

Operating Instructions

CD CDV LD PLAYER

LaserDisc

CLD-J720

NTSC

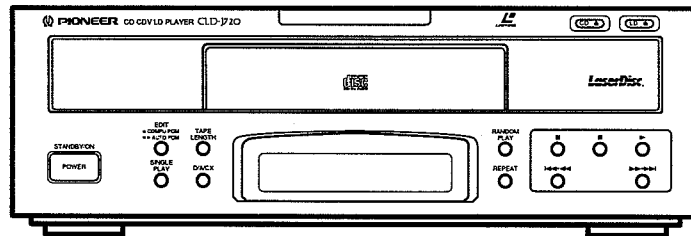
CLD-J420

PAL/NTSC

COMPACT
disc
DIGITAL AUDIO

L
LASER DISC

- This player does not apply to business use, and CD-ROM/CD graphic discs cannot be played with this player.



The illustration shows CLD-J720.

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.

THE POWER SWITCH IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION.

"This product complies with the Radio Interference requirements of the EC (European Community) Directive 87/308/EEC."

CAUTION: This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

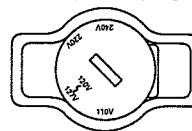
LINE VOLTAGE SELECTOR SWITCH

Only multi-voltage models are provided with this switch. U.K. model is not provided with this switch. Mains voltages in Saudi Arabia are 127V and 220V only. Never use this model with a 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:

1. Use a medium-sized (flat blade) screwdriver.
2. 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.

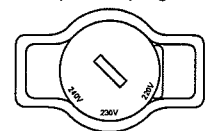
<Flat blade 2-pin AC plug model>



VOLTAGE SELECTOR

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

<Round 2-pin AC plug model>



VOLTAGE SELECTOR

(Figure shows arrow pointing to 230 volts.)

IMPORTANT



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

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 to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

PIONEER
The Art of Entertainment

IMPORTANT

If the apparatus is fitted with AC mains power outlet(s), see REAR PANEL FACILITIES for convenient connection of additional Hi-Fi component(s). Make all connections to the AC outlet(s) and the signal terminals first. Connect the plug to the wall socket last (make sure that the power switch is off.)

FOR USE IN THE UNITED KINGDOM

WARNING: This plug must only be connected to electronic apparatus equipped with suitable sockets. If not, cut off the plug and fit an appropriate type in accordance with the instructions below. The cut-off plug must be disposed of as an electrical shock hazard could exist if connected to a socket outlet.

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured marking identifying the terminals in your plug proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Do not connect either wire to the earth terminal of a three pin plug.

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

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

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

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.

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

(LASERDISC SYSTEM)/(LaserVision Disc)*



This is the unified symbol mark of LASERDISC (LaserVision videodisc).

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

(Compact Disc)



(**CD VIDEO SYSTEM)



(8 cm Compact Disc)



**A Digital Audio with Multi Audio Disc (CD VIDEO LD) and a CDV (CD Video CDV) are referred to as CD Video discs. CD Videodiscs are recorded with subcodes, which are the non-audio recordings of TOC data such as track numbers, index numbers, etc. However, there are some discs without these marks.

Only one disc can be loaded at any one time. Loading a LaserVision Disc, a Compact Disc, an 8 cm 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.

[NOTE FOR MODEL CLD-J720]

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.

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

CAUTION

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

The following caution label appear on your player.

Location: On the rear panel of the player

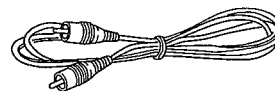
CLASS 1
LASER PRODUCT

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BEFORE OPERATING

Confirm supplied accessory



Video cord	
CLD-J720	2
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CAUTIONS REGARDING HANDLING

Location

Install the player in a well-ventilated location where it will not be exposed to high temperature or humidity.

Do not install the player in a location which is exposed to direct sunlight, or near hot appliances or radiators. Excessive heat can adversely affect the cabinet and internal components. Installation of the player in a damp or dusty environment may result in malfunction or accident. (Also avoid installation near cookers etc., where the player may be exposed to smoke from oil, steam or heat.)

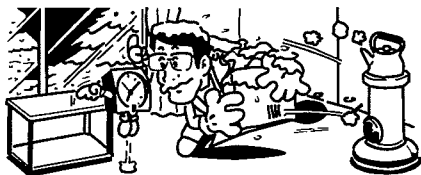


Precautions regarding installation

- Placing and using the player for long periods on heat-generating sources such as amplifiers will affect performance. Avoid placing the player on such heat-generating sources.
- Install the player as far away as possible from TV sets. The player installed in close proximity to such equipment may cause noise or degradation of the picture. Such noise may be particularly noticeable when an indoor antenna is used. In such a case, make use of an outdoor antenna, or turn off the power to the player.

Condensation

When the player is brought into a warm room from previously cold conditions or when the room temperature is suddenly increased, condensation may form inside and the player may not be able to attain its full performance. In cases like this, allow the player to stand for about an hour or raise the room temperature gradually.



If it becomes necessary to transport or ship this unit in the future, be sure to first remove the disc (if present), retract the disc table to its closed position, turn the power off, and, after the “-OFF-” indicator stops blinking on the display, disconnect the power cord.

INSTALLING THE PLAYER

- Place the 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.

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.

AVOID SOURCES OF HEAT

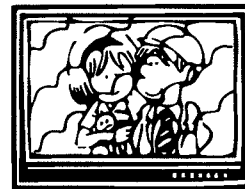
Do not put the player on sources of heat. When installing with audio components on a rack, avoid components that generate heat, by placing the player below such components where there is adequate ventilation and not much dust. Avoid placing the player on surfaces such as shaggy carpets, beds, and sofas 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 button on the player or the remote control player 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

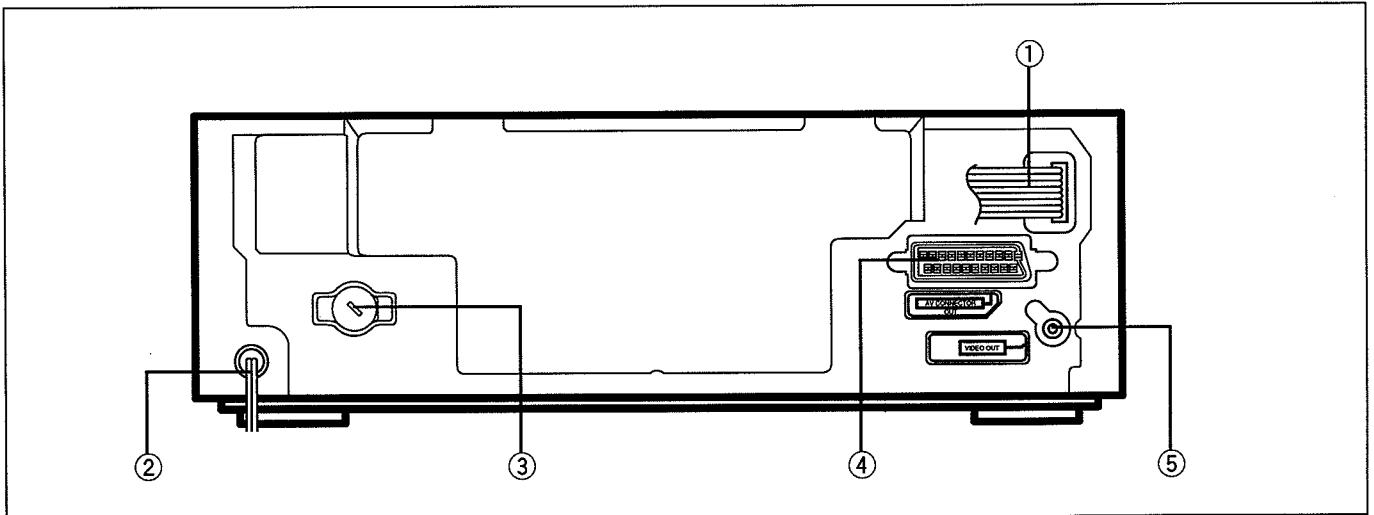
Stripe patterns may appear during a TV program if the player is turned on, depending on the quality of reception of the TV station. This is neither a malfunction of the television nor the player. If stripes appear while watching the TV, or when watching the TV for long periods of time, turn the player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



Maintenance of external surfaces

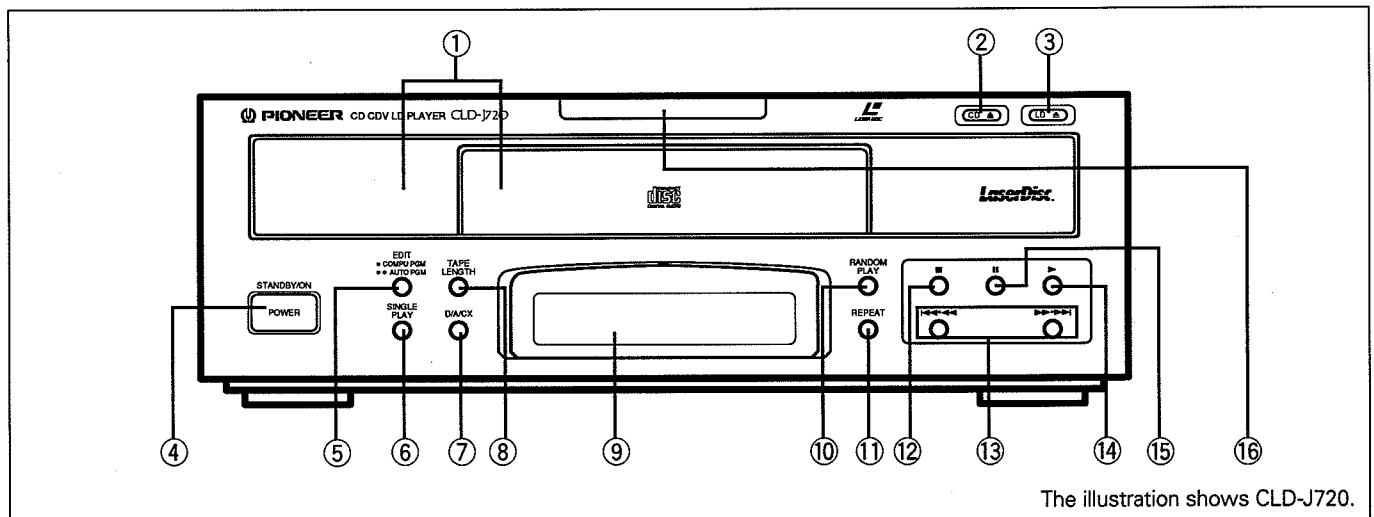
- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays and other chemicals on or near this player, since these will corrode the surfaces.

REAR PANEL FACILITIES



- ① **System cable**
Connect the stereo tuner amplifier's CLD jack (blue).
- ② **Power cord**
Connect to the stereo tuner amplifier's AC OUTLET.
- ③ **VOLTAGE SELECTOR (CLD-J720 only)**
Set the power voltage in your area.
- ④ **AV CONNECTOR OUT jack (CLD-J420 only)**
Connect using the Euroconnector cable.
- ⑤ **VIDEO OUT jack**
Connect to the VIDEO input jack of the TV.

FRONT PANEL FACILITIES

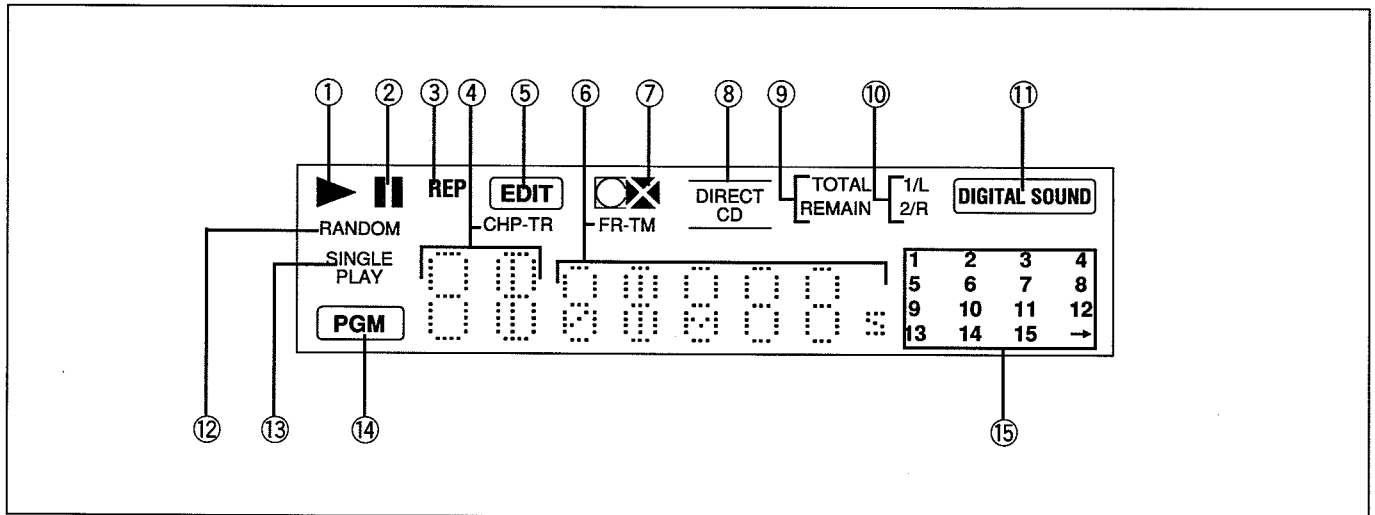


The illustration shows CLD-J720.

- ① **Disc tables**
- ② **CD open/close button (CD ▲)**
- ③ **LD open/close button (LD ▲)**
- ④ **POWER STANDBY/ON switch**
- ⑤ **EDIT button**
- ⑥ **SINGLE PLAY button**
- ⑦ **[CLD-J720] D/A/CX button**
[CLD-J420] REPEAT button
- ⑧ **TAPE LENGTH button**
- ⑨ **Display window**
- ⑩ **[CLD-J720] RANDOM PLAY button**
[CLD-J420] TV SYSTEM button (_ PAL/ ■ NTSC)
- ⑪ **[CLD-J720] REPEAT button**
[CLD-J420] 16 : 9 button
- ⑫ **Stop button (■)**
- ⑬ **Manual/Track search buttons (◀◀ . ◀▶▶ . ▶▶▶)**
- ⑭ **Play button (▶)**
- ⑮ **Pause button (II)**
- ⑯ **[CLD-J720] Laser Window**

FRONT PANEL FACILITIES

Display section

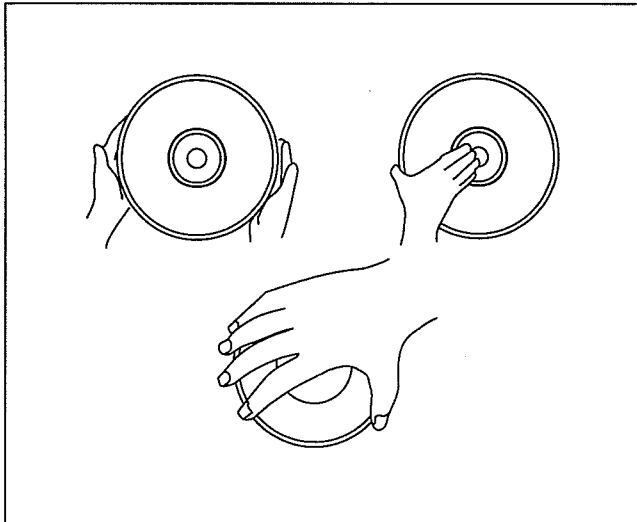


- ① **Play indicator (▶)**
Lights during play. Blinks during search.
- ② **Pause indicator (||)**
Lights when the player is in pause mode.
- ③ **REP indicator**
Lights during repeat play.
- ④ **Chapter/track indicator (CHP-TR)**
Indicates the chapter number or track number.
- ⑤ **EDIT indicator**
Lights when editing is performed.
- ⑥ **Frame/time indicator indicator (FR-TM)**
Indicates the frame number or the elapsed time.
- ⑦ **CX indicator**
Lights when CX is ON.
- ⑧ **DIRECT CD indicator**
Lights when the CD disc table is being moved, or CD or CDV disc is being played back.
- ⑨ **REMAIN/TOTAL indicator**
Indicates the REMAIN TIME (remaining play time) or TOTAL TIME (total play time).
- ⑩ **1/L, 2/R indicator**
Indicates the audio output channel.
- ⑪ **DIGITAL SOUND indicator**
Lights when the disc being played has a digital sound signal. With LD discs, this indicator lights when the digital sound signal is selected.
- ⑫ **RANDOM indicator**
Lights during random play.
- ⑬ **SINGLE PLAY indicator**
Lights during single play.
- ⑭ **PGM indicator**
Lights during program play and programming.
- ⑮ **CD/CDV/LD visual calendar**
When a disc is loaded, all of the chapter/track numbers recorded on the disc light up on the display. If the disc contains more than 15 chapters/tracks, the → indicator lights.
During program play, only the programmed chapter/track numbers light. When a disc without a TOC section is played, only the selection number being played lights. After a chapter/track is finished playing, the corresponding number goes out.

CARE OF DISCS

How to hold discs

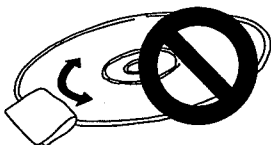
When loading or removing discs, try not to touch their playing surfaces.



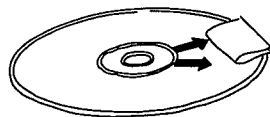
Cleaning

Fingerprints or other dirt on the disc may affect sound and picture quality.

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.



Do not wipe in a circular direction

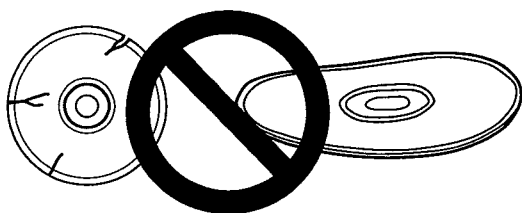


Gently wipe from the inside toward the outer edge.

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

NEVER PLAY CRACKED OR WARPED DISCS.

- The disc revolves in 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.



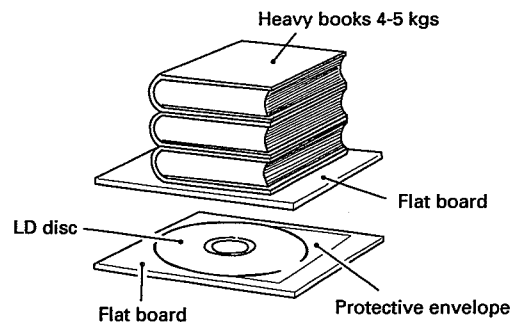
After using discs, store them upright

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.

If an LD disc is warped...

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



CAUTION WHEN USING THE DISC

All rights reserved.







Unauthorized public performance, broadcasting or copying is a violation of applicable laws.



- **Never move the player when it is operating.**
During player operation, the disc moves at very high speed; never attempt to lift or move the player while it is operating, since it may cause damage to the disc.
- **When moving the player:**
When moving the player or repacking it for storage or shipping, be sure to remove any discs loaded, and push the disc table back into the player. Then turn off the power switch and confirm that the OFF display has stopped flashing before disconnecting the power cord.


TYPES OF DISCS THAT CAN BE PLAYED WITH THIS UNIT

This unit is a CD VIDEO SYSTEM (*1) compatible player which can play CDs, CDV discs, and LDs. The five disc types listed in the table below can be played with this unit.

- The marks shown in the left column are printed on the labels and jackets of the corresponding discs.

Mark	Disc	Size	Number of recorded sides	Audio recording system	Video recording system	Other
	CD (Compact Disc) Single	8 cm	One side	Digital (20 minutes max.)		TOC (*2)
	CD (Compact Disc)	12 cm	One side	Digital (74 minutes max.)		TOC
 or 	CDV VIDEO SINGLE 	12 cm	One side	Digital (5 minutes max.)	CLV (*3) (5 minutes max.)	TOC *
	CDV (CD with Video)	12 cm	One side	Digital (20 minutes max./ 5 minutes max.)	CLV (*3) (5 minutes max.)	TOC *
	CD VIDEO LD (*4)	30 cm, 20 cm	Two sides, one side	Digital/analog	CAV (*5) CLV	TOC **
	LD (LASERDISC/ LaserVision Disc)	30 cm, 20 cm	Two sides, one side	Digital/analog (*6) or analog only	CAV, CLV	

* There are some discs marked with the  mark instead of the  mark.

** There are some discs without the  mark.

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 CDV disc. Track numbers can be used to search for desired tracks (Track Search).

TOC (*2)

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.

CD VIDEO SYSTEM (*1)

The CD VIDEO SYSTEM is the standard name for the "optical video disc with digital audio" system that encompasses both LDs and CDV discs.

The following mark is the standard mark for the CD VIDEO SYSTEM and is found on all players and discs which conform to the CD VIDEO SYSTEM format.

The following systems are included in the CD VIDEO SYSTEM:



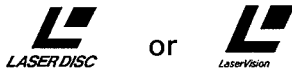
- CDV (CD VIDEO CDV) discs
- LaserVision Discs (CD VIDEO LDs) containing digital sound with sub-codes
- Compatible players which can play CDs and CDV discs
- Compatible players which can play CDs, CDV discs, and LDs

CD VIDEO LDs (*4)

A CD VIDEO LD is an LD with digital audio which is encoded with sub-codes (data such as TOC and track number data, excluding audio and video signals).

LDs (LASERDISCS)

With this unit, only play LaserDiscs which bear the following mark.



This mark is the standard mark for LaserDiscs.

Players and discs which bear the LaserVision mark are mutually compatible as long as they conform to the same television system.

Two types of standard LaserDisc are available — CAV (*5) discs and CLV (*3) discs — which differ with respect to their signal recording systems.

CAV (Constant Angular Velocity) (*5) DISCS

The jackets and labels of these discs are marked with a "CAV" indication.

Frames are recorded on these discs at a ratio of one frame per disc revolution, and the discs are played at a fixed rotational speed.

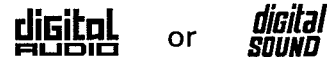
CLV (Constant Linear Velocity) (*3) DISCS

The jackets and labels of these discs are marked with a "CLV" indication.

Signals are recorded on these discs at a constant linear velocity (CLV), and the rotational speed during playback varies from the innermost track to the outermost track.

LASERVISION DISCS WITH DIGITAL AUDIO (*6)

The jackets and labels of these discs bear the following mark.



These are LaserDiscs which contain digital audio signals in addition to conventional analog audio signals. This feature allows the high image quality of LaserDiscs to be enjoyed together with the superior quality of digital sound. The digital and analog audio signals are recorded on the disc using different frequency bands.

LASERVISION MULTI AUDIO DISCS WITH DIGITAL AUDIO

The jackets and labels of these discs bear the following mark.

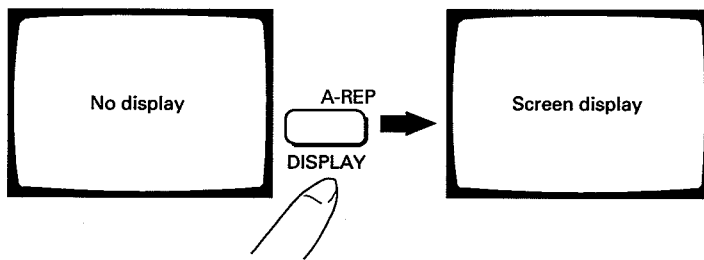


These are LaserDiscs in which the recorded digital and analog audio signals differ in content. This allows the user to enjoy two different audio soundtracks by switching between the digital and analog sound.

CDV (COMPACT DISC WITH VIDEO) DISCS

These are compact discs which also contain video signals. Of the total 25-minute playback time of a CDV disc, 20 minutes is encoded with conventional CD digital audio signals (the "audio part"). The remaining 5 minutes is encoded with both video and digital audio signals (the "video part").

DISPLAY SWITCHING



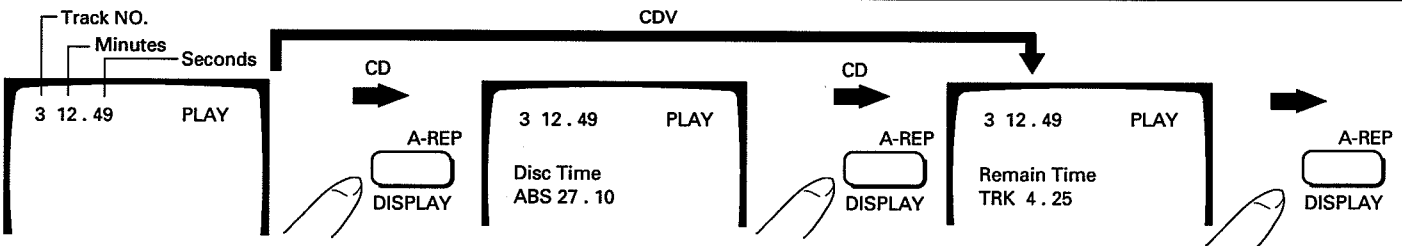
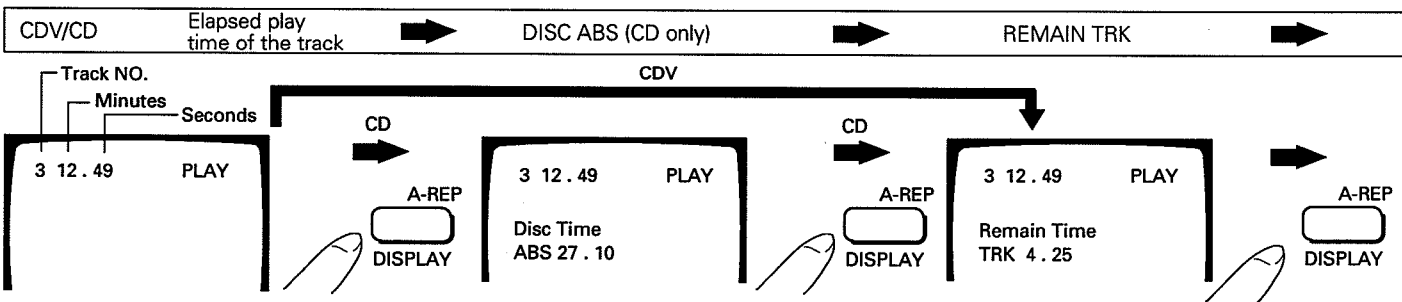
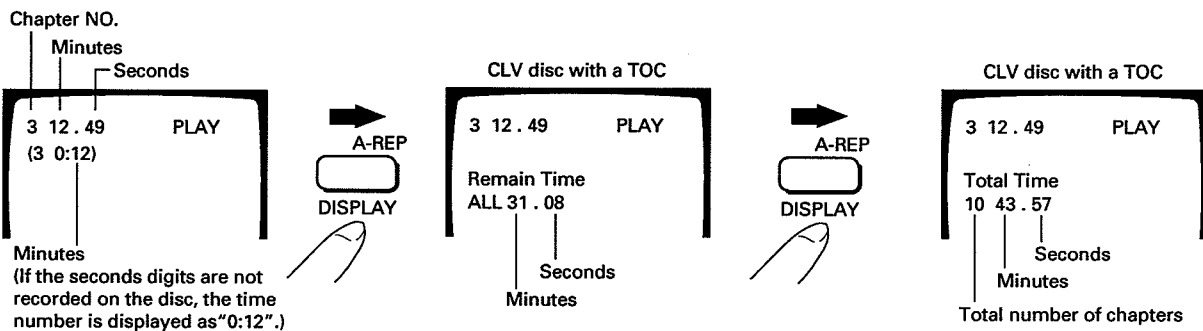
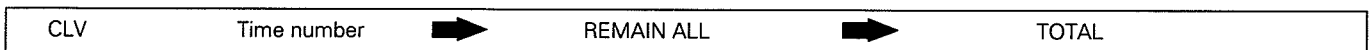
Information regarding the operations being carried out can be displayed on the screen of the monitor TV. When DISPLAY on the remote control unit is pressed the first time, the screen display appears.

With LD discs containing a TOC ...

Each time DISPLAY 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.

- With CAV discs, the DISC ABS (elapsed play time from the beginning of the disc) is displayed after the frame number.

* The screen display illustrations showing below are those of CLD-J720.



Other displays (All screen displays of CLD-J420 are displayed in capital letters.)

Lights - Flashes	Function	Lights - Flashes	Function
Laserdisc OPEN	Opening of the LD disc table	Repeat Pgm. Rnd	Program random repeat
Compact disc OPEN	Opening of the CD disc table	Editing	Edit mode
CLOSE	Closing of the table	Auto	Auto program edit
STOP	Stop mode	Compu	Compu program edit
PLAY	Play mode	Tape A, B	Total recording time for each side
PAUSE	Pause mode	Peak***	Peak search (during A.S.E.S. operation only)
Search	Search	Normal ASES**	Normal A.S.E.S.
STILL	Frozen picture	Fine ASES**	Fine A.S.E.S.
Frame	Frame number	Single	Single track stop
Time	Time number	Stereo	Stereo
CLV	CLV play	1/L	Main audio/Left channel
Program	Program mode	2/R	Sub audio/Right channel
Step-	Chapter/Track program step	CX ON	CX noise reduction system ON
Random	Random play	CX OFF	CX noise reduction system OFF
Pgm. Rnd	Program random play	-NTSC*	Using NTSC system disc
Repeat Memory	Memory repeat	-PAL*	Using PAL system disc
Repeat A-B	A-B repeat	PAL*	PAL system video output
Repeat Side -A (B)	One side repeat	NTSC 3.58*	NTSC system video output
Repeat Chapter (Track)	Chapter/track repeat	16:9*	With wide aspect type TV, expanding the picture
Repeat Random	Random repeat play		No sound an analog audio LD with PAL system.
Repeat Program	Program repeat		

*: For only CLD-J420.

** : ASES is referred to as "Auto Synchro Editing System. Refer to page 20.

***: "Peak" is displayed only when this player is used with the system which contains a tuner amplifier (SX-J720, SX-J420).

With LD discs not containing a TOC...

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

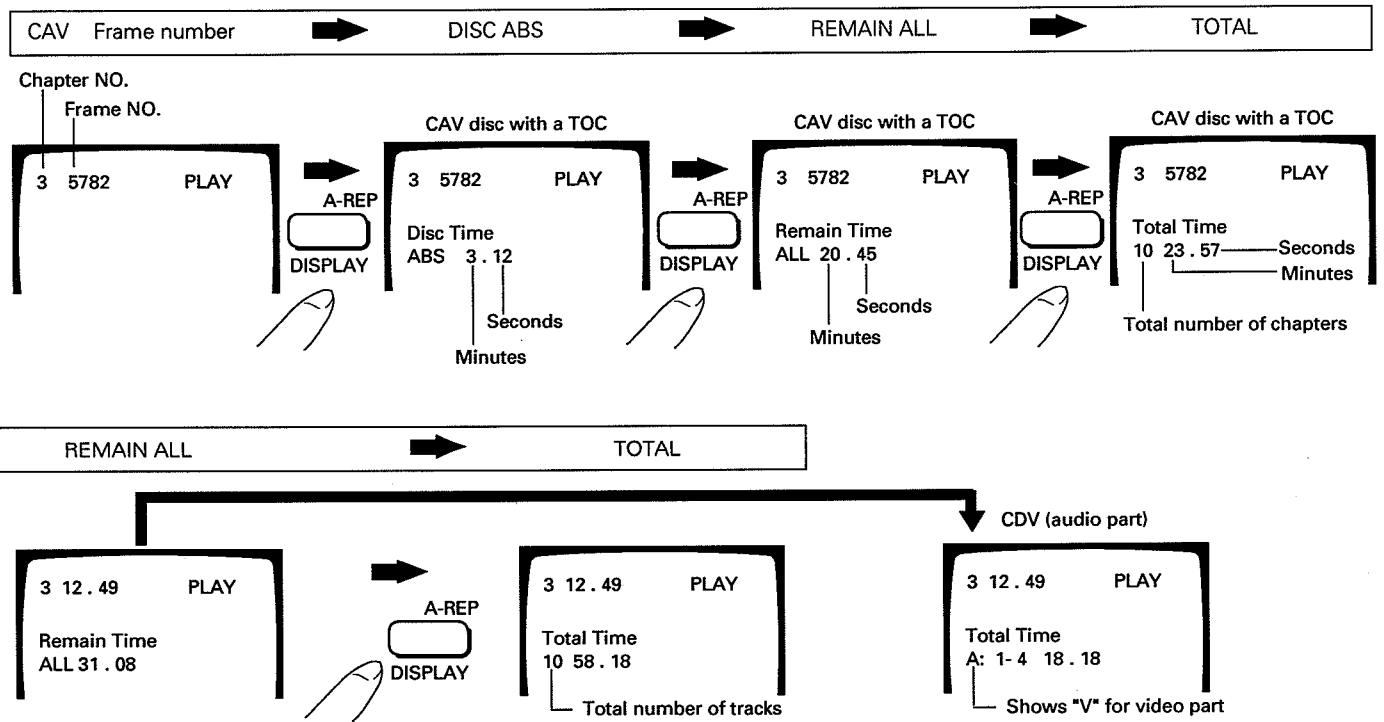
With CDV discs...

Each time DISPLAY 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) → display off.

With CD discs...

Each time DISPLAY 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) → display off.

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



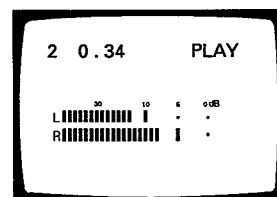
- During playback of the audio part of a CD or CDV, the visual calendar is displayed on the blue screen.
- During the direct CD mode, no screen display appears.

Audio output level meter display:

During elapsed play time of the track mode of CD playback or CDV (audio part) playback, the audio output level meter will be displayed on the monitor screen.

NOTE:

In some cases, the displayed output level may differ from the actual output level, but this is not a malfunction.



DISPLAY SWITCHING

TV SYSTEM button [CLD-J420 only]

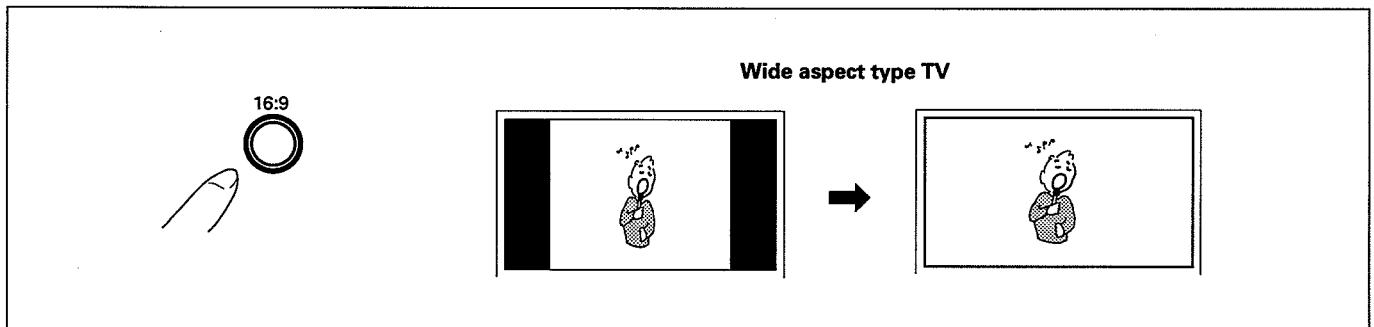


Set this button to "NTSC (■)" when this unit is connected to a TV with NTSC 3.58 to view PAL and NTSC discs.

NOTES:

- If an NTSC disc is played in PAL (■) mode;
 - The colour of the background turns black.
 - On some TVs, the picture may shrink vertically. This is not a malfunction but caused by the NTSC → PAL conversion.
 - In case the picture starts rolling, adjust the V-Hold control of your TV.
- When watching the picture of an NTSC disc with PAL/NTSC/SECAM system TV in AUTO mode, set the TV SYSTEM button to NTSC (■). Otherwise, noise appears on the screen during search.
- Please refer to the instruction manual supplied with your TV.

When using wide aspect type TV and playback squeezed LD [CLD-J420 only]

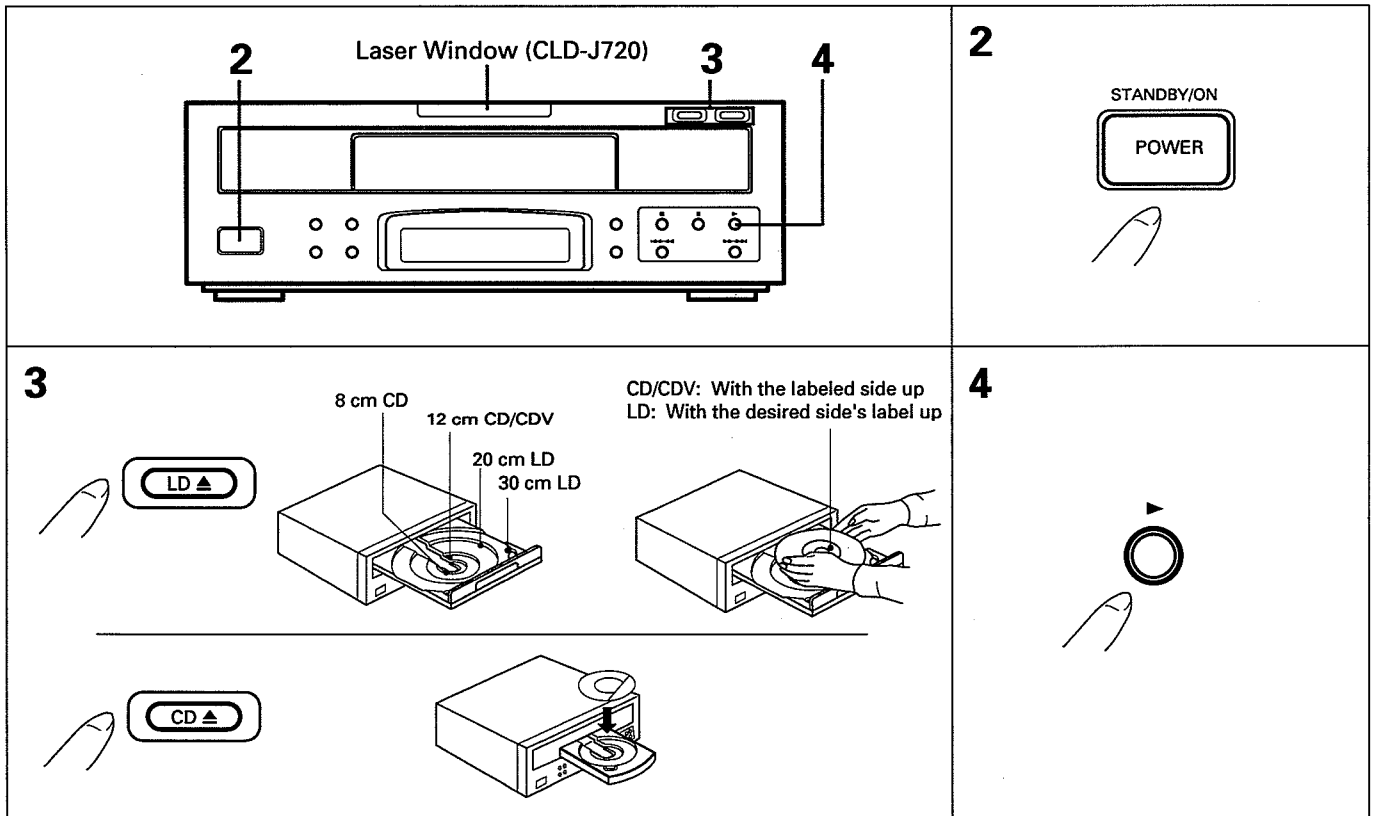


During playback, press the 16:9 button.
With discs of the squeezed LD, the picture is expanded suitable for the wide aspect type TV.

NOTES:

- On general screen (4:3) TV, with discs of the squeezed LD, the picture is shrunk horizontally.
- This function is carried out only when the AV CONNECTOR OUT terminal is connected. When only the VIDEO OUT jack is connected, this function is not carried out.
- When general screen (4:3) TV is connected to the AV CONNECTOR OUT terminal and the 16:9 button is pressed during playback, the input mode of the TV will change (such as TV tuner etc.).

TO PLAY AN LD, CDV OR CD



- When operating the player by means of the remote control unit supplied with the tuner amplifier or deck amplifier, first select the remote control unit's CONTROL MODE.

- Turn on the power to the monitor TV.
- Turn on the power for the stereo tuner amplifier and CD CDV LD player.
- Press LD ▲ or CD ▲ to open the disc table and load a disc.

As shown in the following diagram, place the disc on the disc table in the groove corresponding to the size of the disc. If the disc is not centered correctly on the disc table, the disc will not be played or the disc or the player may be damaged. Always place the disc correctly according to the required disc size on the disc table.

- Press ► to start playback.
 - With CDV discs, the video part is played first.

To pause playback temporarily

Press II. The sound and/or video image disappears. Press II again to resume playback from the position where pause mode was entered.

To stop playback

Press ■. When ► is next pressed, disc playback starts again from the beginning.

To take out the disc

Press LD ▲ or CD ▲. After removing the disc from the disc table, press LD ▲ or CD ▲, or ► to close the table.

[CLD-J720 only]

During playback of a 30 cm LD disc, the Laser Window lights up and the LaserDisc's mark appears. When playback is stopped, the Laser Window goes off. Except for a 30 cm LD disc, the Laser Window will not light.

To avoid malfunctions, be especially careful about the following points.

- Do not place any object other than a disc on the disc table.
- Do not move the player while a disc is playing. This will cause the disc to be scratched.
- Be careful not to catch your finger in the disc table section while the disc table is being retracted into the unit. Also, be careful that children do not put their hands into the inside of the unit while the disc table is open. This may cause injury.

Precautions concerning disc loading

- Do not place more than one disc on the disc table. If two discs are placed one on top of the other on the disc table, discs may be scratched and/or malfunction may occur.
- With this unit, playback of all types of discs is carried out without the use of adapters. Therefore, do not use any type of adapter with this unit.
- With CDs, CDV discs, and single-sided LDs, always be sure to load discs with the label side facing upward.

TO PLAY AN LD, CDV OR CD

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

During playback, press FM MONO · AUDIO or FM MONO · ST/L/R on the remote control unit.

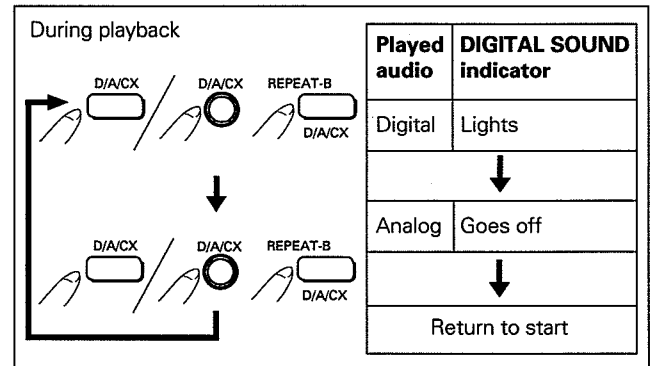
NOTE:

The button's name on the supplied remote control unit is different between the models of connected tuner amplifier or deck amplifier. Confirm the button's name before operating.



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		

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



Discs marked with the mark

Discs marked are recorded with the CX noise reduction system for powerful audio reproduction with little noise. (Analog audio only) However, some discs marked are not encoded with the signals necessary to instruct the unit to automatically switch on the CX system. If sound is noisy or undulates when a disc with a mark is played, press D/A/CX button on the remote control unit.

- is a trademark of CBS inc. This player meets the CX EXPANDING SPECIFICATION.

[CLD-J420 only]

NOTE:

D/A/CX is not carried out with LDs of PAL system.

CAUTION:

If analog audio disc with PAL system is played, no sound comes out. At this time, "ANALOGUE DISC NO SOUND" appears on the screen.

LD/CDV/CD

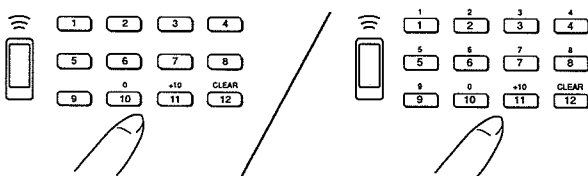
CONVENIENT FUNCTION FOR KARAOKE PLAY – Single Play

With this function, playback pauses after the specified track is played (One-Song Pause function).

1. Press the SINGLE PLAY button on the front panel.



2. Select a track with the digit buttons on the remote control unit.



- After one track is played, you can play another track by specifying the track number with the digit buttons.
- With multi audio discs with NTSC system, the original vocals or musical accompaniment can be selected for karaoke play by using the D/A/CX button.

NOTE:

When is used to start play, One-Song Pause function cannot be carried out. Be sure to use the digit buttons when specifying the track number.

TO SEARCH FOR A PARTICULAR CHAPTER/TRACK

Chapter (Track) Search/Chapter (Track) Skip/Manual 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.

- Chapter Search is not possible with discs which are not divided into chapters.
- If chapter (track) number beyond the last chapter (track) number on the disc is specified, Chapter (Track) search cannot be carried out.

Chapter (Track) Search – To search by designating the chapter/track number

Example:

To play from the beginning of Chapter/Track 3:

<Direct Search>



Enter 3 with the digit button.

<Normal Search>



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

Enter 3 with the digit button.

To search for chapter or track number 13 or above:

Use [+10] and [0] buttons.

<Direct Search>

To enter 17: [+10], [7]

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

<Normal Search>

To enter 17: [SCAN+CHP/TIME], [1], [7], [▶]

To enter 30: [SCAN+CHP/TIME], [3], [0], [▶]

If you make a mistake in pressing the digit buttons:

Press CLEAR, and then press the correct button.

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

The numbers are displayed in the front panel display window.

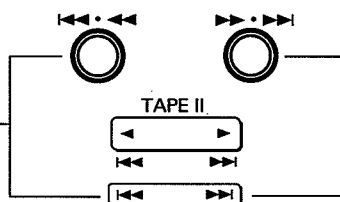
The information can also be displayed on the monitor TV screen by pressing DISPLAY on the remote control unit.

CAV discs (for Normal Search):

When Chapter Search is started by pressing ▶ on the remote control unit, the beginning of the designated chapter is played with still frame. With CLV discs, normal playback starts. When 3on the front panel is used, the player returns to its status before the search begins.

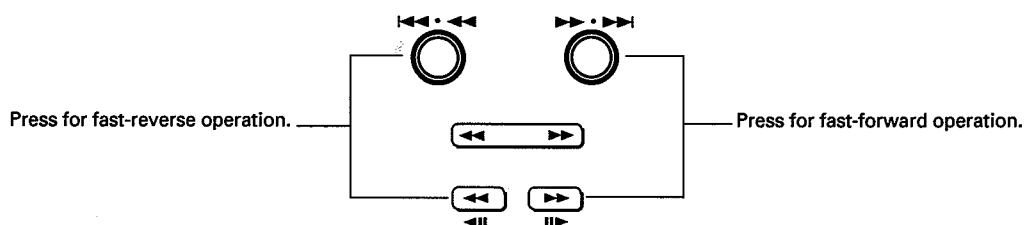
Chapter (Track) Skip – To search for the beginning of a chapter/track

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.

Manual Search – Search using fast forward or fast reverse



Normally Clear Scan is performed. To perform Low Speed Scan and High Speed Scan, press DISPLAY on the remote control unit to display the screen and then press the CD/LD operation button (◀▶). For about two seconds after the button is pressed, Low Speed Scan is performed, after that, the unit enters High Speed Scan.

- In Clear Scan mode, the fast-forward operation can be carried out without fluctuating of the image on a CLV disc. The image is sometimes interrupted, but this is not a malfunction.
- With video part of CDV, High Scan mode cannot be carried out.
- With CDs or audio part of CDVs, Clear Scan mode cannot be carried out.

- In Clear Scan mode, when digital sound is selected with digital audio discs, sound is heard at low volume level.
- With CDs or audio part of CDVs, sound is heard at low volume level while scanning
- Others: Sound is muted.

Note on CAV:

While scanning, noise may occur on the screen. This is not a malfunction.

Notes on CLV:

- While scanning, the colour of the image may fade out or the image sometimes fluctuates.
- The scan speed is different between inner tracks and outer tracks.

TO SEARCH FOR A PARTICULAR TIME/FRAME

Time Number Search/Track time Search/ABS Time Search/Frame Number Search

Time Number Search – Example: To search for the scene located at time number 12 min. 34 sec (CLV)

1. Press SCAN · CHP/TIME.

When the display shows chapter No., press this button again.

2. Enter **1, **2**, **3** and **4** with the digit buttons on the remote control unit..**

If you make a mistake during entry:
Press CLEAR to reset the time number to "0.00", and then press the correct digit buttons.

3. Press ►.

CAUTION

If a disc does not contain information on the digits of seconds, specify the time number only as far as the minute digits.

Track Time Search – To search for a time on a specified track (CD/CDV)

1. Press SCAN · CHP/TIME.

2. Press ◀◀ or ▶▶ so that the desired track number appears in the front panel display window.

3. Enter the track time (elapsed time from the beginning of the specified track) with the digit buttons (0 - 9) on the remote control unit.

4. Press ►.

ABS Time Search (CD only) – To search for a point by designating the elapsed time from the beginning of the disc

1. Press SCAN · CHP/TIME so that "Ab" appears in the front panel display window. (On the monitor screen, "ABS" appears.)

2. Enter the elapsed time from the beginning of the disc with the digit buttons (0 - 9) on the remote control unit.

3. Press ►.

Playback starts from the specified elapsed time.

Frame Number Search (CAV discs only) – To search by designating the frame number

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

1. Press SCAN · CHP/TIME. "FRAME 0" is displayed.

2. Enter the required frame number with the digit buttons (0 - 9) on the remote control unit.

3. Press ►.

The designated frame is played as a still frame. To start normal playback, press ► again.

NOTES:

- +10 does not function.
- If you make a mistake during entry, press CLEAR and press the correct digit buttons.
- If time/frame number beyond the last time/frame number on the disc is specified, the still image appears on the screen at the end of the disc.

To exit search mode:

Press CLEAR.

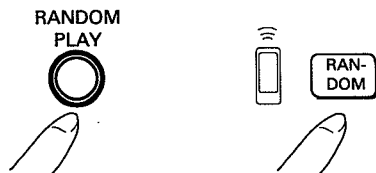
TO PLAY ALL CHAPTERS/TRACKS IN A RANDOM ORDER

Random Playback

Random Playback allows all chapters/tracks of one side of a disc in random order.

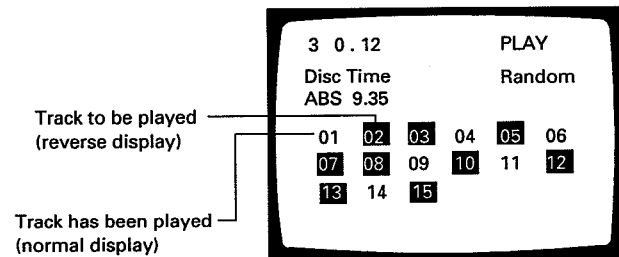
Press **RANDOM PLAY** on the front panel (CLD-J720 only) or **RANDOM** on the remote control unit.

[CLD J720 only]

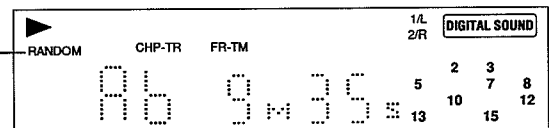


Display during Random Play (CD)

To display the music calendar, press DISPLAY on the remote control unit so that the display shows time display.



The RANDOM indicator lights.



NOTE:

With Random Playback, chapter No. 0 will not be played.

To go to the next chapter/track during Random Playback:

Press ►►.

(The previous chapter/track cannot be played by pressing ◀◀.)

To stop Random Playback:

Press CLEAR on the remote control unit.

After CLEAR is pressed, playback will continue in the order in which the chapters/tracks are recorded on the disc.

To enter stop mode:

Press ■.

Random Playback with CDV discs:

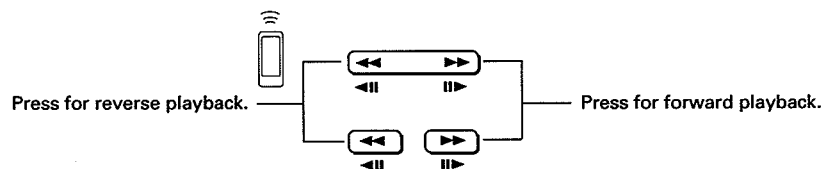
Tracks in the video and audio part are played in a random order.

Program Random Playback:

To play the programmed chapters/tracks in random order, press RANDOM during program playback.

EXTRA PLAYBACK (CAV discs only)

Still frame and Frame-by-Frame advance function



During playback if ◀◀ or ▶▶ on the remote control unit is pressed, the picture will be frozen. At this point, the disc can be played one frame at a time in either the forward or reverse direction by pressing one of these buttons. The sound is muted during still frame or frame advance operation. To return to normal playback operation, press ►.

No sound?

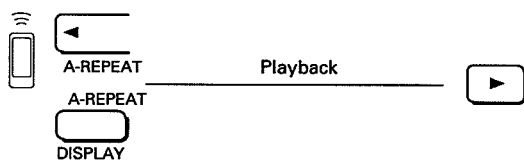
During still frame or frame advance operation, sound is not heard.

NOTE:

With CLV discs, Still Frame, Frame advance operation is not possible. If ◀◀ or ▶▶ is pressed during playback of a CLV disc, the warning message "CLV" will be displayed for about 2 seconds on the screen.

TO REPEATEDLY PLAY A DESIRED PASSAGE – Repeat Playback

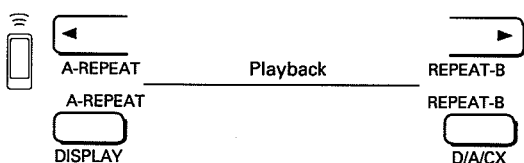
Memory Repeat – To specify a point to return to later



Press REPEAT A on the remote control unit at the point you want to see or listen to again (point A).

When you wish to return to point A, press ► on the remote control unit.

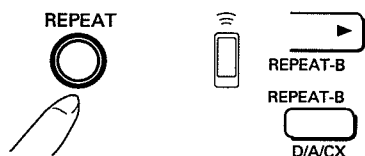
A-B Repeat – To repeat a specified section



Press REPEAT A on the remote control unit at the start point of the section to be repeated.

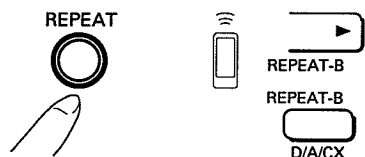
Press REPEAT B on the remote control unit at the end point of the section to be repeated. Playback returns to the beginning of the section and the section is repeated continuously.

Chapter/Track Repeat – To repeat the current chapter or track



Press REPEAT B on the remote control unit while the chapter/track to be repeated is playing. When the end of the chapter/track is reached, the player returns to the beginning of the chapter/track and the chapter/track is played back repeatedly.

One Side Repeat – To repeat an entire side of a disc

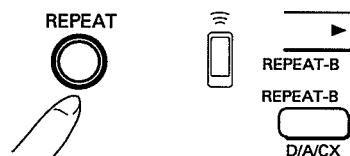


Press REPEAT B twice. "AL" is displayed for about 2 seconds. When playback reaches the end of the playback side, the player returns to the beginning of the disc and the same side is played back repeatedly.

Program Repeat – To repeat a program

With the program repeat function, you can repeatedly play programmed chapters or tracks in their programmed order.

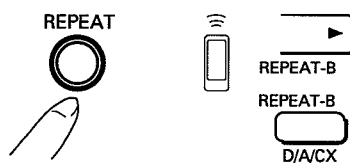
- See page 19 for details on programming.



Press REPEAT B while the program is being played.

Random Repeat – To repeat a random play (for CDs, CDV discs and LD with TOC)

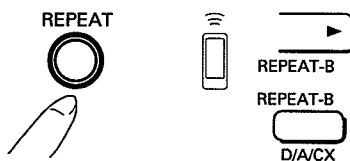
With the random repeat function, you can repeatedly play the chapters or tracks in random order.



Press REPEAT B during random playback.

Program Random Repeat – To repeat a program random play

With the program random repeat function, you can repeatedly play programmed chapters or tracks in random order.



Press REPEAT B during program random playback.

To exit repeat mode:

Press CLEAR on the remote control unit. Repeat mode is canceled and normal playback continues from the current point.

To specify a different point in Memory Repeat mode:

Press REPEAT A at the new point. The previously memorized point is erased and replaced with the new point.

Memory Repeat and A-B Repeat with CDV discs:

These repeat functions can only be carried out within the video part or within the audio part, and cannot be carried out between the two parts.

With LDs which have no chapter numbers:

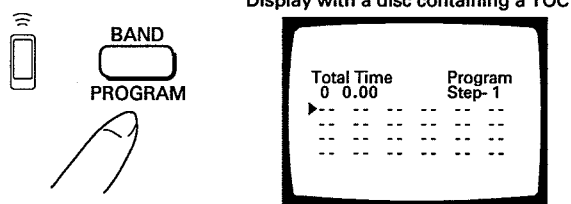
Chapter repeat cannot be carried out. With these LDs, REPEAT B is pressed once, one-side repeat will be carried out.

TO PLAY ONLY DESIRED SCENES/TRACKS – Program Playback

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.

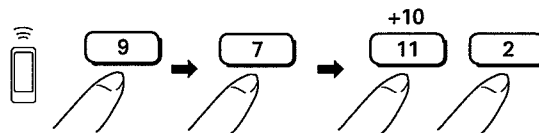
1 Press BAND/PROGRAM.



2 Select the desired chapter or tracks.

With LDs, CDs, and CDV discs, just enter the number of the desired chapter or track with the digit buttons.

Example: To program CD tracks 9, 7, and 12 in that order.



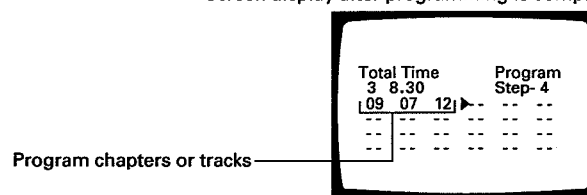
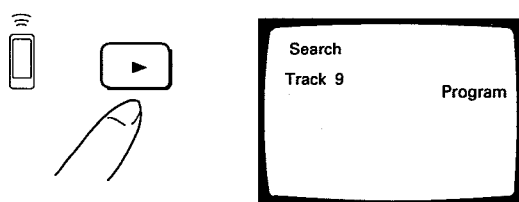
If you make a mistake during entry:

Press CLEAR and enter the correct number with the digit buttons.

Screen display after programming is completed.

3 Press ►.

The chapters/tracks are played in the programmed order. When all programmed chapters/tracks have been played, the player enters stop mode.



To modify the program contents

To erase a programmed chapter/track or pause

- Press BAND/PROGRAM.
- Press ◀ or ▶ to place the cursor (▶) on the left side of the chapter/track or pause to be erased.
- Press CLEAR.
- Press BAND/PROGRAM to complete programming. Pressing ► also completes programming and starts program playback with the new program contents.

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

- Press BAND/PROGRAM.
 - Press ◀ or ▶ to place the cursor (▶) on the left side of the chapter/track or pause to be changed.
 - Enter the new chapter/track number with the digit buttons. Press II to enter a pause.
 - Press BAND/PROGRAM to complete programming. Pressing ► also completes programming and starts program playback with the new program contents.
- A programmed chapter/track being played cannot be erased or changed.
 - A programmed pause already engaged cannot be erased or changed.

To stop program play in the middle:

- Press ■.
- Press CLEAR.

To clear the program contents:

- Open the disc table.
- Press CLEAR 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 II resumes disc playback, so restart recording before pressing II.

To program a pause:

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

NOTES:

- A pause cannot be programmed for step 1, nor 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 – II
In the front panel display window – PA

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

Press ◀ or ▶ on the remote control unit.

Total time display (CD and CDV only):

When programming for CD or CDV, the total time of the programmed tracks is displayed. If the total time exceeds 100 minutes, 100's digit will not be displayed in the display window of the front panel.

- If track No. 33 or more is programmed, the total time will not be displayed.

To view the program contents:

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

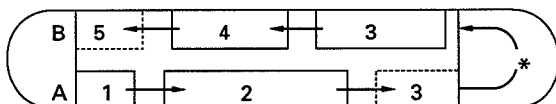
- Programmed chapter/track numbers light up on the visual calendar.
- Program contents are sequentially displayed by pressing ◀ or ▶.

A.S.E.S. (Auto Synchro Editing System)

For automatic recording of a CD to a cassette tape. A 10-second blank is recorded at the beginning of a tape. When this player is connected to the tuner amplifier (SX-J720, SX-J420), the peak level of the loaded disc is searched for, and the recording level of the cassette deck is automatically adjusted.

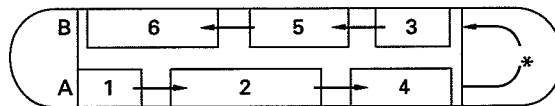
A, B: Indicates the side of the tape.
 1-6: Indicates the number of the track.
 *: Indicates the leader part of the tape.

NORMAL EDIT



This records CD tracks in the order they appear on the disc. If the tape ends while a track is being recorded, that track will be rerecorded on the B side of the tape.

FINE EDIT



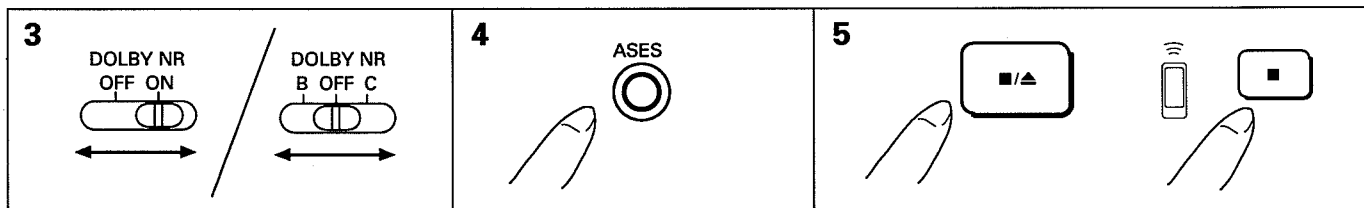
Use the EDIT button.

- **COMPU PGM:** The recording order of the selected tracks will be rearranged in order to allow the largest possible number of tracks to be recorded within the specified time.
- **AUTO PGM:** The recording is programmed in accordance with the tape length so that the recording will not end in the middle of a track. Any track that would be only partially recorded at the end of side A is carried over and recorded on side B.

Recording will start in the forward direction (▶). When the end of this side is reached, tape direction will change and recording will continue in the reverse direction (◀). In the A.S.E.S. mode, tracks are recorded with a blank portion of approximately 4 seconds between tracks. (NORMAL EDIT only)

- If the CD CDVLD player section is operating in a programmed mode, then A.S.E.S. proceeds with the programmed track order (NORMAL EDIT).

Using the NORMAL EDIT



- 1 Set a compact disc in the CD CDV LD player.**
- 2 Load a tape for recording into DECK II of the cassette deck.**
 Since recording always starts from the forward direction (▶), be sure that the tape is loaded properly.
- 3 Set the DOLBY NR switch on the cassette deck to the desired position.**
- 4 Press ASES on the cassette deck.**
- 5 To stop A.S.E.S. operation, press ■/▲ or ■ of DECK II.**

■ LINK A.S.E.S. (NORMAL EDIT only)

If extra tape remains after you have completed your edit recording session, the CD can be changed and A.S.E.S. recording continued.

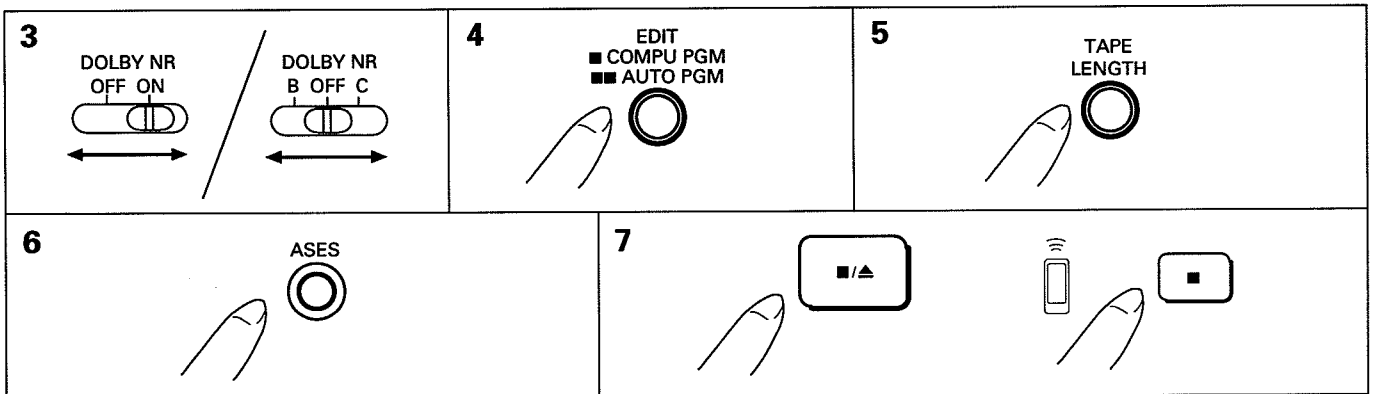
After 1-4 are performed, the A.S.E.S. will be temporarily terminated.

- 5' Press ● II on the cassette deck.**
 DECK II will enter the recording standby mode. The ▶ indicator of DECK II will flash. Recording will begin in the flashing direction.
- 6 Load another CD.**
- 7 Press ASES to begin linked A.S.E.S. recording.**

NOTE:

During A.S.E.S. operation, a 10 second unrecorded section is usually created at the beginning of the tape. However, if you press the ASES button in the recording standby mode, no unrecorded section is created.

Using the FINE EDIT



COMPU PGM

- 1 Set a compact disc in the CD CDV LD player.
- 2 Load a tape for recording into DECK II of the cassette deck.
Since recording always starts from the forward direction (▶), be sure that the tape is loaded properly.
- 3 Set the DOLBY NR switch on the cassette deck to the desired position.
- 4 Press the EDIT button on the CD CDV LD player.
To use the auto program (AUTO PGM):
Press the EDIT button one more time. You can program the tracks in desired order.
- 5 Within 2 seconds, press the TAPE LENGTH button to designate the tape's recording time.

→ 46 → 50 → 54 → 60 → 70 → 74 → 90

(unit: minutes)

Tape recording time will change in the above sequence each time the TAPE LENGTH button is pressed.

- The program will be automatically loaded and the number of tracks and the playing time will be shown on the display.
- If you wish to designate the tape length in minute units, use the number buttons on the remote control unit supplied with the tuner amplifier or deck amplifier. First, select "CLD" or "CD/LD" as the CONTROL MODE on the remote control unit; numbers can be selected between 1 and 99 (minutes).

When specifying 1 to 9, first press 0. For example, to specify 7 minutes, press 0, 7.

- 6 Press the ASES button on the cassette deck.

- 7 To stop the A.S.E.S. operation, press ■/▲ or ■ of DECK II.

NOTES:

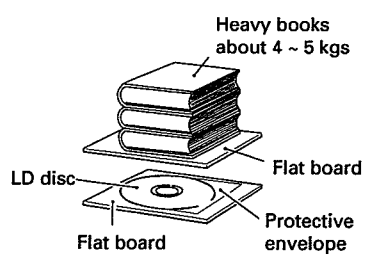
- A.S.E.S. may stop or operate incorrectly when there is a song change near the end of the tape. In such cases use manual operations to record the remaining songs.
- Programming may not occur properly with discs that include 33 or more tracks.
- When playing an LD, chapter "0" cannot be programmed. Further, if chapter "1" is programmed, the actual playing time may be less than that shown, but this is not a malfunction.
- When playing an LD, editing is not possible until after playback has been performed once.
- The A.S.E.S. function cannot be used with LD or CDV disc.

TROUBLESHOOTING

Incorrect operations are often 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 ▲ is pressed.	<ul style="list-style-type: none"> ● Power cord is not properly plugged into the stereo tuner amplifier or stereo double cassette deck amplifier socket. ● Power switch is not turned on. 	<ul style="list-style-type: none"> ● Plug in power cord. ● Turn on power switch.
2. Disc table comes out.	<ul style="list-style-type: none"> ● Disc is dirty. ● The disc is not properly set on the disc table. ● Moisture has condensed on parts in the player. ● Disc is warped. 	<ul style="list-style-type: none"> ● Clean disc. ● Set the disc properly. ● Remove disc and let player stand for 1 to 2 hours until it is dry. ● Try to alleviate the warp. (Refer to Symptom 5, remedy column.)

WHEN A LASERVISION DISC IS BEING PLAYED

SYMPTOM	CAUSE	REMEDY
3. Disc is rotating but there is no picture.	<ul style="list-style-type: none"> ● The TV set is not turned on. ● Wrong connections from player to TV. 	<ul style="list-style-type: none"> ● Turn on TV. ● Make correct connections.
4. Picture continuously moves vertically.	<ul style="list-style-type: none"> ● The TV vertical hold control is not adjusted properly. 	<ul style="list-style-type: none"> ● Adjust vertical-hold control on TV.
5. Particular disc does not playback properly. The playback stops in the middle of the disc program.	<ul style="list-style-type: none"> ● The playing surface of the disc is dirty. ● The disc is warped. 	<ul style="list-style-type: none"> ● 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. ● LD discs only Put the disc into the protective envelope, then place it on a flat board. Subsequently, place a flat board on the disc, and load it with about 4 ~ 5 kgs. If it is left in this state for one day, sometimes the warp will be alleviated. 
6. Sound is unnatural or distorted.	<ul style="list-style-type: none"> ● CX system is turned ON for disc which has no ⓧ mark. 	<ul style="list-style-type: none"> ● Press D/A/CX to turn CX system OFF.
7. No sound output during playback.	<ul style="list-style-type: none"> ● STILL/STEP playback is being performed. Sound is output only during the normal play mode. The audio signals are not output during other playback modes. 	<ul style="list-style-type: none"> ● Press ▶ to set the player to normal play mode.
8. During STILL playback, a part of the screen image shakes.	<hr/>	<ul style="list-style-type: none"> ● Even if the disc is an 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.

SYMPTOM	CAUSE	REMEDY
9. CHAPTER SKIP, CHAPTER PROGRAM PLAY and CHAPTER NUMBER SEARCH cannot be performed.	<ul style="list-style-type: none"> Disc in which no chapter numbers are recorded is loaded. 	<ul style="list-style-type: none"> Press DISPLAY to check if chapter number is displayed.
10. Certain discs take too long to search or are not searched.	<ul style="list-style-type: none"> It takes time to read the recorded code, depending on the disc. 	<ul style="list-style-type: none"> Press CLEAR and picture will appear. (At this point, a slightly different scene from that which has been searched for may appear.)
11. Certain discs take too long to start or do not start.	<ul style="list-style-type: none"> There are errors when the disc code is read (There is no damage to the unit). 	<ul style="list-style-type: none"> Press ■ and stop the playback. Press ► and start the playback again. (Repeat this operation a few times.)
12. The player takes too long to find point A during A-B (INTERVAL) REPEAT operation.	<ul style="list-style-type: none"> Same as item 10 above. 	<ul style="list-style-type: none"> Same as item 10 above. (The repeat mode is cancelled).
13. Picture other than instructed is searched in TIME NUMBER SEARCH mode.	<ul style="list-style-type: none"> 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 Disc in which time number is recorded in minutes <div style="text-align: center;"> </div> <ul style="list-style-type: none"> Disc in which time number is recorded in minutes and seconds <div style="text-align: center;"> </div>	

WHEN PLAYING BACK A COMPACT DISC

SYMPTOM	CAUSE	REMEDY
14. Player stops immediately after playback is started.	<ul style="list-style-type: none"> Disc is loaded upside down (CD, CDV, one-sided LD discs). The playing surface of the discs is dirty. Disc is not properly set on the disc table. 	<ul style="list-style-type: none"> Load the disc correctly with the label side upward. 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. Set the disc properly.
15. No sound output.	<ul style="list-style-type: none"> You are not operating the tuner control amplifier correctly. The connectors of the system cables are disconnected, or are not fully pushed in. The player is in pause mode 	<ul style="list-style-type: none"> Refer to the operating instructions amplifier, and operate the amplifier correctly. Make sure that connections are made correctly. Press ► and restore the player to playback mode.
16. Sound is distorted.	<ul style="list-style-type: none"> The connectors of the system cables are not fully pushed in. 	<ul style="list-style-type: none"> Push the connector in firmly.

- If your system is installed very near a television set, the television's picture may be distorted. This may occur with particular frequency when using an indoor antenna. If it does, either switch to an outdoor antenna, or move your television set farther away from the audio system.
- This system may on occasion fail to operate properly due to lightning, atmospheric static electricity, or other external causes. In such cases, turn the power switch briefly OFF then ON again, or disconnect the power cord from its socket temporarily and then reconnect it.

SPECIFICATIONS

1. General

System LaserVision Disc system and Compact Disc digital audio system
 Laser Semiconductor laser wavelength 780 nm
 Power requirements
 CLD-J420 U.K. model AC 240 V, 50/60 Hz
 CLD-J720 Flat blade
 2-pin AC plug model AC 110 V/120-127 V/220 V/240 V (switchable), 50/60 Hz
 CLD-J720 Round 2-pin
 AC plug model AC 220 V/230 V/240 V (switchable), 50/60 Hz
 Power consumption (CLD-J720) 39 W (CLD-J420) 43 W
 Weight (CLD-J720) 6.7 kg (CLD-J420) 6.7 kg
 Dimensions 360 (W) x 388.2 (D) x 120.5 (H) mm
 Operating temperature +5°C ~ +35°C
 Operating humidity 5% ~ 85%
 (There should be no condensation of moisture.)

2. Disc

LaserVision Discs PAL disc [CLD-J420 only]

*Maximum playing times
 30 cm active play (CAV) disc 72 min/both sides
 30 cm long play (CLV) disc 2 hours/both sides
 20 cm active play (CAV) disc 28 min/both sides
 14 min/one side
 20 cm long play (CLV) disc 40 min/both sides
 20 min/one side
 Spindle motor speed
 Active play (CAV) disc 1,500 rpm
 Long play (CLV) disc 1,500 rpm (inner circumference) to 570 rpm (outer circumference)
 (For a 30 cm disc)

NTSC disc [CLD-J420/CLD-J720]

*Maximum playing times
 30 cm standard play (CAV) disc 1 hour/both sides
 30 cm extended play (CLV) disc 2 hours/both sides
 20 cm standard play (CAV) disc 28 min/both sides
 14 min/one side
 20 cm extended play (CLV) disc 40 min/both sides
 20 min/one side
 Standard play (CAV) disc 1,800 rpm
 Extended play (CLV) disc 1,800 rpm (inner circumference) to 600 rpm (outer circumference)
 (For a 30 cm disc)

Compact Discs

Disc Diameter: 12 cm, 8 cm, Thickness: 1.2 mm
 Rotation direction (pickup side) Counterclockwise
 Linear speed 1.2 ~ 1.4m/sec
 *Maximum playing time 74 min. 12 cm discs
 20 min. 8 cm discs
 (For stereo playback)

Compact Discs with Video

Disc Diameter: 12 cm, 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 (CLD-J720) NTSC specifications
 (CLD-J420) PAL/NTSC specifications
 Video output
 Level 1 Vp-p nominal, sync. negative, terminated
 Impedance 75Ω unbalanced
 Jack RCA jack

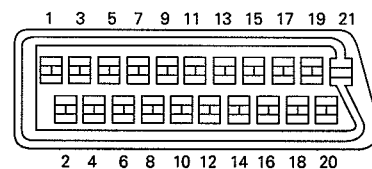
4. Audio characteristics

Digital Audio Characteristics
 Frequency response 4 Hz - 20 kHz
 SN ratio 100 dB (EIAJ)
 Dynamic range 96 dB (EIAJ)
 Wow and flutter Limit of measurement (EIAJ)
 Number of channels 2

5. Other Terminals

[CLD-J420 only]
 AV connector output 21-pin connector x 1
 This connector provides the video and audio signals for connection to a colour video TV monitor (or TV set) which has a "AV CONNECTOR" terminal.

21-pin connector assignment



PIN no.	1 Audio 2/R out	17 GND
	3 Audio 1/L out	19 Video out
	4 GND	21 GND
	8 Status	

6. Accessories

Video cord (CLD-J720) 2
 (CLD-J420) 1
 Operating instructions (CLD-J720) 2
 (CLD-J420) 1

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