

LVD-300

KENWOOD CORPORATION







B60-0164-00 (K, Y) 91/12 11 10 9 8 7 6 5 4 3 2 1 90/12 11 10 9 8 7 6 Your choice of this product indicates that you are a devotee to excellence in sound reproduction.

We appreciate your patronage and take pride in the long tradition of quality components that our company represents. So that you can get the most out of your unit, we suggest that you take the time to read through this manual before you hook up and operate your system. This will acquaint you with operating features and system-connection considerations so that your listening pleasure will be enhanced right from the start. You will notice that in all aspects of planning, engineering, styling, operating convenience and adaptability we have sought to anticipate your needs and desires.

Keep this manual handy for future reference.

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model _____ Serial Nu

Serial Number

Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

For the USA

CAUTION:

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

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD CORPORATION SHIONOGI SHIBUYA BUILDING 17-5, 2-CHOME, SHIBUYA, SHIBUYA-KU, TOKYO, JAPAN

KENWOOD CORP. CERTIFIES THIS EQUIPMENT CONFORMS TO DHHS REGULATIONS NO. 21 CFR 1040. 10, CHAPTER I, SUBCHAPTER J.

Location: Back Panel

DANGER

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

Location: Inside, near the Laser mechanism.

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For the U.S.A.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 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.

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CORRECTION SHEET

Specifications

INCORRECT	CORRECT	
Digital audio section	Digital audio section	
Frequency response4 Hz-20 kHz	Frequency response4 Hz-20 kHz	
Signal to noise ratioMore than 105 dB	Signal to noise ratioMore than 105 dB	
Dynamic rangeMore than 105 dB	Dynamic rangeMore than 98 dB	
Total harmonic distortionLess than 0.007% (1 kHz)	Total harmonic distortionLess than 0.004% (1 kHz)	

For the U.S.A. and Canada

Important!

Units shipped to the U.S.A. and Canada are designed for operation on 120 volts AC only.

Safety precaution for a Polarized AC plug

However, some products may be supplied with a non-polarized plug.

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.

For the United Kingdom

Important!

Units shipped to the U.K. are designed for operation on 240 volts AC only.

The mains plug must be removed from the wall socket prior to any internal examination.

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

Blue Neutral Brown Live

The wires in this mains lead must be connected to the terminals in the plug as follows:



For Australia and Europe

Important!

Units shipped to Australia are designed for operation on 240 V AC only.

Units shipped to Europe are designed for operation on 220 V AC only.

For other countries

Important!

Units shipped to countries other than the above countries are equipped with an AC voltage selector switch on the rear panel. Refer to the following paragraph for the proper setting of this switch.

AC voltage selection

This unit operates on 110-120 or 220-240 volts AC. The AC voltage selector switch Type A or Type B on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

Note: -

Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.



Safety precautions

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

CAUTION RISK GF ELECTRIC SINGER DO NOT OPEN		CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SER- VICING TO QUALIFIED SERVICE PERSONNEL.
	IS INTENDED TO TAGE'' WITHIN	FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE,) ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOL- THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE E A RISK OF ELECTRIC SHOCK TO PERSONS.
	USER TO THE P	ION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE RESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) IN- I THE LITERATURE ACCOMPANYING THE APPLIANCE.

Please read all of the safety and operating instructions before operating this unit. For best results, follow all warnings placed on the unit and adhere to the operating and use instructions. These safety and operating instructions should be retained for future reference.

- Power sources The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
- 2. 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, pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.



- Grounding or polarization The precautions should be taken so that the grounding or polarization means of this unit is not defeated.
- Ventilation The unit should be situated so that its location or position does not interfere with its proper ventilation.

To maintain good ventilation, do not put records or a table-cloth on the unit. Place the unit at least 10 cm away from the walls.

Do not use the unit on a bed, sofa, rug or similar surface that may block the ventilation openings.



5. Water and moisture — The unit should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.



 Temperature — The unit may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F). 7. Heat — The unit should be situated away from heat sources such as radiators, heat registers, stoves, or other units (including amplifiers) that produce heat.



8. Electric shock — Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings. If a metal object, such as a hair pin or a needle, comes into contact with the inside of this unit, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this unit.



 Enclosure removal — Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.



 Magnetic fields — Keep the unit away from sources of magnetic fields such as TV sets, speaker systems, radios, motorized toys or magnetized objects.



11. Cleaning — Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.



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12. Carts and stands — 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.



- **13. Nonuse periods** The power cord of the unit should be unplugged from the outlet when left unused for a long period of time.
- 14. Abnormal smell If an abnormal smell or smoke is detected, immediately turn the power OFF and pull out the power cord. Contact your dealer or nearest service center.

POWER OFF!



15. Damage requiring service — The unit should be serviced by qualified service personnel when:

A. The power-supply cord or the plug has been damaged; or

B. Objects have fallen, or liquid has been spilled into the unit; or

C. The unit has been exposed to rain; or

D. The unit does not appear to operate normally or exhibits a marked change in performance; or

E. The unit has been dropped, or the enclosure damaged.

- 16. Servicing The user should not attempt to service the unit beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
- 17. Outdoor antenna grounding If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. 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 con-

ductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.



18. Power lines — An outdoor antenna should be located away from power lines,

Notes: -

3. Item 17 complies with UL in the U.S.A.

^{1.} Item 3 is not required except for grounded or polarized equipment.

^{2.} Item 17 and 18 are not required except for units provided with antenna terminals.



back functions such as still frame, frame advance, and multi-speed playback are available with this disc type.

ed with the time numbers which indicate the elapsed play time from the beginning of the disc. Although special video playback functions are not possible with CLV discs, CLV discs offer longer playback time compared to CAV discs.







Beware of condensation

When water vapor comes into contact with the surface of cold material, water drops are produced.

If condensation occurs, correct operation may not be possible, or the unit may not function correctly.

This is not a malfunction, however, and the unit should be dried. (To do this, turn the POWER switch ON and leave the unit as it is for several hours.) Be especially careful in the following conditions:

- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occures easily.

CD/CDV/LD terminology

Chapter number (LD)

Like a book, LDs are divided into "chapters," each of which is assigned a chapter number. Chapter numbers are used on the jacket cover to designate the disc contents. Using these chapter numbers, you can use functions such as the Chapter Search function which enables you to guickly locate desired scenes.

· Some discs are not recorded with chapter numbers.

Frame number (LD)

"Frame" is the name given to each image recorded on a standard play (CAV) disc, and is equivalent to a "page" in a book. By designating frame numbers recorded on the disc, you can carry out opera_ tions such as Frame Search which allows you to begin playback from a desired scene.

Time number (LD)

Time numbers are recorded on extended play (CLV) discs and indicate the elapsed play time from the beginning of the disc. Operations such as Time Search can be carried out using these time numbers. Time numbers are recorded in second units or minute units, depending on the disc.

Track number (CD, CDV)

Track numbers are used to designate the various sections of a disc. CDV discs are recorded with track numbers which continue in sequence from the audio part to the video part. Using these track numbers, you can carry out functions such as Track Search to quickly find a desired tune.

TOC (CD, CDV, LD)

In addition to audio signals, all CDs and CDV discs are recorded with a data section called a TOC (Table of Contents) at the beginning of the disc. The TOC is equivalent to the table of contents of a book and contains information such as the track number and playing time of each tune.

· Some LDs are also provided with a TOC.

Make connection as shown in the diagram below. When connecting the related system components, refer also to the instruction manuals of the related components.

Do not plug in the power lead until all connections are completed.

Basic connection

- If you have an amplifier which can switch video signals, connect the output jacks of this player to the amplifier's input jacks.
- If you have an amplifier which cannot switch video signals, connect the audio output jacks of this player to the input jacks of the amplifier and connect the video signal to your TV's video input jack.
- If your TV does not have a video input jack, use an RF modulator (RFM-100) to connect the video signal to your TV's antenna terminal.
 For details, see "Connection using an RF modulator" on page 10.
- If your TV has an S-VIDEO terminal, use an S-VIDEO cable to connect the S-VIDEO terminals of the TV and the player.



- 1. Connect all cords firmly. If connections are loose there could be loss of sound or noise produced.
- 2. When plugging and unplugging connection cords after connections are complete, be sure to first remove the power cord from the AC outlet. Plugging/unplugging connection cords without removal of the power cord can cause malfunctions or damage to the unit.

Connection using an RF modulator (connection to the TV's antenna terminal) (Except for some areas)

TV antenna connecti	on	The connection method	differs depend	ing on your antenna wire type.
		Coaxial cable		Feeder wire
TV antenna (VHF)	With F connector	Without F connector Atta adaptor.	ch an antenna	Attach an antenna adaptor.
Har	A CONTRACTOR			
Channel switch				
TV connection	Make this connection according to your TV's antenna terminals.			
	F connector type		Screw connec	tor type
	Attach the antenna adaptor.	For a 75 Ω terminal	For a 300 Ω/75 Set the 75 Ω/30	Ω terminal DO Ω switch to the 75 Ω position.
		Wind the wire around the ter- minal and se- cure it by tightening the screw.	Tighten the screws.	

- 1. Connect all cords firmly. If connections are loose there could be loss of sound or noise produced.
- 2. When plugging and unplugging connection cords after connections are complete, be sure to first remove the power cord from the AC outlet. Plugging/unplugging connection cords without removal of the power cord can cause malfunctions or damage to the unit.



Coaxial cable connection (Except for some areas)







System Control cord connection



SYSTEM CONTROL terminal

By connecting this terminal to a KENWOOD amplifier or cassette deck equipped with a System Control terminal, you can gain access to a variety of system operations. To avoid possible malfunction, do not connect this terminal to any component except for those specified by KENWOOD.

System operation

1. Connection with an amplifier

System Control terminals found on KENWCOD amplifiers are marked with " $\mathcal{D}\mathcal{R}J$ " or " $\mathcal{D}\mathcal{K}J$ ". Using a System Control cord to connect this unit to a KENWCOD amplifier enables you to carry out the following operations.

When connected to an "DO" terminal:

System remote control operations are possible using the amplifier's remote control unit.

When connected to an "XS" terminal:

System remote control operations and "Easy Operation" are possible.

For details, refer the amplifier's instruction manual.

2. Connection with a cassette deck

Using a System Control cord to connect this unit to a cassette deck bearing the "CCRS recording."

CCRS

The CCRS function is used when recording from a compact disc to a tape in a cassette deck, and operates to adjust the cassette deck's recording level to the optimum setting according to the playing level of the compact disc. For details on the CCRS function, refer to the instruction manual provided with your cassette deck.

- When setting up your system for System Control operation, connect the AUDIO OUTPUT jacks or VIDEO OUTPUT jack of this unit to your amplifier's input jack(s) using an audio cord (video cord).
- When using an amplifier that does not have a "CD/VDP (LD)" input selector position (an amplifier with no video input jack), do not connect the amplifier to this unit using a System Control cord.

Controls and indicators



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AUTO DIGITAL Key AUDIO MONITOR key TV/DISC key-CXkey THEATER MIDN:GHT Г THEATER key TIME key -REPEAT keys REPEAT M-STOP M-STOP DISPLAY key --(Memory-stop) MULTI SPEED keys key Search keys -, + * * Open/close key 🛋 2 STILL/STEP keys Skip keys **-11**, **ID** * Numeric keys Stop key * Pause key 🚺 * Play key 🕨 * EDIT key-INTRO SCAN key-P.MODE key SPACE key -(Play Mode) FRAME/TIME key * RANDOM key-Insert two AA-size dry batter-KENWOOD ies (R6) in accordance with the * CLEAR key * CHECK key REMOTE CONTROL UNIY RC-LVD300 indicated polarity marks. 3 Close the cover. Model name: RC-LVD300 Transmission system: Infrared pulse system Operation Remote control receptor The coverage angle and distance varies depending on the temperature and humidity. Refer to the following illustration for the approximate operation range. 6m 30° 300 When pressing the remote control operation keys, press them securely, leaving an interval of more than 1 second RC-LVD300 Operating range between them.

All of the functions of the main unit can be operated using the remote control unit (except for the POWER switch). Operations of keys marked with "*" can also be carried out on the main unit.

Loading the batteries

- 1. The supplied batteries are intended for use in checking the operation of the unit and may have a short life.
- 2. When operating distance range of the remote control unit becomes noticeably shorter, replace all two of the batteries with new ones.
- 3. Malfunction may occur in case direct sunlight or the light of a high-frequency lighting fluorescent lamp enters the remote control light receptor.
- In such a case, change the installation position of the unit so that the malfunction does not occur.

Normal playback operation (CD, CDV, LD)

Playing a disc



5 345 7 8 9 10 6 SINGLE 1 ПОм 38s TV screen display during disc play 09 01:05 SINGLE

If the disc has a TOC, the recorded chapter number are displayed. 2 3.4 5

If the disc has a TOC, the recorded chap-

12

11

ter number are displayed.

678910

2345

678910

1

- 1. Do not place any object on the disc tray other than a disc.
- 2. A disc may become scratched if placed on the tray at a slant.
- 3. Only place one disc at a time on the disc tray. Placing two or more discs on the tray may damage the unit.





Note:

To protect your discs, never turn the POWER switch OFF during playback. Always press the stop ikey and then the OPEN/CLOSE key to remove the disc before turning the power off.

Searching for a desired scene (tune) (CD, CDV, LD)



- If you designate a chapter number which is not on the disc when using a disc that does not have a TOC, operation will stop after the player determines that the specified chapter does not exist.
- 3. Noise may appear on the screen during fast-forwarding or fast-reversing.

^{1.} Chapter Search and Chapter Skip operations are not possible with discs which do not have chapters.



Notes:

1. If you designate a frame number which is not recorded on the disc, operation will stop after the player determines that the specified frame does not exist.

2. Frame Search cannot be carried out during A>B repeat play.



- If you designate a time number which is not recorded on the disc, in the case of an LD operation will stop after the player determines that the specified time number does not exist; in the case of a CD or CDV disc the last track will be played and then operation will stop.
- Time Search cannot be carried out during A ▷ B repeat play.



Selecting the desired audio



Playing digital audio discs

There are two types of audio recording used with LDs: digital recording and analog recording. Digital audio LDs also contain analog recorded audio, allowing you to select either type of audio.



Special video playback functions (LD-CAV)

Special video playback functions are not possible with CLV (extended play) discs.



1 Press the remote control unit's MULTI SPEED (▷, ⊲) key. Image: Select (▷, ⊲) key. <

(+

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F

Changing the playback speed

 $\times\,3\,$ Three times the normal speed $\times\,2\,$ Two times the normal speed

 \times 1/8 One-eighth the normal speed \times 1/16 One-sixteenth the normal speed \times 1/30 One-thirtieth the normal speed

×1/4 One-fourth the normal speed Initial setting

No sound is output when using the MULTI SPEED function.

 \times 1 Normal speed \times 1/2 Half the normal speed



Speed and direction display (×3~1/30)





Stopping and viewing single frames

Still frame, frame advance, and frame reverse are possible.





The frame number is increased or decreased by one frame each time the STILL/STEP key (

Note:

The image may become disrupted during still frame, frame advance, or frame reverse mode. This is neither a malfunction of the unit nor a disc defect.

Automatic Picture Stop Function

When playing a disc recorded with special signals called "picture stop codes", the unit will automatically enter still frame mode when it plays a frame that contains such a code. Following the screen display, enjoy the image using keys such as the STILL/STEP key.

Up to 20 chapters (tracks) can be programmed and played in any desired order.

 Programming is not possible with discs that do not have chapter numbers.

Playing desired chapters (tracks) in the desired order

Program Mode





Repeatedly playing a program



To create blank spaces between tunes

After setting the player to Program mode, press the remote control unit's SPACE key.

SPACE		
<u>_</u>	960mb	man my
(h)	1/L 2/A	
\sim	· · · · · · · · · · · · · · · · · · ·	

- A blank space of approximately 4 seconds is created between tunes. This function is useful when recording cassette tapes for use with the cassette deck's tune skip function.
- The total time display changes to include the time required for the spaces.
- To cancel, press the SPACE key again.

Checking a program



Note:

During program play, if you have programmed a chapter which is not on the disc when using a disc which does not have a TOC, the unit will play the next chapter in the program after verifying that the current chapter does not exist.

Editing

When recording tunes from a CD or CDV disc to cassette tape, this function is used to edit the tunes so that they fit within the time limits of side A and side B so the last tune on each side does not get cut off in the middle.



Checking an edited program



Playing an edited program



Using the Program and Edit functions together If you program a number of tunes before carrying out the editing operation, the unit will give priority to the programmed tunes when it carries out the editing process. If there is surplus recording time still left in a file after all of the programmed tunes have been edited, the unit will automatically carry out additional editing to fill the remaining time with non-programmed tunes.



Deleting the entire edited program



- If you enter a recording time which differs from the length of the tape you are using, editing will be carried out normally but excessive blank space may be left on the tape or the last tune on side A or B may get cut off in the middle.
- 2. The Edit function can edit a maximum of 20 tunes.
- 3. If a tune with a track number of 36 or greater is included in a program, the Edit function will not operate.
- 4. Editing may not be carried out properly if you use a disc which contains only one tune or a disc such as a classical music CD which contains one track number that has a long playback time.

disc

Make sure **PGM** is extinguished on the display. Extinguished. 2 з 4 5 7 8 9 10 6 00'm 38 s . If PGM is lit, press the P.MODE key. Press the remote control unit's REPEAT key 2 once. REPEAT DIGITAL BOUND 2 34 5 8 9 10 1/L 2/R ПП_м 78 s This is not possible during A ▷ B repeat play. . To cancel, press the REPEAT key again.

Repeatedly playing one side of a



Repeatedly playing a desired section (A > B Repeat)



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Random play

The Random Play function plays all of the tunes on a disc in random order by randomly selecting the next tune at the end of each tune. (CDs, CDV discs, and LDs that have a TOC.)



Random play



				ne time display change accord- c type and play mode.	
Explar	nations fo	r items marked w	ith an asterisk (*) ap	pear after the table.	
Disc ty	pe	TOC existence	Mode	Display contents	
		With TOC	*Manual mode	 ① Total elapsed time of the disc →>② Total remaining time of the disc ④ Remaining time of the current chapter ← ③ Elapsed time of the current chapter 	
	CLV		Program mode	*Absolute time *@ Elapsed time of the current chapter @ Remaining time of the current chapter <	
		Without TOC	*Manual mode	Total elapsed time of the disc	
			Program mode	*Absolute time	
LD		D		*Manual mode	 ① Frame number → ② Elapsed time of the → ③ Remaining time of the current chapter ⑥ Total remaining time of the disc ← ⑤ Total elapsed time of the disc
		With TOC	Program mode	① Frame number	
	CAV		*Manual mode	① Frame number	
		Without TOC	Program mode	① Frame number →② *Absolute time →	
			*Manuai mode	① Elapsed time of →③ Remaining time of →③ Total elapsed time - the current track of the disc ④ Total remaining time of the disc	
CD, CDV Program mode		Program mode	 ① Total remaining time of the program → ② Elapsed time of the current track ▲ ④ Total elapsed time of the program ← ③ Remaining time of the current track 		
Manual m isplay ex a	ode: Mor amples:	is is the time reco des other than Pro For a CLV disc w of the disc	ogram mode.	d indicates the elapsed time from the beginning of the disc. ② Total remaining time of the disc	
	► 850% 	<u>.</u> 02 IZMO	2345 878910 745	► 132% 2345 578910 ₩.970 00 00 578910 ₩.970 00 00 00 1112 00 00 00 00 00 00 00 00 00 00 00 00 00	
) Elapsed ti	ime of the	e current chapter		④ Remaining time of the current chapter	

Useful functions

Timer playback

To carry out timer playback, connect an audio timer between this unit and the AC power supply, load a disc, set the timer to the desired time, and set this unit's POWER switch to ON.

> When the set time is reached, power is supplied to the unit and playback automatically begins.



Notes:

- 1. Be sure to read the instruction manual supplied with the audio timer.
- When carrying out timer playback, be careful that the volume level on the amplifier is not set too loud.
- When using the timer to operate a component other than this unit, be sure to remove the disc from this unit.

INTRO SCAN function



When you press the INTRO SCAN key, the unit plays the first seconds of each chapter (or track).

- In program mode, the unit plays the first part of each chapter (or track) in the programmed order.
- If you press the INTRO SCAN key again, normal playback starts from the current position.
- When playing a disc that has no chapters, INTRO SCAN is not carried out.







What appears to be a malfunction may not always be serious. If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

Symptom	Cause	Remedy
The power does not come on when the power switch is pressed.	 The power cord is not plugged in completely. Power to the amplifier is turned off. 	 Securely plug the power cord into the outlet. Turn on the power to the amplifier.
Playback does not start when the play key is pressed.	 The power is not turned on. There is no disc in the player. There are no signals recorded on the side of the disc being played. 	 Press the player's power switch. Load a disc and press the play [D]key. Turn the disc over and properly place it on the disc tray.
The play indicator ()>) is lit but no im- age/sound is seen/heard.	 The TV is not turned on. The connection cords are not properly connected. The TV's input switch is not set properly. 	 Turn on the TV. Properly reconnect the connection cords. Set the switch to TV or VIDEO. (Set to TV when using an RF modulator.)
Television programs do not come in.	 The TV antenna is not connected properly. The output of the RF modulator is switched to VDP (DISC) side. The TV's input switch is set to VIDEO. 	 Properly connect the antenna. Press the remote control unit's TV/DISC key. Set the switch to TV.
Still frame, frame advance, or Multi Speed playback cannot be carried out.	• The disc is an extended play (CLV) disc.	 Still frame, frame advance, and multi speed playback functions are not possi- ble with extended play (CLV) discs.
During LD playback, the picture be- comes disrupted when the image is fast-forwarded or fast-reversed.	 The picture will be slightly disrupted dur- ing fast-forward and fast-reverse oper- ations. 	 This is not a malfunction.
No sound is heard.	 The audio output cord is not properly connected. The volume control of the TV or amplifier is not adjusted properly. The player is in a special playback mode. 	 Properly connect the audio cord. Set the sound volume to an appropriate level. Press the play key to resume normal playback mode.
The picture does not look good, picture/ sound quality is poor.	 The video cord is not properly connected. A nearby device is generating noise. The disc is dirty. The disc is scratched or flawed. There is condensation on the optical lens. 	 Properly connect the cord. Separate this unit as far as possible from the device you think is generating the noise. Refer to the "Disc Handling Precautions" section and wipe the dirt from the disc. Use a new disc. Refer to the "Beware of condensation" section and evaporate the condensation.
The player cannot be operated using the remote control unit.	 The power to this unit is not turned on. The batteries are not properly inserted in the remote control unit. The batteries are dead. The remote control unit is operated too far from the player or at an improper angle. 	 Turn on the power. Check the polarity of the batteries and re- insert the batteries correctly. Replace all two batteries with new ones. Use the remote control unit in the speci- fied operating range.
It takes a while for the disc to start playing.	• Time is required for the unit to detect the disc type and size and for the rotation of the motor to stabilize. This is not a malfunction.	 Approximately 10~20 seconds is re- quired for a disc to start playing, although the time differs depending on the disc.
The disc tray automatically opens.	• The disc is placed on the tray at slant.	 Properly place the disc on the tray.

Since this unit incorporates a microprocessor, external noise or interference may cause the unit to operate abnormally. If this should ever occur, press the POWER switch OFF and then press it ON again after a period of several seconds.

^{2.} Do not use contact cleaner because it could cause a malfunction. Be specially careful against contact cleaners containing oil, for they may deform the plastic components.

For the U.S.A. FCC WARNING:

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

NOTE:

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

-- Reorient or relocate the receiving antenna.

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

For CANADA DOC REGULATION

"This digital apparatus does not exceed the CLASS B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian department of communications."

[Type]
Video disc format LaserVision format
Signal read system Semiconductor laser
Video output format NTSC
Video output lines
RCA pin jack)
Audio output lines 2 lines (optical terminal,
RCA pin jack)
[Characteristics]
Video output level 1 Vp-p (75 Ω load, sync. negative)
S-VIDEO output level Y output : 1 Vp-p (75 Ω load,
sync. negative)
C output : 0.286 Vp-p
(75 Ω load)
Horizontal resolution
Video signal to noise ratio More than 49 dB
Digital audio section
Frequency response 4 Hz~20 kHz
Signal to noise ratio More than 105 dB
Dynamic range More than 98 dB
Total harmonic distortion Less than 0.007% (1 kHz)
Wow and flutter Below measurable limit
(±0.001% W. PEAK)
Output level/Impedance 2 V/1 kΩ
Optical output (optical
fiber output terminal) 15 dBm ~ - 2 1dBm
RF modulator output channel VHF channel 3 or 4
(Except for some areas) (Supplied modulator:
RFM-100 switch type)

Allowable operating temperature range 5°C~40°C	С
Allowable operating humidity range	ό
(condensation should not form)

[General]

Power consumption	40 W
Dimensions W	': 440 mm (17-5/16*)
H	: 138 mm (5-7/16")
D:	: 374 mm (14-3/4*)
Weight (Net)	10.0 kg (22.0 lb)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note: --

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LVD-300 (En) **35**

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