SANYO

INSTRUCTION MANUAL

DWM-450

DVD Video Player

DVD VIDEO™

DOLBY DIGITAL

COMPACT disc DIGITAL AUDIO

MP3 MPEG AUDIO

Kodak PICTURE CD COMPATIBLE
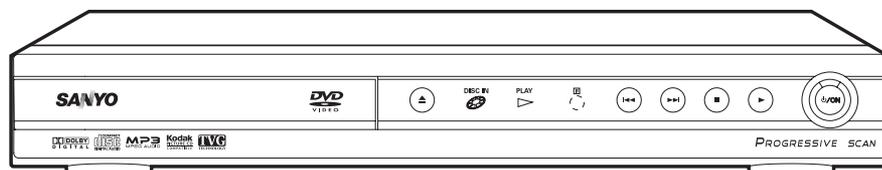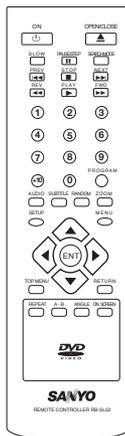
TVG TECHNOLOGY

SANYO'S HELP-LINE
Call the toll-free number below if you have any difficulties operating this product.
1-800-813-3435 (Weekdays: 7:30 AM - 4:00 PM Central Time)

Please Read This Manual.

Because DVD is a new technology, we recommend that you read this manual carefully before connecting your DVD video player and operating it for the first time.
Keep the manual in a safe place for future reference.

English

CONTENTS

IMPORTANT INFORMATION:
To connect this unit to a TV, TV must have a set of Audio/Video composite input jacks (RCA-type). You cannot use an antenna terminal to connect this unit.

To operate the built-in TVGuardian®
This unit has the built-in TVGuardian® Foul Language Filter (TVG®).
When a disc supporting closed caption is played, it will mute the audio during the entire phrase containing offensive language. For more details, see page E25.

To enjoy Dolby Digital sound
For connection, see "Connecting to an Amplifier with Dolby Digital Decoder or MPEG2 Decoder (Example 4)" on page E12.
See "Setting Digital Out" in the INITIAL SETTINGS on page E33.

Note:
This handling description is printed prior to product development.
When a part of the product specification must be changed to improve operability or other functions, priority is given to the product specification itself. In such instances, the instruction manual may not entirely match all the functions of the actual product.
Therefore, the actual product and packaging, as well as the name and illustration, may differ from the manual.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

WARNING: UNAUTHORIZED RECORDING OF COPYRIGHTED MATERIAL MAY VIOLATE APPLICABLE COPYRIGHT LAWS. THE MANUFACTURER ASSUMES NO RESPONSIBILITY FOR UNAUTHORIZED DUPLICATION, USE OR OTHER ACTS WHICH INFRINGE UPON THE RIGHTS OF COPYRIGHT OWNERS.

IMPORTANT SAFETY INSTRUCTIONS

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

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

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

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

5. Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

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

7. Water and Moisture – Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

8. Accessories – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

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

PORTABLE CART WARNING
(Symbol provided by RETAC)

S3125A

(Figure 1)

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

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

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

13. 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, playing particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14. Lightning – For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
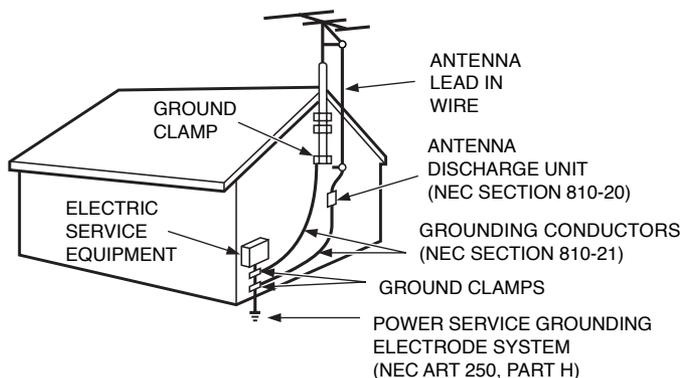
15. Outdoor Antenna Grounding – If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure 2.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70

ANTENNA LEAD IN WIRE

GROUND CLAMP

ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)

ELECTRIC SERVICE EQUIPMENT

GROUNDING CONDUCTORS (NEC SECTION 810-21)

GROUND CLAMPS

POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

NEC – NATIONAL ELECTRICAL CODE

S2898A

(Figure 2)

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

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

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

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

20. Damage Requiring Service – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

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

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

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

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

This appliance shall not be exposed to drippling or splashing water and that no object filled with liquid such as vases shall be placed on the apparatus.

SAFETY CERTIFICATION

This unit is made and tested to meet exacting safety standards. It meets UL and FCC requirements and complies with safety performance standards of the U.S. Department of Health and Human Services.

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

THIS UNIT SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

FCC INFORMATION
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION:
Changes or modifications not expressly approved by Sanyo may void the user's authority to operate this 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.

THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.

CET APPAREIL NUMÉRIQUE DE CLASSE B EST CONFORME AUX EXIGENCES DU RÉGLEMENT CANADIEN ICES-003.

ACCESSORIES
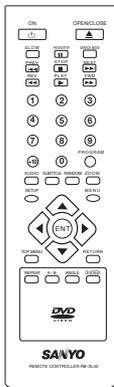
RB-SL50 wireless remote control
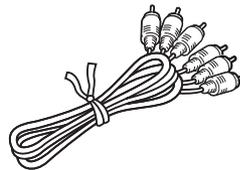
Audio/Video cable

CONTROLS

Front Panel

1. Disc tray
2. Open/Close button (⏏)
3. Disc-in indicator (DISC IN)
4. Play indicator (PLAY)
5. Remote sensor (IR)
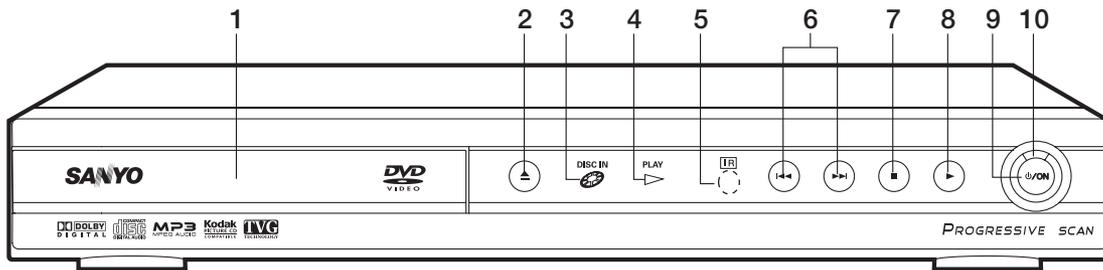
6. Skip/Next/Previous buttons (◄◄, ►►)
7. Stop button (■)
8. Play button (►)
9. Power button (⏻/ON)
10. Power indicator

Back Panel
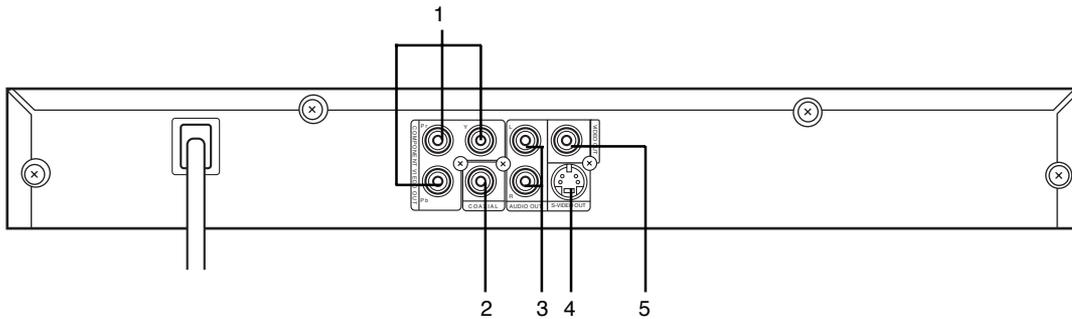
1. Component video output jacks
   (COMPONENT VIDEO OUT)
2. Coaxial digital output jack (COAXIAL)
3. Audio output jacks (AUDIO OUT)

4. S-Video output jack (S-VIDEO OUT)
5. Video output jack (VIDEO OUT)

REMOTE CONTROL
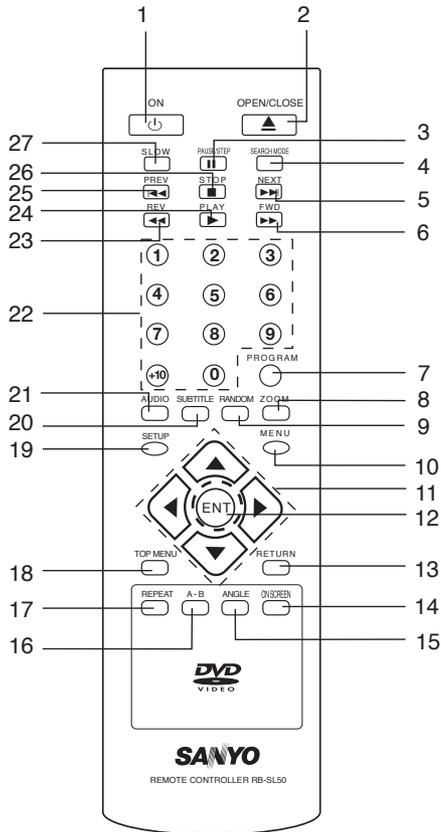
Controls
1. Power button (⏻/ON)
2. Open/Close button (▲ OPEN/CLOSE)
3. Pause/Step button (❚❚ PAUSE/STEP)
4. Search mode button (SEARCH MODE)
5. Skip/Next button (NEXT ►►❘)
6. Forward button (FWD ►►)
7. Program button (PROGRAM)
8. Zoom button (ZOOM)
9. Random play button (RANDOM)
10. Menu button (MENU)
11. Directional arrow buttons (▲, ►, ▼, ◄)
12. Enter button (ENT)
13. Return button (RETURN)
14. On screen display button (ON SCREEN)
15. Angle button (ANGLE)
16. A-B repeat button (A-B)
17. Repeat button (REPEAT)
18. Top menu button (TOP MENU)
19. Setup button (SETUP)
20. Subtitle change button (SUBTITLE)
21. Audio button (AUDIO)
22. Number buttons (1-9, 0, +10)
23. Reverse button (REV ◄◄)
24. Play button (► PLAY)
25. Skip/Previous button (PREV ❘◄◄)
26. Stop button (■ STOP)
27. Slow button (SLOW)

Inserting batteries

1.

2.

Two "AAA" batteries (not supplied)
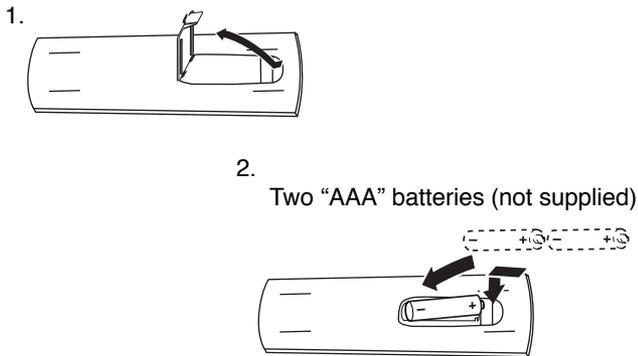
Note:
Remove the batteries if the remote control is not to be used for a month or more. Batteries left in the unit may leak and cause damage.

IMPORTANT NOTE:

SPENT OR DISCHARGED BATTERIES MUST BE RE-CYCLED OR DISPOSED OF PROPERLY IN COMPLI-ANCE WITH ALL APPLICABLE LAWS.
FOR DETAILS INFORMATION, CONTACT YOUR LO-CAL COUNTY SOLID WASTE AUTHORITY.

Remote control range

Remote sensor

Within approx. 20 feet (6 meters)   30° 30°
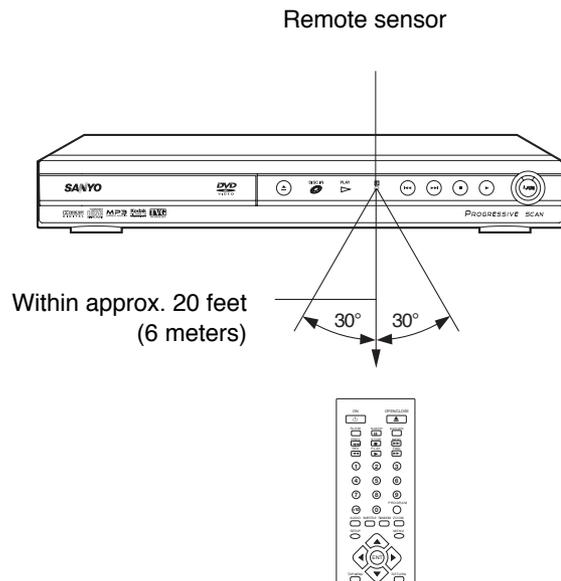
Note:
This is not multibrand remote control.

BEFORE CONNECTION

IMPORTANT INFORMATION:
- To connect this unit to a TV, TV must have a set of Audio/Video composite input jacks (RCA-type).
  You cannot use an antenna terminal to connect this unit.
- If your TV has only an antenna terminal, please purchase the TV with Audio/Video input jacks or the RF modulator.
- Do not connect the unit to a VCR directly. The playback picture will be distorted because DVD video discs are copy-protected.
- Please refer to the instruction manuals for the components that you are connecting (TV, AV amplifier, etc.).

Choosing a Connection

Does your TV have "Audio/Video input jacks"?

Yes

No ⇒ Do you use an RF Modulator (not supplied)? ⇒ Yes ⇒ See "Connecting to a Conventional TV (Example 1)" and "Using RF Modulator" on pages E8 & E9.

No

Please purchase the TV with Audio/Video input jacks or the RF Modulator.

⇒ **TV Connection** ⇒ Do you connect it to a Conventional TV? ⇒ Yes ⇒ See "Connecting to a Conventional TV (Example 1)" on page E8.

No

Do you connect it to a TV with Progressive-scan Capability? ⇒ Yes ⇒ See "Connecting to a TV with Progressive-scan Capability (Example 2)" on page E10.

⇒ **TV and Amplifier Connection**

⇒ **VIDEO Connection** ⇒ See "Connecting to a Conventional TV (Example 1)"on page E8 or "Connecting to a TV with Progressive-scan Capability (Example 2)" on page E10.
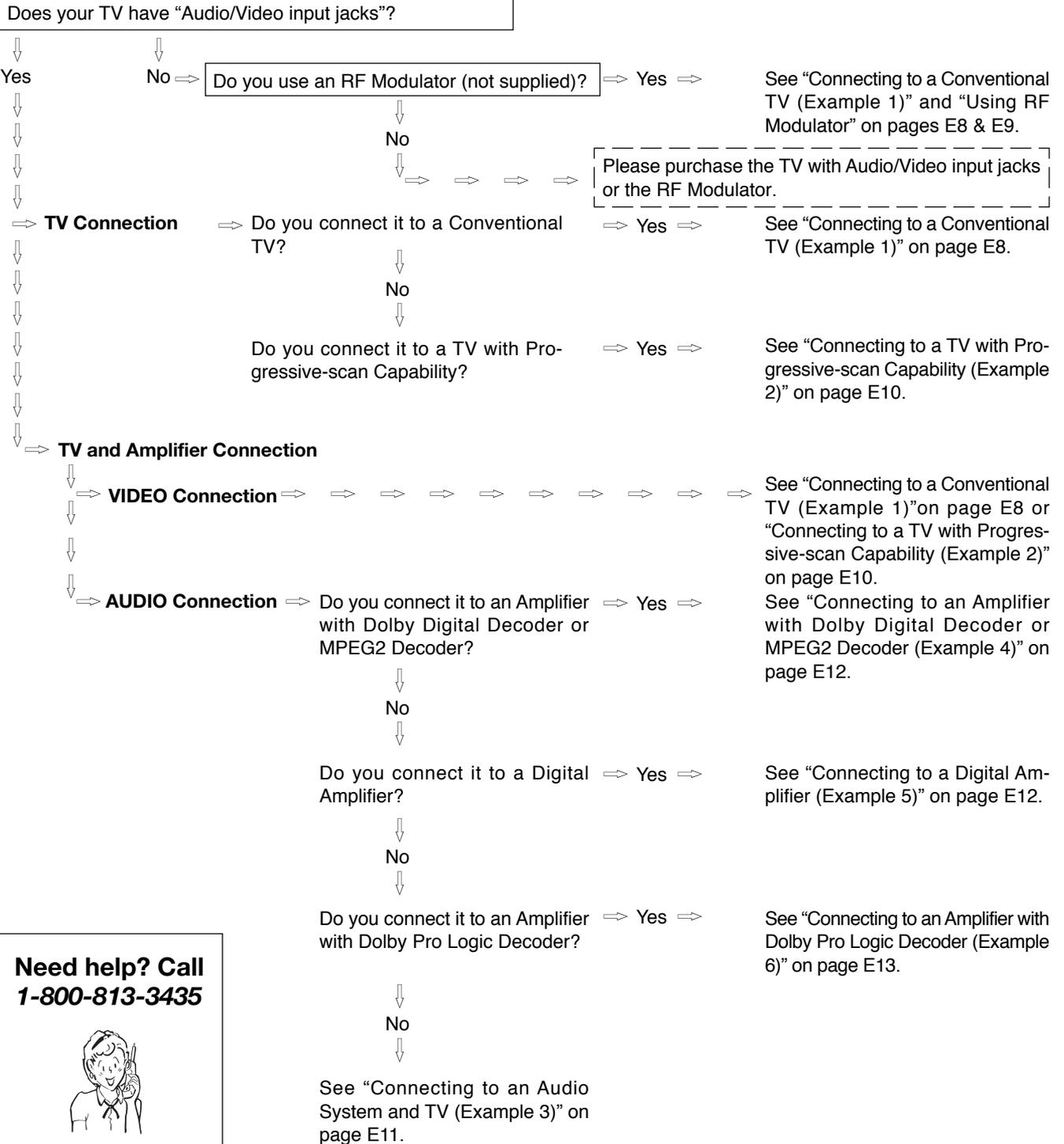
⇒ **AUDIO Connection** ⇒ Do you connect it to an Amplifier with Dolby Digital Decoder or MPEG2 Decoder? ⇒ Yes ⇒ See "Connecting to an Amplifier with Dolby Digital Decoder or MPEG2 Decoder (Example 4)" on page E12.

No

Do you connect it to a Digital Amplifier? ⇒ Yes ⇒ See "Connecting to a Digital Amplifier (Example 5)" on page E12.

No

Do you connect it to an Amplifier with Dolby Pro Logic Decoder? ⇒ Yes ⇒ See "Connecting to an Amplifier with Dolby Pro Logic Decoder (Example 6)" on page E13.

No

See "Connecting to an Audio System and TV (Example 3)" on page E11.

Need help? Call
1-800-813-3435

BASIC CONNECTIONS

Connecting to a Conventional TV (Example 1)

Connect the DVD video player to your TV.
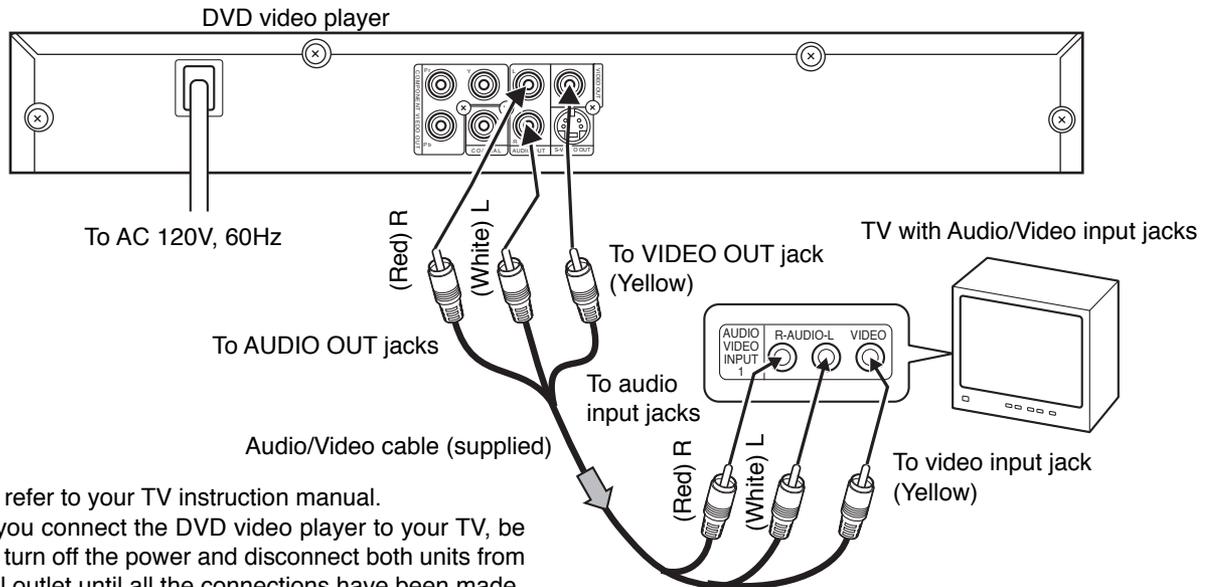
DVD video player

To AC 120V, 60Hz

(Red) R

(White) L

To AUDIO OUT jacks

To VIDEO OUT jack
(Yellow)

Audio/Video cable (supplied)

TV with Audio/Video input jacks

AUDIO
VIDEO
INPUT
1

R-AUDIO-L   VIDEO

To audio
input jacks

(Red) R

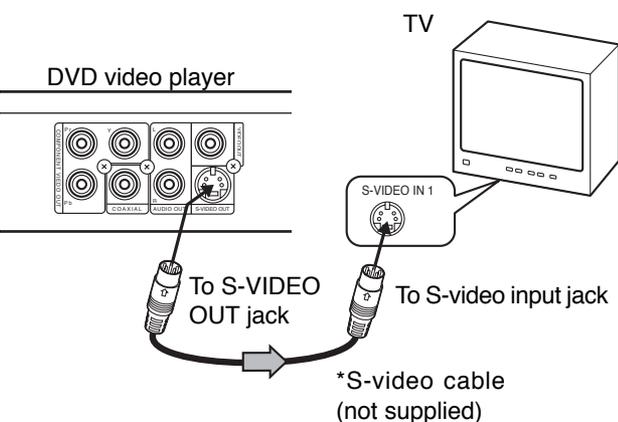(White) L

To video input jack
(Yellow)

Notes:
- Please refer to your TV instruction manual.
- When you connect the DVD video player to your TV, be sure to turn off the power and disconnect both units from the wall outlet until all the connections have been made.
- If your TV has one audio input jack, connect the AUDIO OUT jacks of the DVD video player to a Y-cable adapter (not supplied), then connect it to the TV Audio input. Please consult your local audio/video dealer.
- Do not connect the DVD video player to a VCR directly. The playback picture will be distorted because DVD video discs are copy protected.

Using the S-VIDEO OUT jack
Note:
Please follow the steps before turn on the power.
1. If your TV has the S-video input jack, connect the DVD video player with the S-video cable (not supplied). (The VIDEO OUT jack connection is not necessary.)
   You can enjoy clearer picture playback.
2. You also need to connect the left and right audio cables (not supplied) to the AUDIO OUT jacks of the DVD video player and the Audio input jacks of the TV.

TV

DVD video player

S-VIDEO IN 1

To S-VIDEO
OUT jack

To S-video input jack

*S-video cable
(not supplied)

*Please consult your local audio/video dealer.

Using the COMPONENT VIDEO OUT jacks
Note:
Please follow the steps before turn on the power.
1. If your TV has the component video input jacks, connect the DVD video player to these jacks. (The VIDEO OUT or S-VIDEO OUT jack connection is not necessary.)
   You can enjoy high quality picture playback.
2. You also need to connect the left and right audio cables (not supplied) to the AUDIO OUT jacks of the DVD video player and the Audio input jacks of the TV.
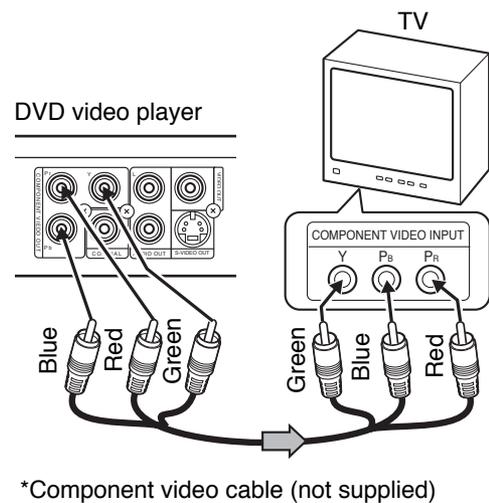
TV

DVD video player

COMPONENT VIDEO INPUT

Y   PB   PR

Blue

Red

Green

Green

Blue

Red

*Component video cable (not supplied)

Using RF Modulator

If your TV does not have a Video input jack and has an antenna terminal only, please purchase the *RF Modulator (not supplied).

(*Please consult your audio/video dealer.)

Example: DVD video player, TV and RF Modulator connections
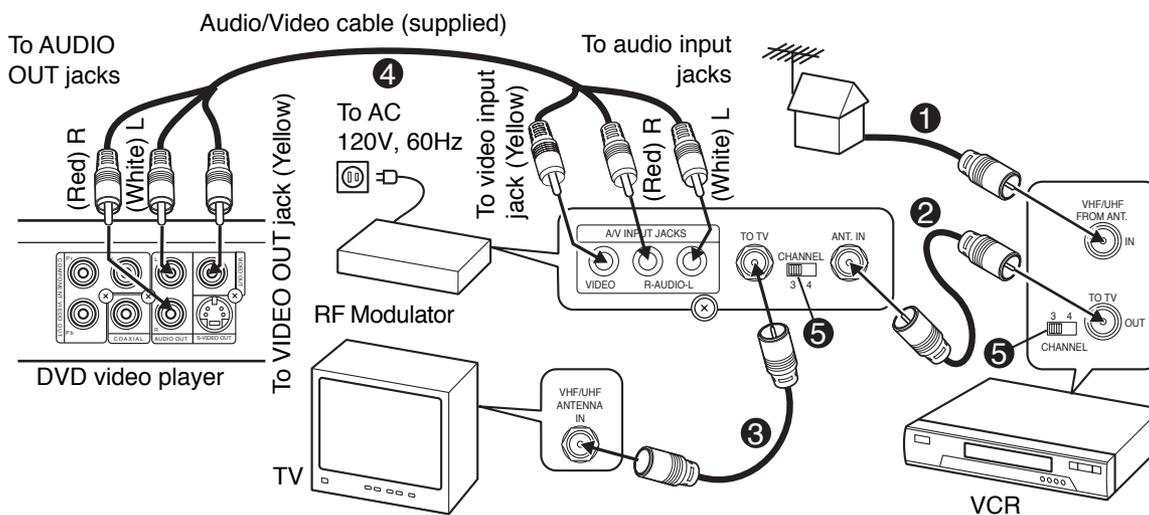
Audio/Video cable (supplied)
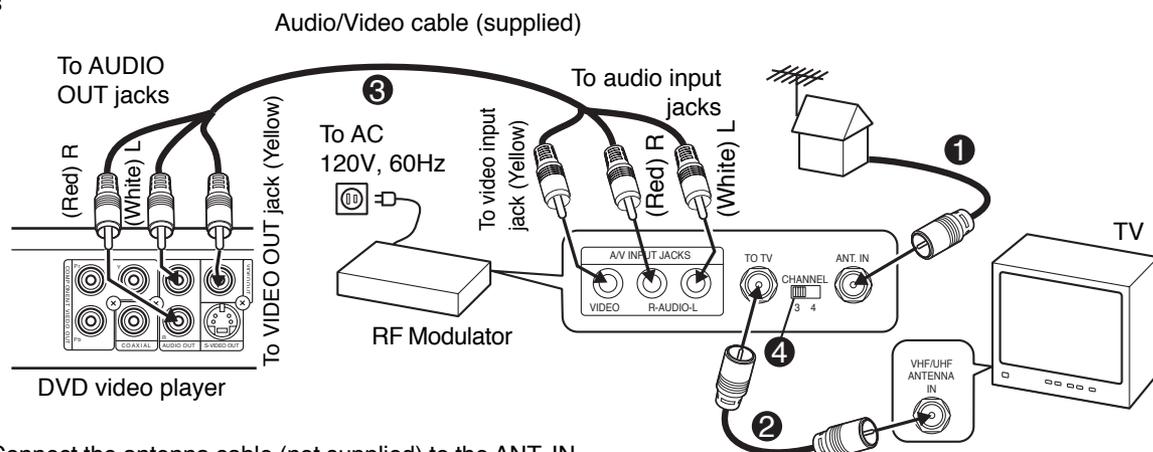
1. Connect the antenna cable (not supplied) to the ANT. IN terminal of the RF Modulator.
2. Connect the 75-ohm coaxial cable (not supplied) between the TO TV terminal of the RF Modulator and the VHF/UHF ANTENNA IN terminal of the TV.
3. Connect the Audio/Video cable (supplied) between the AUDIO OUT and VIDEO OUT jacks of the DVD video player and the AUDIO INPUT and VIDEO INPUT jacks of the RF Modulator.

4. Turn on the TV, and set the channel number (CHANNEL3 or CHANNEL4) on both TV and RF Modulator, whichever is not used for regular broadcast in your area.

Note:
For more details, please refer to the instruction manual of the RF Modulator.

Example: DVD video player, VCR, TV and RF Modulator connections

Audio/Video cable (supplied)

1. Connect the antenna cable (not supplied) to the VHF/UHF FROM ANT IN terminal of the VCR.
2. Connect the 75-ohm coaxial cable (not supplied) between the TO TV OUT terminal of the VCR and the ANT. IN terminal of the RF Modulator.
3. Connect the 75-ohm coaxial cable (not supplied) between the TO TV terminal of the RF Modulator and the VHF/UHF ANTENNA IN terminal of the TV.

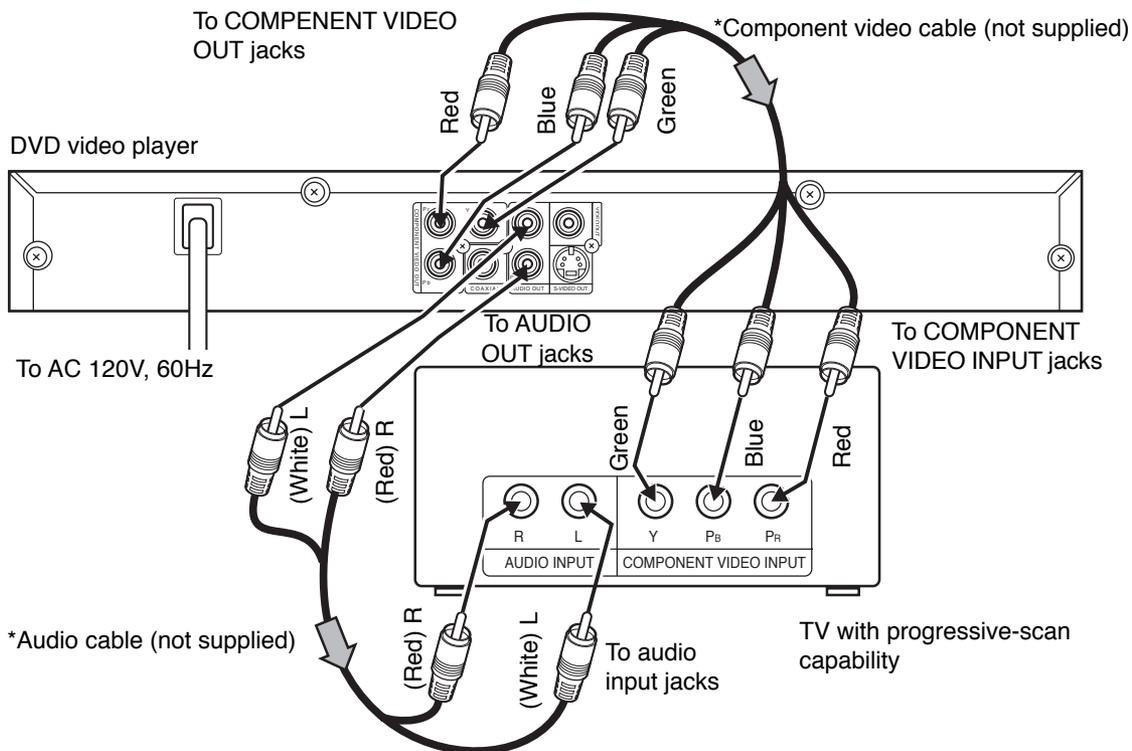4. Connect the Audio/Video cable (supplied) between the AUDIO OUT and VIDEO OUT jacks of the DVD video player and the AUDIO INPUT and VIDEO INPUT jacks of the RF Modulator.
5. Turn on the TV, and set the channel number (CHANNEL3 or CHANNEL4) on all TV, VCR and RF Modulator, whichever is not used for regular broadcasts in your area.

Note:
For more details, please refer to the instruction manual of the RF Modulator.

Connecting to a TV with Progressive-scan Capability (Example 2)

Your TV must be capable of handing progressive scanning and have component video input capability.

To COMPENENT VIDEO OUT jacks

*Component video cable (not supplied)

Red   Blue   Green

DVD video player

To AC 120V, 60Hz

To AUDIO OUT jacks

To COMPONENT VIDEO INPUT jacks

(White) L   (Red) R

Green   Blue   Red

R   L   Y   PB   PR

AUDIO INPUT   COMPONENT VIDEO INPUT

*Audio cable (not supplied)

(Red) R   (White) L   To audio input jacks

TV with progressive-scan capability

*Please consult your local audio/video dealer.

1. Connect the DVD video player to the component video input jacks of the TV. (The VIDEO OUT or S-VIDEO OUT jack connection is not necessary.)
2. You also need to connect the left and right audio cables (not supplied) to the AUDIO OUT jack of the DVD video player and the Audio input jacks of the TV.
3. **Set the DVD video player to the PROGRESSIVE position. See page E15.**

Progressive Scanning

While interlaced scanning produces one frame of video in two fields, progressive scanning creates one frame in one field.

Conventional interlaced scanning constitutes one second with 30 frames (60 fields), but progressive scanning constitutes it with 60 frames from scratch. Progressive scanning can re-produce sharper picture with high resolution for still image or other picture containing long texts or horizontal lines.

This model has compliance with 525p (progressive) system.

Notes:
- Please refer to your TV instruction manual.
- When you connect the DVD video player to your TV, be sure to turn off the power and disconnect both units from the wall outlet until all the connections have been made.
- Do not connect the DVD video player to a VCR directly. The playback picture will be distorted because DVD video discs are copy protected.

Interlaced scanning
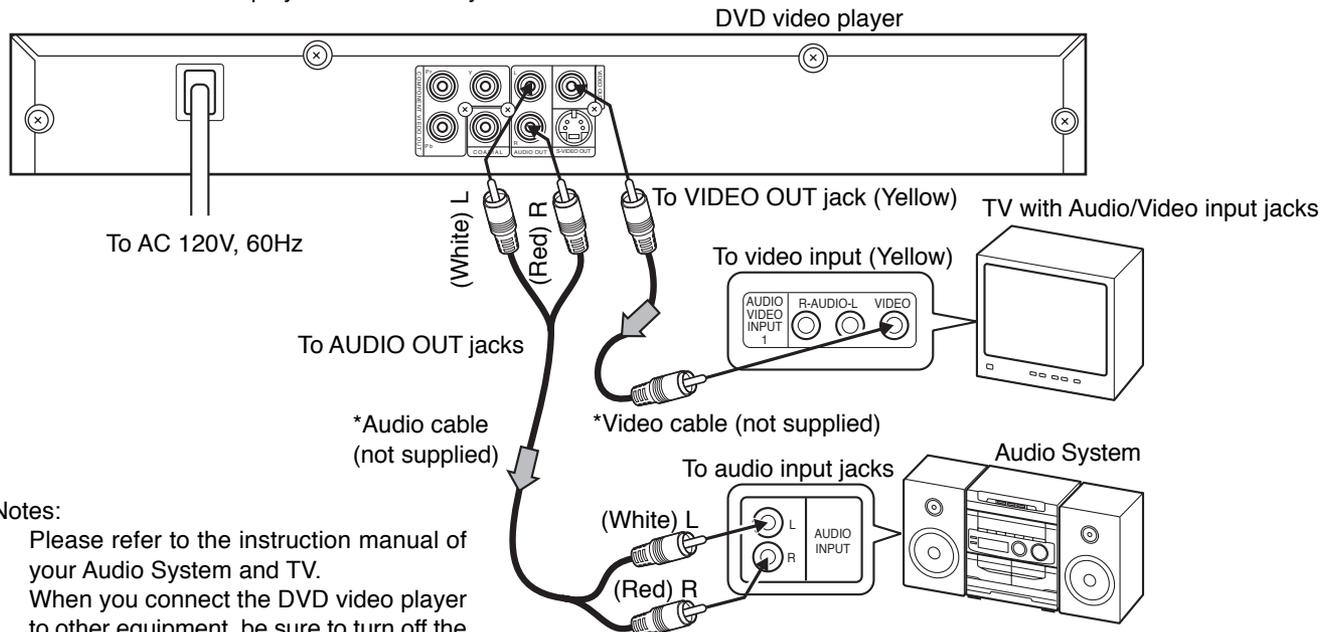

Progressive scanning
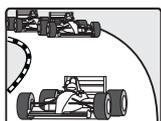
Need help? Call
1-800-813-3435

ADDITIONAL CONNECTION EXAMPLES

Connecting to an Audio System and TV (Example 3)

Connect the DVD video player to an Audio System and a TV.

DVD video player

To VIDEO OUT jack (Yellow)

To AC 120V, 60Hz

(White) L

(Red) R

To AUDIO OUT jacks

TV with Audio/Video input jacks

To video input (Yellow)

AUDIO VIDEO INPUT 1   R-AUDIO-L   VIDEO

*Audio cable (not supplied)

*Video cable (not supplied)

To audio input jacks

Audio System

(White) L

(Red) R

AUDIO INPUT

L

R

Notes:
- Please refer to the instruction manual of your Audio System and TV.
- When you connect the DVD video player to other equipment, be sure to turn off the power and disconnect all of the equipment from the wall outlet until all the connections have been made.
- Do not connect the DVD video player to a VCR directly. The playback picture will be distorted because DVD video discs are copy protected.
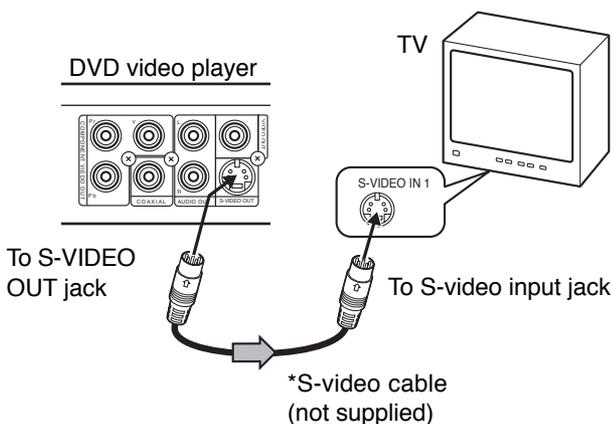
*Please consult your local audio/video dealer.

Using the COMPONENT VIDEO OUT jacks
Note:
Please follow the steps before turn on the power.
1. If your TV has the component video input jacks, connect the DVD video player to these jacks. (The VIDEO OUT or S-VIDEO OUT jack connection is not necessary.)
   You can enjoy high quality picture playback.
2. You also need to connect the left and right audio cables (not supplied) to the AUDIO OUT jacks of the DVD video player and the Audio input jacks of the Audio System.

Using the S-VIDEO OUT jack
Note:
Please follow the steps before turn on the power.
1. If your TV has the S-video input jack, connect the DVD video player with the S-video cable (not supplied). (The VIDEO OUT jack connection is not necessary.)
   You can enjoy clearer picture playback.
2. You also need to connect the left and right audio cables (not supplied) to the AUDIO OUT jacks of the DVD video player and the Audio input jacks of the Audio System.
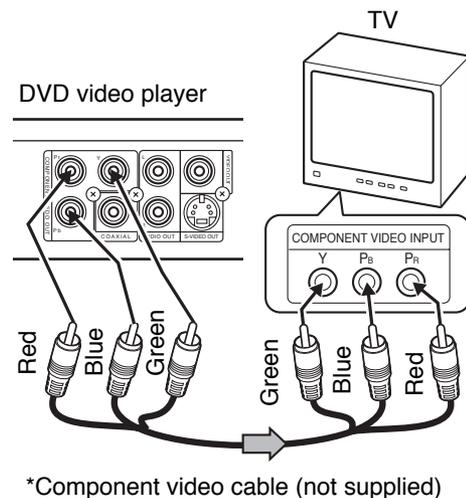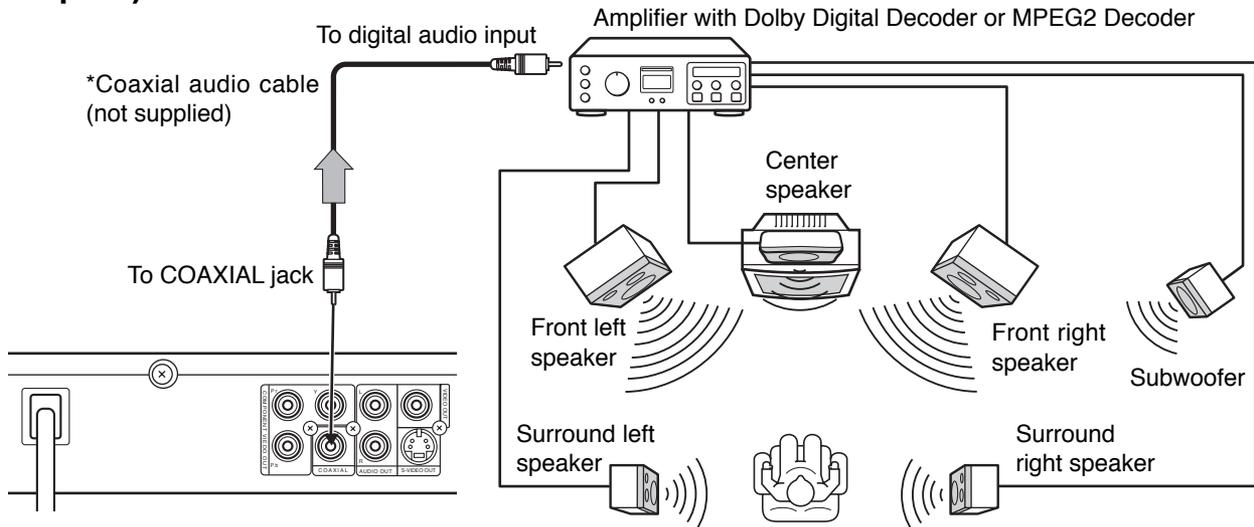
DVD video player

TV

S-VIDEO IN 1

To S-VIDEO OUT jack

To S-video input jack

*S-video cable (not supplied)

TV

DVD video player

COMPONENT VIDEO INPUT

Y   P_B   P_R

Red   Blue   Green

Green   Blue   Red

*Component video cable (not supplied)

*Please consult your local audio/video dealer.

Notes:
- **For VIDEO connection, please refer to "BASIC CONNECTIONS".**
- Please refer to the instruction manual of your amplifier.
- When you connect the DVD video player to your amplifier, be sure to turn off the power and disconnect both units from the wall outlet until all the connections have been made.

Connecting to an Amplifier with Dolby Digital Decoder or MPEG2 Decoder (Example 4)

Amplifier with Dolby Digital Decoder or MPEG2 Decoder

To digital audio input

*Coaxial audio cable (not supplied)

To COAXIAL jack

Center speaker

Front left speaker

Front right speaker

Subwoofer

Surround left speaker

Surround right speaker

To enjoy Dolby Digital sound
Select "DOLBY DIGITAL BITSTREAM" in "Setting Digital Out" on the INITIAL SETTINGS. (See page E33.)

To enjoy MPEG2 sound
Select "MPEG BITSTREAM" in "Setting Digital Out" on the INITIAL SETTINGS. (See page E33.)
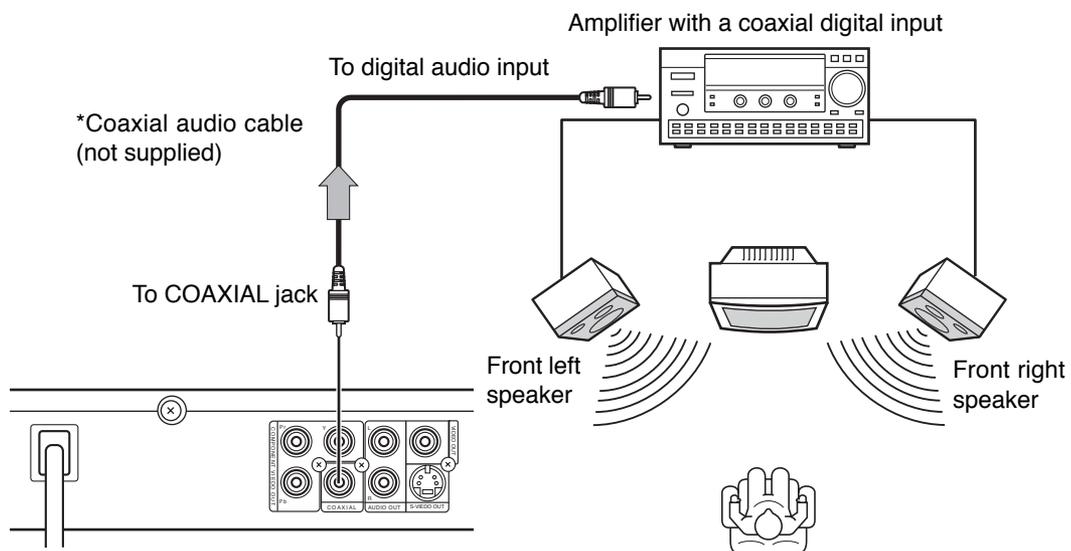
*Please consult your local audio/video dealer.

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

Connecting to a Digital Amplifier (Example 5)
You can enjoy 2 Channel Digital Stereo Sound.

Amplifier with a coaxial digital input

To digital audio input

*Coaxial audio cable (not supplied)

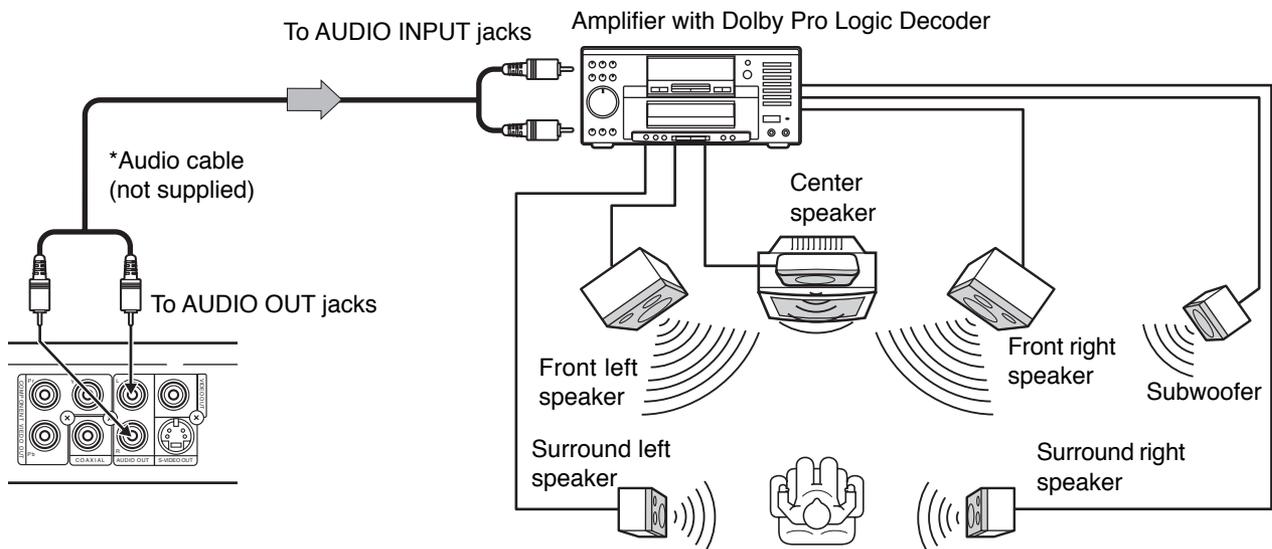To COAXIAL jack

Front left speaker

Front right speaker

To enjoy 2 Channel Digital Stereo sound
Select "DOLBY DIGITAL LPCM" and "MPEG LPCM" in "Setting Digital Out" on the INITIAL SETTINGS. (See page E33.)

*Please consult your local audio/video dealer.

Connecting to an Amplifier with Dolby Pro Logic Decoder (Example 6)

To AUDIO INPUT jacks   Amplifier with Dolby Pro Logic Decoder

*Audio cable
(not supplied)

To AUDIO OUT jacks

Center speaker

Front left speaker

Front right speaker

Subwoofer

Surround left speaker

Surround right speaker

Note:
Please refer to your amplifier instruction manual.

*Please consult your local audio/video dealer.

Power Supply

Connect the power cord to a 120VAC 60Hz outlet. This unit is equipped with a polarized plug. If you have difficulty inserting the plug, turn it over and reinsert it. If the unit will not be used for a long time, disconnect the AC plug from the AC outlet.

Notes:
- Before connecting the power cord to an AC outlet, make sure that all the connections have been made.
- The unit cannot be entirely disconnected from the AC power until the power cord is unplugged from the AC outlet.

> **CAUTION:**
> When connecting the DVD video player, follow the installation instruction in "IMPORTANT SAFETY INSTRUCTIONS" on page E2.

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

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

FOR SAFE AND EFFICIENT OPERATION

- Do not damage the power cord.
- When not in use, disconnect the power cord from the outlet. Grasp the plug, not the cord, when disconnecting the unit.
- If water should enter the unit, electrical shock or a malfunction may result. Use in an area where there is low humidity and little dust.
- Do not disassemble or alter the unit in any way.
- Do not use the unit in areas where extremes in temperature occur (below 40˚F (5˚C) or exceeding 95˚F (35˚C)), or where it may be exposed to direct sunlight.
- Because of the DVD video player extremely low noise and wide dynamic range, there is a tendency to set the volume on the amplifier higher than necessary. Doing so may produce an excessively high output from the amplifier which can cause damage to your speakers. Please be careful in this regard.
- Sudden changes in the surrounding temperature can cause dew to form on the optical pickup lens inside the unit. Under this condition the unit may be unable to operate properly. If this should occur, remove the disc and allow the unit to adjust to the surrounding temperature.

- **When carrying the unit, be sure to remove a disc which may be inside and turn the power off. Then unplug the power cord from the AC outlet after 10 seconds. Carrying the unit with a disc inside may damage the disc and/or the unit.**
- The unit is automatically set to the Screen Saver mode after approximately 5 minutes have elapsed under the stop or pause mode.
- The unit is automatically set to the standby mode after approximately 30 minutes have elapsed under the complete stop mode.
- Do not install this equipment in a confined space, such as a book case or built in cabinet.

> Press [▲] (or [▲ OPEN/CLOSE] on the remote control) when closing the disc tray. Do not push the disc tray.

PLAYABLE DISCS

The following types of discs can be played on the unit.

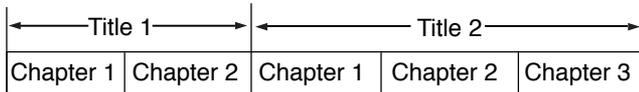| Disc type and logo mark	
DVD-Video	**DVD** VIDEO™
Audio CD	COMPACT disc DIGITAL AUDIO

Region Number

Region number (Regional restriction code) is built-in to the unit and DVD video discs.
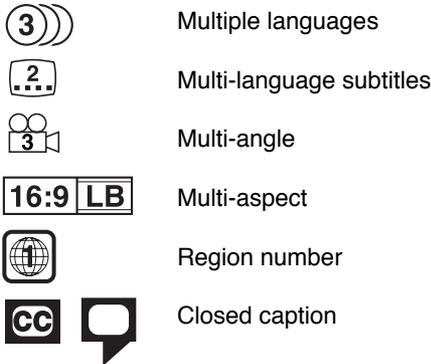Region number "1" or "ALL" of DVD video discs can be used on this unit.

DVD Video Disc

DVD video discs are divided into titles, and the titles are sub-divided into chapters.

←———Title 1———→		←——————— Title 2 ———————→		
Chapter 1	Chapter 2	Chapter 1	Chapter 2	Chapter 3

There are the marks on some DVD video disc packages.
Example:

3)))	Multiple languages
.2..	Multi-language subtitles
3 ◁	Multi-angle
16:9 LB	Multi-aspect
⊕	Region number
CC ◯	Closed caption

Audio CD Disc

Audio CD discs are divided into tracks.

Track 1	Track 2	Track 3	Track 4	Track 5

CAUTION:

- Only the above types of discs can be played on this unit. DVD-ROM, CD-ROM, VCD, CVD, etc. cannot be played.
- This unit can play back the DVD-R that has recorded movie data as well. However, some DVD-Rs cannot be played back depending on the recording conditions.
- The DVD-R that has no movie data cannot be played back.
- This unit is to be used exclusively with the NTSC color system. PAL system discs cannot be used with the unit.
- **For MP3 CD, please see page E27.**
- **For Picture/JPEG CD, please see pages E29 and E30.**

Handling, Storing and Cleaning Discs

- Fingerprints and dust should be carefully wiped from the signal surface of the disc (glossy side) with a soft cloth.
  Wipe in a straight motion from the center to the outside of the disc.
- Never use chemicals such as record cleaning sprays, antistatic sprays or fluids, benzene or thinner to clean the discs . These chemicals will permanently damage the plastic surface of the disc.
- To remove a disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.
- Discs should be returned to their cases after use to protect them from dust and scratches.
- To prevent warping the disc, do not expose it to direct sunlight, high humidity or high temperatures for extended periods of time.
- Do not apply paper or write anything on either side of the disc. Sharp writing instruments, or the inks used in some felt-tip pens, may damage the surfaces of the disc.
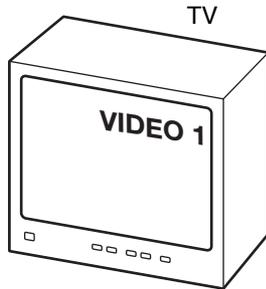
Need help? Call
1-800-813-3435

-E14-

BASIC OPERATION

Preparations

- Turn on the power (TV, Audio System, AV amplifier, etc.).
- **Select the video input source on your television.**
  (Please refer to your TV instruction manual.)

TV

- Select the playback picture size according to the aspect ratio of the TV. (For more details, see "Setting Display" on page E32.)
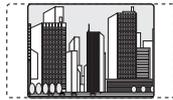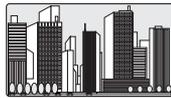
4:3 LB
(Letterbox):

4:3 PS
(Panscan):

16:9 :

- Select the audio input source (Audio System, AV amplifier, etc.).

- **When you use TV with Progressive-scan capability and connect it to the COMPONENT VIDEO OUT jacks of the DVD video player (see page E10), you must select the PROGRESSIVE mode. (For more details, please refer to your TV instruction manual.)**

> **Note:**
> **If you use a Conventional TV, skip this section.**

1. Turn on the power (TV and DVD video player).
2. In "NO DISC" mode, press and hold down [▶] on the DVD video player until "▭P" (PROGRESSIVE) appears briefly on the TV screen.

   If you want to change the setting again, press and hold down [▶] on the DVD video player until " ▤Ⅰ " (INTERLACE) appears briefly on the TV screen.

   Note:
   In " ▭P " mode, the closed caption may not appear on the TV screen.

> **Important Note:**
> - This instruction manual explains the basic instruction of this unit using the remote control.
> - Some DVD video discs have different functions that may not be explained in this instruction manual. You may need extra instruction. In this case, please follow the instructions displayed on the TV screen or jacket or case of the disc.
> - " ⊘ " may appear on the TV screen during operation. This icon means that the function is not available on the disc now.

Basic Playback

Notes:
- Do not touch the disc tray while it is moving.
- Never place anything except a disc on the disc tray. Foreign objects can damage the unit.
- Do not apply excessive force to the disc tray.
- Only one disc must be placed on the disc tray at a time.

When operation buttons are pressed, that operation is displayed on the TV screen. The display turns off after several seconds.
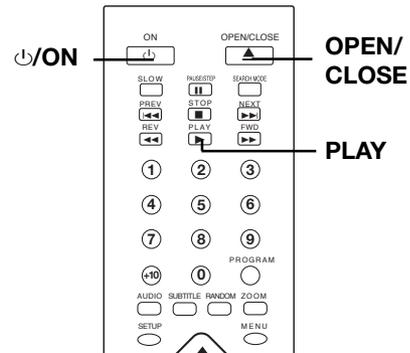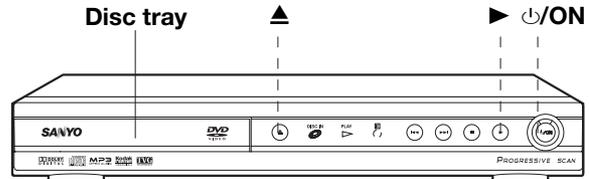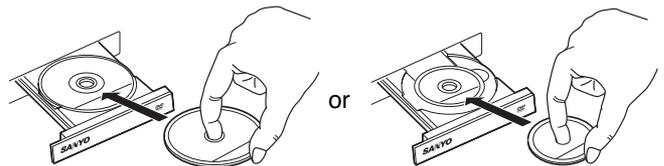

1. Press [⏻/ON].
   - "SANYO" logo appears on the TV screen.
   - The power indicator lights on the front panel.

2. Press [▲] (or [▲ OPEN/CLOSE] on the remote control).
   - "▲" appears on the TV screen and the disc tray opens.
   - The DISC IN indicator blinks on the front panel.

   Note:
   To open or close the disc tray, be sure to press [▲] (or [▲ OPEN/CLOSE] on the remote control). Do not push back the disc tray by your hand.

3. Place the disc with the label facing up on the disc tray.
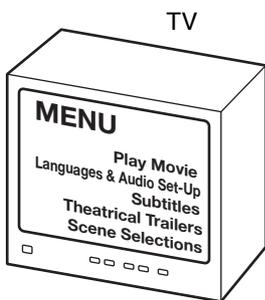

For 5-inch (12cm) disc   For 3-inch (8cm) disc

4. Press [▲] (or [▲ OPEN/CLOSE] on the remote control) again.
   • The disc tray closes.
   Note:
   Some discs may start playback automatically.

5. Press [► PLAY] (or [►] on the unit) to start playback.
   • The PLAY indicator lights on the front panel.
   • "►" appears briefly on the TV screen.

Notes:
• In some discs, even if 4:3 PS is selected, the black bands may remain on the TV screen.
• If the disc is loaded with the label side downward (and it is a single sided disc), or if a badly scratched disc is loaded, "NO DISC" or "NO PLAY" appears on the TV screen. If this occurs, load the disc correctly or replace the disc.

If a disc menu screen appears on the TV screen...

TV

MENU

Play Movie
Languages & Audio Set-Up
Subtitles
Theatrical Trailers
Scene Selections

1. Press [▲], [►], [▼] or [◄] (or the number buttons) to select the desired menu.
2. Press [ENT].
   Playback of the selected menu starts.
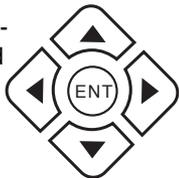
Note:
For more details, please refer to the jacket or case of the disc.

Note:
This handling description is printed prior to product development. When a part of the product specification must be changed to improve operability or other functions, priority is given to the product specification itself. In such instances, the instruction manual may not entirely match all the functions of the actual product.
Therefore, the actual product and packaging, as well as the name and illustration, may differ from the manual.

Need help? Call
1-800-813-3435

Stopping Playback

[DVD]
• Press [■ STOP] (or [■] on the unit) **once** during playback. "RESUME ■" appears briefly on the TV screen. The PLAY indicator blinks on the front panel.

When you press [► PLAY] (or [►] on the unit), playback starts automatically from the point where you stopped. "►" appears briefly on the TV screen.
Note:
Some discs may not resume playback.

• Press [■ STOP] (or [■] on the unit) **twice** during playback. "■" appears briefly on the TV screen and playback stops completely.
When you press [► PLAY] (or [►]), playback starts from the beginning of the disc.
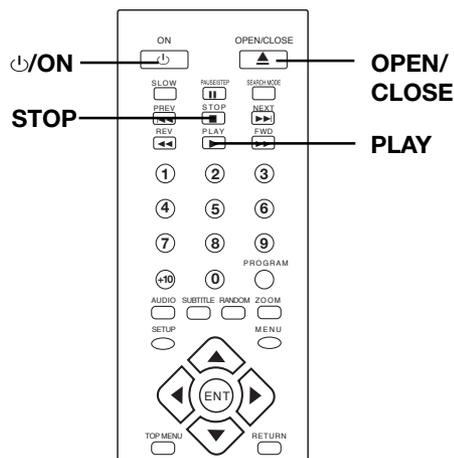
[CD]
• Press [■ STOP] (or [■] on the unit) **once** during playback. The unit stops completely.

To turn off the power, press [⏻/ON]. The power indicator turns off.

Note:
The unit is automatically set to the Screen Saver mode after approximately 5 minutes have elapsed under the stop or pause mode.

⏻/**ON** ——— **OPEN/CLOSE**

STOP ——— **PLAY**

Selecting a DVD Menu

Notes:
- The operation may differ depending on the disc used.
- Selecting a menu may not be possible on some discs.

1. Press [MENU].
   The main menu screen will appear.

   Note:
   Press [MENU] again to resume playback.

2. Press [▲], [▼], [◄] or [►] (or the number buttons) to se-
   lect the desired menu.

3. Press [ENT].
   The selected menu playback starts.

Selecting a Top Menu [DVD]

Notes:
- The operation may differ depending on the disc used.
- Selecting a top menu may not be possible on some discs.

1. Press [TOP MENU].
   The top menu will appear (if the disc contains a top menu).

2. Press [▲], [▼], [◄] or [►] (or the number buttons) to se-
   lect the desired menu.

3. Press [ENT].
   The selected menu playback starts.

Need help? Call
1-800-813-3435

ENT

TOP
MENU

MENU

▲, ▼, ►, ◄
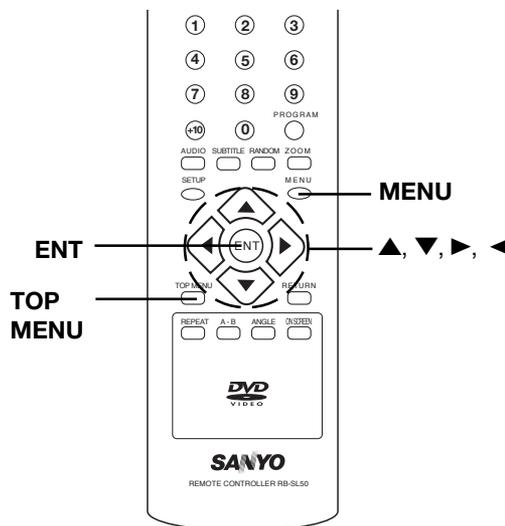
Chapter (Track) Skip

Skipping forward
Press [NEXT ►►|] (or ►►|) during playback to skip to the
next chapter (or track).
"►►|" appears briefly on the TV screen.
A chapter (or track) is skipped each time the button is pressed.

Skipping backward
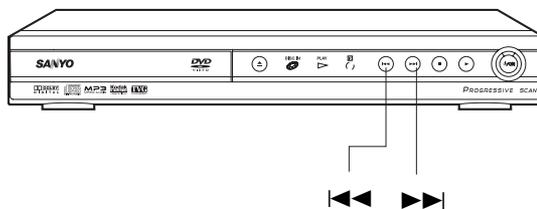Press [PREV |◄◄] (or |◄◄) during playback to skip back to
the beginning of the previous chapter (or track).
"|◄◄" appears briefly on the TV screen.

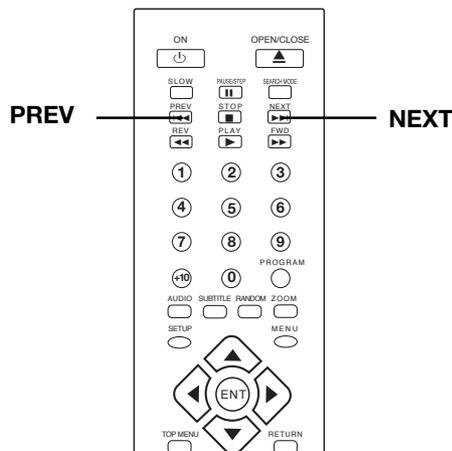Note:
You can skip only through the chapters, not over the title on
the DVD disc.

|◄◄   ►►|

PREV

NEXT

Important Note:
" ◯ " may appear on the TV screen during operation. This
icon means that the function is not available on the disc
now.

Title or Chapter Search [DVD]

1. Press [SEARCH MODE] **once** during playback or in the stop mode.
   The title/chapter search screen appears on the TV screen.
   Example:
       TITLE 01 / 28   CHAPTER 015 / 035

2. Press [▶] or [◀] to select "TITLE" or "CHAPTER".

3. Press the number button(s) to enter the title or chapter number.
   Example:
       To select "3", press [3].
       To select "10", press [+10], then [0].
       To select "24", press [+10], [+10], then [4].

   The title or chapter number will be changed.
   Example:
       TITLE 24 / 28   CHAPTER 015 / 035

4. Press [▶ PLAY].
   Playback starts from the selected title (or chapter).

Time Search [DVD]

1. Press [SEARCH MODE] **twice** during playback.
   The time search screen appears on the TV screen.
   Example:
       TITLE 01 / 02   TIME - - : - - : - -

2. Press the number button(s) to enter the time.
   Example:
       3 minutes 40 seconds:
               Press [0], [0], [0], [3], [4], then [0].
       20 minutes 5 seconds:
               Press [0], [0], [2], [0], [0], then [5].
       42 minutes 39 seconds:
               Press [0], [0], [4], [2], [3], then [9].
       1 hour 4 minutes 35 seconds:
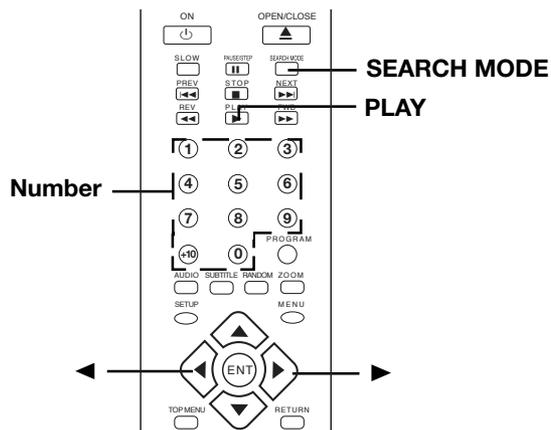   Press [0], [1], [0], [4], [3], then [5].

3. Press [▶ PLAY].
   Playback starts from the searched time.

Note:
The Search mode may not work on some discs.

Need help? Call
1-800-813-3435

Important Note:
" ⃠ " may appear on the TV screen during operation. This icon means that the function is not available on the disc now.

Time Search [CD]

1. Press [SEARCH MODE] **once** during playback.
   The time search screen (TIME - - : - -) appears on the TV screen.

2. Press the number button(s) to enter the time.
   Example:
       2 minutes 5 seconds:
               Press [0], [2], [0], then [5].
       42 minutes 39 seconds:
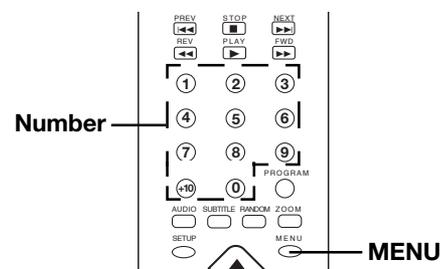   Press [4], [2], [3], then [9].

   ↓

   Playback starts from the searched time in the track.

Track Search [CD]

Press the number buttons during playback or in the stop mode.
   Example:
   To select Track No.3, press [3].
   To select Track No.10, press [+10], then [0].
   To select Track No.24, press [+10], [+10], then [4].

   ↓

   Playback starts from the selected track.

Fast Playback

Fast forward playback
Press [FWD ►►] repeatedly to select the speed of the fast forward playback.

►► 1 ⟶ ►► 2 ⟶ ►► 3 ⟶ ►► 4 (4 steps)

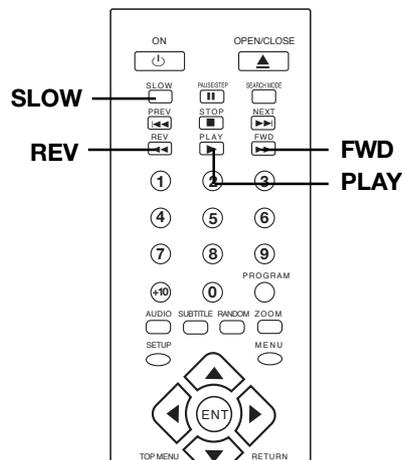Press [► PLAY] to return to normal playback.

Fast reverse playback
Press [REV ◄◄] repeatedly to select the speed of fast reverse playback.

◄◄ 1 ⟶ ◄◄ 2 ⟶ ◄◄ 3 ⟶ ◄◄ 4 (4 steps)

Press [► PLAY] to return to normal playback.

Note:
The sound is muted during the fast playback in DVD.

Slow Motion Playback [DVD]

Press [SLOW] repeatedly to select the speed of the slow forward (or reverse) playback.

►▶ 1 ⟶ ►▶ 2 ⟶ ►▶ 3 ⟶ ◀◀ 1 ⟶ ◀◀ 2 ⟶ ◀◀ 3
(Forward, 3 steps)　　　　　(Reverse, 3 steps)

Press [► PLAY] to return to normal playback.

Note:
The sound is muted during the slow motion playback.

Still Picture (Pause)

Press [❚❚ PAUSE/STEP] during playback.
- The PLAY indicator blinks on the front panel.
- "❚❚" appears briefly on the TV screen.

[DVD]
Still picture mode
[CD]
Pause mode

Press [► PLAY] to return to normal playback.

Note:
The sound is muted during still picture.

Need help? Call
1-800-813-3435

Important Note:
" ⃠ " may appear on the TV screen during operation. This icon means that the function is not available on the disc now.
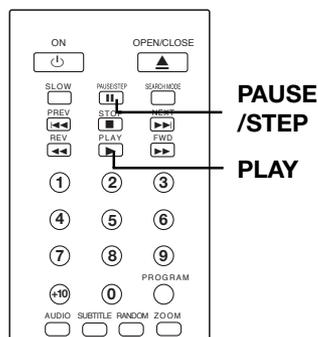
Frame by Frame Advance Playback [DVD]

Press [❚❚ PAUSE/STEP] during still picture.
- "❚❚ ►" appears briefly on the TV screen.

Each time the button is pressed, the picture advances one frame.
Press [► PLAY] to return to normal playback.

Notes:
- The sound is muted.
- Frame playback is just available in forward playback.

Picture Zoom [DVD]

Press [ZOOM] during playback.
The central part of the picture is magnified, and "Q 1" appears on the TV screen.

- Each time you press [ZOOM], the zoom mode will be changed as follows:

$$Q \; 1 \longrightarrow Q \; 2 \longrightarrow Q \; 3 \longrightarrow Q \; OFF$$

- Press [▲], [►], [▼] or [◄] to change the zoom point.

To return to the original screen, select "Q OFF".

Note:
Picture Zoom may not work on some discs.

Viewing from a Desired Camera Angle (Multi-Angle) [DVD]
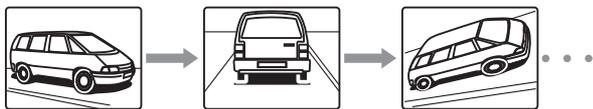
Some DVD video discs may contain scenes which have been shot simultaneously from a number of different camera angles. The jacket or case of discs that are recorded with angles will be marked.
Example:

Note:
The recorded angles differ depending on the disc used.

1. Play the disc that is recorded with angles.

2. Press [ANGLE] repeatedly until the desired angle appears.
   Example:

3/5

ZOOM

▲, ►, ▼, ◄

ANGLE

Important Note:
" $\bigcirc$ " may appear on the TV screen during operation. This icon means that the function is not available on the disc now.

Need help? Call
1-800-813-3435

Repeat Playback

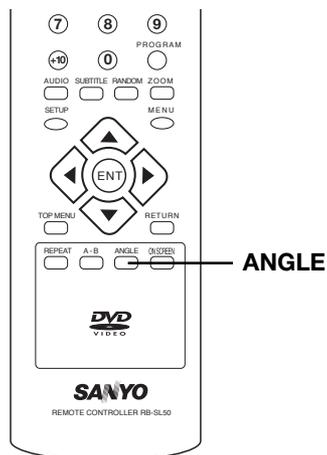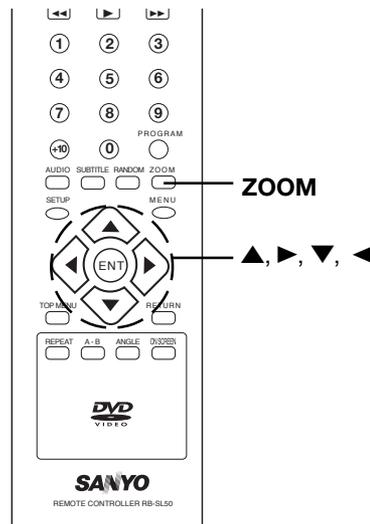Press [REPEAT] during playback (or programmed playback) of the title (or track) you want to repeat.
Each time the button is pressed, the repeat mode will be changed as follows.

[DVD]
↺ CHAPTER:
Repeat of the chapter being played
↺ TITLE:
Repeat of the title being played
↺ OFF:
Normal playback mode

[CD]
↺ T: Repeat of the track being played
↺ ALL:
Repeat all tracks
↺ OFF:
Normal playback mode
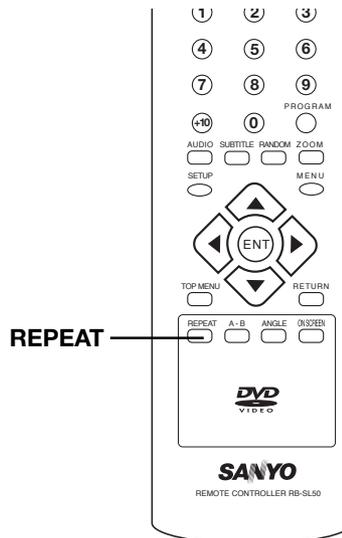
REPEAT

Designated Range Repeat Playback (A-B Repeat)

1. Press [A-B] during playback at the beginning of the section you want to repeat (Point A).
   • " ⌐...⌐ A-" appears briefly on the TV screen.

2. Press [A-B] again at the end of the section you want to repeat (Point B).
   • " ⌐...⌐ A-B" appears briefly on the TV screen.
   The section between points A and B is played repeatedly.

3. To return to normal playback, press [A-B] again.
   • " ⌐...⌐ OFF " appears briefly on the TV screen.

Note:
Repeat playback or A-B repeat playback mode may not work correctly with some discs.
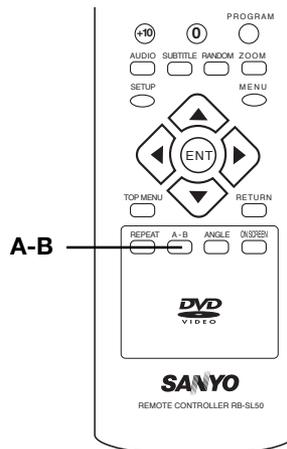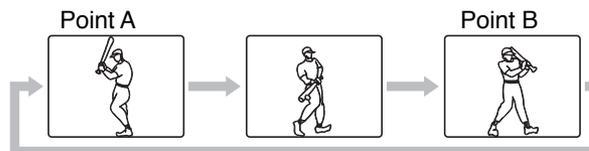
Point A   Point B

A-B

Important Note:

" ⊘ " may appear on the TV screen during operation. This icon means that the function is not available on the disc now.

Need help? Call
1-800-813-3435

Random Playback [CD]

1. Press [RANDOM] in the stop mode.
    - "RANDOM ON" appears briefly on the TV screen.

2. Press [► PLAY] to start random playback.
   The unit will automatically select tracks at random.

Notes:
To stop random playback, press [■ STOP] and [RANDOM].
"RANDOM OFF" appears briefly.

Important Note:

" $\bigcirc$ " may appear on the TV screen during operation.
This icon means that the function is not available on the
disc now.
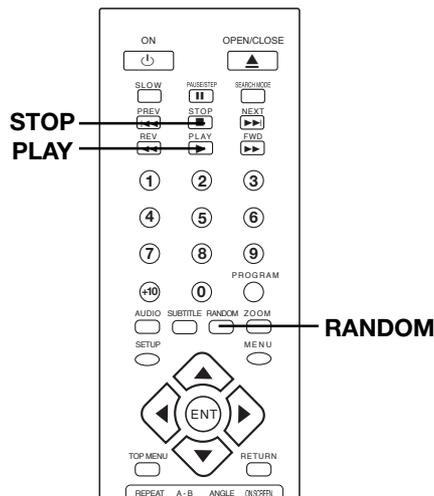
Programmed Playback [CD]

Up to 32 selections can be programmed.

Programming procedure

1. Press [PROGRAM] in the stop mode.
    - "PROGRAM P00:00" appears on the TV screen.

2. Press the number buttons to select the track number.
   Example:
     To select Track No.3, press [3].
     To select Track No.10, press [+10], then [0].
     To select Track No.24, press [+10], [+10], then [4].

   Example:
     PROGRAM P01:03
     (The track No.3 is set to the first programmed number.)

3. Repeat step 2 as above to select other tracks.

   Example:
     PROGRAM P02:10
     PROGRAM P03:24

4. Press [► PLAY] to start programmed playback.
   When all programmed selections have played, the unit
   stops automatically.
    - The programmed contents are retained in memory. If
      [► PLAY] is pressed again, programmed playback
      starts.

Note:
To cancel the program, do one of the following:
- Press [■ STOP] twice.
- Press [PROGRAM] in the stop mode. ("PROGRAM
  P00:00" appears.)

Need help? Call
1-800-813-3435

Selecting Subtitle Language [DVD]

This operation works only with discs on which multiple sub-title languages are recorded.

1. Press [SUBTITLE] during playback.
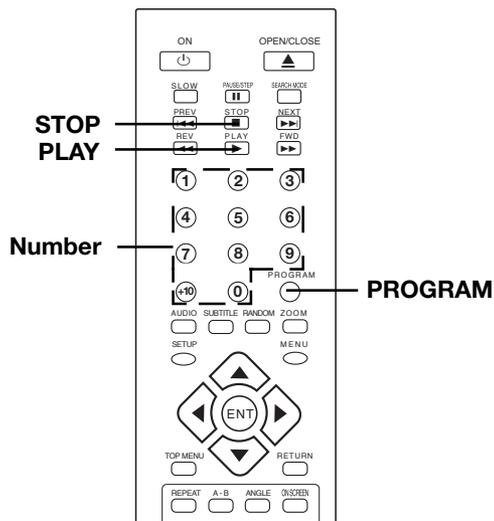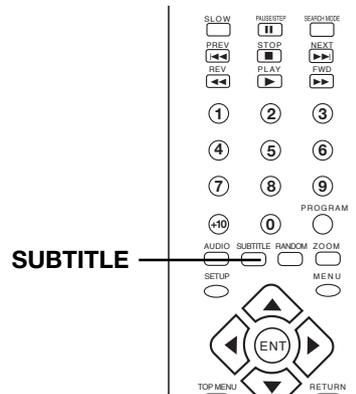   The subtitle language mark appears.
   (Example: ☐ 01/03: EN)
   If "☐ OFF" appears, press the button again.

2. Press [SUBTITLE] repeatedly until the desired subtitle language appears on the TV screen.
   Example:
      ☐ 03/03: FR

   After a few seconds, "☐" disappears.

Notes:
- In some cases, the subtitle language is not changed to the selected one.
- When a disc supporting closed caption is played, the sub-title and the closed caption may overlap each other on the TV screen. In this case, turn the subtitle off.
- When the desired language is not selected even if the button is pressed, the language is not available on the disc.
- When the power is turned on or the disc is replaced, se-lect the subtitle language again.
- If the subtitle language is not necessary, press [SUBTITLE] to select "☐ OFF".
- Please refer to "Setting Language" on page E31.

SUBTITLE

Important Note:
" ⃠ " may appear on the TV screen during operation. This icon means that the function is not available on the disc now.

Selecting Audio Soundtrack Language (Multi-Language) [DVD]

This operation works only with discs on which multiple audio soundtrack languages are recorded.

1. Press [AUDIO] during playback.

2. Press [AUDIO] repeatedly until the desired language ap-pears on the TV screen.
   Examples:

      ☐ 01/04 DOLBY D 2CH EN
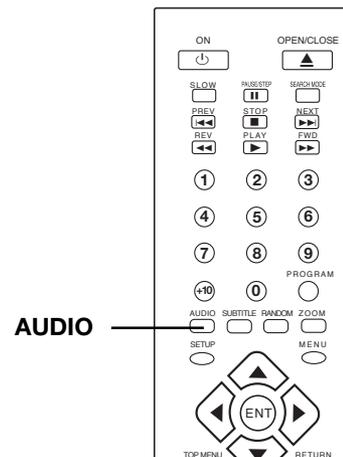
Notes:
- When the desired language is not selected even if the button is pressed, the language is not available on the disc.
- When the power is turned on or the disc is replaced, se-lect the language again.
- If the language is not recorded on the disc, only the avail-able language on the disc will be heard.
- If a DVD video disc which contains DTS is played back, its picture is displayed on the TV screen, but its sound is not provided.

AUDIO

Need help? Call
1-800-813-3435

Selecting On-Screen Information

Press [ON SCREEN] repeatedly to show the disc information (Title, Chapter, Title elapsed playing time, Language, etc.).

Example for DVD:

1. Press [ON SCREEN] during playback.
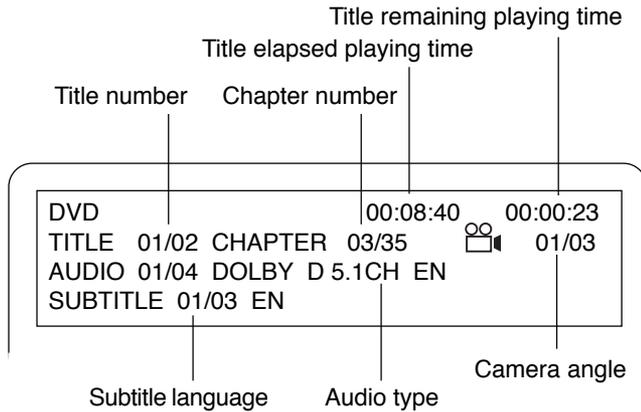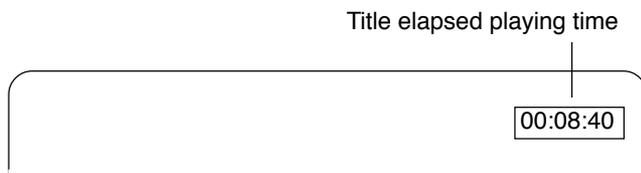
Title remaining playing time

Title elapsed playing time

Title number   Chapter number

```
DVD                   00:08:40    00:00:23
TITLE   01/02  CHAPTER  03/35         01/03
AUDIO  01/04  DOLBY  D 5.1CH  EN
SUBTITLE  01/03  EN
```

Subtitle language   Audio type

Camera angle

2. Press [ON SCREEN] again.

Title elapsed playing time

00:08:40

3. Press [ON SCREEN] to close the disc information.

Example for CD:

1. Press [ON SCREEN] during playback.

Track elapsed playing time

```
CD                              00:02:23
TRACK  01/12
```

2. Press [ON SCREEN] again.

Track elapsed playing time

00:02:24
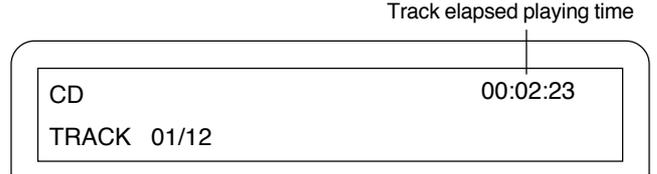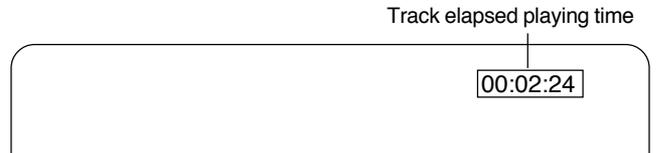
3. Press [ON SCREEN] to close the disc information.
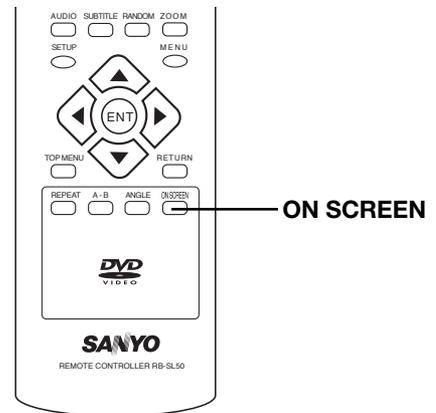
ON SCREEN

Important Note:
" ⃠ " may appear on the TV screen during operation. This icon means that the function is not available on the disc now.

TVGuardian® OPERATION

Before Setting

- Initial setting is "CC2" on this unit.
- Please set "CC2" or "C2" (Closed caption on channel 2) on your TV first. For more details, please refer to your TV instruction manual.
- When "TVG MODE" is set, the subtitle language may not appear.

Setting TVGuardian®

1. Press [SETUP] in the stop mode.
   "SETUP" screen appears.

```
                    SETUP

              ┌──────────────────────┐
              │      LANGUAGE        │
              ├──────────────────────┤
              │      DISPLAY        │
              ├──────────────────────┤
              │    DIGITAL OUT      │
              ├──────────────────────┤
              │      PARENTAL       │
              ├──────────────────────┤
              │        TVG          │
              └──────────────────────┘
```

2. Press [▼] to select "TVG".

3. Press [ENT].
   "TVG" screen appears.

```
                       TVG

   ┌────────────────────┐  ┌──────────────────┐
   │ TVG MODE           │▷ │ OFF              │
   ├────────────────────┤  ├──────────────────┤
   │ DAMN/HELL          │  │ TOLERANT         │
   ├────────────────────┤  ├──────────────────┤
   │ RELIGIOUS          │  │ MODERATE         │
   ├────────────────────┤  ├──────────────────┤
   │ SEXUAL REFERENCE   │  │ STRICT           │
   ├────────────────────┤  └──────────────────┘
   │ TVG CC MODE        │
   ├────────────────────┤
   │ TVG CC CH          │
   └────────────────────┘

   ┌────────────────────┐
   │ MAIN MENU          │
   └────────────────────┘
```

4. Press [▶] to select the submenu of "TVG MODE".

5. Press [▼] or [▲] to select the submenu.

   OFF:
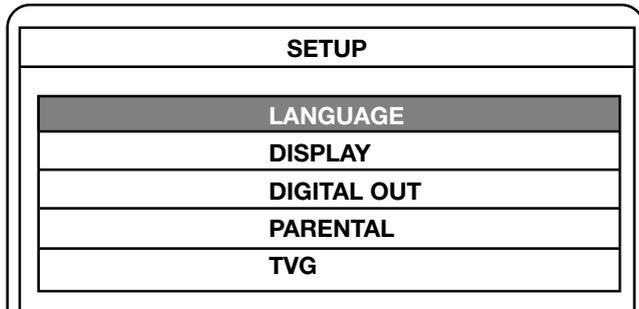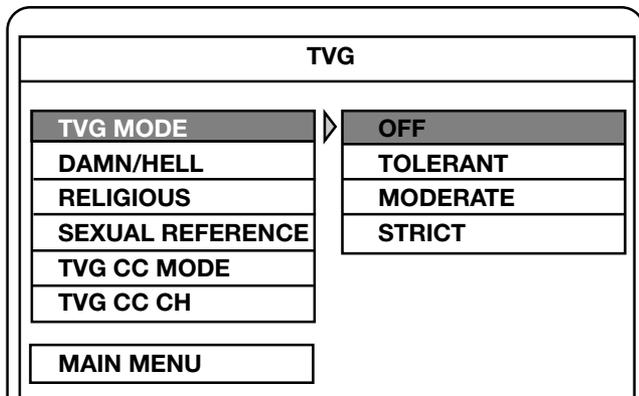   TVG doesn't operate.
   TOLERANT:
   Only the most offensive foul language will be filtered.
   MODERATE:
   More offensive foul language will be filtered.
   STRICT:
   All the foul language will be filtered.

6. Press [ENT].
   The password confirmation screen appears.

7. Enter the password in the box.
   (For more details, please refer to "Setting Parental" on page E34.)

In this instruction manual, the language in on-screen display is English. If you change the language (see page E31), please follow the selected language in on-screen display.
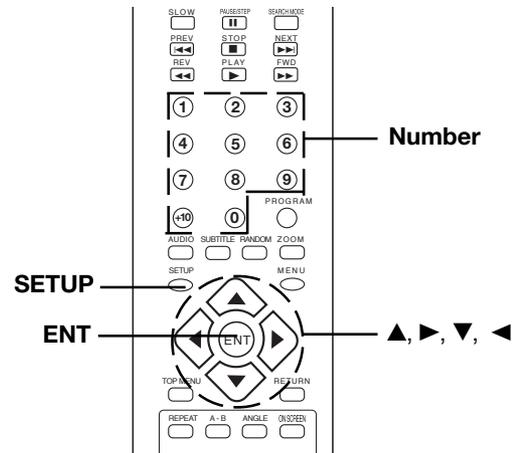
8. Press [ENT].
   The submenu is set.
   "TVG" screen returns.

9. Press [◀] to skip back to "TVG MODE".

10. Repeat steps 2 - 9 to set other items ("DAMN/HELL", "RELIGIOUS", "SEXUAL REFERENCE", "TVG CC MODE" and "TVG CC CH").

   Note on the submenu of "TVG CC MODE"
   OFF:
   No closed caption.
   ON MUTE:
   Display the modified text only.
   ALWAYS:
   Display all text with the modified text.

   Note:
   Set "TVG CC CH" to "CC2".

11. Press [SETUP] to close the screen.

Note:
To return to the "SETUP" screen, press [▼] to select "MAIN MENU", and press [ENT].

Need help? Call
1-800-813-3435

How It Works After Setting TVGuardian®:
When a disc supporting closed caption is played, it mutes the entire phrase instead of just the swear word and displays the modified text, by design. It turns the sound back on when the phrase is completed.

Examples:
The phrase "Get the hell out", is muted and "Get Out.", is displayed.
The phrase "Move you're a– !", is muted and "Move your tail!", is displayed.

IMPORTANT INFORMATION:
- Use a TV with closed caption capability and set the function to "On".
- Set the same channel number on your TV as above.
- The built-in TVGuardian® Foul Language Filter (TVG®) works only English language DVD video disc supporting closed caption, not any other languages.
- **For improvement, on-screen displays subject to change without notice.**

Notes:
- Foul word that are normally filtered are missed when closed-captioning errors exist (i.e. a foul word is not captioned, misspelled or is not synchronized with the spoken word.)
- The built-in Foul Language Filter may not work on some discs depending on recording conditions.
- DVD video discs may or may not respond to the TVG Mode settings. Make sure this function works with your DVD video discs.
- If you want to see the original closed caption, set "TVG MODE" to "OFF".

TVGuardian® and TVG® are registered trademarks of Principle Solutions, Inc.

MP3 CD OPERATION

Before Starting

This unit can play back the CD that has recorded music data, MP3 files.
- The file system is ISO9660 Level 1 and Level 2.
- If the CD has both audio CD tracks and MP3 files, only audio CD tracks are played.
- It may take 30 seconds or more for this unit to read MP3 files. It depends on its structure.
- This unit can recognize up to 256 files or folders per disc. The CD with 257 files or folders and over is not available to this unit.
- MP3 CDs may not be played in the recorded order.
  1. Please use the MP3 software with the function that can record data alphabetically or numerically.
  2. Please avoid making many sub-folders by preference.

However, some CD-R/RWs cannot be played back depending on the recording conditions.
Before playing back MP3 files, please read the following.

MP3 CD
- MP3 files must have the extension letters, ".MP3" or ".mp3".
- Standard, sampling frequency, and the bit rate:
  MPEG-1 Audio
  32kHz, 44.1kHz, 48kHz
  32kbps ~ 320kbps (constant bit rate or variable bit rate)
- The recommended recording setting for a high-quality sound is 44.1kHz of sampling frequency and 128kbps of constant bit rate.
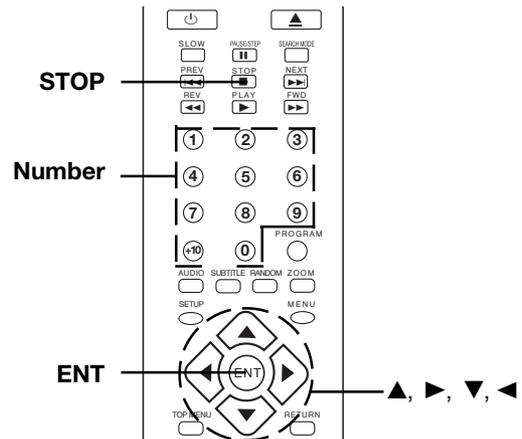
LIMITATIONS ON DISPLAY
Available letters for display are the following: capital or small alphabets of A through Z, and numbers of 0 through 9.

CAUTION:
- Some MP3 CDs cannot be played back depending on the recording conditions.
- The CD has no music data or non-MP3 files cannot be played back.
- The WMA files cannot be played back.

MP3 CD Playback

1. Load the disc with the label facing up on the disc tray. (Please refer to "BASIC OPERATION" on page E15.)
   - "FILE" screen appears.

   Note:
   Some discs may start playback automatically.

2. To select the folder or file, do one of the following:
   - Press the number button(s).
     Example:
     To select No.3, press [3].
     To select No.10, press [+10], then [0].
     To select No.24, press [+10], [+10], then [4].
   - Press [▲], [►], [◄] or [◄] to select the folder or file, and press [ENT].

   - The file menu of the selected folder appears.
   - If the file is selected, the selected file playback starts.
3. Repeat step 2 to select the file in the file menu. Playback starts.

   Note:
   If the disc is loaded with the label side downward, or if a badly scratched disc is loaded, "NO DISC" or "NO PLAY" appears on the TV screen. If this occurs, load the disc correctly or replace the disc.

Stopping Playback
Press [■ STOP] during playback.

Need help? Call
1-800-813-3435

Pause

Press [❙❙ PAUSE/STEP] during playback.
- " ❙❙ " appears on the TV screen.
- The PLAY indicator blinks on the unit.

Note:
The sound is muted.

The [► PLAY] to return to normal playback.

File Skip

Skipping forward

Press [NEXT ►►❙] during playback to skip to the next file.
"►►❙" appears briefly on the TV screen.

Skipping backward

Press [PREV ❙◄◄] during playback to skip back to the beginning of the previous file.
"❙◄◄" appears briefly on the TV screen.

Repeat Playback

Press [REPEAT] during playback.
Each time the button is pressed, the repeat mode will be changed as follows:

⟲ T:	Repeat of the file being played
⟲ FOLDER:	Repeat all files in the folder
⟲ ALL:	Repeat all files (and all JPEG)
⟲ OFF:	Normal playback mode

To Check the Elapsed Playing Time

Press [ON SCREEN] during playback.
- The current file elapsed playing time appears.

Press the button again to turn if off.
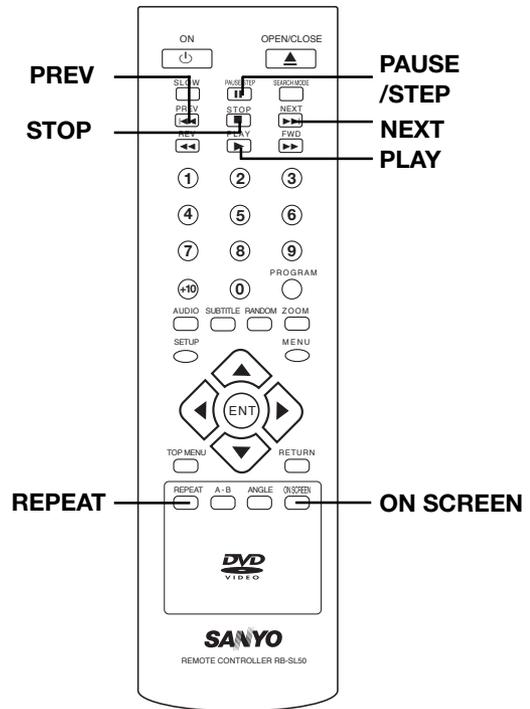
Important Note:
" ⊘ " may appear on the TV screen during operation. This icon means that the function is not available on the disc now.

Need help? Call
1-800-813-3435

-E28-

PICTURE DISC OPERATION

KODAK Picture CD Playback

With KODAK Picture CD, it's easy to turn film into pictures you can email from your PC and view on this DVD video player! Just bring your film in for processing, and check the box for KODAK Picture CD. You'll get back your prints and negatives as usual - plus you'll get a special CD that contains your pictures along with software that lets you view, enhance, share, and print your pictures from your computer and view them on this DVD video player.

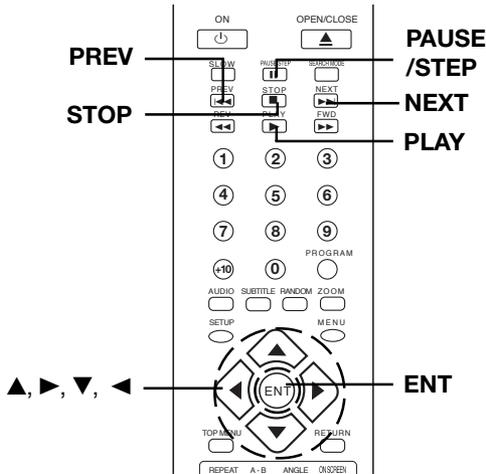

1. Load the disc with the label facing up on the disc tray. (Please refer to "BASIC OPERATION" on page E15.)
   • The first thumbnail pictures (maximum 9-picture) appear on the TV screen.
   Example:

2. Press [▲], [▶], [▼] or [◀] to move the cursor to the desired picture.
   • To go to the next or previous thumbnail pictures, press [NEXT ▶▶|] or [PREV |◀◀].

3. Press [ENT] (or [▶ PLAY]) to start the slide show from the selected picture.
   • If you press [II PAUSE/STEP] during the slide show, the slide show stops temporarily. "II" appears briefly. Press [▶ PLAY] (or [NEXT ▶▶|]) again to resume the slide show.
   • **If the picture appears upside down, sideways, etc...** Press [▲], [▶], [▼] or [◀] as follows:

   ▶: Rotate it 90 degrees clockwise.
   ◀: Rotate it 90 degrees counterclockwise.
   ▲: Change it to the mirrored image picture upside down.
   ▼: Change it to the mirrored right-and-left reversed image picture.

   • If you press [NEXT ▶▶|] or [PREV |◀◀], during the slide show, it skips to the next picture or previous picture.

   ⬇

   After the last picture has displayed, the last thumbnail pictures appear.
   • To stop the slide show, press [■ STOP]. The thumbnail pictures appear.

Notes:
• If the disc is loaded with the label side downward, or if a badly scratched disc is loaded, "NO DISC" or "NO PLAY" appears on the TV screen. If this occurs, load the disc correctly or replace the disc.
• The file system is ISO9660 Level 1 and Level 2.
• This unit can recognize up to 256 files or folders per disc. The CD with 257 files or folders and over is not available to this unit.
• FUJICOLOR CD can be used.
• Some discs cannot be played back depending on the recording conditions.
• It may take 30 seconds or more for this unit to read KODAK Picture CDs. It depends on its structure.

Need help? Call
1-800-813-3435

KODAK and Picture CD are registered trademarks of Eastman Kodak company.

JPEG CD Playback

You can also view digital images from JPEG files on disc created by your computer.

- It would take 30 seconds or more for this unit to read the JPEG files depending on its structure.
- Some JPEG files cannot be played back depending on the recording conditions.

1. Load the disc with the label facing up on the disc tray. (Please refer to "BASIC OPERATION" on page E15.)
   - "FILE" screen appears.

   Note:
   Some discs may start the side show automatically.

2. To select the file, do one of the following:
   - Press the number button(s).
     Example:
     To select No.3, press [3].
     To select No.10, press [+10], then [0].
     To select No.24, press [+10], [+10], then [4].
   - Press [▲], [►], [▼] or [◄] to select the file, and press [ENT].

   ⬇

   The slide show starts.

If the picture appears upside down, sideways, etc...

Press [▲], [►], [▼] or [◄] as follows:
- ►: Rotate it 90 degrees clockwise.
- ◄: Rotate it 90 degrees counterclockwise.
- ▲: Change it to the mirrored image picture upside down.
- ▼: Change it to the mirrored right-and-left reversed image picture.

Notes:
- To stop the slide show, press [■ STOP].
- If the disc is loaded with the label side downward, or if a badly scratched disc is loaded, "NO DISC" or "NO PLAY" appears on the TV screen. If this occurs, load the disc correctly or replace the disc.
- The file system is ISO9660 Level 1 and Level 2.
- This unit can recognize up to 256 files or folders per disc. The CD with 257 files or folders and over is not available to this unit.
- JPEG resolution is up to 5120 x 3840.
- Some discs cannot be played back depending on the recording conditions.
- If you press [NEXT ►►|] or [PREV |◄◄] during the slide show, it skips to the next picture or previous picture.

Important Note:
" ⃠ " may appear on the TV screen during operation. This icon means that the function is not available on the disc now.

Picture Zoom

1. Press [❙❙ PAUSE/STEP] at the desired picture (KODAK Picture CD or JPEG CD).

2. Press [ZOOM] to select "🔍".

3. Press [FWD ►►] or [REV ◄◄] to select the desired picture size.

   - To return to the original size, select "🔍 OFF".
   - Press [► PLAY] to resume the slide show.
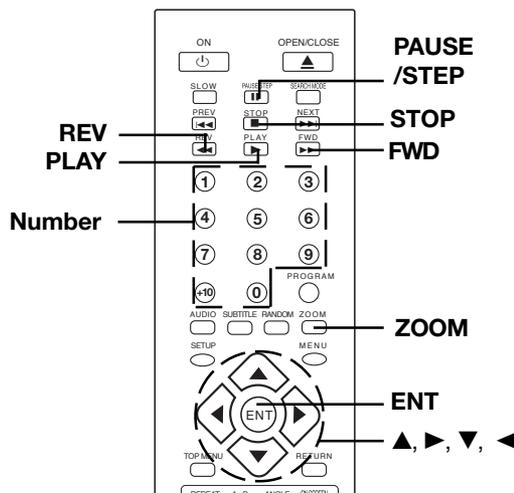
If the disc is mixed with MP3 and JPEG files...
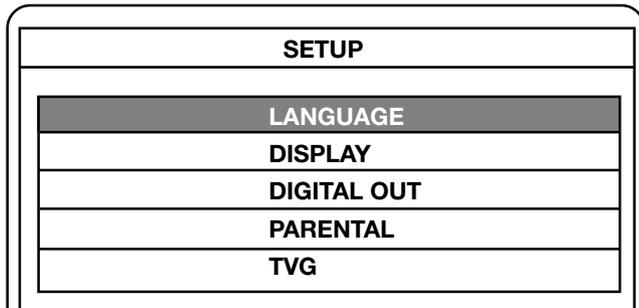The files will be played back in alphabetical order.

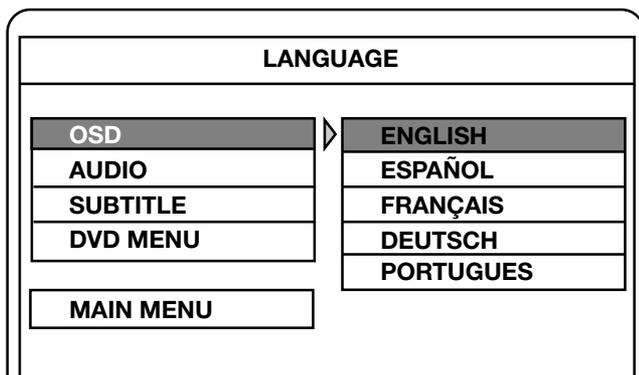
Need help? Call
1-800-813-3435

INITIAL SETTINGS

Once the initial settings have been completed, the unit can always be operated under the same conditions.
The settings will be retained in the memory until they are changed, even if the power is turned off.
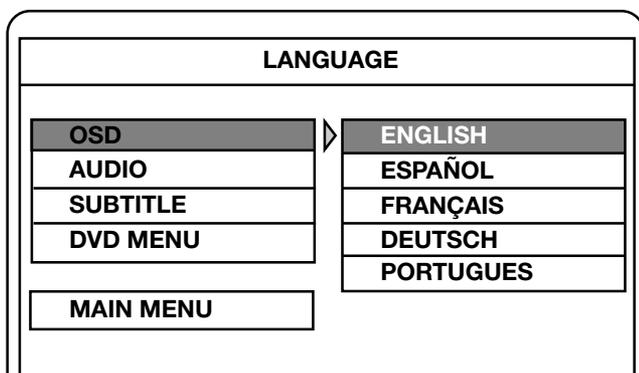
Setting Language

1. Press [SETUP] in the stop mode.
   "SETUP" screen appears.
   "LANGUAGE" is highlighted.

SETUP
LANGUAGE
DISPLAY
DIGITAL OUT
PARENTAL
TVG

2. Press [ENT].
   "LANGUAGE" screen appears.
   "OSD (on-screen display)" is highlighted.

LANGUAGE
OSD   ▷ **ENGLISH**
AUDIO   **ESPAÑOL**
SUBTITLE   **FRANÇAIS**
DVD MENU   **DEUTSCH**
PORTUGUES
MAIN MENU

3. Press [▶] to select the submenu of "OSD".

4. Press [▼] or [▲] to select the language (highlighted).

5. Press [ENT].
   The OSD language is set.
   (In this example, "OSD" is English.)

LANGUAGE
OSD   ▷ **ENGLISH**
AUDIO   **ESPAÑOL**
SUBTITLE   **FRANÇAIS**
DVD MENU   **DEUTSCH**
PORTUGUES
MAIN MENU

6. Press [◀] to skip back to "OSD".

7. Press [▼] to select "AUDIO".
   The sub menu ("DISC", "ENGLISH", "SPANISH", "FRENCH", "GERMAN" and "PORTUGUESE") appears.

8. Press [▶] to select the submenu of "AUDIO".

9. Press [▼] or [▲] to select the language (highlighted).

10. Press [ENT].
    The AUDIO language is set.

11. Press [◀] to skip back to "AUDIO".

12. Repeat steps 7 ~ 11 to set "SUBTITLE" and "DVD MENU".

13. Press [SETUP] to close the screen.

Note:
To return to the "SETUP" screen, press [▼] to select "MAIN MENU", and press [ENT].

Setting Display

1. Press [SETUP] in the stop mode.
   "SETUP" screen appears.

```
               SETUP

          LANGUAGE
          DISPLAY
          DIGITAL OUT
          PARENTAL
          TVG
```
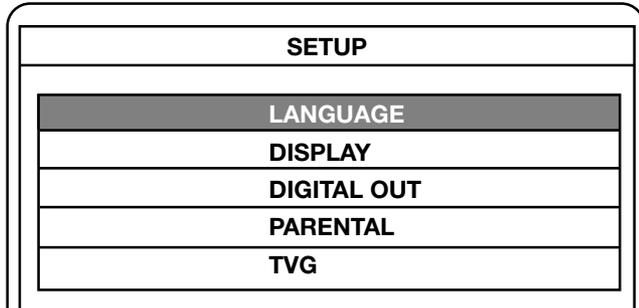
2. Press [▼] to select "DISPLAY".

3. Press [ENT].
   "DISPLAY" screen appears.

```
               DISPLAY

   TV TYPE          ▷   4 : 3 LB
                        4 : 3 PS
   MAIN MENU            16 : 9
```
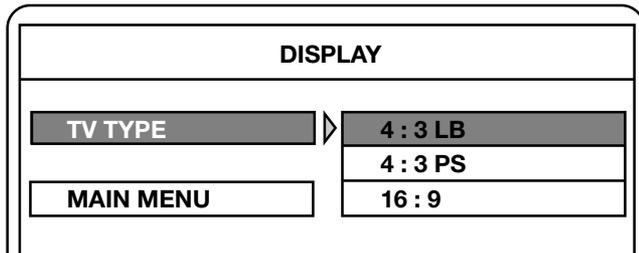
4. Press [▶] to select the submenu of "TV TYPE".

5. Press [▼] or [▲] to select the appropriate setting for your
   TV screen size ("4:3 LB", "4:3 PS" or "16:9").

   4:3 LB (Letterbox):
   Select when a conventional TV set
   is connected.
   When the wide screen disc is played
   back, the black bands appear at the
   top and bottom of screen.

   4:3 PS (Panscan):
   Select when a conventional TV set
   is connected.
   When the wide screen disc is played
   back, it displays pictures cropped to
   fill to your TV screen. The left and   Cut off   Cut off
   right edges are cut off.
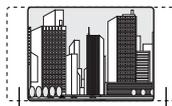
   16:9 :
   Select when a wide screen TV set
   is connected.
   Played in "FULL" size. (Setting the
   wide screen TV to "FULL" mode is
   also necessary.)

   Notes:
   • The screen size may differ depending on the DVD
     video discs.
   • If you select 16:9 to get rid of the black bands on screen
     when wide screen disc is played back, picture may be
     slightly distorted.
   • In some discs, even if 4:3 PS is selected, the black
     bands may remain on the screen.
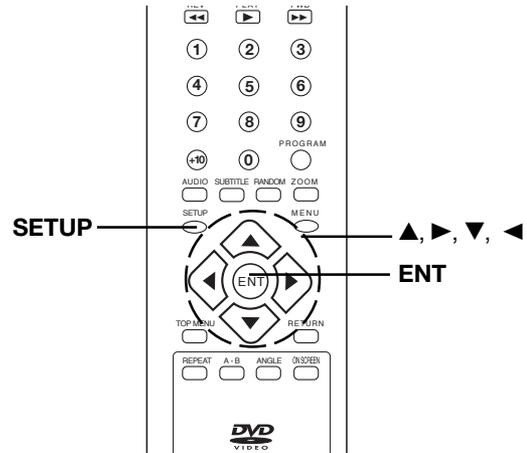
6. Press [ENT].
   The TV type is set.

7. Press [◀] to skip back to "TV TYPE".

8. Press [SETUP] to close the screen.

Note:
To return to the "SETUP" screen, press [▼] to select "MAIN
MENU", and press [ENT].

Need help? Call
1-800-813-3435

-E32-

Setting Digital Out

If the COAXIAL (Coaxial digital output) jack is connected to the amplifier, you must set as follows:

SETUP — ▲, ►, ▼, ◄

ENT

1. Press [SETUP] in the stop mode.
   "SETUP" screen appears.

```
                    SETUP

              ┌─────────────────────┐
              │      LANGUAGE       │
              ├─────────────────────┤
              │      DISPLAY        │
              ├─────────────────────┤
              │    DIGITAL OUT      │
              ├─────────────────────┤
              │     PARENTAL        │
              ├─────────────────────┤
              │        TVG          │
              └─────────────────────┘
```

2. Press [▼] to select "DIGITAL OUT".

3. Press [ENT].
   "DIGITAL OUT" screen appears.

```
                 DIGITAL OUT

   ┌───────────────────┐  ▷ ┌──────────────────┐
   │  DOLBY DIGITAL    │    │   LPCM           │
   ├───────────────────┤    ├──────────────────┤
   │  MPEG             │    │   BITSTREAM      │
   ├───────────────────┤    └──────────────────┘
   │  96kHz LPCM       │
   └───────────────────┘

   ┌───────────────────┐
   │  MAIN MENU        │
   └───────────────────┘
```
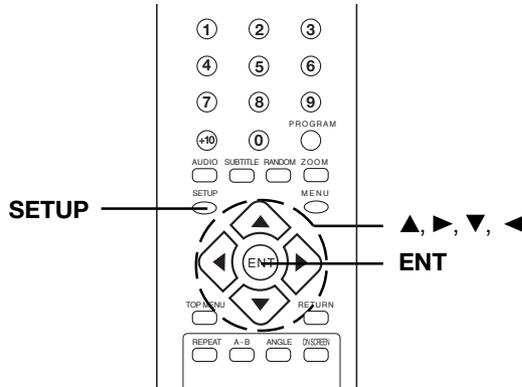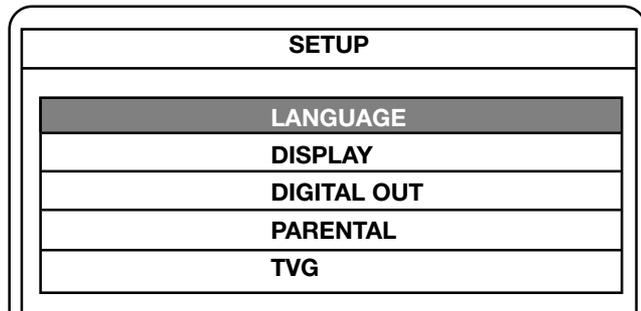
4. Press [►] to select the submenu.

5. Press [▼] or [▲] to select "LPCM" or "BITSTREAM".

> **DOLBY DIGITAL:**
> If your amplifier has Dolby Digital Decoder, select "BITSTREAM". If not, select "LPCM".

6. Press [ENT].
   The submenu is set.

7. Press [◄] to skip back to "DOLBY DIGITAL".

8. Repeat steps 2 - 7 to set other items ("MPEG" and "96kHz LPCM").

> **MPEG (Moving Picture Expert Group):**
> If your amplifier has MPEG2 Decoder, select "BITSTREAM". If not, select "LPCM".
>
> **96kHz LPCM (96kHz Liner Pulse Code Modulation):**
> If your amplifier is available for 96kHz sampling, select "96kHz LPCM". If not, select "48kHz LPCM".
>
> Notes:
> • When "48kHz LPCM" is set, 48kHz LPCM audio signals are provided from the AUDIO OUT jacks, not 96kHz LPCM audio signals.
> • When playing back the DVD video disc which recorded with 96kHz LPCM, there is no digital output.
> • However playing back the DVD video disc with no copyright protection, the sound is original recorded sound.

9. Press [SETUP] to close the screen.

Note:
To return to the "SETUP" screen, press [▼] to select "MAIN MENU", and press [ENT].

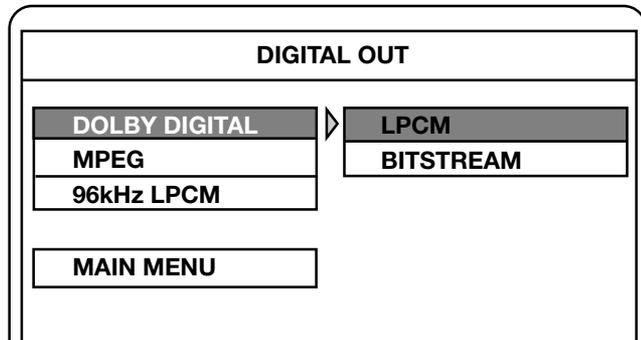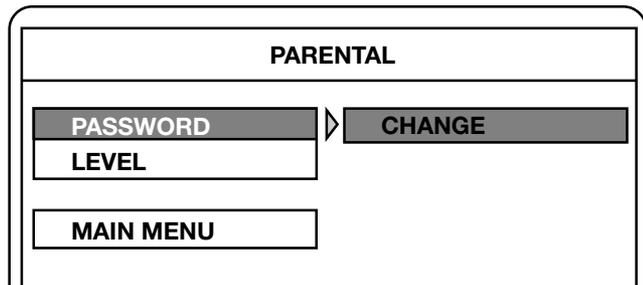**Need help? Call**
1-800-813-3435

-E33-

Setting Parental

Note:
The PASSWORD is set to "0000" before shipping from the factory.

1. Press [SETUP] in the stop mode.
   "SETUP" screen appears.

2. Press [▼] to select "PARENTAL".

3. Press [ENT].
   "PARENTAL" screen appears.

```
                    PARENTAL

    PASSWORD          ▷    CHANGE
    LEVEL

    MAIN MENU
```

4. Press [▶] to select "CHANGE".

5. Press [ENT].
   "PASSWORD CHANGE" screen appears.

6. Press the number buttons to enter the 4 digits password in "OLD PASSWORD".

   ⬇

   "NEW PASSWORD" is highlighted.

   Note:
   If you change the password for the first time, enter [0], [0], [0] and [0].
   Because the initial password is set to "0000" before shipping from the factory.
   If [RETURN] is pressed, "PARENTAL" screen returns.

7. Press the number buttons to enter a new 4 digits password in "NEW PASSWORD".

   ⬇

   "CONFIRM" is highlighted.

8. Enter the same password in "CONFIRM".

9. Press [ENT].
   The password is set.
   "PARENTAL" screen returns.

10. Press [◀] to skip back to "PASSWORD".

11. Press [▼] to select "LEVEL".
    The submenu appears.

12. Press [▶] to select the submenu of "LEVEL".

13. Press [▼] or [▲] to select the parental lock level ("OFF" ~ "8").

14. Press [ENT].
    The password confirmation screen appears.
    Note:
    If [RETURN] is pressed, "PARENTAL" screen returns.
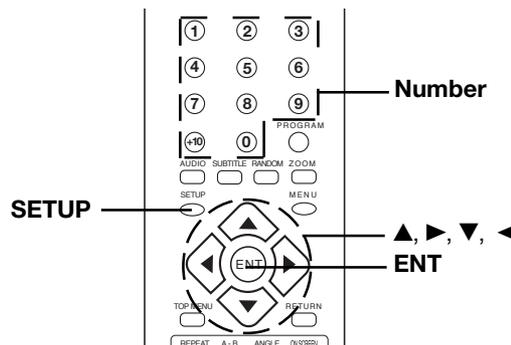
15. Enter the same password in the box.

16. Press [ENT].
    The parental lock level is set.
    "PARENTAL" screen returns.

17. Press [◀] to skip back to "LEVEL".

18. Press [SETUP] to close the screen.

Note:
To return to the "SETUP" screen, press [▼] to select "MAIN MENU", and press [ENT].

Parental Control
MPAA (Motion Picture Association of America) Guideline is a rating system that provides advanced cautionary information to parent about the content of movie programs.

The parental lock level is equivalent to the following MPAA Rating System.
Level 8: Adult
Level 7: NC-17 (No one 17 and under admitted)
Level 6: R (Restricted)
Level 4: PG-13 (Parents strongly cautioned)
Level 3: PG (Parental guidance suggested)
Level 1: G (General audiences)

Some DVD discs contain a restriction level which enables parents to prevent playback of discs by children. This unit is equipped with a password designed to prevent children changing the level.

You cannot play DVD video discs rated higher than the level you selected unless you cancel the parental lock function.
For example, when you select level "5", the unit will not play discs with ratings of "6", "7" or "8".
The information will appear on the TV screen.

If you forget the password...
In "NO DISC" mode, enter the "PARENTAL" menu, enter [+10], [+10], [+10], [+10], even if 4 digits "XXXX" appears. See the left column to set the password and parental lock level again.

Note:
DVD video discs may or may not respond to the parental lock settings. Make sure this function works with your DVD video discs.

TROUBLESHOOTING GUIDE

If you have followed the instructions and are having difficulty operating the unit, locate the SYMPTOM in the left column below. Check the corresponding POSSIBLE CAUSE and CORRECTIVE ACTION columns to locate and remedy the problem.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
No power.	No power plug connection at the AC wall outlet.	Insert the power plug into the AC wall outlet.
The power is on, but the player does not work.	No disc is loaded.	Load a disc.
No picture.	An unplayable disc is loaded.	Load a playable disc. (Check the disc logo, type, color system and region number. See page E14.)
	The TV is not set to receive signal from the player.	Select the correct input function on the TV.
	The video cable is not connected.	Connect the video cable into the jack.
	The S-video cable is not connected.	Connect the video cable into the jack.
	"PROGRESSIVE" mode is set.	Select "INTERLACE" mode. (See page E15.)
No sound.	The TV is turned off.	Turn on the TV.
	The audio cables are not connected.	Connect the audio cables into the jacks.
	The audio equipment is turned off.	Turn on the audio equipment connected with the audio cable.
The playback picture is poor.	An unplayable disc is loaded.	Load a playable disc. (Check the disc logo, type, color system and region number. See page E14.)
" $\bigcirc$ " appears on the TV screen.	The selected function does not operate on the disc now.	The feature or action cannot be completed at this time because: • The feature is not available at the moment. • The DVD software restricts it. • The DVD software doesn't support the feature (e.g., angles).
The unit does not start playback.	No disc is loaded.	Load a disc.
	An unplayable disc is loaded.	Load a playable disc. (Check the disc logo, type, color system and region number. See page E14.)
	The disc is loaded with the label side down.	Load the disc on the disc tray correctly.
	The disc is dirty.	Clean the disc or replace it. (See page E14.)
	"PARENTAL" is set.	Cancel the parental lock function or change the rating level. Reset it after play. (See page E34.)
"NO PLAY" appears on the TV screen.	An unplayable disc is loaded.	Load a playable disc. (Check the disc logo, type, color system and region number. See page E14.)
	"PARENTAL" is set.	Cancel the parental lock function or change the rating level. Reset it after play. (See page E34.)
	The disc may not have the correct file or data.	Load a playable disc.

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SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
The operation or display is not normal.	The unit must be reset.	1. Disconnect the power cord. 2. Reconnect the power cord. 3. Resume operation.
The remote control does not work properly.	The batteries in the remote control are weak, or installed incorrectly.	Check the battery polarity (+ or –). Replace the batteries. (See page E6.)
	The remote control is not aimed at the remote sensor window.	Aim the remote control at the remote sensor window. (See page E6.)

SERVICING:
Should this product require service, refer to the SANYO DVD limited warranty.

If you do not have a convenient SANYO service station nearby, contact the SANYO dealer where you purchased the unit. Be sure to give the model number and explain the problem. The dealer will advise you how to obtain service.

MAINTENANCE

WARNING:
FOR YOUR PERSONAL SAFETY, BE SURE TO DISCONNECT THE AC POWER CORD BEFORE PROCEEDING WITH ANY MAINTENANCE OR CLEANING.

Cleaning the cabinet
Use a clean soft cloth moistened with plain lukewarm water and wrung dry. Never use benzol, benzene or other strong chemical cleaners since these could damage the finish of your unit. It is important that no liquid reaches the inside of the unit.

SPECIFICATIONS

Type:
    DVD Video player
Signal format:
    NTSC color
Laser:
    Semiconductor laser, wavelength 650 nm/790 nm
Frequency range (digital audio):
    4 Hz to 44 kHz (DVD fs: 96 kHz)
Signal to noise ratio:
    More than 96 dB
Harmonic distortion (digital audio):
    0.01 %
Wow and flutter:
    Below measurable level

Outputs:
    S-VIDEO OUT:
        Y: 1.0 $V_{p\text{-}p}$ (75 Ω)
        C: 0.286 $V_{p\text{-}p}$ (75 Ω)
    COMPONENT VIDEO OUT:
        Y: 1.0 $V_{p\text{-}p}$ (75 Ω)
        P_b: 0.7 $V_{p\text{-}p}$ (75 Ω)
        P_r: 0.7 $V_{p\text{-}p}$ (75 Ω)
    AUDIO OUT:
        2 V rms
    VIDEO OUT:
        1.0 $V_{p\text{-}p}$ (75 Ω)
    COAXIAL:
        Coaxial digital output
Power requirements:
    AC 120 V, 60 Hz
Power consumption:
    11 Watts
Dimensions (W x H x D):
    Approx. 14.2" x 2" x 9.5" (360 x 50.5 x 237 mm)
Weight:
    Approx. 3.5 lbs (1.6 kg)

IMPORTANT INFORMATION
Because its products are subject to continuous improvement, SANYO reserves the right to modify product designs and specifications without notice and without incurring any obligation.

For assistance in obtaining repairs and operational information, please contact the following Toll Free Number:

DIAL TOLL FREE: 1-800-813-3435
Weekdays: 7:30 AM - 4:00 PM Central Time

Also, you may write to SANYO Manufacturing Corporation, 3333 Sanyo Road, Forrest City, Arkansas 72335.

Limited Warranty

LABOR 90 DAYS	PARTS 1 YEAR	CARRY-IN ONLY

THIS WARRANTY IS VALID ONLY ON SANYO PRODUCTS PURCHASED FROM A WAL-MART STORE AND USED IN THE UNITED STATES OF AMERICA AND PUERTO RICO, EXCLUDING THE UNITED STATES' OTHER TERRITORIES AND PROTECTORATES. THIS WARRANTY APPLIES ONLY TO THE ORIGINAL RETAIL PURCHASER AND DOES NOT APPLY TO PRODUCTS USED FOR ANY INDUSTRIAL, PROFESSIONAL OR COMMERCIAL PURPOSE.

Subject to the OBLIGATIONS and EXCLUSIONS below, SANYO Manufacturing Corporation ("SANYO") warrants this SANYO product against defects in materials and workmanship for the periods of LABOR and PARTS specified above. SANYO will repair or replace (at its option) the product and any of its parts which fail to conform to this warranty with new or refurbished products or parts. The warranty period commences on the date the product was first purchased at retail from a Wal-Mart Store.

OBLIGATIONS

In order to obtain warranty service, the product must be delivered to and picked up from a Wal-Mart Store at the original retail purchaser's expense. The original dated bill of sale, or sales slip from a Wal-Mart Store must be submitted to a Wal-Mart Store at the time warranty service is requested.

EXCLUSIONS

1. This warranty does not cover (A) the adjustment of customer-operated controls as explained in the appropriate model's instruction manual, or (B) the repair of any product whose serial number has been altered, defaced or removed.
2. This warranty shall not apply to the cabinet or cosmetic parts, broken or damaged video heads, batteries or routine maintenance.
3. This warranty does not apply to uncrating, setup, installation, removal of the product for repair or reinstallation of the product after repair.
4. This warranty does not apply to repairs or replacements necessitated by any cause beyond the control of SANYO including, but not limited to, any malfunction, defect or failure caused by or resulting from unauthorized service or parts, improper maintenance, operation contrary to furnished instructions, shipping or transit accidents, modification or repair by user or any third party, abuse, misuse, neglect, accident, incorrect line voltage, fire, flood or other Acts of God, or normal wear and tear.

The foregoing is in lieu of all other express warranties and SANYO does not assume or authorize any party to assume for it any other obligation or liability.

THE DURATION OF ANY WARRANTIES WHICH MAY BE IMPLIED BY LAW (INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS) IS LIMITED TO THE TERM OF THIS WARRANTY. IN NO EVENT SHALL SANYO OR THE MANUFACTURER OF THE PRODUCT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM OWNERSHIP OR USE OF THIS PRODUCT, OR FOR ANY DELAY IN THE PERFORMANCE OF ITS OBLIGATIONS UNDER THIS WARRANTY DUE TO CAUSES BEYOND ITS CONTROL.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIAL LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

R05/3/10 (M)

For your protection in the event of theft or loss of this product, please keep the following information with a sales receipt in a safe place.

Model No. ——————————————— Serial No. ——————————————— Date of Purchase ———————————

Purchase Price ————————————— Where Purchased ——————————————

SANYO

Printed in China

SANYO Manufacturing Corporation
SANYO Electric Co., Ltd.