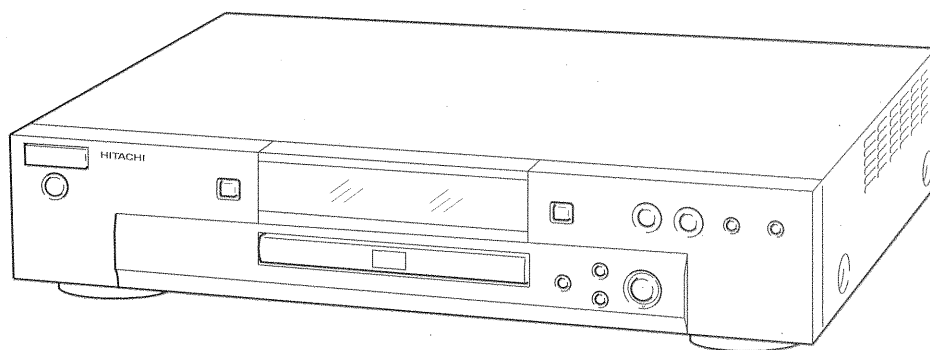
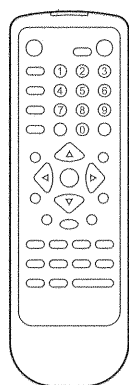


HITACHI

DVD PLAYER

MODEL

DV-P505U



Instruction manual

To obtain the best performance and ensure years of trouble-free use, please read this instruction manual completely.

Mode d'emploi

Des performances optimales et un fonctionnement à long terme seront assurés en appliquant les présentes instructions après avoir entièrement lu ce mode d'emploi.

Manual de instrucciones

Para obtener el mejor funcionamiento y asegurar años de uso libre de problemas, lea cuidadosamente este manual de instrucciones.

INTRODUCTION

PREPARATION

BASIC OPERATION

APPLICATION

PRESETTING

REFERENCE

TABLE OF CONTENTS

INTRODUCTION

IMPORTANT	3
IMPORTANT SAFEGUARDS	4
SAFETY PRECAUTIONS	6
GUIDE FOR READING	10
ACCESSORIES IDENTIFICATION	10
FEATURES.....	11
ABOUT DISCS	11

PREPARATION

DISC HANDLING.....	12
REMOTE CONTROL HANDLING	13
FAMILIARIZATION	14
CONNECTION TO OTHER DEVICES	16

BASIC OPERATION

TO PLAY.....	18
TO TERMINATE	18
TO SKIP A CHAPTER/TRACK	19
TO PAUSE PLAYBACK OR ADVANCE FRAME	19
TO PLAY AT A DIFFERENT SPEED	20
TO RESUME VIEWING (LAST PLAYBACK)	20
TO PLAY USING MENU SCREEN ON DISC.....	21
TO PLAY USING TOP MENU SCREEN ON DISC	21
DIGEST	22
DIRECT SEARCH(TITLE/CHAPTER)	22
DIRECT SEARCH(TIME)	23
DIRECT SEARCH IN CD.....	23

APPLICATION

TO PLAYBACK REPEATEDLY (REPEAT PLAY)	24
PLAYBACK IN A RANDOM SEQUENCE (RANDOM PLAYBACK)	24
TO PLAYBACK IN A PREARRANGED SEQUENCE (PROGRAMMED PLAYBACK).....	25
TO MAGNIFY A PART OF THE SCREEN (ZOOM)	26
TO SELECT VIEW ANGLE	26
TO SELECT A SUBTITLE LANGUAGE	27
TO SELECT AN AUDIO LANGUAGE	27
TO CHANGE SOUND	28
TO GET INFORMATION	28

PRESETTING


TO CHANGE THE OUTPUT FORMAT	29
TO CHANGE THE SURROUND MODE.....	29
PRESETTING FOR WIDE TELEVISION SOFTWARE	30
PRESETTING A SUBTITLE LANGUAGE	31
PRESETTING AN AUDIO LANGUAGE	31
PRESETTING OF VIEWING LIMITATION (PARENTAL LOCK).....	32
TO CHANGE VARIOUS PRESETTING	33

REFERENCE

TECHNICAL TERMS.....	36
BEFORE ASSUMING IT IS A BREAKDOWN	38
SPECIFICATION	39

FOR USA


The POWER/STANDBY button turns the player on and off.
If the unit is to be left unattended for a long period, it is recommended that the unit completely switched off and unplugged.
Illustrated below is the label on the back of your unit.





CAUTION

RISK OF ELECTRIC SHOCK

DO NOT OPEN



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



Explanation of Graphical Symbols

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

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

CLASS 1

LASER PRODUCT

CAUTION

This product contains a laser diode of higher class than 1.
To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.
Refer all servicing to qualified personnel.

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

Warning: 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 that may cause undesired operation.

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.

Caution to the user: Change or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

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

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

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

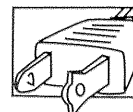
IMPORTANT SAFEGUARDS

In addition to the careful attention devoted to quality standards in the manufacture of your DVD player safety is a major factor in the design of every instrument. But safety is your responsibility too.

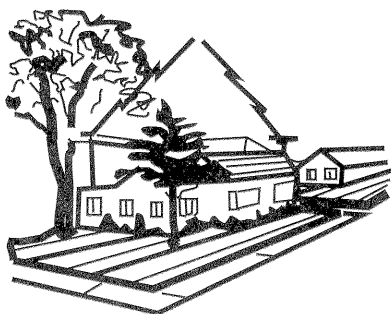
This page lists important information that will help to assure your enjoyment and proper use of a DVD player and accessory equipment. Please read it carefully before operating your DVD player and keep it in a handy place for future reference.

INSTALLATION

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a damp cloth.
- 7) Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or groundig-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with a cart, stand, tripod, bracket, or table spccified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lighting storms or when unused for long periods of time.

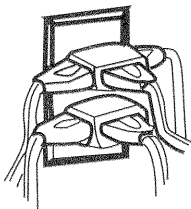


- 14) Refer all servicing to qualified scrvic personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

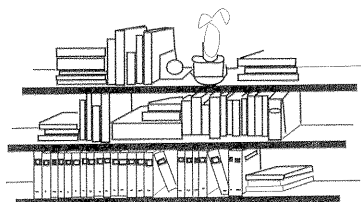
CAUTION:

1 Power Sources - This DVD player 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 DVD player dealer or local power company. For DVD players intended to operate from battery power, or other sources, refer to the operating instructions.

2 Overloading - Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock. Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords, damaged or cracked wire insulation and broken plugs. They may result in a shock or fire hazard. Periodically examine the cord and have it replaced by your service technician if appearance indicates damage or deteriorated insulation.



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



4 Attachments - Do not use attachments unless recommended by the DVD player manufacturer as they may cause hazards.

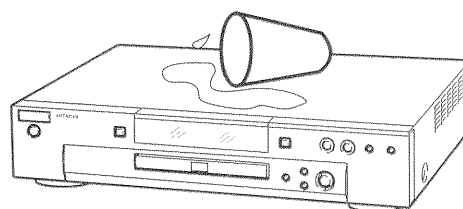
Caution: Maintain electrical safety. Powerline operated equipment or accessories connected to this unit should bear the UL listing mark or CSA certification mark on the accessory itself and should not have been modified so as to defeat the safety features. This will help avoid any potential hazard from electric shock or fire. If in doubt, contact qualified service personnel.

5 Water and Moisture - Do not use this DVD player 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.

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

6A An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

7 Object and Liquid Entry - Never push objects of any kind into this DVD player through opening 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 DVD player.



8 Safety Check - Upon completion of any service or repairs to this DVD player, ask the service technician to perform safety checks recommended by the manufacturer to determine that the DVD player is in safe operating condition.

Meaning of symbols

Various symbols are provided to help use the player correctly and prevent danger or damage to yourself or others.



WARNING

If you misuse the player by overlooking this symbol, somebody may die or be seriously injured.



CAUTION


If you misuse the player by overlooking this symbol, somebody may be injured or something may be damaged.

<Examples of symbols>




The symbol warns you (requests you to be cautious). (This example means "Careful, Electric shock.")



The symbol  means DO NOT. (This example means "DO NOT dismount".)



The symbol  means DO. (This example means "It is necessary to pull out the power plug from the socket.")



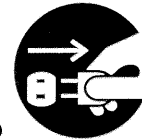
WARNING

AVOID WATER.

- Do not use the player around water.
- When the player is installed beside a window or outdoors, keep it dry, otherwise there is a risk of a fire or an electric shock.
- When water gets inside the player, stop using it, pull out the plug, and contact your dealer. If you continue to use it, there is a risk of a fire or an electric shock.



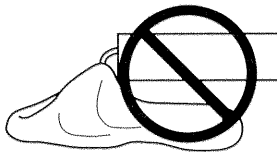
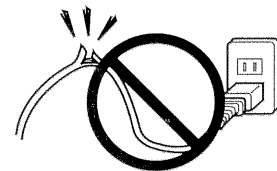
Do not use around water.



Pull the power plug from the socket completely.

DO NOT DAMAGE THE ELECTRIC CORD.

- Do not damage, break, or alter the electric cord. When you put a heavy weight on the cord, heat it, or pull on it, it may be damaged and cause a fire or an electric shock.
- Do not cover the cord under a carpet or similar covering, because you may not be aware of it and place a heavy object on it and damage it. It may cause a fire or an electric shock.



DO NOT WORK ON THE CORD.

- Do not work on, bend, or pull on the cord excessively; it may be damaged and cause a fire or an electric shock.
- When wires in the cord become visible or broken, request your dealer for a replacement cord. Its continuous use may cause a fire or an electric shock.

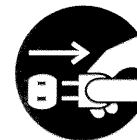


CHANGE A DAMAGED CORD TO A NEW ONE.

⚠ WARNING

DO NOT PUT FOREIGN OBJECTS IN THE PLAYER.

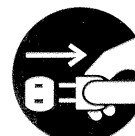
- When a foreign object gets into the player, pull out the plug and consult your dealer. If you continue using it, it may cause a fire or an electric shock.



Pull the power plug from the socket completely.

DO NOT USE IN CASE OF ABNORMALITIES.

- When used despite abnormal phenomenon such as smoke or smell, a fire or an electric shock may occur. In such cases, pull out the plug and ensure that no more smoke is emitted. Then, give it to your dealer for repair. Repairing it by yourself is dangerous, please do not do so.



Pull the power plug from the socket completely.

DO NOT TOUCH THE PLUG IF IT SPARKS.

- If the plug begins to spark, do not touch the plug to avoid an electric shock.



Do not touch.

PAY ATTENTION TO ANTI-DUST CAP.

- When you take off the anti-dust cap from the optical digital output terminal, pay attention so that your child will not swallow it.
- Keep the cap out of reach of children. Consult a doctor immediately if a child swallows it.



DO NOT INSTALL IN DIRECT SUNLIGHT OR NEAR HEATING APPLIANCES.

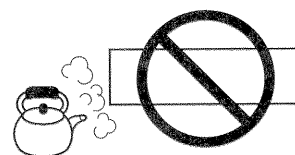
- The housing may deform or affect inner components and cause a breakdown.




⚠ CAUTION

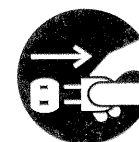
DO NOT INSTALL IN A PLACE EXPOSED TO GREASE FUMES OR VAPORS. DO NOT INSTALL IN A PLACE EXPOSED TO MOISTURE OR DUST.

- It may cause a fire or an electric shock.
- Do not install the player near a kitchen sink or a humidifier. It may cause a fire or an electric shock.



BE CAREFUL WHEN MOVING IT.

- Before moving it, you must take out the disc, push  OPEN/CLOSE button, close the disc table, and pull out the plug. If the cord is damaged, it may cause a fire or an electric shock.

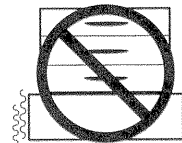


Pull the power plug from the socket completely.

WARNING

DO NOT PUT A HEAVY WEIGHT ON THE PLAYER.

- Do not place a heavy object or a TV set on the player. It may lose stability and fall causing injury.



KEEP CORD AWAY FROM HEATING APPLIANCES.

- The sheathing of the cord may melt and cause a fire or an electric shock.



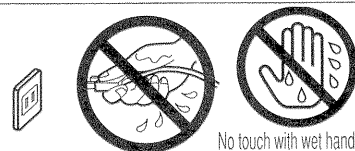
HOLD THE PLUG WHEN PULLING IT OUT OF THE SOCKET.

- Do not pull by holding the cord. It may be damaged and cause a fire or an electric shock.



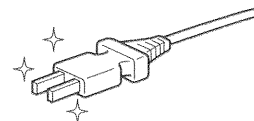
DO NOT USE WET HANDS TO PULL OUT THE PLUG.

- It may cause an electric shock.



KEEP PLUG CLEAN FROM DUST.

- The use of a dust covered plug may cause heating or a fire. Keep the plug and its prongs clean at all times.



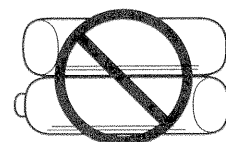
DO NOT STEP ON THE PLAYER.

- Be careful, especially in a family with children not to step on the player. A child may fall on it and be injured.



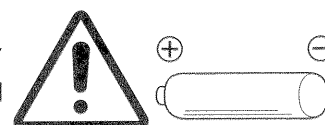
DO NOT USE BATTERIES OTHER THAN THOSE SPECIFIED.

- Do not use batteries other than those specified. Do not mix new and old batteries, or batteries of different types.



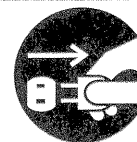
INSTALL BATTERIES AS INSTRUCTED.

- Pay attention to the polarities (positive \oplus and negative \ominus). Incorrect polarity may cause damage or leakage of the battery and cause injuries or pollution.



IF THE PLAYER DOES NOT WORK AFTER PLUGGING IT IN.

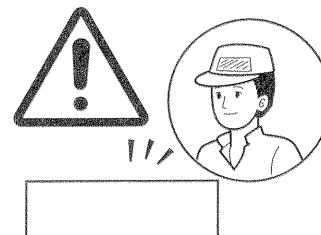
- Pull out the plug for safety.



Pull the power plug from the socket completely.

INTERIOR CLEANING.

- Consult your dealer for interior cleaning, necessary once every 5 years. A dusty interior may cause a fire or a breakdown. The cleaning is best performed before the rainy season when high humidity has not yet arrived. Consult your dealer for cleaning costs.

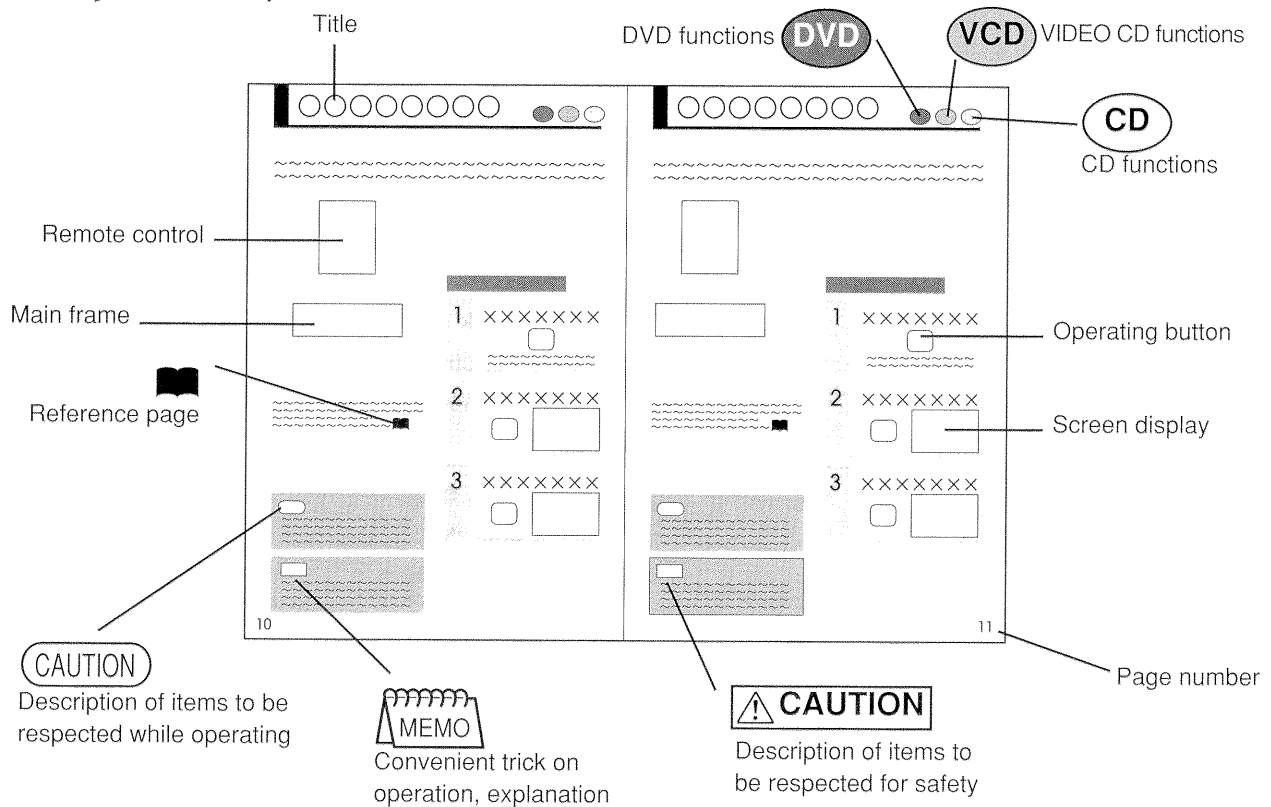


ABOUT CLEANING.	<ul style="list-style-type: none"> ● To use a chemical duster, follow instructions for use. ● Use a soft cloth to wipe away dirt from the housing or the panel. If very dirty, use a cloth moistened with a neutral detergent to wipe off, then use a dry cloth to dry it. ● Do not use benzene or thinner to wipe the housing to avoid alteration of its coating. ● Do not spray volatile substances such as insecticide on the housing. Avoid long contact of rubber or vinyl with the housing to protect from peeling of coating.
ABOUT FUNCTIONING OF THE PLAYER.	<ul style="list-style-type: none"> ● The player may not work because of improper operation. The limited warranty does not cover consequent losses (lost opportunity compensation, etc.). Please refer to the product warranty card for more information.
WHEN INSTALLED IN A CABINET WITH A GLASS DOOR.	<ul style="list-style-type: none"> ● Do not use OPEN/CLOSE button of the remote control to open the disc table if the glass door is closed. Hindering the movement of the disc table with a strong force will cause a breakdown.
DO NOT MOVE THE PLAYER WHEN PLAYING.	<ul style="list-style-type: none"> ● Because the disc is rotating very rapidly, it can be damaged if the player is lifted or moved.
AVOID HEAT.	<ul style="list-style-type: none"> ● Do not install the player on top of a heat producing device. When installing it in a cabinet, place the player below the amplifier, or other heat producing audio devices as far as possible (but in a dust free place).
ABOUT CONDENSATION.	<ul style="list-style-type: none"> ● In winter, if you move the player from a cold place to a warm room, or if you elevate the temperature of the cold room where the player is installed, condensation will form inside the player (on moving part or lens). With condensation, the player will not work normally. Depending on the condensation state, by switching power on the player for 1~2 hours to raise its temperature to that of the room, the condensation will evaporate and it will work. ● Condensation may also occur if it is exposed to cool air flow from an air conditioner. In such cases, please change the installation spot.
OTHER CAUTIONS.	<ul style="list-style-type: none"> ● If a radio set is used nearby the player, you may hear buzzing from the loud speaker. Please keep a sufficient distance between the two. ● When used in combination with a stereo system, keep a sufficient distance between the speakers and the monitor TV. ● Do not install the player on top of a TV or a color monitor. Also, the player must be kept away from electromagnetic sensitive devices such as cassette decks. ● When the player is on while you are watching regular TV, you may see stripes on the TV screen, depending on the TV signal. Turn off the power to the player in such cases. ● Sometimes it may be affected by exterior elements such as static electricity, and the player will not work correctly. In such cases, pull out the plug and plug it in again.

GUIDE FOR READING

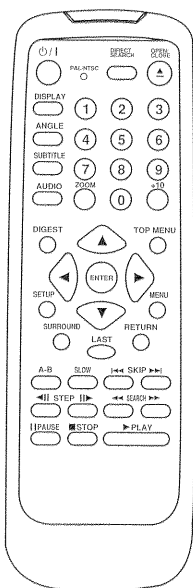
This operation instruction is in most part presented as follows. Please read it in detail and use the device correctly.

(Although the arrangement may be different for some pages, the explanations are basically the same.)

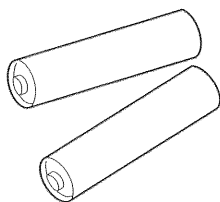


ACCESSORIES IDENTIFICATION

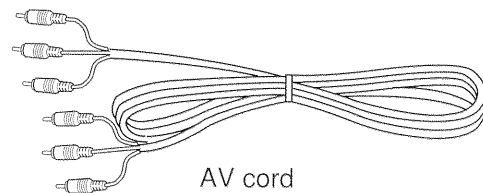
Please identify the accessories. If any accessory is missing, please contact the vendor.



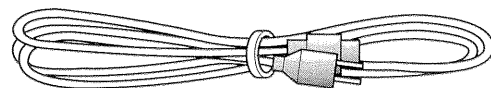
Remote control



Single type "AAA" batteries.....2



AV cord



Power cord

- **Compatible DVD, VCD, CD, etc. various disc.**
- **Speedy operation with double speed drive.**

CAUTION





Although this player can play DVD, VIDEO CD that conform to specifications, there are some discs that cannot operate as described in this manual.



DVD is a new medium, being a 12-cm disc that can hold approximately 133 minutes of high quality picture and sounds. DVD discs have wider capabilities than traditional discs: For instance, you can change the viewing angle, subtitle language and audio language.

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

ABOUT DISCS

PLAYABLE DISC TYPES AND MARKS	SIZE/PLAYABLE SIDES	PLAY TIME
	DVD	Digital Sound Digital Image (MPEG 2) About: 133min 4.7 GB 242min 8.5 GB
	12cm/ Single Side 1 Layer	266min 9.4 GB
	12cm/ Double Side 2 Layer	484min 17 GB
	DVD	Digital Sound Digital Image (MPEG 2) About: 41min 75min 82min 150min
 	VIDEO CD 12cm/Single Side	Digital Sound Digital Image (MPEG 1) 74min max.
	VIDEO CD SINGLE 8cm/Single Side	Digital Sound Digital Image (MPEG 1) 20min max.
	CD 12cm/Single Side	Digital Sound 74min max.
	CD SINGLE 8cm/Single Side	Digital Sound 20min max.

- The marks shown in the table are printed on the disc label or inlay.
- The player can play the below three types of discs without an adapter.
- To avoid breakdown, do not use 8cm adapter (for CD use).
- Do not use heart shaped or octagonal discs. They may cause device breakdown.
- DVD play times shown are based on a recording rate of 4.7 Mbps.

ABOUT VIDEO CD

The player corresponds to VIDEO CD furnished with PBC (Version 2.0). PBC means Playback Control. The following 2 kinds of play can be performed:

DISC TYPE	KINDS OF PLAY
VIDEO CD without PBC (Version 1.1)	The music and (animated) image playback can be done by operating in the same way as for a music CD.
VIDEO CD with PBC (Version 2.0)	In addition to non-PBC VIDEO CD plays, you can play interactive software or software having search function by using menus shown on the screen (Menu play). Some functions described in this manual may not work.

CAUTION

- The Region code of this player is shown on the rear plate.

■ Please use the discs with any of the following marks

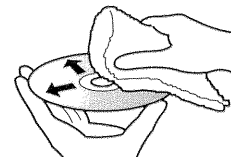


■ Disc storage

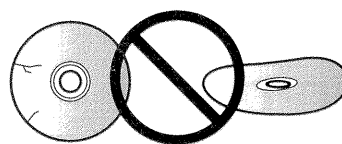
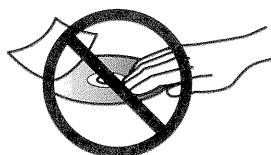
- Discs are made of plastic. Please protect them against deformation. Put them in a case and keep away from sunlight, high temperature and humidity. Please do not put them outdoors in direct sunlight, or in a car where the temperature may rise.
- Please read the precautions marked on the disc notice.

■ Disc cleaning

- The image or sound quality may be reduced if a disc is dusty or carries fingerprints.
- Please do not use volatile chemicals like benzene or thinner, disc spray, or electrical charge eliminator.
- If a disc is very dirty, please wipe it with a wet soft cloth, then wipe it with a dry cloth.
- Please do not use a damaged disc (cracked or deformed disc).
- Please do not glue on the label side paper or a seal, or damage the side. Please do not use a disc with extruding glue from under cellophane tape or rental label, or with parts of a label after incomplete peeling. If you use a disc like this, you may not be able to take it out later. And it may cause a breakdown.



Wipe it with a soft cloth from the center radially outward



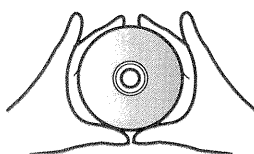
■ About lens cleaner

If a failure occurs due to dust, etc., please contact the vendor, and ask for a cleaning. Some marketed CD lens cleaning discs may damage the lens or be impossible to remove. Please be careful.

■ To hold a disc by hand

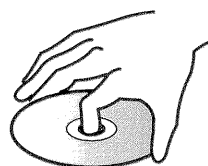
With two hands:

Hold it on the edge with fingers.



With one hand:

Hold it with the index in the center hole and other fingers at the edge.



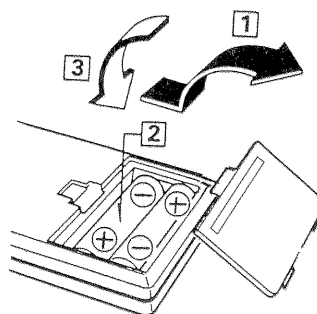
HOW TO INSTALL BATTERIES

1 Remove the lid of battery compartment.

Press the lid and push it in the direction of the arrow.

2 Insert batteries.

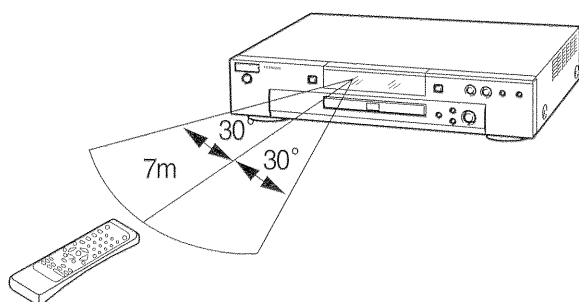
Insert the batteries supplied, respecting the polarity \oplus and \ominus .



3 Replace back the lid.

Push the lid in the arrow direction.

HOW TO HANDLE THE REMOTE CONTROL



CAUTION On use of remote control

- Please do not allow it to fall, or to receive a shock.
- To avoid a breakdown, please do not spray water on the device, or put it on a wet object.
- If you will not use the device for a long period, please take the batteries out.
- If the remote controllable range decreases, replace the batteries.
- When the signal receiving eye is exposed to direct sunlight, it may operate with difficulty. Please keep it away from direct light.

- Operate the remote control within the following area, in a straight line from the signal detecting eye of the player and an angle of 30°.



For use of batteries:

- Please do not use batteries other than specified. Moreover, please do not use new and old batteries together. Break or leakage of batteries may cause a fire, an injury, or pollution.
- When installing batteries in the device, please pay attention to polarity: Positive \oplus and Negative \ominus inscribed on the device. Wrong polarity may cause a fire, an injury, or pollution.

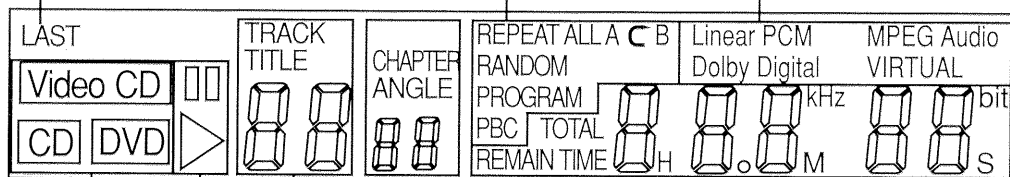
FRONT

<Display>

Lights if the stop position is in memory. **20**

Indicates the play status. **21**, **24** ~ **25**

Indicates the Audio Type being played. **37**



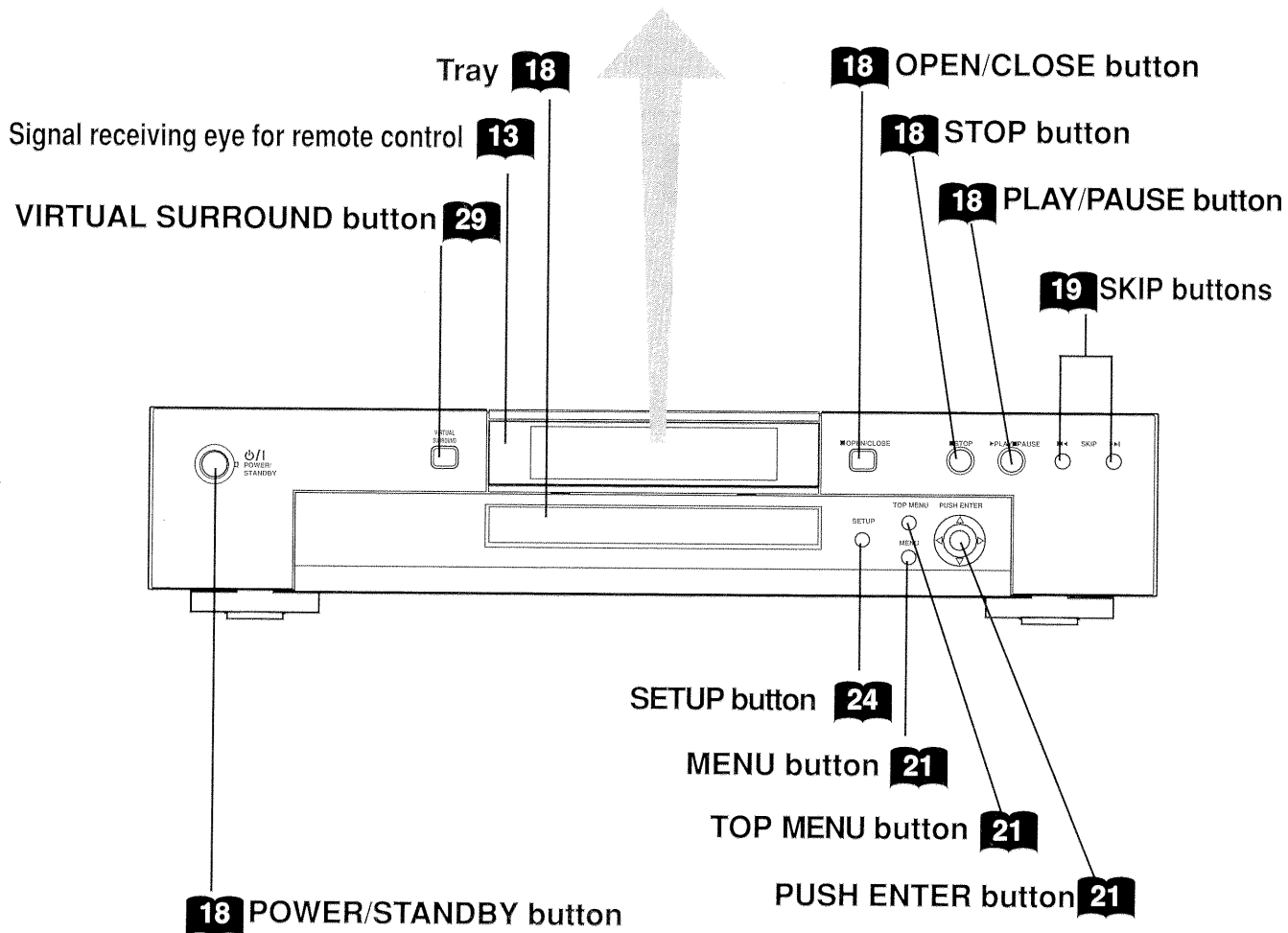
Indicates the elapsed time or remaining time of the disc. **23**, **28**

Indicates the Chapter number. **28**

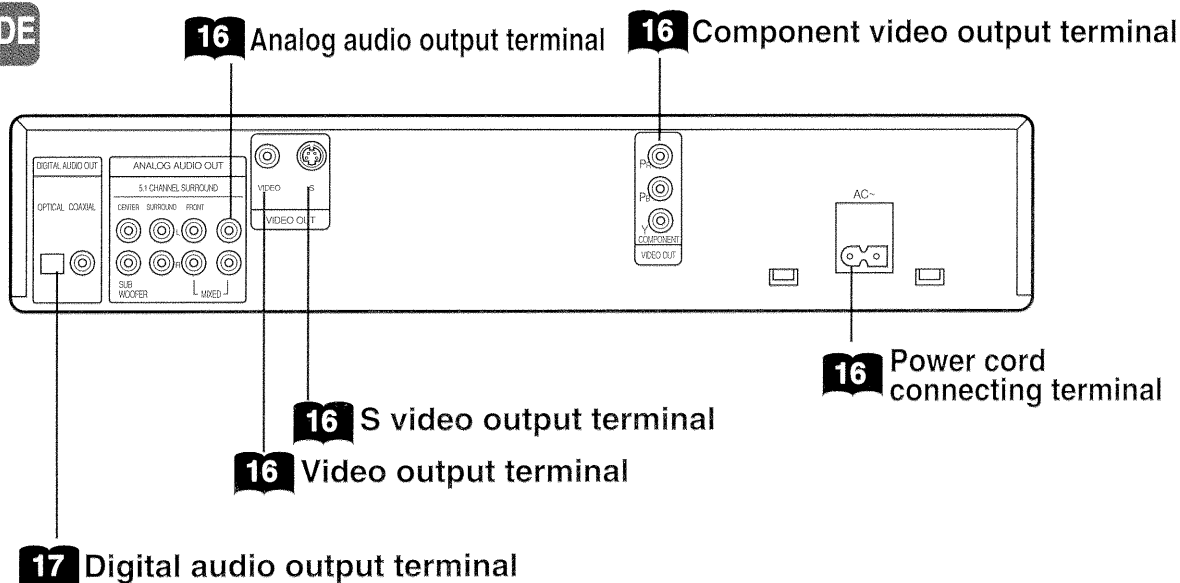
Indicates the Track or Title number being played. **23**, **28**

Indicates the operational mode. **18**

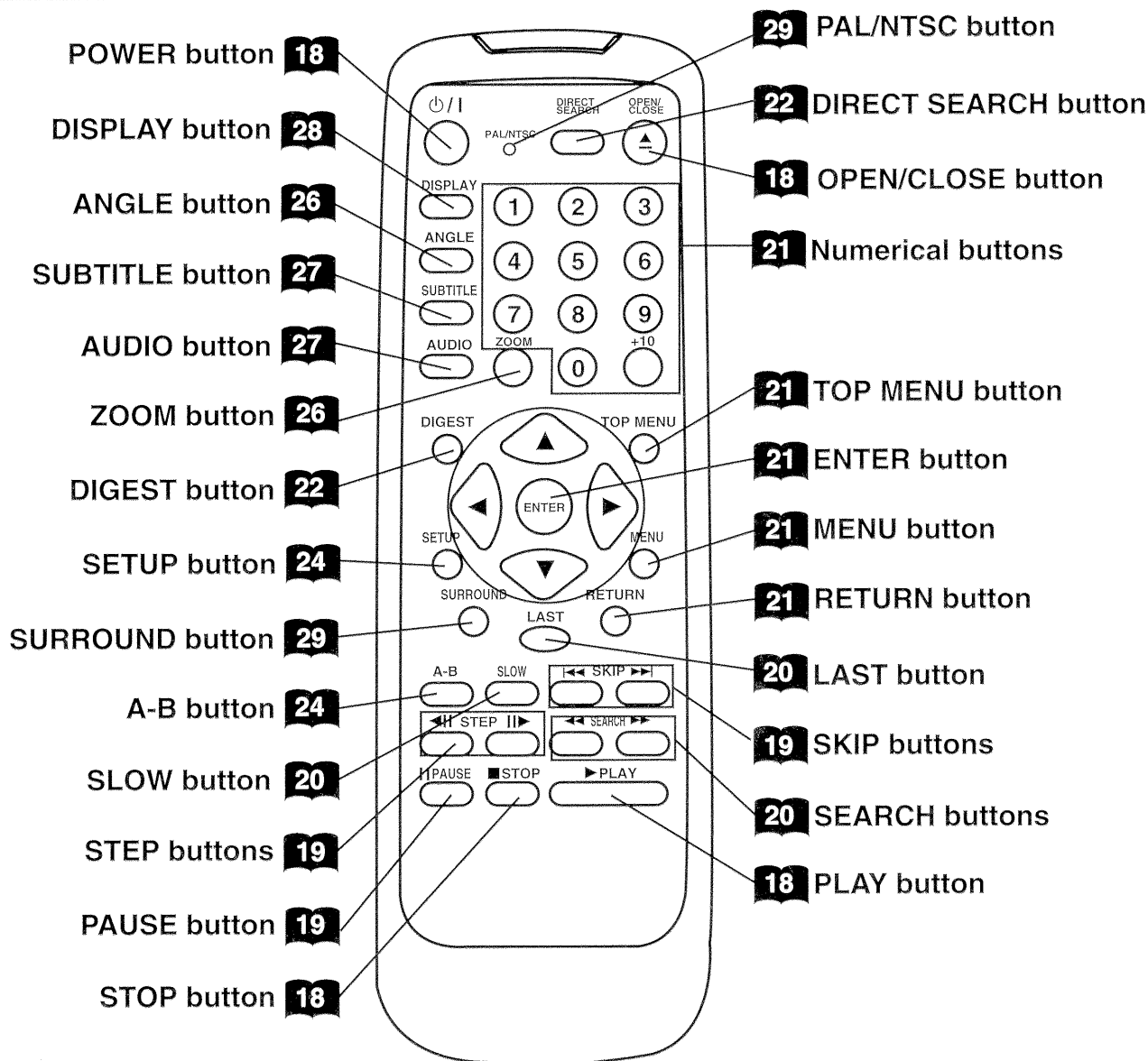
Indicates the disc type. **18**



REAR SIDE



REMOTE CONTROL UNIT

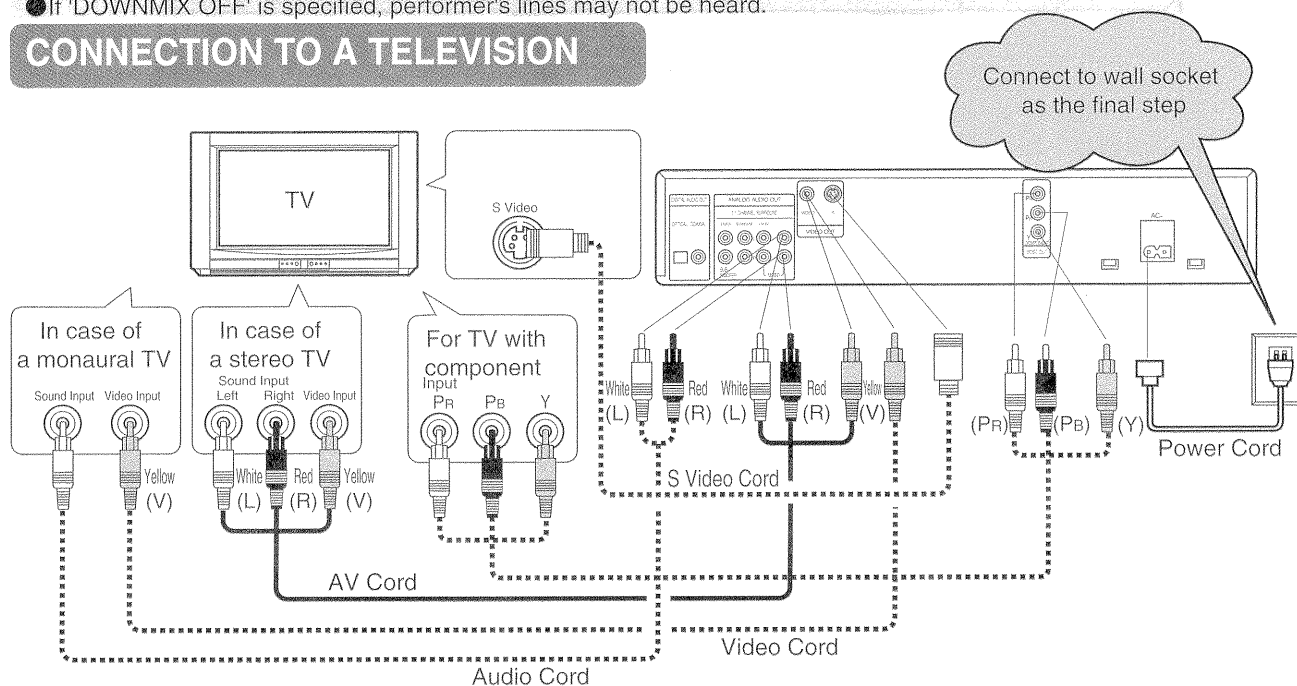


CONNECTION TO OTHER DEVICES

CAUTION

- In case of use in combination with other devices, please study the operation instruction of each of them.
- Before connection, please put power 'OFF' for all devices.
- When connecting the DV-P505U to an ordinary 2-channel stereo or TV, set SPK SETUP to 'DOWNMIX ON'. **35**
- If 'DOWNMIX OFF' is specified, performer's lines may not be heard.

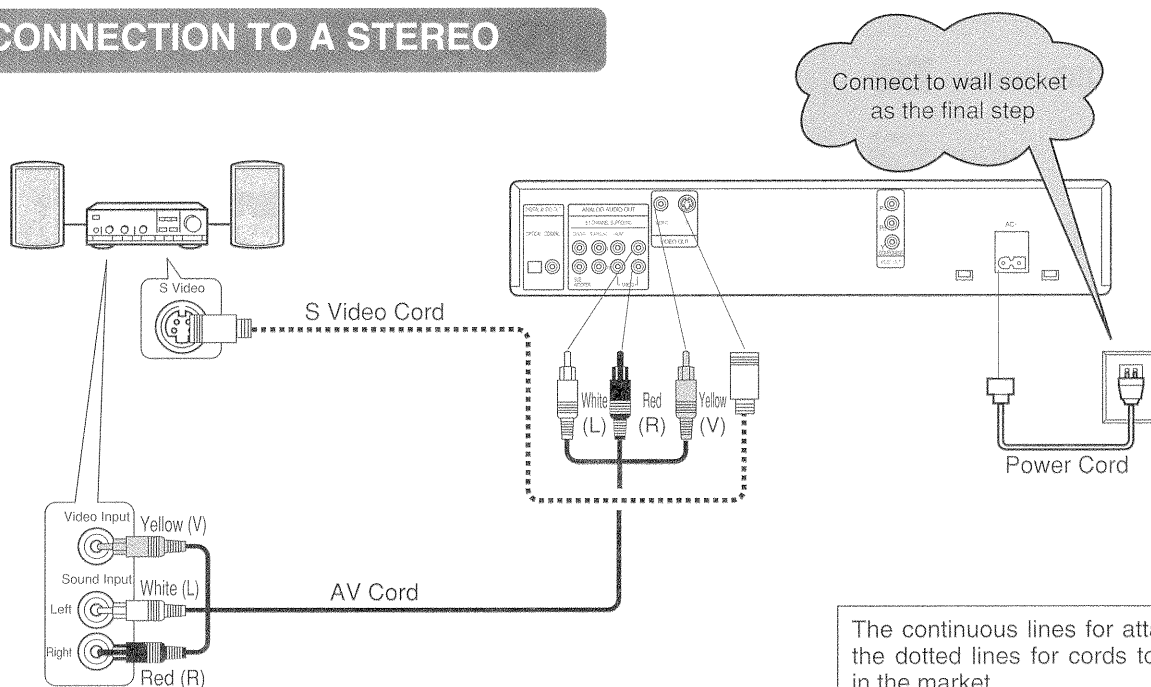
CONNECTION TO A TELEVISION



To connect with a monaural TV, use Audio/Video cord (HPU-141AV) etc. sold separately.

The continuous lines for attached cord; the dotted lines for cords to be bought in the market

CONNECTION TO A STEREO



The continuous lines for attached cord; the dotted lines for cords to be bought in the market

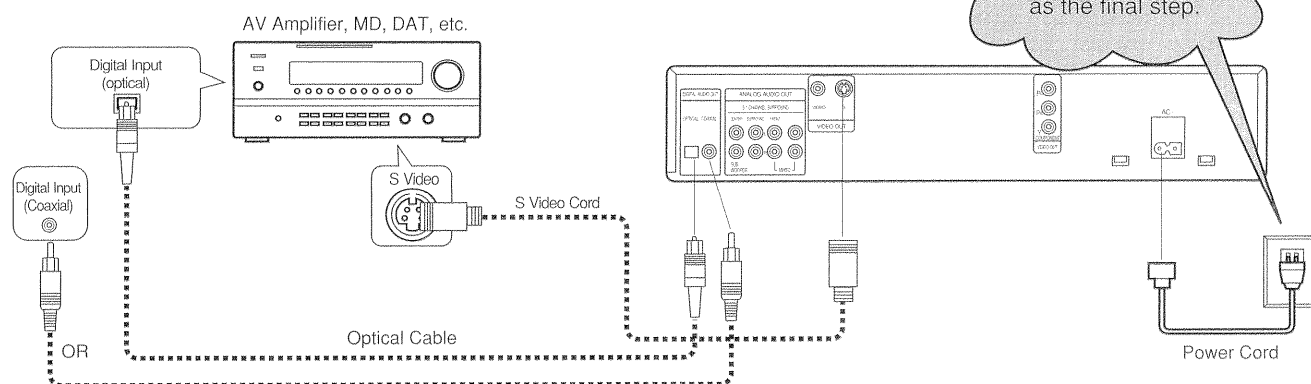
Connection to Dolby Pro Logic Decoder (Built-in amplifier)

Same connection method in case of a stereo corresponding Dolby Pro Logic. To enjoy Dolby Pro Logic surround, please preset according to the operation instructions of the stereo.



It is necessary to preset the DIGITAL OUTPUT to 'OFF' for the sound output from analog audio output terminal. **34**

CONNECTION TO A DEVICE EQUIPPED WITH DIGITAL TERMINAL



You can enjoy Dolby Digital surround by connecting the player to an amplifier equipped with Dolby Digital input terminal.

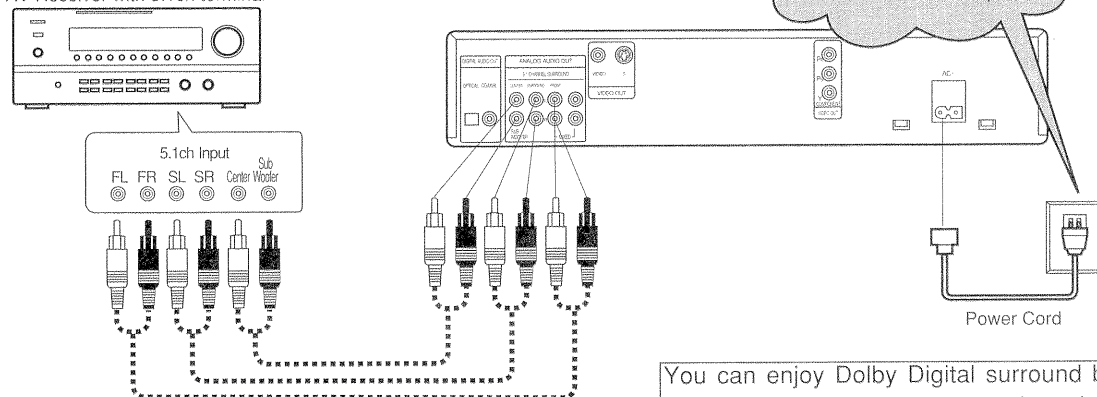
Dotted lines, indicate cords purchased separately.

CAUTION

- To record DVD sounds corresponding to Dolby Digital on MD or DAT by a digital connection, preset the digital sound output to LPCM. If the DVD has recorded Dolby Digital, it will record noise if DIGITAL OUTPUT is preset to STREAM. **34**
- If the digital input terminal of an amp does not correspond to Dolby Digital or DTS, then do not preset the DIGITAL OUTPUT to STREAM. Noise may be emitted that could damage the speakers. **34**
- If the preset DIGITAL OUTPUT is "LPCM" or "STREAM", analog output will not work. **35**
- The track number is sometimes not correct when recording a CD or DVD using digital connection: Use the MD or DAT to edit the track number.
- Since this player does not have a DTS built-in decoder, analog audio output terminal will not be available when DTS audio is selected. **34**

TO CONNECT TO AN AV RECEIVER WITH 5.1CH TERMINAL

AV Receiver with 5.1ch terminal



CAUTION

- FRONT L/R output terminal output "2ch" mixed audio when SPK SETUP is set to DOWNMIX "ON" **35**

You can enjoy Dolby Digital surround by connecting the player to an AV receiver equipped with 5.1ch input terminals.

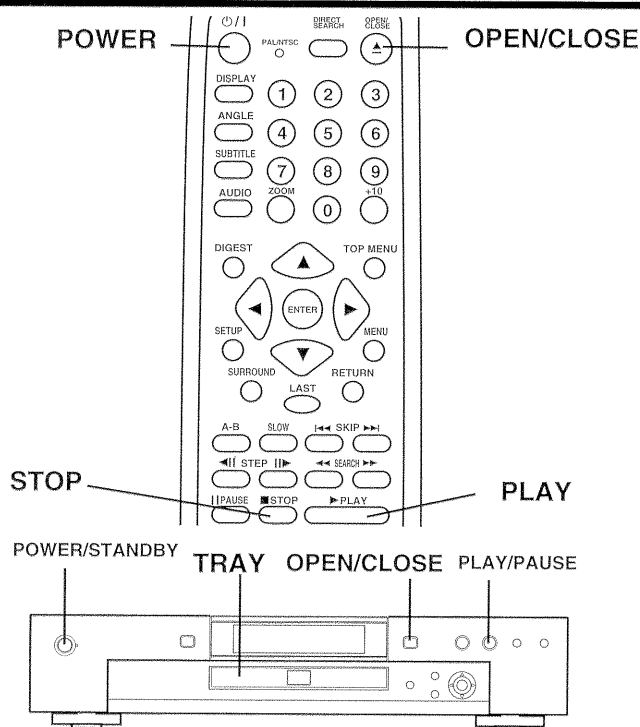
Please preset SPK SETUP to DOWNMIX "OFF".

If you do not connect a sub-woofer speaker, please preset SUBWOOFER "OFF" **35**

Manufactured under license from Dolby Laboratories.

"Dolby", "Pro Logic", "AC-3" and the double-D symbol are trademarks of Dolby Laboratories.

Confidential Unpublished Works. ©1992-1997 Dolby Laboratories, Inc. All rights reserved.



When the plug is connected to the wall socket the **STANDBY** indicator will light in red.

- Press the POWER button.**
 - Press the POWER/STANDBY button on the front panel.
 - The **STANDBY** indicator will change from red (STANDBY) to green light (ON).

- Press the OPEN/CLOSE button.**
 - The **TRAY** will come out.

- Place a disc.**
 - Place the disc along the guides with the label side up.

- Press the PLAY button.**
 - Please press the PLAY/PAUSE button on the front panel or Remote Controller.
 - When the disc type is identified, ► will appear in the display window. Playback will begin.
 - With some discs it will show a menu. Please refer to 21 22 in this case.



After insertion of a disc, there will be a period (about 15 seconds) of learning to identify the disc type and to control adequately disc by disc. When the learning is completed, only one (VIDEO CD, CD, or DVD) will remain 'ON'.

TO TERMINATE

To resume playback: 20

- Press the PLAY button while the TV displays 'PRESS PLAY TO CONTINUE'.
- Press the LAST button when 'PRESS PLAY TO CONTINUE' is not displayed on the TV.

To make a pause during a playback

Press PLAY/PAUSE ►/II button (PAUSE II button on Remote control). The picture will stay still and there will be no sound. To resume the playback, please press the PLAY/PAUSE ►/II button (PLAY ► or PAUSE II button on Remote control) again.

- It will become a still picture with a DVD or a VIDEO CD.



- When Stop lasts about 30 minutes, power will go 'OFF' and unit will go into **STANDBY**.

- Press the STOP button.**
 - The playback will be terminate.
 - TV will display "PRESS PLAY TO CONTINUE".
 - Press the STOP button the second time: the player will quit the "continue" mode (playback from the position viewed last) and enter the "stop" mode.

In case of VCD or CD

- Press the STOP button once to stop playback.

- Press the OPEN/CLOSE button.**
 - The tray will come out.

- Take out the disc.**

- Press the POWER button.**
 - Or press POWER/STANDBY button on the front panel.
 - The tray will close, the power will be off and the **STANDBY** indicator will change from green (ON) to red (STANDBY).

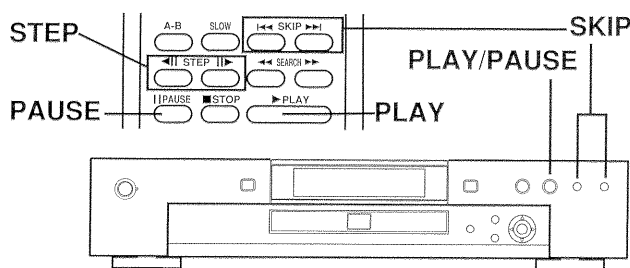
TO SKIP A CHAPTER /TRACK

DVD

VCD

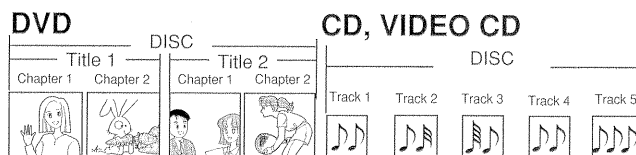
CD

During play, it is possible to skip to next Chapter/Track or reverse to preceding Chapter/Track.



About Title, Chapter, and Track

In a DVD, the contents are divided in Titles, and the Titles are divided in Chapters. The contents in a VIDEO CD or CD are divided in Tracks.



CAUTION

- These operations cannot be done across Titles on DVD.
- In the case of a VIDEO CD, you can skip forward or backward by use of SKIP button when PBC (Playback control) is off. If PBC is on, then the device will work with PBC function.

SKIP TO NEXT CHAPTER /TRACK

Press the SKIP ►► button.

- When the button is pressed, the play skips to the next Chapter/Track.



REVERSE TO PRECEDING CHAPTER/TRACK

Press the SKIP ◀◀ button.

- Press 1 time to come back to the beginning of the Chapter /Track in play.



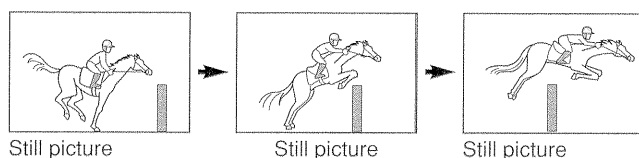
BASIC OPERATION

TO PAUSE PLAYBACK OR ADVANCE FRAME

DVD

VCD

It is possible to pause during play to look at a still picture or make a display frame by frame.



Still picture

Still picture

Still picture



- No sound can be heard with still picture or playback frame by frame.
- Some discs cannot PAUSE. In such case the mark ⏏ will be displayed.
- If the screen saver 33 is preset and still picture display lasts, it will turn to screen saver display. Press any button to come back to still picture.
- If the still picture shakes on a DVD disc, please select 'FIELD' on presetting PAUSE PICTURE. 35

CAUTION

- The interval of frame forwarding or reversing may be inconsistent.

TO PAUSE PLAYBACK

Press the PAUSE || button.

- "||" will appear in display window and it becomes a still picture.



- Press the PLAY/PAUSE ►/|| button on the front panel.
- It will also become a still picture by pressing the ◀|| STEP ||► button.

PLAYBACK FRAME BY FRAME

Press the ◀|| STEP ||► button.

- The picture advances 1 frame each time ||► button is pressed.
- Picture reverses by one frame each time the ◀|| STEP button is pressed.



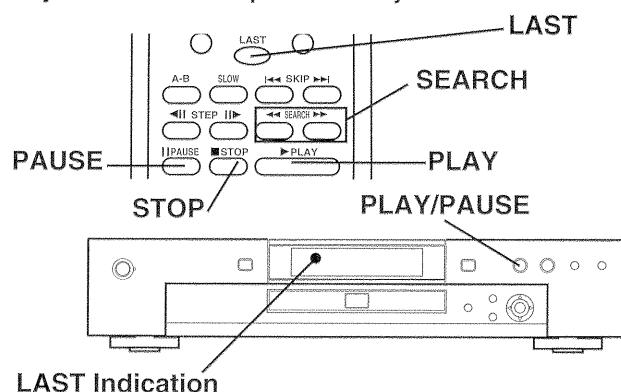
TO BACK TO NORMAL PLAY

Press the PLAY ► button.

- Press PLAY/PAUSE ►/|| button on the front panel.
- Or PAUSE || button on the remote control.



Playback at various speeds is easy.



OPERATE WITH REMOTE CONTROL

During still picture or normal

play, press **SEARCH** button.

- The play speed will change each time the button is pressed.

DVD	100x -10x -5x -2x	PLAY	-2x -5x -10x -100x
	Reverse play		Fast play
VIDEO CD	10x -5x -2x	PLAY	-2x -5x -10x
CD	Reverse play		Fast play

SLOW



- During still picture or normal play, press the SLOW button.

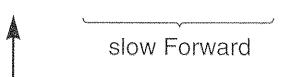
DVD

PLAY-SF1/2- SF1/4- SF1/8 - SR1/2- SR1/4- SR1/8



VIDEO CD

PLAY- SF1/2- SF1/4- SF1/8

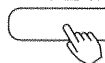


TO RETURN TO NORMAL PLAY

Press the **PLAY** button.

- To operate from the front panel, press the **PLAY/PAUSE** button.

PLAY



- The fast (more than 2x) play of DVD or VIDEO CD will result in skipped pictures.
- The speeds other than that for normal play are only for reference.

TO RESUME VIEWING (LAST PLAYBACK)

The viewing can be resumed to the last viewed Playback Point.

"The player can memory the location where the last playback have been stopped."



- When you put on the tray a disc of which stopped location is memorized and press LAST button, the LAST PLAYBACK will operate automatically.
- When the **PLAY** button (or **PLAY/PAUSE** button on front panel) is pressed to play a disc memorized with a stop location, the play will begin at the beginning.
- This last playback function can memorize the location viewed last of only one disc.
- For some discs the LAST PLAYBACK may not work correctly.
- In the case of a DVD without time data, it will memorize the stopped Chapter number. Then, if LAST PLAYBACK is operated the play will begin at the beginning of that Chapter.
- Once you press OPEN/CLOSE button, the LAST function will be canceled.

TO RESUME PLAY AT THE MEMORIZED POINT

When a disc with stop memory is set in, LAST will be displayed in the indication window.

Press the **LAST** button when 'LAST' is indicated and the player is stopped.

- The play will resume at the point where the play was stopped last.
- LAST button works only if the play is stopped and LAST indicator is lit.

LAST



TO MEMORIZE

Press the **STOP** button.

STOP

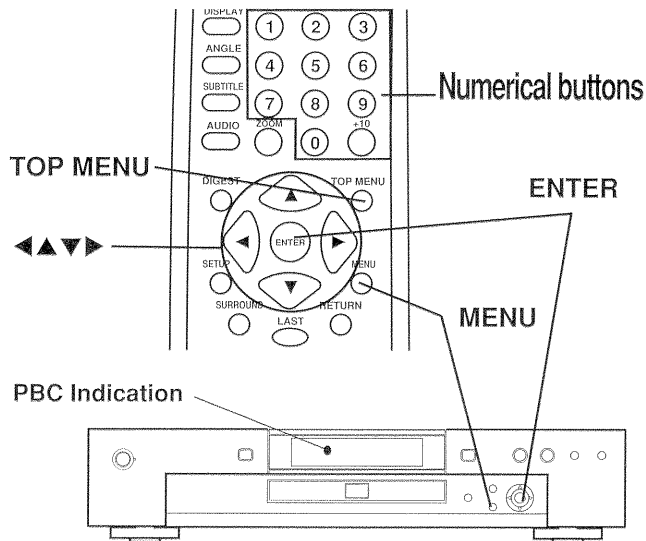


- It memorizes the stop location automatically.
- It will not memorize the stop location while LAST indication is blinking. It will conserve the former memory.
- The memory remains even after the disc is taken out.

The function of automatic play resume : If automatic play resume is preset when power is turned 'OFF' while a disc remains inside, the play will resume automatically from where it was stopped last time. **33**

A menu is recorded for some DVDs and VIDEO CDs:

Select the item you want to play.



3 Press the ENTER button.

- Play the disc, following the Menu.



IN CASE OF VIDEO CD WITH PBC

1 To play VIDEO CD with PBC.

- The MENU will be displayed.

2 Select an item with the Numerical buttons.

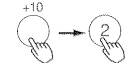
- When a Numerical button is pressed, an item is determined.

item 1
item 2
item 3

Ex. 1. To input the item No. 3



Ex. 2 To input the item No. 12



IN CASE OF DVD

1 Press the MENU button.

- The Menu will be displayed.
- Menus are different according to discs.



2 Select an item using the ◀▶▶▶ buttons.

- Some DVDs allow choice by use of Numerical buttons.

item 1
item 2
item 3



- With some DVDs, you may not be able to recall the Menu screen by pressing the MENU button: In such cases, press the TOP MENU button.
- Some DVDs do not have any Menu or Top Menu.
- When playing a VCD 1.1 or CD, the Menu screen will not appear.
- If you play a VCD by displaying the Menu screen, the functions other than those following the Menu will not work.
- In disc version 2.0, the MENU button works as a conversion switch between PBC ON and PBC OFF modes.

TO PLAY USING TOP MENU SCREEN ON DISC

Some DVDs record a few Titles and are furnished with a TOP MENU. In such cases, it is convenient to playback with TOP MENU.

1 Press the TOP MENU button.

- The TOP MENU will be displayed.
- The TOP MENU differs according to discs.



- Some discs do not work with this function.
- For some discs an identical picture will be displayed whether you press MENU button or TOP MENU button.

2 Select an item using the ◀▶▶▶ button.

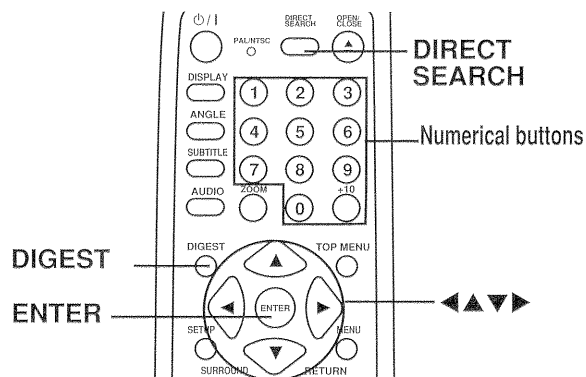
- Some DVD discs allow for choice by Numerical buttons.

item 1
item 2
item 3

3 Press the ENTER button.

- The item is determined.
- Thereafter the operation will be in accordance with the Menu.





By DIGEST you can view the first picture of each Track (VIDEO CD only).



- If you press the DIGEST button again, this function will end and it will be in a stop state.
- If you operate the function of DIGEST on a VIDEO CD, PBC will be automatically ended. **21**

1

Press the DIGEST button.

DIGEST



- The DIGEST Menu will be displayed.

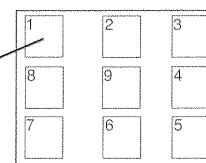
2

Select an item with number buttons.

- 1. INTRO : To display a disc introduction picture.
- 2. DISC : To display part of disc contents.
- 3. TRACK : To display part of track contents.
- 4. EXIT : To exit the DIGEST menu.
- Each time ►► is pressed, the next page will appear. (It may not appear for some introduction, disc or tracks.)

VCD

Press Numerical button



3

Press the Numerical button.

- Press 1~9 Numerical button: Play will be begin.

DIRECT SEARCH(TITLE/CHAPTER)

DVD

1

Press the DIRECT SEARCH button.

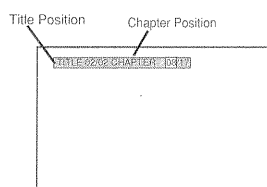
- The mode indicator picture will be displayed.



2

Preset Title/Chapter with the Numerical buttons.

- The letters of Chapter NO. position will turn yellow.

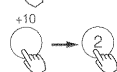


- The denominator in the Title No. or Chapter No. is the total number of recorded respectively.

Ex. 1. To input the Title No. 3



Ex. 2 To input the Title No. 12

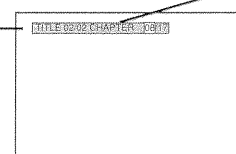


- Press the ◀► button to move the cursor to TITLE.

- Moreover, in case of DVD we preset a Chapter by selecting the position of the Chapter with the DIRECT SEARCH button, then with a Numerical button.

Title Position

Chapter Position



The denominator of the Chapter No. is the total number of the Chapters contained in the designated Title.

3

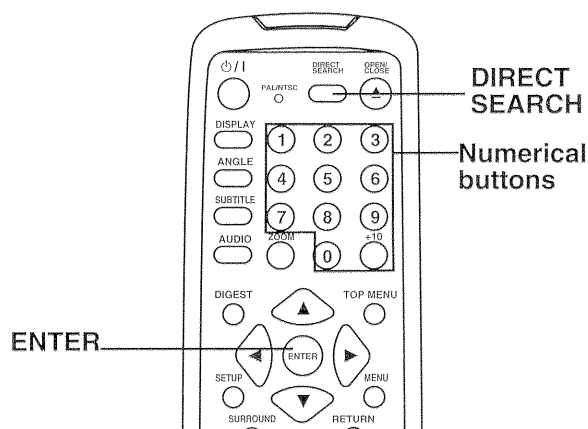
Press the ENTER button.



- The play will begin at the designated Title/Chapter.
- The play will begin also by pressing PLAY ► button.



- For a DVD if you designate a Chapter without Title, it will mean the Chapter in the Title under play now. If you designate only a Title, then it will search the beginning of the Title.



- 1 Press the **DIRECT SEARCH** button.
 - The mode indicator picture will be displayed.
 - With DVD discs, press the DIRECT SEARCH button twice.

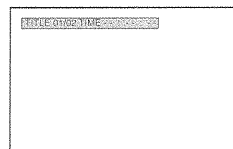


- The time is counted from the beginning of the designated Title or Track.

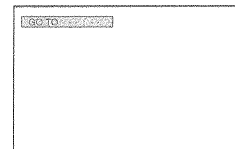
- 2 Select the time indication with the **DIRECT SEARCH** button.

- Once selected, the time indication will be **----**.

In case of DVD



In case of VIDEO CD or CD



- Search time preset values:
DVD hour: minute: second
VCD minute: second
CD minute: second

- 3 Preset the time with the Numerical buttons.

Ex. To set 1:23:45 0 → 1 → 2 → 3 → 4 → 5

Following this sequence, the display will appear as follows: 01:____

01:23:___

:

01:23:45

- With VCD or CD, play will begin.

- 4 Press the **ENTER** button.

- The play will begin at the picture corresponding to the time of the designated Title/Track.
- It will also play if PLAY ► button is pressed.



DIRECT SEARCH IN CD

CD

You can operate a CD by merely looking at the display window instead of looking at the TV screen.



- You can play the desired Track by pressing SKIP ►►|◄◄ button then select the wanted Track No. and press PLAY ► button.

- 1 Select the Track number with the Numerical buttons.

- To key a number greater than 10, you must key the second digit within 2 sec.

Ex. 1 To select the Track 3



Ex. 2 To select the Track 10

- The designated Track will begin playing.

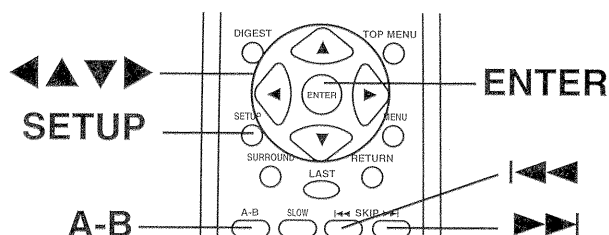


TO PLAYBACK REPEATEDLY (REPEAT PLAY)

DVD

VCD

CD



TO MAKE REPEATED PLAY OF A DESIGNATED SECTION

Press the A-B button at the beginning and the end of the section wanted to be played repeatedly.

A-B

TO STOP REPEAT

- Selection will be cancelled if the A-B button is pressed again.

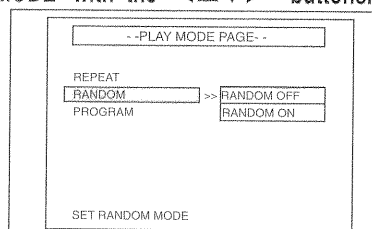
TO REPEATEDLY PLAY A DISC, TRACK (Only VCD, CD)

1 Press the **SETUP** button.

SETUP

- The SETUP Menu will be displayed.

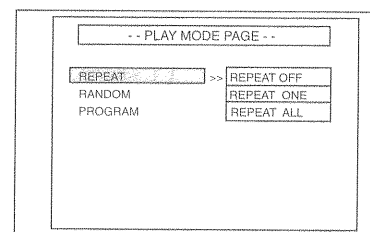
2 Select 'PLAY MODE' with the ◀▶ buttons.



It is possible to repeatedly play the Disc or Track during playback. It is also possible to repeatedly play a designated section.

3 Select 'REPEAT' with the ◀▶ buttons.

4 Select the item you want to repeat with the ◀▶ buttons, then press the ENTER button.



- Select 'REPEAT ONE' : The player will play track once again.

- Select 'REPEAT ALL' : The player will play disc until you press the STOP button or select 'REPEAT OFF'.

CAUTION

- For some discs the repeated play is not possible.
- For VIDEO CD, if it is played by displaying the Menu (PBC playback), then repeat function will not work.

PLAYBACK IN A RANDOM SEQUENCE (RANDOM PLAYBACK)

VCD

CD

This player will play the Tracks (pieces of music) of a disc in a different sequence. It will stop when all are played once.

TO DO A RANDOM PLAYBACK

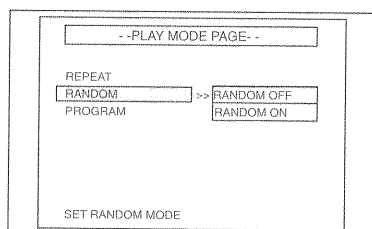
1 Press the **SETUP** button.

SETUP

- The SETUP Menu will be displayed.

2 Select 'RANDOM' with the ◀▶ buttons.

- Select 'RANDOM ON' and press the ENTER button.



3 Press the **ENTER** button.



4 Press the **SETUP** button or use the cursor to select EXIT SETUP.

5 Press the **PLAY** button.

- RANDOM playback will begin.

TO STOP A RANDOM PLAYBACK

1 Press the **SETUP** button.

SETUP

2 Select 'RANDOM' with the ◀▶ buttons.

- Select 'RANDOM OFF' and press the ENTER button.

During a RANDOM playback.

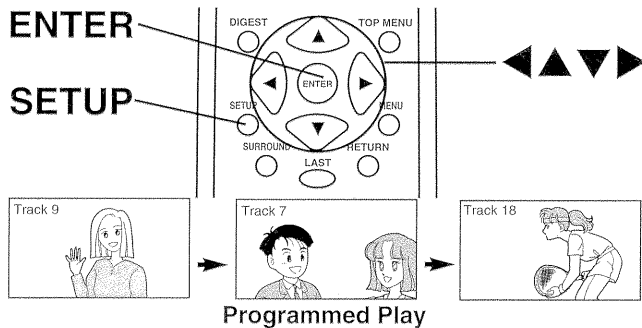
- If the ▶▶ button is pressed, Track selected by the player will be played.
- If the ◀◀ button is pressed, it will go back to the Track played last time.



- Some discs do not allow for RANDOM playback.
- A maximum of 99 Tracks can be played.
- For a VIDEO CD, when it is played with the menu displayed (PBC playback) and a random playback is commanded, the PBC will be cancelled.

21

You can make it play in any sequence you like. The items that are possible to program are different according to the type of disc. (Tracks for a CD or a VIDEO CD)



Programmed Play

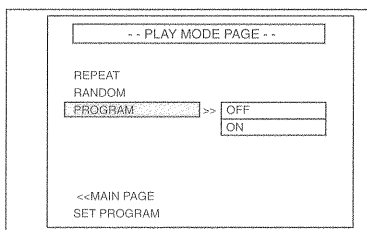
PROGRAMMING

- 1 Press the **SETUP** button.
 - The SETUP Menu will be displayed.
 - Select 'PLAY MODE' and then enter.

SETUP



- 2 Select 'PROGRAM' with the ◀▶ buttons, select to 'ON' then press the ENTER button.

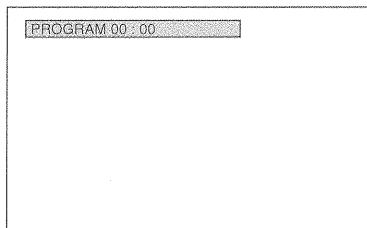


- 3 Press the **SETUP** button, the **PROGRAM** setting line will show on.

SETUP



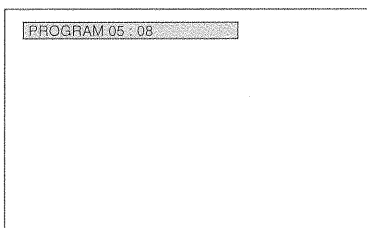
- Key in Track Number that you want to program for play using the Numeric buttons.



- With completion of this operation, the selected Tracks will be registered in the program list.

- 4 After setting your program, press the play button.

▶ PLAY



- Playback will begin.

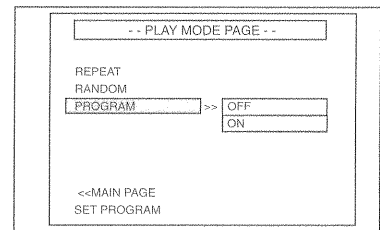


- Menus differ according to the type of disc: VIDEO CD or CD.
- The maximum number of steps for a program is 99.
- When the program is finished, it will stop.
- Some discs will not work as programmed.

TO CANCEL ALL THE PROGRAMS

- 1 Press the **SETUP** button.
 - The SETUP Menu will be displayed.
 - Select 'PLAY MODE' and then enter.
- 2 Select 'PROGRAM' with the ◀▶ buttons.

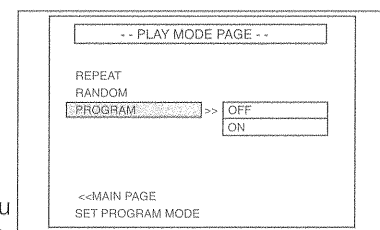
SETUP



- 3 Select 'OFF' with the ◀▶ buttons, then press the ENTER buttons.



- When the SETUP button is pressed, the SETUP Menu will terminate.
- The programmed play will be cancelled.



TO STOP A PROGRAMMED PLAYBACK

Press the **STOP** button.

STOP



- If you press the STOP button twice, the programmed playback will terminate and stop.

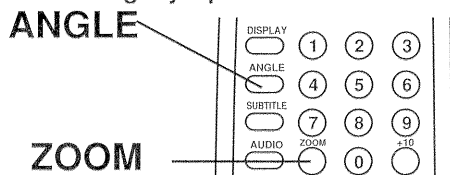
CAUTION

- The programmed play will not work when a VIDEO CD is played with the menu displayed (PBC playback).

TO PLAYBACK IN A PREARRANGED SEQUENCE
TO PLAYBACK REPEATEDLY
PLAYBACK IN A RANDOM SEQUENCE

APPLICATION

You can magnify a part of the screen X2 or X4.



Press the **ZOOM** button during playback.

ZOOM



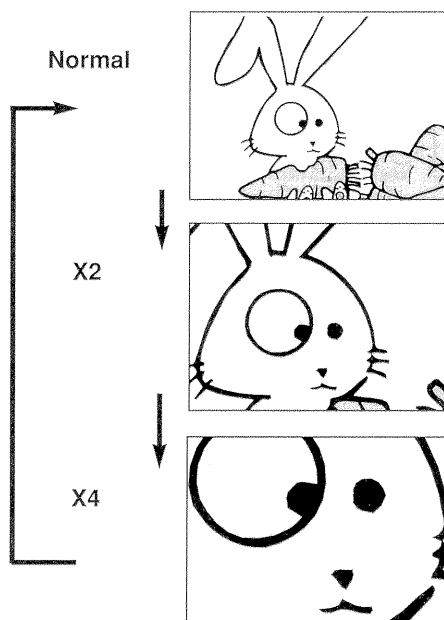
- Screen change will occur each time the button is pressed.
- The screen will display the zoom factor.

CAUTION

- When zoomed, usually unnoticeable parts of screen will be magnified and therefore the picture quality will appear to worsen. The picture quality will be worse in x4 than in x2.
- During zooming, the picture may sometimes jitter.



- You cannot zoom the still high quality picture of VIDEO CD.
- You cannot zoom the Subtitle and the Menu.

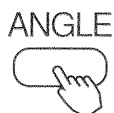


- By using the ◀▶ buttons during a zoomed play, you can change the position of the part to be zoomed.

TO SELECT VIEW ANGLE

A choice of sight angles is possible with a DVD that records objects shots from several directions (Angle).

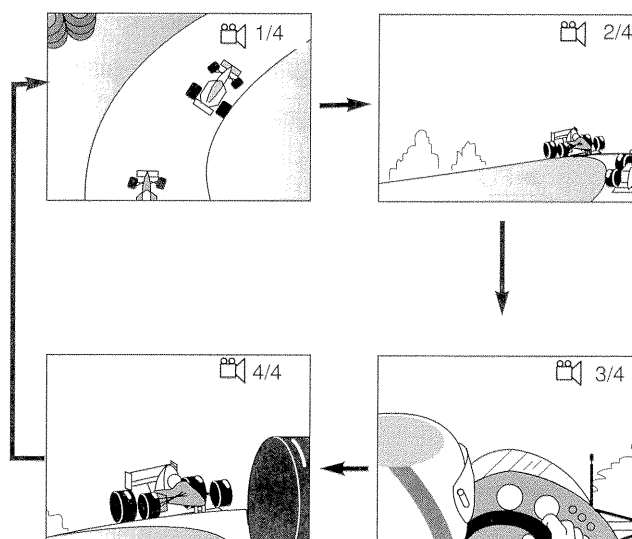
Press the **ANGLE** button during playback when 'ANGLE' Lights in the display window.



- A change will occur each time the button is pressed.
 - The Angle number will appear on the screen.
- Example: When 4 Angle shots are recorded.



- The Multi-Angle function works only with a disc in which several sights of different Angles are recorded. Even so, it will only work when 'ANGLE' lights in the display window.
- It will take a few seconds for the Angle to change after the ANGLE button is pressed.
- If setting ANGLE MARK ON in setup menu (default is ON): When you played DVD disc had multi-angle films that will displaying ANGLE MARK ON right top of screen.

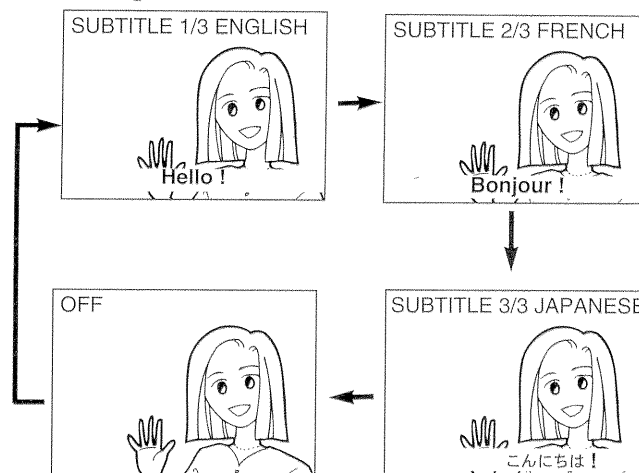
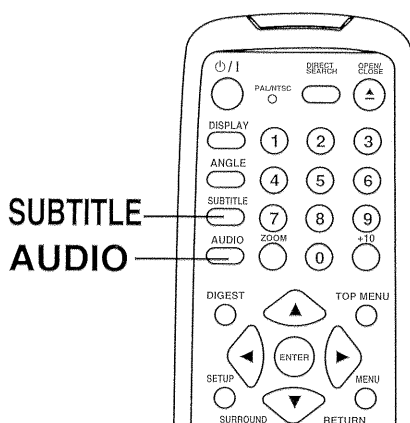


Denominator: Total number of recorded Angles.
 Numerator: The selected Angle number.

TO SELECT A SUBTITLE LANGUAGE

DVD

It is possible to select a Subtitle language on a DVD on which multi-lingual Subtitles has been recorded.



■To hide the Subtitle:

Press the SUBTITLE button and select 'OFF' during playback. Otherwise, select 'OFF' when the Subtitle menu is displayed.



- If the Subtitle language does not change, there is no subtitle or only 1 recorded Subtitle in the disc.
- If a Menu is recorded in the disc, it is also possible to select by pressing the MENU button and then using the Menu. **21**
- You can also select a subtitle language using the SETUP Menu that will be displayed when the SETUP button is pressed, if the language is contained in the disc. **31**

Press the SUBTITLE button during playback.



- The Subtitle languages will change each time the button is pressed.
- The Subtitle language number will be displayed.

Example: When 3 languages are recorded.

Denominator: Total recorded Subtitle languages

Numerator: The selected Subtitle language number

OFF: No Subtitle language displayed.

TO SELECT A SUBTITLE LANGUAGE ■ TO SELECT AN AUDIO LANGUAGE
TO MAGNIFY A PART OF THE SCREEN (ZOOM) ■ TO SELECT VIEW ANGLE

TO SELECT AN AUDIO LANGUAGE

DVD

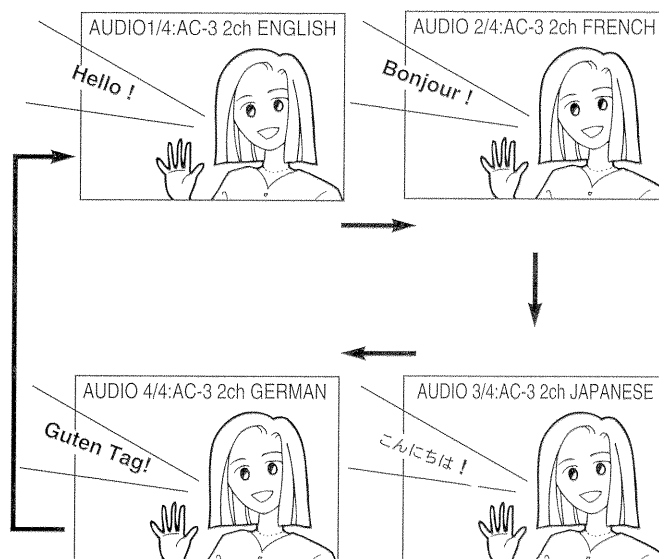
On a DVD in which multi-lingual Audio are recorded, a desired language can be selected.

Press the AUDIO button during Playback.



- The AUDIO language in play will be displayed each time the button is pressed.
- A language number will appear on the screen.

Example: When 4 AUDIO languages are recorded:



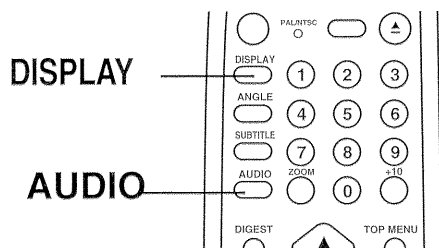
- In the DVD, Dolby Digital or LPCM is recorded in several languages. Please select the Audio you prefer.
- If language does not change, it means there is only one language recorded on the disc.
- If the Menu is recorded on the disc, you can press the MENU button then use the Menu to make a choice. **21**
- You can also select an Audio language with the SETUP Menu that will be displayed when SETUP button is pressed. **31**
- In case of VIDEO CD or CD, if you press the AUDIO button, it will switch from MONO LEFT, MONO RIGHT, STEREO. **28**

Denominator: Total number of recorded AUDIO languages

Numerator: The selected AUDIO language number

APPLICATION

You can change to a sound you prefer.

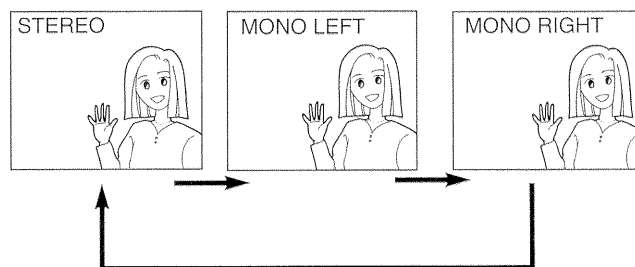


Press the **AUDIO** button during playback.

- A change will occur each time the button is pressed.
- Information for the selected sound will appear on the screen.



- If you press the AUDIO button during a DVD playback, the Audio language will change. **27**



STEREO.....Sound from Lch (left) and Rch (Right) will be output from the left and the right speakers respectively.

MONO LEFT.....Sound from Lch (Left) will be output from both speakers.

MONO RIGHT.....Sound from Rch (Right) will be output from both speakers.

TO GET INFORMATION

DVD

VCD

CD

You can get information on playback state, or time.

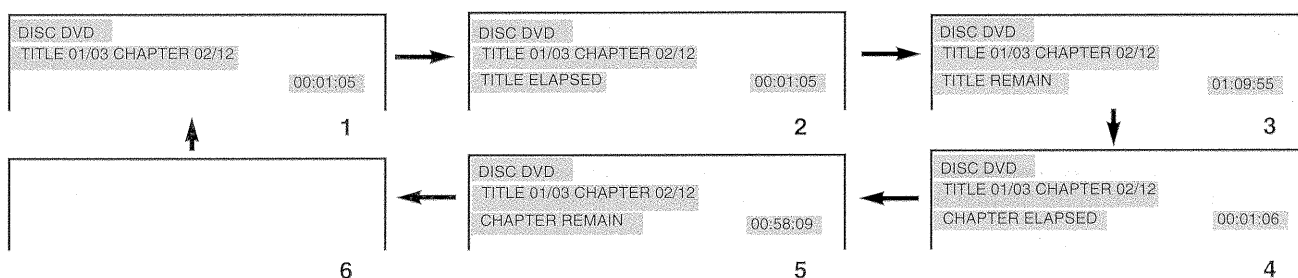
Time indication differs according to the type of disc.

Press the **DISPLAY** button.

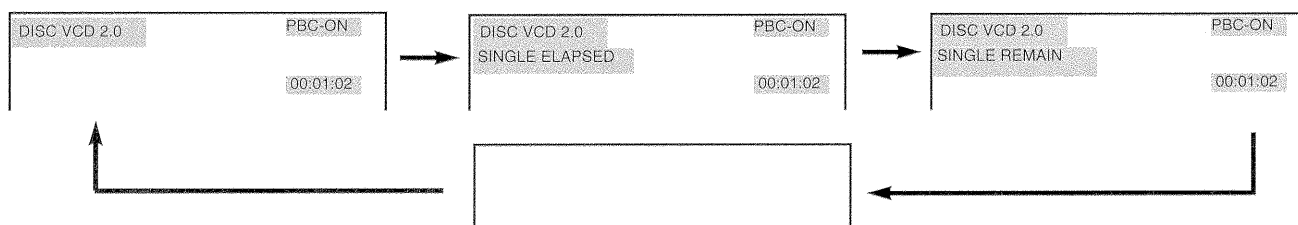
- The mode indication will appear on the screen.
- The indication will change each time the button is pressed.

DISPLAY

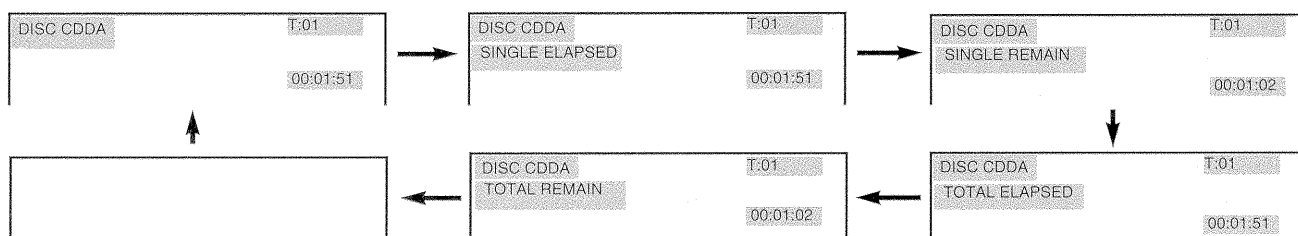
IN CASE OF DVD



IN CASE OF VIDEO CD



IN CASE OF CD



CAUTION

- Time information may not be displayed for some discs.

TO CHANGE THE OUTPUT FORMAT

DVD

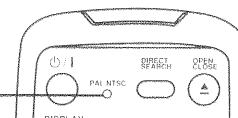
VCD

The output format of video signals can be changed.

CAUTION

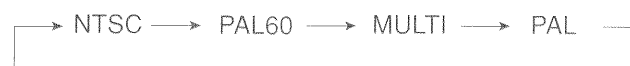
- When the region code of the disc and that of this player frame are not the same, it will not work.
- When a PAL disc is output in the NTSC format, the picture will be slightly narrower.
- Presetting is completed only after the end of the display of the output mode you want.

PAL/NTSC



When power is on, press the remote controller PAL/NTSC button.

- Format will change each time when PAL/NTSC button is pressed.



The relation between DISC source and video output is as follows.

Selected Mode	MULTI		NTSC			PAL		PAL60	
DISC source	NTSC	PAL	NTSC	PAL	PAL	NTSC	PAL	NTSC	PAL
output	DVD/VCD	DVD/VCD	DVD/VCD	DVD	VCD	DVD/VCD	DVD/VCD	DVD/VCD	DVD/VCD
output	NTSC	PAL	NTSC	NTSC	NTSC	PAL	PAL	PAL60	PAL60

PAL60: The video output vertical frequency is 60Hz

TO CHANGE THE SURROUND MODE

DVD

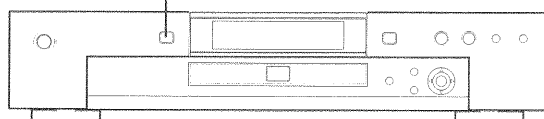
VCD

CD

TO CHANGE THE OUTPUT FORMAT TO CHANGE THE SURROUND MODE TO CHANGE SOUND TO GET INFORMATION

PRESETTING

SURROUND VIRTUAL SURROUND



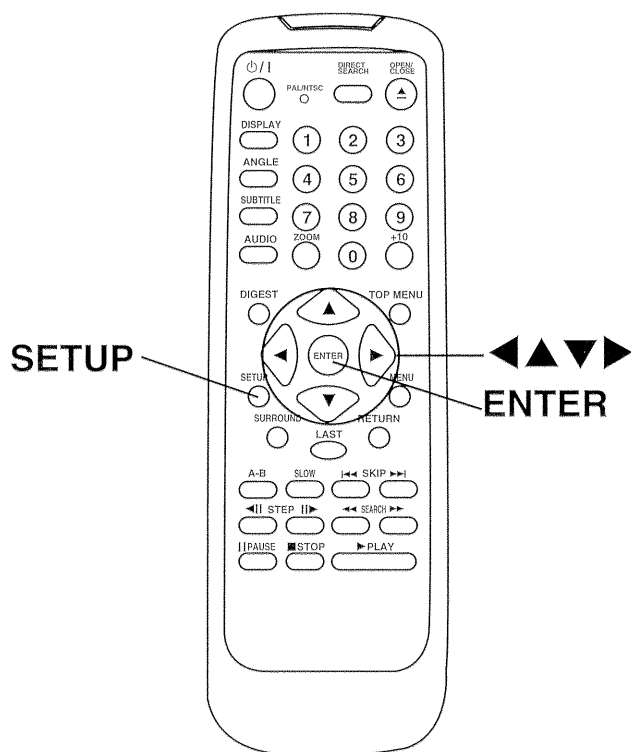
Press the SURROUND button during playback.



- When SURROUND function is 'on', 'VIRTUAL' will appear in the display window.
- Virtual surround's speaker output is 2 channel output.
- When DISC source is multi channel then audio output is 3D audio effect. (DVD only)
- When DISC source is 2 channel then audio output is wide sound effect.

- You can select the surround mode ON or OFF.
- Pressing the SURROUND button will alternate between 'SURROUND ON' and 'SURROUND OFF' on the TV screen.

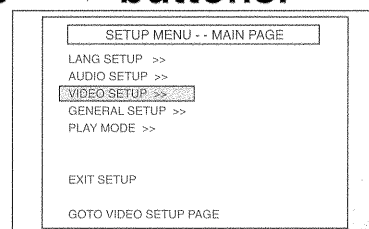
This is for presetting the picture format (aspect) on an ordinary TV on which wide screen DVD is to be output.



1 Press the **SETUP button during a stop.**

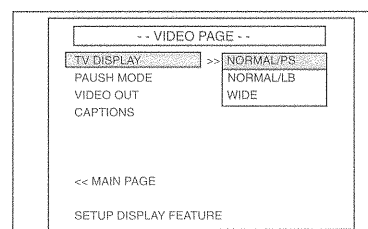
●The SETUP Menu will be displayed.

2 Select 'VIDEO SETUP**' with the **▲▼** buttons.**



●Press the ENTER button, the Video setup menu will displayed.

3 Select 'TV DISPALY**' with the **▲▼** buttons.**



4 Select the item to be setup with the **◀▶▲▼ buttons and then press the **ENTER** button.**

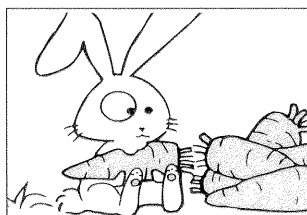
●When ENTER button is pressed, the setting value will be saved.



- The ratio of an ordinary TV screen is 4:3(W:H), and that of wide TV or Hivision TV is 16:9. The ratio is named 'ASPECT RATIO'.
- Some DVDs do not correspond to Pan & Scan modes or Letter Box mode.

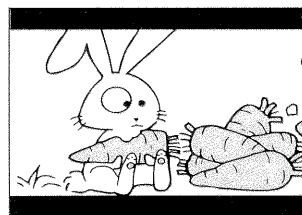
When viewing pictures recorded for wide TV on an ordinary TV, it will look like following:

In Pan & scan mode, the full height will be viewable.



●The side portions of the original picture will be missing.

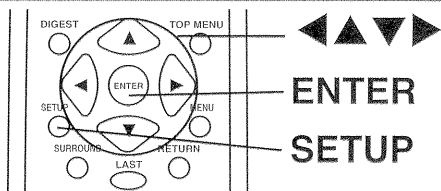
In Letter Box mode, the full width will be viewable.



●The top and bottom zones vacant of picture will be band like.

PRESETTING A SUBTITLE LANGUAGE

DVD



It is possible to select a Subtitle language on a DVD that records multi-lingual Subtitles by using SETUP menu.

- 1 Press the SETUP button during playback.

●The setup menu will be displayed.

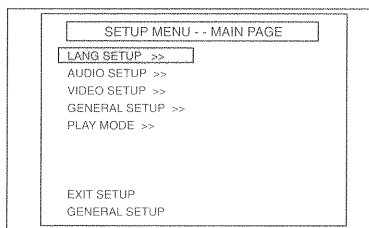


- 2 Select 'LANG SETUP' With ▲▼ buttons.

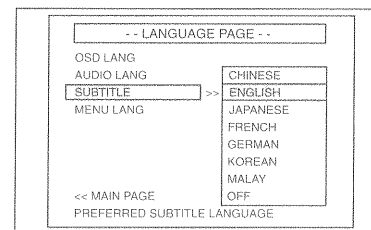
●Press the ENTER button enter the setup menu.



- 3 Select 'SUBTITLE' with the ◀▶ buttons.



- 4 Select multi-lingual subtitle with the ◀▶ buttons.



- 5 Select the desired subtitle language with the ◀▶ buttons.

●The setup menu will disappear when you press SETUP button.



●You can also use SUBTITLE button to select.

27

PRESETTING AN AUDIO LANGUAGE

DVD

It is possible to use the SETUP menu to select a Audio language on a DVD on which multi-lingual Audio have been recorded.

- 1 Press the SETUP button during playback.

●The setup menu will be displayed.

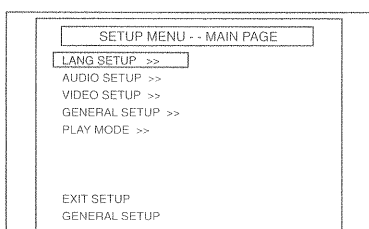


- 2 Select 'LANG SETUP' With ▲▼ buttons.

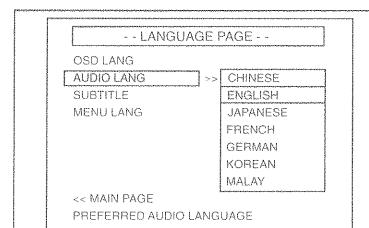
●Press the ENTER button enter the setup menu.



- 3 Select 'AUDIO' with the ◀▶ buttons.



- 4 Select multi-lingual Audio with the ◀▶ buttons.



- 5 Select the desired Audio language with the ◀▶ buttons.

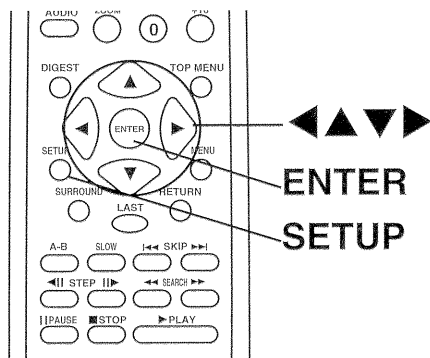
●The setup menu will disappear when you press SETUP button.



●You can also use AUDIO button to select.

27

When playing a DVD with possibility of viewing limitation, you can make it skip scenes you do not want children to see, for example violent scenes.



■For the first time use

When setting the parental level for the first time, you cannot see any code number on the screen, and the player default value is 0000. Therefore, enter 0000, and then input your code number(password) in the password setup item.

■To register a code number

Key in a 4-digit number as your code in the code presetting menu (Figure 5). The number will not appear again from the next operation.

■To undo the code number

If you have forgotten your password, enter the default value(0000). Then you can change the password.

1 Press the SETUP button during a stop.

- The setup picture will be displayed.

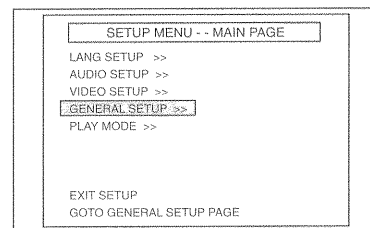
CAUTION

●xxxx represent 4 digits. After having keyed in Password and pressing ENTER, the code will not be displayed again.

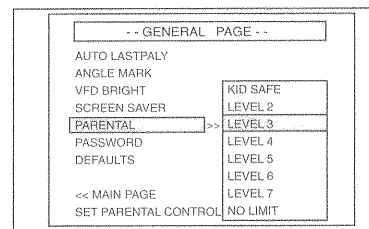


Some discs do not allow parental locking.

2 Select 'GENERAL SETUP' with the ▲▼ buttons, then press the ENTER button.

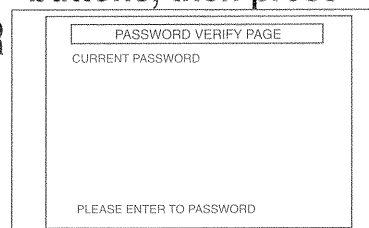


3 Select 'PARENTAL' with the ▲▼ buttons, then press the ► button.



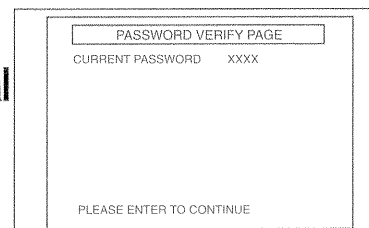
- The parental level setting menu will appear.

4 Select the desired level with the ◀▶ buttons, then press the ENTER button.



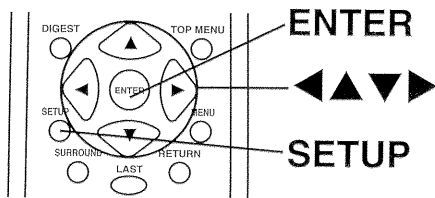
- Code input menu will be displayed.

5 Key in the code number with the numerical buttons.



- If you make a mistake in the code, you cannot setting parental level. Please key in the code again.

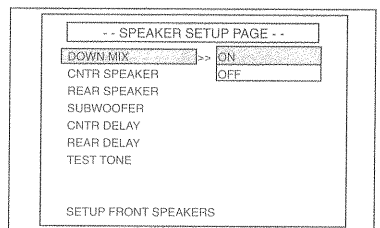
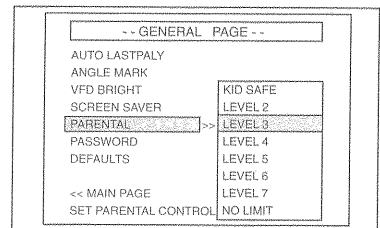
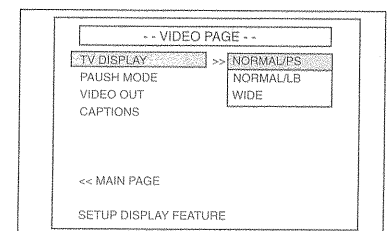
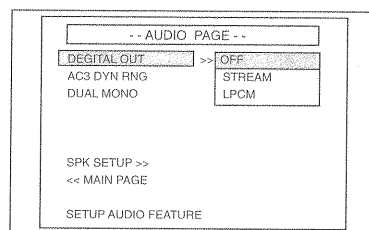
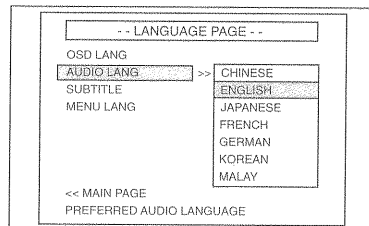
- If you do not change the parental level, please will return before setup menu press the ENTER button.



1 Press the SETUP button.

- The setup menu will be displayed the desired item.

2 Select with ◀ ▲ ▼ ▶ buttons, then press the **ENTER** button.



3 Select the desired item with the ◀▶ buttons, then press the ENTER button.

● Press SETUP button to terminate the setup menu.

Function	Instruction	Initial Status (at ex-factory)	Variable Setup	Fig
① TV DISPLAY	Aspect presetting of the connected TV. Possible only in stop state.	NORMAL/LB	NORMAL/PS	3
			WIDE	
② VIDEO OUT	If you want to change the video output, preset it corresponding to the output setting. Setting YUV VIDEO to match Y.Pb, Pr component output terminal. Because every video signal can't output together.	S-VIDEO	YUV VIDEO	3
③ AUTO LASTPLAY	When a disc is in and power is on, the playback will resume automatically from where it was interrupted last time.	OFF	ON	4
④ OSD LANG	This is a presetting for changing the OSD language of this player. ● When changing the OSD language the Audio, subtitle, and Menu language will be all change to the same language with OSD language.	ENGLISH	FRENCH	1
			SPANISH	
⑤ MENU LANG (DVD only)	Display of Disc Menu in the designated language. If the disc does not correspond to the designated language, then a language will be chosen automatically from the disc. This presetting is possible only during a stop.	ENGLISH	It will designate the language you want.	1
⑥ AC3 RNG	This means Dynamic Range Control of Dolby Digital sound. When it is hard to listen to dialogues in a film with your stereo system or TV set it 'ON'.	OFF You can listen full dynamic audio.	ON It will compress the dynamic range. It may have no effect with some discs.	2
⑦ SCREEN SAVER	When a still picture is displayed for a long time (over 5 min.), it may be as if it is 'printed' on the screen. Screen Saver function is provided to prevent this phenomenon from occurring. It is recommended to set it 'ON'. You can terminate the Screen Saver function by pressing any key.	ON The screen saver will work.	OFF The screen saver will not work.	4

TO CHANGE VARIOUS PRESETTING

⑧ ANGLE MARK	When playing multi-angle DVD disc, a small mark will appear on TV.	ON	OFF	4																											
⑨ PARENTAL (DVD only) <div>32</div>	This means viewing limitation depending on picture contents. If the disc has registered the limitation code, it is possible to make the parental lock work. This function is effective only for a disc recording the limitation. Therefore there are some discs for which the parental lock does not work even if you change parental level. When it is in action, scenes you do not want children to watch will be skipped during playback. Please read details in the user MEMOs of the disc. Once a secret code is preset, the parental level of the next play cannot be changed without resetting that code. Therefore, please do not forget the code. This presetting is possible only during a stop.	NO LIMIT		4																											
⑩ VFD BRIGHT	To change the luminosity of the display window.	LIGHT	DIM NORMAL	4																											
⑪ DIGITAL OUT	<p>You can change the sound output from the digital output terminal. For DVD, there are 4 different specifications: Dolby Digital sound (as used in movies), and Linear PCM (as used in music), DTS and MPEG2.</p> <p>STREAM MODE: DTS source will be output in DTS signals. Dolby Digital source will be output in Dolby Digital signals, and MPEG2 source will be output as MPEG2 signal.</p> <p>LPCM MODE: Disc source will be changed to linear PCM output, and linear PCM signal will be output without change.</p> <table><tr><th>Disc source</th><th>Output when 'STREAM' is chosen</th><th>Output when 'LPCM' is chosen</th></tr><tr><td>48kHz, 16 bit LPCM DVD</td><td>48kHz, 16 bit LPCM</td><td>←</td></tr><tr><td>48 kHz, 20/24 bit LPCM DVD</td><td>48kHz, 16 bit LPCM</td><td>←</td></tr><tr><td>96 kHz LPCM DVD</td><td>48kHz, 16 bit LPCM</td><td>←</td></tr><tr><td>Dolby Digital DVD</td><td>AC-3 Bit Stream</td><td>48kHz, 16 bit LPCM</td></tr><tr><td>MPEG2 DVD</td><td>MPEG2 Bit Stream</td><td>48kHz, 16 bit LPCM</td></tr><tr><td>CD</td><td>44.1 kHz, 16bit LPCM</td><td>←</td></tr><tr><td>Video CD</td><td>44.1 kHz, 16 bit LPCM</td><td>←</td></tr><tr><td>DTS</td><td>DTS bit stream</td><td>X(CANNOT)</td></tr></table> <p>The presetting is possible only when the DVD Player is in the stop mode. For some DVD discs the digital output is selected by own audio menu . <div>33</div></p>	Disc source	Output when 'STREAM' is chosen	Output when 'LPCM' is chosen	48kHz, 16 bit LPCM DVD	48kHz, 16 bit LPCM	←	48 kHz, 20/24 bit LPCM DVD	48kHz, 16 bit LPCM	←	96 kHz LPCM DVD	48kHz, 16 bit LPCM	←	Dolby Digital DVD	AC-3 Bit Stream	48kHz, 16 bit LPCM	MPEG2 DVD	MPEG2 Bit Stream	48kHz, 16 bit LPCM	CD	44.1 kHz, 16bit LPCM	←	Video CD	44.1 kHz, 16 bit LPCM	←	DTS	DTS bit stream	X(CANNOT)	OFF Digital output will not work. When the setting of Digital output is not OFF, the audio analog output jack will have no output.	STREAM When connected to input terminal of an amplifier equipped with DTS or AC-3 or MPEG2 decoder. LPCM When connected to input terminal of an ordinary amplifier or a Dolby Pro Logic amplifier, MD or DAT.	2
Disc source	Output when 'STREAM' is chosen	Output when 'LPCM' is chosen																													
48kHz, 16 bit LPCM DVD	48kHz, 16 bit LPCM	←																													
48 kHz, 20/24 bit LPCM DVD	48kHz, 16 bit LPCM	←																													
96 kHz LPCM DVD	48kHz, 16 bit LPCM	←																													
Dolby Digital DVD	AC-3 Bit Stream	48kHz, 16 bit LPCM																													
MPEG2 DVD	MPEG2 Bit Stream	48kHz, 16 bit LPCM																													
CD	44.1 kHz, 16bit LPCM	←																													
Video CD	44.1 kHz, 16 bit LPCM	←																													
DTS	DTS bit stream	X(CANNOT)																													
⑫ DUAL MONO (2ch OUTPUT)	If you use the 2ch terminals of the player's back panel, select STEREO, MIXED MONO, LEFT MONO or RIGHT MONO in the audio page DUAL MONO setting item.	STEREO	LEFT MONO RIGHT MONO MIXED MONO	2																											
⑬ PAUSE MODE	If there is a still picture shake, please select 'FIELD'. The 'FIELD' mode will reduce the shaking. This presetting is possible only when you playback a NTSC DVD disc under NTSC or AUTO output mode.	AUTO	FRAME FIELD	3																											

■ To reverse the presetting to that of Initial status (at ex-factory). (Please complete this operation without a disc loaded.)

To reverse a setup of secret code of parental level, setup data, or Last Play Memory to that of the initial status (at Ex-factory). At the power on state, operating the player as follows.

1. Press the SETUP button.
2. Select the GENERAL SETUP item.
3. Use ◀▶▶▶ buttons to select DEFAULTS item.
4. Select the RESET item, the player will reverse to initial setup.

CAUTION

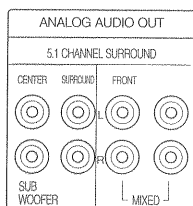
ABOUT PREVENTING TV SCREEN FROM BURNING

When a still picture is displayed for a long time, the picture may appear as printed on the screen. This player has a screen saver function, but screen saver function does not operate when playing a CD. Screen saver function will not operate properly when a DVD, VCD menu picture is shown. Take care not to keep on showing menu picture for a long time. **21**

■ If you use the 5.1ch terminals of the player's back panel, you can set the following parameter.

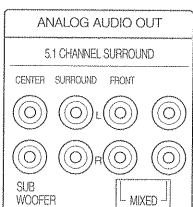
1. If DVD disc's source is Dolby Digital 2ch.
2. If DVD disc's source is Dolby Digital 5.1ch but you select DOWNMIX ON.
Dolby Digital 2ch output from mixed L/R and Front L/R jacks.
3. If DVD disc's source is Dolby Digital 5.1ch and you select DOWNMIX OFF. You can setting individual speaker output ON/OFF and center, rear speaker delay.
Dolby Digital 5.1ch
If DOWNMIX OFF is '5.1ch', Dolby Digital 5.1ch is output from 5.1ch jacks.
If DOWNMIX ON is '2ch', Dolby Digital is down mixed to 2ch output from mixed L/R and Front L/R jacks.

■ DOWNMIX Setting



● When DOWNMIX is specified 'ON':

FRONT L/R: Sound will be output from the MIXED L/R jacks.
MIXED L/R: Sound will be output from the MIXED L/R jacks.
No sound will be output from the CENTER, SURROUND and SUBWOOFER jacks.



● When DOWNMIX is specified 'OFF':

FRONT L/R: Sound will be output from the FRONT L/R jacks.
MIXED L/R: Sound will be output from the FRONT L/R jacks.
Each sound will be output from the CENTER, SURROUND and SUBWOOFER jacks.

■ DTS

DTS total name is Digital Theater System. DTS stands for a Digital Theater System. A high-quality multi-channel digital audio used in movie theaters. DTS is an optional standard of DVD.

■ Dolby Digital

A compressed digital sound recorded on a DVD. Some DVDs record ordinary stereo sound in Dolby Digital, others record surround sound of 5-channel maximum and bass specialized channel on the Dolby Digital. You can enjoy surround sound by connecting the optical/coaxial digital output terminal of the player to the optical/coaxial digital input terminal of a Dolby Digital decoder or built-in amplifier of a decoder.

■ Linear PCM (Pulse Code Modulation)

A digital sound that is not compressed in a CD or a DVD.

■ MPEG Audio

A digital sound recorded in other types of compression other than Dolby Digital.

■ Title

The largest unit of image or music recorded on a DVD. A number associated with a title is called 'Title Number'. When title numbers are recorded on a disc, you can choose a title number to play (Chapter Search).

■ Chapter

This is a unit smaller than the title used to designate a picture or a musical piece recorded in a DVD. A chapter No. is a number designated to a particular chapter. It is possible to choose a wanted chapter No. to play by using a CHAPTER SEARCH operation when chapter numbers are recorded in a disc.

■ Track

Images or music recorded on a CD or VIDEO CD. A number associated with a chapter is called a 'Track Number'. When track numbers are recorded on a disc, you can choose a track number to play (Track Search).

■ VIDEO CD

A disc that can playback video with an equivalent image quality of image of VHS. Thanks to a compression technique of digital signals (MPEG 1), continuous play of 74 minutes of digital images and sound is possible.

■ Playback Control (PBC)

A signal memorized in a VIDEO CD for controlling the playback.

With PBC you can enjoy the playback of software allowing searches or simple interactive software by using the Menu Image memorized on a VIDEO CD. Furthermore, you can also enjoy high resolution/standard still images.

■ High resolution still image

If there is a high resolution still image contained on a VIDEO CD, it can be viewed in a resolution 4 times better than video.

■ Screen saver

When a still image is displayed for a long time, the image may appear as printed on the screen. To avoid this, a screen saver is used. If you do not operate during a certain time, it will automatically darken the screen. In addition, it will display an animated image to avoid strong light (luminous color) concentration on one spot of the screen.

■ Multi-angle

We watch a TV show in general from the same view point as the camera that is shooting it. In a TV studio there are several cameras shooting and the program director chooses one among them to show. It is possible for a watcher to select a view point (camera) if the images of all the cameras are broadcast simultaneously. Some DVDs record images shot by several cameras simultaneously and let the player select a view point. This is called Multi-angle.

■ Aspect ratio

The ratio of width to height of a TV screen. An ordinary TV has a ratio of 4:3 and Wide TV or High Vision TV has a ratio of 16:9. With wide lateral spread images one feels as if one is on the spot.

■ Parental level

A device for viewing restriction imposed on children by parents.

■ Subtitle language

A DVD subtitle may record as many as 32 languages and one may choose any one among them.

■ Region code

A region code that defines the geographical region in which playback is possible is preset in a DVD player and a DVD disc. If the code recorded on a disc is not for the region where you want to playback the disc, it does not work. The region codes are as follows:

NORTH AMERICA	NO.1	AUSTRALIA, SOUTH AMERICA	NO.4
JAPAN, EUROPE, THE MIDDLE EAST	NO.2	RUSSIA, INDIA, AFRICA	NO.5
ASIA	NO.3	CHINA	NO.6

BEFORE ASSUMING IT IS A BREAKDOWN...

Sometimes we may assume the player has broken down when in fact the power plug is not plugged in. Please check the following items before calling your dealer. In addition, there may be causes other than those involving the player. Please check the TV, stereo component, and other electrical devices you are using at the same time. If the trouble still exists after checking the following items, please consult your dealer.

Symptom	Probable causes	Reference page
No power feed.	<ul style="list-style-type: none"> ● The power cord is not well connected. 	16
No image or image in disorder.	<ul style="list-style-type: none"> ● The AV cord is not well connected. ● The disc is dirty, or damaged. ● This player corresponds to the copy guard of macro-vision mode. If the disc contains copy guard signals, playing it with some TVs may produce horizontal bars on the screen. This is not a breakdown. ● Please connect the player directly to the TV. When viewing the images output by the player through a video deck, the image may be in disorder by the action of the copy guard. ● DIGITAL OUTPUT has been set to an option other than OFF. 	16 12 16 34
No sound.	<ul style="list-style-type: none"> ● The AV cord is not well connected. ● The disc is dirty, or damaged. ● It is set in pause, slow playback, or quick playback. 	16 12 19
The remote control device does not work.	<ul style="list-style-type: none"> ● The distance to the player is too far. ● The angle to the signal receiving eye is too wide. ● The batteries are dead. ● Direct sunshine or a strong light is interfering with the signal receiving eye. 	13
The playback image will be in disorder if DVD images are recorded on VCR.	<ul style="list-style-type: none"> ● The player corresponds to the copy guard of Macrovision type. Some discs register copy prohibiting signals. If such a disc is recorded on VCR, then the playback will not be normal because of the copy guard system. 	
Playback not working.	<ul style="list-style-type: none"> ● The disc is not correctly set in. ● The disc is dirty or damaged. ● A disc that cannot be played by the player is in. ● There is condensation in the player. ● The parental lock is locked. ● The region code of the disc is different. 	18 12 11 8 32 11
Special effects play not working.	<ul style="list-style-type: none"> ● Some discs prohibit some user operation. 	
Subtitle language cannot be changed.	<ul style="list-style-type: none"> ● The played disc has no record of multi-lingual Subtitles. 	27
Audio language cannot be changed.	<ul style="list-style-type: none"> ● The played disc has no record of multi-lingual Audio. 	27
Angle cannot be changed.	<ul style="list-style-type: none"> ● The played scene has no record of multiple Angles. 	26
Playback from the beginning of DVD impossible.	<ul style="list-style-type: none"> ● There are discs that will not start from the beginning after stop and start. Please operate with MENU or TOP MENU button. 	21 21
The menu is in a different language.	<ul style="list-style-type: none"> ● The MENU language is not properly preset. 	33
The menu for VIDEO CD does not appear.	<ul style="list-style-type: none"> ● A VIDEO CD not corresponding to PBC is being played. ● Required operation for a VIDEO 	11 21

CAUTION

Sometimes the player may not work normally because of an external influence such as a static electric charge, usage of non-standard disc, etc. In such cases please press POWER/STANDBY button. If, in about 20 seconds after having pressing POWER/STANDBY button, it does not turn on STANDBY state (STANDBY indicator light in red, light of the indicator window extinguished), please pull out once the power plug then plug it in again. The player will be back to the normal state.

SPECIFICATION

General	ModelDV-P505U Operating Laser Semi-conductor laser: Wave length 650 nm (DVD)780 nm (CD, VCD) Power supply..... DV-P505U AC120V, 60 Hz Power consumption:24 W Weight3.7kg Overall size434 (W) x 284 (D) x 91 (H) mm Allowable operating temperature+5°C~+35°C Allowable operating humidity15~75% (no condensation)	
Component output terminal	Y output level.....1 Vp-p (75 Ω) P _B output level NTSC0.7 Vp-p (75 Ω) PAL0.698 Vp-p (75 Ω) P _R output level NTSC0.7 Vp-p (75 Ω) PAL0.698 Vp-p (75 Ω) Output terminalpin jack	
S Video output terminal	Y output level1 Vp-p (75 Ω) C output level NTSC0.286Vp-p (75 Ω) PAL0.3Vp-p (75 Ω) Output terminalS terminal	
Video output	Output level1Vp-p (synchronous when loaded at 75 Ω) Output terminalpin jack	
Audio output	OUTPUT Level200mVrms (1kHz, -20 dB) Mixed 2ch OUTPUT1 system(pin jack x 2) 5.1ch OUTPUT1 system (pin jack x 6) Sound characteristics Frequency characteristics SN ratio Dynamic range Total harmonic distortion rate Wow / flutter	CD: 4 Hz~20kHz (EIAJ) DVD: 4 Hz~22kHz (48k sampling) 4Hz~44kHz (96k sampling) 110 dB 100 dB 0.003% Measurement limit less than (±0.001% W.PEAK) (EIAJ)
Other terminals	Digital Audio output Optical/Coaxial (STREAM,LPCM, OFF commutable)	Coaxial terminal1 Optical connector ... 1
Accessories	Remote control unit1 Single type "AAA" battery2 AV cord1 Power cord...1	

●This specification and exterior aspect of the model may be changed for improvements without advance notice.

BEFORE ASSUMING IT IS A BREAKDOWN SPECIFICATION

REFERENCE

HITACHI

service hotline

To locate an authorized
HITACHI service facility in
the continental U.S.A

DIAL TOLL FREE
7 days a week, 24 hours a day

800 HITACHI

1-800-448-2244

Hitachi has made every effort to assure you hours of trouble free operation from your unit. However, should you require service, a network of Hitachi Authorized Service Facilities has been established in all 50 states and Puerto Rico. Each facility will provide you with convenient and expedient assistance. Our service "Hotline" operator will direct you to the Hitachi Authorized Service Facility nearest you. Just present proof of purchase and/or delivery receipts to the Hitachi Authorized Service Facility and service will be rendered in accordance with the terms of the limited warranty as stated on your warranty card or operating guide.

Should you have any questions regarding in-warranty service, operation or technical assistance, please contact:

HITACHI AMERICA, LTD.
HOME ELECTRONICS DIVISION

1855 Dornoch Court,
San Diego, California 92173,
Tel: 1-800-HITACHI
(1-800-448-2244)

HITACHI CANADA LTD.
DIGITAL MEDIA DIVISION

6740 Campobello Road, Mississauga,
Ontario L5N 2L8 CANADA
Tel: 1-800-HITACHI
(1-800-448-2244)

during the business hours
Monday - Friday EST 9:00am~7:00pm
Saturday EST 9:00am~5:00pm

durant les heures de bureau :
Lundi au Vendredi 9:00am~7:00pm (h.n.e.)
Samedi 9:00am~5:00pm (h.n.e.)