KENW00D

DVD COMPACT HIFI SYSTEM

XD-DV90 XD-DV80 XD-DV70 XD-DV60 XD-DV50 XD-A850DV INSTRUCTION MANUAL

KENWOOD CORPORATION

This instruction manual is used to describe multiple models listed above. Model availability and features (functions) may differ depending on the country and sales area.









B60-4911-08 (K/Y/T/M/X) OC 01/03

Before applying power

Units are designed for operation as follows.

U.S.A. and Canada	AC 120 V only
Europe and U.K	AC 230 V only

For the United Kingdom

Factory fitted moulded mains plug

- 1. The mains plug contains a fuse. For replacement, use only a 3-Amp ASTA-approved (BS 1362) fuse.
- 2. The fuse cover must be refitted when replacing the fuse in the moulded plug.
- 3. Do not cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach.

A power point, then obtain an appropriate safety approved extension lead or adapter, or consult your dealer. If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent.

Connection to the mains supply.

IMPORTANT :

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

Blue : Neutral

Brown : Live Do not connect those leads to the earth terminal of a threepin plug.

🕂 Caution : Read this section carefully to ensure safe operation.

Australia	AC 240 V only
*Other countries	AC 110-120 / 220-240 V switchable

*For other countries

AC voltage selection

The AC voltage selector switch 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 these switches matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

AC voltage selector switches



Move switch lever to match your line voltage with a small screwdriver or other pointed tool.

Note:

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

Safety precautions

A Caution : Read this section carefully to ensure safe operation.

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

CAUTION RISK OF ELECTRIC SHOCK 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.
	ANGLE, IS INTE GEROUS VOLTA	G FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRI- INDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DAN- IGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT O CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.
	THE USER TO T	TON POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SER- JCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

The marking of products using lasers (Except for some areas)



The marking is located on the rear panel and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

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.

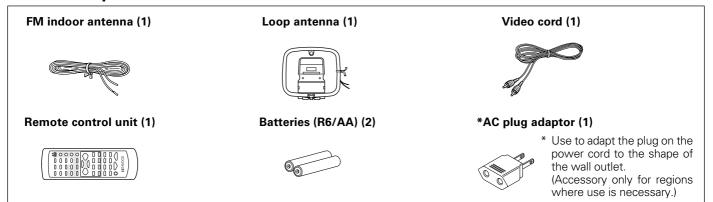
We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Keep this manual handy for future reference.

Accessories

Please confirm that the following accessories are present.

Accessories packed with the main unit



Speaker model names and accessories packed with the speakers

•	-	•		
System	Front speakers	Surround Speakers and accessories		
XD-DV90	LS-N90V (Left speaker and right speaker)	CRS-N90V (Center speaker \times 1, surround speakers \times 2,		
		speaker cords× 3, speaker stabilizer× 12)		
XD-DV80	LS-N70V (Left speaker and right speaker)	CRS-N90V (Center speaker \times 1, surround speakers \times 2,		
		speaker cords× 3, speaker stabilizer× 12)		
XD-DV70	LS-N90V (Left speaker and right speaker)	_		
XD-DV60	LS-N70V (Left speaker and right speaker)	_		
XD-DV50	LS-N50V (Left speaker and right speaker)	_		
XD-A850DV	LS-N50V (Left speaker and right speaker)	_		

CHANNEL SPACE setting (Except for the U.S.A., Canada, U.K., Europe and Australia)

The space between radio channels has been set to the one that prevails in the area to which the system is shipped. However, if the current channel space setting does not match the setting in the area where the system is to be used, for instance when you move from area 1 or area 2 shown in the following table or vice versa, proper reception of AM/FM broadcasts cannot be expected. In this case, change the channel space setting in accordance with your area by referring to the following table.

	Area	CHANNEL SPACE frequency
1	USA, Canada and South American countries	FM : 100 kHz AM : 10 kHz
2	Other countries	FM : 50 kHz AM : 9 kHz

Setting the CHANNEL SPACE

Set the **POWER** key to standby (power off) mode.
Press and hold the **STOP** (
) key for more than 2 seconds.

Each press for more than 2 seconds switches the modes as follows.

① "FM100/AM10 kHz" STEP
 ② "FM 50 /AM 9 kHz" STEP



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Introduction

XD-DV series (EN/K,M,T,X,Y)

In regard to demonstration

When this unit is switched on for the first time or after the power cable has been disconnected for a long time, it will enter automatically into demonstration mode (only display). During the demonstration, the display changes in sequence but the audio does not change. The demonstration can be canceled with the following procedure.

Cancellation of Demonstration mode

Ø Set the **POWER** key to ON.Ø Press the **DISPLAY/DEMO** key.



To start demonstration: Press and hold The **DISPLAY/DEMO** key for more than 2 seconds.

Special features

This document classifies the applications of each feature using the following marks

- **WD** : Description of a feature that can be used with DVD.
- **WCD** : Description of a feature that can be used with Video CD.
- **CD** : Description of a feature that can be used with CD.

OVD	Higher video quality than S-VHS video and LaserDisc
	Higher audio quality than music CD
	Graphical user interface (GUI) compatibility
	6-Channel independent outputs using built-in Dolby Digital (AC-3) decoder
	(only for XD-DV90/XD-DV80)
	Versatile DVD playback features
	DTS digital output compatibility

IMPORTANT SAFEGUARDS

Please read all of the safety and operating instructions before operating this appliance. Adhere to all warnings on the appliance and in the instruction manual. Follow all the safety and operating instructions. These safety and operating instructions should be retained for future reference.

- 1. Power sources The appliance should be connected to a power supply only of the type described in the instruction manual or as marked on the appliance. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For appliances intended to operate from battery power, or other sources, refer to the instruction manual.
- 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 appliance.

 CAUTION – Polarization – This appliance may be equipped with a polarized alternating-current line plug (a

- Temperature The appliance 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 appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (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 objects, such as a hair pin or a needle, comes into contact with the inside of this appliance, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this appliance.

- **9. Enclosure removal** Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.
- plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 4. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating, and these openings must not be blocked or covered. The appliance should be situated so that its location or position does not interfere with its proper ventilation.

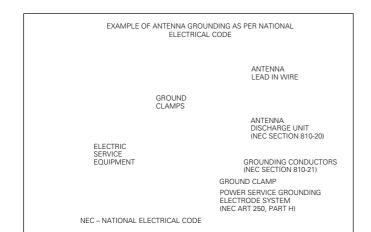
To maintain good ventilation, do not put records or a tablecloth on the appliance. Place the appliance at least 10 cm away from the walls.

Do not use the appliance on a bed, sofa, rug or similar surface that may block the ventilation openings. This appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

- **10.Magnetic fields** Keep the appliance away from sources of magnetic fields such as TV sets, speaker systems, radios, motorized toys or magnetized objects.
- **11.Cleaning** Unplug this appliance from the wall outlet before cleaning. Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.
- 12. Accessories Do not place this appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. 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.
- Water and moisture The appliance 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.

- **13. Lightning** For added protection for this appliance during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the appliance due to lightning and power-line surges.
- **14.Abnormal smell** If an abnormal smell or smoke is detected, immediately turn the power OFF and unplug the appliance from the wall outlet. Contact your dealer or nearest service center.

- **15.Damage requiring service** The appliance should be serviced by qualified service personnel when:
 - **A.** The power-supply cord or the plug has been damaged.
 - **B.** Objects have fallen, or liquid has been spilled into the appliance.
 - **C.** The appliance has been exposed to rain or water. **D.** The appliance does not appear to operate normally by following the instruction manual. Adjust only those controls that are covered by the instruction manual as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to its normal operation. **E.** The appliance has been dropped, or the enclosure damaged.
 - F. The appliance exhibits a marked change in performance.
- **16.Servicing** The user should not attempt to service the appliance beyond that described in the instruction manual. All other servicing should be referred to qualified service personnel.
- **17.Outdoor antenna grounding** If an outside antenna is connected to the appliance, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Article 810 of the National Electrical Code ANSI/ NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.



- **18. Power lines** An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- **19.AC outlets** Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical appliances, such as an iron or toaster, to it to prevent fire or electric shock.

- **20. Overloading** Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- **21. Attachment** Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
- 22. Replacement parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- **23. Safety check** Upon completion of any service or repairs to this appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operating condition.

Notes:

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

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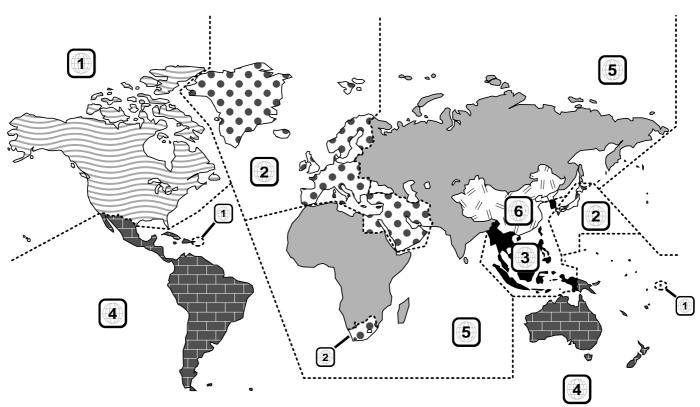
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Every player of this model has a certain region code assigned to it based on the country where the player is used. When the player is used to play back DVD discs, it can only play the DVD discs carrying the region codes matching the region code of the player.

The region code for this player is described on the rear panel of the player.

Region codes in the world

The DVD players are given a region code according to the country or area it is marketed, as shown in the following map.



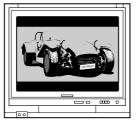
Examples of TV screen display of each video format

When your TV is switchable between PAL/ NTSC

Try play a disc. If the picture is black and white or as shown on the right, stop playback and switch the screen display formats of this unit and the TV to another format. This will improve the played picture quality.



With certain discs, the playback picture may have black spaces above and below it (as shown on the right). This is because the disc has been recorded in the NTSC format. The screen may be somewhat hard to see but this is not malfunction.



When your TV is compatible only with the NTSC format

With certain discs, the playback picture may be cut above and below it (as shown on the right). This is because the disc has been recorded in the PAL or SECAM format. The screen may be somewhat hard to see but this is not malfunction.



IDEC

Video formats

The video signals used to display TV pictures and video disc pictures are mainly based on two types of signal formats (PAL, SECAM and NTSC), which are assigned to each country or area as shown on the right. As a result, it is required to select discs according to the video format used with your TV monitor (in your country or area).

TV formats of major countries

r				
TV Format	Major Countries & Areas			
NTSC	Japan, Taiwan, Korea, U.S.A., Canada, Mexico,			
NISC	Philippines, Chile, etc.			
	China, North Korea, U.K., Germany, Australia,			
PAL	New Zealand, Kuwait, Singapore, etc.			
SECAM	France, Eastern Europe			

Video formats of DVD discs that can be played on this unit

Set the video formats of the DVD discs to be played on this unit as described below.

Check the video format(s) used by your TV monitor.

•Refer to the operating instructions of your TV monitor for details.

Select DVD discs or VCD discs recorded with the playable video format by referring to the following table.

•See the region code table on the bottom of this page for details on districts 1 to 3.

Your TV	Playable Disc Formats								
format	District 🕖	District @ -1	District @ -2	District @-3	District 🕑	District @ -1	District @ -2	District G	District 🕝
NTSC only	NTSC	NTSC* PAL*	NTSC	NTSC PAL*	NTSC PAL*	NTSC* PAL*	NTSC	NTSC* PAL*	NTSC PAL*
PAL only	NTSC*	NTSC PAL	NTSC*	NTSC* PAL	NTSC* PAL	NTSC PAL	NTSC*	NTSC PAL	NTSC* PAL
NTSC/PAL switchable	NTSC	NTSC PAL	NTSC	NTSC PAL	NTSC PAL	NTSC PAL	NTSC	NTSC PAL	NTSC PAL



Normal video may not be reproduced when a disc recorded with the video format marked * in the above table is played. See "Examples of TV screen display of each video format" for details.

3 When your TV is switchable between NTSC and PAL,

- •Districts 1, 2-2 and 2-2: Set the TV to NTSC.
- •Districts 2-1, 2-1 and 5: Set the TV to PAL.
- •Districts **2**-3, **3** and **5**: Set the TV according to each disc to be played.

Region code table

	District 0	District @-1	District @-2	District @-3	District 🕑	District Ø -1	District @ -2	District 🥑	District 🕝
Area or Country Name,	North America	U. K. and Europe	Japan	Middle East	Southeast Asia	Oceania	South America	Russia	China
Region Code		2	2	2	3	4	4	5	6

Restrictions due to difference between discs

Some DVD and VCD discs can be played only in certain playback modes according to the intentions of the software producers. As this player plays discs according to their intentions, some functions may not work as intended by you. Please be sure to read the instructions provided with each disc. When an inhibition icon is displayed on the TV screen connected to the player, it indicates that the disc being played is under the restriction as described above.

Inhibition icon

Preparations

XD-DV series (EN/K-M-TX-Y)

Recording systems and types of playable discs

The system using this unit does not only play music from CD but can also play the discs listed below to offer you high-quality entertainment of video of movies and live concerts.

PI	Playable Disc DVD		С	VCD		
Logo mark on disc						
	Disc size	© 8cm	I2cm	© 8cm	0 12cm	Den 12cm
Р	layed sides	One or both	One or both	One side only	One side only	One side only
Contents	Video + Audio	Approx. 41 min. (1 side, 1 layer) Approx. 75 min. (1 side, 2 layers) Approx. 82 min. (2 sides, 1 layer) Approx. 150 min. (2 sides, 2 layers)	Approx. 133 min. (1 side, 1 layer) Approx. 242 min. (1 side, 2 layers) Approx. 266 min. (2 sides, 1 layer) Approx. 484 min. (2 sides, 2 layers)			Max. 74 min.
	Audio			Max. 20 min., digital	Max. 74 min., digital	

Unplayable discs

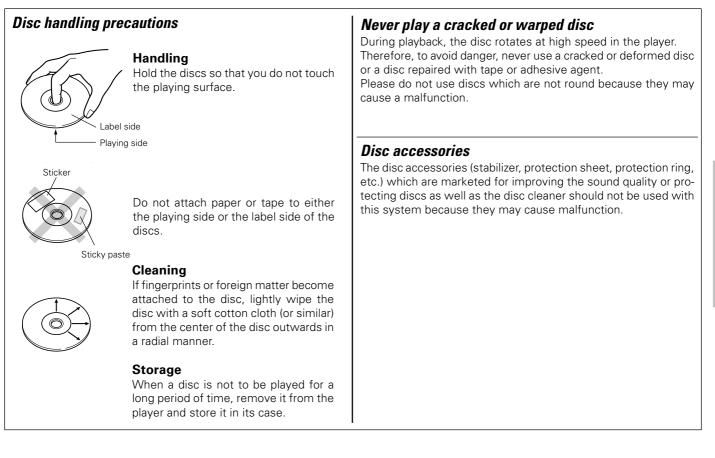
This player cannot play back any of the following discs.

- DVD-ROM discs
- DVD-R/DVD-RAM discs
- CD-ROM discs
- VSD discs

- CDV discs (Only the audio part can be reproduced.)
- CD-G/CD-EG/CD-EXTRA discs (Only the audio can be reproduced.)
- CD-R/CD-RW discs (Never attempt to play them.)
- Photo CD discs (Never attempt to play them.)

Icons on the DVD discs

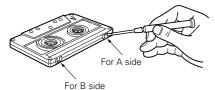
lcon	Description
ALL	Indicates the region code where the disc can be played.
3))	Number of voice languages recorded with the audio function. The number in the icon indicates the number of voice languages. (Max. 8 languages)
32	Number of subtitle languages recorded with the subtitle function. The number in the icon indicates the number of subtitle languages. (Max. 32 languages)
	Number of angles provided by the angle function. The number in the icon indicates the number of angles. (Max. 9 angles)
16:9 LB	Aspect ratios that can be selected. "LB" stands for Letter Box and "PS" for Pan/Scan. In the example on the left, the 16:9 video can be converted into letter box video.

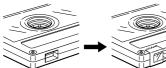


Notes on cassette tape

Safety tab (accidental erasure prevention tab)

After an important recording has been finished, break the safety tab, to prevent the recorded contents from being erased or recorded on accidentally.





To re-record

Apply tape only to the position where the tab has been removed.

1. Longer tape than 90 minutes cassette tape Since longer tape than 90 minutes cassette tape is very thin, the tape could adhere to the pinch roller or be easily cut. It is recommended that these tapes not be used with this unit to prevent possible damage.

To store cassette tapes

Do not store the tapes in a place which is subject to direct sunlight, or near equipment that generates heat. Keep the cassette tapes away from any magnetic field.



When there is slack in the tape

In such a case, insert a pencil into the reel hole and wind the reel hub to remove the slack.



2. Endless tapes

Do not use an endless tape, as this could damage the mechanism of the unit.

12 System Connections

A Caution : Read this page carefully to ensure safe operation.

XD-DV series (EN/K,M,T,X,Y)

Make connections as shown below.

When connecting the related system components, refer also to the instruction manuals of the related components.

Caution:

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

Caution

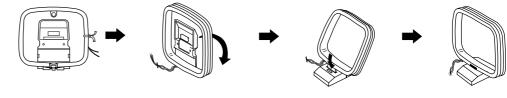
Be sure to adhere followings. Or proper ventilation will be blocked causing damage or fire hazard.

- Do not place any objects impairing heat radiation onto the top of unit.
- Leave a space around the unit (from the largest outside dimension including pro
 - jection) equal or greater than, shown below.
 - Top panel : 50 cm Side panel : 10 cm
- Back panel : 10 cm

Malfunction of microcomputer

If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty".

AM loop antenna



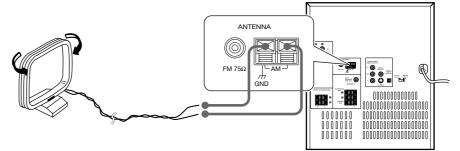
AM loop antenna connection

The supplied antenna is for indoor use. Place it as far as possible from the main system, TV set, speaker cords and power cord, and set it to a direction which provides the best reception.

FM antenna

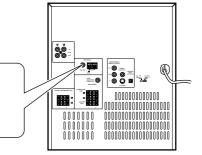
FM indoor antenna connection

The accessory antenna is for temporary indoor use only. For stable signal reception we recommend using an outdoor antenna. Remove the indoor antenna if you connect one outdoors.



Example of the XD-DV90

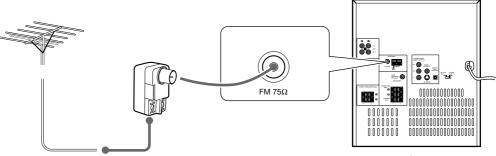
Connect to the antenna terminal.
 Locate the position providing good reception condition.
 Fix the antenna.



FM outdoor antenna

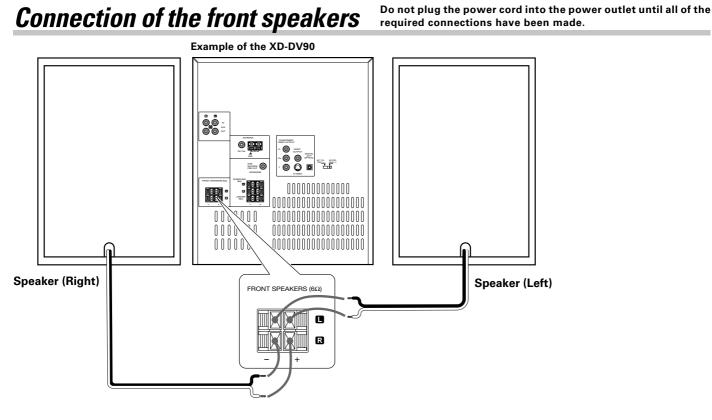
(commercially available)

Lead the 75 coaxial cable connected to the FM outdoor antenna into the room and connect it to the FM 75 terminal.



FM 750

Example of the XD-DV90

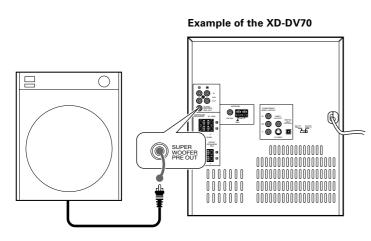


- Never short-circuit the + and speaker cords.
- If the left and right speakers are connected inversely or if the speaker cords are connected with reversed polarity, the sound becomes unnatural with ambiguous acoustic image positioning. Be sure to connect the speakers and speaker cords correctly.

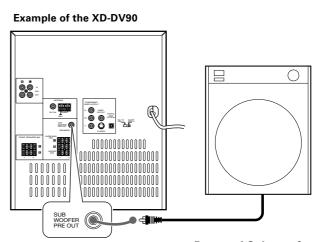
Connection of the sub woofre or super woofer (optional)

For XD-DV70/XD-DV60/XD-DV50/XD-A850

For XD-DV90/XD-DV80

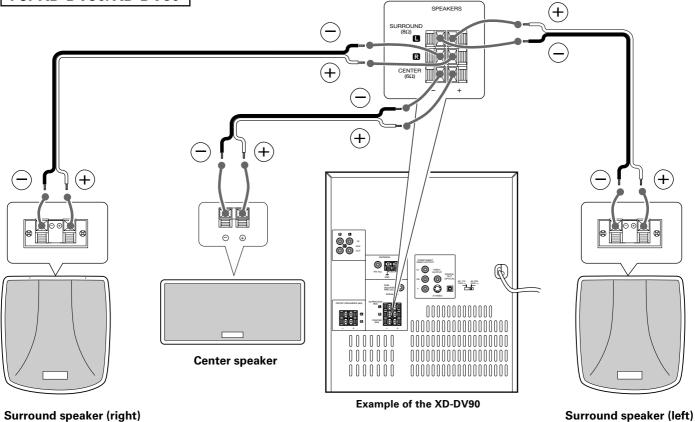


Powered Super woofer



Connection of the surround speaker system

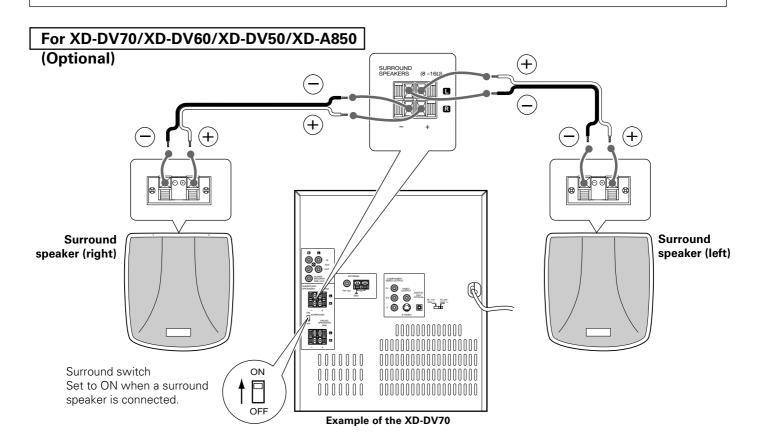
For XD-DV90/XD-DV80



Surround speaker (right)

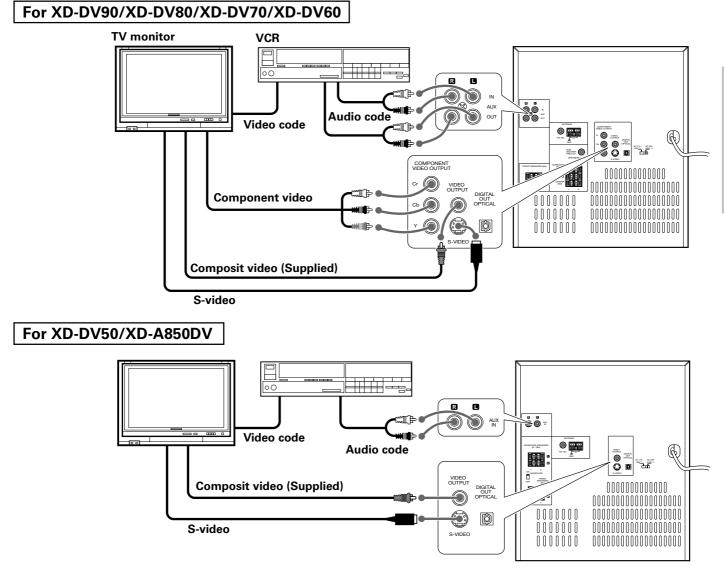
Use of the speaker stabilizer (only for XD-DV90 and XD-DV80)

Please attach this to the rear of the speaker when the center speaker or the surround speaker is not stable.

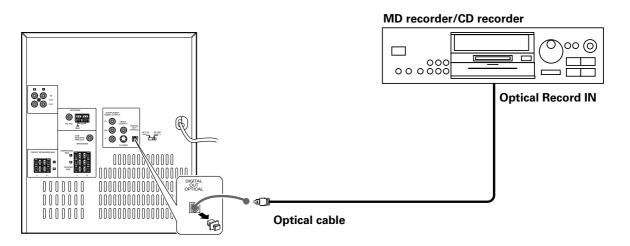


Connection of the TV monitor (optional) and VCR (optional)

This product is compatible with the MacroVision type copy protection. Some discs contain the recording of copy inhibit signals, and the video may be disturbed when the video of such discs is recorded onto a VCR and played back.



Connection of the MD recorder/CD recorder (optional)



+ 38

- 38

- 38

+ 19

→ 19

+ 44

→ 18

→ 19

+ 14

+ 19

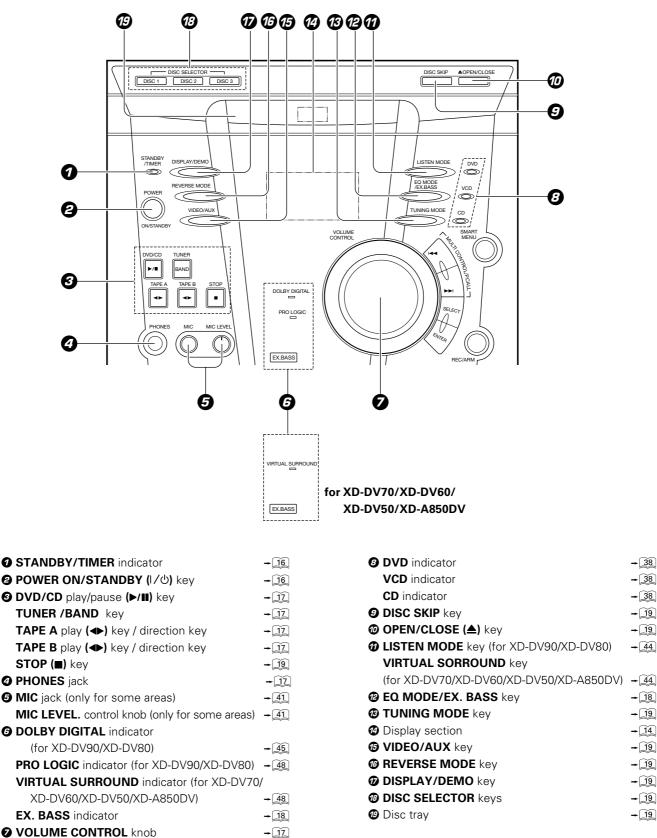
→ 19

+ 19

→ 19

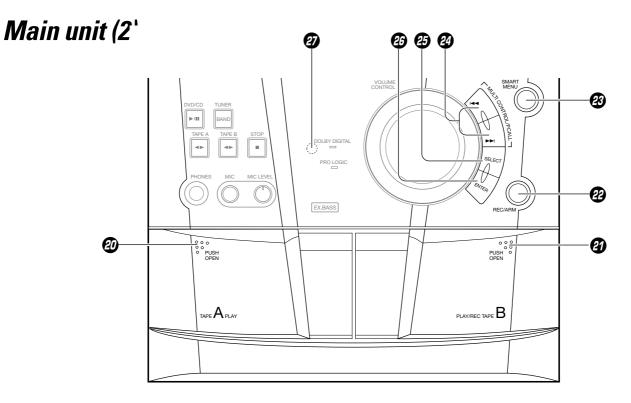
→ 19

Main unit (1)



STANDBY mode of ON/STANDBY (1/0)) switch

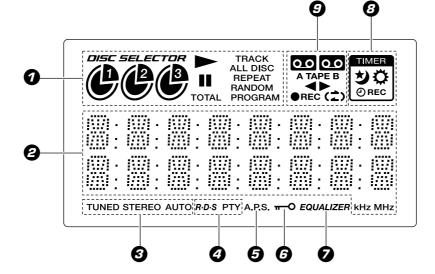
When the power cable plug of this unit is inserted into a receptacle, a minute current flows for memory protection. This status is referred to as the STANDBY mode, and the unit in the STANDBY mode can be turned ON from the remote control unit.



- Cassette holder (TAPE A) 38
 Press the area marked "PUSH OPEN" to load or eject a tape.
- Cassette holder (TAPE B) 38
 Press the area marked "PUSH OPEN" to load or eject a tape.

REC/ARM key	→ 39
Ø SMART MENU key	→ 34
Ø MULTI CONTROL/P.CALL/I◄◄, ►► key	→ 16
SELECT key	→ 16
Ø ENTER key	→ 40
Premote sensor	→ 15

DISPLAY



O CD (DVD or VCD)-related indicators

This section contains the CD (DVD or VCD) play and pause mode indicators.

② Character information display

Displays the input selection, frequency, volume level etc.

O Tuner-related indicators

O R.D.S., PTY indicators

(Only for Europe and U.K.)

- G A.P.S. (Auto Power Save) indicators
- **O** PARENTAL lock indicator
- EQUALIZER indicator
- **③** Timer-related indicators
- **O** Cassette deck-related indicators

This section contains the cassette deck operation indicators. The indicated information includes the tape reverse mode and tape transport direction.

18 Operation of remote control unit

POWEF 110 DISC 3 DISC 2 2 3 9 -KEY CONTROL DVD/CD П (►/II) 789 BAND 8 TUNING **(4) (b)** 0 3 SELECT CLEAR RETURN ENTER 4 RDS STEP AUDIO ANGI F SI OW DISPLAY RANDOM REPEAT A-B 6 UBTITLE-ON/OFF DVD PGN AUX LMODE EQ MUTE <u>_ <u>EX</u>.</u> 6 7 SHIFT **KENWOOD**

Model : RC-DV90 (for U.S.A., Canada, Australia and U.S. Military) RC-DV90E (for Europe and U.K.) RC-DV90M (for Other countries) Infrared ray system

Use of the SHIFT key

When a key corresponding to the SHIFT function is pressed within 5 seconds of pressing the SHIFT key ("S" flashes on the display), a different function from the normal function will operate. For example, when the REPEAT (SLOW) key is pressed after the SHIFT key, SLOW operation mode will be reached. While the "S" indication is flashing, operation of the SHIFT function is possible without pressing the SHIFT key.

```
Blink
Loading batteries
    Remove the cover.
                                                Insert batteries.
                                                                                            O Close the cover.

    Insert two R6/LR6 ("AA"-size) bat-

                                                           teries following the polarity indica-
                                                           tions.
                                                           Align the poles (+ and -) properly
```

The keys on the remote control unit with the same names as on the main unit have the same function as the keys on the main unit.

Numeric keys	+ 22
Disc selector keys (DIS)	C1,
DISC2, DISC3)	
KARAOKE keys (only fo	r
some areas)	
KEY CONTROL keys	
ECHO keys	
HIT MASTER key	
	NG
keys	→ 19
Skip (I◄◀, ►►I) /P.CALL	keys
	- 19
Stop (∎) key	- 19
O Cursor Up, Down, Left	and
Right keys	→ 20
CLEAR key	→ 19
RETURN key	→ 19
SELECT key	→ 19
ENTER key	→ 19
S.MENU (Smart Menu) I	key
	→ 19
OSD (On screen display) key
	→ 19
TOP MENU key (PTY ke	y for
only U.K. and Europe)	→ 19



when inserting the batteries Operation Remote sensor Plug the power cord into the mains power outlet and press the on/standby (1/() POWER) key of the remote control unit to turn power ON. After the power has been turned ON, press the desired key. 6m To turn power off, press the on/standby (1/0 POWER) key again. 30 •When pressing more than one remote control keys successively, press the keys securely by leaving an interval of 1 Operating range (approx.) second or more between keys.

1. The provided batteries are intended for use in operation checking, and their service life may be short.

2. When the remote controllable distance becomes short, replace both of the batteries with new ones.

3. If direct sunlight or the light of a high- frequency fluorescent lamp (inverter type, etc.) is incident to the remote sensor, malfunction may occur. In such a case, change the installation position to avoid malfunction.

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XD-DV series (EN/K.M.T.X.Y)

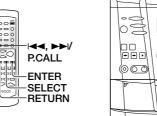
SMART MENU operation/Clock adjustment

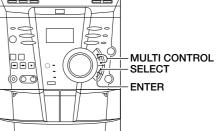
XD-DV series (EN/K,M,T,X,Y)

SMART MENU operation

When one of the MULTI CONTROL keys (I◄◄, ►►I/P.CALL keys) is pressed after the SMART MENU key (S.MENU key) has been pressed, various operations can be performed while watching the display.

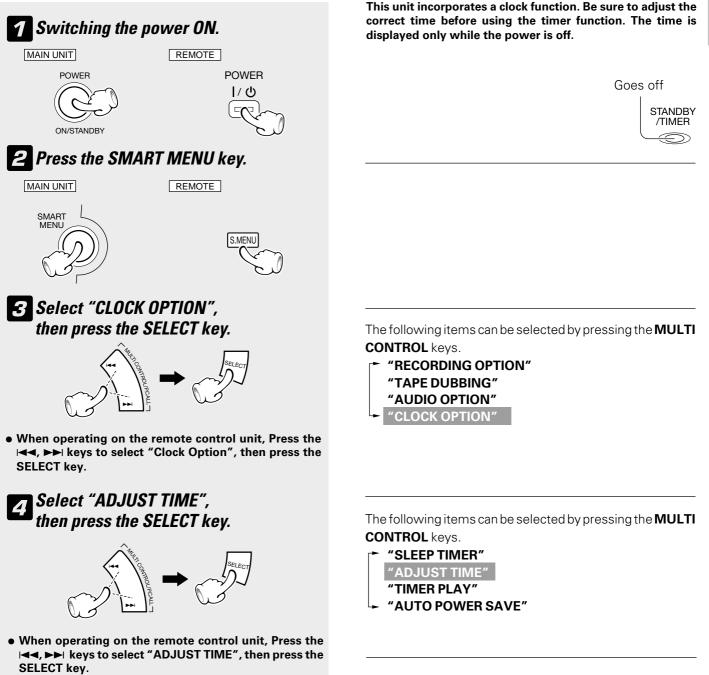
SELECT key	→Selects an item.
ENTER key	→ Confirms the selected contents.
RETURN key	→Returns to the previous operation.





Continued on next page...

Clock adjustment Adjust the clock before setting the timer.



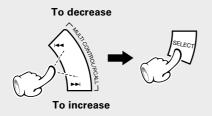
Preparations

5 Select "TIME 24H" or "TIME 12H", then press the SELECT key. To decrease

To increase

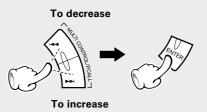
• When operating on the remote control unit, Press the I<<, ►►I keys to select "TIME 24H" or "TIME 12H", then press the SELECT key.

6 Enter the figure of hour, then press the SELECT key.



• When operating remote control unit, Press the Cursor I◄◄, ►►I keys to select figure of hour, then press the SELECT key.

2 Enter the figure of minute, then press the ENTER key.



• When operating remote control unit, Press the Cursor I◄◄, ►►I keys to select figure of minut, then press the ENTER key. The following items can be selected by pressing the **MULTI CONTROL** keys.

→ "TIME 24H"
→ "TIME 12H"

חחירק

Example of the 24 hour display.

1 1:00

Example of the 12 hour display.

• The time display starts to blink.

"TIME 24H" mode Blink

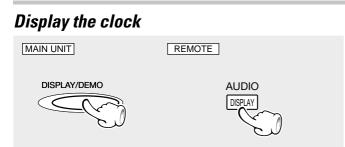
"TIME 12H" mode

Blink

• The minute display starts to blink.

"TIME 24H" mode Blink

"TIME 12H" mode Blink



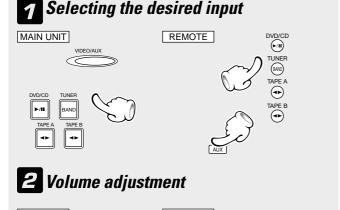
• When the **DISPLAY/DEMO** key is pressed while the power is off, the present time will be displayed for about 5 seconds.

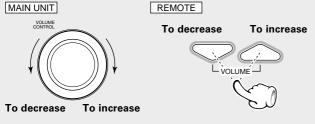
In regard to input switching between VIDEO and AUX

When the VIDEO/AUX key is pressed, the input is switched to the AUX terminal at the rear of the unit. Each time the VIDEO/AUX key is pressed for more than 2 seconds, the display is switched between VIDEO and AUX.

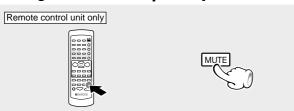


Basic use method

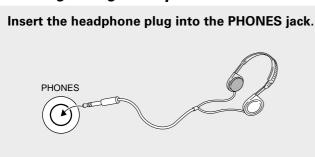




Muting the sound temporarily

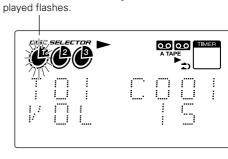


Listening through headphone



• The sounds from all speakers are cut off.

- When one of the keys on the left is pressed while the power is off, the power will be switched on automatically and the input will be selected.
- When a disc is set in the disc tray and the DVD/CD key is pressed, disc playback will start automatically. Trays without a disc will be skipped.
- When a cassette is set in the holder and the **TAPE** key is pressed, tape playback will start.



An example of DVD

The mark of the disk being

- Press MUTE key.
- Press again to resume the original volume.
- The sound muting is also cancelled when the volume is controlled.

This unit offers various surround modes, but it switches automatically to stereo mode when headphones are connected.

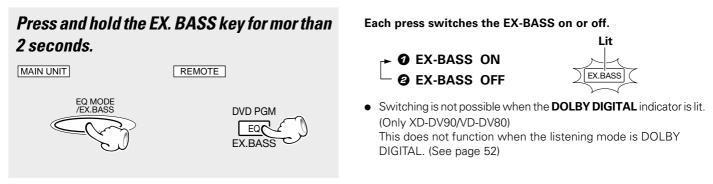
For listening via the speakers, disconnect the headphones plug and set the listening mode again. (See page 52.)

Changing the Tone

This unit is equipped with various preset equalizers and three custom equalizers, which can be preset freely, so that various sounds can be enjoyed. In addition, it has an EX-BASS function for one-touch bass correction.

Extra Bass

When the EX. BASS function is switched on, richer bass tones can be reproduced.



Selecting the desired Tone

The desired sound can be selected from five preset equalizers and three custom equalizers.

Press the EQ MODE (EQ) key.

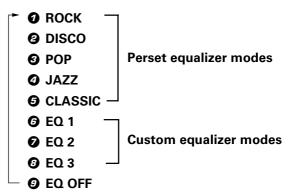
MAIN UNIT

REMOTE



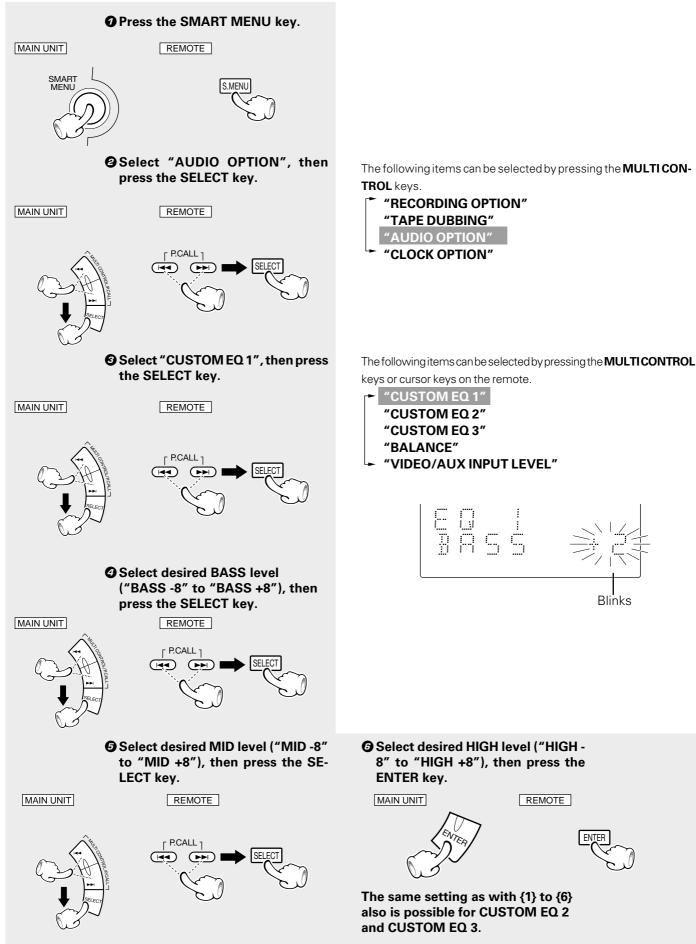


Each press switches the mode.



For use of a CUSTOM equalizer effect, the parameters must be set in advance.

To set the CUSTOM EQ.



24 Playback of discs

Sequential playback from the first track or chapter

7 Open the tray and place a disc



2 Close the tray







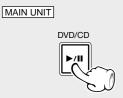
• Each press pauses and plays the disc alternately.

To change the disc of another tray during playback, do the following. ▲OPEN/CLOSE ① Press the OPEN/CLOSE key. ●

2 Set the disc.

- ③ Press the **OPEN/CLOSE** key to close the tray.
- The disc being played back remains as it is, while
- the other discs can be exchanged.

👁 🗇 🐨 To pause playback





- Each press pauses and plays the disc alternately.
- With some VCD discs, return to the menu screen is done with pause at the time of P.B.C. ON.

• The tray opens when the key is pressed and closes when the key is pressed again.

The label must be on top.

Disc number

• Depending on the disc, playback may start automatically.

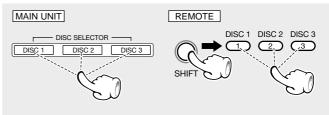
an example of DVD

When a Disc Menu appears on the screen (DVD or VCD)

In case of interactive DVDs, a Disc Menu appears on the screen. Then press **ENTER** to select specific menu you want to play by using Cursor keys.

Elapse time

The operation method may differ according to the disc.



REMOTE

CD CD To stop playback





• Press the ■ key twice to cancel playback.

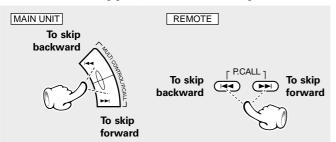
RESUME playback

When playback has been stopped while watching a movie, it may be desired to restart playback from the stopped part. This unit memorizes the stop position even when the power is switched off, and when the unit is switched on again, it is possible to continue playback from the previous stop position. This function is called the RESUME function. When the **■** key has been pressed once during playback to stop the playback, and then playback is started again, play will start from the point where the playback had been stopped. When the **■** key is pressed again during stop, the RESUME function is cancelled.

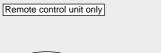
RESUME is cancelled when 5 minutes have passed in RESUME status.

Playback from the desired track or chapter

W^{CD}**CDWD**

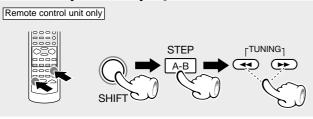


High-speed search in forward and reverse directions

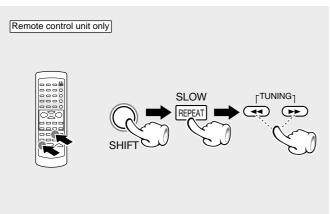




Comparison Step Motion playback



Comparison of the second second



- The chapter (or track) in the direction of the key pressed is skipped, and the selected chapter (or track) will be played from the beginning.
- When the I key is pressed once during playback, the chapter (or track) being played will be played from the beginning.
- When P.B.C. (see page 00) is switched ON at the time of VCD playback, there will be no return to the preceding track.
- During playback, press the *d* or *key*
- Each press switches the searching speed.

(At the time of DVD playback)

1	F. SEARCH 1 / R. S	EARCH 1
	F. SEARCH 2 / R. S	
3	F. SEARCH 3 / R. S	EARCH 3
4	F. SEARCH 4 / R. S	EARCH 4

(CD) **VCD** (At the time of CD/VCD playback)

~	• (
-	① F. SEARCH 1 /	R. SEARCH 1
	② F. SEARCH 2 /	R. SEARCH 2
	③ F. SEARCH 3 /	R. SEARCH 3

Press the ►/II key at any time to resume normal playback.

Press the SHIFT key and then press the STEP key within 5 seconds. Press the ◄◄ or ►► key.

- Each time the **dor b** key is pressed, a new frame will appear.
- Press ►/II key to resume normal playback.

Press the SHIFT key and then press the SLOW key within 5 seconds. Press the ◄◄ or ►► key.

• Each press switches the searching speed.

(At the time of DVD playback)

- ① F. SLOW 1/16 / R. SLOW 1/16
 - ② F. SLOW 1/8 / R. SLOW 1/8
 - ③ F. SLOW 1/4 / R. SLOW 1/4
- ④ F. SLOW 1/2 / R. SLOW 1/2

CD VCD (At the time of CD/VCD playback)

- 1 F. SLOW 1/8 / R. SLOW 1/8 ② F. SLOW 1/4 / R. SLOW 1/4
- ③ F. SLOW 1/2 / R. SLOW 1/2
- Press the ►/II key at any time to resume normal playback.

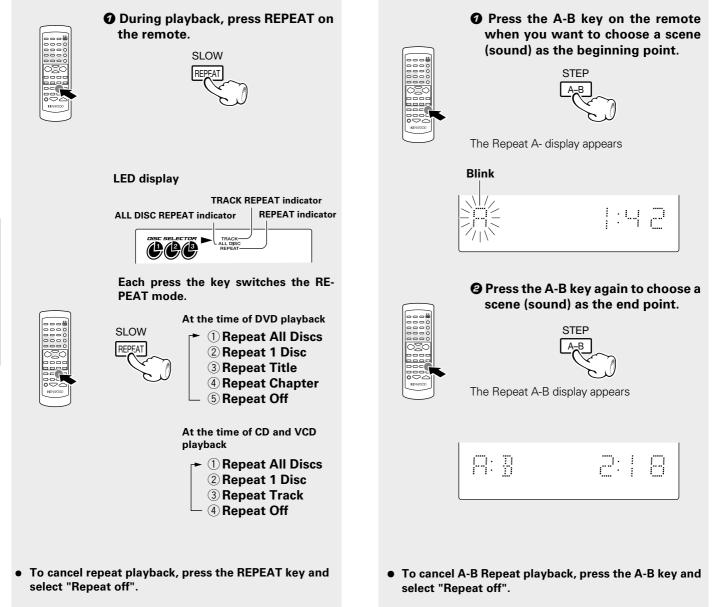
ment you want to replay.

The A-B repeat function lets you mark a segment to repeat between the beginning "A" and the end "B" of the seg-

OD CD CD Repeat play

Desired tracks or all discs can be played back repeatedly.

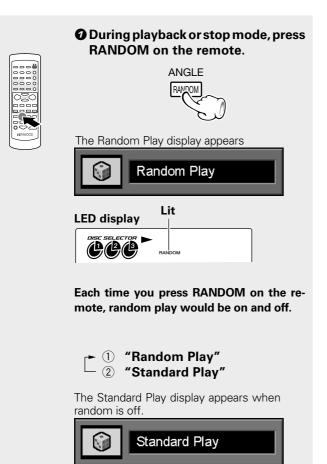
- All Disc Repeat all discs.
- 1 Disc- Repeat the disc that is playing.
- Title Repeat the title that is playing.
- Chapter Repeat the chapter that is playing.
- Track Repeat the track that is playing.



At the time of VCD playback, this function operates only when P.B.C. is OFF.

© © Random play

The tracks of the disc are played in random order.



• The menu is switched off when no operation is performed for about 3 seconds.

- When the RANDOM key is pressed during playback, the tracks of the disc being played will be selected in random order for playback.
- After all tracks of a disc have been played in random order, playback will stop. (Random mode will be cancelled.)

- When the **RANDOM** key is pressed during random playback, return to normal playback will be made from that track on.
- When All Disc Repeat is selected and the **RANDOM** key is pressed, random playback will be performed for the disc being played, and then the unit will shift to random playback of the next disc. When a DVD disc is set at this time, the random mode will be cancelled when the unit shifts to the DVD disc, and return to normal playback will be made. The random function does not operate with DVD discs.

28 Program play (Using the On-screen display)(DVD/CD/VCD)

XD-DV series (EN/K,M,T,X,Y)

Program Edit



During stop mode, press the SHIFT key on the remote, then press the DVD PGM key on the remote.
 DVD PGM
 DVD PGM

Select desired disc number, title, chapter or track by Press Cursor up/down (▲/▼) keys or numeric keys.



OPress the ENTER key.



Select Add icon on the screen to register selected value onto Playlist, then press the ENTER key.



You can select maximum 32 values by repeating step 9 - 9.

Press the PLAY key to start playback.

Delete Program



O Use the Cursor up/down (▲/▼) keys to select the column to be deleted from the "Play list". (The color of the column where the Cursor is located will change.)



Press the Cursor left (◄) key, use the Cursor up/down keys to move the Cursor to the Delete icon, and press the ENTER key.



Selected chapter (track) deletes

Program edit display appears.

PROGRAM EDIT	f syli∋l
Director Tille Orapost 1 1 ALL 312 (2)	Atd Deese Flax Done

(An example of DVD program edit menu)

- : (blue) Selected icon
- I : An icon which can be selected
 - : An icon which presently can not be selected

PROG	RAM E	DIT		≓ aytı≞t			
5i-c 1	T IIe 1 (12)	Orapas ALL (2)	Add Deex Phy Done				

- When you don't add values onto "Playlist" and return to play mode, select Done icon and press ENTER key on the remote.
- To return to standard play, press SHIFT key, then press DVD PGM key on the remote.
- While a disc is playing, press SHIFT key, then press DVD PGM key on the remote to start Program play.
- When the Done button is selected and the ENTER key is pressed, the program input mode is cancelled.

PROGRAM EDIT	PROGRAM EDIT				
Dies Tille Grap 1 1 4.1 (12) (2)					

It is possible to delete all programs by one of the following methods.

- 1. Press the OPEN/CLOSE key to open the tray or
- 2. Switch off the power.

Insert chapter or track

Press the SHIFT key on the remote, then press the DVD PGM key on the remote.
DVD PGM



Select specific title/chapter or track to insert by Press Cursor up/down (▲/▼) keys or numeric keys.

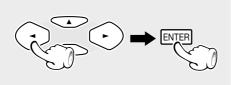


Ove the cursor with the Cursor right (▶) key to the "Play list" and select the column to be added with the Cursor up/down (▲/▼) keys.



(The color of the column where the Cursor is located will change.)

Ø Move the cursor with the Cursor left (◄) key to the Insert icon and press the ENTER key.



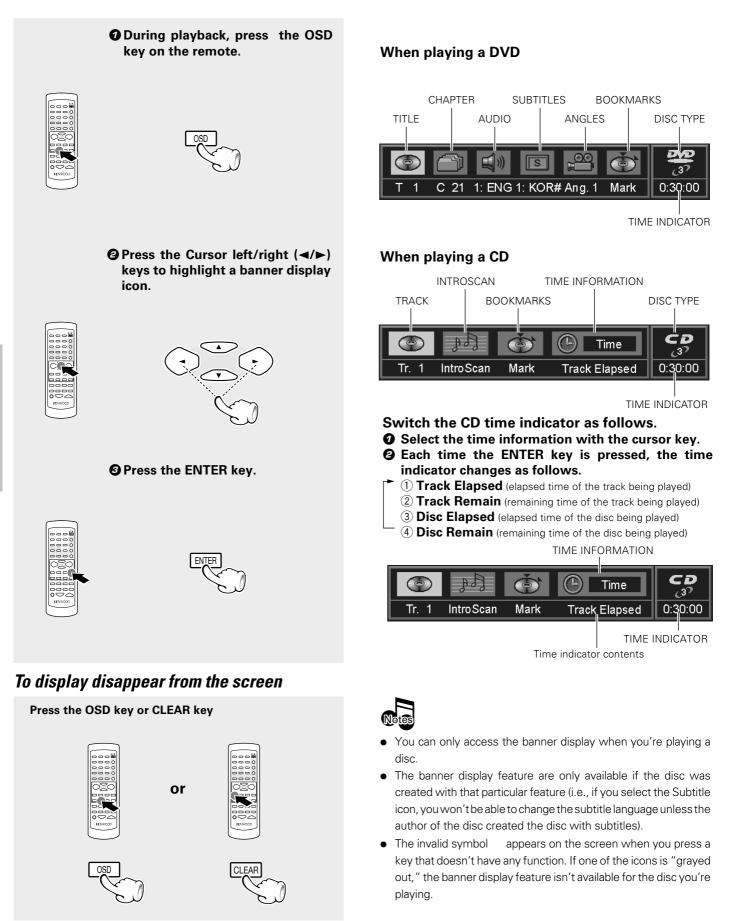
The new chapter or track will be inserted before (above) the selected column. Program edit display appears.

(An example of DVD program edit menu)

³⁰ Using the On-screen banner display

XD-DV series (EN/K,M,T,X,Y)

The on-screen Banner Display contains many playback features. To see the Banner Display, press OSD key on the remote while a disc is playing. Use the Cursor (Up/Down/Left/Right) keys on the remote to move through the different features in the Banner Display. Each feature is illustrated with an icon.



DCD Selecting a Chapter or Track

Because DVD discs use digital technology, a title can be divided into individual chapters (similar to tracks on a CD).

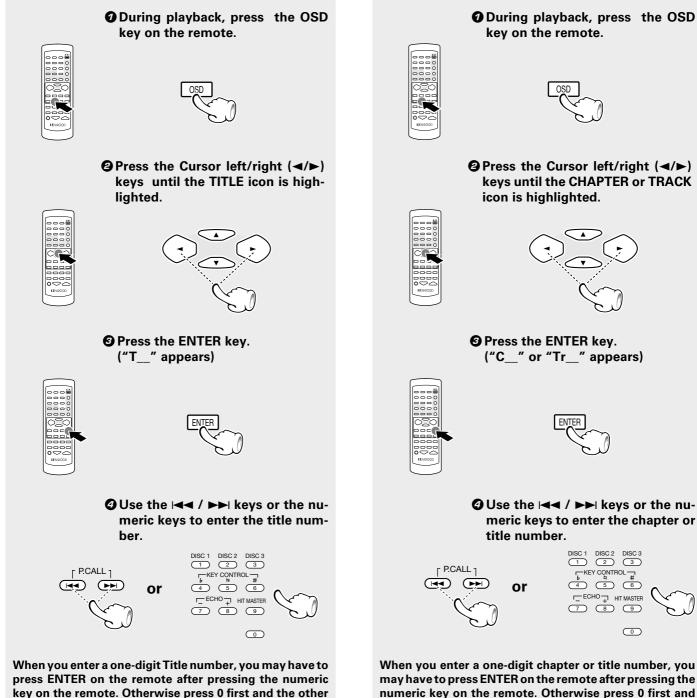
You can skip a specific chapter by using the Chapter section

in the Banner Display.

XD-DV series (EN/K,M,T,X,Y)

Selecting a Title

Some discs contain more than one title. For example, there might be four movies on one disc (each movie might be considered a title).



When you enter a one-digit chapter or title number, you may have to press ENTER on the remote after pressing the numeric key on the remote. Otherwise press 0 first and the other value. Then play starts. This varies depending on number of chapter or track within the disc you're playing.

Note

The Chapter feature won't work if the disc isn't formatted with separate chapters.



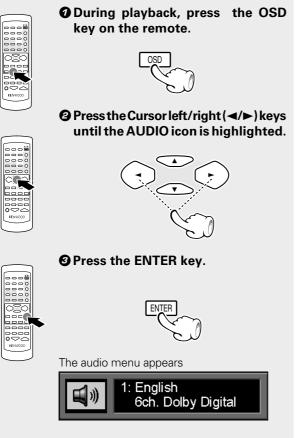
of Title within the disc you're playing.

value. Then play starts. This varies depending on number

D Changing the Audio Language

If the disc was created with different language tracks, you can use the Banner Display to temporarily change the DVD player's Audio setting.

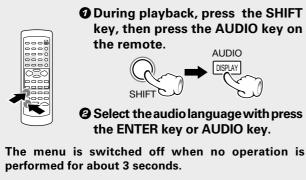
Using the on-screen banner display

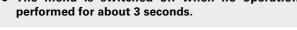


O Select the audio language with press the ENTER key.

• The menu is switched off when no operation is performed for about 3 seconds.

Using the AUDIO key on the remote







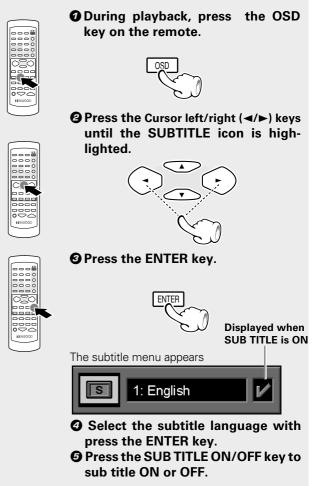
1. The language feature only works if the disc was created with multiple audio tracks.

2. When you chose an audio language from the Banner Display, you only override the audio language setting in the DVD Player's main menu (in the Language Preferences menu within Setup menu) temporarily.

Description Changing the Subtitle Language

You can change the Subtitle language while you're watching a disc (but only if the disc was created with subtitles).

Using the on-screen banner display



The menu is switched off when no operation is performed for about 3 seconds.

Using the SUB TITLE key on the remote

- **O** During playback, press the SHIFT key, then press the SUB TITLE key on the remote
- **O**Select the subtitle language with press the ENTER key or SUB TITLE key.
- **O** When the SUB TITLE ON/OFF key is pressed, subtitles will be displayed. Switching between display of subtitles and no display of subtitles is done each time the key is pressed.

Displayed when SUB TITLE is ON



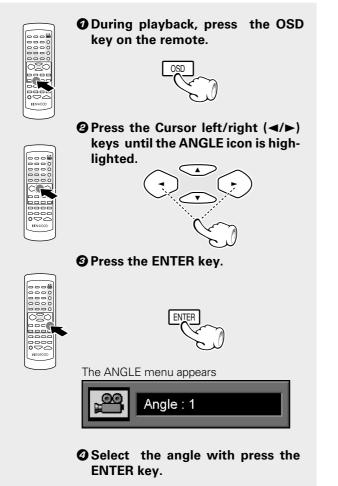


1. The subtitle feature only works if the disc was created with multiple audio tracks.

D Changing the Camera angle

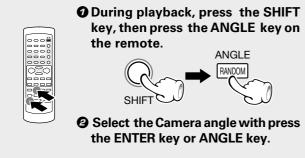
Some disc contains multiple angles particular scene or sequence. If the disc only has one angle, this feature won't work.

Using the on-screen banner display



• The menu is switched off when no operation is performed for about 3 seconds.

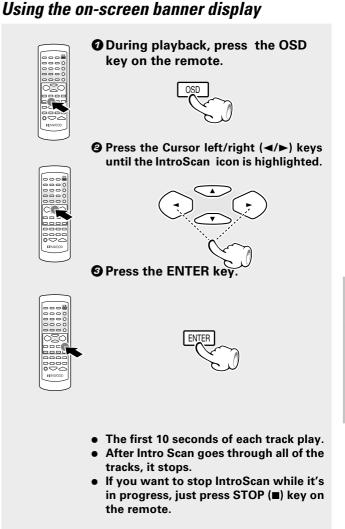
Using the ANGLE key on the remote



• The menu is switched off when no operation is performed for about 3 seconds.

Output Description

IntroScan plays the first few seconds of each track on the CD similar to the scan feature that's on many car radios.

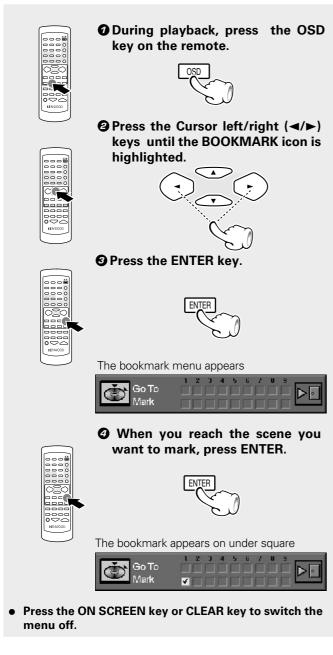


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CD CD Using Bookmarks

The bookmark feature lets you mark a point on the disc that you can go to quickly. You can store up to 9 bookmarks.

Create the bookmark



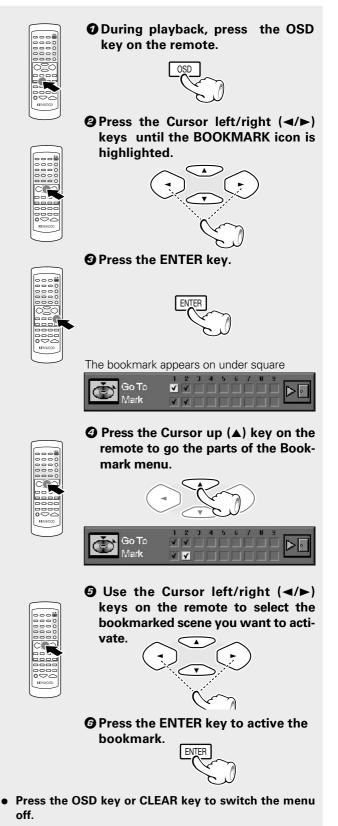
Clearing a bookmark

The bookmark is cleared each time a disc is removed from the player or when the power is turned off.

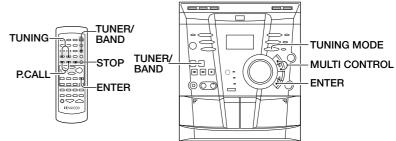


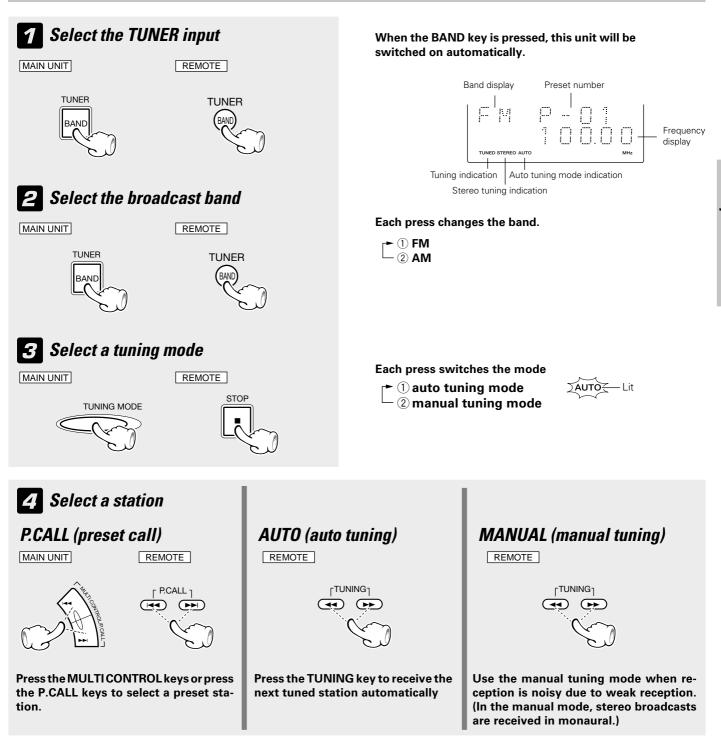
- If all 9 bookmarks are in use, you can still mark new scenes, but the previous bookmarks will be erased.
- Depending on the disc, the Bookmark function may not work.

Recalling a bookmarked scene



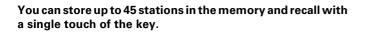
It is also possible to receive them by one-touch operations by storing up to 45 stations in the preset memory. (see page 36)





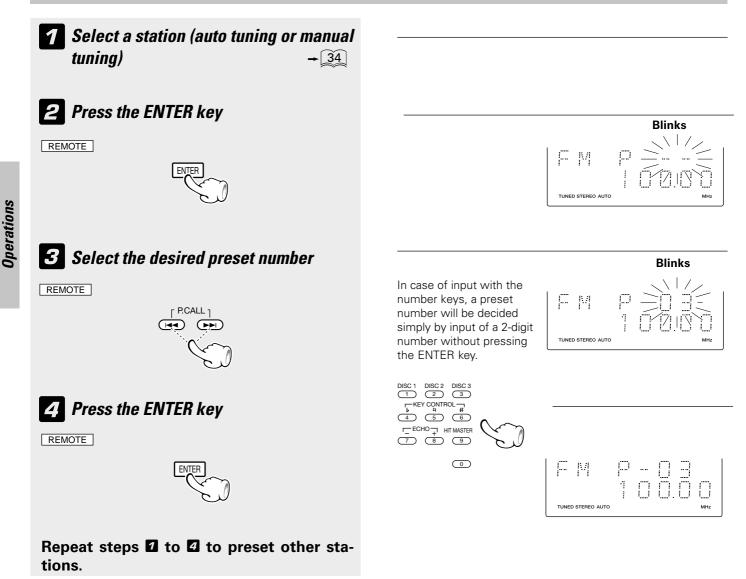
XD-series (EN/T.M.X)

XD-series (EN/T,M,X)





Storing the broadcast stations (one-by-one presetting)



RDS is a system which transmits useful information (digital data) for FM broadcasts together with the broadcast signal. Tuners and receivers designed for RDS reception can extract the information from the broadcast signal for use with various functions such as automatic display of the station name.



Functions made possible with RDS

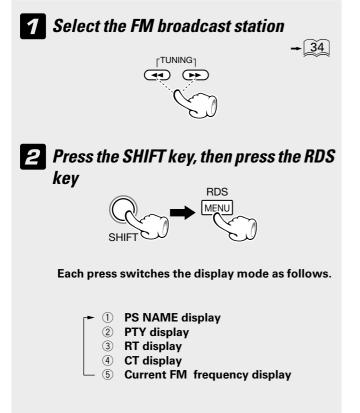
PTY (Program Type Identification) Search :

The tuner automatically searches for a station which is currently broadcasting a specified program type (genre).

PS (Program Service Name) Display :

When an RDS broadcast is received, the station name is automatically displayed.

Using the RDS Display function



TUNING

RT (Radio text) : Displays the radio text data transmitted by some RDS stations when you select the **RT** mode.

CT (Clock Time) :

Decodes the real time clock from the FM frequency.



PS NAME

- If the PS information is being received, the PS name (BBC, AFO, NDR, etc.) is shown on the display.
- If the PS information is not received, the original FM frequency is shown.
- Even though no **RDS key** is pressed, the reception of PS information ensues the PS name is displayed.

RT display

• Text data accompanying the RDS broadcast scrolls across the display (64 characters can be displayed).



• If the RT information is not received, the "**NO RT**" is shown on the display.

CT display

- If the CT information will take up to 2 minutes to be decoded therefore the clock is not displayed immediately.
- If the CT information is not received, the "NO CT" is shown on the display.
- The CT clock does not update the system clock.

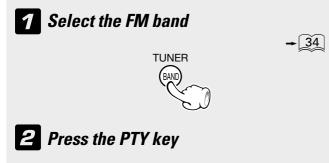
PTY function

38

The PTY information is composed of an identification symbol, which helps the FM radio to recognize the program type of each FM station.

The 29 PTY modes are shown in the display by pressing the PTY key.

Using the PTY search function





• The PTY MODE (POP M, ROCK M etc.) appears on the display.

3 Press the P.CALL (I

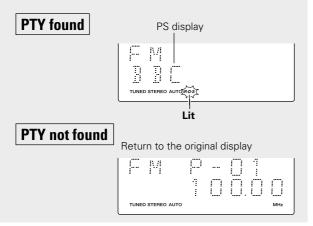


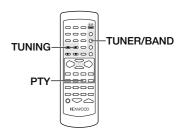
4

When the program type is selected, press the PTY key.



Auto-search the station sequentially • Press again during search to cancel.

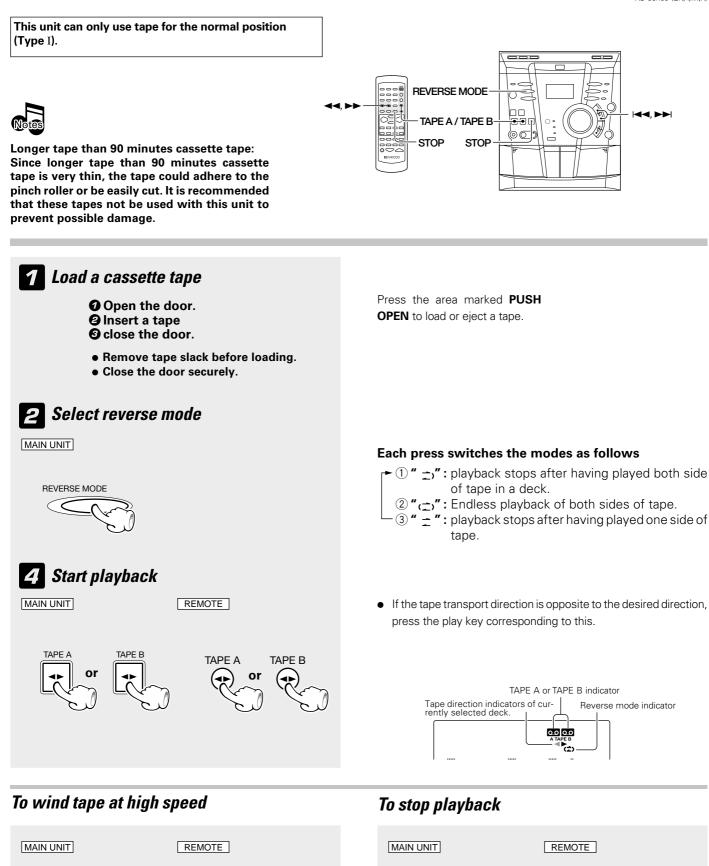




RDS Program types

Program Type Name	Receiver Display
News	NEWS
Current Affairs	AFFAIRS
Information	INFO
Sport	SPORT
Education	EDUCATE
Drama	DRAMA
Culture	CULTURE
Science	SCIENCE
Varied	VARIED
Pop Music	POP M
Rock Music	ROCK M
Easy Listening Music	EASY M
Light Classical Music	LIGHT M
Serious Classical Music	CLASSICS
Other Music	OTHER M
Weather	WEATHER
Finance	FINANCE
Children's programms	CHILDREN
Social affairs	SOCIAL
Religion	RELIGION
Phone in	PHONE IN
Travel	TRAVEL
Leisure	LEISURE
Jazz Music	JAZZ
Country Music	COUNTRY
National Music	NATION M
Oldies Music	OLDIES
Folk Music	FOLK M
Documentary	DOCUMENT

Playback of tapes

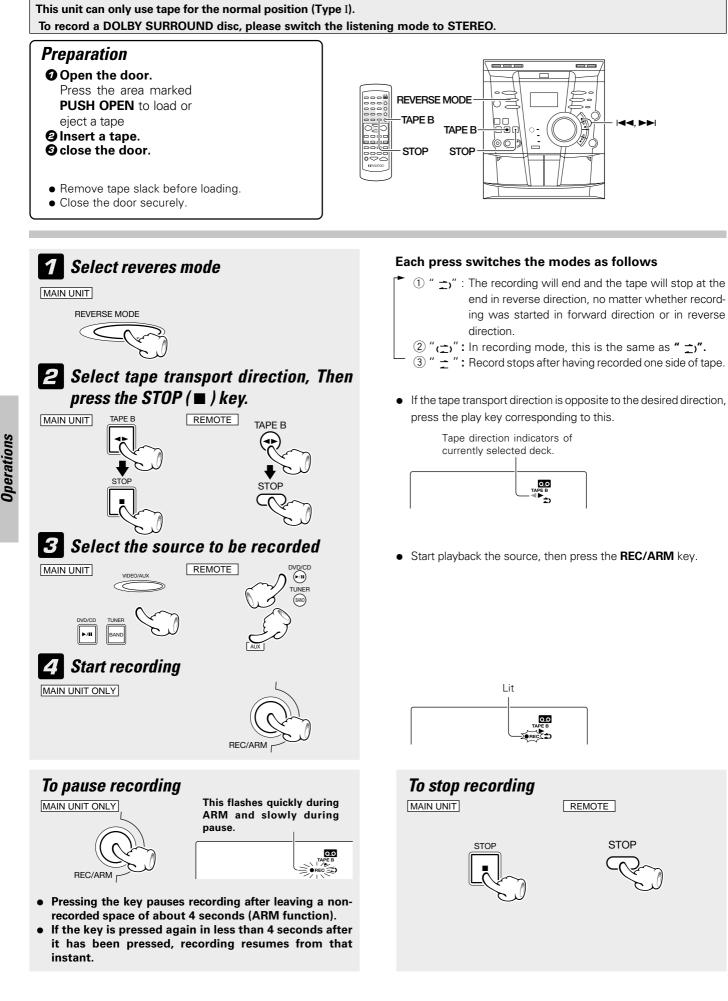


STOP

TUNING

40 Normal Recording (TAPE B only)

XD-series (EN/T,M,X)



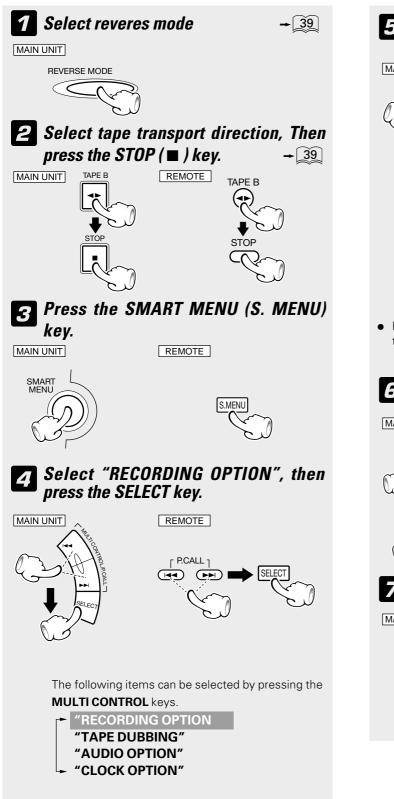
This unit can only use tape for the normal position (Type I).

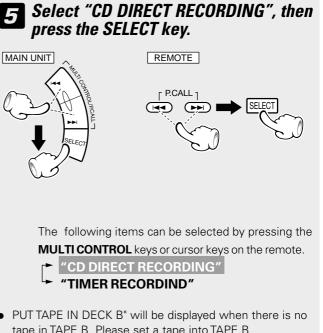
CD Direct recording is not possible for a DOLBY SURROUND disc. Please switch the listening mode to STEREO and perform normal recording. (See page 52)

With CD Direct recording, an entire CD is recorded and CD and TAPE stop automatically.

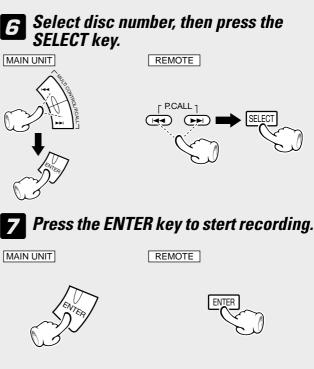
Preparation

See "Preparation" on page 40.



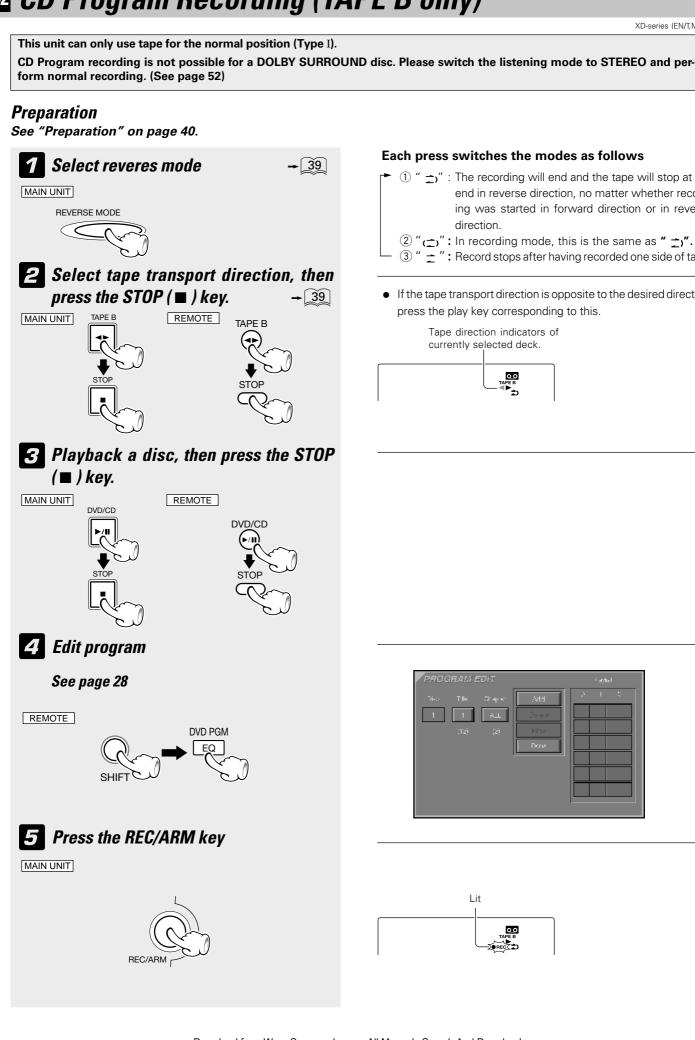


• PUT TAPE IN DECK B" will be displayed when there is no tape in TAPE B. Please set a tape into TAPE B.



42 CD Program Recording (TAPE B only)

XD-series (EN/T.M.X)



Each press switches the modes as follows

(1) " \downarrow ": The recording will end and the tape will stop at the end in reverse direction, no matter whether recording was started in forward direction or in reverse

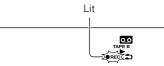
(2) " (\pm) ": In recording mode, this is the same as " \pm)".

(3) " \pm ": Record stops after having recorded one side of tape.

• If the tape transport direction is opposite to the desired direction, press the play key corresponding to this.

> Tape direction indicators of currently selected deck.



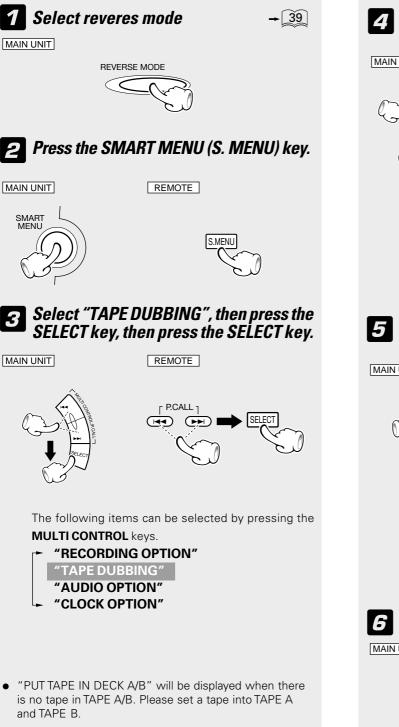


TAPE DUBBING

Operations

This unit can only use tape for the normal position (Type $\ensuremath{\mathrm{I}}\xspace).$

Tapes can be copied easily using the tape dubbing function.

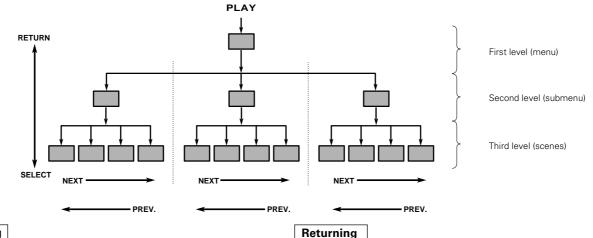


Select tape transport direction of TAPE A, then press the SELECT key. MAIN UNIT REMOTE F P.CALL The following items can be selected by pressing the MULTI CONTROL keys or cursor keys on the remote. "DECK A **"DECK A** / / / : backward direction Select tape transport direction of TAPE B, then press the SELECT key. MAIN UNIT REMOTE P.CALL The following items can be selected by pressing the MULTI CONTROL keys or cursor keys on the remote. **"DECK B** ": forward direction - "DECK B ": backward direction 6 Press the ENTER key to stert recording. REMOTE MAIN UNIT

Hierarchical structure of VCD menus (P.B.C.)

When an item is selected on the menu screen during playback of a P.B.C.-compatible VCD, another menu with more details items may be displayed. When a number of menus are connected in multiple layers in this way, it is said that the menus have a hierarchical structure. In this structure, the desired scene can be reached by repeating item selections on the menu screens.

Example for a hierarchical structure



Advancing

When an item is selected on the menu screen with the \blacktriangleright key or the numeric keys, advance is made to the next lower menu level. When the advance destination is the "scene" to be played, the contents will be played. Each time the RETURN key is pressed, return is made to the next higher menu.

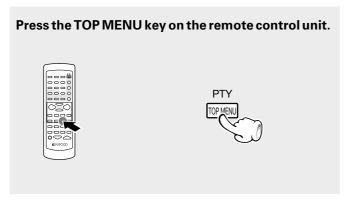
• When several menus (scenes) can be selected in each level, screen switching is possible with the keys ►►I and I◄◄.

Examples of operation keys and indications used during VCD playback

Soft jacket indication	•	5	44	
KENWOOD operation key	►/11	RETURN	SKIP DOWN	SKIP UP

• Depending on the software, the jacket indication may differ from the above.

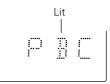
Playback without using the menu playback function (In case of a P.B.C.-compatible VCD)



- For the track numbers, refer to the disc jacket or other material.
- P.B.C. off mode : Without using menu playback function.

To return to menu playback

Press the TOP MENU key again.



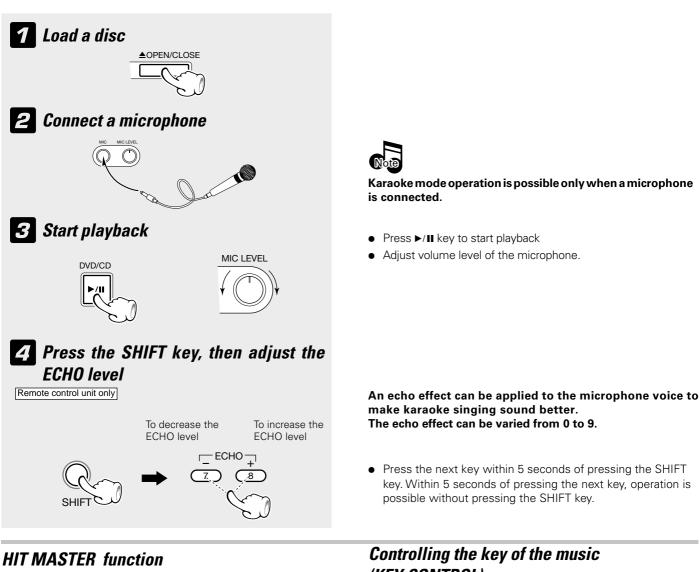
Enjoying karaoke singing (only for some areas)

XD-series (FN/T.M.X)

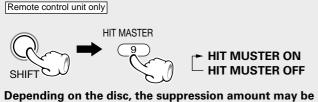
Software with which this function is available:

DVD VCD (CD)

Start playback



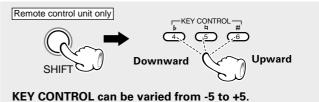
The sound level of the vocal part of the disc is suppressed, so that it can be used in the same way as a KARAOKE disc.



smaller.

(KEY CONTROL)

This feature allows to transpose the key of the music according to the key of the singer's voice.



Set up menu

The initial setup of the player, which has been made at the factory, can be changed to the desired setup.





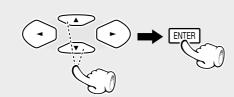
key on the remote.

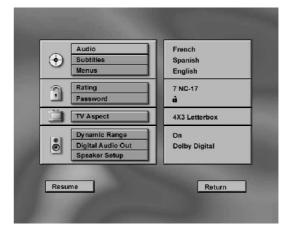
O During stop mode, press MENU

Current setup menu display appears on the screen.

\Theta Press Cursor up/down (\blacktriangle/∇) keys on the remote to select the item, then press the ENTER key to access the sub features



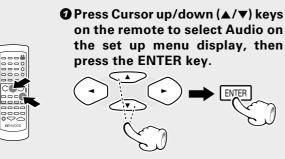




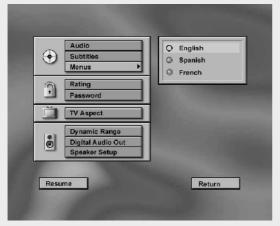
Return button	When this is selected and the ENTER key is pressed, return will be made to the previ-
	ous screen.
Play:	When this button is selected with a
	stopped disc and the ENTER key is pressed,
	playback will start.
Resume:	When this button is selected with a disc in resume status and the ENTER key is pressed, resume playback will be started.

Audio / Subtitle (disc languages)	······································		
Menus	: This sets the initial setup of language as well as the language used in on-screen messages such as "PLAY".		
Rating (Palental Lock)	: This can restrict playback of adult-oriented DVD discs that you do not want to be seen by children. However, even when a DVD disc is marked "Adult-oriented" or so on the label, its viewing cannot be restricted unless the restriction level is recorded in the disc itself.		
Password	: The password for rating	setting, change, cancellation, etc. is set.	
TV Aspect	: This sets the screen size 4 x 3 letterbox	 e (4:3 or 16:9 aspect ratio) according to the connected TV. : Choose this setting if you would prefer to see movies in their original aspect ratio. You will see the entire frame of the movie, but it will occupy a smaller portion of the screen. This setting may result in the movie appearing with black bars at the top and bottom of the screen. 	
	4 x 3 Pan Scan	 Choose this setting if you want the movie to fill the entire screen of your TV. You won't see part of the picture (particularly the right and left edge). Some disc produced in a wide screen format can't be cropped in this fashion, which means the black bars would appear at the top and the bottom of the screen. 	
	16 x 9 Widescreen	: Choose this setting if your DVD player is connected to a widescreen TV.	
Dynamic Range	: This is set to ON when t late at night.	he volume change should not become overly large, for example when listening	
Digital Audio Out	: This sets the Digital aud	lio output mode.	
Speaker Setup	[:] This is used to select the delay time.	e size of the connected speakers, to adjust the volume, and for setup of the	
	T E RETURN key TURN key is pressed, the d	lisplay returns to the previous screen (STOP	

Select Audio Language

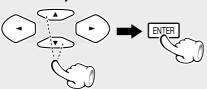


(Audio menu appears.)



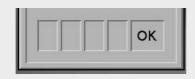
Press Cursor up/down (▲/▼) keys on the remote to select specific Audio language, then press the ENTER key.





To select other language

① Select "Other" and press EN-TER key

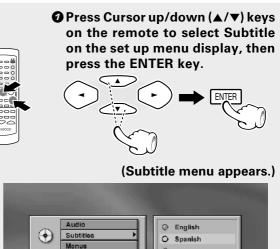


- ② Input code in the first digit by Press Cursor up/down (▲/▼) keys or numeric keys on the remote and repeat other 3 code with same way.
- ③ Select "OK" icon and press ENTER.

(DVD menu language code list → 35)

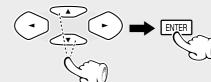
• Press PLAY key to resume normal playback.

Select Subtitle Language





Press Cursor up/down (▲/▼) keys on the remote to select specific Subtitle language, then press the ENTER key.



To select other language

① Select "Other" and press EN-TER key

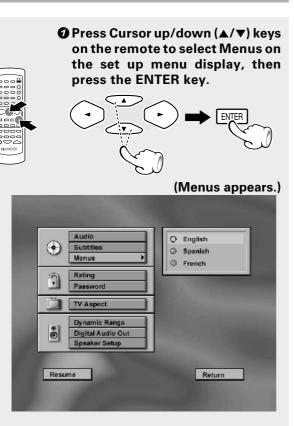


- ② Input code in the first digit by Press Cursor up/down (▲/▼) keys or numeric keys on the remote and repeat other 3 code with same way.
- ③ Select "OK" icon and press ENTER.

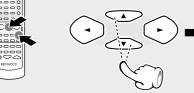
(DVD menu language code list → 35)

• Press PLAY key to resume normal playback.

👁 Select Menu Language



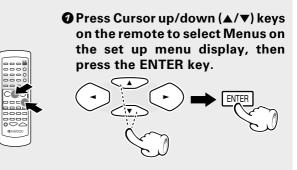
Press Cursor up/down (▲/▼) keys on the remote to select specific Audio language, then press the ENTER key.



• Press PLAY key to resume normal playback.

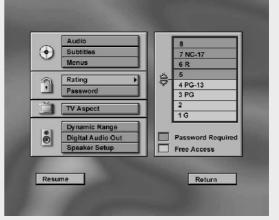
Select Rating (Palental Lock)

This part of DVD rating lets you determine how your player will react discs that contain movies that are rated (in the U.S.A. the Motion Pictures Association of America rates movies as G, PG, PG-13, etc.).

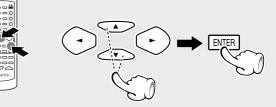


When a password already has been set, the screen for change of the entered password will be displayed. In that case, enter the password. (See page 31.)

(Rating aspect menu appears.)



Press Cursor up/down (▲/▼) keys on the remote to highlight rated titles, then press the ENTER key.



• Press PLAY key to resume normal playback.

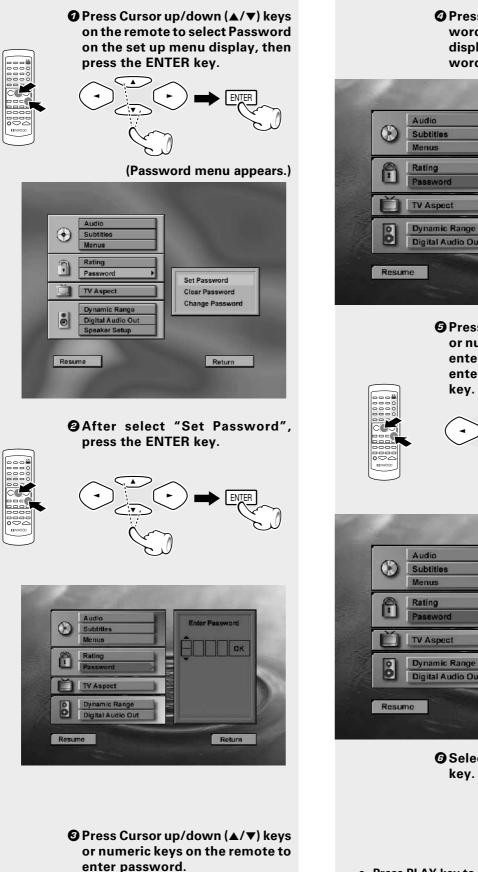
Palental lock level

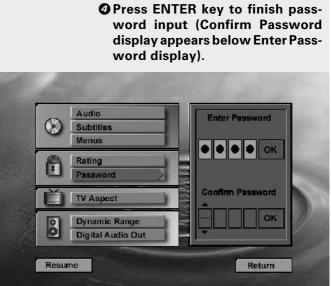
- Level 8: All DVDs can be played back. (Factory preset)Level 7 to 2: DVDs for general audiences/children can be played back. (DVDs for adults are prohibited.)
- **Level 1:** DVDs for children can be played back. (DVDs for adults/general audiences are prohibited.)

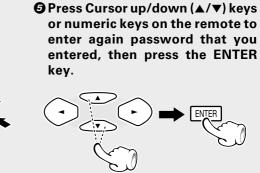


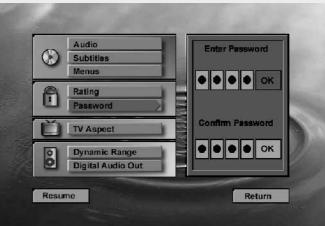
D Password

Input password









G Select OK and press the ENTER key.

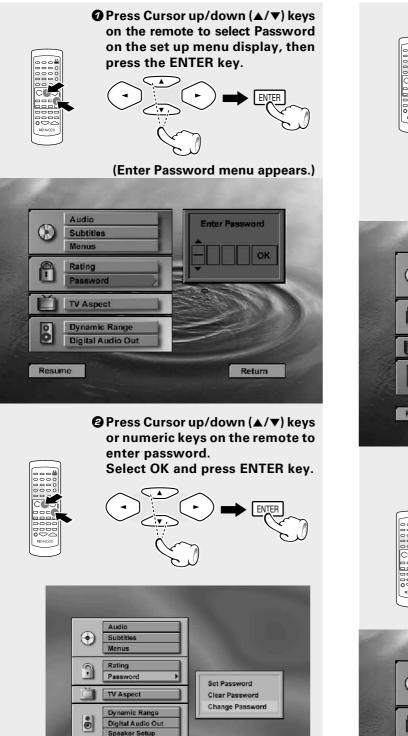


• Press PLAY key to resume normal playback.

Password (continued)

Change password

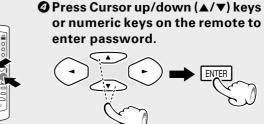
50



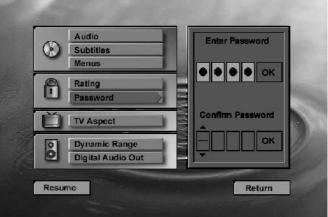
OPress Cursor up/down (▲/▼) keys to select Change Password, then press ENTER key.

Return

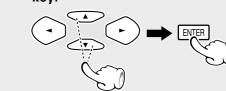
Resume

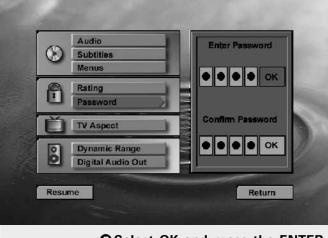


GPress ENTER key to finish password input (Confirm Password display appears below Enter Password display).



G Press Cursor up/down $(\blacktriangle/\triangledown)$ keys or numeric keys on the remote to enter again password that you entered, then press the ENTER key.

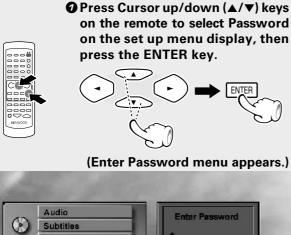




Select OK and press the ENTER key.

Password (continued)

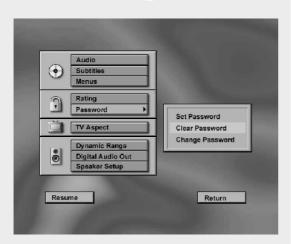
Clear password





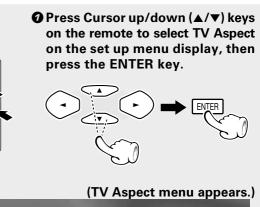
Press Cursor up/down (▲/▼) keys or numeric keys on the remote to enter password. Select OK and press ENTER key.





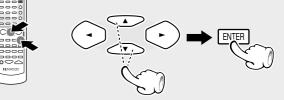
OPress Cursor up/down (▲/▼) keys to select Clear Password, then press ENTER key.

IV aspect



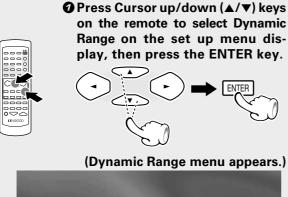


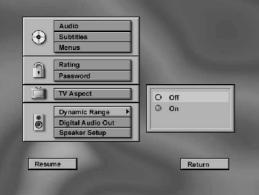
Press Cursor up/down (▲/▼) keys on the remote to select TV Aspect menu, then press the ENTER key.



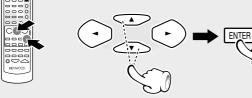
• Press PLAY key to resume normal playback.

Dynamic Range



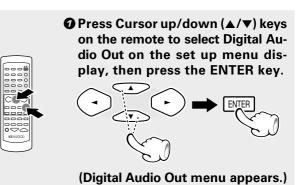


Press Cursor up/down (▲/▼) keys on the remote to select Dynamic Range mode (on or off), then press the ENTER key.



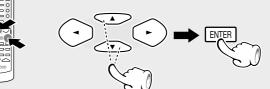
• Press PLAY key to resume normal playback.

Digital Audio Out





Press Cursor up/down (▲/▼) keys on the remote to select Digital Audio mode, then press the ENTER key.



• Press PLAY key to resume normal playback.

What are surround modes?

You can experience true home-theater sound with your new system. This system incorporates several listen modes to let you enjoy surround sound with a wide variety of program sources. Each produces multiple channels of surround-sound, but each does it differently.

• Dolby Digital : Dolby Digital uses an encode/decode process based on its theatrical digital surround sound technology. The five main channels are full-frequency and independent, so sound can completely envelop you or soar anywhere in the room, just like at the movies. (only for XD-DV90 and XD-DV80)

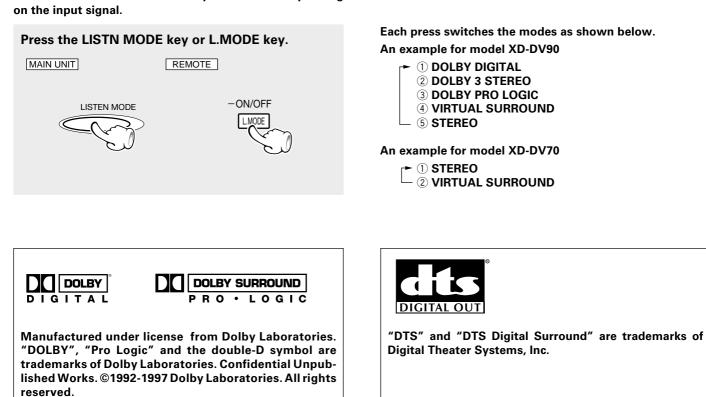
Compared with Dolby Pro Logic, Dolby Digital has more clarity, greater surround envelopment, and more realistic sound movement between channels.

• Dolby Pro Logic: Dolby Pro Logic is a decoding process which provides theater-like surround sound from Dolby Surround encoded sources (such as videotape and LaserDisc software that are marked with the Dolby Surround logo). It offers excellent sound movement across the front of the room and a surround ambiance that seems to immerse you in a movie. Your system is equipped with a Dolby Pro Logic surround decoder to let you enjoy the wide variety of currently available Dolby Surround home video software. (only for XD-DV90 and XD-DV80)

• Virtual surround: -----new-----

To set the surround mode manually

The available surround modes may be restricted depending



Each press switches the modes as shown below. An example for model XD-DV90

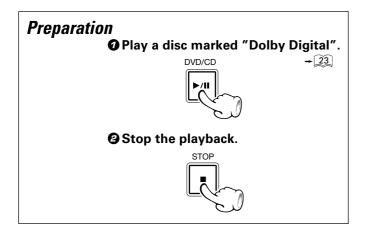
► ① DOLBY DIGITAL
2 DOLBY 3 STEREO
③ DOLBY PRO LOGIC
④ VIRTUAL SURROUND

An example for model XD-DV70

- ② VIRTUAL SURROUND

Positioning the speakers

To achieve the optimum effects obtainable with this SURROUND SOUND system, it is important to position the speakers properly. Refer to the following illustration to find the best location in your room.



SPEAKER SELECT

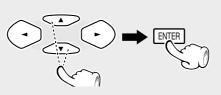




OPress the MENU key.

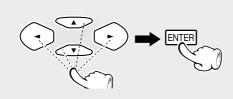
Press Cursor up/down (▲/▼) keys on the remote to select Speaker Setup menu, then press the ENTER key.

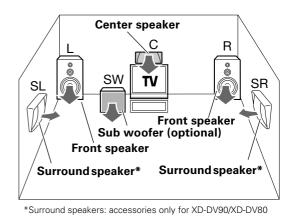


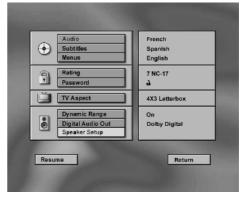


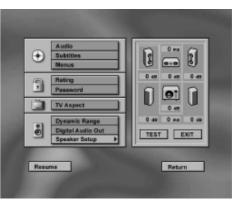
Press the cursor up/down (▲/▼) key or cursor left/right (◄/►) to select Front Left (or Right) speaker, then press the ENTER key





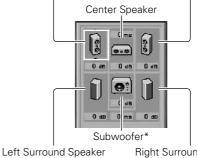






Left Front Speaker

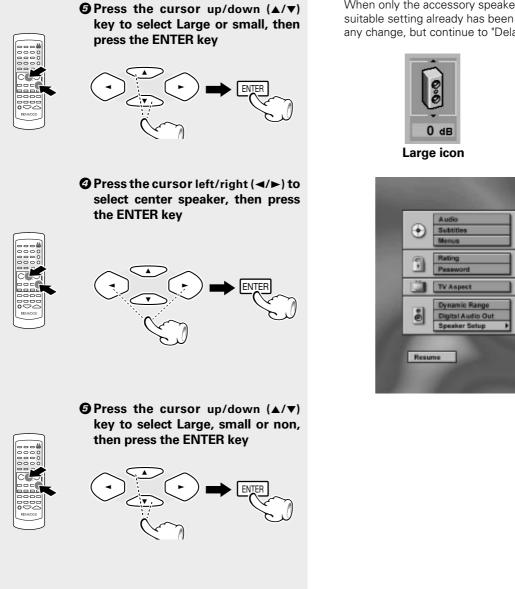
Right Front Speaker



er Right Surround Speaker

At the time of shipping from the factory, the setting is for no subwoofer (no indication).

Continued on next page...



Left front speaker and right front speaker are changed at the same time.

Select in the same way for center speaker, surround speaker and subwoofer.

When only the accessory speakers are to be used, the most suitable setting already has been made. Please do not make any change, but continue to "Delay time setting".



Small icon

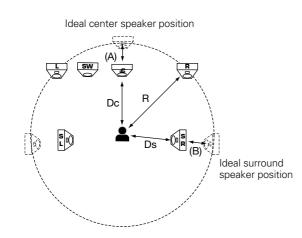


Operations

Delay time setting

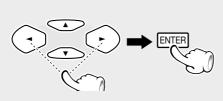
The ideal listening position for 6-channel surround playback is the point at equal distance from all speakers.

By setting the delay time for the center and surround speakers, this item realizes the ideal listening position virtually. (The center and surround speakers can be set as if they are laid out on the dotted line circle shown below.)

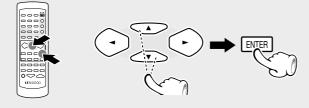


⑦ Press Cursor left/right (◄/►) keys to select center speaker's delay time button on the Speaker Setup menu, then press the ENTER key.





Press the cursor up/down (▲/▼) keys to select delay time, then press the ENTER key



Select the delay time in the same way also for surround. Different settings for left and right surround speaker are not possible.

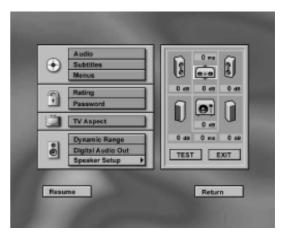
[Center speaker setting]

(A) = R - Dc

Distance A	Setting
0 cm	0 ms
Approx. 40 cm	1 ms
Approx. 80 cm	2 ms
Approx. 120 cm	3 ms
Approx. 160 cm	4 ms
Approx. 200 cm	5 ms

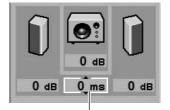
[Surround speaker setting] (B) = R - Ds

Distance B	Setting
0 cm	0 ms
Approx. 200 cm	5 ms
Approx. 400 cm	10 ms
Approx. 600 cm	15 ms



Center speaker delay time button



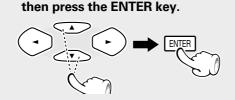


Surround speaker delay time button

Operations

Speaker level setting





O Press up/down (▲/▼) keys or cursor left/right (◄/►) keys to select "TEST" on the Speaker Setup menu,

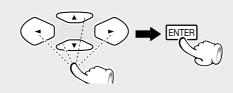
When TEST (test tone) has been selected, test noise is put out sequentially from the speakers, starting with the left front speaker. Check that the test noise can be heard from all speakers and that the same volume is heard from all speakers.

If the volume is different for some speakers, return to the previous step and adjust the level for that speaker.

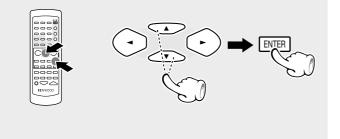
Level settings

Press the cursor up/down (▲/▼) keys or cursor left/right (◄/►) keys to select the desired speaker's Level button, then press the ENTER key.



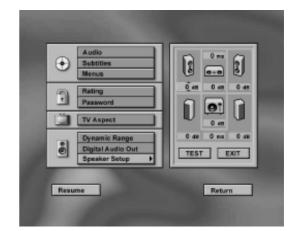


Series Press the cursor up/down (▲/▼) keys to select the level, then press the ENTER key.





TEST button



Adjust in the same way so that the sound volume of all speakers, except for the subwoofer (Super woofer) sounds the same. As adjustment of the subwoofer with the test tone is difficult, please adjust it while listening to normal music.

To end the speaker setup, press the EXIT button and press the ENTER key of the remote control unit.

Sleep timer (SLEEP) :

The unit is turned OFF automatically after the specified period has elapsed.

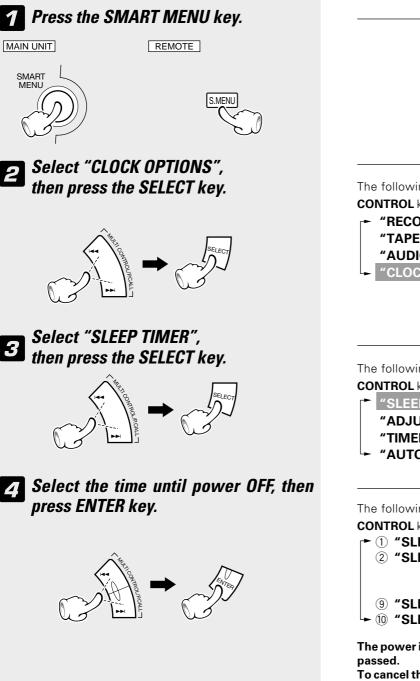
Timer playback:

At the set ON time, the power is switched on and playback of the source set in advance starts. The power is switched off at the set OFF time.

Timer recording:

At the set ON time, the power is switched on and recording of the source (tuner or external input) set in advance starts. The power is switched off at the set OFF time.

Sleep timer



XD-series (FN/T.M.X)

The following items can be selected by pressing the MULTI CONTROL keys.



The following items can be selected by pressing the MULTI CONTROL keys.

┍►	"SLEEP TIMER"
	"ADJUST TIME"
	"TIMER PLAY"
-	"AUTO POWER SAVE"

The following items can be selected by pressing the MULTI CONTROL keys.

▶ ①	"SLEEP	OFF"	: sleep timer off	
2	"SLEEP	10″	: 10 minutes	
				Slow blinks
9	"SLEEP	80″	: 80 minutes	
┗ 10	"SLEEP	90″	: 90 minutes	TIMER
			m 1	

MER

Rapid blinks

√¶MER

The power is switched off when the set time has

To cancel the SLEEP TIMER select "SLEEP OFF".

Timer Play

O Switching the power ON.



O Press the SMART MENU key.



Select "CLOCK OPTIONS", then press the SELECT key.



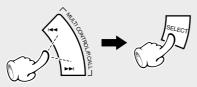
O Select "TIMER PLAY", then press the SELECT key.



G Select desired timer mode, then press the SELECT key.



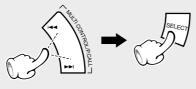
G Select ON time.



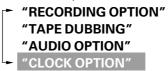
Select OFF mode.



O Select the input source.



The following items can be selected by pressing the **MULTI CONTROL** keys.



The following items can be selected by pressing the **MULTI CONTROL** keys.





The following items can be selected by pressing the **MULTI CONTROL** keys.

- ▶ ① "EVERY DAY"
 ② "ONE TIME"
 ▶ ③ "OFF"
- executing a timer program once every day
 executing it only once
- : cancelled
- Enter the figure of hour, then press the **SELECT** key and enter the figure of minute.
- Press the **SELECT** key.
- Enter the figure of hour, then press the **SELECT** key and enter the figure of minute.
- Press the SELECT key.

The following items can be selected by pressing the **MULTI CONTROL** keys.

↑ (1) "TUNER" (Tuner)
 ② "CD" (Tuner)
 ③ "TAPE"
 − ④ "MD/DVD"

Continued on next page...

• Select the preset station (only whentuner is selected above), then press the SELECT key



As the timer setting contents will be displayed , press the ENTER key.



"SET CLOCK" will be displayed when the present time has not been set. In that case, please set the present time. (See page 19)

Displayed "PRESS ENTER TO SAVE" Switching the power OFF



• Load a recordable tape in TAPE B.

+ 39



Timer recording

ON/STANDBY

POWER

O Switching the power ON.



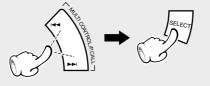
Select "RECORDING OPTIONS ", then press the SELECT key.



Select "TIMER RECORDING ", then press the SELECT key.



G Select desired timer mode, then press the SELECT key.



The following items can be selected by pressing the **MULTI CONTROL** keys.

▶	"RECORDING OPTION
	"TAPE DUBBING"
	"AUDIO OPTION"
┢╸	"CLOCK OPTION"

The following items can be selected by pressing the **MULTI CONTROL** keys or cursor keys on the remote.



The following items can be selected by pressing the **MULTI CONTROL** keys.

① "EVERY DAY"

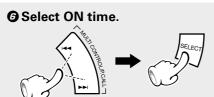
- : executing a timer program once every day
 : executing it only once
- 2 "ONE TIME"
 3 "OFF"
- : cancelled

Continued on next page...

60

Timer function **61**

XD-series (EN/T,M,X)



Select OFF mode.



O Select the input source.



O Select the preset station (only when tuner is selected above), then press the SELECT key.



\textcircled{O} As the timer setting contents will be displayed , press the ENTER key.



The following items can be selected by pressing the **MULTI CONTROL** keys.

• Enter the figure of hour, then press the **SELECT** key and enter the

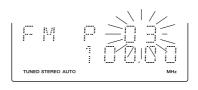
• Enter the figure of hour, then press the **SELECT** key and enter the

└① "TUNER" ② "VIDEO/AUX"

figure of minute. Press the **SELECT** key.

figure of minute.

Press the **SELECT** key.



Displayed "PRESS ENTER TO SAVE" Switching the power OFF Lit in green



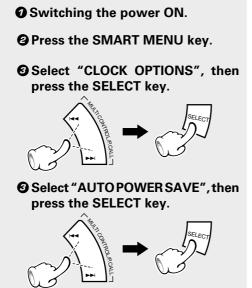


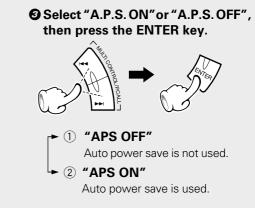
The mute function operates during timer recording. Turn the VOLUME knob a little if you want to listen to the sound.

AUTO POWER SAVE function

When the power is ON and neither recording nor playback is executed for 30 minutes or more, the power is switched off automatically by this function.

Using the MULTI CONTROL jog dial.





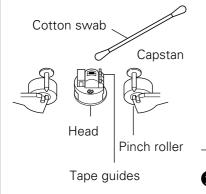
 When the TUNER or VIDEO/AUX input is selected, this function operates only when the volume is set to zero.

DVD menu language code list

Cord No.	Language	Cord No.	Language	Cord No.	Language
6565	Afar	7282	Croatian	8076	Polish
6566	Abkhazian	7285	Hungarian	8083	Pashto; Pushto
6570	Afrikaans	7289	Armenian	8084	Portuguese
6577	Amharic	7365	Interlingua	8185	Quechua
6582	Arabic	7378	Indonesian	8277	Rhaeto-Romance
6583	Assamese	7383	Icelandic	8279	Romanian
6588	Aymara	7384	Italian	8285	Russian
6590	Azerbaijani	7387	Hebrew	8365	Sanskrit
6665	Bashkir	7465	Japanese	8368	Sindhi
6669	Byelorussian	7473	Yiddish	8372	Serbo-Croatian
6671	Bulgarian	7487	Javanese	8373	Singhalese
6672	Bihari	7565	Geogian	8375	Slovak
6678	Bengali; Bangla	7575	Kazakh	8376	Slovenian
6679	Tibetan	7576	Greenlandic	8377	Samoan
6682	Breton	7577	Cambodian	8378	Shona
6765	Catalan	7578	Kannada	8379	Somali
6779	Corsican	7579	Korean	8381	Albanian
6783	Czech	7583	Kashmiri	8382	Serbian
6789	Welsh	7585	Kurdish	8385	Sundanese
6865	Danish	7589	Kirghiz	8386	Swedish
6869	German	7665	Latin	8387	Swahili
6890	Bhutani	7678	Lingala	8465	Tamil
6976	Greek	7679	Laothian	8469	Telugu
6978	English	7684	Lithuanian	8471	Tajik
6979	Esperanto	7686	Latvian; Lettish	8472	Thai
6983	Spanish	7771	Malagasy	8473	Tigrinya
6984	Estonian	7773	Maori	8475	Turkmen
6985	Basque	7775	Macedonian	8476	Tagalog
7065	Persian	7776	Malayalam	8479	Tonga
7073	Finnish	7778	Mongolian	8482	Turkish
7074	Fiji	7779	Moldavian	8484	Tatar
7079	Faroese	7782	Marathi	8487	Twi
7082	French	7783	Malay	8575	Ukrainian
7089	Frisian	7784	Maltese	8582	Urdu
7165	Irish	7789	Burmese	8590	Uzbek
7168	Scots Gaelic	7865	Nauru	8673	Vietnamese
7176	Galician	7869	Nepali	8679	Volapük
7178	Guarani	7876	Dutch	8779	Wolof
7185	Gujarati	7879	Nowegian	8872	Xhosa
7265	Hausa	7982	Oriya	8979	Yoruda
7273	Hindi	8065	Punjabi	9072	Chinese
		L		9085	Zulu

Maintenance

Cleaning the head section



Cleaning the heads and peripheral components

For maintaining the best condition of the deck and for longer service life, always keep the heads (recording / playback / erase), capstan and pinch roller clean. To clean them, perform the following:

1. Open the cassette holder.

2. Using a cotton swab dipped in alcohol, clean the head (recording / playback / erase), capstan and pinch roller carefully.

Demagnetizing the head

When the recording / playback head is magnetized, the sound quality will deteriorate. In such a case, demagnetize the head using a commercially available demagnetizer (head eraser).

In regard to contact cleaners



There are precisely aligned parts around the heads, including the tape guides. When cleaning, pay special attention so as not to apply shock to them.

Maintenance of the Set

When the front panel, the case, etc. becomes dirty, wipe with a soft, dry cloth. Do not use thinner, alcohol, etc., as these can cause discoloration.

Reference

Caution on condensation

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside.

This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours with the power left ON, and restart the operation after the condensation has dried up.

Be specially cautious against condensation in a following circumstance:

When this unit is carried from a place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

Note related to transportation and movement Before transporting or moving this unit, carry out the following operations.

∂ Remove the discs and tapes from the unit. **∂** Press the ►/II key of the DVD/CD.



③ Wait a few seconds and turn the unit OFF.

Be specially careful not to use contact cleaners containing oil, for they may deform the plastic component.

Do not use contact cleaners because it could cause a malfunction.

Memory backup function			
Stored contents which are cleared immediately when power plug is unplugged from power outlet.	Clock display		
Stored contents which are cleared in at least a week af- ter power plug is unplugged from power outlet.	Amplifier section Last input selection Volume control value Surround setting Tuner section Receiving band Frequency Preset stations Tuning mode setting Program timer setting contents Cassette deck unit Transport direction Reverse mode		

WARNING NOTICE:

IN MOST CASES IT IS AN INFRINGEMENT OF COPY-RIGHT TO MAKE COPIES OF TAPES OR DISCS WITH-OUT THE PERMISSION OF THE COPYRIGHT OWNERS. ANYONE WISHING TO COPY COMMERCIALLY AVAIL-ABLE TAPES OR DISC SHOULD CONTACT THE ME-CHANICAL COPYRIGHT PROTECTION SOCIETY LIM-ITED OR THE PERFORMING RIGHTS SOCIETY LIMITED. What seems to be a malfunction is not always so. Before calling for service, check the following table according to the symptom of your trouble.

Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition. Set the POWE key to ON. Then press the VIDEO/ AUX key while holding the TUNING MODE key down.

• Please note that resetting the microcomputer clears the contents stored in and returns and to condition when it left the factory.

Receiver, speakers

Symptom	Cause	Remedy	
Sound is not produced.	 The speaker cords are disconnected. The MUTE switch of remote control unit is switched ON. The headphone plug is inserted into the jack. 	 Connect properly referring to "System connection". Switch MUTE OFF. Unplug the headphone plug. 	+ 11 + 17 + 17
Sound is not produced from the left or right speakers.	• The speaker cords are disconnected.	 Connect properly referring to "System con- nection". 	→ [1]
Demonstration starts suddenly.	• The DEMO is set to on.	• This is not malfunction. Press the DISPLAY/ DEMO key to cancel the demonstration.	→ 3
The clock display is out of order.	 There was a power failure. The power cord was unplugged from the outlet. 	 Adjust the present time again. Adjust the present time again. 	→ 16 → 16
Timer operation is not possible.	 The present time has not been adjusted or there was a power failure. The timer ON time and OFF time have not been set. The timer execution was not set up. 	 Adjust the present time referring to "Clock adjustment". Set the timer ON time and OFF time. Execute the timer program. 	→ 16 → 51 → 51
Radio stations cannot be received.	 The antennas have not been connected. A proper broadcasting band has not been selected. The frequency of the station to be received is not tuned. 	 Connect antennas. Select a band. Tune to the frequency of the desired station. 	 → 10 → 34 → 34
Noise interferes.	 Car ignition noise. Influence of an electric appliance. A TV set is installed near the system. 	 Install the outdoor antenna in an apart position from the road. Switch the suspected electric appliance OFF. Install the TV or the system at an increased distance between them. 	-10
A station has been preset but it can- not be received by pressing the P.CALL key.	 The frequency of the preset station is not tunable. The preset memory has been cleared because the power cord has been unplugged for a long period. 	 Preset stations with tunable frequencies. Preset stations again.	→ <u>35</u> → <u>35</u>
The STANDBY indicator flashes red.	• The speaker connection is abnormal.	• Check the speaker connection.	
No sound from the surround speak- ers (Only XD-DV70/XD-DV60/XD- DV50/XD-A850DV)	• The surround speaker switch on the rear of the unit is set to OFF.	• Set the surround speaker switch on the rear of the unit to ON.	

Remote control unit

Symptom	Cause	Remedy
Remote control operation is not pos- sible.	 Batteries are exhausted. The remote control is too far away from the system, the controlling angle is deviated or there is an obstacle in between. There is no tape or CD set in the component to be played. 	 Replace with new batteries. Operate the unit inside the remote controllable range. Set a tape or CD in the component to be played. 19 - 38

Cassette deck

Symptom	Cause	Remedy
Sound cannot be produced by press- ing the play key or no operation oc- curs even when an operation key is pressed.	 The head is dirty. The tape is wound too tight due to irregular winding. A nonrecorded tape is played. 	 Clean the head referring to "Maintenance". → 54 Try another tape. Play a recorded tape.
No operation occurs even when an operation key is pressed.	 The cassette holder is not closed completely. A tape is not inserted in the unit. The tape is wound too tight due to irregular winding. The tape is fully wound to one of the reels. 	 Close the holder completely. → 38 Insert a tape. → 38 Try another tape. Reverse the tape insertion orientation.
Sound is harsh or high frequencies are not reproduced.	The head is dirty.The tape is stretched or shrunk.	 ● Clean the head referring to "Maintenance". → 54 ● Try another tape.
Noise is noticeable.	 The tape head is magnetized. External noise is induced. A tape recorded with Dolby NR ON is being played on this unit. 	 Demagnetize the head referring to "Maintenance". → 54 Install the system at a distance from other electric appliances and TV. This unit can not play tapes recorded with Dolby NR ON with the correct sound quality
Sound vibrates.	The capstans or pinch rollers are dirty.The tape is wound irregularly.	 Clean the head referring to "Maintenance". → 54 Wind the tape again by fast forwarding, rewinding or playing from an end to the other. → 38
Recording cannot be started by press- ing the record key.	 The recording protect tab of the cassette has been broken. The cassette holder is not closed completely. The tape is fully wound to one of the reels. 	 Use a cassette with an unbroken recording protect tab or block the hole. Close the holder completely. Reverse the tape insertion orientation. → 39



With some tapes, a squeaky noise is produced when the tape is stopped automatically. This is due to the tape protection function, and not a malfunction.
 Do not use longer tape than 90 minutes tapes, for the tape is too thin and gets easily tangled.

Knowledge

DVD / CD player unit

Symptom	Cause	Remedy
Playback does not start when the play (▶/II) key is pressed.	 There is no disc in the player. There are no signals recorded on the side of the disc being played. 	 Load a disc and press the play (►/II) key. → 19 Turn the disc over and properly place it on → 19 the disc tray.
Playback starts but no image/sound is seen/heard.	 The TV is not turned on. The connection cords are not properly connected. 	 ●Turn on the TV. ●Properly reconnect the connection cords. → 12
The picture is disrupted when the image is fast forwarded or fast reversed.	•The picture is slightly disrupted during fast forward and fast reverse operations.	•This is not a malfunction.
No sound is heard.	 The volume control of this set is not adjusted properly. The player is in a special playback mode. 	 Set the sound volume to an appropriate → 17 level. Press the play (►/II) key to resume normal → 19 playback mode.
The picture does not look good or the picture/sound quality is poor.	 A nearby device is generating noise. The disc is dirty. The disc is damaged. There is condensation on the optical lens. 	 Separate this unit as far as possible from the device you think is generating the noise. Refer to the "Disc handling precautions" → 9 section and wipe dirt from the disc. Use a new disc. Refer to the "Caution on condensation" section and evaporate the condensation. → 54
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 to 20 seconds are re- quired for a disc to start playing, although the time differs depending on the disc.
The top and bottom of the screen cannot be seen.	•The video format of the disc being played does not match that of the connected TV monitor.	 Refer to the "Examples of TV screen display of each video format" section ,and use a disc with the appropriate video format for your TV or a TV with the appropriate video format for the disc.
A VCD cannot be played using menus.	• The VCD disc being played is not compat- ible with P.B.C.	 Menu playback is available only with VCD → 24 discs recorded with P.B.C.
The subtitle is not displayed.	 The DVD disc being played does not contain the recording of subtitles. The subtitle mode is set to off. 	 The subtitle cannot be displayed when the DVD disc being played does not contain the recording of subtitles. Press the SUB TITLE key to switch on the →26 subtitle mode.
The voice (or subtitle) language cannot be changed.	• The DVD disc being played does not contain the recording of more than one audio (or subtitle) language.	 The voice (or subtitle) language cannot be → 25 changed when the DVD disc being played does not contain the recording of more than one voice (or subtitle) language.
The viewing angle cannot be changed.	 The DVD disc being played does not contain the recording of more than one angle. You are attempting to switch the angle in a DVD section where more than one angle is not recorded. 	 The viewing angle cannot be changed when → 27 the DVD disc being played does not contain the recording of more than one angle. More than one viewing angle may be re- corded only in limited sections in a disc.
A disc can not be played although the region code is displayed as [ALL].	• Some discs can not be played in all regions even when [ALL] is displayed.	• Play a different disc.

Knowledge

DVD / CD player unit

Symptom	Cause	Remedy
Playback will not start even after a title is selected.	•A viewing restriction (Parental level) has been set for the disc.	● Check the viewing restriction level (Paren- → 32) tal level) setting.
The viewing restriction level (RATING) cannot be changed.	•You have forgotten the viewing restriction (Parental) password.	• Set the initial setup to the factory setup with the following procedure. Pull the plug from the outlet while holding the ENTER key pressed, and then switch the power on again after a few seconds.
The voice or subtitle language selected in the initial setting is not played.	• The DVD disc being played does not contain the recording of the selected voice or sub-title language.	• Use a DVD disc containing the recording of $\rightarrow 30$ the selected voice or subtitle language.
No message appears on the TV screen after a key is pressed.	•The function for displaying message on the TV screen is set to off.	● Set Display function to on. → 20
Menu screen messages are not shown in the desired language.	 The menu language function (MENU) is not set. 	● Set the disc menu language function (MENU) → 25 as required.
Audio is not reproduced in surround sound.	•The surround speakers are set to "Not used" in the speaker mode [SPEAKER SETUP function].	●Set the surround speakers to "Used" in the → 46 speaker mode setting of initial setup SPEAKER SETUP.

Inhibition icon

Symptom	Cause	Remedy
The inhibition icon is displayed and remote control is not possible.	• Playback is restricted intentionally by the software producer.	 ●The operation is inhibited. Please try an- → ŢŢ other operation.

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68 Specifications

Main unit

[Amplifier section]

XD-DV90

[for Europe and U.K.]	
Rated output power during STEREO operation	
(DIN) 1 kHz, 0.7 % T.H.D. at 6 Ω	68 W + 68 W
Effective output power during SURROUND operation	1
Front (1 kHz, 10 % T.H.D. at 6 Ω)	80 W + 80 W
Center (1 kHz, 10 % T.H.D. at 4 Ω)	40 W
Surround (1 kHz, 10 % T.H.D. at 4 Ω)	40 W + 40 W
[for other countries]	
Rated output power during STEREO operation	
1 kHz, 0.7 % T.H.D. at 6 Ω	70 W + 70 W
Effective output power during SURROUND operation	1
Front (1 kHz, 10 % T.H.D. at 6 Ω)	80 W + 80 W
Center (1 kHz, 10 % T.H.D. at 4 Ω)	40 W
Surround (1 kHz, 10 % T.H.D. at 4 Ω)	40 W + 40 W
Input sensitivity / impedance	
VIDEO/MD 3	
MIC (only some areas) 4	.0 mV / 4.7 kΩ
Output level / impedance	
VIDEO/MD 35	50 mV / 6.7 kΩ
SUPER WOOFER PREOUT	. 2.0 V / 2.2 k Ω

XD-DV80

[for Europe and U.K.]	
Rated output power during STEREO operation	
(DIN) 1 kHz, 0.7 % T.H.D. at 6 Ω	68 W + 68 W
Effective output power during SURROUND opera	tion
Front (1 kHz, 10 % T.H.D. at 6 Ω)	80 W + 80 W
Center (1 kHz, 10 % T.H.D. at 4 Ω)	40 W
Surround (1 kHz, 10 % T.H.D. at 4 Ω)	40 W + 40 W
[for other countries]	
Rated output power during STEREO operation	
1 kHz, 0.7 % T.H.D. at 6 Ω	70 W + 70 W
Effective output power during SURROUND opera	tion
Front (1 kHz, 10 % T.H.D. at 6 Ω)	80 W + 80 W
Center (1 kHz, 10 % T.H.D. at 4 Ω)	40 W
Surround (1 kHz, 10 % T.H.D. at 4 Ω)	40 W + 40 W
Input sensitivity / impedance	
VIDEO/MD	350 mV / 35 kΩ
MIC (only some areas)	4.0 mV / 4.7 kΩ
Output level / impedance	
VIDEO/MD	350 mV / 6.7 kΩ
SUPER WOOFER PREOUT	2.0 V / 2.2 k Ω

XD-DV70

[for Europe and U.K.]	
Rated output power during STEREO operation	
(DIN) 1 kHz, 0.7 % T.H.D. at 6 Ω	68 W + 68 W
Effective output power during SURROUND opera	ation
Front (1 kHz, 10 % T.H.D. at 6 Ω)	80 W + 80 W
Center (1 kHz, 10 % T.H.D. at 4 Ω)	40 W
Surround (1 kHz, 10 % T.H.D. at 4 Ω)	40 W + 40 W
[for other countries]	
Rated output power during STEREO operation	
1 kHz, 0.7 % T.H.D. at 6 Ω	70 W + 70 W
Effective output power during SURROUND opera	ation
Front (1 kHz, 10 % T.H.D. at 6 Ω)	80 W + 80 W
Center (1 kHz, 10 % T.H.D. at 4 Ω)	40 W
Surround (1 kHz, 10 % T.H.D. at 4 Ω)	40 W + 40 W
Input sensitivity / impedance	
VIDEO/MD	350 mV / 35 k Ω
MIC (only some areas)	4.0 mV / 4.7 k Ω
Output level / impedance	
VIDEO/MD	350 mV / 6.7 kΩ
SUPER WOOFER PREOUT	2.0 V / 2.2 k Ω

XD-DV60

[for Europe and U.K.]	
Rated output power during STEREO operation	
(DIN) 1 kHz, 0.7 % T.H.D. at 6 Ω	68 W + 68 W
Effective output power during SURROUND opera	tion
Front (1 kHz, 10 % T.H.D. at 6 Ω)	
Center (1 kHz, 10 % T.H.D. at 4 Ω)	40 W
Surround (1 kHz, 10 % T.H.D. at 4 Ω)	40 W + 40 W
[for other countries]	
Rated output power during STEREO operation	
1 kHz, 0.7 % T.H.D. at 6 Ω	
Effective output power during SURROUND opera	tion
Front (1 kHz, 10 % T.H.D. at 6 Ω)	
Center (1 kHz, 10 % T.H.D. at 4 Ω)	40 W
Surround (1 kHz, 10 % T.H.D. at 4 Ω)	40 W + 40 W
Input sensitivity / impedance	
VIDEO/MD	350 mV / 35 kΩ
MIC (only some areas)	4.0 mV / 4.7 k Ω
Output level / impedance	
VIDEO/MD	350 mV / 6.7 kΩ
SUPER WOOFER PREOUT	2.0 V / 2.2 k Ω

XD-DV50

[for Europe and U.K.]	
Rated output power during STEREO operation	
(DIN) 1 kHz, 0.7 % T.H.D. at 6 Ω	68 W + 68 W
Effective output power during SURROUND operation	
Front (1 kHz, 10 % T.H.D. at 6 Ω)	80 W + 80 W
Center (1 kHz, 10 % T.H.D. at 4 Ω)	40 W
Surround (1 kHz, 10 % T.H.D. at 4 Ω)	40 W + 40 W
[for other countries]	
Rated output power during STEREO operation	
1 kHz, 0.7 % T.H.D. at 6 Ω	70 W + 70 W
Effective output power during SURROUND operation	
Front (1 kHz, 10 % T.H.D. at 6 Ω)	80 W + 80 W
Center (1 kHz, 10 % T.H.D. at 4 Ω)	40 W
Surround (1 kHz, 10 % T.H.D. at 4 Ω)	40 W + 40 W
Input sensitivity / impedance	
VIDEO/MD 35	
MIC (only some areas) 4.0	0 mV / 4.7 kΩ
Output level / impedance	
VIDEO/MD 350) mV / 6.7 kΩ
SUPER WOOFER PREOUT	2.0 V / 2.2 kΩ

[Tuner section]

FM tuner section	
Tuning frequency range	87.5 MHz ~ 108 MHz
AM (MW) Tuner section	
Tuning frequency range	531 kHz ~ 1,602 kHz
LW Tuner section (for U.K. only)	
Tuning frequency range	153 kHz ~ 279 kHz

[Cassette deck section]

Track		4-track, 2-channel stereo
Recording sy	stem	AC bias system
• •		(Frequency: 105 kHz)
Heads		
TAPE A	Playback head	
TAPE B	Playback / recording head	
	Erasing head	

Fast winding time	Annrox	100 seconds	(C-60 tape)
i ast winding time	Appiox.	Too Seconds	(0-00 tape)

[DVD/CD/VIDEO CD player section]

Laser Wow & Flutter	
Video output format	NTSC/PAL/SECAM
VIDEO OUTPUT	
Composit video output level/imp	edance 1 Vp-p (75 Ω)
S-video output	
Y output level/impedance	1 Vp-p (75 Ω)
C output level/impedance	
NTSC	0.286 Vp-p (75 Ω)
PAL	0.3 Vp-p (75 Ω)
SECAM	0.3 Vp-p (75 Ω)
Compression format	MPEG1/MPEG2
Digital output	
•	(Wave length 660 mm)

[General]	
Power consumption	230 W
Dimensions	W: 270 mm
	H: 326 mm
	D: 360 mm
Weight (net)	10.9 kg

Front Speakers (LS-N90V)

Enclosure Bass-reflex type (Magnetically shielded) Speaker configuration

Woofer	160 mm, cone type
Tweeter	. 50 mm, cone type
Super Tweeter	25 mm, Piezo type
Impedance	6 Ω
Maximum input level	100 W
Dimensions	W: 220 mm
	H: 330 mm
	D: 297 mm
Weight (net)	4.2 kg (1 piece)

Front Speakers (LS-N70V))

Enclosure Bass-reflex type (Magnetically shielded) Speaker configuration

Woofer	130 mm, cone type \times 2
Tweeter	65 mm, cone type $ imes$ 2
Super Tweeter	25 mm, Piezo type
Impedance	6Ω
Maximum input level	100 W
Dimensions	W: 235 mm
	H: 410 mm
	D: 292 mm
Weight (net)	6.6 kg (1 piece)

Front Speakers (LS-N50V))

Enclosure Bass-reflex type (Magnetically shielded) Speaker configuration

Woofer	130 mm, cone type $ imes$ 2
Tweeter	
Super Tweeter	
Impedance	6Ω
Maximum input level	100 W
Dimensions	W: 235 mm
	H: 410 mm
	D: 292 mm
Weight (net)	6.6 kg (1 piece)

Center Speakers (CRS-N90V)

Enclosure	. Bass-reflex type (Magnetically shielded)
Speaker configuration	100 mm, cone type, Full Range
Impedance	
Maximum input level	
Dimensions	W: 261 mm
	H: 124mm
	D: 193mm
Weight (net)	1.3 kg



1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice. 2. Sufficient performance may not be possible at very low temperatures (0°C or less).

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KENWOOD

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Model_____Serial Number

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