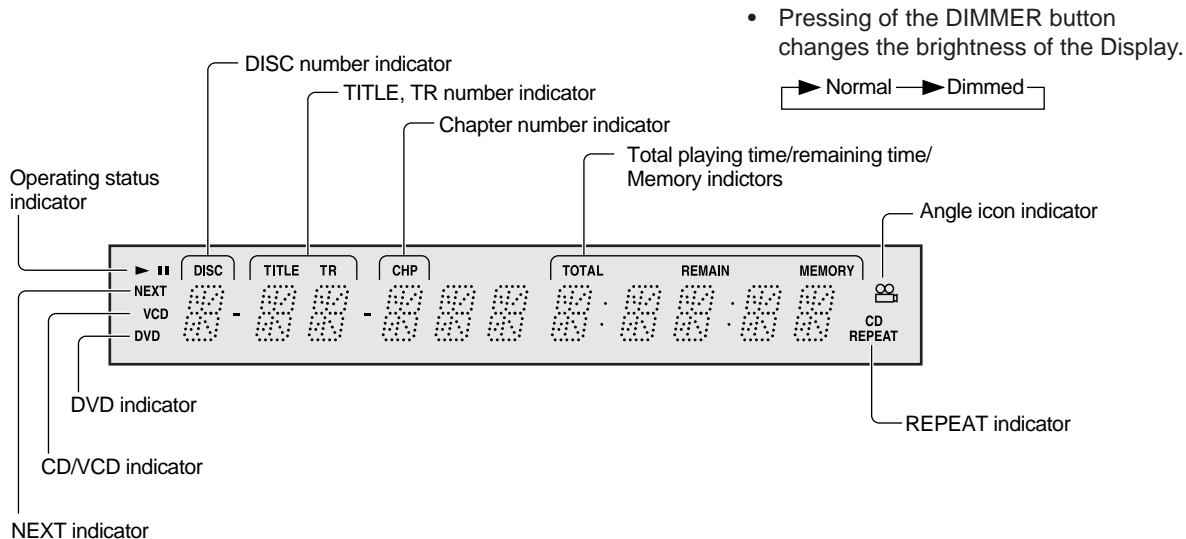
1. To use this DVD Changer with an amplifier (or receiver), cassette tape deck, and tuner with the **RI** symbol, insert the remote controller cable plugs into the **RI** REMOTE CONTROLLER jacks.
2. As the connection order of the **RI** bus is unimportant, you could also connect one of the DV-C600's REMOTE CONTROLLER jacks to the tuner, the cassette tape deck, amplifier/receiver, or the compact disc player.
3. When using the remote controller of an **RI**-equipped ONKYO amplifier (or receiver) to operate the entire **RI** bus, the remote controller must be pointed at the sensor of the amplifier (or receiver).

### Notes:

- The upper and lower **RI** REMOTE CONTROLLER jacks have the same function.
- Remote controller operation is not possible when only the remote controller cable is connected — the audio jacks must also be connected.
- One **RI** remote controller cable equipped with a 1/8" (3.5mm) diameter miniature two-conductor phone plug is included with the DV-C600 and with every ONKYO tuner, compact disc player or cassette tape deck with the **RI** symbol.

# Identification of Controls (continued)

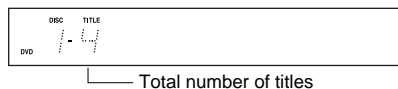
## DVD Display



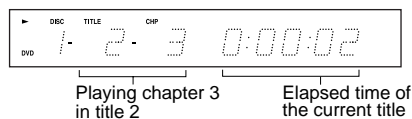
■ The indicators vary depending on the kinds of discs you play.

### ■ DVD Video disc

- When closing the disc tray:  
Example



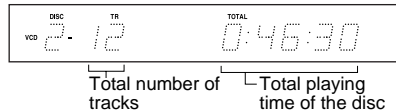
- During playback:  
Example



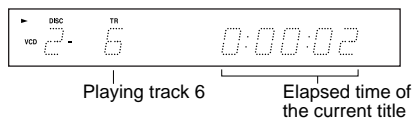
Some DVD video discs may not display the chapter numbers or elapsed time.

### ■ VIDEO CD

- When closing the disc tray:  
Example



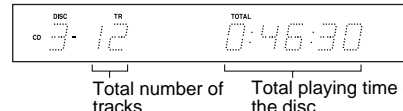
- During playback:  
Example



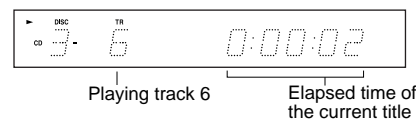
Some VIDEO CDs may not display the track numbers or elapsed time.

### ■ Audio CD

- When closing the disc tray:  
Example

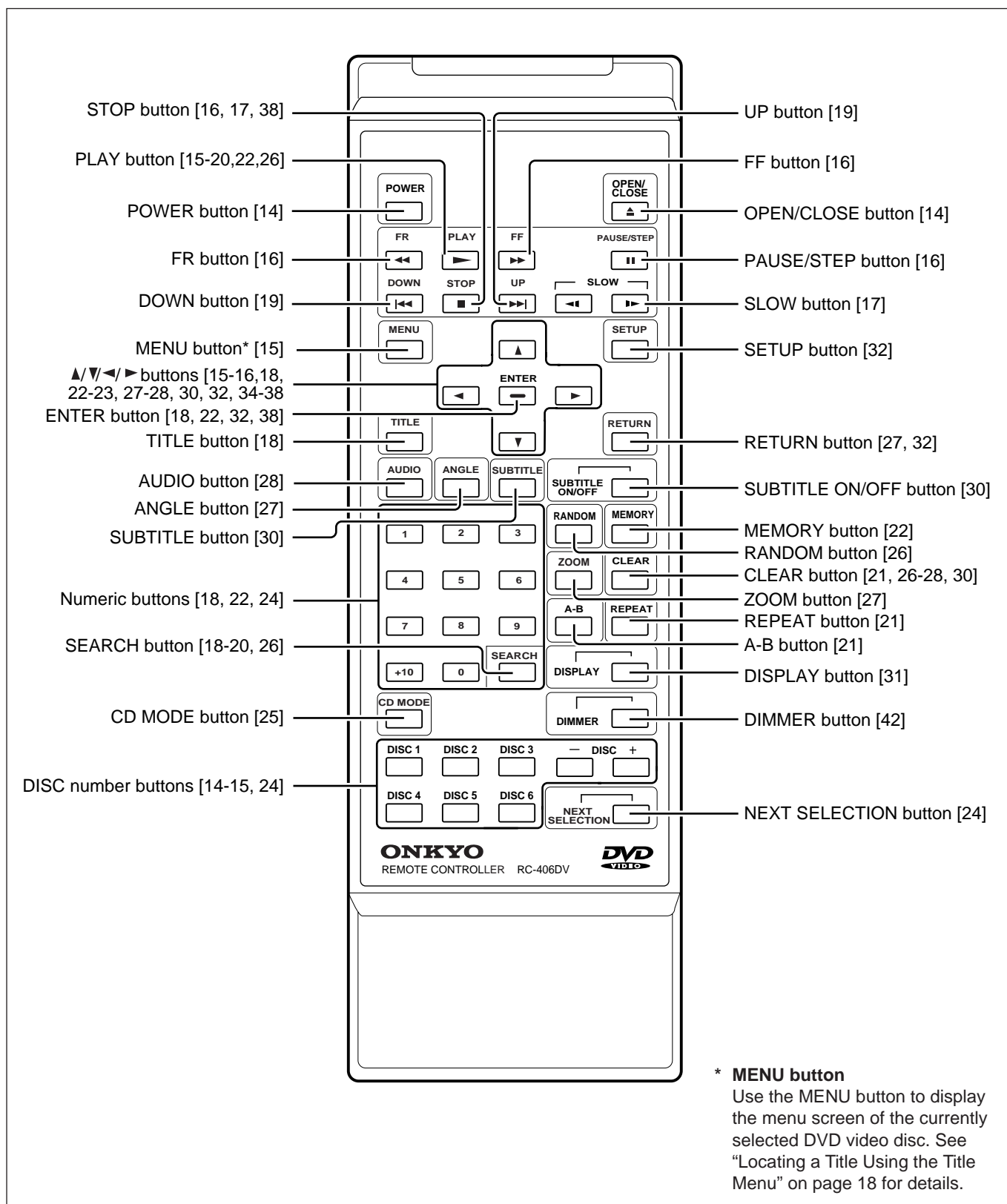


- During playback:  
Example



Most steps in this manual need to be performed using the supplied remote controller. That is why the functions of the remote controller's buttons are explained in the relative chapters and sections. See the pages in [ ] for details.

## Remote Controller



# Specifications

## DVD Changer/Outputs

### DVD Changer

Power supply	AC 120 V, 60 Hz
Power consumption	19 W
Weight	7.0 kg
External dimensions	435 X 121 X 433 mm (W/H/D)
Signal system	Standard NTSC
Laser	Semiconductor laser, wavelength 650 nm
Frequency range (digital audio)	DVD linear sound : 48 kHz sampling 4 Hz to 22 kHz 96 kHz sampling 4 Hz to 44 kHz Audio CD : 4 Hz to 20 kHz
Signal-to-noise ratio (digital audio)	More than 96 dB (EIAJ)
Audio dynamic range (digital audio)	More than 90 dB (EIAJ)
Harmonic distortion (digital audio)	Less than 0.01 %
Wow and flutter	Below measurable level (less than $\pm 0.001$ % (W.PEAK)) (EIAJ)
Operating conditions	Temperature: 5°C to 35°C (41 to 95 degrees), Operation status: Horizontal

### Outputs

Video output	1.0 V (p-p), 75 $\Omega$ , negative sync., pin jack X 1
S video output	(Y) 1.0 V (p-p), 75 $\Omega$ , negative sync., Mini DIN 4-pin X 1 (C) 0.286 V (p-p), 75 $\Omega$
Component Video output	(Y) 1.0 V (p-p), 75 $\Omega$ , negative sync., pin jack X 1 (Cb)/(Cr) 0.7 V (p-p), 75 $\Omega$
Digital Audio output (optical)	Optical connector X 1
Digital Audio output (coaxial)	0.5 V (p-p), 75 $\Omega$ , pin jack X 1
Audio output (analog audio)	2.0 V (rms), 470 $\Omega$ , pin jack (L, R) X 1

- Design and specifications are subject to change without notice.

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