

# Operating Instructions

## CD CDV LD PLAYER CLD-1070

COMPACT  
**disc**  
DIGITAL AUDIO

**CD VIDEO**

NTSC



LaserVision



Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

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

### IMPORTANT NOTICE

[For U.S. and Canadian models]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure place.

[For Canadian model]

**CAUTION:** TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

**ATTENTION:** POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DEVOUVERT.

### LINE VOLTAGE SELECTOR SWITCH

Only multi-voltage models are provided with this switch. U.S., Canadian, European, U.K., and Australian models are not provided with this switch.

Mains voltages in Saudi Arabia are 127V and 220V only. Never use this model with 110V setting in Saudi Arabia.

The line voltage selector switch is located on the rear panel of this player. Before your player is shipped from the factory, the switch is set to the power requirements of the player's destination. Check that it is set properly before plugging the power cord into the outlet. If the voltage is not properly set or if you move to an area where the voltage requirements differ, adjust the selector switch as follows: Use a medium-sized (flat blade) screwdriver. Insert the tip of the screwdriver into the groove of the selector switch and turn it to set the player to the power voltage of your area.



Set the selector so that arrow points power voltage of your area (Figure shows arrow pointing to 110 volts.)

# IMPORTANT



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of 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.

**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.



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

## SAFETY INSTRUCTIONS

**READ INSTRUCTIONS** — All the safety and operating instructions should be read before the appliance is operated.

**RETAIN INSTRUCTIONS** — The safety and operating instructions should be retained for future reference.

**HEED WARNINGS** — All warnings on the appliance and in the operating instructions should be adhered to.

**FOLLOW INSTRUCTIONS** — All operating and use instructions should be followed.

**CLEANING** — Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

**ATTACHMENTS** — Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

**WATER AND MOISTURE** — Do not use this video product near water — for example, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

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

**CART** — 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.

**POLARIZATION** — This video product is 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.

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

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

**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.

**OVERLOADING** — Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.

**OBJECT AND LIQUID ENTRY** — Never push objects of any kind into this video 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 video product.

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

**DAMAGE REQUIRING SERVICE**  
Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions:  
a. When the power-supply cord or plug is damaged.  
b. If liquid has been spilled, or objects have fallen into the video product.  
c. If the video product has been exposed to rain or water.  
d. If the video product does not operate normally by following the operating instructions. 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 video product to its normal operation.  
e. If the video product has been dropped or the cabinet has been damaged.  
f. When the video product exhibits a distinct change in performance — this indicates a need for service.

**REPLACEMENT PARTS** — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

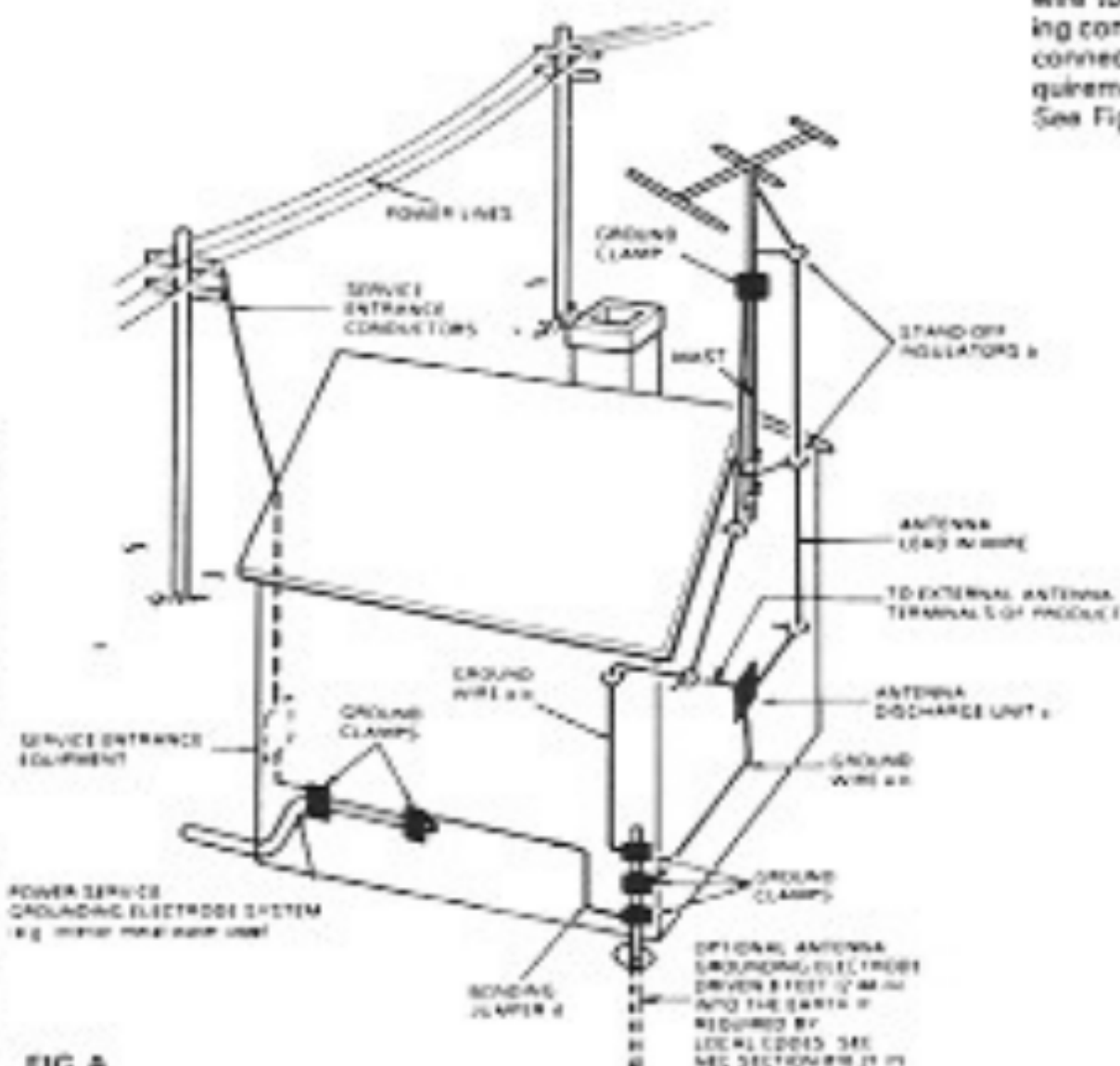
**SAFETY CHECK** — Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.

**OUTDOOR ANTENNA GROUNDING** — If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. In the U.S.A., section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect 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 Fig. A.



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

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



- Use No. 10 AWG (5.3 mm<sup>2</sup>) copper wire, No. 8 AWG (8.4 mm<sup>2</sup>) aluminum wire, No. 17 AWG (1.0 mm<sup>2</sup>) copper-clad steel wire, bronze wire or larger wire as ground wire.
- Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4 feet (1.22 meters) to 6 feet (1.83 meters) apart.
- Mount antenna discharge unit as closely as possible to where lead-in enters house.
- Use jumper wire not smaller than No. 6 AWG (13.3 mm<sup>2</sup>) copper, or the equivalent, when a separate antenna-grounding electrode is used. See NEC Section 810.21 (g).

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## [FOR U.S. MODEL] CAUTION

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The use of optical instruments with this product will increase eye hazard.

## [For Canadian model]

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

- This player may be used with LaserVision Discs, Compact Discs, and Compact Discs with Video bearing the following symbols.

### (LaserVision Disc)\*



LaserVision

This is the unified symbol mark of LaserVision videodisc

\* LaserVision players and discs which bear this symbol and use the same television system, are mutually compatible.

### (Compact Disc)



### (3-inch Compact Disc)



### (\*\*CD VIDEO SYSTEM)



\*\* A Digital Sound with Multi Audio Disc (CD VIDEO CDV) are referred to as CD Video discs. CD Video discs are recorded with subcodes, which are the non-audio recordings of TOC data such as track numbers, index numbers, etc.

### Note to CATV system installer

This reminder is provided to call the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Only one disc can be loaded at any one time. Loading a LaserVision Disc, a Compact Disc, a 3" Compact Disc or a Compact Disc with Video on top of one another may result in breakdown, or in scratching of the discs. Please only load one disc at a time.

This player is to be used exclusively with the NTSC color system. Please use NTSC LaserVision Disc or NTSC Compact Disc with Video only. PAL and SECAM system discs cannot be used with this player.

## PRECAUTIONS

Always remove the disc when this unit is moved or packed for transportation. After removing the disc, return the disc table and turn the power OFF.

### INSTALLING THE PLAYER

- Place a player on a stable platform next to the television and stereo system to be used with the player.
- When using the player with a stereo system, your speakers should be placed away from your television (or TV monitor).
- Do not place heavy objects such as a television or TV monitor on top of the player.
- Do not place the player on top of your TV set or TV monitor. Also, keep the player away from devices such as cassette decks which are sensitive to magnetic fields.

When FM or AM stations are being received, signal noise may be generated if the player is turned on. Turn off the player when not in use.

Also, if there is signal noise when receiving radio stations with an indoor antenna, adjust the position or direction of the antenna.

### INSTALL THE PLAYER IN A WELL VENTILATED PLACE AWAY FROM HEAT AND HUMIDITY

Do not install the player in a location subject to direct sunlight, or near a stove or radiator etc. This could adversely affect the cabinet and internal components. Also avoid installing the player in a humid or dusty location. This could result in a malfunction or accident. Do not install near a cookstove where the player could be affected by smoke, steam, or heat.

### AVOID SOURCES OF HEAT

Do not put the player on sources of heat, such as an amplifier. When installing with audio components on a rack, avoid components that generate heat, by placing the player below such components where there is adequate ventilation and not much dust.

Avoid placing the player on surfaces such as shaggy carpets, beds, and sofas which may block ventilation under the player and cause damage.

### CAUTIONS FOR AUTOMATIC LOADING OPERATIONS

Since this player has an automatic loading construction, use the key on the player or the remote control for opening and closing of the disc table. To avoid damage, be careful not to apply any force to the moving disc table.

### STRIPE PATTERNS APPEARING ON A TV PROGRAM

Stripe patterns may appear during a TV program if the player unit is turned on, depending on the quality of reception of the TV station. This is neither a malfunction of the television nor the player. If stripes appear while watching the TV, or when watching the TV for long periods of time, turn the player off.



### CONDENSATION

Moisture will form in the operating section of the player if the player is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, player's performance will be impaired.

To prevent this, let the player stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.

The same, symptoms of condensation may be caused during summer, if the player is exposed to the breeze from an air conditioner. In such cases change the location of the player.

### CLEANING CARE

Use a soft, dry cloth for cleaning. For stubborn dirt, soak the cloth in a weak detergent solution; wring well first and wipe. Use a dry cloth to wipe it dry. Do not use any volatile agents such as benzene or paint thinner, as it may damage the surface of the player.

## AVAILABLE OPERATIONS

### With LDs (LaserVision video Discs)...

#### Program Playback

Up to 24 chapters can be selected from a disc and played in any desired order.

#### Multi-speed Playback (CAV discs only)

The playback speed can be varied in 9 steps in both the forward and reverse directions. Still frame playback and Frame Advance Playback (forward/reverse) are also available.

#### Repeat Playback

Four repeat modes — Memory Repeat, 1-chapter Repeat, One-side Repeat, and Section Repeat — are available.

### With CDs (Compact Discs)...

#### Program Playback

Up to 24 tracks can be selected from a disc and played in any desired order.

#### Random Playback

All tracks on a disc can be played in random order.

#### Repeat Playback

Four repeat modes — Memory Repeat, 1-Track Repeat, All-track Repeat, and Section Repeat — are available.

#### Auto Program Editing

The player automatically selects and programs the tracks which can be played back within a specified time.

### With CDV (Compact Disc with Video) discs...

The video part (containing both audio and video signals) is played first.

#### Track time search

##### For the video part (audio and video):

- The same functions available for LD (CLV) playback can be used.

##### For the audio part (audio only):

- The same functions available for CD playback can be used.

## CONFIRMATION OF ACCESSORIES

### THE FOLLOWING ACCESSORIES ARE SUPPLIED WITH THIS PLAYER

- Remote control unit
- Size "AAA" (IEC R03) dry cell battery x 2



- Video connecting cord (Pin plug ↔ Pin plug)  
Use to connect the player to a color monitor etc.



- Antenna adaptor (75Ω/300Ω ↔ 75Ω F-type plug)  
Use to connect a VHF antenna cable to the antenna terminal of the player.



- RF antenna cable (J-type plug ↔ J-type plug)  
Use to connect the player to a TV set.



- Audio connecting cord (Pin plug x 2 ↔ Pin plug x 2)  
Use to connect the player to a stereo amplifier etc.






- F-type jack — IEC plug adaptor (U.S. Military model only)



- Operating instructions
- Warranty card

# DISCS

LaserVision Discs (LD), Compact Discs with Video (CDV) and Compact Discs (CD) have the following characteristics.

		LD	CDV	CD	
Disc shape		 12-inch (8-inch) Double-sided or one-sided discs	 5-inch One-sided disc	 5-inch (3-inch) One-sided disc	
Color		Silver	Gold	Silver	
Recorded material	Audio only		X	20 min., Digital	
	Audio + video	Video	12-inch (Double-sided) CLV 120 min. CAV 60 min. 8-inch CLV 40 min. (Double-sided), 20 min. (One-sided) CAV 28 min. (Double-sided), 14 min. (One-sided)	5 min. (CLV)	5-inch: More than 60 min., Digital 3-inch: More than 20 min., Digital
		Audio	Digital	O	O
	Analog	O	X	—	—
Disc rotation speed		CLV 1800 ~ 600 rpm CAV 1800 rpm	Audio portion (Inner circumference) 600 ~ 340 rpm Video + Audio portion (Outer circumference) 2700 ~ 1800 rpm	5-inch 600 ~ 200 rpm 3-inch 600 ~ 300 rpm	

## LD GLOSSARY

### Chapter number

Chapter numbers are used to indicate the boundaries of the sections on a disc, similar to the "chapters" in a book. If chapter numbers are recorded on a disc, it is so indicated on the jacket of the disc, etc. Chapter numbers can be used to search for desired chapters (Chapter Search).

### Frame number

Frame numbers are the numbers assigned to each picture frame on a CAV (standard play) disc. Frame numbers can be used to search for desired frames (Frame Search).

### Time number

Time numbers indicate the time elapsed from the beginning of a CLV (extended play) disc. Time numbers can be used to search for desired scenes (Time Search).

## CDV/CD GLOSSARY

### Track number

Track numbers indicate the boundaries of the sections, or "tracks", on a disc. Track numbers are assigned consistently throughout the audio part and video part of a disc. Track numbers can be used to search for desired tracks (Track Search) or to repeat desired tracks (Track Repeat).

### TOC

Every CD/CDV-type disc is provided with a section called TOC (Table Of Contents) at the beginning of the disc. The TOC section is just like the table of contents of a book, and contains information on the contents (number of tracks, playing time, etc.) of the disc.

- Some LD discs are also provided with a TOC section.

## LASERVISION VIDEODISCS

The CLD-1070 can play both LaserVision Discs and Compact Discs. Unlike conventional phonograph records, these discs are played back from the inside edge out.

LaserVision Discs are available as both standard play discs and extended play discs. Discs with digitally recorded sound are also available.

### STANDARD PLAY (CAV) DISCS

Standard play discs are played at constant angular velocity (CAV).

### EXTENDED PLAY (CLV) DISCS

These discs are played back at constant linear velocity (CLV), and are therefore able to play for a longer time than standard play discs.

### LASERVISION WITH DIGITAL SOUND DISCS



The jackets and labels of these discs bear the symbol on the left.

In addition to conventional analog sound signals, LaserVision with Digital Sound Discs also have recorded on them the same kind of PCM sound signals that are recorded on Compact Discs.

With these discs, the high quality pictures of LaserVision Discs and digital sound, can be enjoyed at the same time. The two types of sound, digital and analog, are recorded on the discs using different frequency bands.

### LASERVISION WITH DIGITAL SOUND WITH MULTI AUDIO DISC



The jackets and labels of these discs bear the symbol on the left.

Digital audio and analog audio feature different audio reproduction characteristics, and the two types can be switched back and forth freely for appreciation of both digital and analog audio.

Audio applications

Disc \ Audio	Analog audio	Digital audio
Movies, Animations, etc.	Audio of the main program (Program compilation)	Sound track (Music compilation)
Dual music	Music 1	Music 2
Stereo bilingual broadcasting	English	Foreign language 1
Tri-lingual	English	D1/L Foreign language 1 D2/R Foreign language 2
Quad-lingual	A1/L English A2/R Foreign language 1	D1/L Foreign language 2 D2/R Foreign language 3

## CD VIDEO SYSTEM (CD VIDEO LD)



This is a LaserVision disc that has this mark attached to the jacket and the label. The sub-code, which contains TOC and data other than the audio and video signals, is recorded on CD VIDEO LD.

The CD VIDEO SYSTEM is the standard name for the "optical digital video disc system" that includes CDV. The CD video system is determined by the mark shown on the following. This mark will be found on all players and discs which conform to the CD video system format.



The CD VIDEO SYSTEM includes the following systems.

- CDV discs (CD VIDEO CDV)
- LaserVision Disc (CD VIDEO LD) containing digital sound with sub-codes.
- A combined player which can play CD and CDV.
- A combined player which can play CD, CDV and LD.



## CARE OF DISCS

### How to hold discs

When loading or removing discs, try not to touch their playing surfaces.

#### How to hold the LaserVision Disc

**Holding with both hands...** Hold the disc by its edges with both hands, as shown in Fig. A.

**Holding with one hand...** As shown in Fig. B, hold the disc by its center hole and one edge.



Fig. A



Fig. B

#### How to hold the Compact disc

Hold the disc by its edges as shown in Fig. C.

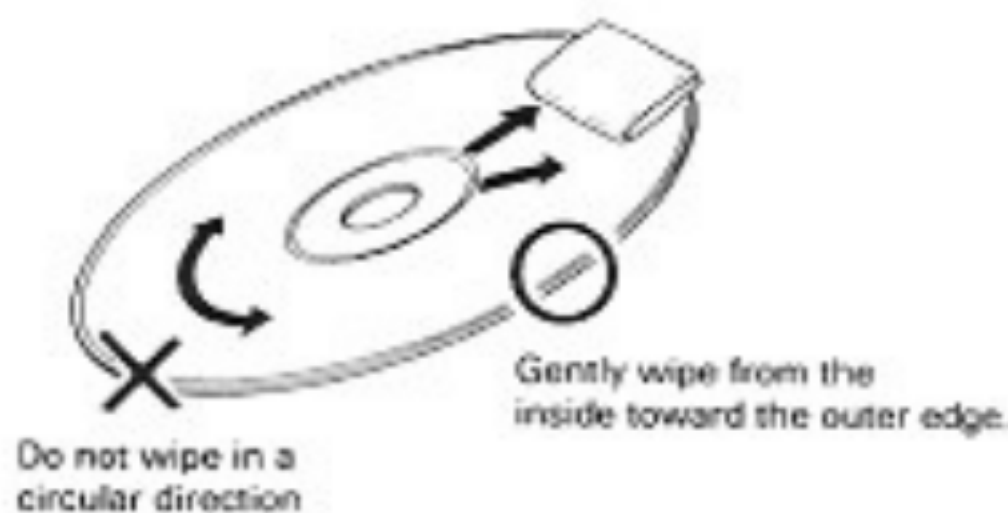


Fig. C

### Cleaning

The presence of fingerprints or other dirt etc. on the disc, will not directly affect the recorded signal. Nevertheless, dirt on the disc will cause the reduction of brightness of the light reflected from the signal surface, which may adversely affect sound and picture quality. If a disc is dirty, clean the disc before playing it.

To clean your discs, use a soft clean cloth to wipe them. If necessary, moisten a soft cloth with diluted neutral detergent to remove heavy dirt or fingerprints.



Discs may not be cleaned with record cleaning sprays, or static prevention sprays etc. Also do not use volatile liquids such as benzene, or thinner etc.

### DO NOT PLAY CRACKED OR WARPED DISCS.

- The disc revolves on the player at a high speed when it is played. Never play a cracked, scratched or warped disc. This may damage the player or cause it to malfunction.



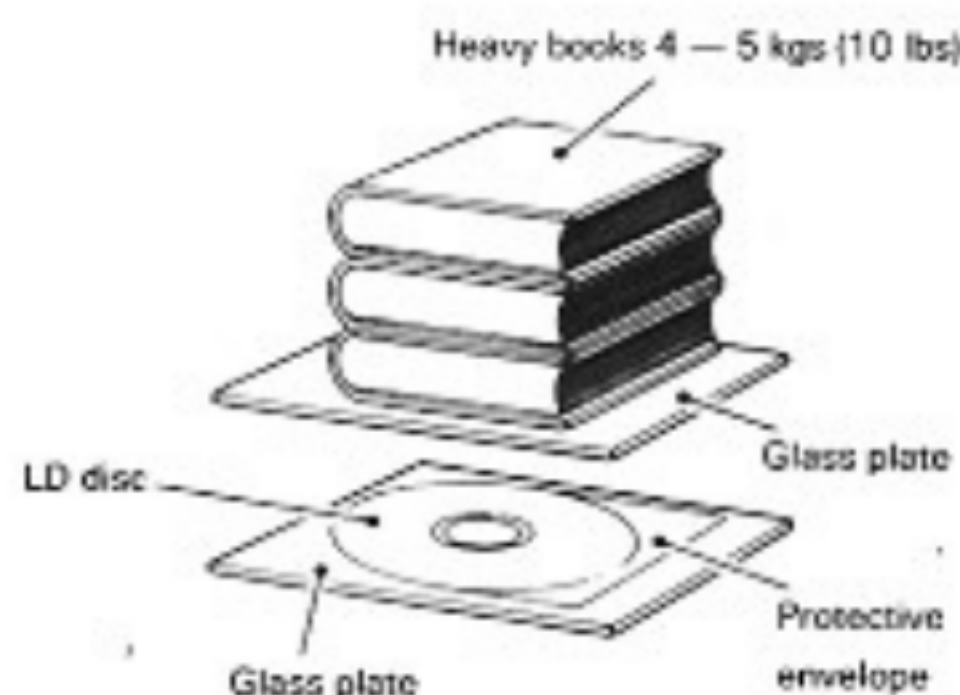
### After using discs, store them upright

After playing a disc, always remove it from the player and return it to its jacket. Then store it standing upright away from heat and humidity.

- Store discs carefully. If you store discs at an angle, or stacked on top of each other, discs may become warped even when in their jackets.
- Do not leave discs in locations such as the seat of car, which may become excessively hot.

### LD discs only

If a disc is warped, put the disc into its protective envelope, and then place it between two flat plates of glass. Then place heavy books on top of the plates so that approximately 4 to 5 kgs (10 lbs) is applied. Leave the disc like this for a day or so. This may correct the warp.



### CAUTION WHEN USING THE DISC

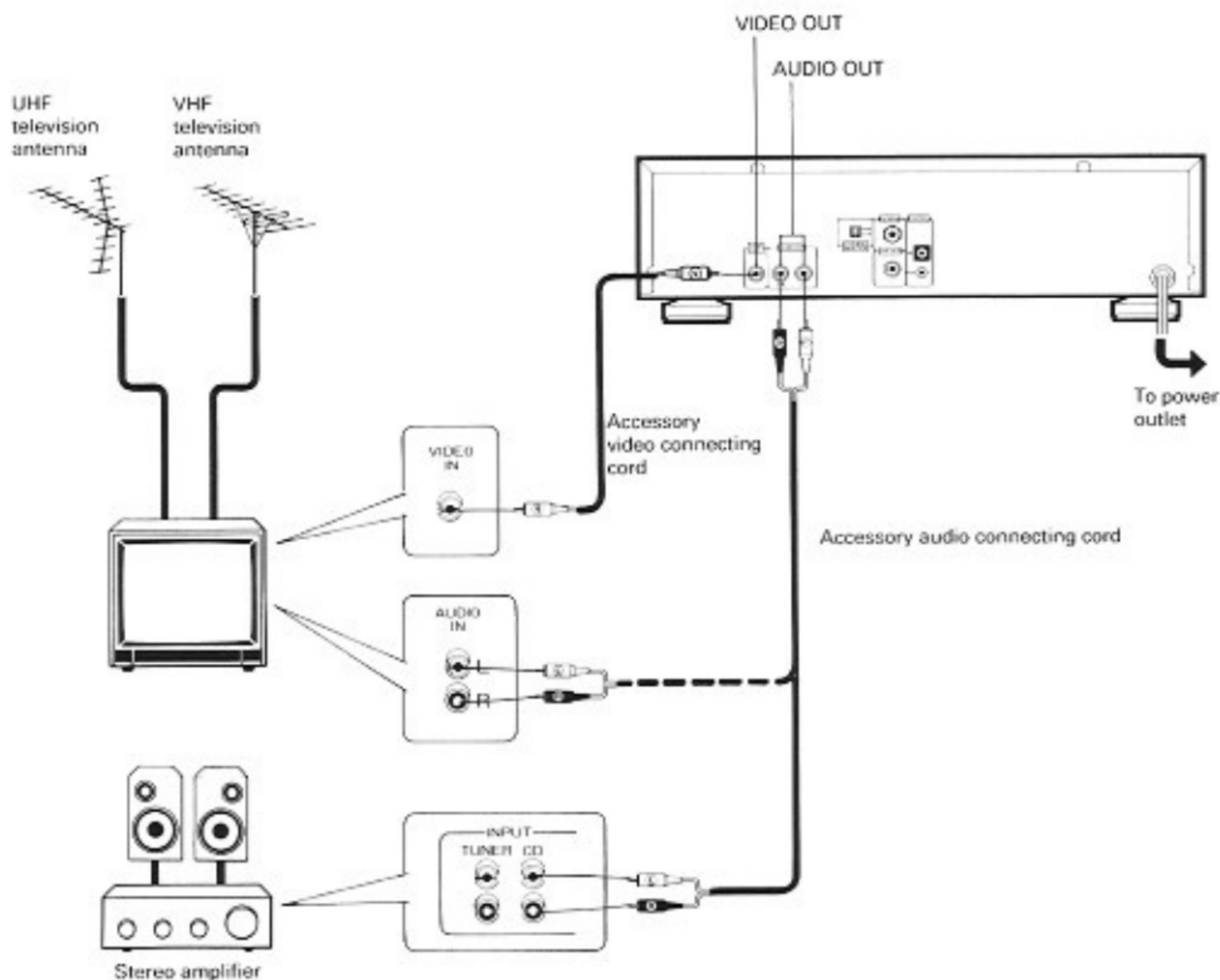
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# CONNECTIONS

## USING TELEVISION WITH AUDIO AND VIDEO JACKS

CLD-1070, stereo system, monitor television



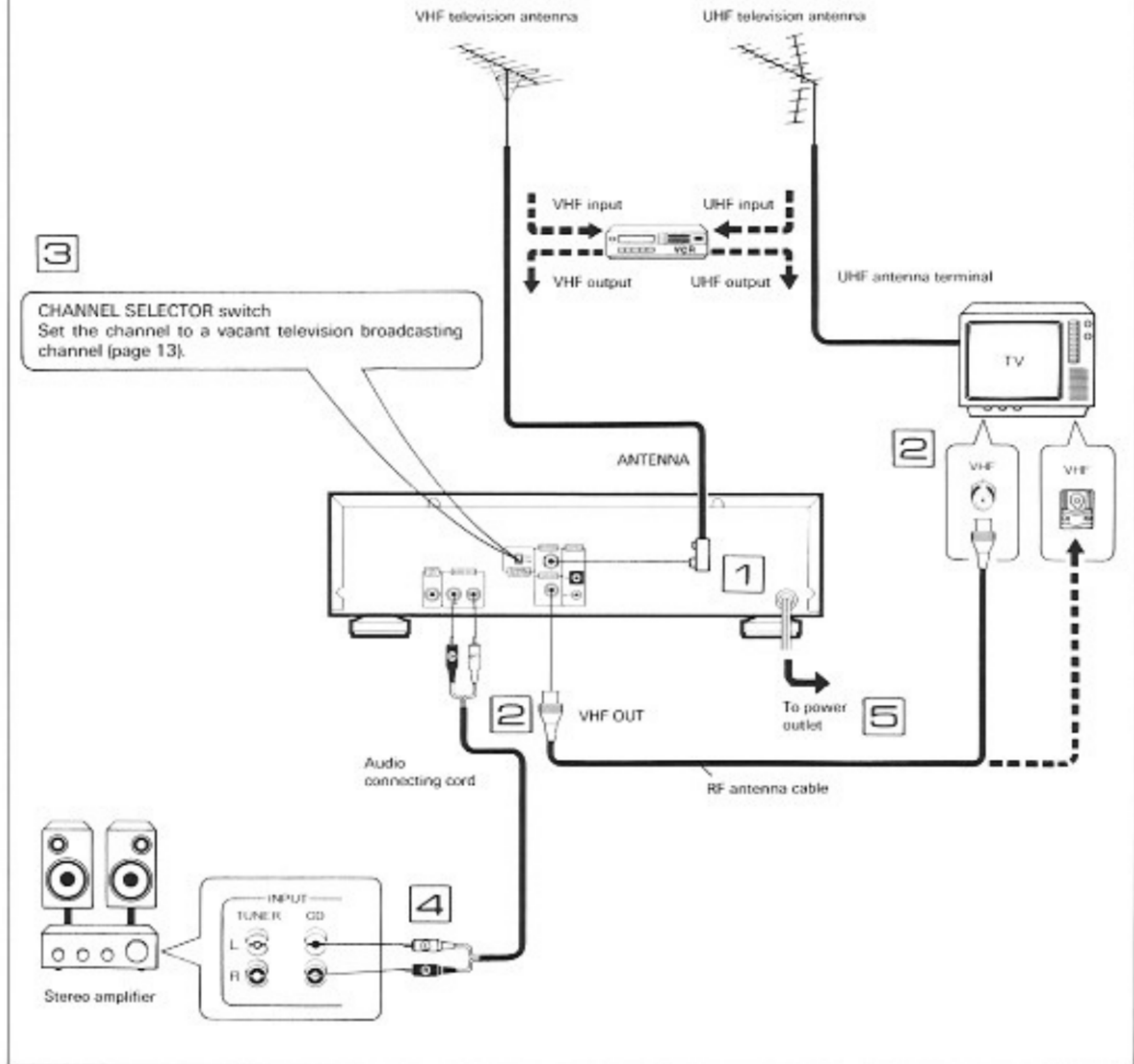
- Connect the VIDEO OUT jack of the player to the video input jack of the monitor television.
- Connect the AUDIO OUT jacks to the stereo amplifier AUX, CD or other jacks, except the PHONO input jacks. The television speakers can also be used by connecting the television audio input jacks and the player AUDIO OUT jacks, however connection to a stereo amplifier is recommended to obtain superior audio playback quality for Compact Discs and LaserVision Discs. Do not change the television antenna and VCR connections.

- Combined system control is possible when a Pioneer television and audio/video stereo receiver are connected. Refer to page 14 for an explanation of the connection procedure.

## USING TELEVISION WITHOUT AUDIO AND VIDEO JACKS

CLD 1070, regular television, stereo system, (VCR)

The numbers are explained on the next page. Make the connections in this order.



When the sound from a LaserVision Disc or Compact Disc is output from a television speaker it becomes monaural sound. (This is the same as stereo television).

**NOTE:**

- *Stripe patterns may appear when a LaserVision Disc is played on a television. Move the antenna cable away from the power cord to avoid this.*

## 1 VHF TV ANTENNA CONNECTION

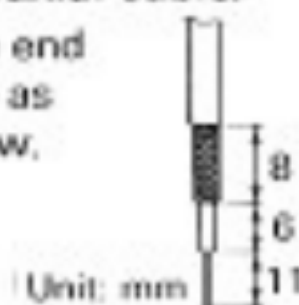
Detach the VHF antenna cable from the VHF antenna terminal of your TV set, and connect the cable to the ANTENNA terminal on the player.

If the end of the cable does not match the ANTENNA terminal, attach the accessory antenna adaptor, and plug the adaptor into the ANTENNA terminal.

### Attach the antenna adaptor

<For 75Ω coaxial cable>

- 1 Strip off the end of the cable as shown below.

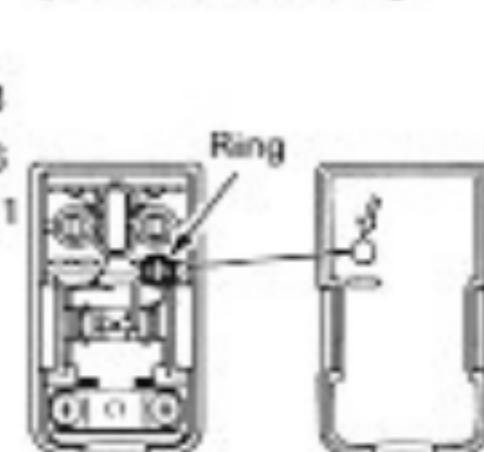


- 2 Remove the cover.



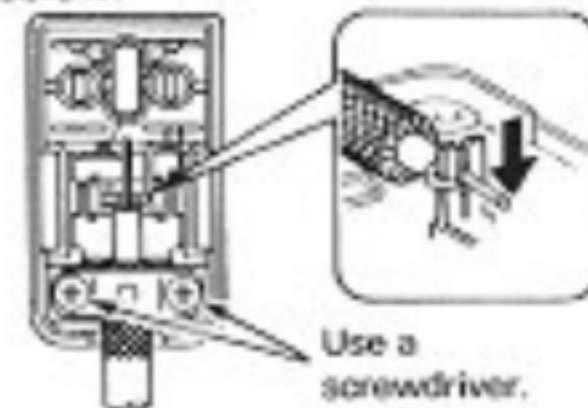
Press both sides at the same time.

- 3 Remove the ring.



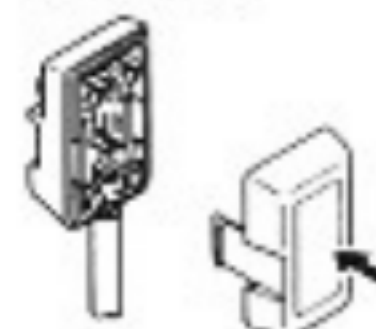
Place the removed ring on the holder on the cover.

- 4 Connect the cable as shown below.



Use a screwdriver.

- 5 Put the cover back on.

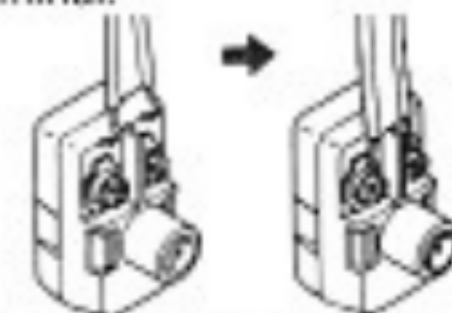


<For 300Ω parallel feeder>

- 1 Strip off the insulation of the feeder wire as shown.



- 2 Connect the wire to the 300Ω terminal.



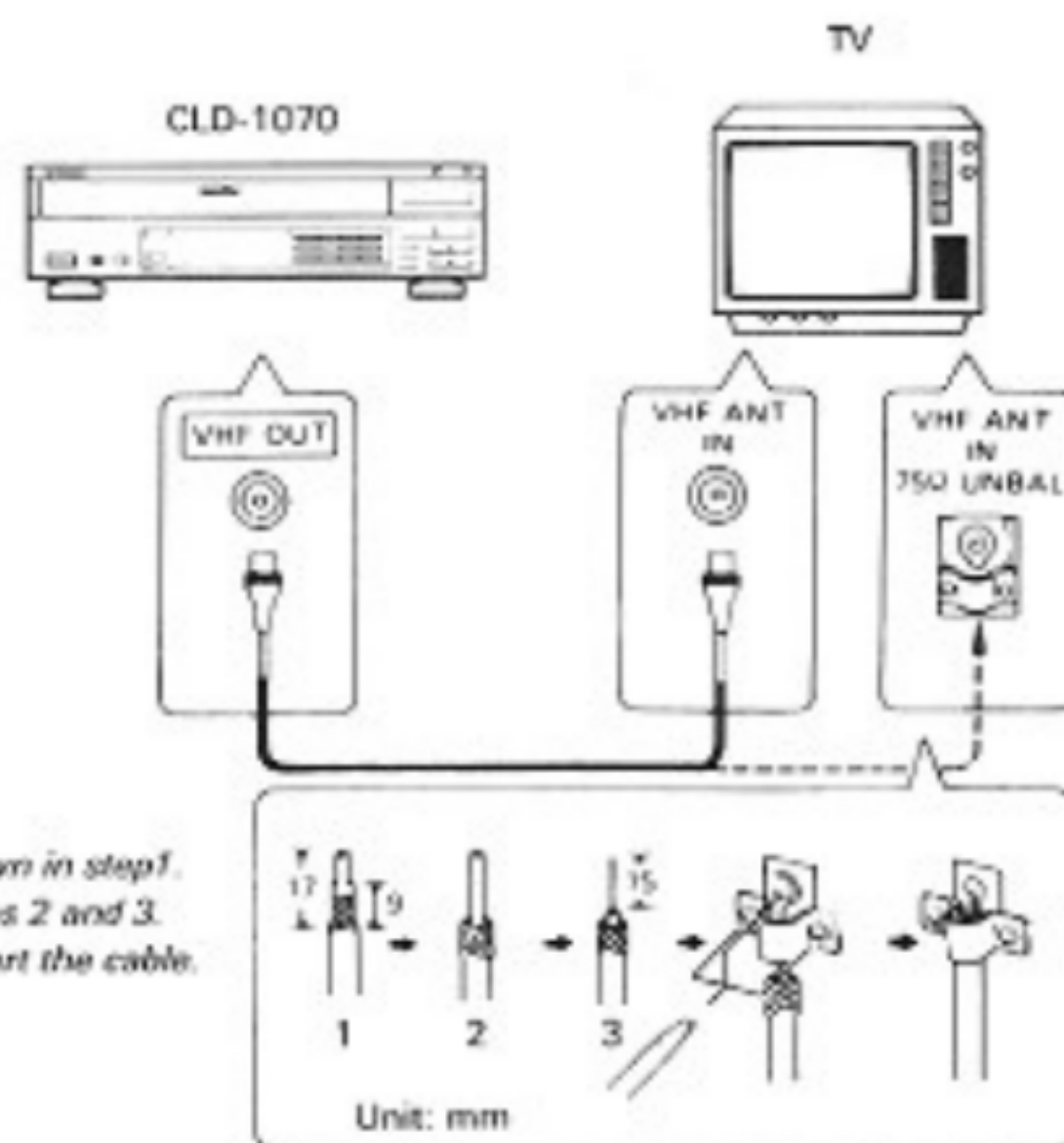
Loosen the screws, twist the wire around and tighten the screws.

## 2 CONNECTING TO YOUR TV SET

Connect the VHF OUT terminal of the player to the 75Ω VHF antenna terminal of your TV set with the accessory RF antenna cable. If the VHF antenna terminal of your TV set is not an F-type jack, modify one end of the cable.

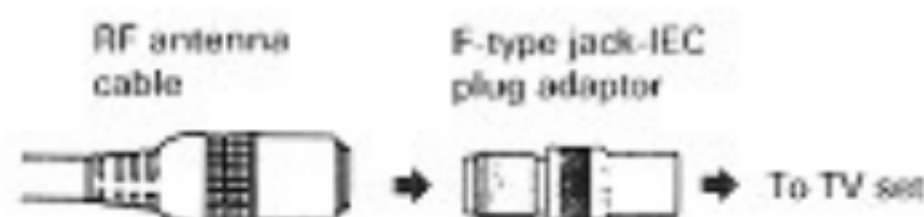
### NOTE:

- Push the plug in firmly. If the plug is not properly inserted, it may result in snow on the screen or noise.
- The shape of the VHF antenna input terminal and the method of connecting the antenna cable may differ from one TV set to another. For details, please refer to your TV instruction manual.



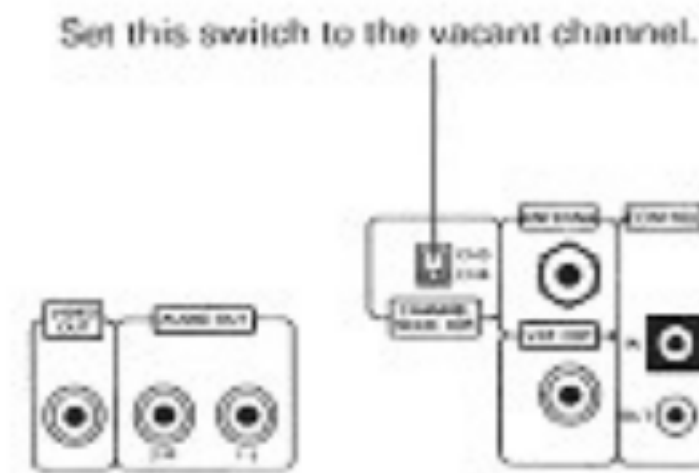
### [FOR U.S. MILITARY MODEL]

If the VHF antenna input terminal of your TV set is an IEC terminal, install the accessory F-type jack-IEC plug adaptor to one end of the RF antenna cable and connect it to the TV set.



### 3 SET THE CHANNEL SELECTOR SWITCH

If channel 3 is not being used for broadcast in your area, set the channel selector switch to channel 3. If channel 4 is not being used, set the switch to channel 4. The setting will be the disc playback channel.

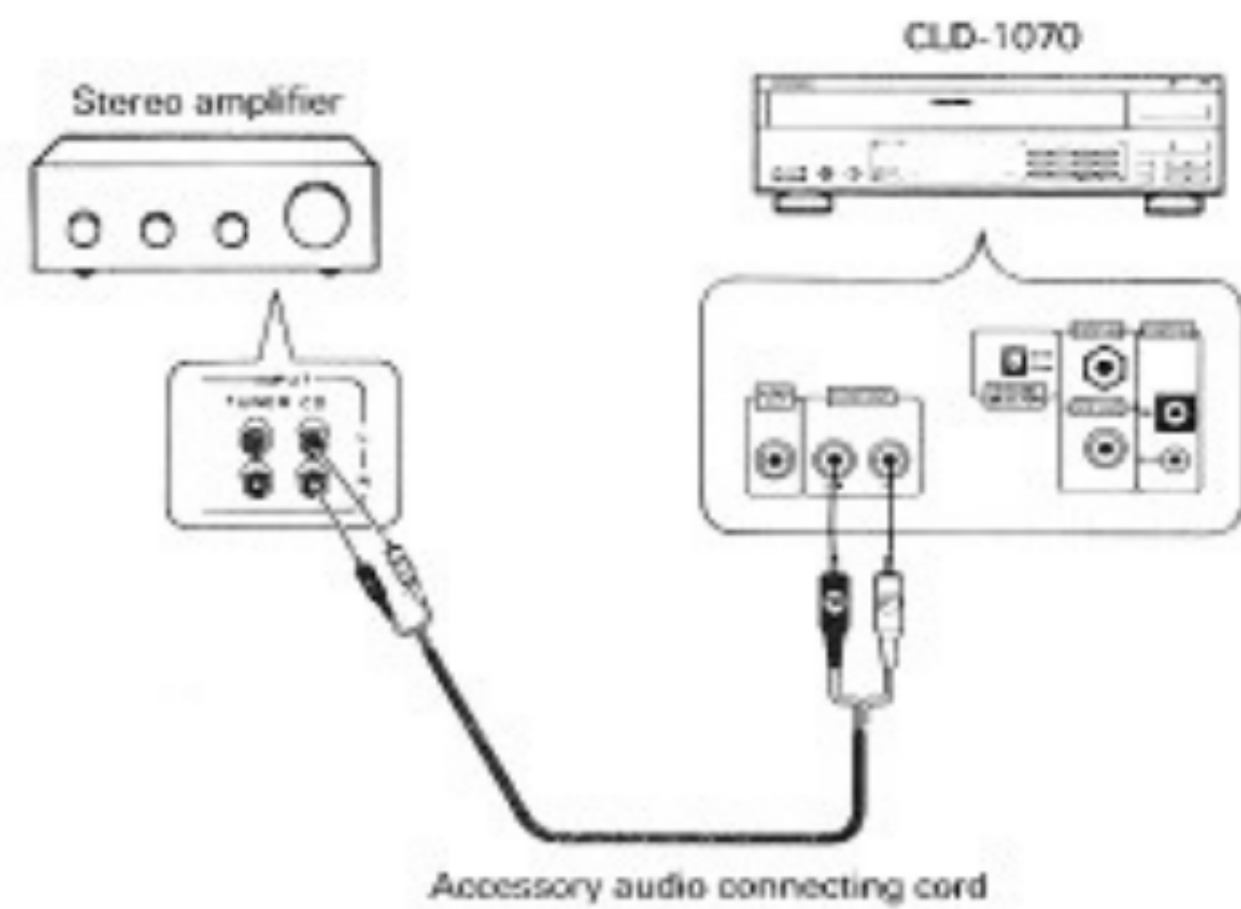


### 4 CONNECTING TO YOUR STEREO AMPLIFIER

Connect the AUDIO OUT jacks of the player to the AUX or CD input jacks of your stereo amplifier.

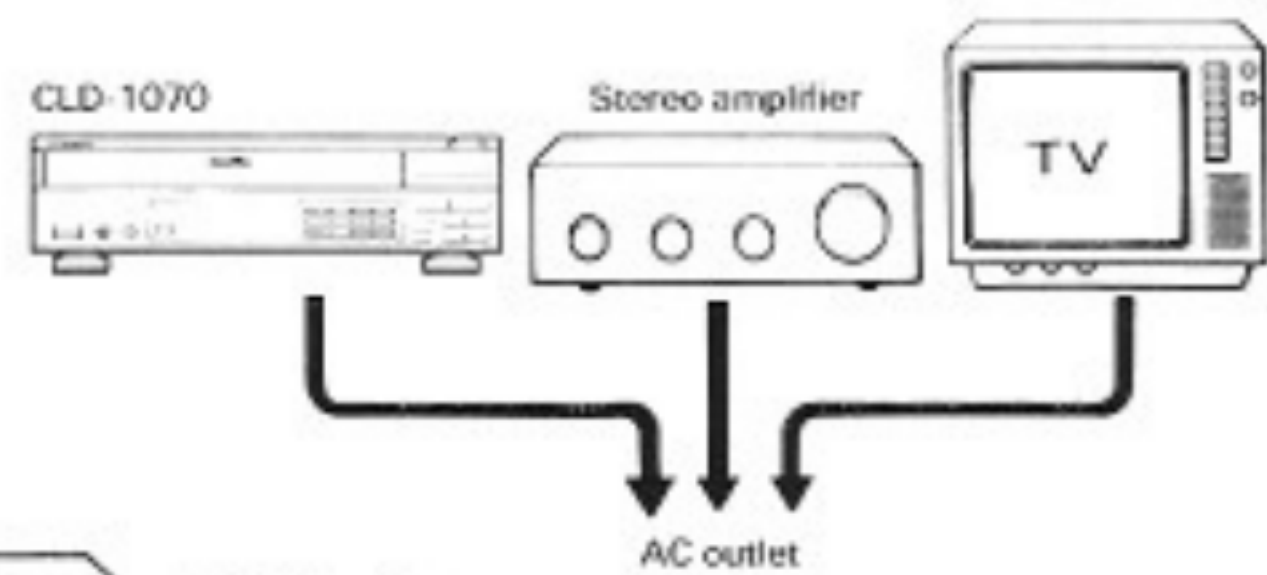
**NOTE:**

- Do not connect these terminals to your amplifier PHONO input jacks.

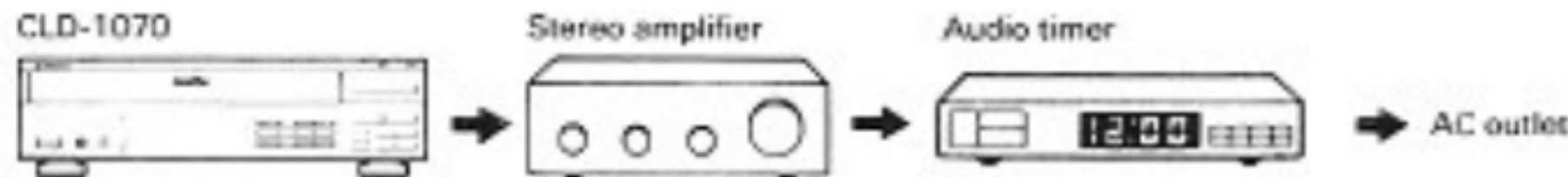


### 5 PLUG THE POWER CORDS INTO AC OUTLET

Plug the AC power cords of the player, stereo amplifier and TV set into an AC outlet.



#### TIMER CONNECTION



## SYSTEM REMOTE CONTROL CONNECTION

### WHEN COMBINED WITH OPTIONAL PIONEER PROJECTION MONITOR (or COMPONENT DISPLAY):

Connect the VIDEO OUT jack of the player to the video input jack of the projection monitor (or component display), and connect the AUDIO OUT jacks of the player to the audio input jacks of the projection monitor (or component display).

#### System Control

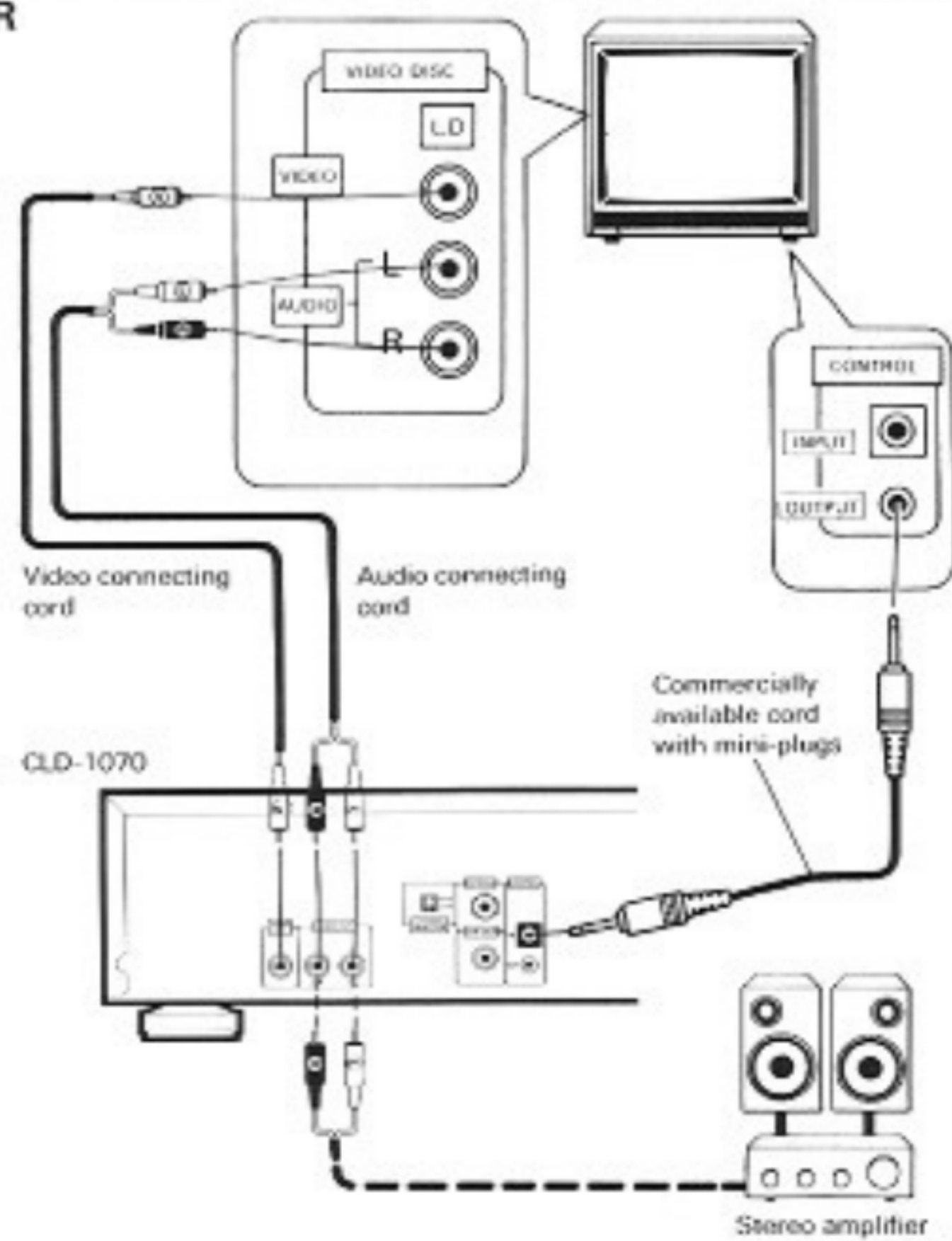
By connecting the CONTROL IN jack of the player to the remote jack of the projection monitor (or component display), the system can be controlled by the remote control unit of the player at the remote control sensor of the projection monitor (or component display).

- Use a commercially available cord with mini-plugs for the connection.


Please also refer to the operating instructions for the projection monitor (or component display).

#### NOTE:

When system control connections have been made, the player cannot be directly controlled by the remote control unit. To operate the player, aim the remote control unit at the projection monitor (or component display).



### PERFORMING SYSTEM CONTROL WHEN THE PLAYER IS COMBINED WITH A PRODUCT THAT HAS THE MARK:

System control can be performed when the player is combined with an AV receiver or AV master amplifier (optional), which can provide centralized control of Pioneer products with the  mark.

Connect the VIDEO OUT jack of the player to the video disc video input jack of the stereo receiver (or amplifier) and connect the AUDIO OUT jacks of the player to the audio input jacks of the stereo receiver (or amplifier).

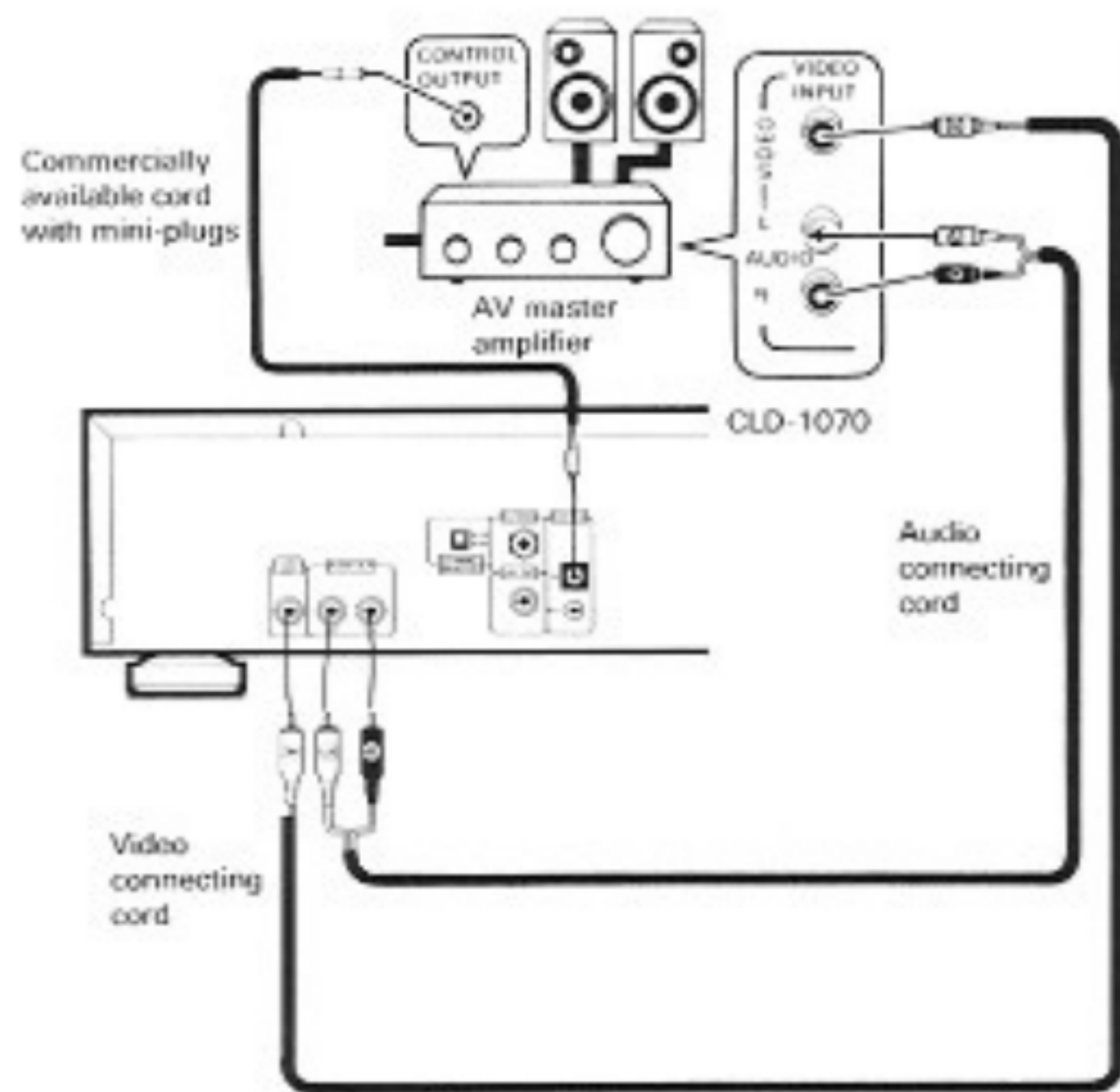
Connect the CONTROL OUT (OUTPUT) jack of the stereo receiver (or amplifier) to the CONTROL IN jack of the player.

- Use a commercially available cord with mini-plugs for the system control connection.

For details concerning the connection and operation methods, please refer to the operating instructions for your stereo receiver (or amplifier).

#### NOTE:

When a connecting cord has been connected to the CONTROL IN jack, direct control of the player with the remote control unit is not possible. Operate the player with the remote control unit by aiming it at the AV receiver or AV master amplifier.

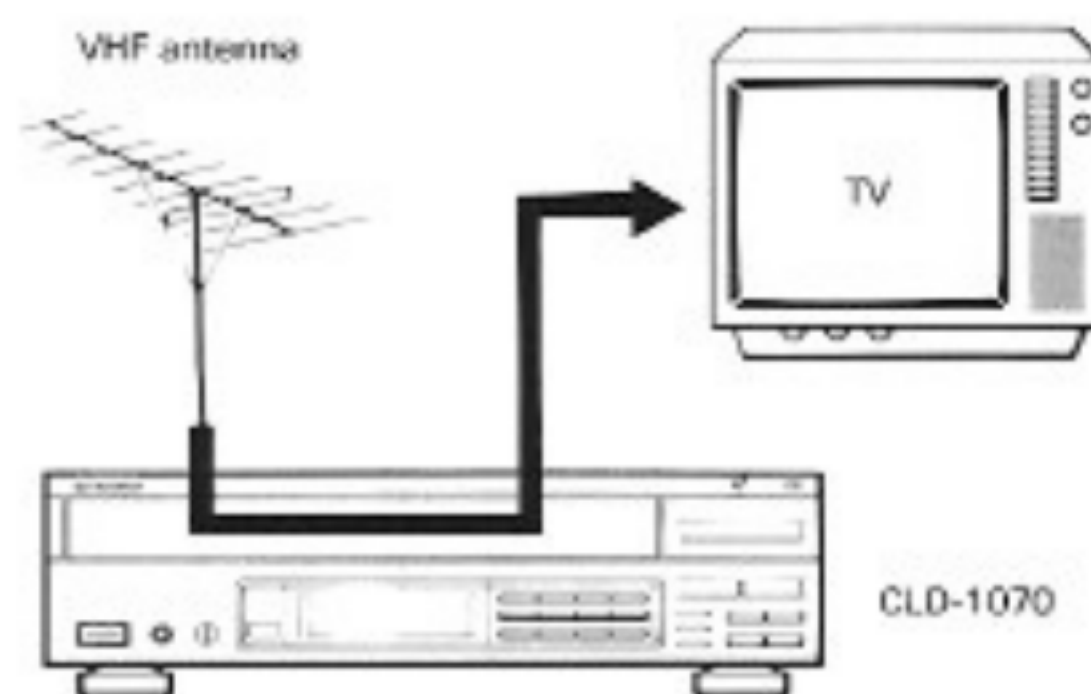


## TO WATCH A TV BROADCAST

When a VHF TV antenna has been connected to your TV via the player's ANTENNA terminal, in accordance with the connection example given in these instructions (page 11), TV broadcasts can be received normally by proceeding in one of the following two ways:

- **By switching power of the player off**  
Before switching off power, press the STOP/OPEN button to stop disc playback.
- **By pressing the TV/LDP key on the remote control, TV mode can be selected.**
  - \* To return to disc playback, press the TV/LDP key again.

In either case, the signals from the VHF antenna are fed to the TV set via the player.



Press the TV/LDP key on the remote control unit, or turn off power.

### **NOTE:**

*In an area where the TV broadcast signal is weak, slanting stripes may appear on the TV screen when the TV/LDP key is pressed to receive a TV broadcast. This does not always indicate a problem. The stripes should be eliminated by turning power of the player off.*

*In such cases, or when you wish to watch TV for a long period of time, we recommend that you turn off the power switch of the player.*

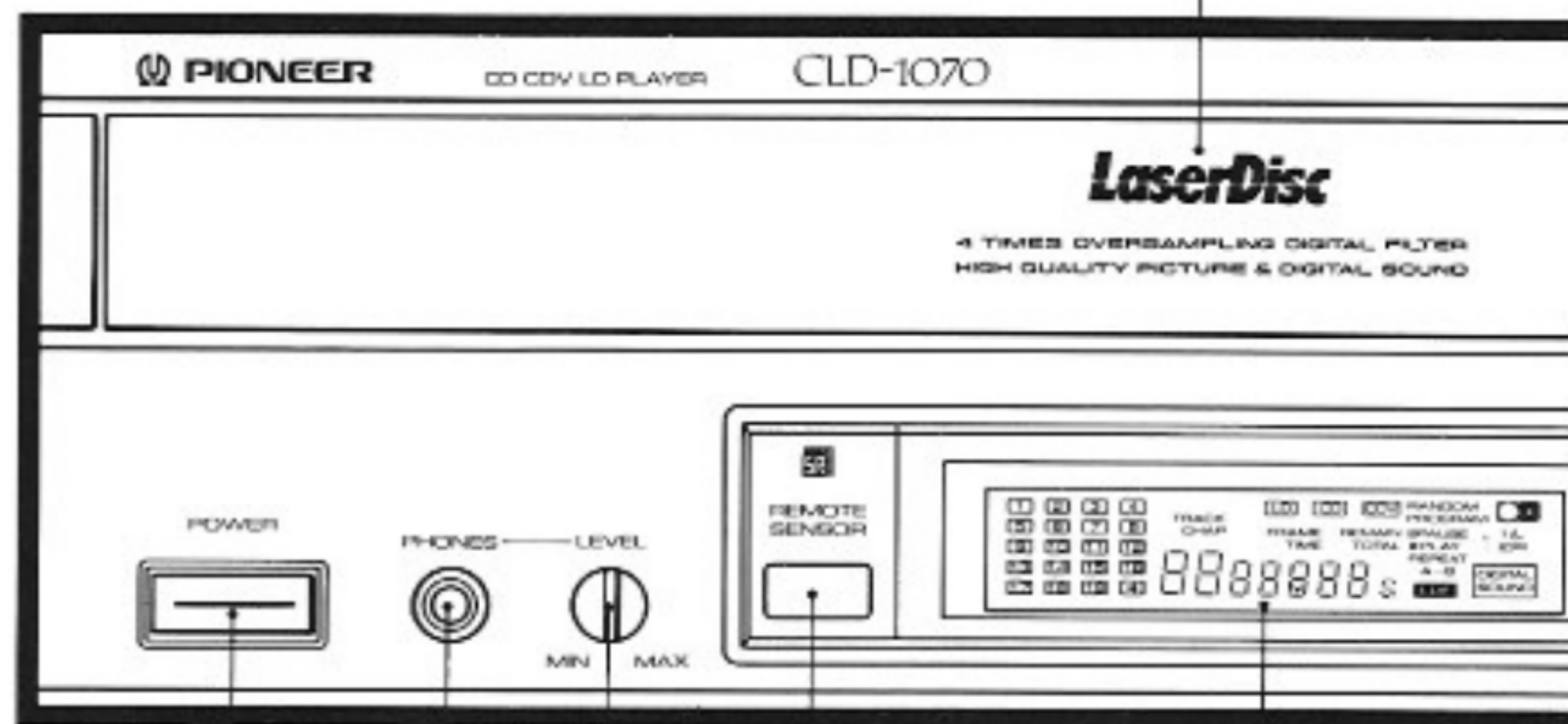
### **When using a TV set with video and audio input jacks**

When using the video input jack of your TV, switch to the broadcast using the controls of your TV.

## FRONT PANEL FACILITIES

A detailed description is provided on the indicated page(s).

Door/Disc table ... p. 24



### POWER switch

Press to turn power to the unit ON and OFF.  
If there is disc in the unit when power is turned ON,  
playback will begin automatically.

### PHONES jack ... p. 24

### PHONES LEVEL control

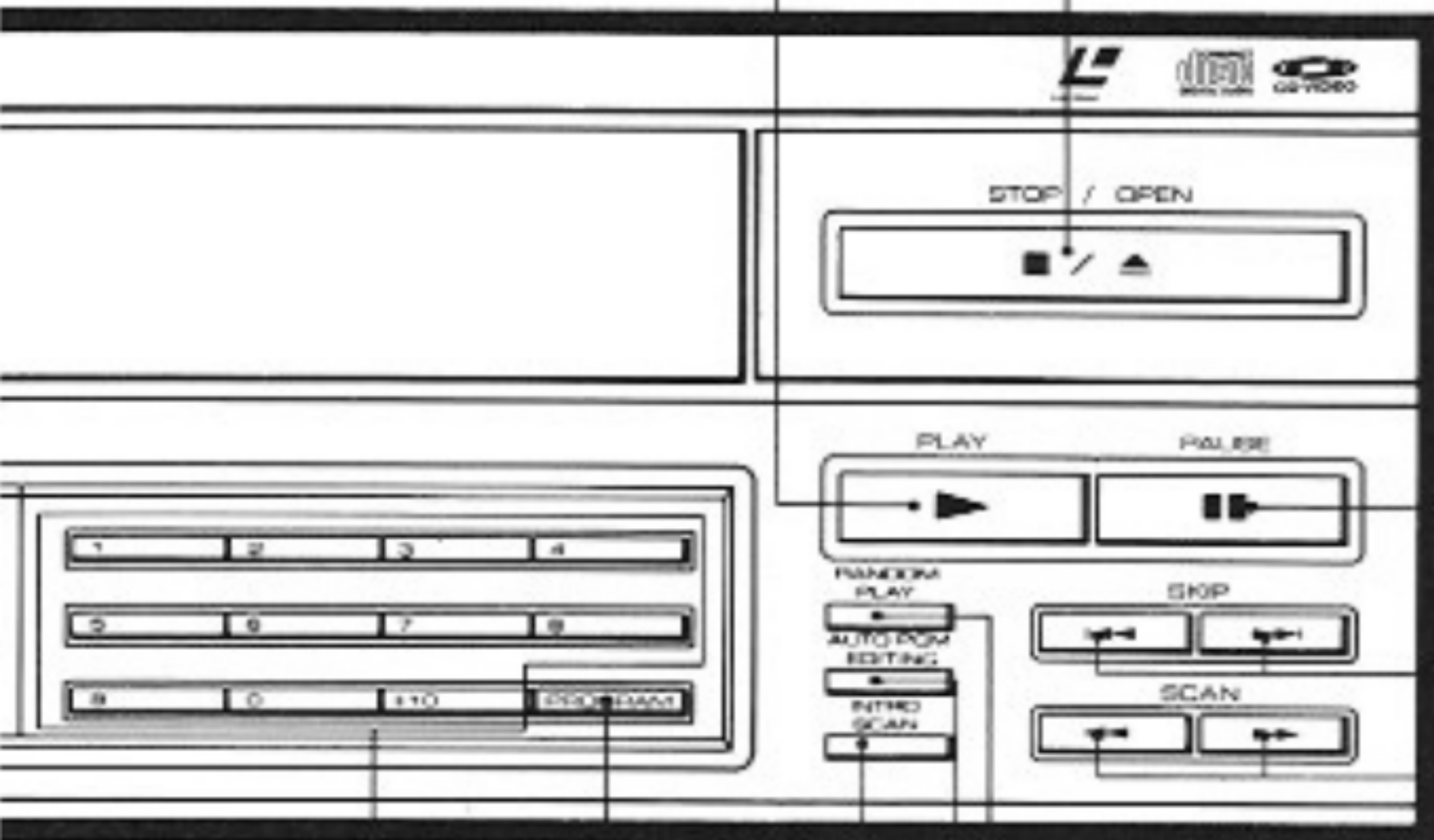
Turn this control in the "MAX" direction to increase  
the output level from the PHONES jack. Turn this  
control in the "MIN" direction to decrease the output  
level from the PHONES jack.

### REMOTE SENSOR ... p. 20



PLAY button ... p. 25

STOP/OPEN button ... p. 24



PAUSE button ... p. 26

SKIP buttons ... p. 30, 38

SCAN buttons ... p. 29, 38

RANDOM PLAY button ... p. 40

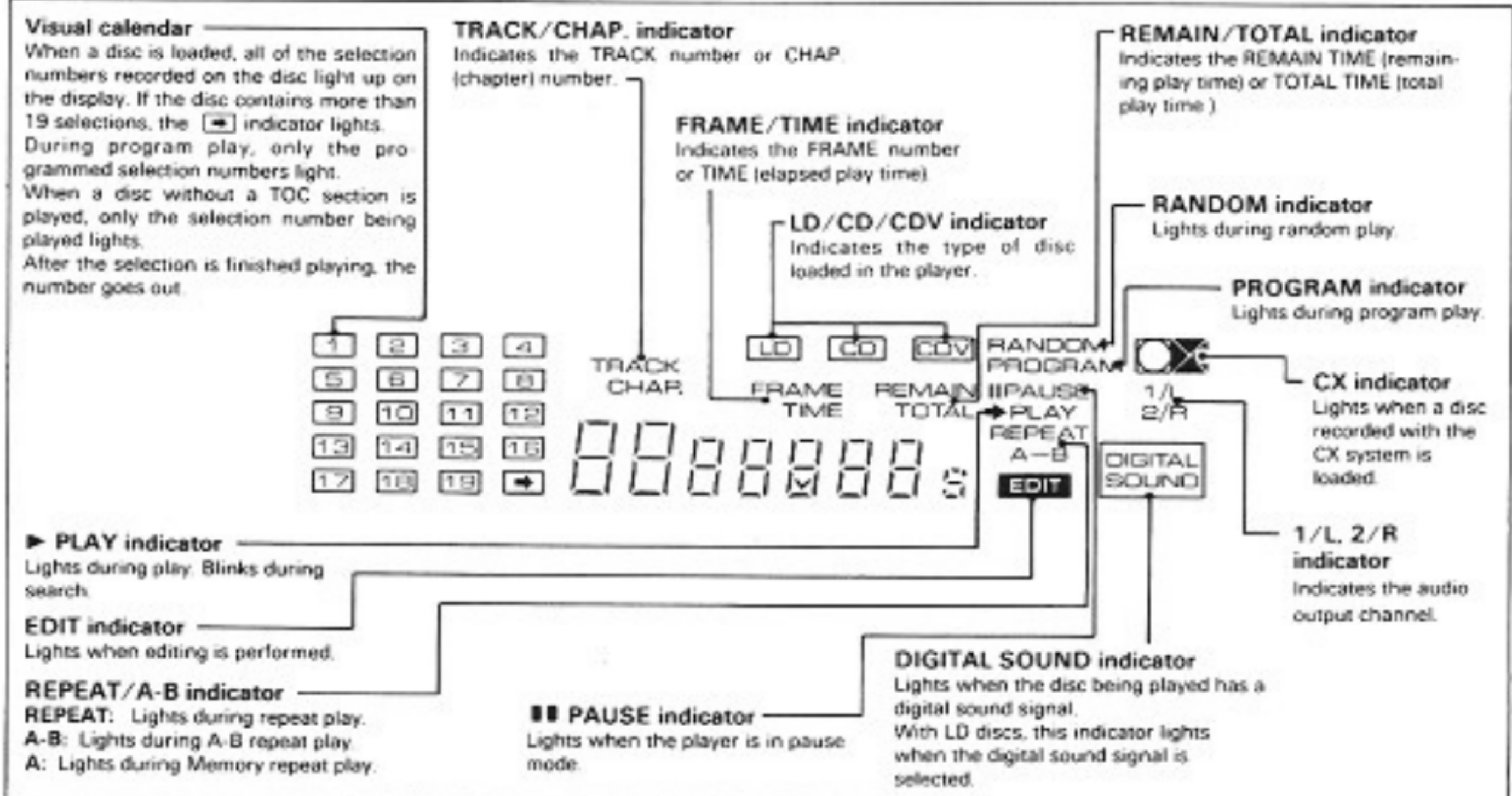
AUTO PGM EDITING button ... p. 41

INTRO SCAN button ... p. 33, 39

PROGRAM button ... p. 36

Digit buttons ... p. 30

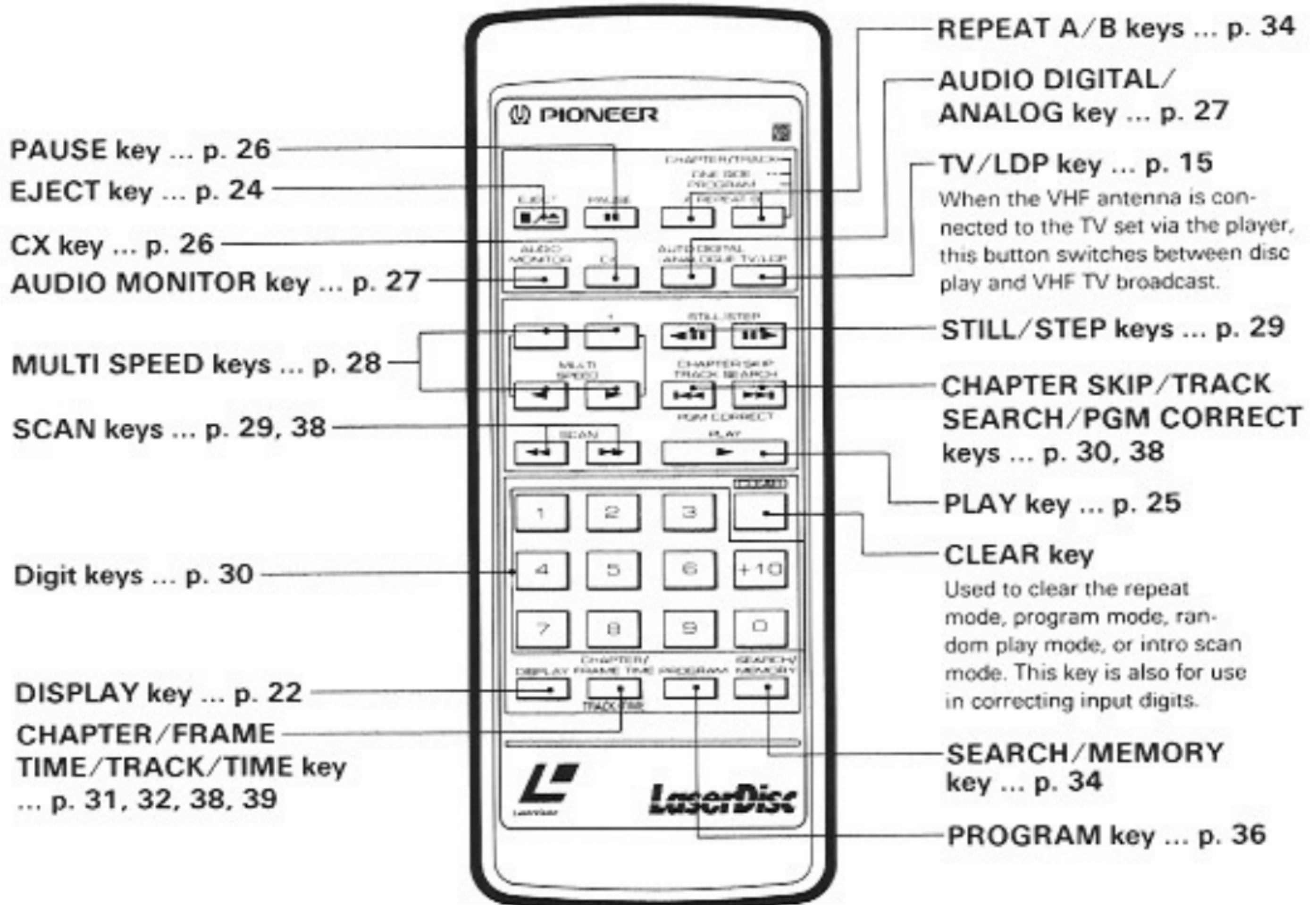
### Display window



# REMOTE CONTROL UNIT FACILITIES

A detailed description is provided on the indicated page(s).

The buttons with the same names or marks on the front panel of the player unit control the same operations as the corresponding keys on the remote control unit.



## REAR PANEL FACILITIES


### ANTENNA terminal (75Ω F-type jack)

Connect the coaxial cable (75Ω) from the VHF TV antenna to this terminal.

### CHANNEL SELECTOR (CH3/CH4)

This switch is for changing the channel of the internal VHF converter. Set to the channel which is not used for TV broadcasts in your area.

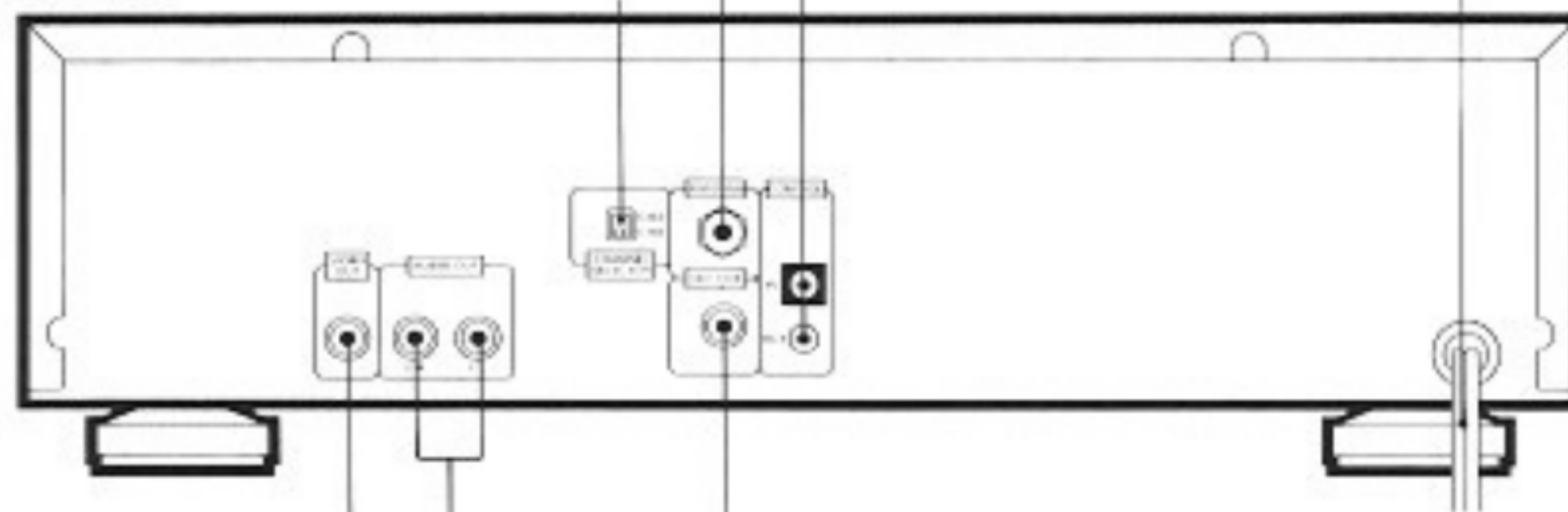
### CONTROL IN and OUT jacks (miniature phone jack)

These jacks are for control cords, when the player is used together with other Pioneer products with the Pioneer  mark.

### Power cord

Connect this to a power outlet.

CLD-1070



For the VOLTAGE SELECTOR, refer to the front cover.

### VHF OUT terminal (75Ω F-type jack)

Connect this terminal to your TV set's VHF antenna terminal.

### AUDIO OUT jacks (RCA jacks)

These jacks output Compact Disc audio, Compact Disc with Video audio, LaserVision Disc audio (analog) and the audio for LaserVision with Digital Sound Discs. Selection of either digital or analog sound can be made by operating a key on the remote control unit.

Connect these terminals to the CD or AUX input jacks of your stereo amplifier.

Do not connect them to your amplifier PHONO input.

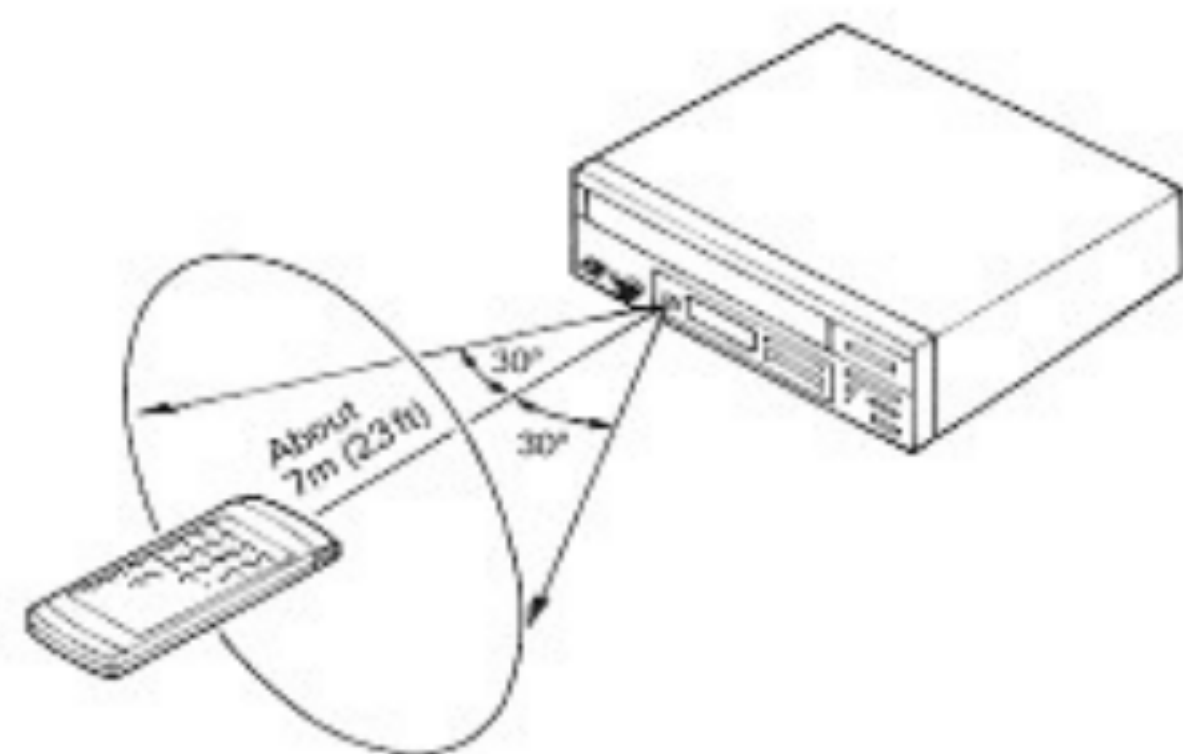
### VIDEO OUT jack (RCA jack)

Connect this jack to a TV monitor or a TV set which is equipped with a video input jack.

## REMOTE CONTROL OPERATIONS

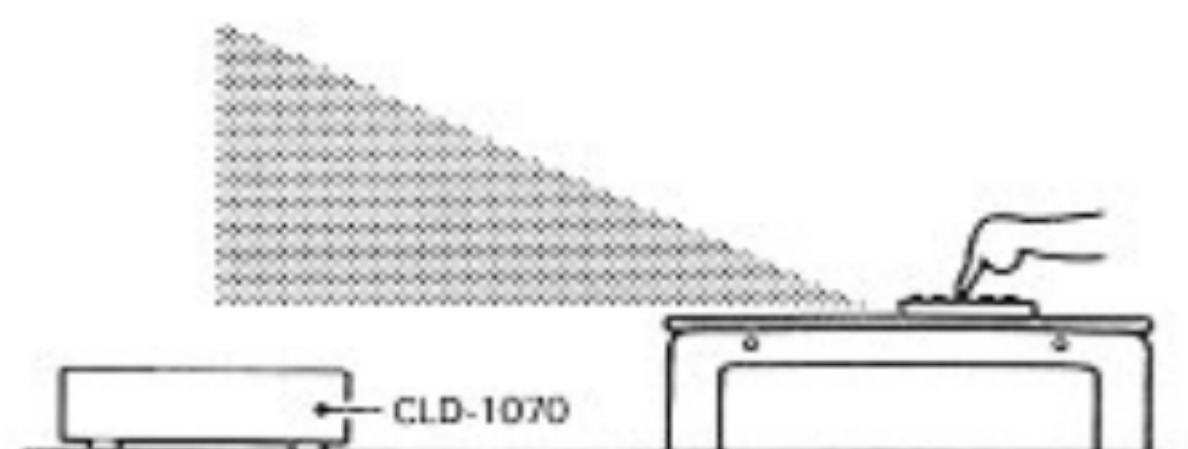
When operating the remote control unit, point the unit's infrared signal transmitter at the remote control receiver (REMOTE SENSOR) on the front panel of the player. The remote control unit can be used within a range of about 7 meters (23 feet) from the remote sensor, and within angles of up to about 30 degrees.

If a plug is connected to the CONTROL IN terminal at the rear of the player, remote control operations cannot be done with the remote control unit aimed at the player's remote control sensor. Aim the remote control unit at the AV master amplifier or the component display's sensor instead.



### NOTE FOR USING THE REMOTE CONTROL UNIT

- If there is any obstacle between the remote control unit and the player, or if the unit is held at too large an angle relative to the front panel of the player, the signal from the remote control unit will fail to reach the remote sensor.



- If the player is operating in the vicinity of other appliances generating infrared rays, or if other remote control devices using infrared rays are used near the player, the player may operate improperly. Conversely, if the player's remote control unit is operated in the vicinity of other appliances which use an infrared remote control device, the other appliance may operate improperly. If this should happen, change the place of installation so that improper operation does not occur.
- If the range of operation of the remote control unit becomes too short, replace the batteries.
- When the unit is not to be used for a long period of time (more than one month), remove the batteries to prevent them from leaking inside the compartment. If leakage occurs, wipe up the liquid inside the compartment and replace the batteries with new ones.
- Do not place books or other objects on the remote control unit, since they might depress the buttons and run down the batteries.

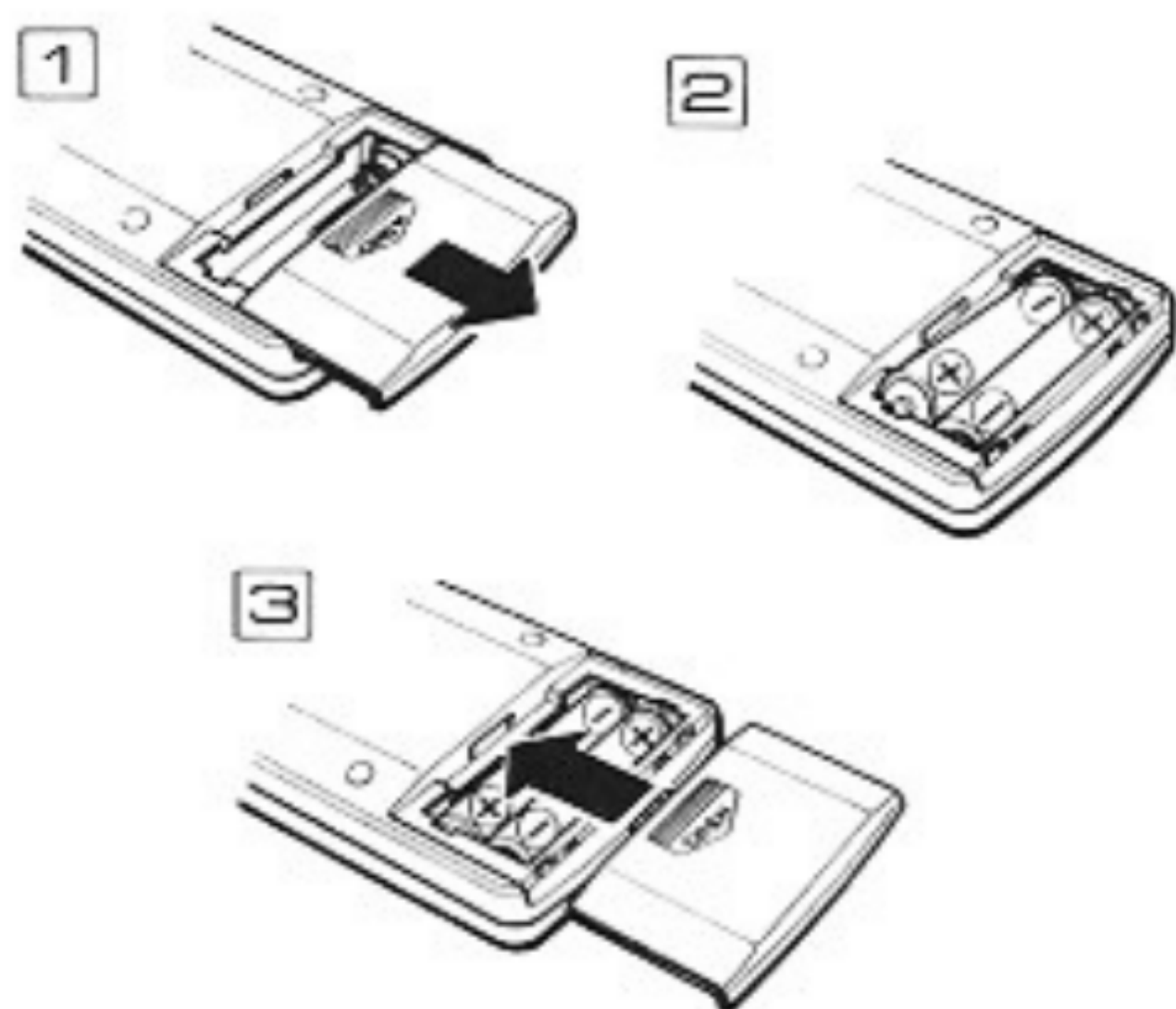
## PUTTING BATTERIES INTO THE REMOTE CONTROL UNIT

1. Open the battery compartment cover on the back of the remote control unit. The cover should open easily if you press on it with your thumb while sliding it in the direction of the arrow.
2. Take out the two accessory size "AAA" (IEC R03) dry batteries, and insert them into the battery compartment in accordance with the display inside the compartment.
3. Close the cover of the battery case.

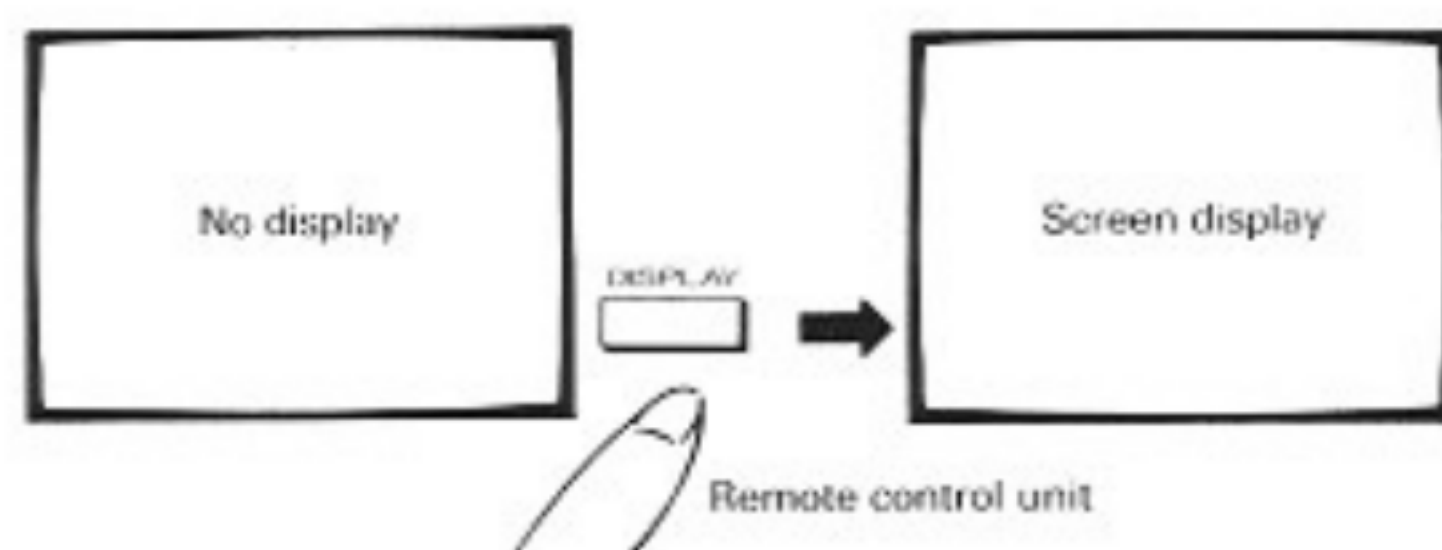
Incorrect use of batteries may lead to leakage or rupture.

Always be sure to follow these guidelines:

- A. Always insert batteries into the battery compartment correctly matching the positive (+) and negative (-) polarities, as shown by the display inside the compartment.
- B. Never mix new and used batteries.
- C. Batteries of the same size may have different voltages, depending on brand. Do not mix different brands of batteries.



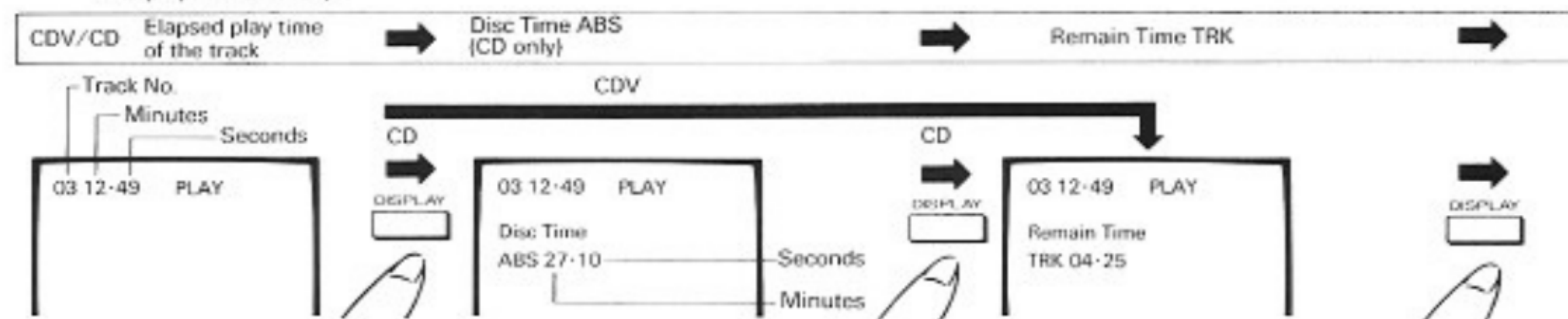
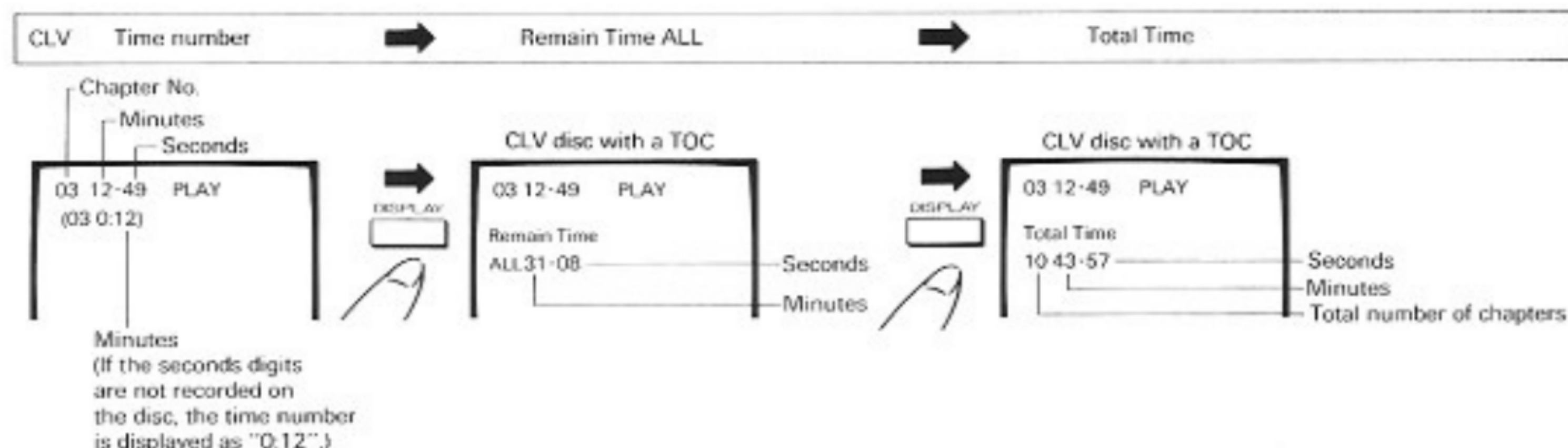
## DISPLAY SWITCHING



Information regarding the operations being carried out can be displayed on the screen of the monitor TV. When the DISPLAY key on the remote control unit is pressed the first time, the screen is displayed.

### With LD discs containing a TOC ...

Each time the DISPLAY key is pressed, the display changes in the following order: time/frame number (elapsed play time/frame from the beginning of the disc) → Remain Time ALL (remaining play time of the disc) → Total Time (total play time of the disc) → display off.



### Other displays

Lights - Flashes	Function	Lights - Flashes	Function
OPEN	Opening of the table	Repeat Random	Random repeat
CLOSE	Closing of the table	Repeat Program	Program repeat
STOP	Stop mode	Program	Program mode
PLAY	Play mode	Step-	Program step
PAUSE	Pause mode	Random	Random play
STILL	Frozen picture	Editing	Edit mode
1/2, 1/4...	Slow-speed play	Intro	Intro scan mode
x2, x3	High-speed play	Digital	Digital signal setting
CLV	CLV play	Analog	Analog signal setting
Video	Video part search	Stereo	Stereo
Audio	Audio part search	1/Lch	Main audio/Left channel
Repeat Memory	Memory repeat	2/Rch	Sub audio/Right channel
Repeat A-B	A-B repeat	CX ON	CX noise reduction system ON
Repeat Side-A (B)	One side repeat	CX OFF	CX noise reduction system OFF
Repeat Chapter (Track)	Chapter/track repeat		

\* During CD or CDV (audio part) playback, the visual calendar is displayed on the screen with a blue background.

**With LD discs having no TOC...**

Each time the DISPLAY key is pressed, the display changes in the following order: time/frame number → display off.

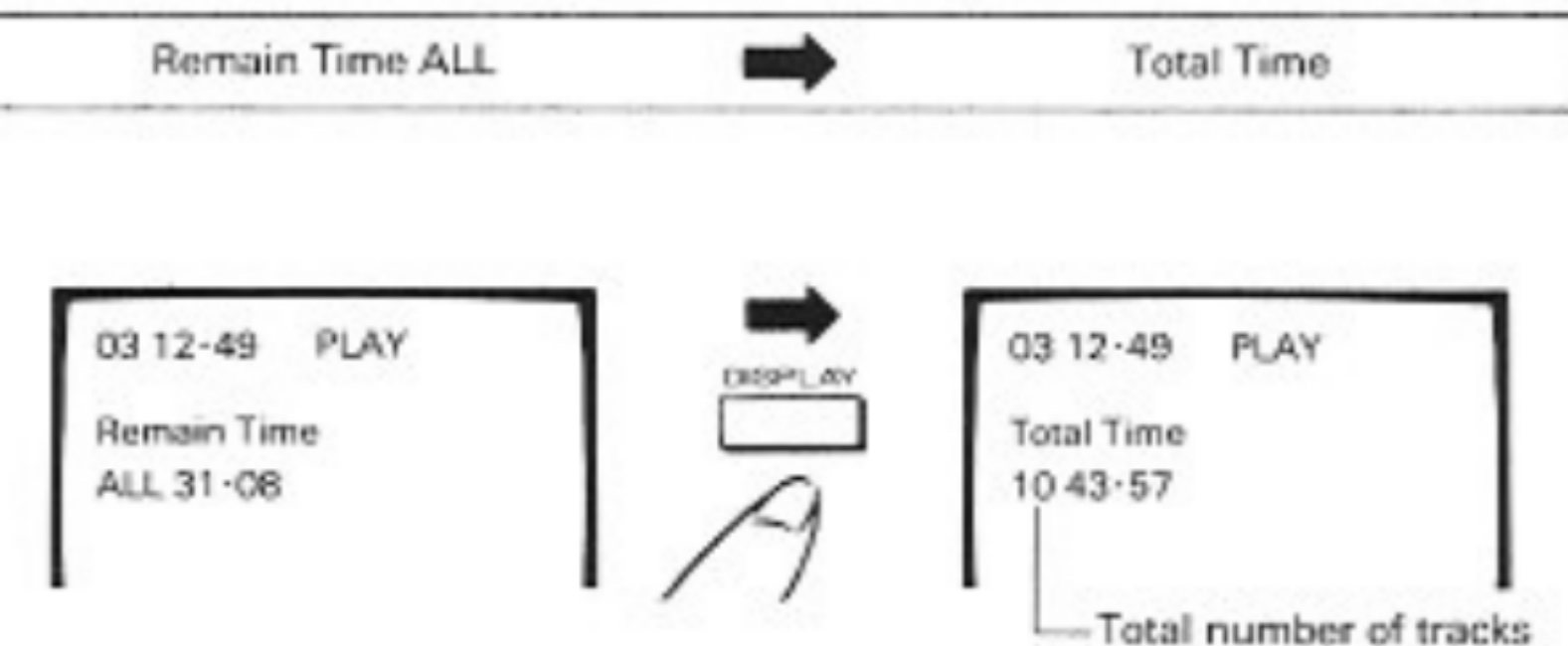
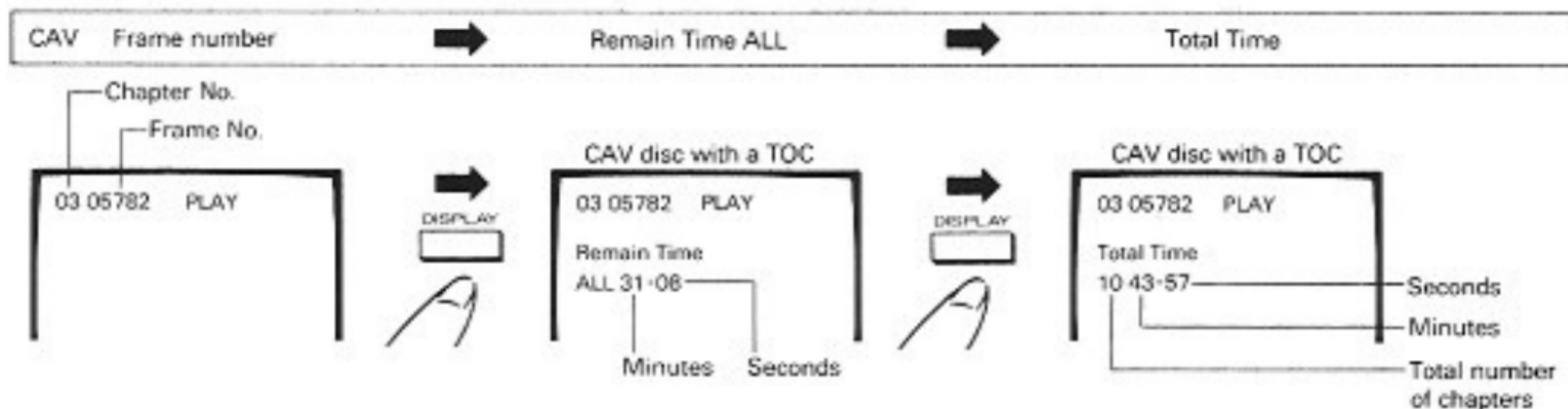
**With CDV discs...**

Each time the DISPLAY key is pressed, the display changes in the following order: elapsed play time of the track being played → Remain Time TRK (remaining play time of the track being played) → Remain Time ALL (remaining play time of the video or audio part being played) → Total Time (total play time from the beginning of the video or audio part being played).

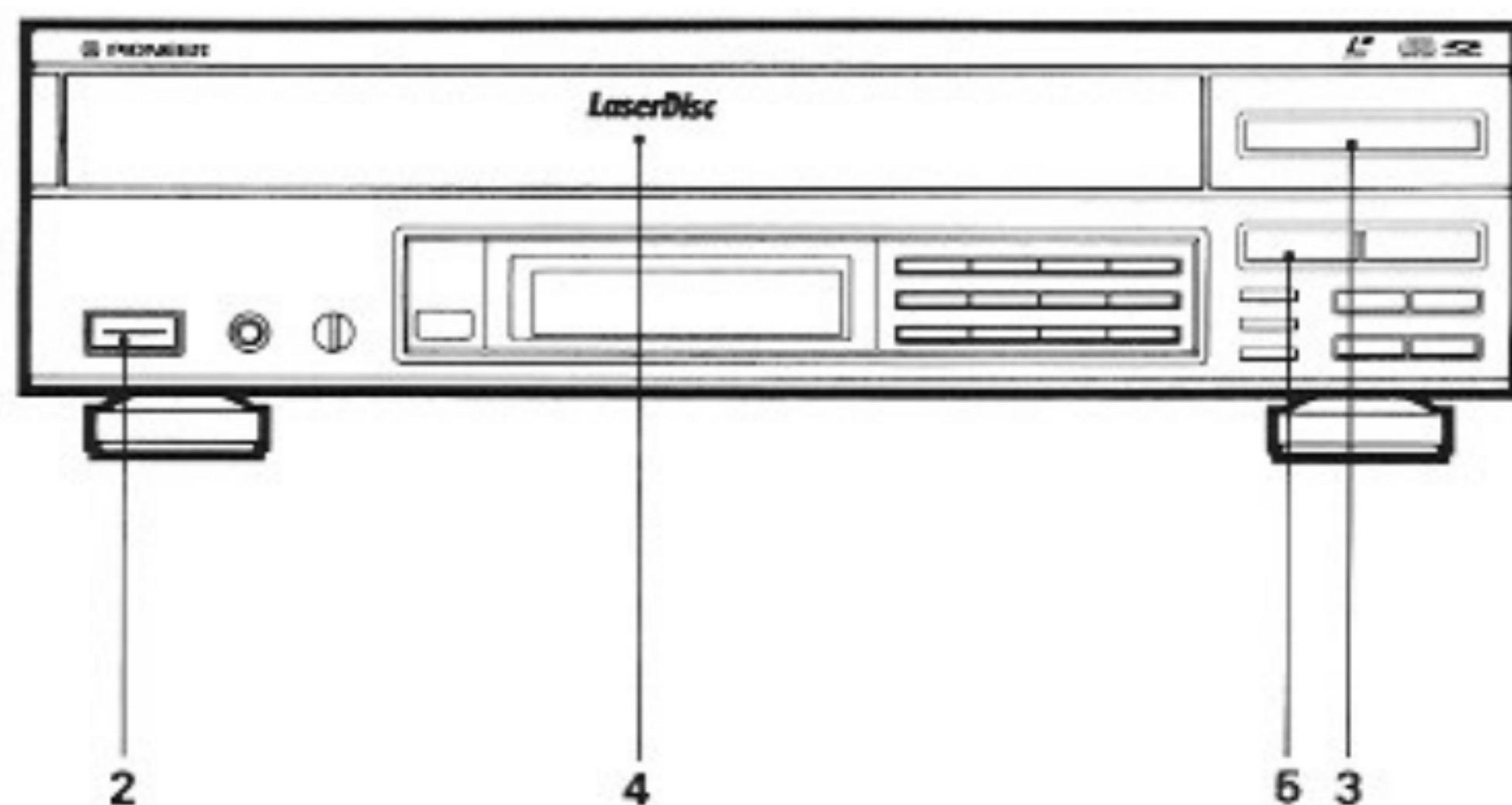
**With CD discs...**

Each time the DISPLAY key is pressed, the display changes in the following order: elapsed play time of the track being played → Disc Time ABS (elapsed play time from the beginning of the disc) → Remain Time TRK (remaining play time of the track being played) → Remain Time ALL (remaining play time of the disc) → Total Time (total play time from the beginning of the disc).

- These data are also displayed on the display window of the front panel.



## TO VIEW OR LISTEN TO LD/CDV/CD



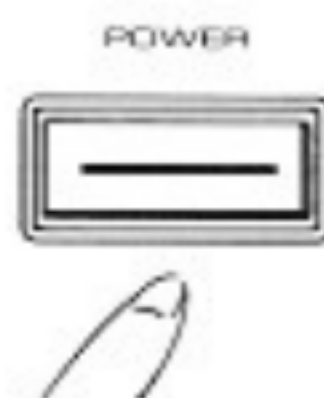
**1 Switch on the power to the monitor TV and/or audio system.**

Set the TV to the video-use channel (the vacant channel in your area) or select the appropriate video signal input. (See pages 13 and 15.)

**When a stereo system is used for audio listening:**

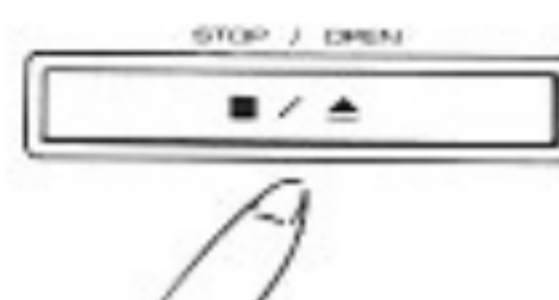
Turn on the power of the amplifier, and set its input selector to the proper position for listening to the CLD-1070, such as "CD".

**2 Turn on the power to the CLD-1070.**



**3 Open the disc table.**

Front panel



or

Remote control unit



### Display during playback



**To play and listen to a disc without connecting this unit to an audio system:**

Plug headphones into the PHONES jack on the front panel of this unit and adjust the volume with the LEVEL control.

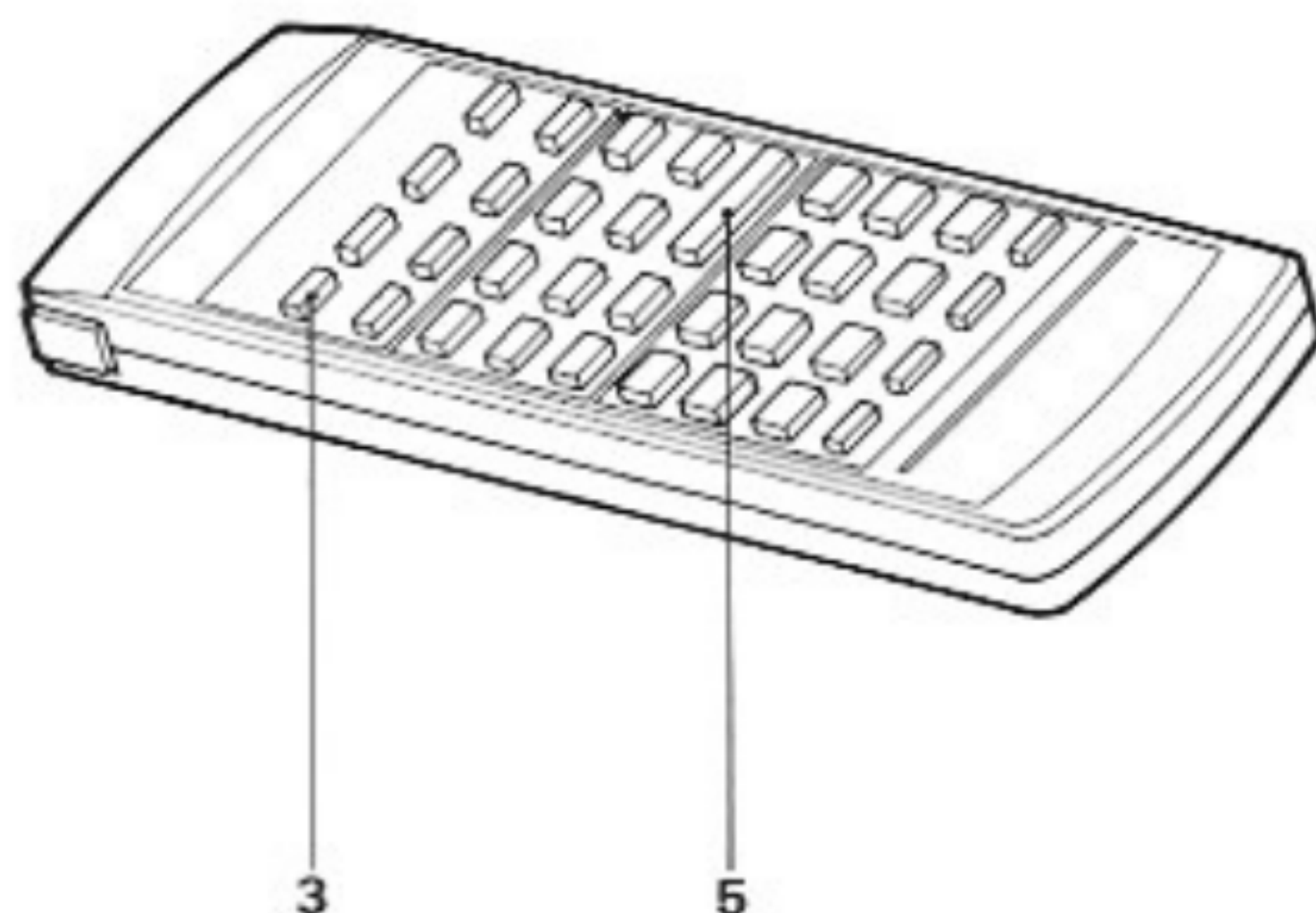
**If the picture is not clear:**

Confirm that the CHANNEL SELECTOR switch on the rear panel of the player is set to the same channel as the TV channel used for disc playback.

1. Set your TV set to the channel (3 or 4) used for disc playback.
2. Start disc playback.
3. Adjust your TV set so that a clear picture is obtained.

\* If stripes or noise appears on the screen, place the VHF antenna cable further away from this unit's power cord.

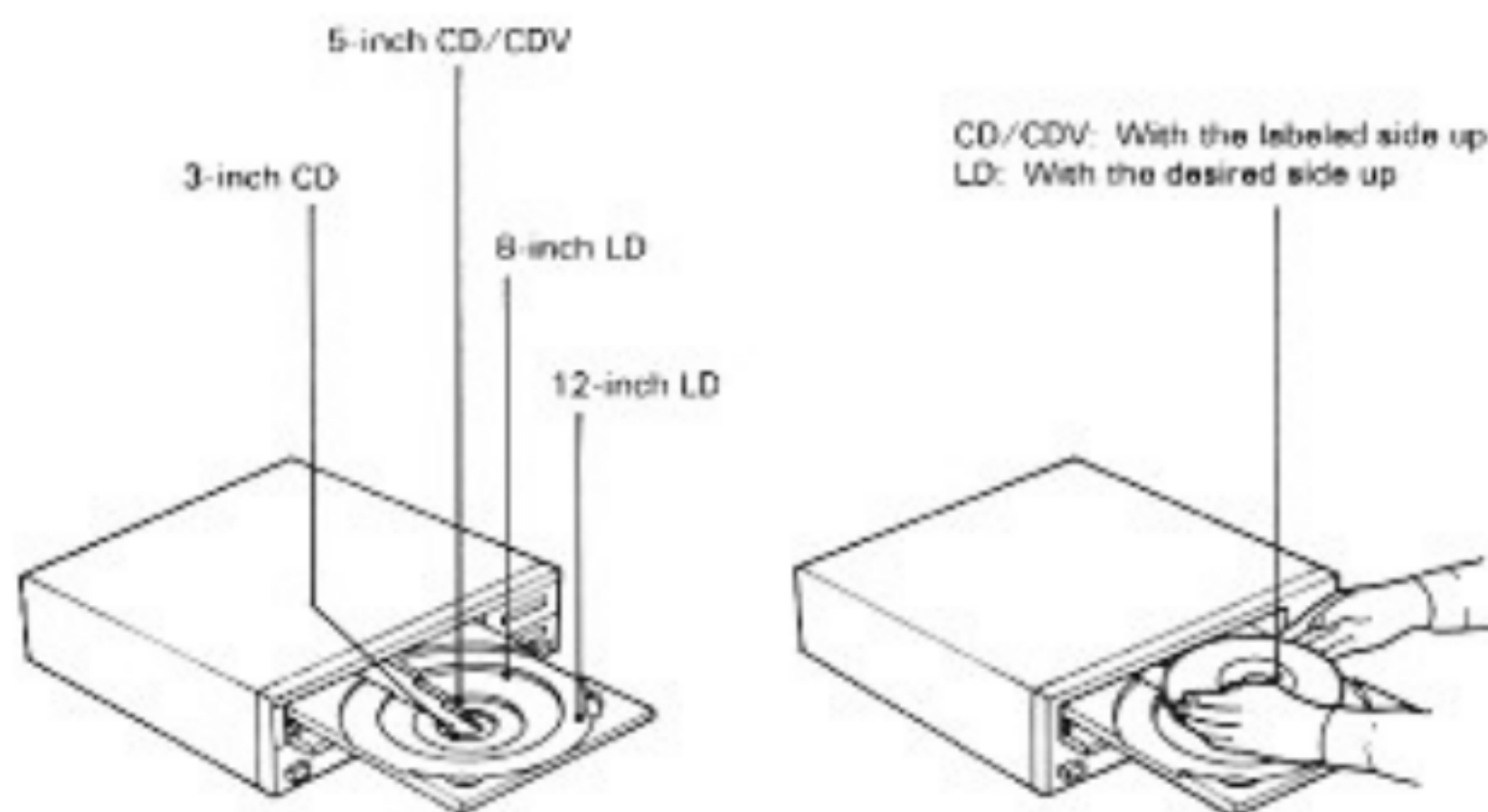




The buttons with the same names or marks on the front panel of the player unit control the same operations as the corresponding buttons on the remote control unit.

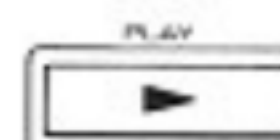
#### 4 Place a disc on the table.

When placing a disc on the table, set the disc so that its edge is properly aligned with the appropriate guide on the table, as shown in the figure.



#### 5 Start playback.

Front panel



or

Remote control unit



- Playback of CDV discs starts with the video part.

#### When playing 3-inch CDs:

Do not use an adapter when placing 3-inch CDs on the disc table.

#### CAUTION

- Do not place anything on the disc table other than a disc.
- Do not lift up the player during playback, as this could result in damage to the disc.
- Be careful not to pinch your fingers between the player and the disc table.
- Be careful to take measures to prevent small children from opening the disc table and inserting their hands into the unit. This is hazardous and may cause injury.

#### Automatic playback function

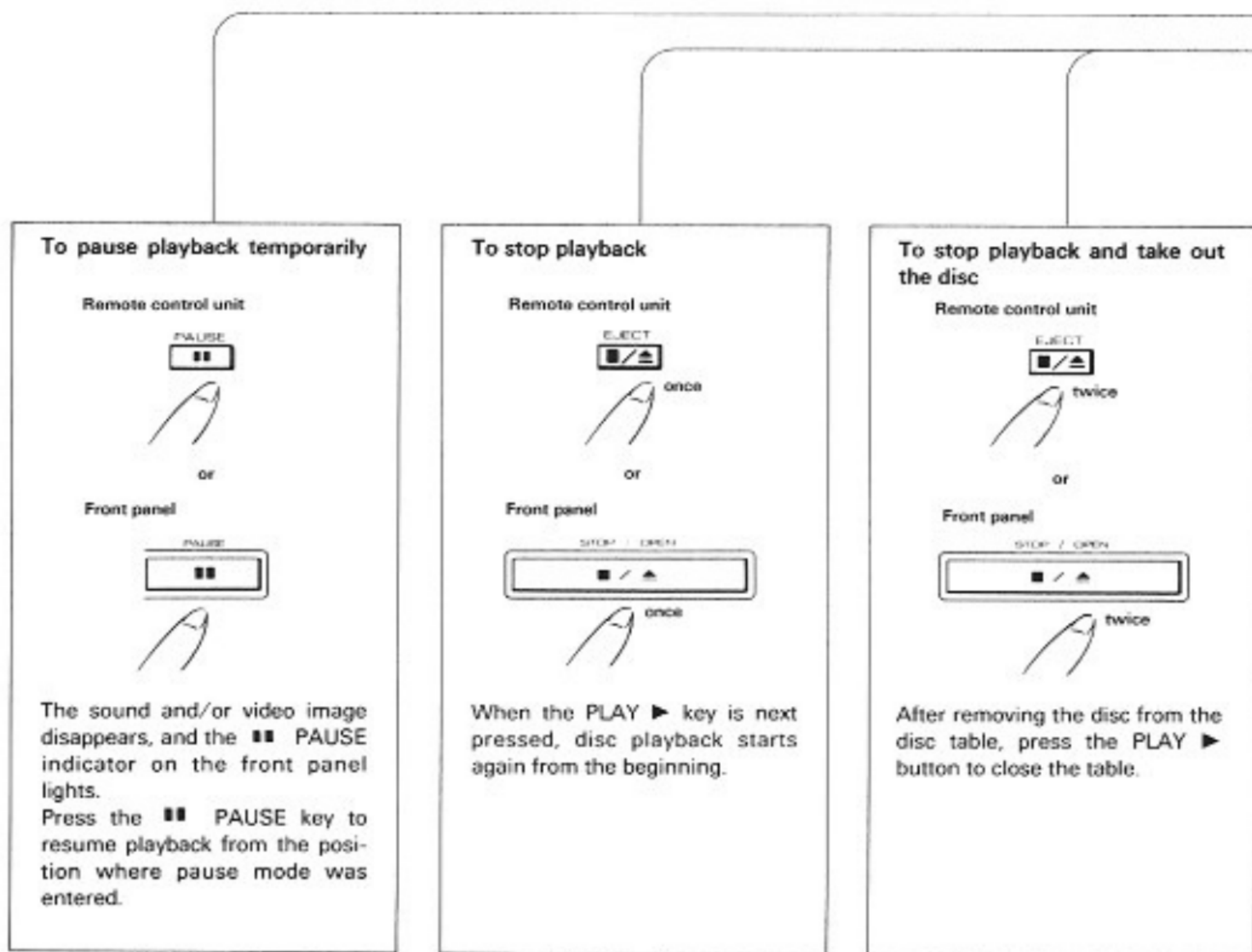
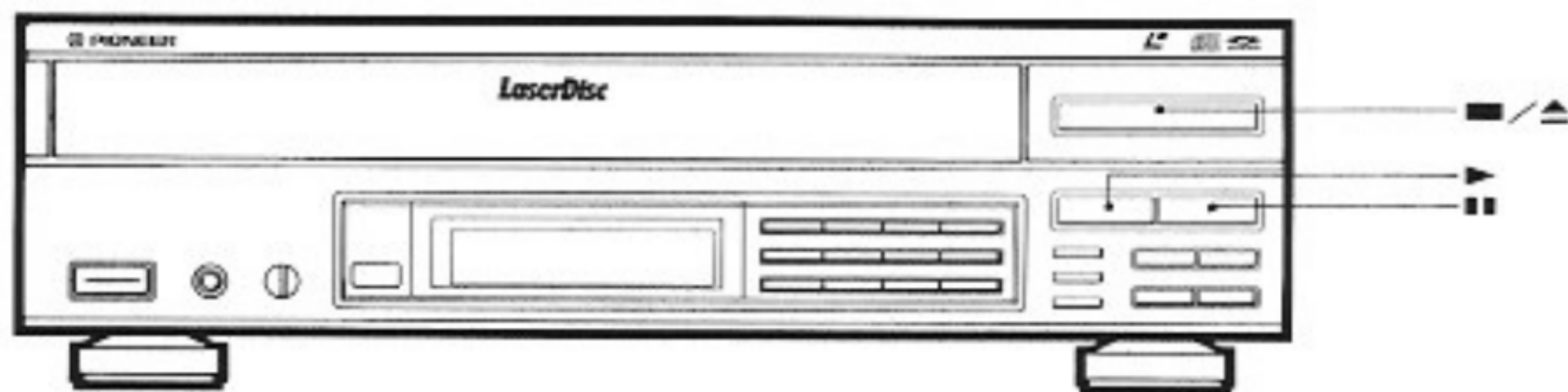
When the power is turned on with a disc set on the disc table, the player will automatically start playing from the beginning of the disc.

#### Timer playback


When using a commercially available audio timer, it is possible to initiate playback at any time automatically.


1. Place a disc on the disc table and close it.
  - Leave the POWER switch of the player turned on.
2. Set the time you wish to start playback. The timer will supply power to the amplifier and the player at the preset time, turning all the components on and initiating the playback mode. Playback starts from the beginning of the disc.



## TO VIEW OR LISTEN TO LD/CDV/CD (Continued)




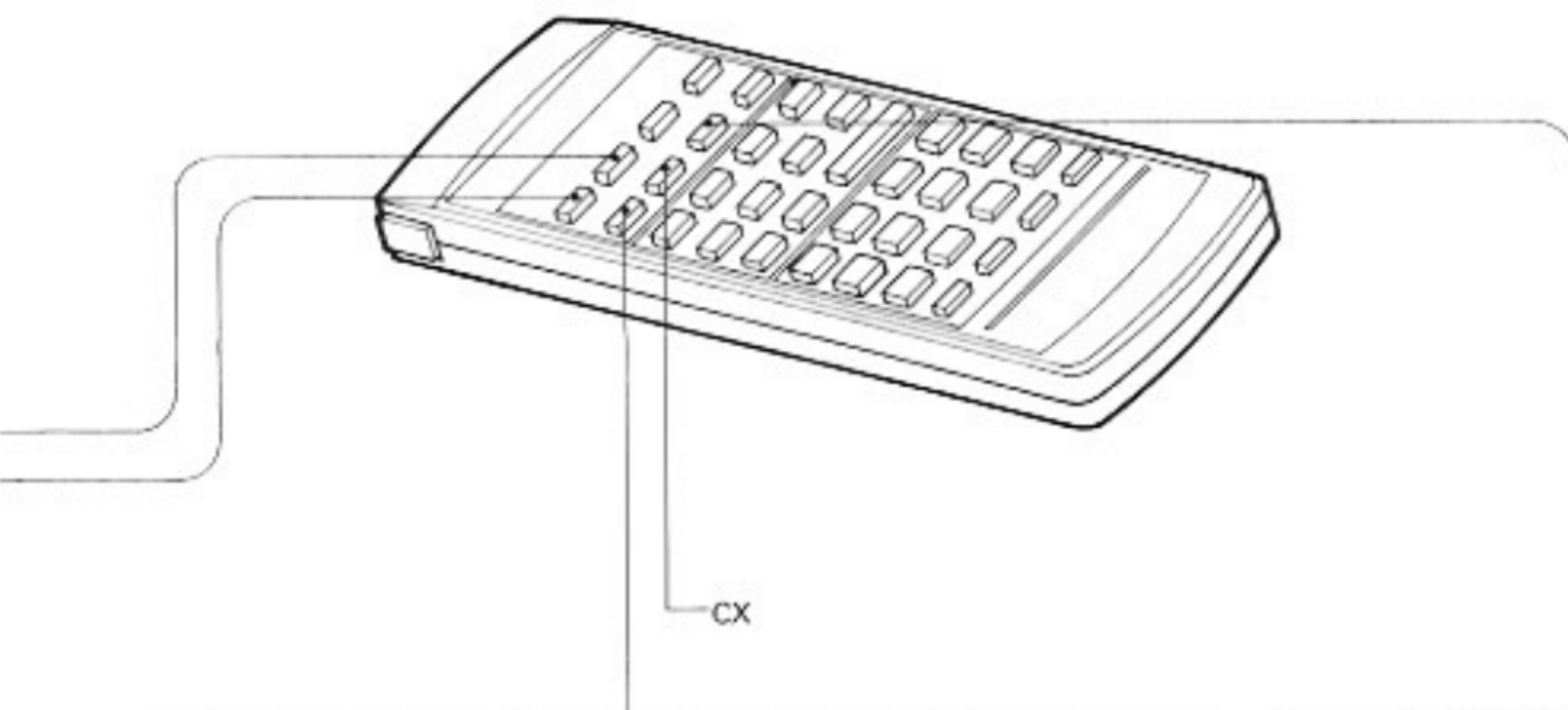
### Discs marked with the mark

Discs marked  are recorded with the CX noise reduction system for powerful audio reproduction with little noise.

The  indicator on the front panel lights when such a disc is played.

However, some discs marked  are not encoded with the signals necessary to instruct the unit to automatically switch on the CX system. If the  indicator does not light when a disc with a mark is played, press the CX key on the remote control unit.

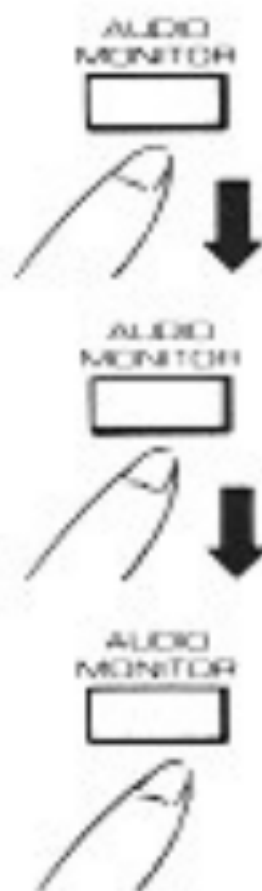
•  is a trademark of CBS Inc. This player meets the CX EXPANDING SPECIFICATION.

**LD**

To listen to only one channel of a stereo disc, or to select the audio on a sound multiplex disc

**During playback**

Played audio		Display on display window
Stereo disc	Sound multiplex disc	
Stereo	Audio 1/L (Left) Audio 2/R (Right)	1/L, 2/R
↓		
Left	Audio 1/L (Left)	1/L
↓		
Right	Audio 2/R (Right)	2/R
↓		
	Return to start	

**LD**

To listen to the analog audio of an LD digital audio disc:

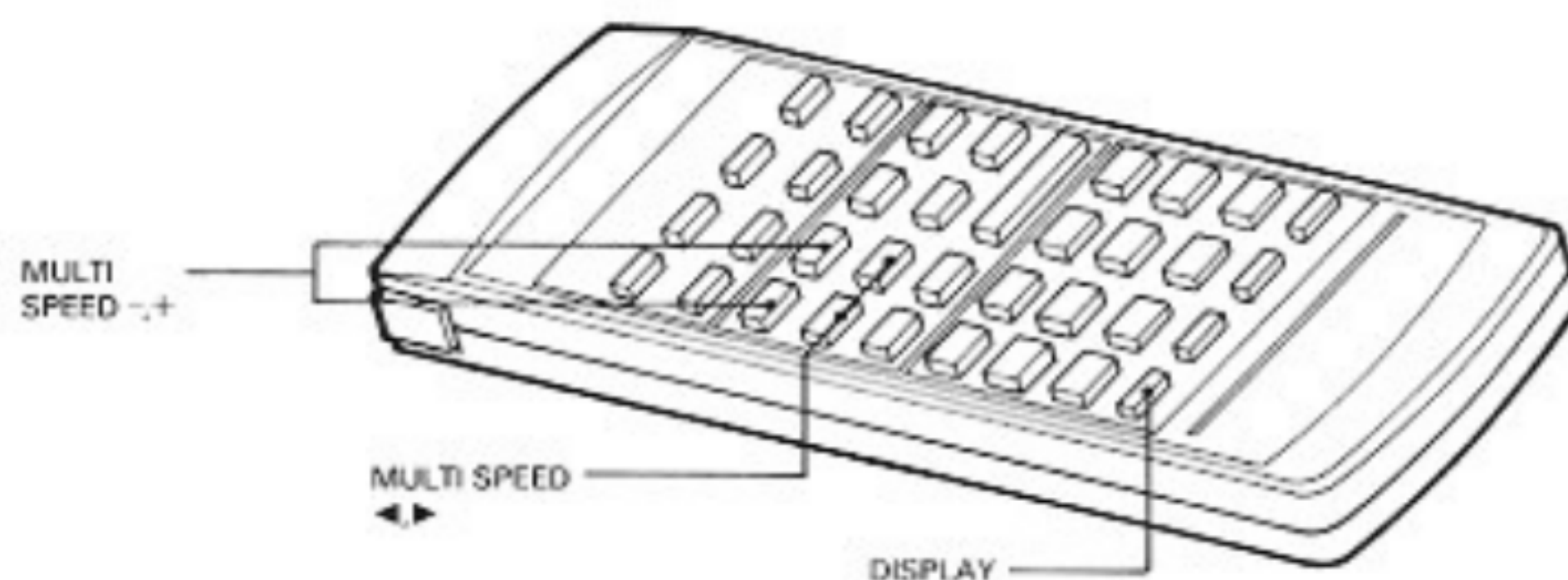
**During playback**

Played audio	Display on display window
Digital	DIGITAL SOUND
↓	
Analog	—
↓	
Return to start	



## TO VARY THE PLAYBACK SPEED OR DIRECTION

### Multi-speed Playback (CAV standard discs only)



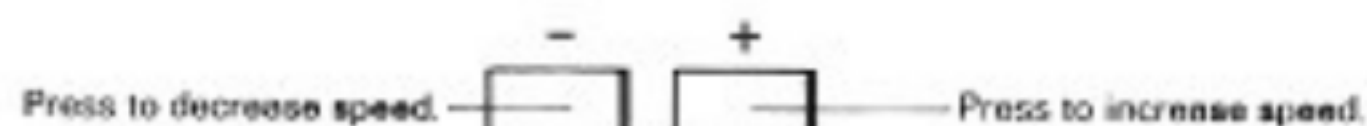
#### To vary the direction



To return to normal playback, press the PLAY ► key.

When reverse playback reaches the beginning of the disc, normal playback resumes. When forward playback reaches the end of the disc, a still frame is displayed.

#### To vary the speed



Faster  
↑  
↓  
Slower

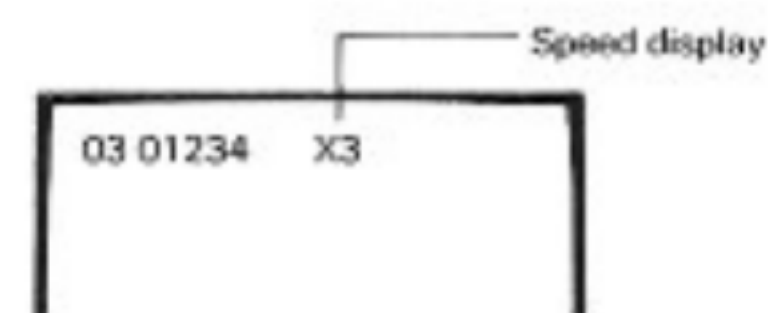
Speed display	Speed
x 3	3 times the normal playback speed.
x 2	Twice the normal playback speed.
x 1	Normal playback speed.
x 1/2	1/2 the normal playback speed.
x 1/4	1/4 the normal playback speed.
x 1/8	1/8 the normal playback speed.
x 1/16	1/16 the normal playback speed.
x 1/30	1/30 the normal playback speed.
x 1/90	1/90 the normal playback speed.

To return to normal playback, press the PLAY ► key.

#### To display the speed on the monitor TV screen



The selected speed is displayed.



#### When no sound is heard

During Multi-speed Playback operation, sound is not heard.

#### With CLV discs

Multi-speed Playback, Frame Advance, or Still Frame operation is not possible.

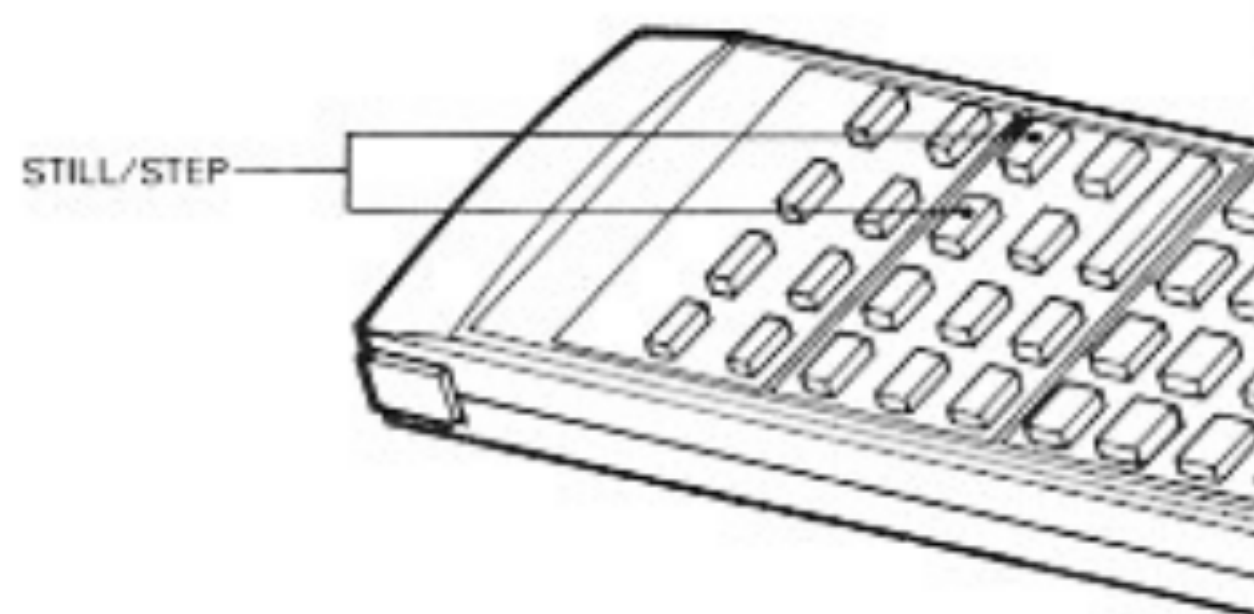
If the MULTI SPEED or STILL/STEP key is pressed during playback of a CLV disc, warning message "CLV" will be displayed for 2 seconds on the monitor TV screen.

#### When the MULTI SPEED ◀ or ▶ key is pressed for the first time:

The x1/4 speed is set automatically.

**If playback automatically switches to still frame display mode**  
If a disc containing special signals called "picture stop codes" is played at x1, x1/2, x1/4, x1/8, x1/16, x1/30, or x1/90 speed, playback pauses automatically whenever the unit encounters a frame where a picture stop code is encoded, and the still picture of that frame is displayed on the monitor screen. To move from that position, press the ►, ◀◀/▶▶, or ◀◀/▶▶ key.

## STILL FRAME/ FRAME ADVANCE (CAV standard discs only)



### To freeze the picture — Still Frame



Press either of these keys.

A still frame is displayed. To return to normal playback, press the PLAY ► key.

### To view frames one by one — Frame Advance



First, display a still frame.



Each press switches frames in the reverse direction.

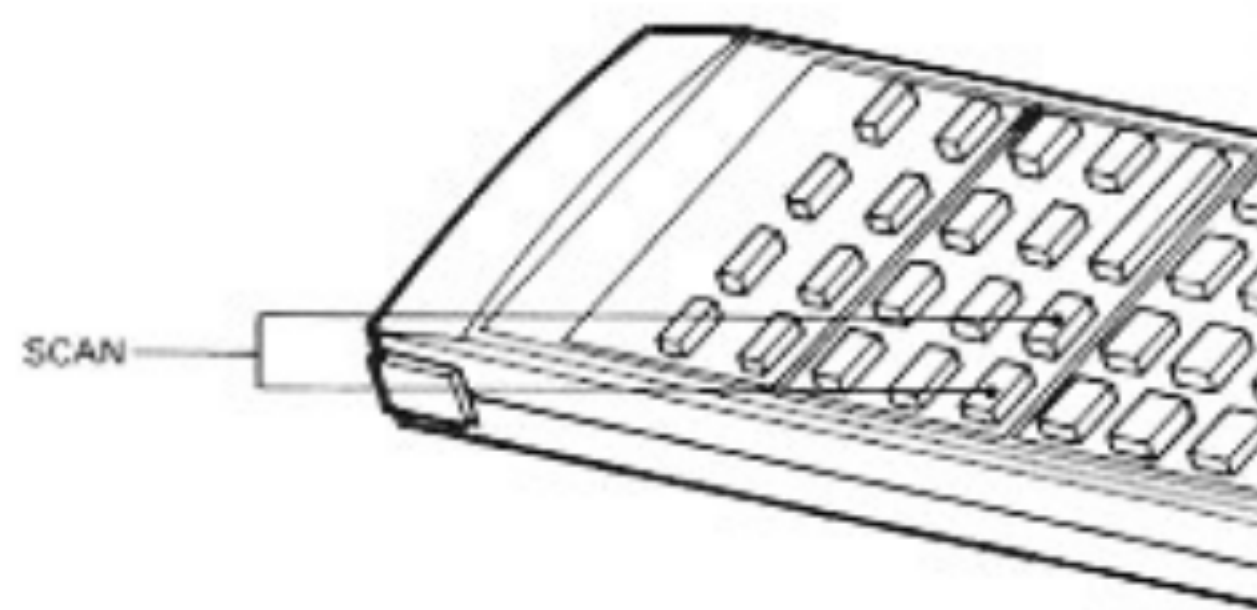
Each press advances frames in the forward direction.



Holding the key depressed advances frames continuously. To return to normal playback, press the PLAY ► key.

During still frame or frame advance operations  
Sound is not heard.

## TO SEARCH FOR A PARTICULAR SCENE (Search using fast forward or fast reverse — Speed Scan)

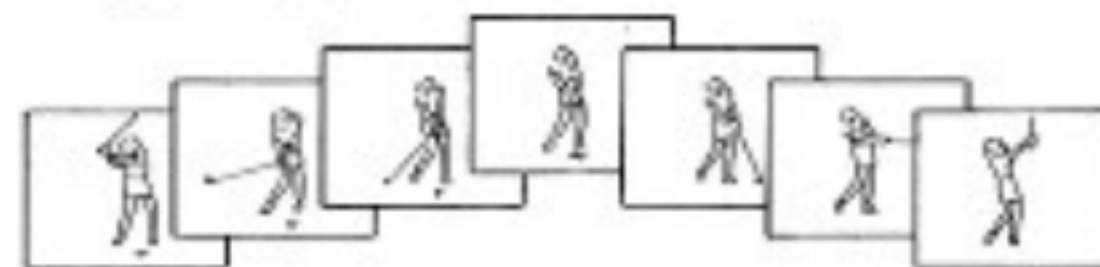


Press for fast-reverse operation.

Press for fast-forward operation.

For about two seconds after the key is pressed, the scan speed is fairly slow, after that, it change to high speed.

With the video part of CDV, the scan speed does not change to high speed.



Fast-forward or fast-reverse picture images can only be viewed while one of these buttons is held depressed.

When fast-forward playback reaches the end of the disc, normal playback resumes with CLV discs, while a still frame is displayed with CAV discs.

When fast-forward playback reaches the end of the video part of a CDV disc, the audio part will be scanned for.

When fast-reverse playback reaches the beginning of the disc, normal playback resumes.

During Speed Scan operation  
Sound is not heard.

#### Notes on CLV (extended play) discs

- When a CLV disc is scanned, the colors may fade and the picture may become distorted.
- The scanning speed of a CLV disc varies depending on the radial distance of the laser pickup from the center of the disc.

#### Note on CAV (standard play) discs

- Noise may be heard during Speed Scan operation. However, this is not a malfunction.

## TO SEARCH FOR A PARTICULAR SCENE (Search for the beginning of a chapter/track — Chapter Skip, Track Search)

The term "chapter" refers to each section on an LD, and the term "track" refers to each section on a CD or CDV disc.

If chapter or track numbers are encoded on a disc, it is so indicated on the disc jacket.



### To search for a chapter or track by designating its number

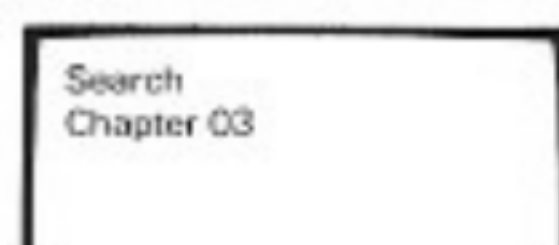
**Example** To view Chapter 3 of an LD from the beginning:

#### <Direct Search>

Enter 3 with the digit key.



Display with an LD disc



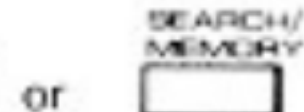
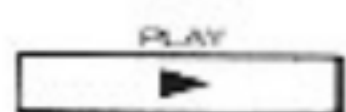
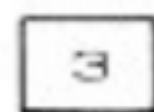
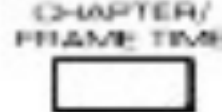
Chapter 3 is searched for.



Playback starts.

#### <Normal Search>

Enter 3 with the digit key.



When the display shows Frame No. or Time No., press this key again.

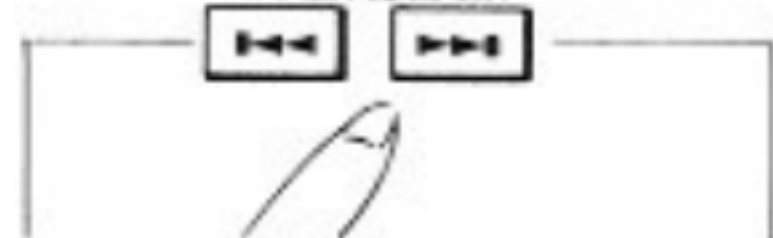
If you make a mistake during entry: Press the CLEAR key, and then press the correct key.

#### CAV (except for direct search)

With CAV (standard) discs, if Chapter Search is started while in the Still Frame, Multi-speed Playback, or pause mode, the designated chapter is located and then played under the same conditions set before the search was carried out.

### To return to the beginning of the present chapter/track, or to go to the beginning of the next chapter/track

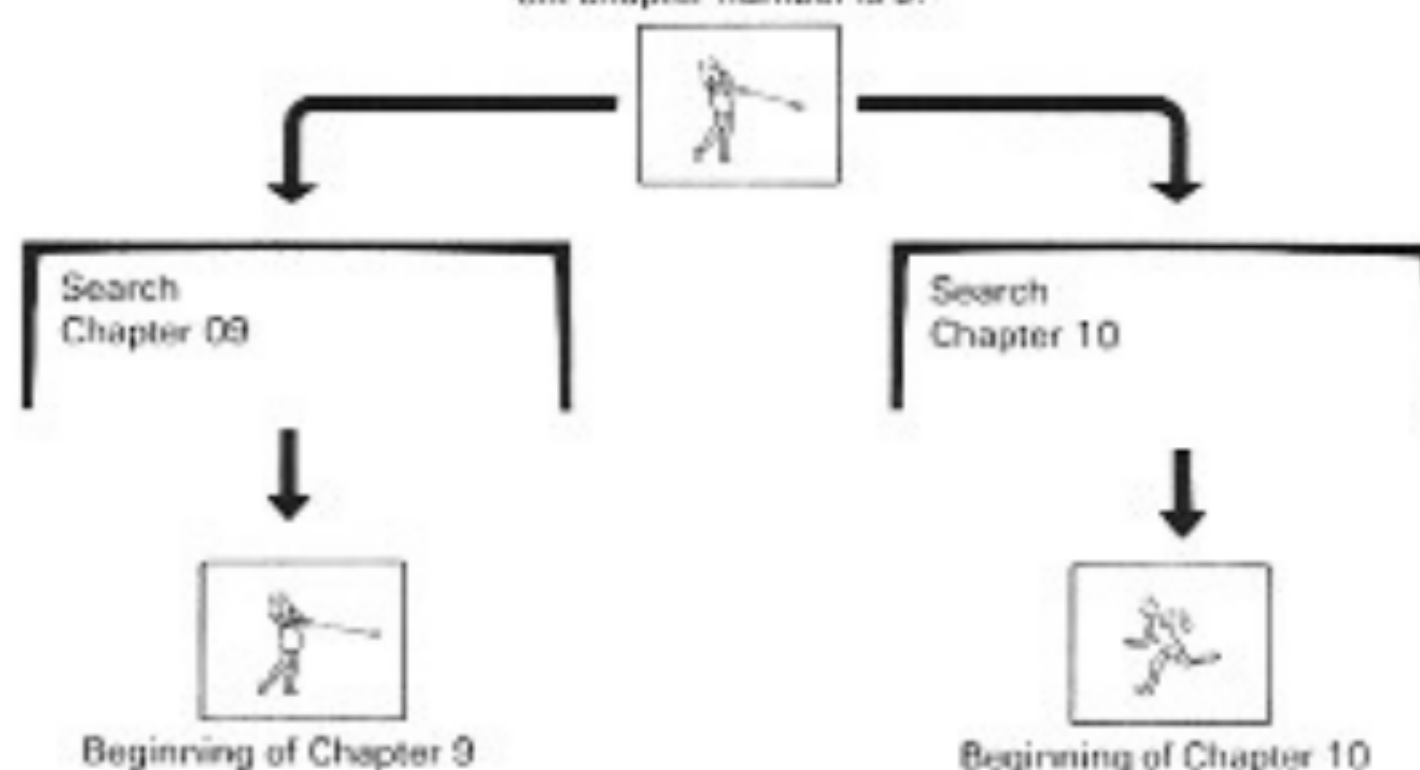
CHAPTER SKIP  
TRACK SEARCH



Press once to return the playback position to the beginning of the chapter/track being played. If the button is pressed more than once before the picture reappears, the beginning of a chapter/track located before the chapter/track being played is searched for and played. The position of the located track corresponds to the number of times the button is pressed.

If this button is pressed once or a number of times, playback is advanced to the beginning of a chapter/track located after the chapter/track being played. The position of the located track corresponds to the number of times the button is pressed.

**Example** If the present chapter number is 9:



**To identify the present chapter number and frame (or time) number:**

The numbers are displayed in the front panel display window. The information can also be displayed on the monitor TV screen by pressing the DISPLAY key on the remote control unit.

**To search for chapter number 10 or above:**

Use the [+10] key.

(Example) To enter 17: [+10], [7]

To enter 30: [+10], [+10], [+10], [0]

**To cancel the search operation**

Press the EJECT key or CLEAR key while the player is searching for the chapter or track.

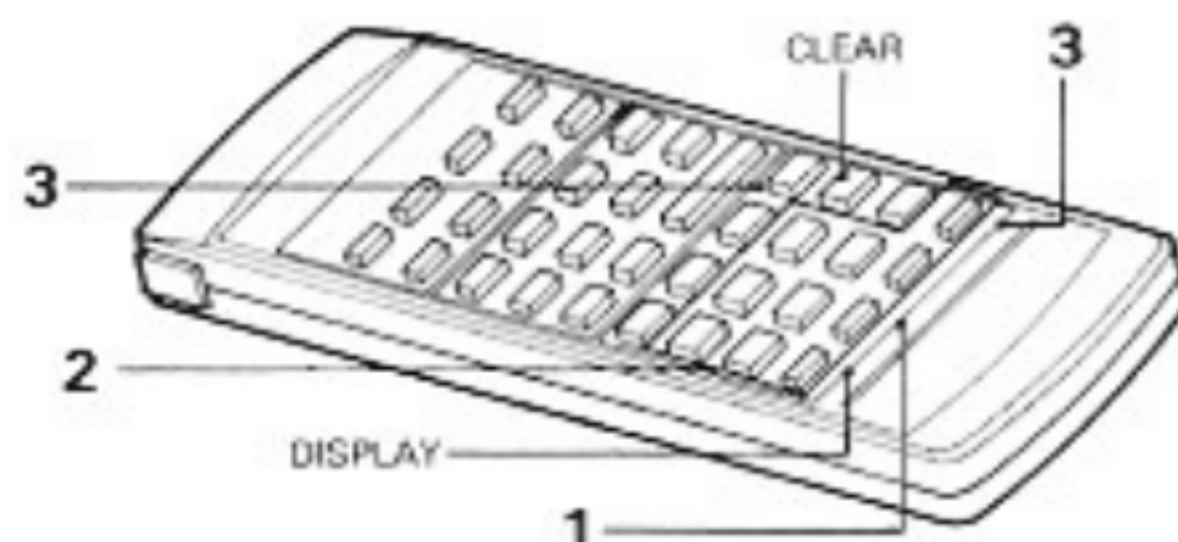
#### CAUTION

- If a chapter number beyond the last chapter number of an LD is specified, the end of the disc is played for about 8 seconds and disc playback stops. (If "00" is specified, playback restarts from the beginning of the disc.)
- Chapter Search or automatic chapter search is not possible with discs which are not divided into chapters. When such a disc is played, only the frame number or time number can be displayed on the monitor screen.

## TO SEARCH FOR A PARTICULAR SCENE (Search for a Frame — Frame Search) (CAV standard discs only)

The term "frame" refers to each of the picture images recorded on a CAV standard disc.

Any desired frame can be searched for by specifying its frame number.

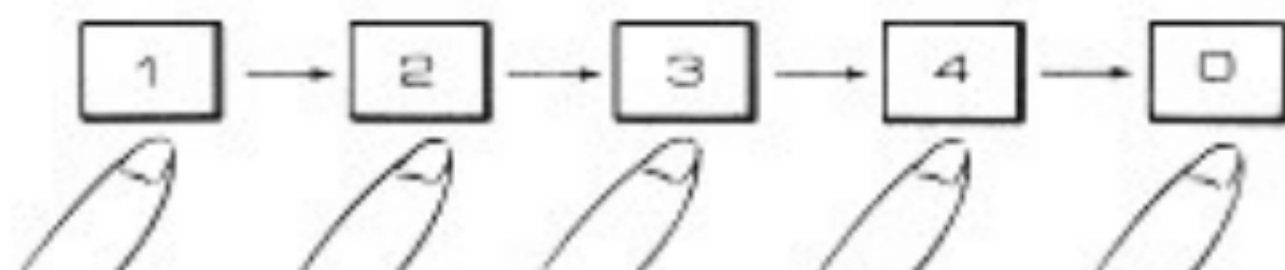


### Example To search for frame number 12340:

- 1 Press the **CHAPTER/FRAME TIME** key.



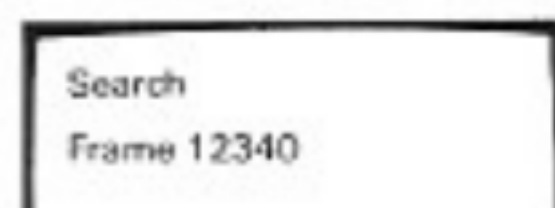
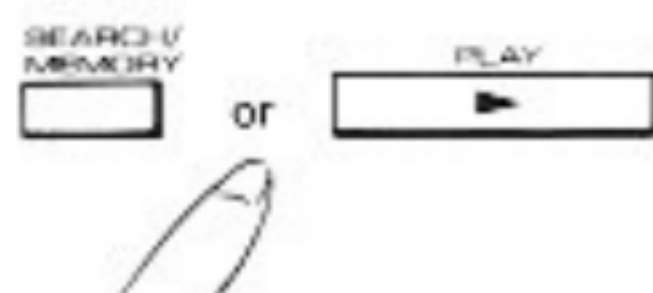
- 2 Enter **1**, **2**, **3**, **4**, and **0** with the digit keys.



If you make a mistake during entry:

Press the **CLEAR** key to reset the frame number to "00000", and press the correct keys (all 5 digits) again.

- 3 Press the **SEARCH/MEMORY** or **PLAY** key.



Frame 12340 is searched for.



Playback starts from the specified frame number.

When the **SEARCH/MEMORY** key is pressed:  
A still frame is displayed.

When the **▶ PLAY** key is pressed:

If Frame Search is started from the normal playback, Still Frame, Multi-speed Playback, or pause mode, playback starts at the designated frame under the playback conditions set before the search.

**To enter a frame number:**

Use the **0** — **9** digit keys. The **+10** key does not function.

**To identify the present chapter number and frame number:**

The numbers are displayed in the front panel display window. The information can also be displayed on the monitor TV screen by pressing the **DISPLAY** key on the remote control unit.

**To cancel Frame Search:**

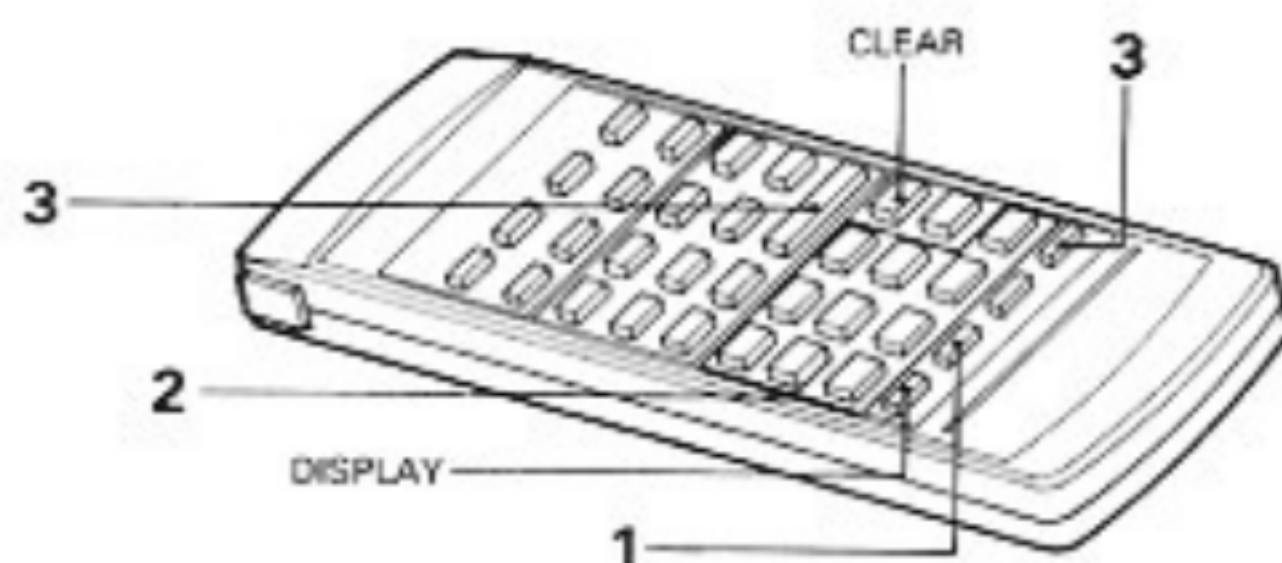
Press the **CLEAR** key.

**CAUTION**

If a frame number beyond the last frame number on the disc is specified, the end of the disc is played for about 8 seconds and disc playback stops. (If "00000" is specified, playback restarts from the beginning of the disc.)

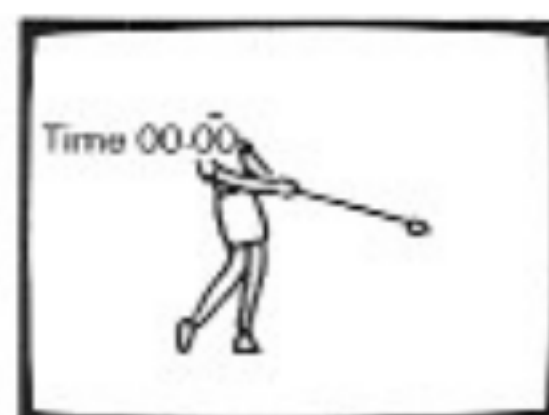
## TO SEARCH FOR A PARTICULAR SCENE (Search for a time number — Time Search) (CLV extended play discs only)

The time number indicates the time elapsed from the beginning of the disc, which is recorded on CLV discs. Any desired scene can be searched for by specifying its time number.

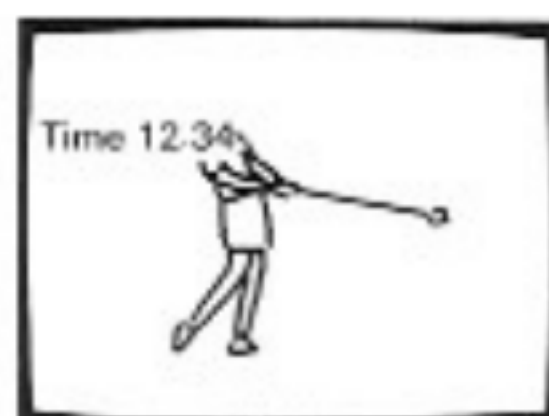
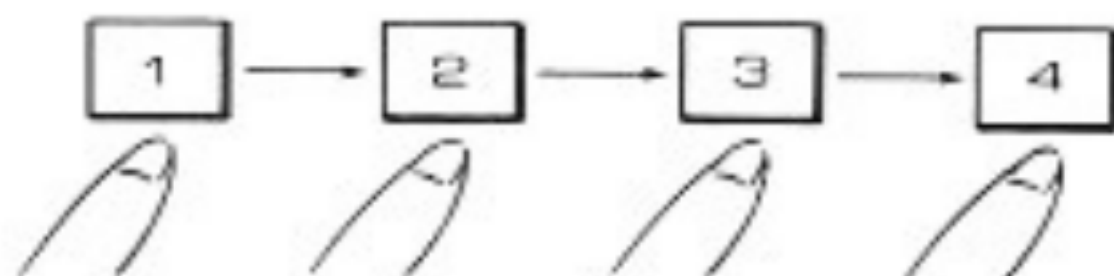


**Example** To search for the scene located at time number 12 min. 34 sec.:

- 1 Press the **CHAPTER/FRAME TIME** key.



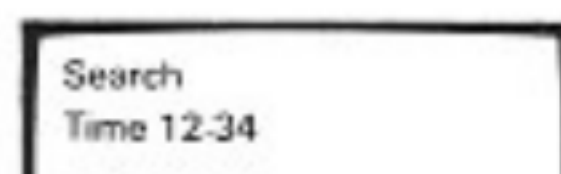
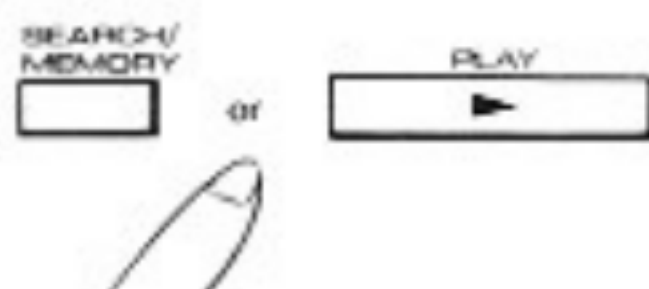
- 2 Enter **1**, **2**, **3**, and **4** with the digit keys.



If you make a mistake during entry:

Press the **CLEAR** key to reset the time number to "00:00", and press the correct digit keys (4 digits with discs containing information on the digits of seconds, 2 digits with discs without the second information) again.

- 3 Press the **SEARCH/MEMORY** key or **PLAY** key.



Time 12:34 is searched for.



Playback starts from the scene located at the specified time number.

**To identify the present chapter number and time number:**  
The numbers are displayed in the front panel display window. The information can also be displayed on the monitor TV screen by pressing the **DISPLAY** key on the remote control unit.

**To enter the time number:**  
Use the **0** — **9** digit keys. The **+10** key does not function.

**To cancel Time Search:**  
Press the **CLEAR** key.

### CAUTION

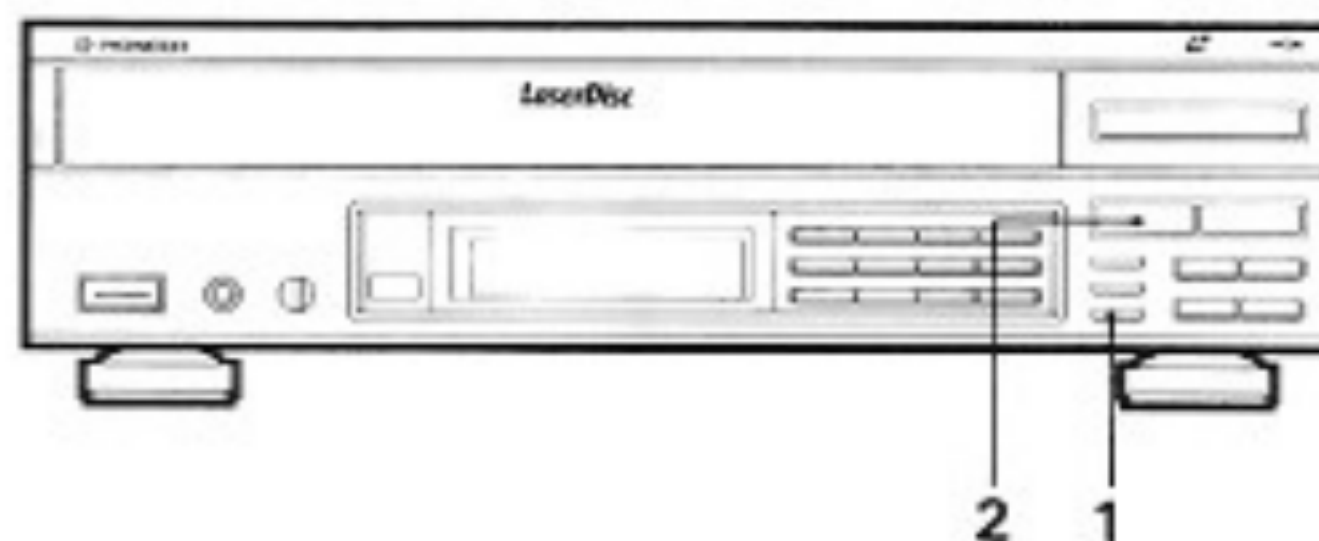
- If a disc does not contain information on the digits of seconds, specify the time number only as far as the minute digits.
- If a time number beyond the last time number on the disc is specified, the end of the disc is played for about 8 seconds and disc playback stops.



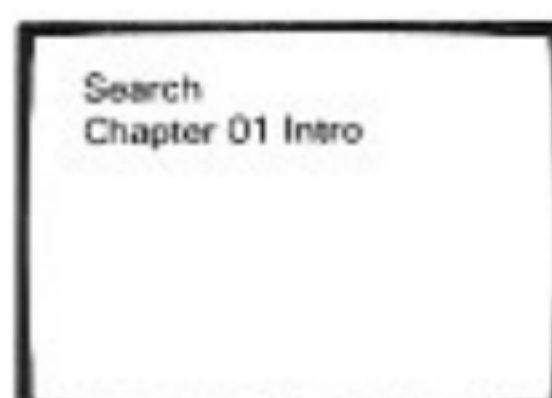
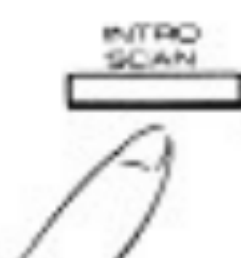
## TO SEARCH FOR A PARTICULAR SCENE (Search for the beginning of a chapter — Intro Scan)

This function can be used with discs having chapter numbers.

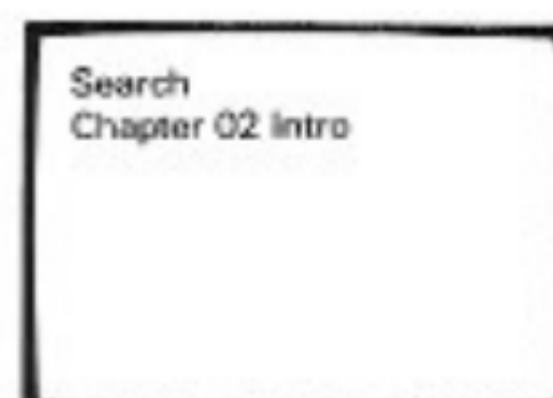
When the INTRO SCAN button is pressed, the beginning of each chapter is located and played successively. The beginning of each chapter is played for approximately 8 seconds.



### 1 Press the INTRO SCAN button.

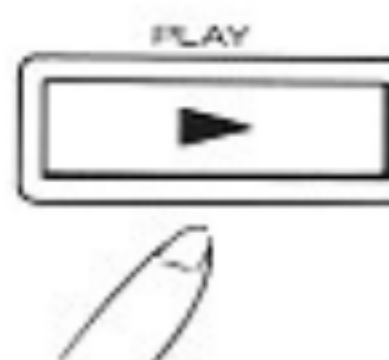


The beginning of the chapter 1 is played for approximately 8 seconds.



The beginning of the chapter 2 is played for approximately 8 seconds.

### 2 When the desired chapter is found, press the PLAY ► key on the remote control unit or the PLAY ► button on the front panel of the player.

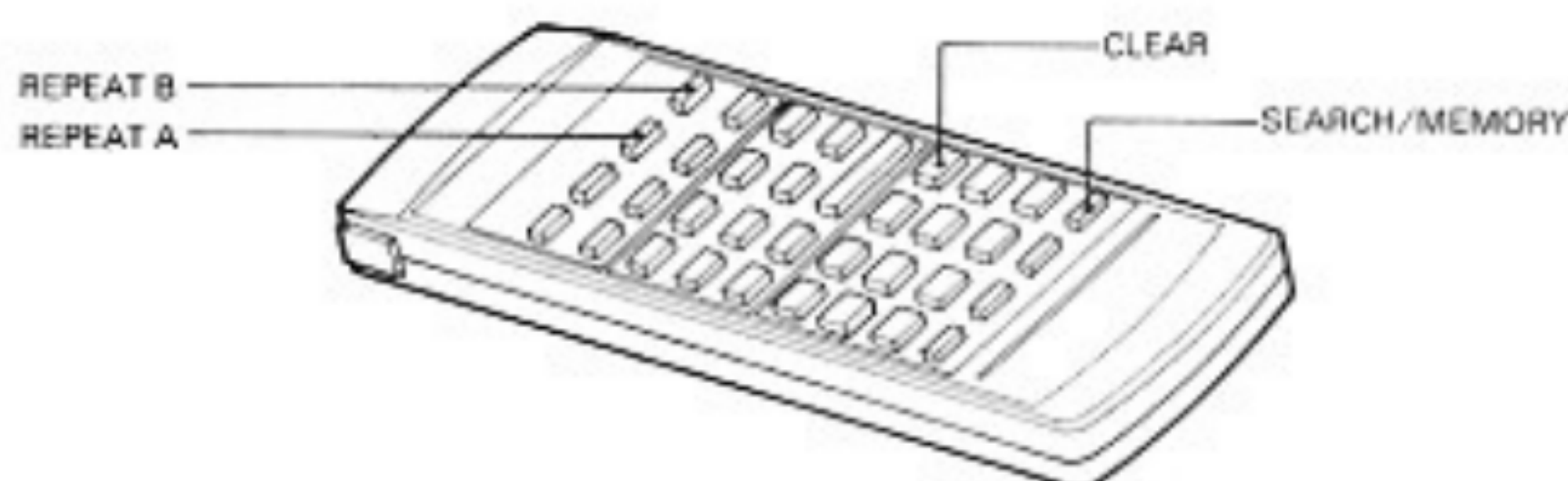


Intro Scan mode is canceled, and normal playback begins.

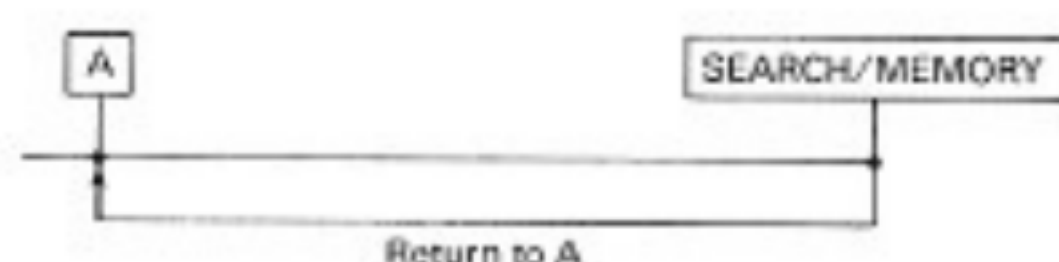
After all chapters on the disc have been scanned:  
Normal playback starts at the beginning of the disc.

When the PAUSE ■■ key is pressed during Intro Scan mode:  
The player enters pause mode at the point where the PAUSE key is pressed.

## TO VIEW/LISTEN TO ONLY THE DESIRED SCENES/TRACK



### To specify a point which you want to see or listen to again (Memory Repeat)



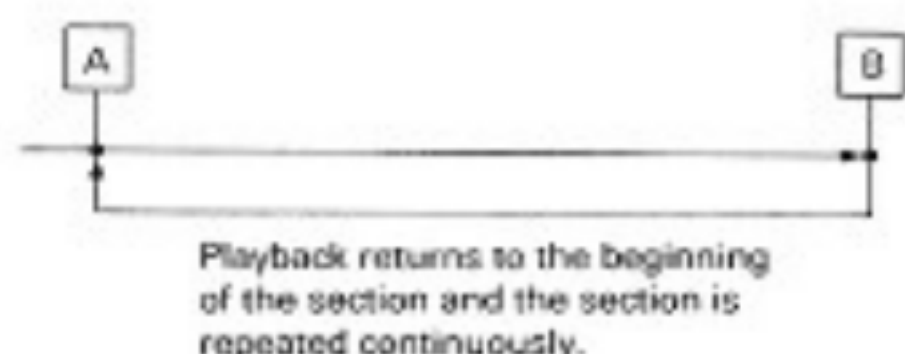
A box labeled 'A' with a small 'A' indicator below it. A line with an arrow points from the 'A' box to the right, labeled 'Playback'.

The point A is memorized. The A indicator lights on the display window of the front panel.

A box labeled 'SEARCH/MEMORY' with a small 'A' indicator below it. A line with an arrow points from the 'SEARCH/MEMORY' box to the left, labeled 'Playback'.

When you want to return to point A, press this key. The REPEAT A indicator lights on the display window of the front panel.

### To repeat a specified section (A-B Repeat)



A box labeled 'A' with a small 'A' indicator below it. A line with an arrow points from the 'A' box to the right, labeled 'Playback'.

Press at the beginning (A) of the section to be repeated. The A indicator lights on the display window of the front panel.

A box labeled 'B' with a small 'A' indicator below it. A line with an arrow points from the 'B' box to the left, labeled 'Playback'.

Press at the end (B) of the section to be repeated. The REPEAT A-B indicator lights on the display window of the front panel.

### To repeat the chapter or track being played (Chapter/Track Repeat)



When the chapter being played has been played until the end, playback returns to the beginning of the chapter and the chapter is repeated. The REPEAT indicator lights on the display window of the front panel.

A box labeled 'B' with a small 'A' indicator below it. A line with an arrow points from the 'B' box to the left, labeled 'Playback'.

Press REPEAT B key once during playback of the chapter or track.

**To exit repeat mode:**  
Press the CLEAR key.

**When you wish to specify another point in Memory Repeat mode:**

Press the REPEAT A key at the desired point. The new point is memorized and the previous one is erased.

**Memory Repeat and A-B Repeat with CDV discs**

With CDV discs, these repeat functions cannot be carried out between the audio and video parts.

**With LD discs without chapter numbers:**  
Chapter repeat cannot be carried out.

**To check the present operation contents:**

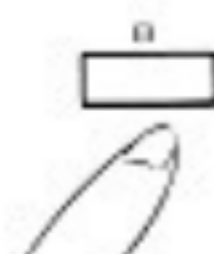
The operation contents are displayed in the front panel display window. The operation contents can also be displayed on the monitor TV screen by pressing the DISPLAY key on the remote control unit.

**(Repeat Playback)****To repeat an entire side of a disc (One Side Repeat)**

Beginning of the disc                      End of the disc



When the side being played has been played until the end, playback returns to the beginning of the disc and the same side is repeated.



Press the REPEAT B key twice. The REPEAT indicator in the front panel display window lights.

**To repeat a program**

Programmed selections will be played repeatedly.

- For programming, refer to page 36.



Press the REPEAT B key during program playback.

The following operations are possible during Repeat Playback:

LD/Video portion of CDV	CD/Audio portion of CDV
<ul style="list-style-type: none"> <li>• Play</li> <li>• Pause</li> <li>• Still/Step (forward and reverse)</li> <li>• Multi-speed forward/reverse</li> <li>• Fast forward/Fast reverse</li> </ul>	<ul style="list-style-type: none"> <li>• Play</li> <li>• Pause</li> <li>• Fast forward/Fast reverse</li> </ul>

The following operations cancel repeat play

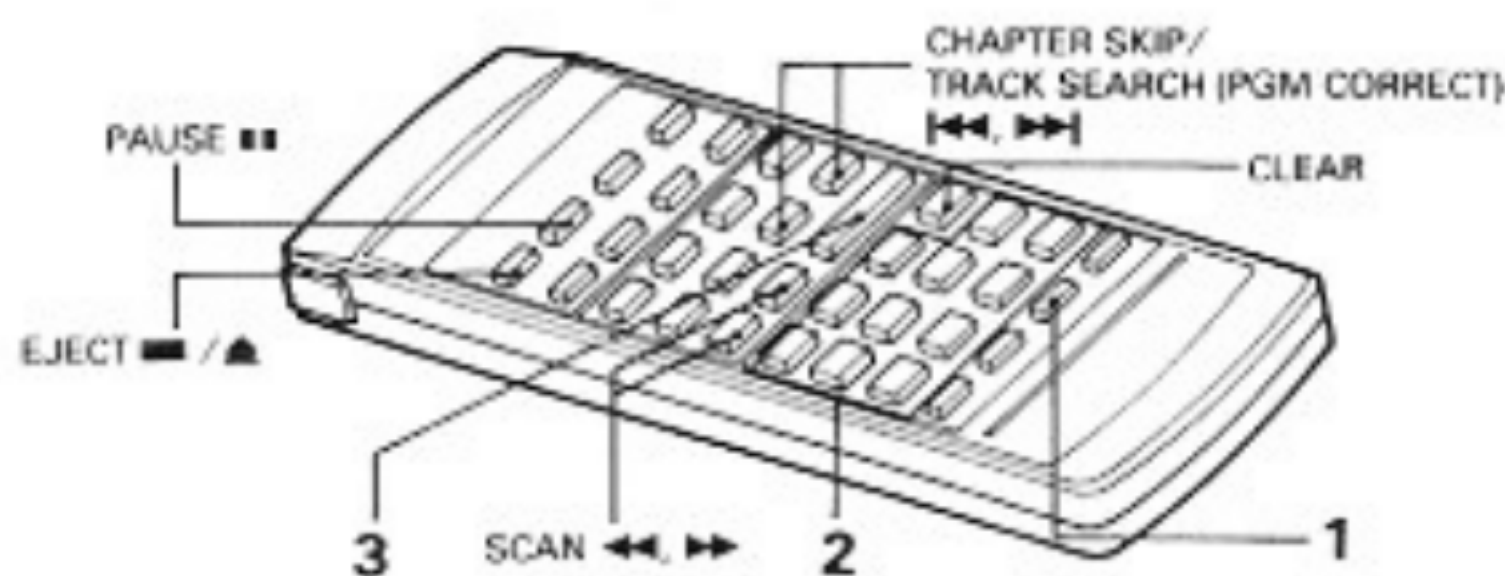
(\* One Side Repeat is not canceled)

LD/Video portion of CDV	CD/Audio portion of CDV
<ul style="list-style-type: none"> <li>• Chapter skip (forward or reverse)</li> <li>• Search operations (chapter/frame, time, digit entry)</li> <li>• Program play</li> <li>• Random play</li> </ul>	<ul style="list-style-type: none"> <li>• Track search</li> <li>• Search operations (track, time, digit)</li> <li>• Program play</li> <li>• Random play</li> </ul>

## TO VIEW/LISTEN TO ONLY THE DESIRED SCENES/TRACKS

Selected chapters (LD) or tracks (CDV/CD) can be played in any desired order (max. 24 chapters or tracks).

- You can view the state of programming on the monitor TV screen.



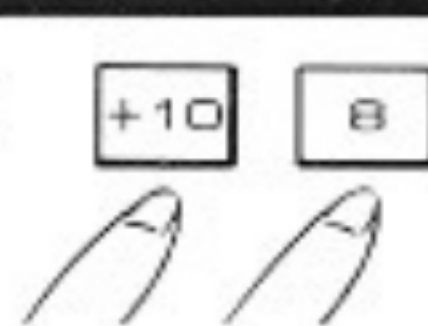
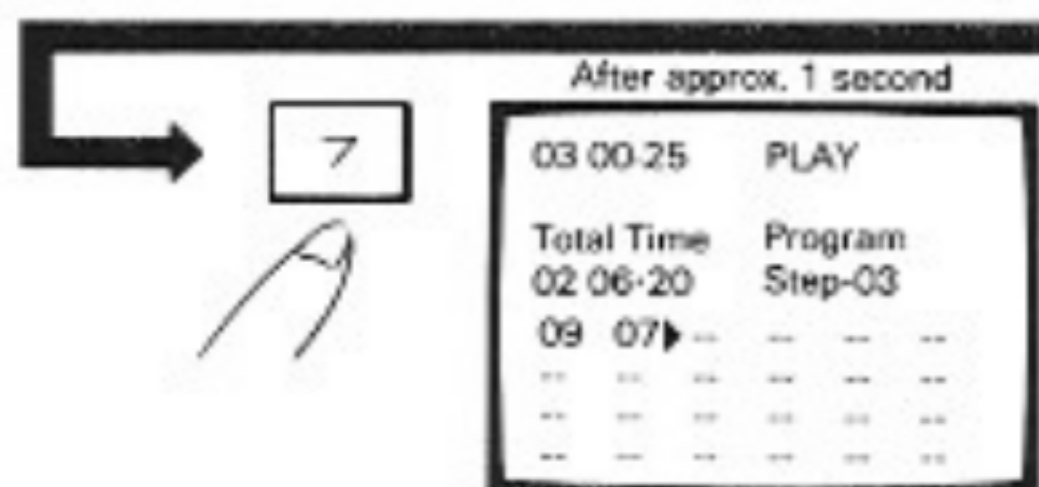
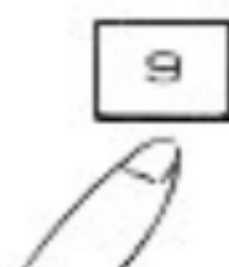
### Example To play CD tracks No. 9, No. 7, and No. 18 in this order:

#### 1 Press the PROGRAM key.

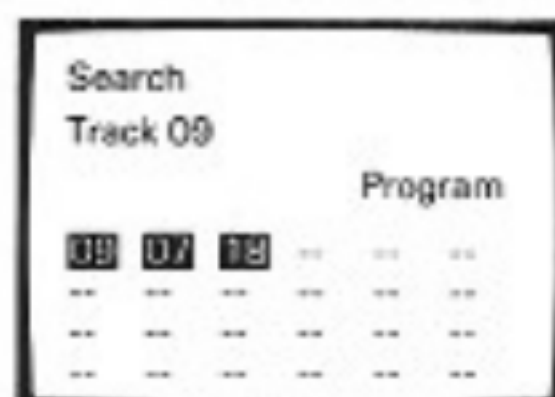
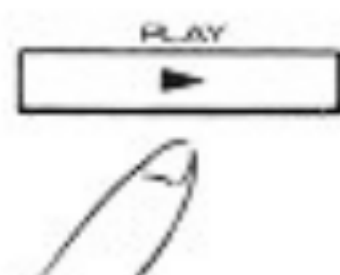


#### 2 Enter [9], [7], [+10], and [8] with the digit keys.

If you make a mistake during entry: Press the CLEAR key and enter the correct number with the digit keys.



#### 3 Press the PLAY key.



The first track (chapter) in the program is searched for and played. In this example, Program Playback starts at the beginning of track number 9.

After tracks No. 9, No. 7, and No. 18 have been played, the player enters stop mode.

#### To stop program play in the middle:

- Press the STOP/OPEN / button on the front panel of the player or the EJECT / key on the remote control unit, or
- Press the CLEAR key.

#### To clear the program contents:

- Open the disc table, or
- Press the CLEAR key in stop mode.

#### Programming a pause:

When recording on a cassette tape, a programmed pause allows you to change the tape side or to record a blank section on the tape which is useful for music search functions, etc.

When a program is in pause mode, pressing the PAUSE key resumes disc playback, so restart recording before pressing the PAUSE key.

#### To program a pause:

In step 2 of the above procedure, press the PAUSE key instead of entering a chapter or track number.

#### NOTE:

- A pause cannot be programmed for step 1 (01), and it cannot be programmed for two consecutive steps.
- A pause can be programmed for the last program step, however, it will not be effective.

#### Programmed pause indication:

On the monitor screen —

In the front panel display window — PA

#### To go to the previous or next chapter (track) in a program:

Press the CHAPTER SKIP/TRACK SEARCH or key.

#### Total time display:

This unit can only display a maximum of 99 minutes 59 seconds. If the total time exceeds this amount, total time will not be displayed.

## (Program playback)

### To check the program contents

During program playback or in stop mode, press the PROGRAM key to display the program contents on the monitor screen. When the PROGRAM key is pressed again, the program contents disappear.

### To modify the program contents

#### To erase a programmed chapter/track or pause

1. Press the PROGRAM key.
2. Press the PGM CORRECT ◀◀ or ▶▶ key to place the cursor on the left side of the chapter/track or pause to be erased.
3. Press the CLEAR key.
4. Press the PROGRAM key to complete programming.  
Pressing the PLAY key also completes programming and starts program playback with the new program contents.

#### To change a programmed chapter/track or pause to a new one

1. Press the PROGRAM key.
  2. Press the PGM CORRECT ◀◀ or ▶▶ key to place the cursor (▶) on the left side of the chapter/track or pause to be changed.
  3. Enter the new chapter/track number with the digit keys.  
Press the PAUSE ■■ key to enter a pause.
  4. Press the PROGRAM key to complete programming.  
Pressing the PLAY key also completes programming and starts program playback with the new program contents.
- Programmed chapter/track being played cannot be erased or changed.
  - Programmed pause being engaged cannot be erased or changed.

#### CAUTION

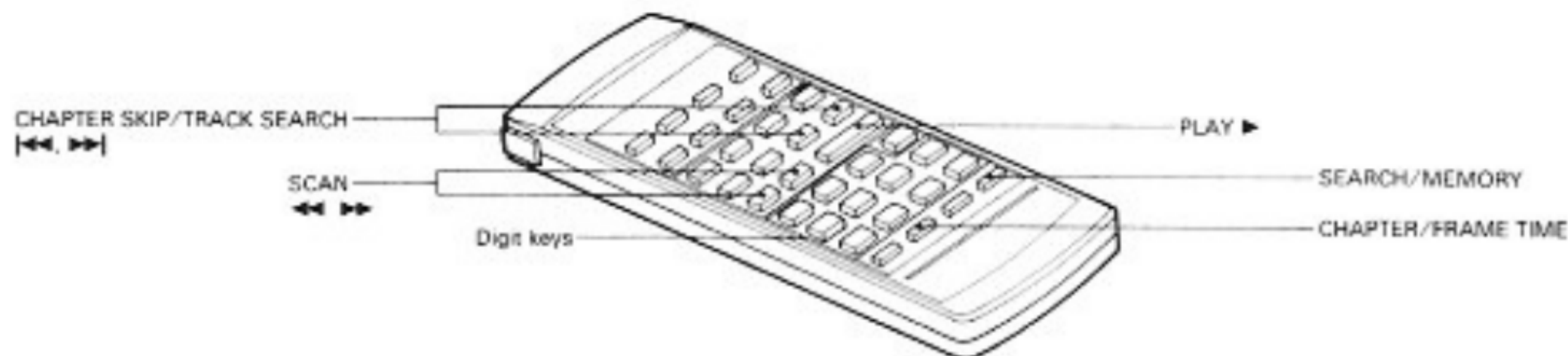
- If the SCAN ▶▶ key is held depressed during program playback, the next chapter or track on the disc will be played at high speed. In this state, releasing the SCAN ▶▶ key searches for the next chapter or track in the program and starts program playback. If the ◀◀ key is held depressed, the playback position returns to the beginning of the current chapter or track being played, but it will not go beyond it to a previous chapter or track in the program.
- If the MULTI SPEED ▶ key is pressed during Program Playback, the next track in the program will be played. If the MULTI SPEED ◀ key is pressed, the playback position returns to the beginning of the current chapter being played, and the player enters normal play mode.
- If a chapter number or track number which is not present on a disc is specified in a program, the program may not be executed.

#### To view the program contents:

Program contents can be viewed in the front panel display window.

- Programmed chapter/track numbers light up on the visual calendar.
- Program contents are sequentially displayed by pressing the PGM CORRECT ◀◀ or ▶▶ key.

# TO SEARCH FOR A PARTICULAR TRACK



## To search by designating the track number



Enter the track number with the digit keys.

- When a track number which is not present on the disc is designated, the track search function may not be executed.

## To search for a desired point — Manual Search by fast forward or fast reverse



Normal playback resumes as soon as the button is released.

- For about two seconds after the key is pressed, the scan speed is fairly slow. After that, it changes to high speed.
- When fast-reverse play reaches the beginning of the disc, normal play resumes.
- When fast-forward play reaches the end of the disc, "End" appears on the display, and the unit enters pause mode.

## To search for the beginning of a track

Press once to return the playback position to the beginning of the track being played. If the key is pressed more than once, the beginning of a track located before the track being played is searched for and played. The position of the located track corresponds to the number of times the key is pressed.



Pressing this key once advances the playback position to the beginning of the next track. If the button is pressed more than once, the beginning of a track located after the next track is searched for and played. The position of the located track corresponds to the number of times the key is pressed.

## To search for a track time on a specified track

1 Press the CHAPTER/FRAME TIME key.



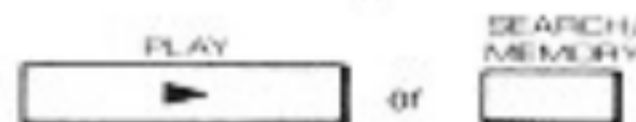
2 Press the CHAPTER SKIP/TRACK SEARCH  $\lll$  or  $\ggg$  key so that the desired track number appears in the front panel display window.



3 Enter the track time with the digit keys (0-9).



4 Press the PLAY  $\triangleright$  key or SEARCH/MEMORY key.



When the PLAY  $\triangleright$  key is pressed:  
Playback starts under the playback conditions set before the search.

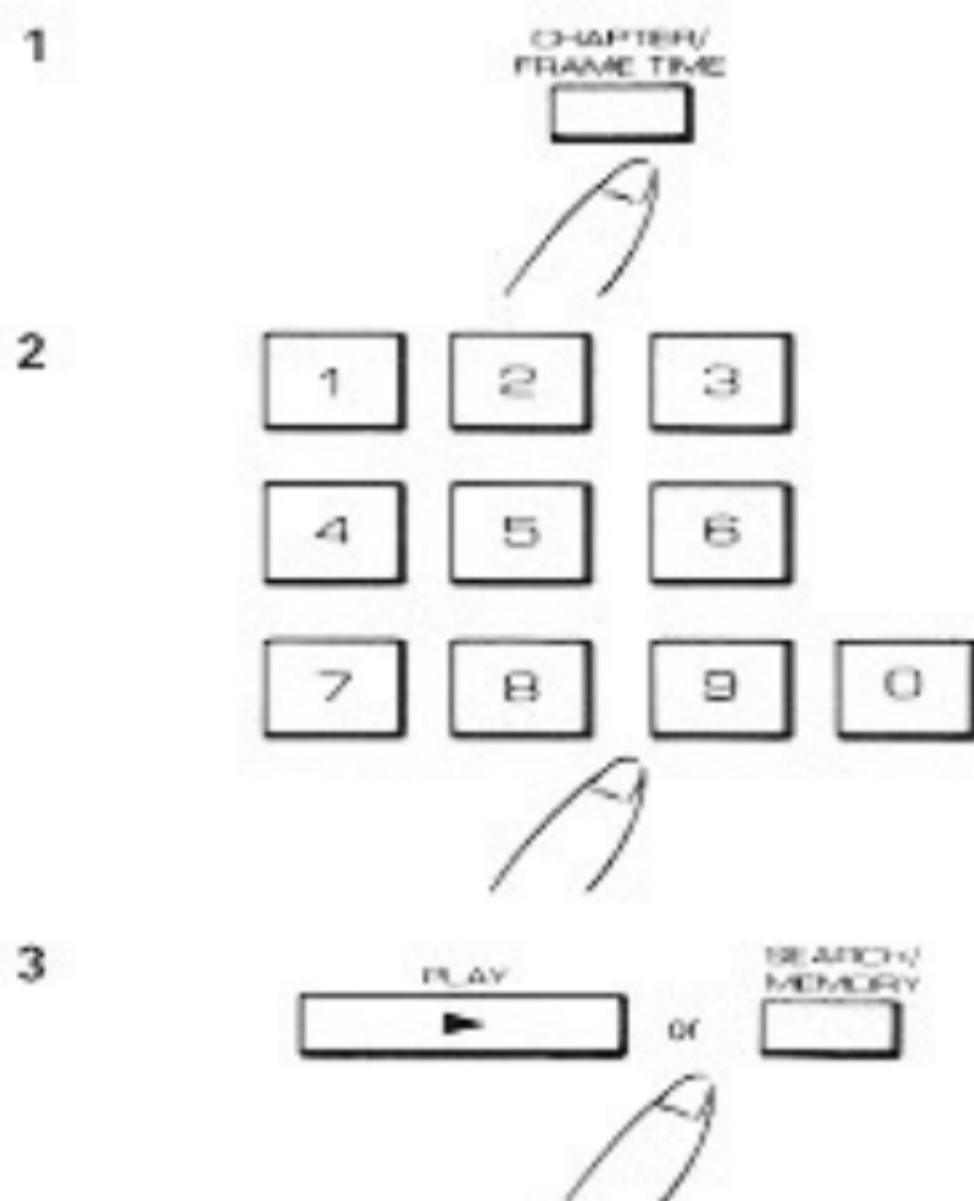
When the SEARCH/MEMORY key is pressed:  
Playback starts from the entered track time on the specified track.

**(Track Search)****To search for a track by listening to the beginning of each track**

When the INTRO SCAN button on the front panel is pressed, the beginning of each track is played for about 8 seconds.

Once the desired track is found, press the PLAY ► key. The unit enters play mode. If the PAUSE key is pressed, the unit enters pause mode.

- Intro Scan of CDV starts with the video part.

**To search for a point by designating the elapsed time from the beginning of the disc — CDs only**

Press the CHAPTER/FRAME TIME key so that "Ab" appears in the front panel display window. (On the monitor screen, "ABS" appears.)

Enter the elapsed time from the beginning of the disc with the digit keys (0-9).

Press the PLAY ► key or SEARCH/MEMORY key.

Playback starts from the specified elapsed time.

To search for chapter/track number 10 or above:

Use the [+10] and [0] keys.

(Example) To enter 14: [+10], [4]

To enter 20: [+10], [+10], [0]

If you make a mistake in pressing the digit keys:

Press the CLEAR key. Entry using the digit keys can now be restarted.

**Notes on the track time search function**

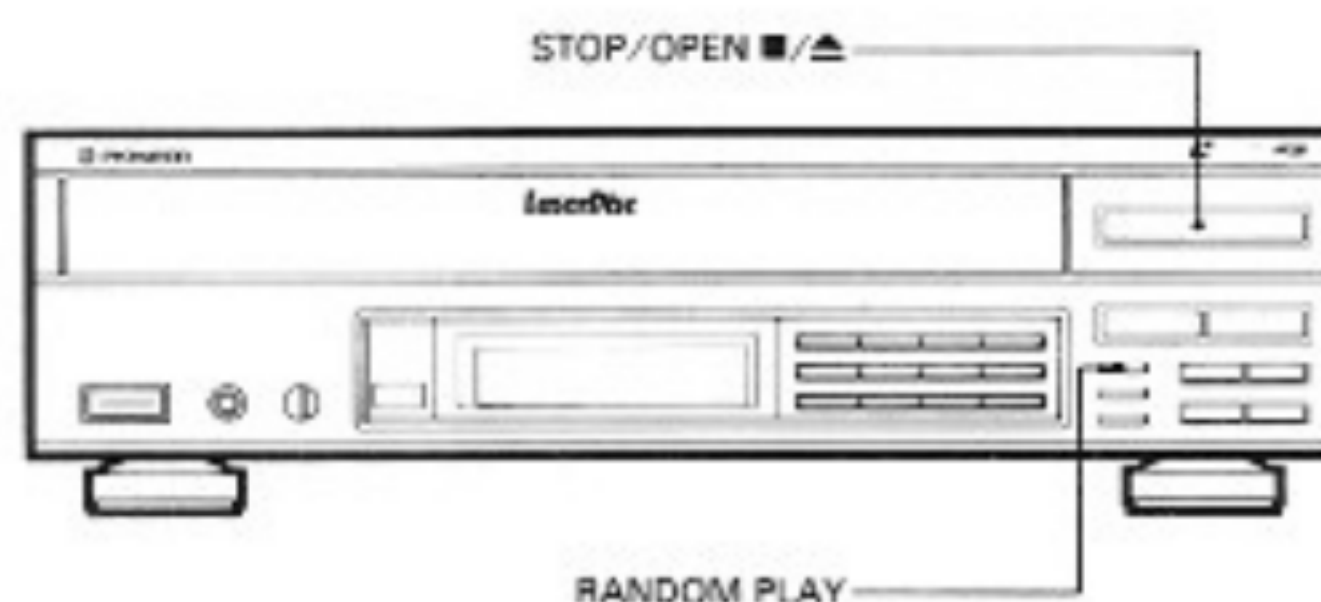
- When the specified track time exceeds the recorded track time, playback starts from the beginning of the next track.
- When the specified track time of the last track exceeds the recorded track time, the unit enters pause mode and "End" is displayed.

**Sound during search:**

Recorded audio is heard at a small volume level while the fast forward or fast reverse key is held depressed during playback.

## TO LISTEN TO ALL TRACKS IN A RANDOM ORDER (Random Playback)

Random Playback allows all tracks to be played in a random order.

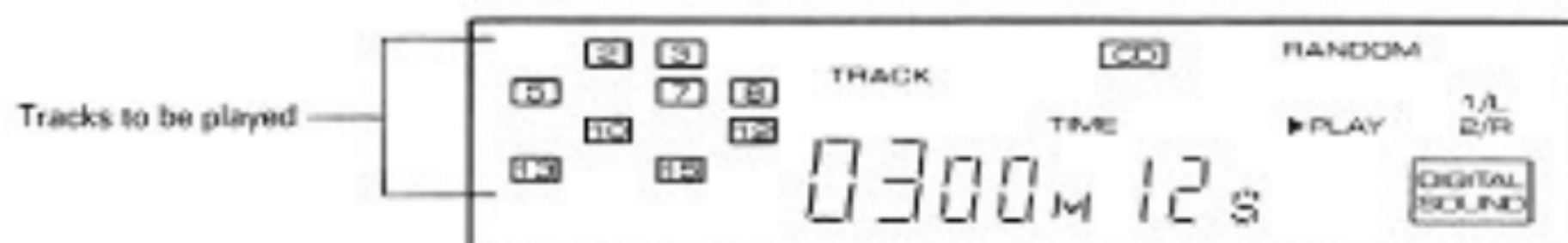
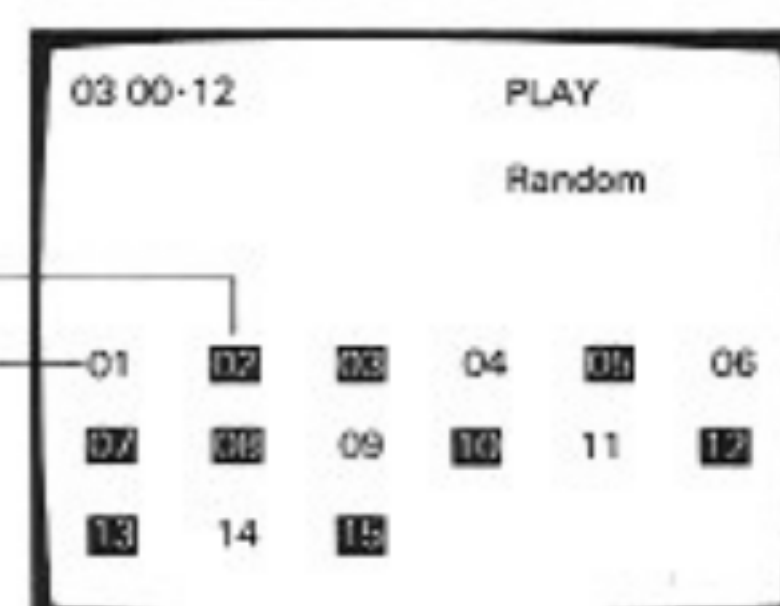


All tracks on the disc are played once in a random order.

When all tracks have been played, the player enters stop mode.

- When the RANDOM PLAY button is pressed during random play, playback restarts in another random order.

Display during Random Play



### To go to the next track during Random Playback:

Press the **▶▶** key.

(The previous track cannot be played by pressing the **◀◀** button.)

### To stop Random Playback:

Press the CLEAR key.

After the CLEAR key is pressed, playback will continue from track located directly after the track currently being played, and the remaining tracks on the disc will be played in the order in which they are recorded on the disc.

### To enter stop mode:

Press the STOP/OPEN **■/▲** button.

### Random Playback with CDV discs:

Tracks in the video and audio part are played in a random order.

### Timing of pressing the RANDOM button:

If playback is started automatically by closing the disc table, press the RANDOM PLAY button only after the PLAY indicator in the front panel display window has stopped blinking. If the RANDOM PLAY button is pressed immediately after the disc table is closed, Random Playback operation may not take place.

### To repeat Random Playback:

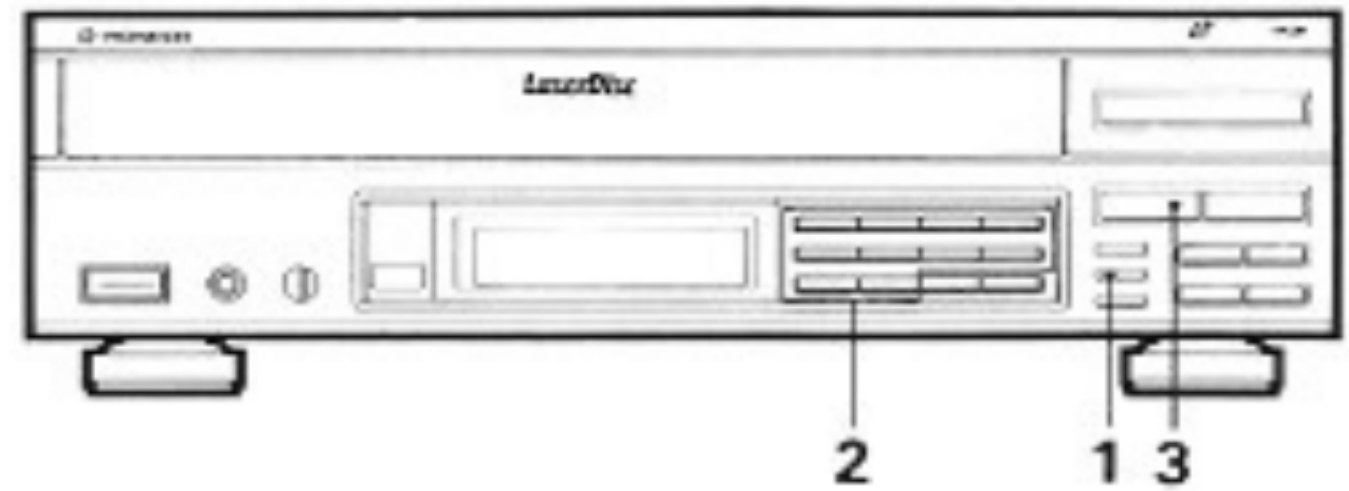
Press the REPEAT **B** key during Random Playback.

To exit repeat mode, press the CLEAR or REPEAT **B** key.



## PROGRAMMING TRACKS TO BE PLAYED BACK WITHIN A SPECIFIED TIME PERIOD (Auto Program Editing)

If the playing time is specified, the tracks are automatically programmed into the player within the designated time, starting from the first track.



### 1 Press the AUTO PGM EDITING button.



- When the AUTO PGM EDITING button is pressed during playback, the player enters pause mode.

### 2 Set the playing time in minutes with the digit keys (0-9).



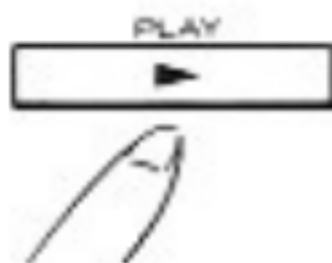
To enter 10 minutes or above:

Press two digit keys rapidly. For example, to enter 32 minutes, press the **3** key and **2** key sequentially.

- To program several Editing Times, repeat steps 1 and 2.

### 3 Press the PLAY ► key.

Program playback starts.



When playback of the first program is completed, the player enters pause mode. To play another program, press the PLAY ► key or PAUSE ■■ key.

When all programs have been played, the player enters stop mode.

To clear program contents:

Press the CLEAR key.

To specify the first track to be programmed:

Only the track to be played first can be specified.

- Press the AUTO PGM EDITING button.
- Select the desired track by pressing the CHAPTER SKIP/ TRACK SEARCH ◀◀ or ▶▶ key.
- Set the playing time with the digit keys.

If the specified time is too short for any track to be programmed:

Programming cannot be performed.

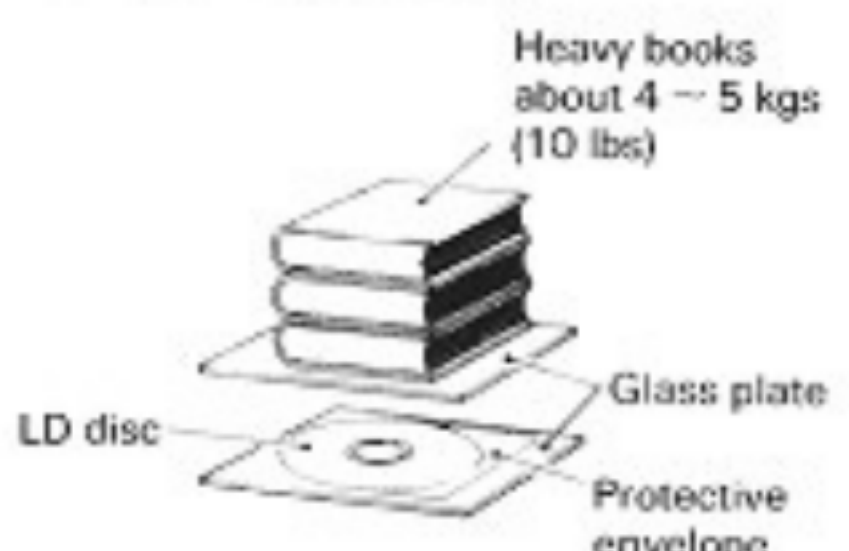

## TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Inspect the other components and electrical appliances being used.

If the trouble cannot be rectified even after executing the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

SYMPTOM	CAUSE	REMEDY
1. Disc table is not ejected when STOP/OPEN button is pressed.	<ul style="list-style-type: none"> <li>Power cord is not properly plugged into AC wall socket.</li> <li>Power switch is not turned on.</li> </ul>	<ul style="list-style-type: none"> <li>Plug in power cord.</li> <li>Turn on power switch.</li> </ul>
2. Disc table comes out.	<ul style="list-style-type: none"> <li>Disc is dirty.</li> <li>The disc is not properly set on the disc table.</li> <li>Moisture has condensed on parts in the player.</li> <li>Disc is warped.</li> </ul>	<ul style="list-style-type: none"> <li>Refer to instructions under "Remedy", item 9, and clean disc.</li> <li>Set the disc properly.</li> <li>Remove disc and let player stand for 1 to 2 hours until it is dry.</li> <li>Correct the disc. (Refer to Symptom 9, remedy column.)</li> </ul>
3. TV no longer receives other channels after it has been connected to the player.	<ul style="list-style-type: none"> <li>Antenna cable has not been connected.</li> <li>LDP mode is selected.</li> </ul>	<ul style="list-style-type: none"> <li>Connect VHF antenna cable to antenna terminal on the player.</li> <li>Select the TV mode by pressing the TV/LDP key or turning off the player's POWER switch.</li> </ul>
4. Slanting stripes appear on the TV screen when TV/LDP key is pressed to receive TV broadcasts.	<ul style="list-style-type: none"> <li>Electric field for TV broadcasting is weak. (This does not indicate any trouble.)</li> </ul>	<ul style="list-style-type: none"> <li>Turn off the POWER switch of the player. We recommend that you turn off the POWER switch of the player, whenever you intend to watch TV for a long time.</li> </ul>
5. Remote control does not work.	<ul style="list-style-type: none"> <li>The CONTROL IN terminal on the rear panel is used.</li> <li>Batteries are weak.</li> <li>There is an obstacle between the player and the remote control unit.</li> <li>Remote control unit is not in a good location for transmission.</li> </ul>	<ul style="list-style-type: none"> <li>Remove the connector plug.</li> <li>Replace batteries.</li> <li>Remove the obstacle or shift the remote control position.</li> <li>Operate the remote control unit in front of the player.</li> </ul>
6. Operation of the remote control unit causes the TV to operate improperly.	<ul style="list-style-type: none"> <li>Some TV sets have remote control functions that operate improperly in response to the remote control unit of the player.</li> </ul>	<ul style="list-style-type: none"> <li>Move the TV and the player further apart, or cover the remote sensor of the TV during disc playback.</li> </ul>

## WHEN A LASERVISION DISC IS BEING PLAYED

SYMPTOM	CAUSE	REMEDY
7. Disc is rotating but there is no picture.	<ul style="list-style-type: none"> <li>The TV set is not turned on.</li> <li>Wrong connections from player to TV.</li> <li>TV set is not tuned to channel 3 or 4.</li> <li>Player CHANNEL SELECTOR is at the wrong setting.</li> <li>The television is not properly tuned.</li> <li>TV mode is selected.</li> </ul>	<ul style="list-style-type: none"> <li>Turn on TV.</li> <li>Make correct connections.</li> <li>Set TV to the channel (3 or 4) that is not used for TV broadcasting in your area.</li> <li>Set selector to same channel as the TV's vacant channel.</li> <li>Tune the television properly. (Refer to the User's Manual for the television.)</li> <li>Select the LDP mode by pressing the TV/LDP key on the remote control unit.</li> </ul>
8. Picture continuously moves vertically.	<ul style="list-style-type: none"> <li>The TV vertical hold control is not adjusted properly.</li> </ul>	<ul style="list-style-type: none"> <li>Adjust vertical-hold control on TV.</li> </ul>
9. Particular disc does not playback properly. The playback stops in the middle of the disc program.	<ul style="list-style-type: none"> <li>The playing surface of the disc is dirty.</li> <li>The disc is warped.</li> </ul>	<ul style="list-style-type: none"> <li>Use a soft cloth and lightly wipe off the dirt from the surface of the disc. If necessary, moisten a cloth with diluted neutral detergent to remove heavy dirt or fingerprints.</li> <li>LD discs only Put the disc into the protective envelope, then place it on a flat desk top. Subsequently, place a flat board e.g. glass plate on the disc, and load it with about 4 ~ 5 kgs (about 10 lbs). If it is left in this state for one day, sometimes the warp will be alleviated.</li> </ul> 
10. Sound is unnatural or distorted.	<ul style="list-style-type: none"> <li>CX system is turned ON for disc which has no  mark.</li> </ul>	<ul style="list-style-type: none"> <li>Press CX key to turn CX system OFF.</li> </ul>
11. No sound output during playback.	<ul style="list-style-type: none"> <li>MULTI-SPEED playback is being performed.</li> <li>Sound is output only during the normal play mode. The audio signals are not output during other playback modes.</li> </ul>	<ul style="list-style-type: none"> <li>Press the PLAY key.</li> <li>Set to normal play mode.</li> </ul>

# TROUBLESHOOTING

SYMPTOM	CAUSE	REMEDY
12. During STILL playback, a part of the screen image shakes.		<ul style="list-style-type: none"> <li>Even if the disc is a standard play disc, there may be some cases in which a fully still image cannot be obtained, but this does not mean that the player or the disc is defective.</li> </ul>
13. CHAPTER SKIP, CHAPTER PROGRAM PLAY and CHAPTER NUMBER SEARCH cannot be performed.	<ul style="list-style-type: none"> <li>Disc in which no chapter numbers are recorded is loaded.</li> </ul>	<ul style="list-style-type: none"> <li>Press DISPLAY key to check if chapter number is displayed.</li> </ul>
14. A considerable length of time is required for searching before playback begins.	<ul style="list-style-type: none"> <li>It takes time to read the recorded code, depending on the disc.</li> </ul>	<ul style="list-style-type: none"> <li>Press CLEAR key and picture will appear. (At this point, a slightly different scene from that which has been searched for may appear.)</li> </ul>
15. Certain discs take too long to start or do not start.	<ul style="list-style-type: none"> <li>There are errors when the disc code is read (There is no damage to the unit).</li> </ul>	<ul style="list-style-type: none"> <li>Press the STOP/OPEN button and stop the playback. Press the PLAY button and start the playback again. (Repeat this operation a few times.)</li> </ul>
16. The player takes too long to find point A during A-B (INTERVAL) REPEAT operation.	<ul style="list-style-type: none"> <li>Same as item 14 above.</li> </ul>	<ul style="list-style-type: none"> <li>Same as item 14 above. (The repeat mode is cancelled).</li> </ul>
17. Picture other than instructed is searched in TIME NUMBER SEARCH mode.	<ul style="list-style-type: none"> <li>Method of inputting numerals in the TIME NUMBER SEARCH mode differs, depending on whether time number is recorded on disc in minutes or minutes and seconds, as shown below: [e.g.] 12-minute search</li> <li>Disc in which time number is recorded in minutes</li> </ul> <div style="text-align: center;"> <p>CHAPTER/FRAME-TIME [1] [2] SEARCH/MEMORY "minutes"</p> </div> <ul style="list-style-type: none"> <li>Disc in which time number is recorded in minutes and seconds</li> </ul> <div style="text-align: center;"> <p>CHAPTER/FRAME-TIME [1] [2] [0] [0] SEARCH/MEMORY "minutes" "seconds"</p> </div>	

## WHEN PLAYING BACK A COMPACT DISC

SYMPTOM	CAUSE	REMEDY
18. Player stops immediately after playback is started.	<ul style="list-style-type: none"> <li>• Disc is loaded upside down (CD, CDV, one-sided LD discs).</li> <li>• The playing surface of the disc is dirty.</li> <li>• Disc is not properly loaded on the disc table.</li> </ul>	<ul style="list-style-type: none"> <li>• Load the disc correctly with the label side upward.</li> <li>• Use a soft cloth and lightly wipe off the dirt from the surface of the disc. If necessary, moisten a cloth with diluted neutral detergent to remove heavy dirt or fingerprint.</li> <li>• Reload the disc.</li> </ul>
19. No sound output	<ul style="list-style-type: none"> <li>• The stereo amplifier is not correctly connected.</li> <li>• You are not operating the stereo amplifier correctly.</li> <li>• The connection terminals and/or the plugs of the connection cords are dirty.</li> <li>• The plugs of the connection cords are disconnected, or are not fully pushed in.</li> <li>• The player is in pause mode.</li> </ul>	<ul style="list-style-type: none"> <li>• Connect the amplifier correctly.</li> <li>• Refer to the operating instructions for the amplifier, and operate the amplifier correctly.</li> <li>• Clean the plugs and terminals and connect again.</li> <li>• Make sure that connections are made correctly.</li> <li>• Press the PAUSE key again and restore the player to play mode.</li> </ul>
20. Sound is distorted.	<ul style="list-style-type: none"> <li>• The connection terminals and/or the plugs of the connection cords are dirty.</li> <li>• The plugs of the connection cords are not fully pushed in.</li> <li>• The playing surface of the disc is dirty.</li> </ul>	<ul style="list-style-type: none"> <li>• Clean the plugs and terminals and connect again.</li> <li>• Push the plug in firmly.</li> <li>• Use a soft cloth and lightly wipe off the dirt from the surface of the disc. If necessary, moisten a cloth with diluted neutral detergent to remove heavy dirt or fingerprints.</li> </ul>

# SPECIFICATIONS

## 1. General

System	LaserVision Disc system and Compact Disc digital audio system
Laser	Semiconductor laser wavelength 780 nm
Power requirements	
U.S. and Canadian models	AC 120V, 50/60 Hz
U.S. Military model	AC 110V/120-127V/220V/240V or AC 110V/120V/220V/240V (Switchable), 50/60 Hz
Power consumption	
U.S. and Canadian models	37W
U.S. Military model	40W
Weight	7.5 kg (16 lbs 9 oz)
Dimensions	420(W) x 416(D) x 122(H) mm 16-9/16(W) x 16-3/8(D) x 4-13/16(H) in
Operating temperature	+5°C — +35°C (41°F — 95°F)
Operating humidity	5% — 90% (There should be no condensation of moisture.)

## 2. Disc

### LaserVision Discs

#### \*Maximum playing times

12-inch standard play disc	1 hour/both sides
12-inch extended play disc	2 hours/both sides
8-inch standard play disc	28 min/both sides 14 min/one side
8-inch extended play disc	40 min/both sides 20 min/one side

#### Spindle motor speed

Standard play disc	1,800 rpm
Extended play disc	1,800 rpm (inner circumference) to 600 rpm (outer circumference) (For a 12-inch disc)

### Compact Discs

Disc	Diameter: 5-inch, 3-inch, Thickness: 1.2 mm
Rotation direction (pickup side)	Counterclockwise
Linear speed	1.2 — 1.4m/sec

#### \*Maximum playing time

60 min. or more:	5-inch discs
20 min. or more:	3-inch discs
	(For stereo playback)

### Compact Discs with Video

Disc	Diameter: 5-inch, Thickness: 1.2 mm
Rotation direction (pickup side)	Counterclockwise
Linear speed	Audio portion: 1.2 — 1.4m/sec Video portion: 11 — 12m/sec
Maximum playing time	Video portion: 5 min. (CLV) Audio portion: 20 min. (Digital)

\* Actual playback time differs for each disc.

## 3. Video characteristics

Format	NTSC specifications
Video output	
Level	1 Vp-p nominal, sync. negative, terminated
Impedance	75Ω unbalanced
Jack	RCA jack
VHF output	
Channel	Channel 3 or 4 (switchable)
Impedance	75Ω unbalanced
Terminal	F-type jack

## 4. Audio characteristics

Output level	
During analog audio output	200 mVrms (1 kHz, 40%)
During digital audio output	200 mVrms (1 kHz, -20 dB)
Jacks	Both RCA jacks
Number of channels	2

### Digital Audio Characteristics

Frequency response	4 Hz — 20 kHz (+0.5 dB, -1.0 dB) (EIAJ)
SN ratio	100 dB (EIAJ)
Dynamic range	95 dB (EIAJ)
Channel separation	92 dB (EIAJ)
Wow and flutter	Limit of measurement (±0.001% W. PEAK) or less (EIAJ)

## 5. Other Terminals

Control input/output	Both miniature jacks
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## 6. Accessories

Remote control unit (CU-CLD017)	1
Size "AAA" (IEC R03) dry cell batteries	2
RF antenna cable	1
Video connecting cord	1
Audio connecting cord	1
Antenna adaptor (75Ω/300Ω → 75Ω F-type plug)	1
F-type jack — IEC plug adaptor (U.S. Military model only)	1
Operating instructions	1
Warranty card	1

## 7. Functions

### Remote control unit operations (CU-CLD017)

	Function	Standard Play Disc (CAV)	Extended Play Disc (CLV)	Compact Disc with Video	Compact Disc
Basic Functions	Single-side play Pause Stop	YES YES YES	YES YES YES	YES YES YES	YES YES YES
Search	Fast forward (forward and reverse) Chapter/Track skip Direct chapter/Track number search Frame number search Time number search	YES YES YES YES NO	YES YES YES NO YES	YES YES YES NO YES	YES YES YES NO YES
Program	Chapter/Track program play Program correction	YES YES	YES YES	YES YES	YES YES
Repeat	Repeat between 2 points Memory repeat Chapter/Track repeat One-side repeat Program repeat	YES YES YES YES YES	YES YES YES YES YES	YES YES YES YES YES	YES YES YES YES YES
Trick play	Still/Step Multi-speed (Forward/reverse 9-level variable)	YES YES	NO NO	NO NO	NO NO
Time display	Elapsed time display Absolute time display Remaining track time display Remaining total time display  Total number of selections, total time display	NO NO NO YES  YES (Only discs with TOC)	YES NO NO YES  YES (Only discs with TOC)	YES NO YES YES  YES	YES YES YES YES  YES
Others	CX system ON/OFF AUTO DIGITAL/ANALOG switch TV/LVP selection Audio channel selection (Stereo, 1/L, 2/R)	YES* YES** YES YES	YES* YES** YES YES	— — YES —	— — YES —

\* Valid for analog sound when playing a disc with the CX mark.

\*\* Can only be used with discs with digital sound tracks.

## PLAYER FUNCTIONS

- Display, Visual Calendar Display
- Intro Scan, Random Playback and Auto Program Edit
- Digital Sound for LaserVision Discs

### NOTE:

The specifications and design of this product are subject to change without notice, due to improvement.

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