

ATTACHMENT N
User Manual(Draft)

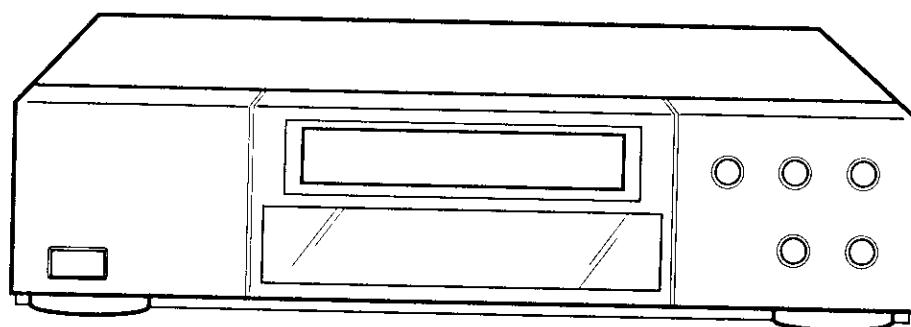
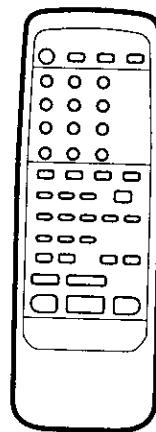
SANSUI®

DVD/CD PLAYER

Owner's Manual

SDVD2000

DRAFT



Before operating the unit, please read this manual thoroughly.

IMPORTANT SAFEGUARDS

1. READ INSTRUCTIONS

All the safety and operating instructions should be read before the unit is operated.

2. RETAIN INSTRUCTIONS

The safety and operating instructions should be retained for future reference.

3. HEED WARNINGS

All warnings on the unit and in the operating instructions should be adhered to.

4. FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

5. CLEANING

Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. ATTACHMENTS

Do not use attachments not recommended by the unit's manufacturer as they may cause hazards.

7. WATER AND MOISTURE

Do not use this unit near water. For example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

8. ACCESSORIES

Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury, and serious damage to the unit. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer.

8A. 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.

PORTABLE CART WARNING
(symbol provided by RETAC)



S3125A

9. VENTILATION

Slots and openings in the cabinet and in the back or bottom are provided for ventilation, to ensure reliable operation of the unit, and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat source. This unit 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. POWER SOURCES

This unit should be operated only from the type of power source indicated on the rating plate. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For units intended to operate from battery power, or other sources, refer to the operating instructions.

11. GROUNDING OR POLARIZATION

This unit is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. If your unit is equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin, this plug will only fit into a grounding-type power outlet. This too, is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

12. POWER-CORD PROTECTION

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

13. LIGHTNING

To protect your unit from 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 unit due to lightning and power line surges.

14. 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.



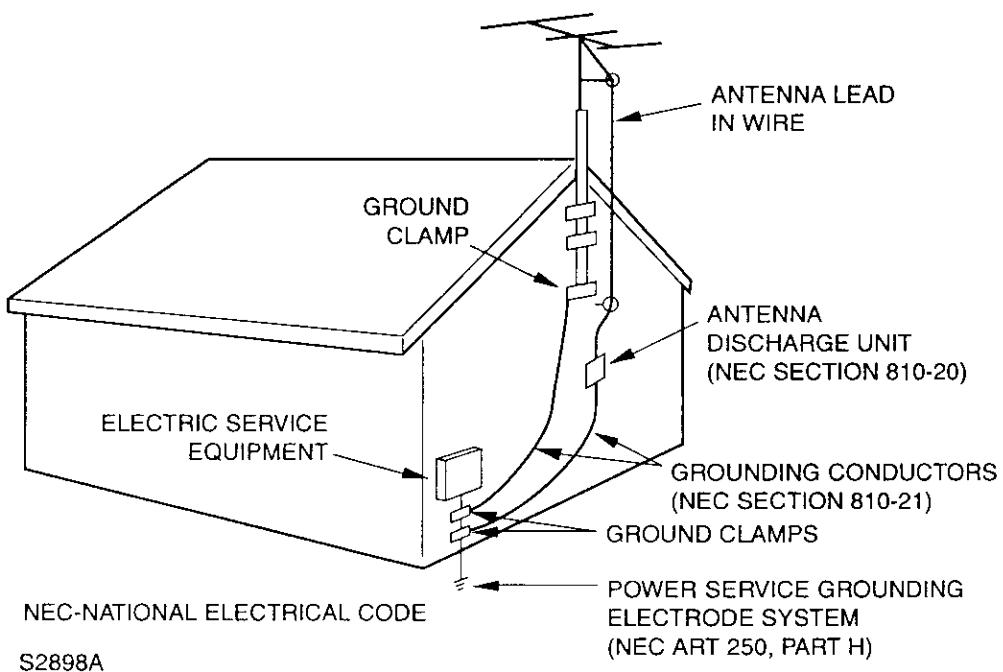
30. DISC

Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

31. NOTE TO CATV SYSTEM INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

EXAMPLE OF ANTENNA GROUNDING AS PER THE
NATIONAL ELECTRICAL CODE





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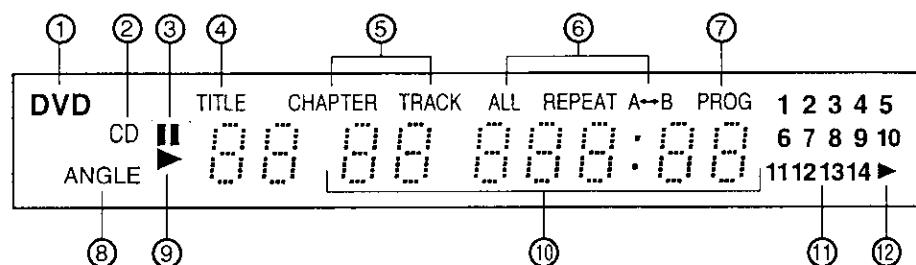
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This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology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



Parts and Functions

Display window



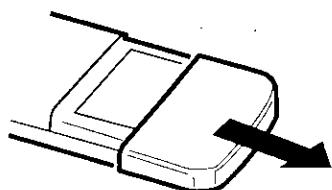
No.	Display	Descriptions
①	DVD	DVD disc is inserted.
②	CD	Audio CD is inserted.
③	II	Still (pause)
④	TITLE	Title number (DVD only)
⑤	CHAPTER	Chapter number (DVD only)
	TRACK	Track number (Audio CD)
⑥	ALL REPEAT	Repeat of all disc
	REPEAT	Repeat of title/chapter/track
	A↔B REPEAT	A-B Repeat
⑦	PROG	Program play (Audio CD)
⑧	ANGLE	Angle playback
⑨	▶	Playback
⑩	OPEN	The disc tray is open.
	CLOSE	The disc tray is being closed.
	NO DISC	No disc is loaded.
	NO PLAY	Playback is impossible.
	12:34	Playing time
	OFF	The unit was turned off.
⑪	12345.....	List of chapter number (DVD)
		List of track number (Audio CD)
⑫	▶	For a disc for containing 15 or more chapters/tracks



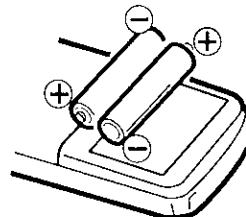
Remote Control

Inserting Batteries

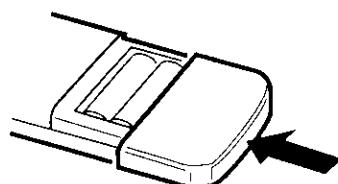
1 Remove the cover by pressing down and sliding.



2 Insert two AAA batteries as shown.

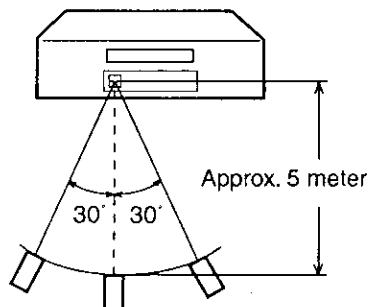


3 Replace the cover.



Operation

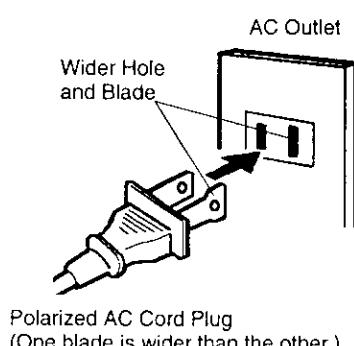
- Aim the remote control at remote sensor and press control buttons to operate.
- Operate the remote control within 30° angle on either side of the remote sensor, up to a distance of Approx. 5 meter.



Note:

- Do not leave the remote control unit exposed to direct sunlight or in hot or humid places.
- The remote control unit uses infrared beams to transmit signals so sunlight or fluorescent light on the remote sensor may shorten operating distance.
- Incorrect use of batteries may cause them to leak or burst. Read the battery warnings and use the batteries properly.
- Do not mix old and new batteries.
- Remove batteries if the remote control will not be operated for an extended period of time.

Power Source



TO USE AC POWER SOURCE

Use the AC polarized line cord provided for operation on AC. Insert the AC cord plug into a standard 120V 60Hz polarized AC outlet.

NOTES:

- Never connect the AC line cord plug to other than the specified voltage (120V 60Hz). Use the attached power cord only.
- If the polarized AC cord does not fit into a non-polarized AC outlet, do not attempt to file or cut the blade. It is the user's responsibility to have an electrician replace the obsolete outlet.
- If you cause a static discharge when touching the unit, and the unit fails to function, simply unplug the unit from the AC outlet, wait a few minutes, and plug it back in. The unit should return to normal operation.

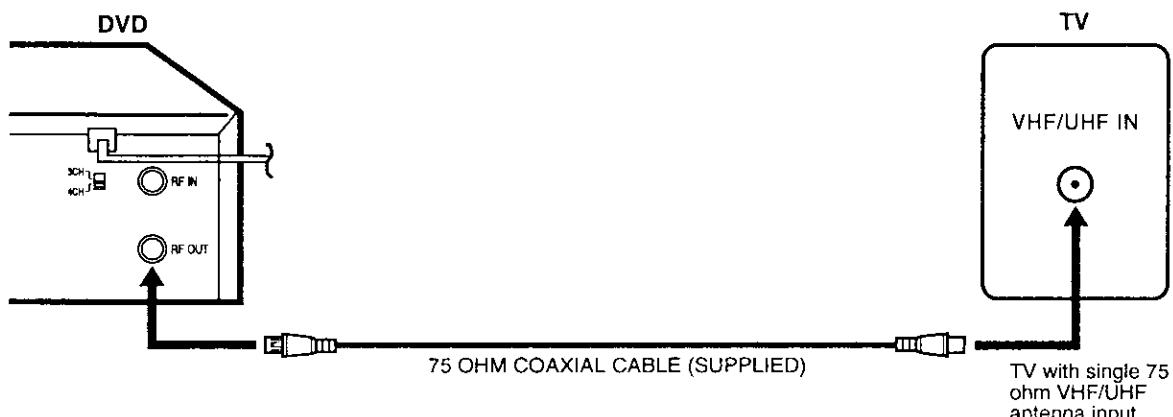
Connections

DVD TO TV CONNECTION

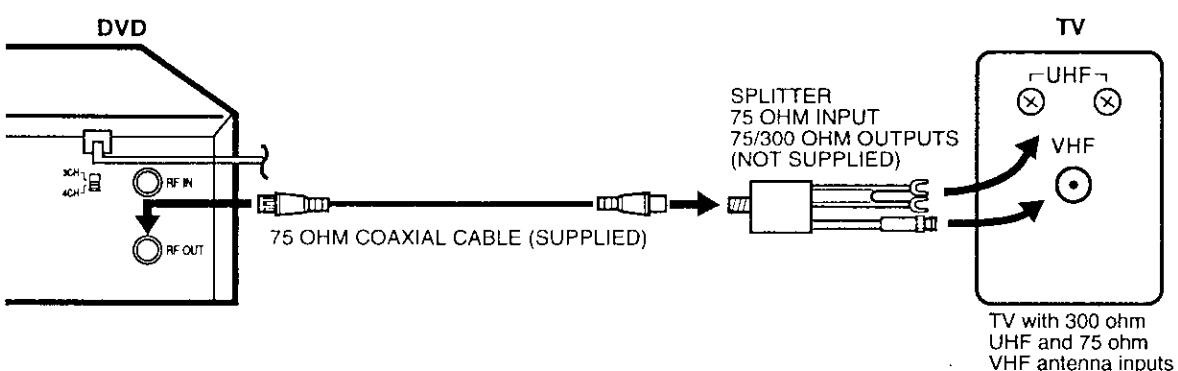
After you have connected the antenna to the DVD (see page 12), you must connect the DVD to the TV. Below are 3 common methods of connecting your DVD to a TV. Find the type of TV you are using and follow the connection diagram.

This DVD has a single 75 ohm output for connection to a TV. If your TV has separate VHF and UHF antenna inputs (numbers 2 and 3 below), use a splitter to connect the DVD to the TV for VHF and UHF reception.

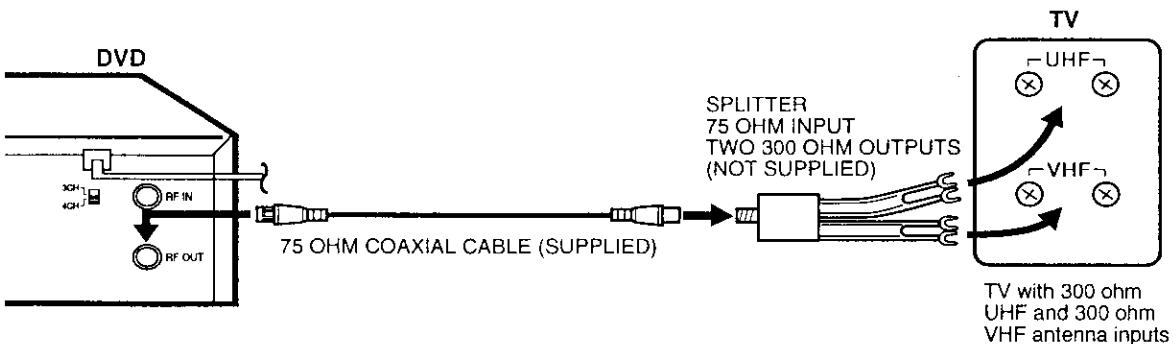
1



2



3





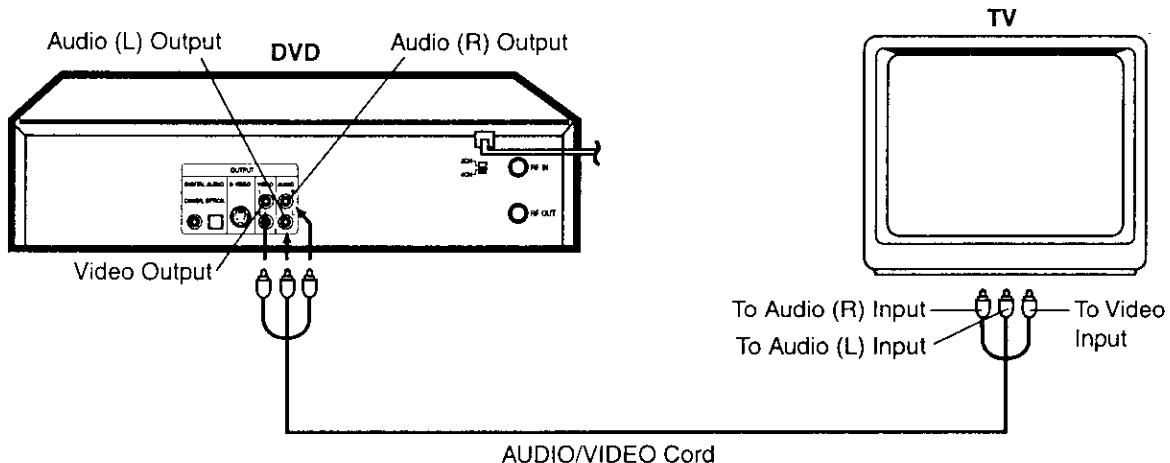
Audio/Video Connections

This section describes how to connect up the unit for playback. You cannot connect the unit to a TV without video input connector.

Before making connections be sure to turn off the power of each unit.

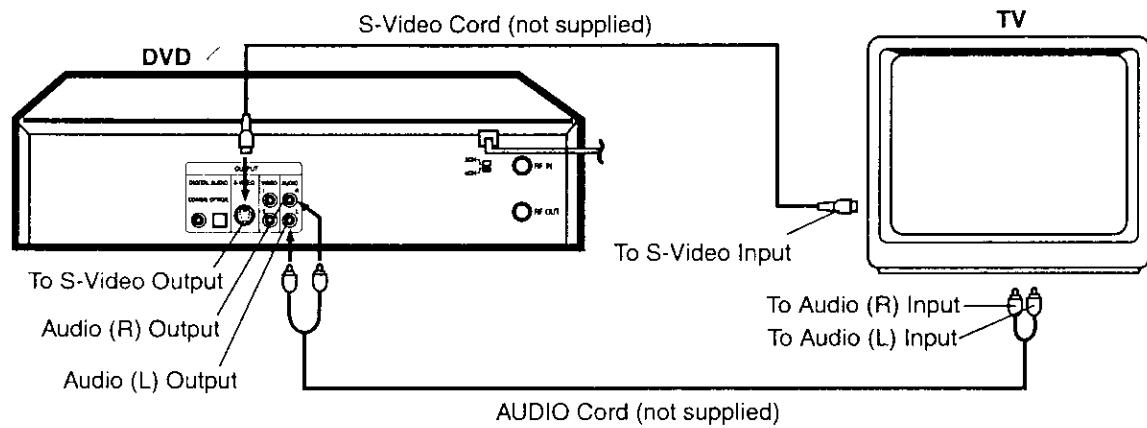
Using TV with Audio/Video Input

You need the AUDIO/VIDEO Cord for connection.



Using TV with S-Video Input

You need the S-Video Cord and AUDIO Cord for connection.





Disc

The unit detects whether the disc loaded is a DVD disc or Audio CD and automatically sets the mode.

Compatible with DVD disc recorded in NTSC system and in PAL system

- To play back disc in either NTSC or PAL system, use a Multi-system TV.
- Do not use PAL TV to play back NTSC disc.
- Do not use NTSC TV to play back PAL disc.

Disc Notes

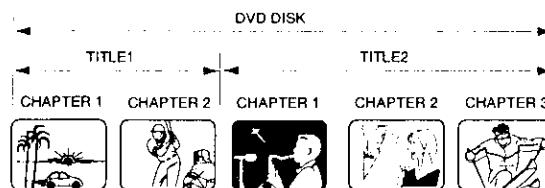
Do not play DVD-ROM, CD-ROM, CD-R, CDV, CD-G and Photo CD to prevent accidental erasure of prerecorded material.

This unit applies to DVD disc with Local number 1 only. Other local number discs cannot be played with this unit.

Title/Chapter/Track

Title

When two or more movies are recorded on a disc, the disc is divided into two or more sections. Each of section is "TITLE".



Chapter

One of the title can be subdivided into many sections. Each of section is "CHAPTER".

Track

An Audio CD has more than two songs. These songs are assigned to the tracks.



Removing Disc from Case

Be sure to hold the edge of disc. Do not touch the surface of the disc.

Pick up the disc gently from the case.



- Do not scratch the disc.
- Do not make dirty on the surface of the disc.
- Do not stick a label or adhesive tape on the disc.
- Do not drop or bend the disc.

Storing Disc

Insert the disc in the case to avoid risk of scratches, dirt or damage.

- Do not leave disc exposed to direct sunlight or in hot or humid places.



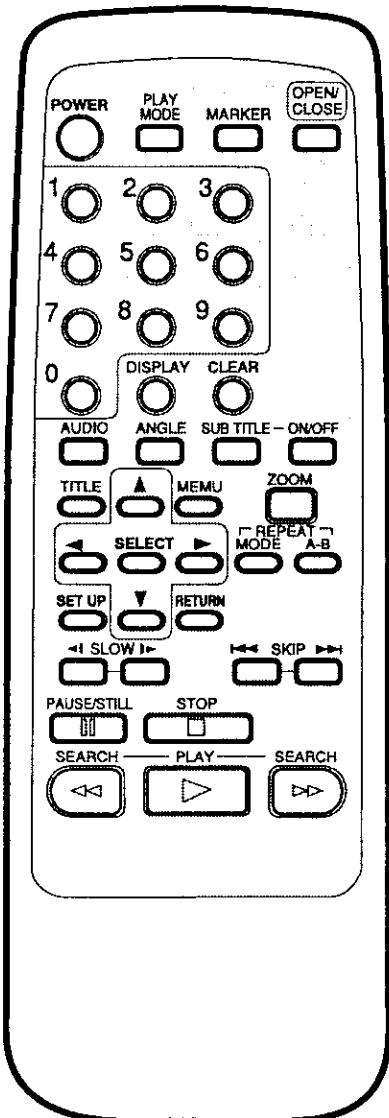
Cleaning Disc

Wipe the disc with clean, dry cloth from center to out.

- Do not wipe the disc round.
- Do not use liquid or aerosol cleaners.



The setup language can be selected.

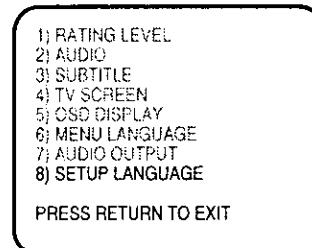


Preparation

- Insert the AC cord plug into a standard 120V 60Hz polarized AC outlet.
Note: When connecting to the other equipment, unplug the unit from the AC outlet.
- Make sure that your DVD is connected properly to the TV.
- Press **POWER** on the unit or on the remote control to turn on the DVD.
- Turn on the TV and set TV's TV/VIDEO selector to VIDEO.
(If the DVD is connected with RF cable to the TV, set the 3 or 4 channel selector to CH 3 or 4, and the TV channel also must be set to CH 3 or 4 to be corresponded with DVD.)
- When using an amplifier, switch on the amplifier.

1 Press **SETUP** in the stop mode.

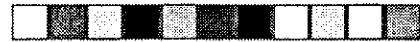
2 Press or to select SETUP LANGUAGE, then press **SELECT**.



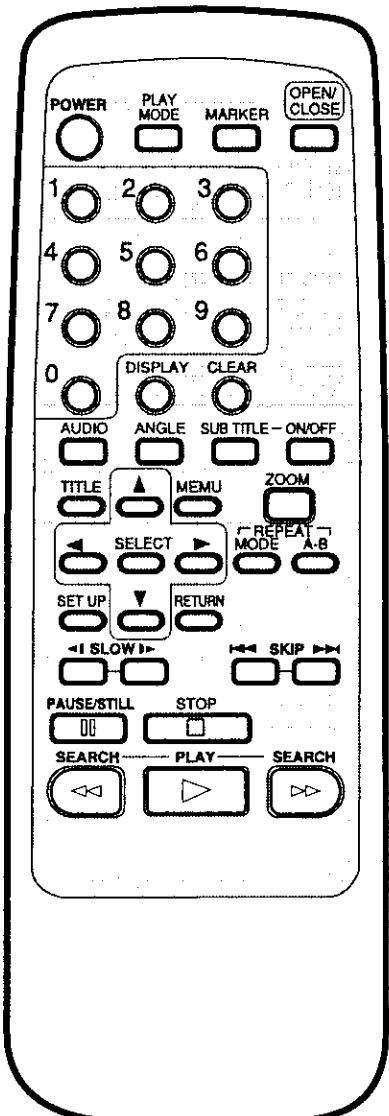
3 Press or to select desired language (e.g. ENGLISH), then press **SELECT**.



4 To make SETUP screen disappear, press **RETURN** while the SETUP screen is being appeared.



Special Playback



Fast Forward Playback

SEARCH
Press and hold during normal playback.

- Normal playback is resumed when the button is released.

Review Playback

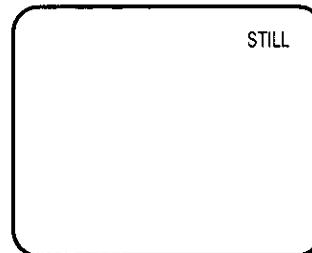
SEARCH
Press and hold during normal playback.

- Normal playback is resumed when the button is released.

At first the speed of Fast Forward or Review Playback is low, and change to high after 5 seconds.

Still Playback

Press PAUSE/STILL during normal playback to pause playback.



To resume normal playback press PLAY.

Frame Advance

Press PAUSE/STILL during still playback.
One frame is advanced when you press PAUSE/STILL once.

To resume normal playback press PLAY.

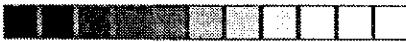
Slow-motion Playback

Press SLOW(Reverse or SLOW() Forward during normal playback or still playback.

- To resume normal playback, press PLAY.
- To resume the still playback, press PAUSE/STILL.

Locating a chapter

Press SKIP() Forward or SKIP() Reverse during playback to locate a chapter that you want to watch.
Each time you press the button, a chapter is skipped.

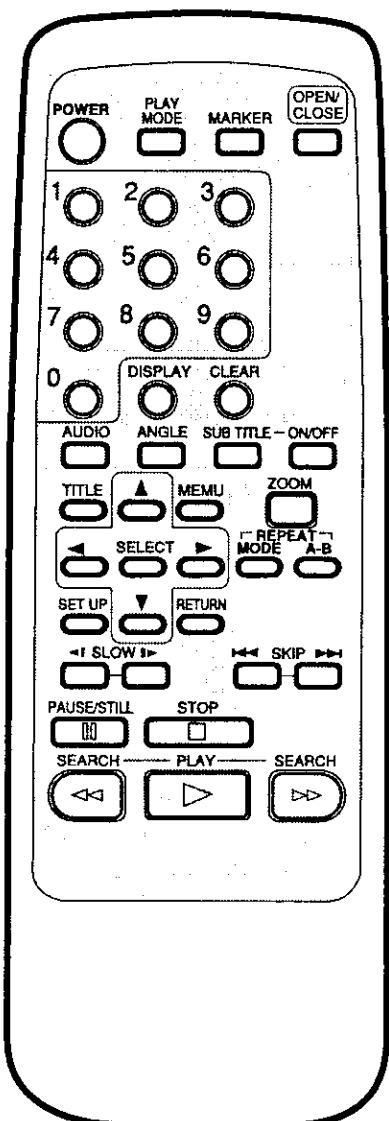


Repeat Playback

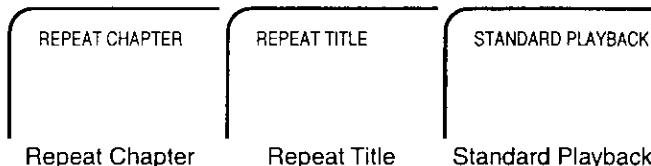
Title, Chapter, Track Playback

Press **REPEAT MODE** during playback.

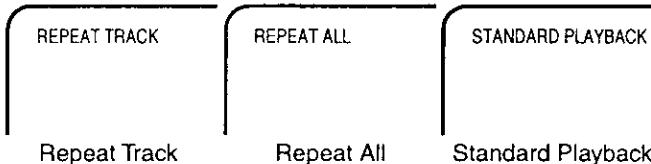
Each time you press the button, the on-screen display changes as below.



DVD



Audio CD



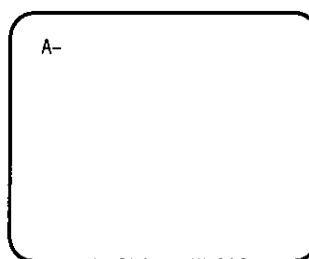
To resume normal playback

Press **REPEAT MODE** several times until "STANDARD PLAYBACK" appears.

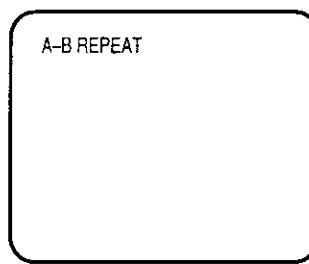
A-B Repeat Playback

Use the title, chapter and time recorded on disc to locate the desired point to play back.

1 Press **REPEAT A-B** during playback.
The start point is selected.



2 Press **REPEAT A-B** again.
The end point is selected.
Playback starts at the point where you selected. Playback stops at the end point and returns to Point A automatically. Then start again.



Note:

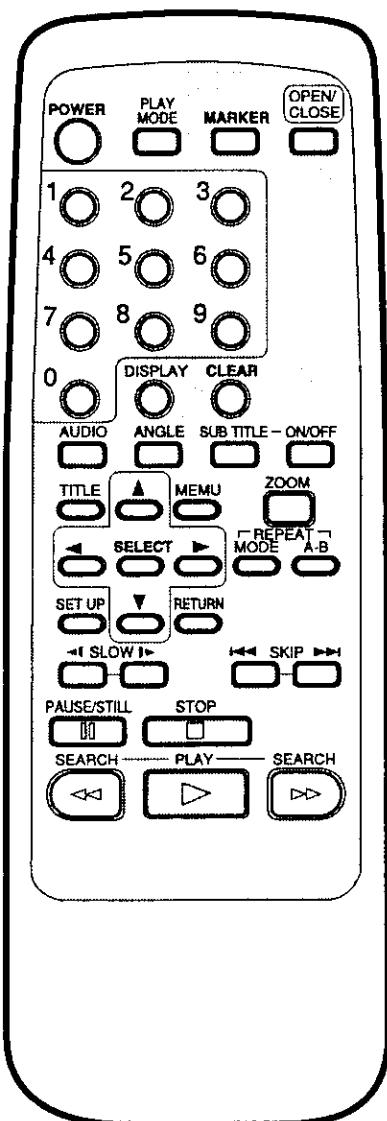
- Some discs may not work the repeat operation.
- A-B repeat can function within only a chapter.
- In A-B repeat mode subtitle near point A or B may not appear.

To resume normal playback press **REPEAT A-B** again.
"STANDARD PLAYBACK" appears on the screen.



Marking Desired Scenes

The unit stores the points where you want to watch again. You can resume playback from the scene.

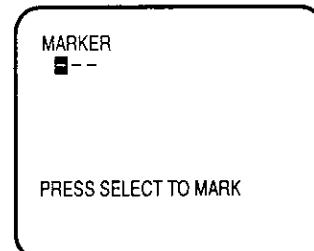


Note:

- Some discs may not work this operation.
- The marking is canceled when you open the disc tray or turn the power off.

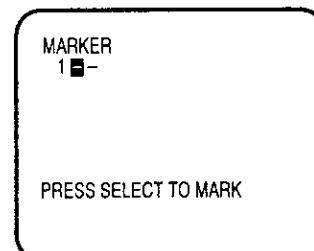
Marking the Scenes

- 1 Press **MARKER** during playback.



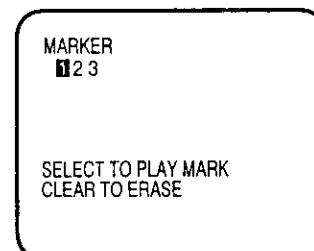
- 2 Press **SELECT** during playback at the desired scene.

- Up to 3 scenes can be selected.

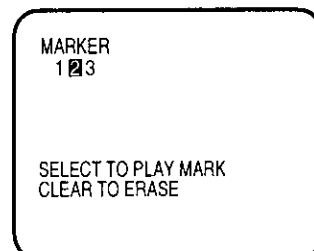


Returning to the Scenes

- 1 Press **MARKER** during playback.



- 2 Press \leftarrow or \rightarrow to select the INDEX number.



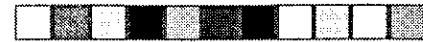
- 3 Press **SELECT**.
Playback starts from the marked scene.

To Cancel the Mark

- 1 Press **MARKER**.

- 2 Press \leftarrow or \rightarrow to select the index number.

- 3 Press **CLEAR**.

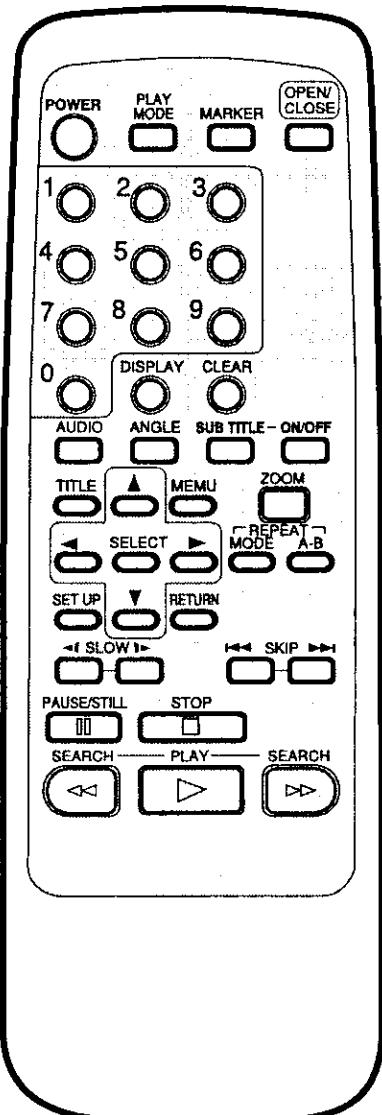


Subtitle

Turning the Subtitle On and Off

When playing back a disc recorded subtitles, you can turn the subtitle on and off.

Press **SUB TITLE** during playback. Then press **ON/OFF** to select ON or OFF Subtitles appear on the screen.



SUBTITLE: 1 ON

Changing the subtitle language

You can select language when playing back the disc recorded multi-lingual subtitles.

1 Press **SUB TITLE** during playback.

SUBTITLE: 1 ON

2 Press or until the desired language is selected.

SUBTITLE: 2 ON

3 Press **SUB TITLE** to make display disappear.

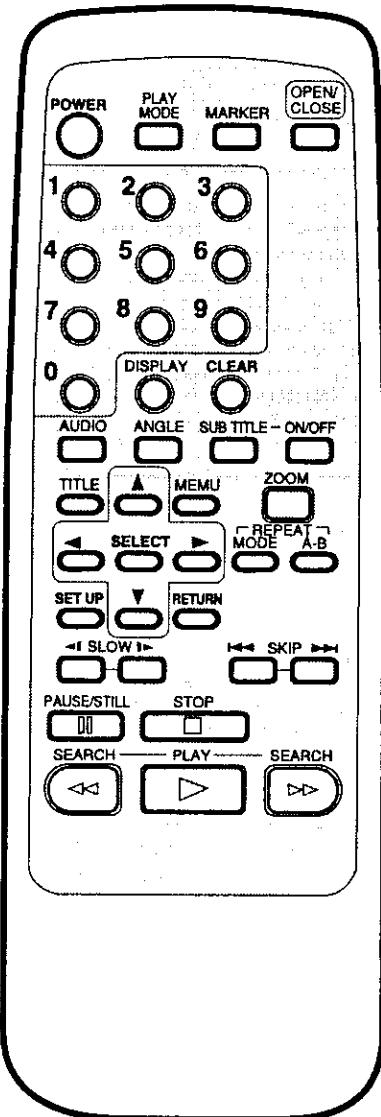
Note:

- If desired language is not selected after pressing the button several times, the language is not recorded on the disc.
- Changing subtitle language is canceled when you open the disc tray or turn the power off.



Rating Level Setting

The specified discs are not suitable for children. Such discs can be limited to play back with the unit.



1 Press **SETUP** in the stop mode.

2 Then press **▲** or **▼** to select **RATING LEVEL**. Press **SELECT**.

1) RATING LEVEL
2) AUDIO
3) SUBTITLE
4) TV SCREEN
5) OSD DISPLAY
6) MENU LANGUAGE
7) AUDIO OUTPUT
8) SETUP LANGUAGE

PRESS RETURN TO EXIT

3 Press **▲** or **▼** to select your desired level, then press **SELECT**.

RATING SELECT LEVEL
1 NORMAL
2
3
VIEWABLE 4
PROHIBITED 5
6
7
8 ADULT

PRESS RETURN TO EXIT

- **Level 1 NORMAL:** DVD software for adults cannot be played back.
- **Level 8 ADULT:** All DVD software can be played back.
- Select from the level 1 to the level 8. The limitation will be severer as the level number is upper.

4 Press **number buttons (0-9)** to input a 4-digit password, then press **SELECT**.

RATING
LEVEL IS SET AT 4.
TO LOCK THE LEVEL
ENTER THE 4-DIGIT
PASSWORD.

1234 UNLOCK
PRESS RETURN TO EXIT

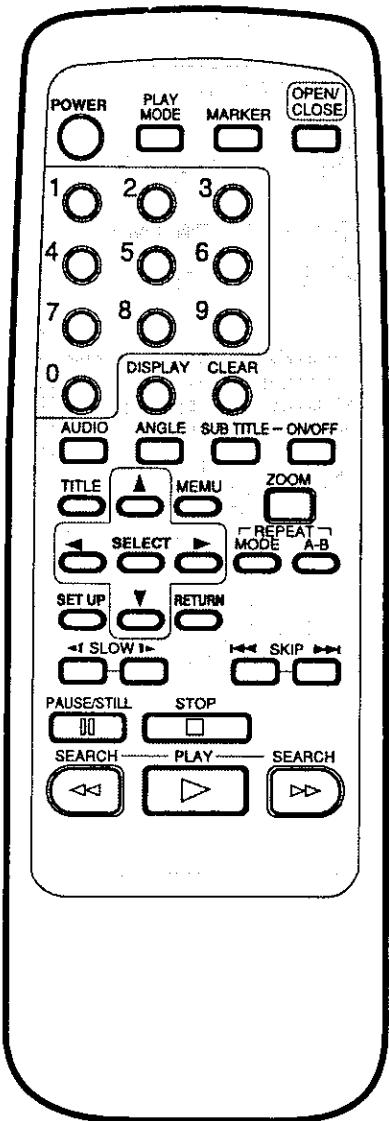
5 Press **RETURN**.

Setting is finished and the **SETUP** screen appears.
The rating is locked and the setting cannot be changed unless you enter the correct password.

Note:

- If the each setup(P.29~36) has been completed, the unit can always be worked under the same conditions (especially with DVD discs).
The each setup will be retained in the memory if you turn the power off.
- Depending on the discs, the unit cannot limit playback.

The same audio soundtrack language can always be selected even if you replace the disc or turn the power off.



1 Press **SETUP** in the stop mode.

2 Press or to select **AUDIO**, then press **SELECT**.

- 1) RATING LEVEL
- 2) AUDIO
- 3) SUBTITLE
- 4) TV SCREEN
- 5) OSD DISPLAY
- 6) MENU LANGUAGE
- 7) AUDIO OUTPUT
- 8) SETUP LANGUAGE

PRESS RETURN TO EXIT

3 Press or to select your desired language, then press **SELECT**.

- AUDIO LANGUAGE PREFERENCE
- ENGLISH
- ORIGINAL
- OTHER -----

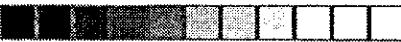
PRESS RETURN TO EXIT

- **ORIGINAL:** The unit will select the first priority language of each disc.
- **OTHER:** If you want to select the another language, enter the language code.

4 To make **SETUP** screen disappear, press **RETURN** while the **SETUP** screen is being appeared.

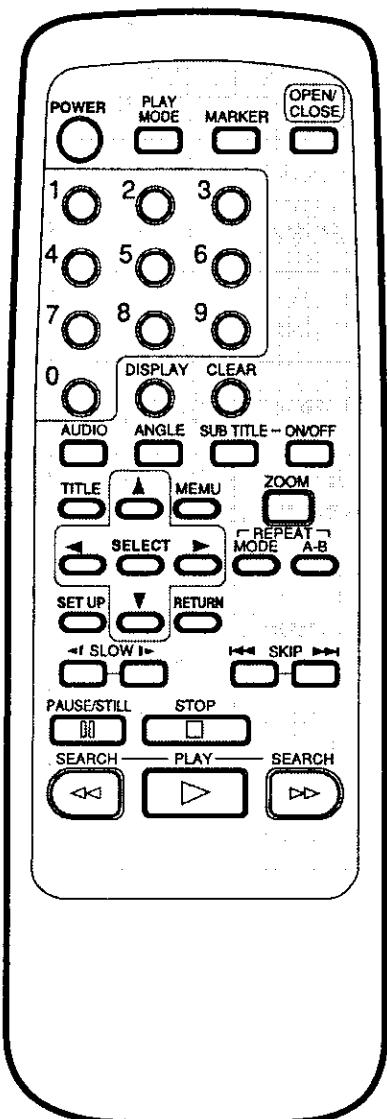
Note:

If the selected language is not recorded on the disc, the original language is heard.



Setting the aspect ratio of TV screen

You can select the aspect ratio for your TV.



1 Press **SETUP** in the stop mode.

2 Press or to select **TV SCREEN**, then press **SELECT**.

- 1) RATING LEVEL
- 2) AUDIO
- 3) SUBTITLE
- 4) TV SCREEN
- 5) OSD DISPLAY
- 6) MENU LANGUAGE
- 7) AUDIO OUTPUT
- 8) SETUP LANGUAGE

PRESS RETURN TO EXIT

3 Press or to select your desired screen type, then press **SELECT**.

TV SCREEN
SELECT TV TYPE AND
PICTURE TYPE

- 4:3
- 4:3 PANSCAN
- 16:9 WIDE

PRESS RETURN TO EXIT

4:3

Select this mode connecting to the conventional TV and play back the wide picture DVD disc.

It displays the wide picture with black bands at top and bottom of screen.

4:3 PANSCAN

It display the wide picture on the whole screen with a left and right edges automatically cut off.

16:9 WIDE

Select this mode when connecting to wide-screen TV. Wide picture is displayed in the full size.

4 To make SETUP screen disappear, press **RETURN** while the SETUP screen is being appeared.

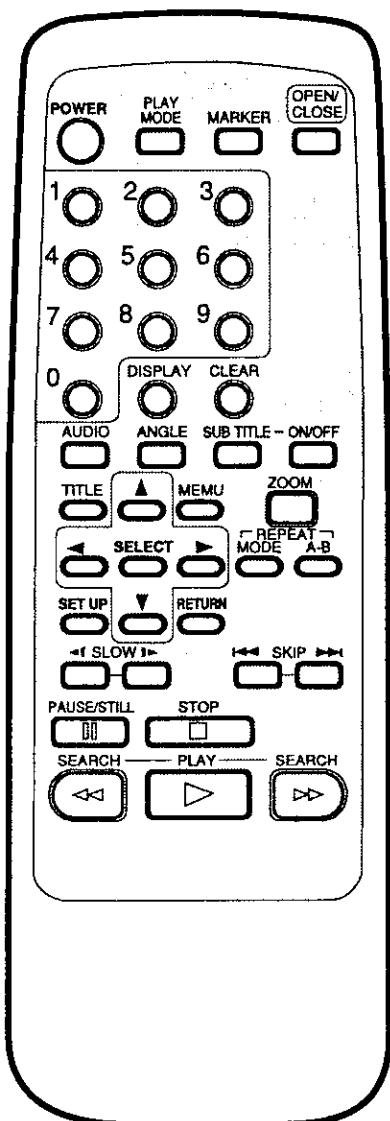
Note:

If the DVD disc are not formatted in the pan & scan style, it displays STANDARD style.



Setting Menu Language

You can select the language of the disc menu messages of DVDs.



1 Press **SETUP** in the stop mode.

2 Press **▲** or **▼** to select **MENU LANGUAGE**, then press **SELECT**.

- 1) RATING LEVEL
- 2) AUDIO
- 3) SUBTITLE
- 4) TV SCREEN
- 5) OSD DISPLAY
- 6) MENU LANGUAGE
- 7) AUDIO OUTPUT
- 8) SETUP LANGUAGE

PRESS RETURN TO EXIT

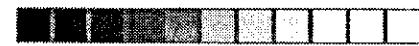
3 Press **▲** or **▼** to select your desired language, then press **SELECT**.

- MENU LANGUAGE PREFERENCE FOR DISC
- ENGLISH
- OTHER -----

PRESS RETURN TO EXIT

OTHER: Other language can be selected.
(See the Language Code List on page 37)

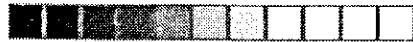
4 To make SETUP screen disappear, press **RETURN** while the SETUP screen is being appeared.



Language Code List

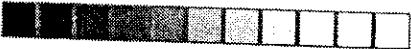
Enter the appropriate code number for the initial settings "AUDIO", "SUBTITLE" and/or "MENU LANGUAGE" (see pages 32, 33 and 35).

Language Name	Code	Language Name	Code	Language Name	Code	Language Name	Code
Abkhazian	1112	Fiji	1620	Lingala	2224	Singhalese	2919
Afar	1111	Finnish	1619	Lithuanian	2230	Slovak	2921
Afrikaans	1116	French	1628	Macedonian	2321	Slovenian	2922
Albanian	2927	Frisian	1635	Malagasy	2317	Somali	2925
Ameharic	1123	Galician	1722	Malay	2329	Spanish	1529
Arabic	1128	Georgian	2111	Malayalam	2322	Sundanese	2931
Armenian	1835	German	1415	Maltese	2330	Swahili	2933
Assamese	1129	Greek	1522	Maori	2319	Swedish	2932
Aymara	1135	Greenlandic	2122	Marathi	2328	Tagalog	3022
Azerbaijani	1136	Guarani	1724	Moldavian	2325	Tajik	3017
Bashkir	1211	Gujarati	1731	Mongolian	2324	Tamil	3011
Basque	1531	Hausa	1811	Nauru	2411	Tatar	3030
Bengali; Bangla	1224	Hebrew	1933	Nepali	2415	Telugu	3015
Bhutani	1436	Hindi	1819	Norwegian	2425	Thai	3018
Bihari	1218	Hungarian	1831	Oriya	2528	Tibetan	1225
Breton	1228	Icelandic	1929	Punjabi	2611	Tigrinya	3019
Bulgarian	1217	Indonesian	1924	Pashto, Pushto	2629	Tonga	3025
Burmese	2335	Interlingua	1911	Persian	1611	Turkish	3028
Byelorussian	1215	Irish	1711	Polish	2622	Turkmen	3021
Cambodian	2123	Italian	1930	Portuguese	2630	Twi	3033
Catalan	1311	Japanese	2011	Quechua	2731	Ukrainian	3121
Chinese	3618	Javanese	2033	Rhaeto-Romance	2823	Urdu	3128
Corsican	1325	Kannada	2124	Romanian	2825	Uzbek	3136
Croatian	1828	Kashmiri	2129	Russian	2831	Vietnamese	3219
Czech	1329	Kazakh	2121	Samoan	2923	Volapük	3225
Danish	1411	Kirghiz	2135	Sanskrit	2911	Welsh	1335
Dutch	2422	Korean	2125	Scots Gaelic	1714	Wolof	3325
English	1524	Kurdish	2131	Serbian	2928	Xhosa	3418
Esperanto	1525	Laothian	2225	Serbo-Croatian	2918	Yiddish	2019
Estonian	1530	Latin	2211	Shona	2924	Yoruba	3525
Faroese	1625	Latvian, Lettish	2232	Sindhi	2914	Zulu	3631



Specifications

Power supply:	AC 120V 60Hz
Power consumption:	Operation: 18W Stand by: 5W
Weight:	7.7lbs
Dimensions:	14-15/16" (W) X 3-3/4" (D) X 10-3/16" (H)
Signal system:	PAL/NTSC
Operating temperature:	5° - 40°C
Operating humidity:	Less than 80%
Applicable disc:	1. DVD (12cm, 8cm) 2. CD (12cm, 8cm)
Audio characteristics	
Frequency response:	DVD: 4Hz - 22KHz CD: 4Hz - 20KHz
S/N Ratio:	90dB
Harmonic distortion:	0.01%
Wow and flutter:	Below Measurable Level
Dynamic range:	96dB
Video out:	RCA jack 1.0Vp-p 75ohms, sync negative
RF Channel Output:	Channel 3 or 4, switchable
S-Video out:	4pin mini DIN Y: 1.0Vp-p 75ohms, sync, negative C: 0.3Vp-p 75ohms terminated
Audio out:	RCA jack (L, R) 2Vrms/10Kohm
Digital audio out:	Optical jack: -18dB Wave length: 660nm Coaxial jack: 0.5Vp-p 75ohms terminated
Pickup:	CD: Wavelength: 775 - 815 nm Maximum output power: 0.5 mW DVD: Wavelength: 650 - 666 nm Maximum output power: 2.0 mW



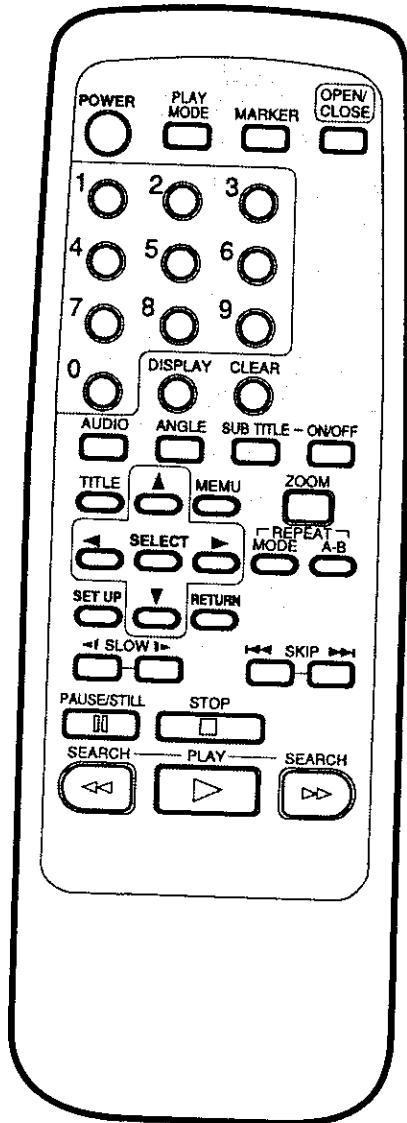
Problem and Troubleshooting

Use the following check list for troubleshooting when you have problems with your unit. Consult your local dealer or service outlet if problems persist.

Be sure all connections are properly made when using with other units.

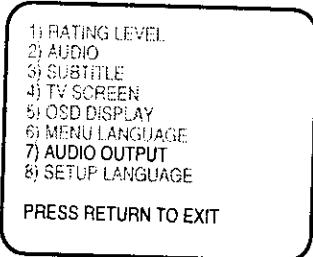
Problem	Remedy	Page
No power	AC power cord is unplugged.	11
Playback doesn't start.	<ul style="list-style-type: none">• No disc is inserted.• The disc may be dirty. Clean up the disc.• The unit cannot play CD-ROMs, etc.	17 17 —
No picture	<ul style="list-style-type: none">• Check the unit is connected correctly.• The video input selector of the TV is not set to VIDEO. Set to VIDEO.	12-16 19
No sound	<ul style="list-style-type: none">• Check the unit is connected correctly.• Check the input selector of the amplifier is set properly.• The unit is in the Special playback mode.	12-16 — 21,22
Picture is distorted during CUE or REVIEW.	The picture will be distorted occasionally.	—
Stopping playback, search, slow-motion play, repeat play, or program play, etc. cannot be performed.	Some discs may not do some of the functions.	—
No 4:3 (16:9) picture	The setup does not match your TV.	33
No on-screen display	Select OSD DISPLAY ON.	34
No surround sound	The setup does not match your stereo system.	36
The remote control does not function.	<ul style="list-style-type: none">• Aim at the remote control at the remote sensor.• Operate within Approx. 5 Meter or reduce the light of the room.• Clear the path of the beam.• The batteries are weak. Replace the batteries.• Check the batteries are inserted correctly.	11
The unit or remote operation key is not functioned.	Turn off the unit and unplug the AC power cord for several minutes and replug it.	—
Playback does not start when the title is selected.	Check the RATING LEVEL setup.	30
Audio soundtrack and/or subtitle language is not changed when you play back a DVD.	Multilingual language is not recorded on the DVD disc.	31,32
No subtitle	<ul style="list-style-type: none">• Some discs have no subtitle.• Subtitles are cleared. Press SUB TITLE.	32
Angle cannot be changed.	Multi-angles are not recorded on the DVD disc.	28
"!" is appeared on the screen.	The function is prohibited with the unit.	—
"!!" is appeared on the screen.	The function is prohibited with the disc.	—

Setting Audio Output

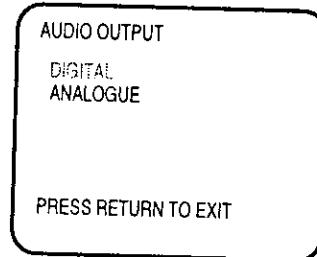


1 Press **SETUP** in the stop mode.

2 Press or to select **AUDIO OUTPUT**, then press **SELECT**.



3 Press or to select **DIGITAL** or **ANALOGUE**, then press **SELECT**.



DIGITAL:

When the unit is connected to an amplifier with any built-in decoder among Dolby Digital, MPEG or DTS.

ANALOGUE

- When the unit is connected to an amplifier without any built-in decoder among Dolby Digital, MPEG or DTS.
- When the unit is connected with RF cable to the TV.

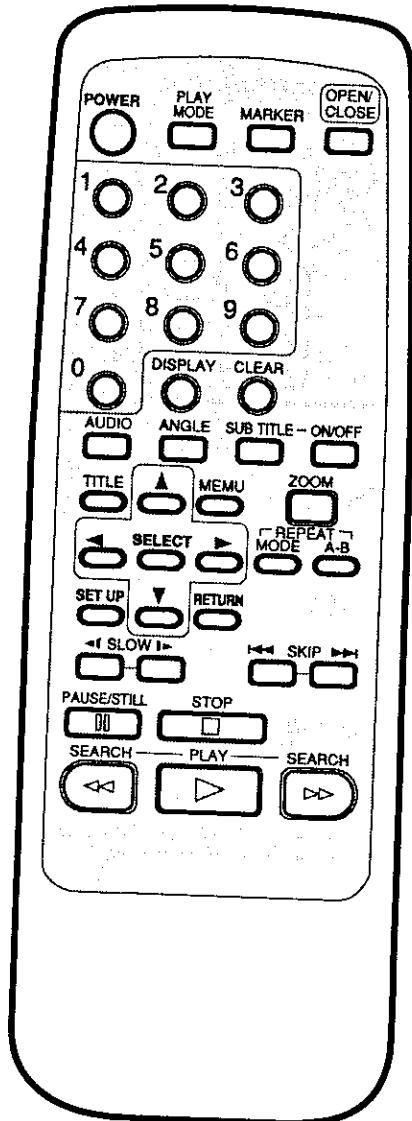
4 To make SETUP screen disappear, press **RETURN** while the SETUP screen is being appeared.

Note:

- Do not set to **DIGITAL** when you connect the unit to an amplifier without any built-in decoder such as a Dolby Digital using the optical or coaxial digital cable. Otherwise it may cause such a high level noise that it may be harmful noise to your ears and damage your speakers.
- When you set to **DIGITAL**, sound is not output from analogue AUDIO OUT(L, R) jacks (except 96kHz Sampling audio).
- MPEG Audio will be output with 2 channelled digital audio when you set to **DIGITAL**.
- DTS Audio will be output to COAXIAL or OPTICAL even if you set to **ANALOGUE**.

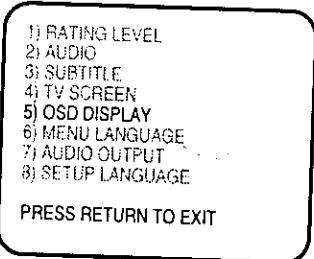
Setting On Screen Display

On screen display can be switched on or off when you press the buttons.

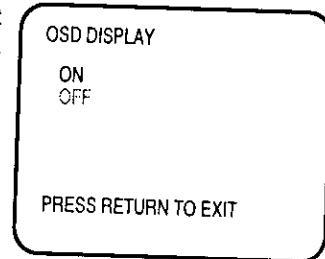


1 Press **SETUP** in the stop mode.

2 Press or to select **OSD DISPLAY**, then press **SELECT**.



3 Press or to select **ON** or **OFF**, then press **SELECT**.



ON: On screen displays appear when you press the buttons (factory setting).

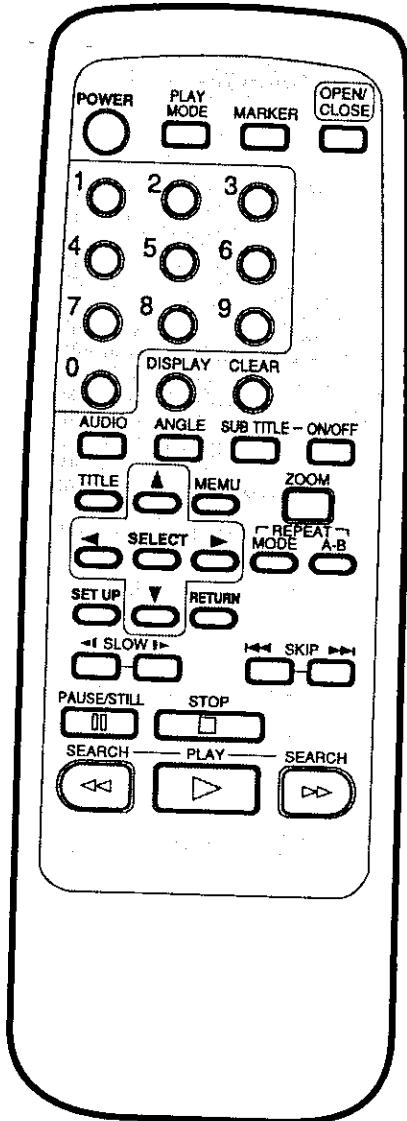
OFF: On screen displays do not appear when you press the buttons.

The **SETUP** screen will appear on the screen.

4 To make **SETUP** screen disappear, press **RETURN** while the **SETUP** screen is being appeared.

Setting Subtitle Language

The same subtitle language can always be selected even if you can replace the disc or turn the power off.



1 Press **SETUP** in the stop mode.

2 Press **▲** or **▼** to select **SUBTITLE**, then press **SELECT**.

- 1) RATING LEVEL
- 2) AUDIO
- 3) SUBTITLE
- 4) TV SCREEN
- 5) OSD DISPLAY
- 6) MENU LANGUAGE
- 7) AUDIO OUTPUT
- 8) SETUP LANGUAGE

PRESS RETURN TO EXIT

3 Press **▲** or **▼** to select your desired language, then press **SELECT**.

- SUBTITLE LANGUAGE PREFERENCE
- AUTOMATIC
- ENGLISH
- OTHER -----

PRESS RETURN TO EXIT

AUTOMATIC:

- The unit will automatically select the same language in the AUDIO setting.
- When the unit select the same language as the AUDIO, the subtitles will not appear during playback.
- When you do not use the same language as the AUDIO, the subtitles will appear during playback.

OTHER:

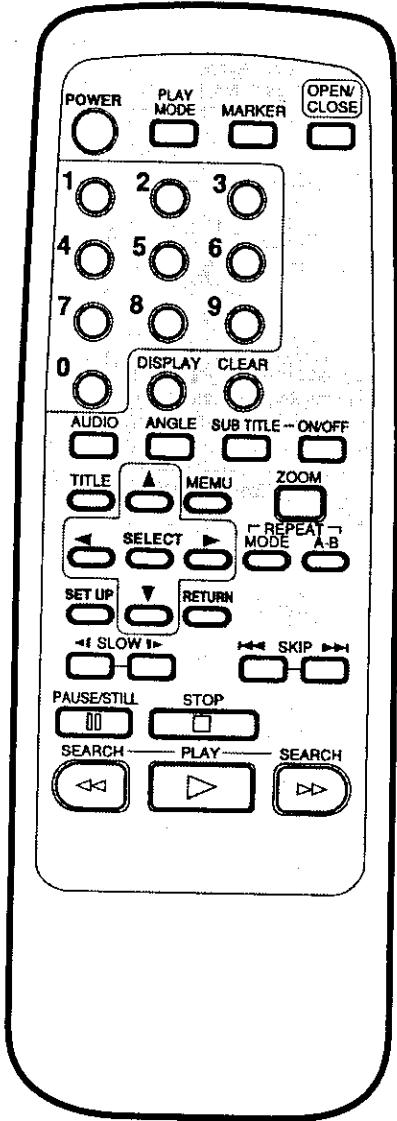
If you want to select other language, enter the language code (see the language code list on page 37).

4 To make SETUP screen disappear, press **RETURN** while the SETUP screen is being appeared.

Note:

If the selected language is not recorded on the disc, the first-priority language is selected.

To unlock the rating



1 Press **SETUP** in the stop mode.

2 Press **▲** or **▼** to select **RATING LEVEL**, then press **SELECT**.

- 1) RATING LEVEL
- 2) AUDIO
- 3) SUBTITLE
- 4) TV SCREEN
- 5) OSD DISPLAY
- 6) MENU LANGUAGE
- 7) AUDIO OUTPUT
- 8) SETUP LANGUAGE

PRESS RETURN TO EXIT

3 Press **number buttons** (0-9) to enter the passwords, then press **SELECT**.

RATING
PASSWORD IS NEEDED
TO CHANGE THE LEVEL.
PLEASE ENTER THE
4-DIGIT PASSWORD

1234 LOCK
PRESS RETURN TO EXIT

4 Press **SELECT**.

RATING SELECT LEVEL
1 NORMAL
2
3
VIEWABLE 4
PROHIBITED 5
6
7
8 ADULT
PRESS RETURN TO EXIT

5 Press **RETURN**.
Now the rating was unlocked.

RATING
LEVEL IS SET AT 4.
TO LOCK THE LEVEL
ENTER THE 4-DIGIT
PASSWORD.

---- UNLOCK
PRESS RETURN TO EXIT

Note:

Do not forget the password. If you forget the password, contact the dealer you purchased it, because you cannot clear the password.

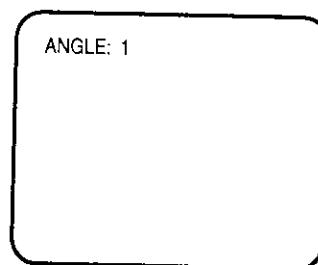


Changing Angles / Title Selection / DVD Menu

Changing Angles

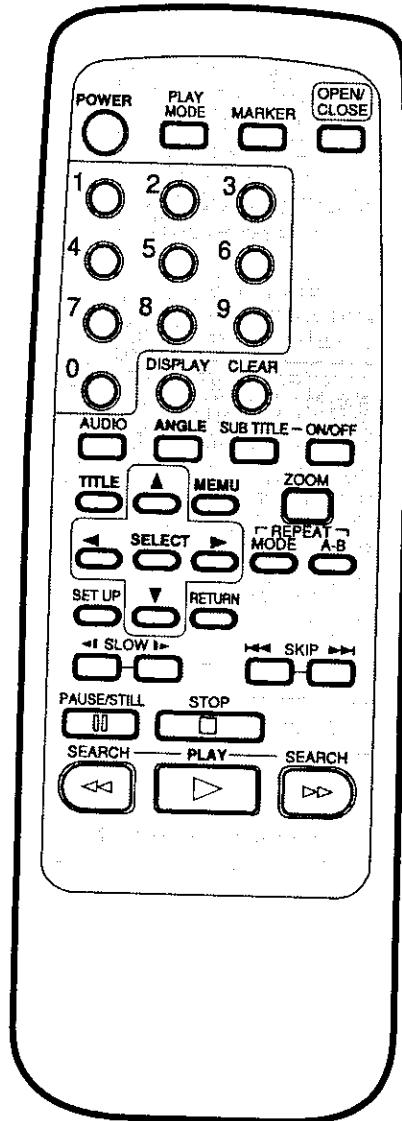
When playing back a disc recorded multi-angles shot, you can change the angles in the same scene.

- 1 Press **ANGLE** during playback.



- 2 Press \uparrow or \downarrow until the desired angle is selected.

- 3 Press **ANGLE** to make display disappear.



Title Selection

Two or more titles are recorded on some discs. If the title menu is recorded on the disc, you can select the desired title.

- 1 Press **TITLE** during playback.
Title menu appears on the screen.

- 2 Press \uparrow / \downarrow or \leftarrow / \rightarrow to select the desired title.

- 3 Press **SELECT** or **PLAY**.
The playback of the selected title starts.

DVD Menu

Some DVDs allows you to select the disc contents using the menu.

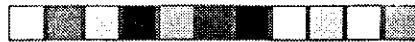
When you play back these DVDs, you can select the subtitle language, sound-track language,etc. using the DVD menu.

- 1 Press **MENU** during playback.
The DVD menu appears on the screen.

- Press **MENU** again to resume playback at the scene when you pressed the **MENU** button.

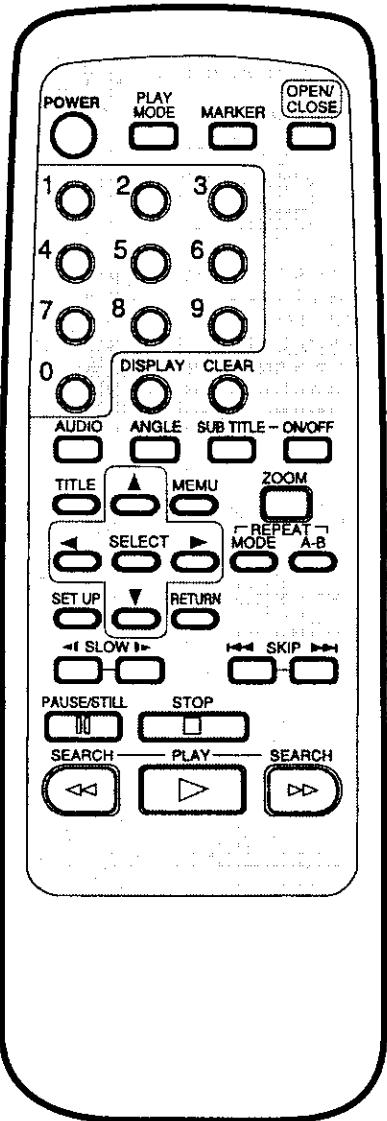
- 2 Press \uparrow / \downarrow or \leftarrow / \rightarrow to select the desired item.

- 3 Press **SELECT**.
The menu continues another screen. Repeat steps 2 and 3 to set the item completely.



Changing Soundtrack Language

You can select the language when you playing back the disc recorded multi-lingual sounds.



- 1 Press **AUDIO** during play-back.

AUDIO: 1

If "VOCAL OFF" appear on the screen, you can select "ON" or "OFF" with or .

- 2 Press or until the desired language is selected.

AUDIO: 3

- 3 Press **AUDIO** to make display disappear.

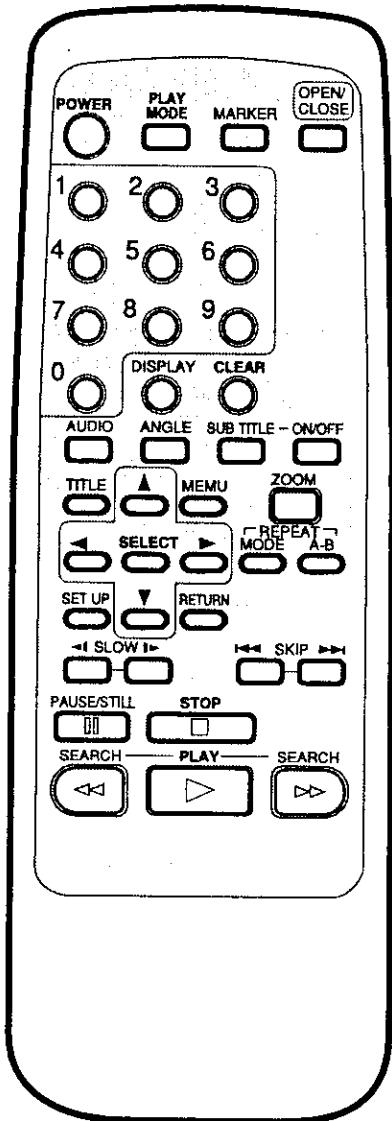
Note:

- If the desired language is not heard after pressing the button several times, the language is not recorded on the disc.
- Changing soundtrack language is canceled when you open the disc tray or turn the power off. The initial setted language or available language will be heard if the disc is played back again.

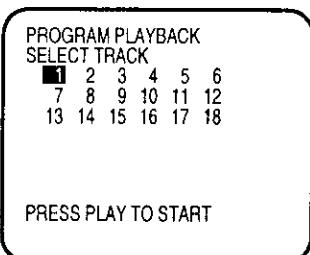


Program Playback (Audio CD)

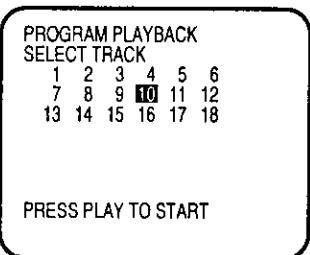
You can arrange the tracks order on the disc.



1 Press **PLAY MODE** in the stop mode.



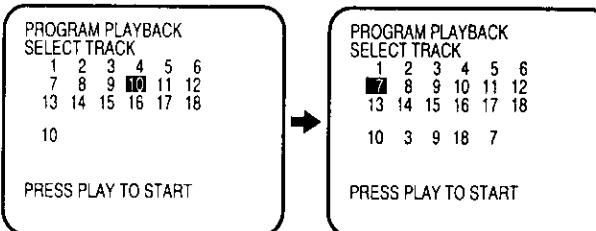
2 Press Δ / ∇ or \leftarrow / \rightarrow to select the desired track.



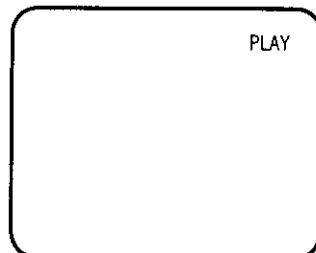
- The triangle marks indicate that tracks are remained next to the marks.
- Press **CLEAR** to delete the programmed track.

3 Press **SELECT**.

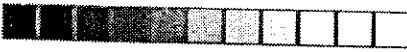
- The selected track is memorized.
- To program other, repeat Step 2 and 3.



4 Press **PLAY**.



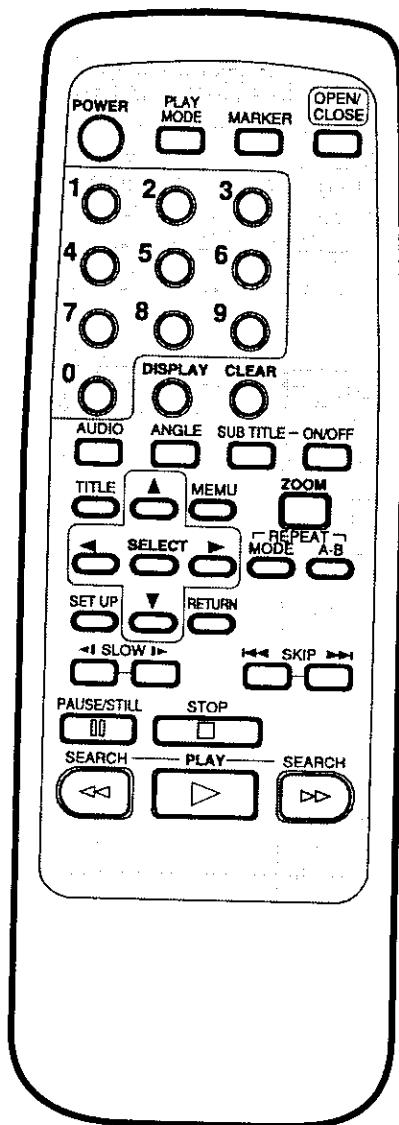
- The programming screen automatically appears when the program playback is finished.
- To cancel program play, press **STOP**, then press **PLAY MODE**. "STANDARD PLAYBACK" appears on the screen.
- The program is canceled when you open the disc tray or turn the power off.



Zooming / Locating Desired Scene

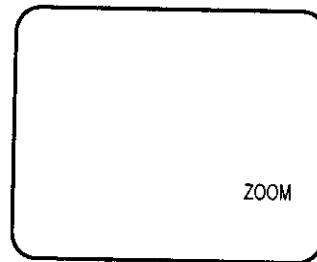
Zooming

In this unit you will zoom in on the frame image. You then will make selections by switching the position of the frame. The frame image is displayed at a 1:4 view.



- 1 Press **ZOOM** during playback.

The center part of the image will be zoomed in.

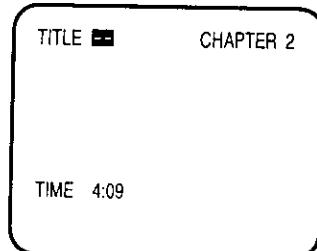


- 2 Press \uparrow/\downarrow or \leftarrow/\rightarrow to move the frame one by one. You may move the frame two times from the center position to UP, DOWN, LEFT, RIGHT direction.
- 3 In the zoom mode press **ZOOM** again to return to a 1:1 view.

Locating Desired Scene

Use the title, chapter and time recorded on disc to locate the desired point to play back.

- 1 Press **DISPLAY** during playback.



- 2 Press \uparrow/\downarrow or \leftarrow/\rightarrow to select the title, chapter or time.

- 3 Press **Number buttons (0-9)** to change the number.

- If you input a wrong number, press **CLEAR**.
- Refer to the package supplied with the disc to check the numbers.

- 4 Press **SELECT** or **PLAY**.

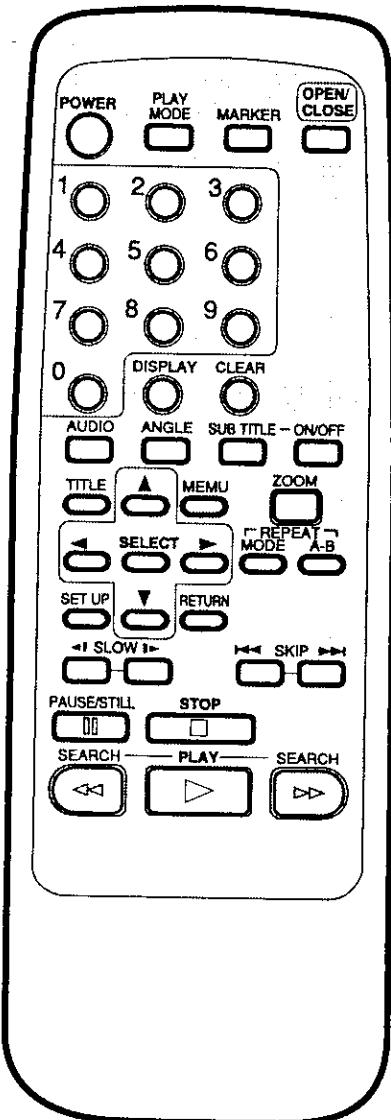
- Playback starts.
- When you change the title, playback starts from the Chapter 1 of the selected title.
- Some discs may not work in the above operation.

Note:

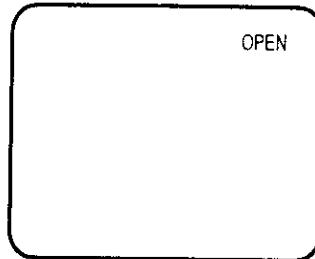
You can select the Pause, Slow, Search playback in the zoom mode. However, you cannot zoom in during the Pause, Slow or Search playback.



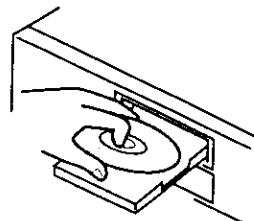
Playback Procedure



1 Press **OPEN/CLOSE**.
The disc tray opens.

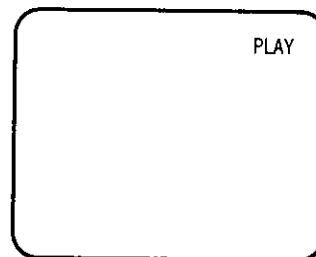


2 Place a disc onto the tray.
Hold the disc, position it with the printed label side up, align it with the guides, and place it in its proper position.



3 Press **PLAY** or **CLOSE**.
The disc tray closes automatically and play commences.

A menu screen will appear on the TV screen, if the disc has menu.



4 Press Δ / ∇ or \blacktriangleleft / \blacktriangleright to select title.

5 Press **SELECT**.
• Title is selected and play commences.

6 Press **STOP** to end playback.
• The unit records the stopped point depends upon the disc. Press **PLAY** to resume playback.
• If you press **STOP** again or unload the disc, the unit will clear the stopped point.

7 If you stop the playback, press **STOP**.
Then press **OPEN/CLOSE**.
The disc tray opens.
Remove the disc and then press **POWER**.
The disc tray closes automatically and unit turns off.

Note:

If the impossible disc of playback is loaded, "INCORRECT DISK" will appear on TV screen.

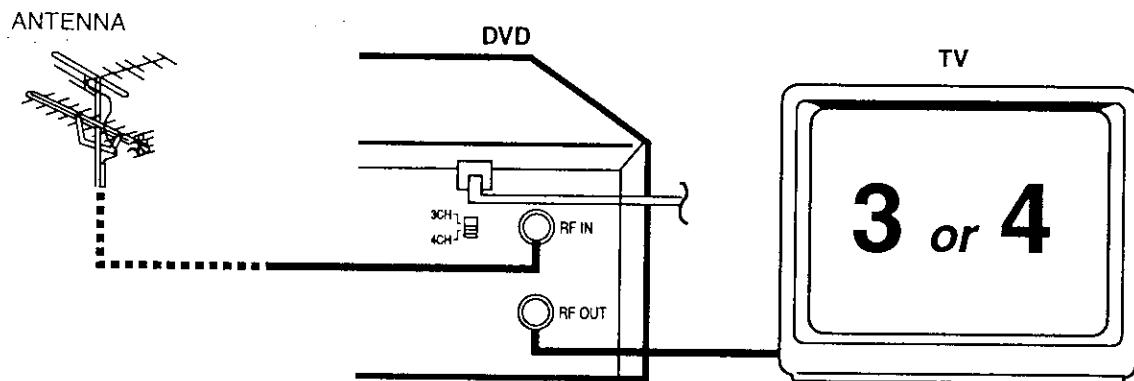


Setting the Video Channel

When you have connected this unit to your TV with RF cable as described on page 13 the TV must be set to channel 3 or 4 (video channel). The DVD 3/4 Channel Selector must also be set to channel 3 or 4 as shown below.

If your television has A/V input jacks, we recommend connecting this DVD player to your television through the A/V input jacks using the A/V cable for optimum picture quality.

If you have connected your DVD to your TV using Audio/Video cables you can ignore this page.



- 1 Press **POWER** to turn your DVD on.
- 2 Set the **3/4 Channel Selector** on the rear panel of your DVD to CH 3 or 4.
- 3 Turn on the TV and set to CH 3 or 4 to correspond with the channel selector in step 2.

For a push-button TV tuner

If CH3 or 4, corresponding to the video channel cannot be tuned on your TV, or is not broadcasting in your area, proceed as follows: set the DVD 3 or 4 channel selector switch and the TV to CH 3 or 4. Play back a DVD disk and tune the TV to receive a sharp color picture from this unit. Refer to your TV owner's manual for details.

Note:

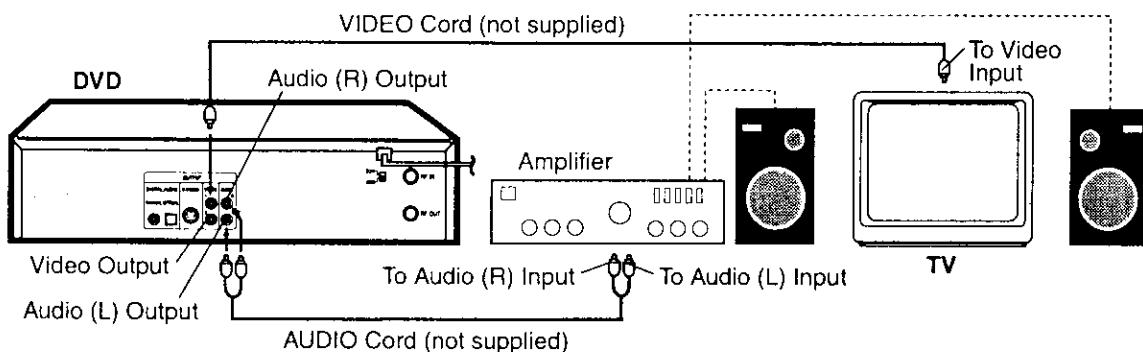
- When you watch the TV through the DVD with RF cable, turn the DVD power switch to off.
- When you watch a DVD disc with the video channel as the above connection, you must select sound selector to "ANALOG", if not the sound will not be able to hear.



Audio/Video Connections

(Continued)

Using an Audio Amplifier

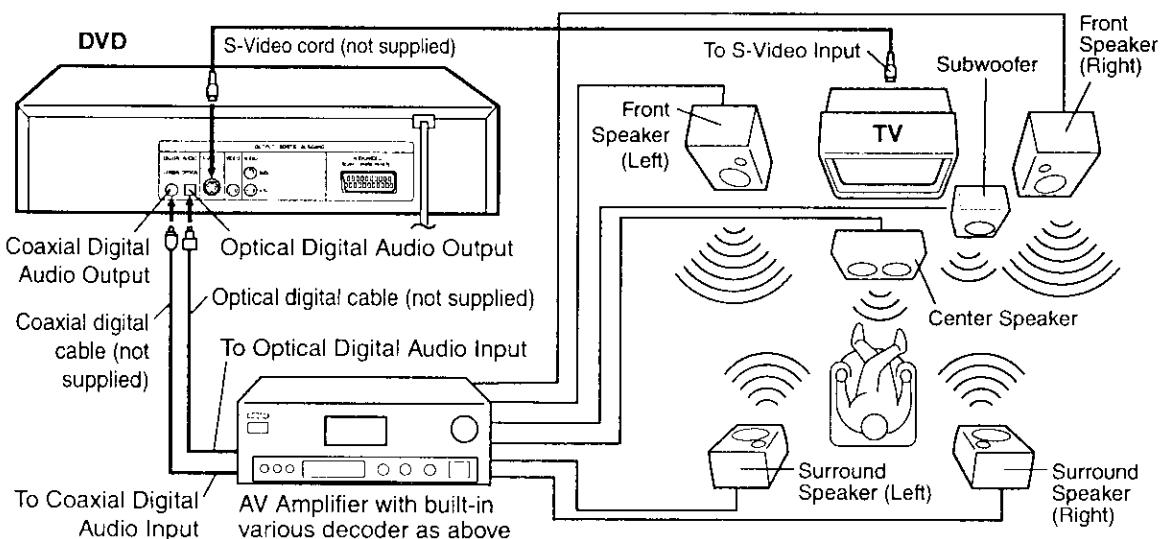


Using an AV Amplifier with built-in decoder

If you are using an Amplifier with built-in any decoder as follows, you can enjoy the various audio systems include a Dolby Surround audio that you've heard only at the movie.

Use this connection to connect an:

- AV amplifier with built-in Dolby Digital decoder
- AV amplifier with built-in DTS decoder
- AV amplifier with built-in MPEG decoder, etc.
- Set the AUDIO OUTPUT to DIGITAL in the SETUP mode (See page 16)



* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. © 1992-1997 Dolby Laboratories. All rights reserved.

* DTS and DTS Digital Out are trademarks of Digital Theater Systems, Inc.

Connecting the optical digital cable

- When you connect the optical digital cable (not supplied), remove the dust protection cap from the rear of DVD.
- When not using the optical digital cable, attach the dust protection cap to protect against dust.

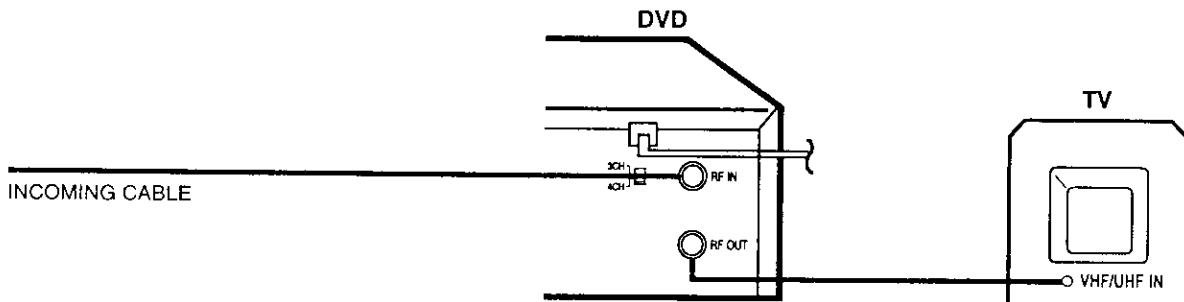
Connections

(Continued)

The DVD must be connected "between" the cable from cable company and the TV. First, disconnect the cable from the TV and connect it to the DVD. Then connect the DVD to the TV.
Below are 3 common methods of cable connections.

1 For use with unscrambled cable channels.

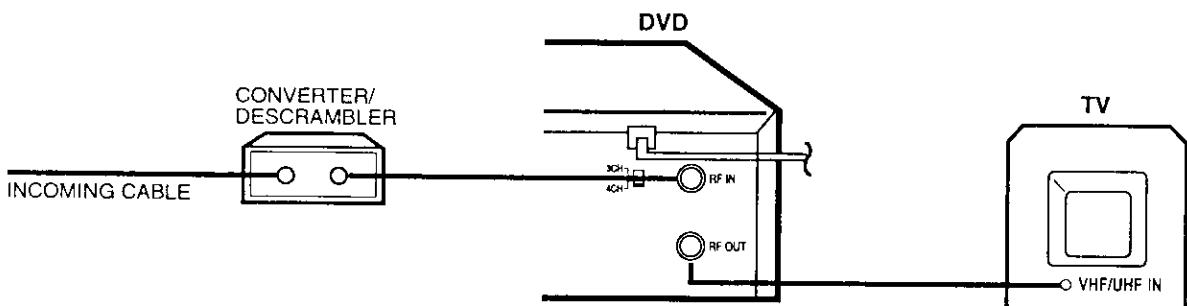
Allows viewing of all unscrambled cable channels.



2 For use with cable systems requiring the use of a converter/descrambler box to select channels.

Allows viewing of all cable channels (scrambled or unscrambled) selected on the cable converter/descrambler box.

NOTE: The TV must be set to the video channel output of the DVD (either ch 3 or 4).

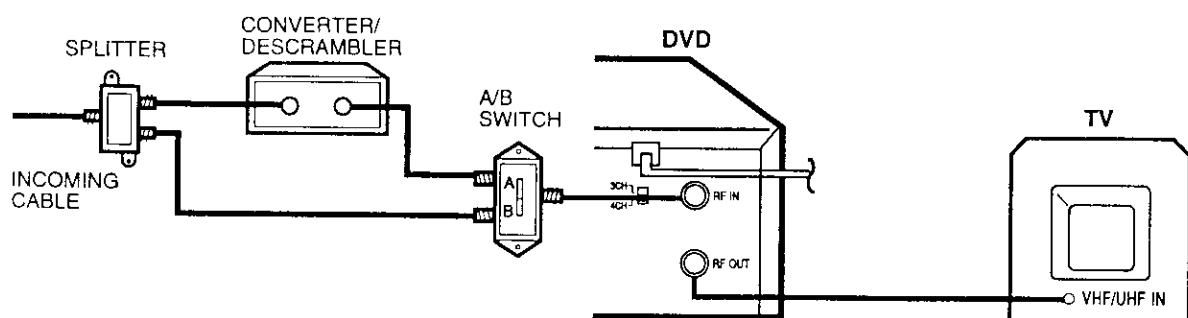


3 For use with cable systems combining unscrambled basic cable channels with scrambled pay cable channels.

When the A/B switch is in the "A" position, the TV can tune all unscrambled channels.

When the A/B switch is in the B position, you must tune all cable channels (scrambled or unscrambled) on the cable converter/descrambler box.

NOTE: The TV must be set to the video channel output of the DVD (either CH 3 or 4).





Connections

If you are using an antenna system follow the instructions on pages 12-13. If you are a cable (CATV) subscriber, skip ahead to page 14 for the proper connections.

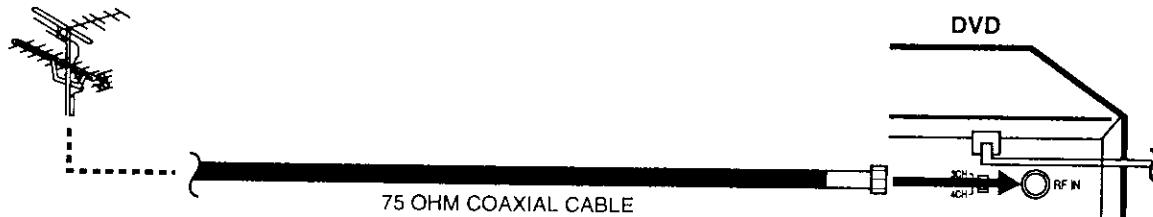
If your television has A/V input jacks, we recommend connecting this DVD player to your television through the A/V input jacks using the A/V cable for optimum picture quality. See pages 15-16 for Audio/Video connections.

ANTENNA TO DVD CONNECTION

The DVD must be connected "between" the antenna, and the TV. First, disconnect the antenna from the TV and connect it to the DVD. Then connect the DVD to the TV. Below are 3 common methods of connecting an antenna system to a DVD. Find the type of antenna system you are using and follow the connection diagram. After you have connected the antenna to the DVD, follow the instructions on page 13 to connect the DVD to the TV.

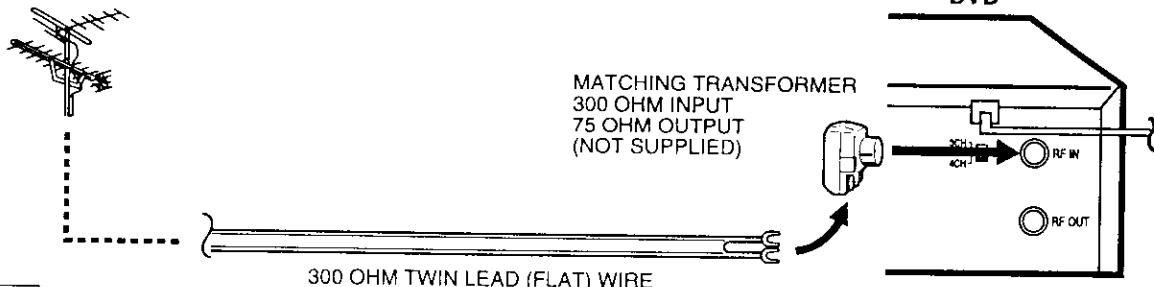
1

COMBINATION VHF/UHF ANTENNA
WITH 75 OHM COAXIAL CABLE



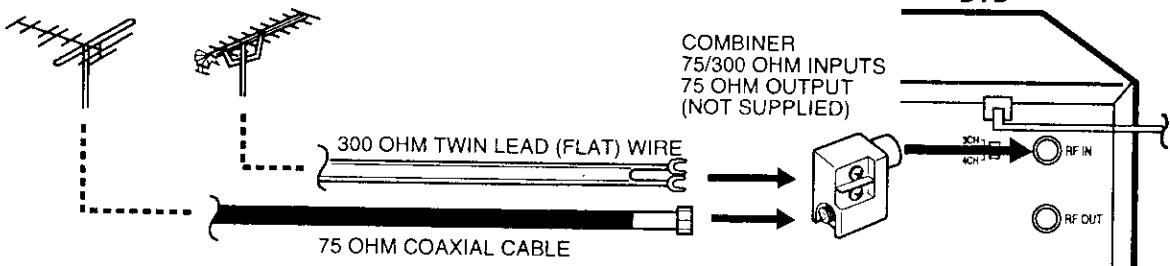
2

COMBINATION VHF/UHF ANTENNA
WITH 300 OHM TWIN LEAD (FLAT) WIRE



3

SEPARATE VHF AND UHF ANTENNAS

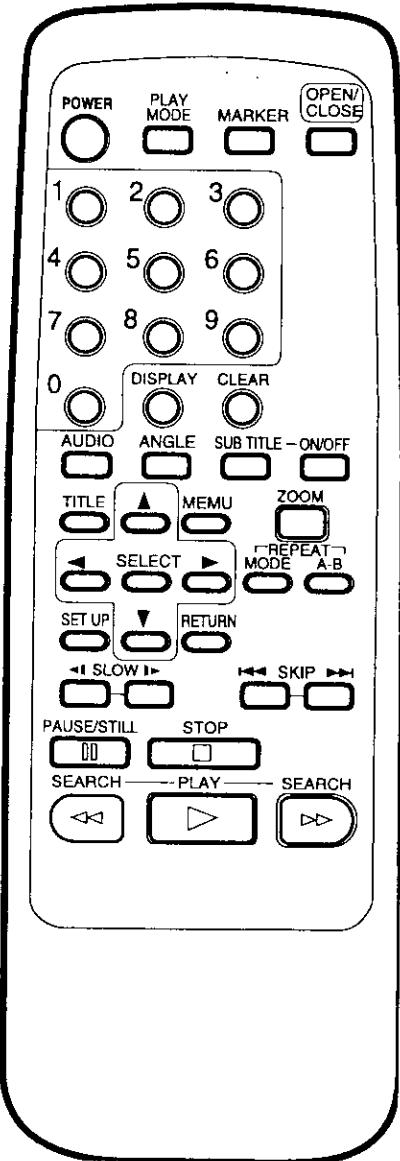


NOTE: If both VHF and UHF antennas have 300 ohm twin lead (flat) wire, use a combiner having two 300 ohm inputs and one 75 ohm output.

This DVD has a single 75 ohm antenna input for connection to an antenna (VHF/UHF) or cable (CATV) system. If you have separate VHF and UHF antennas (number 3 above), use a combiner to connect the antennas to the DVD.

NOTE: If you are not sure about the connection, please refer to qualified service personnel.

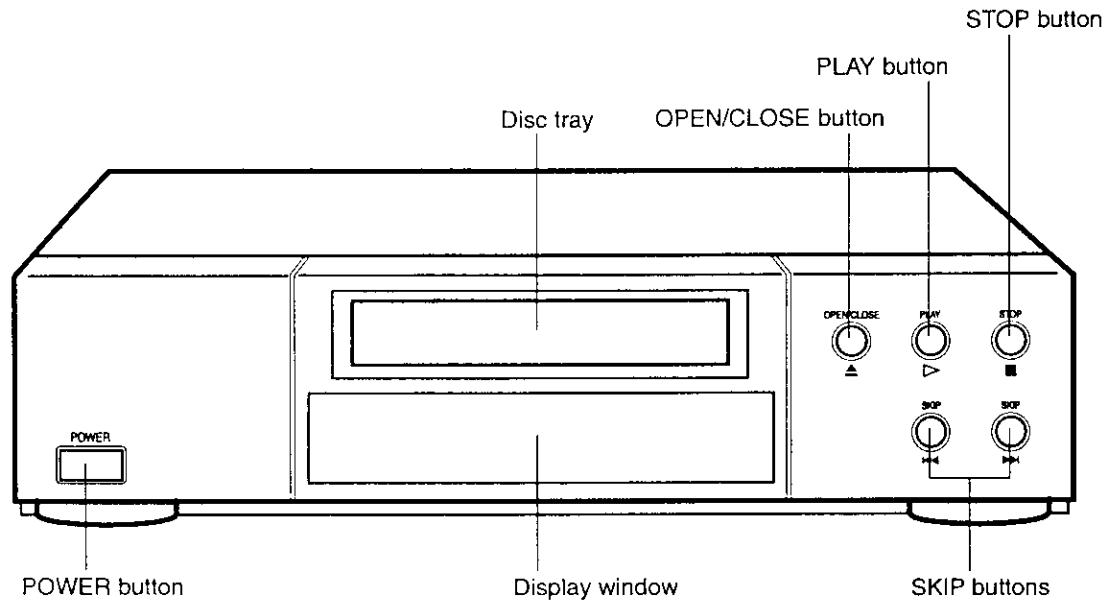
Remote Control



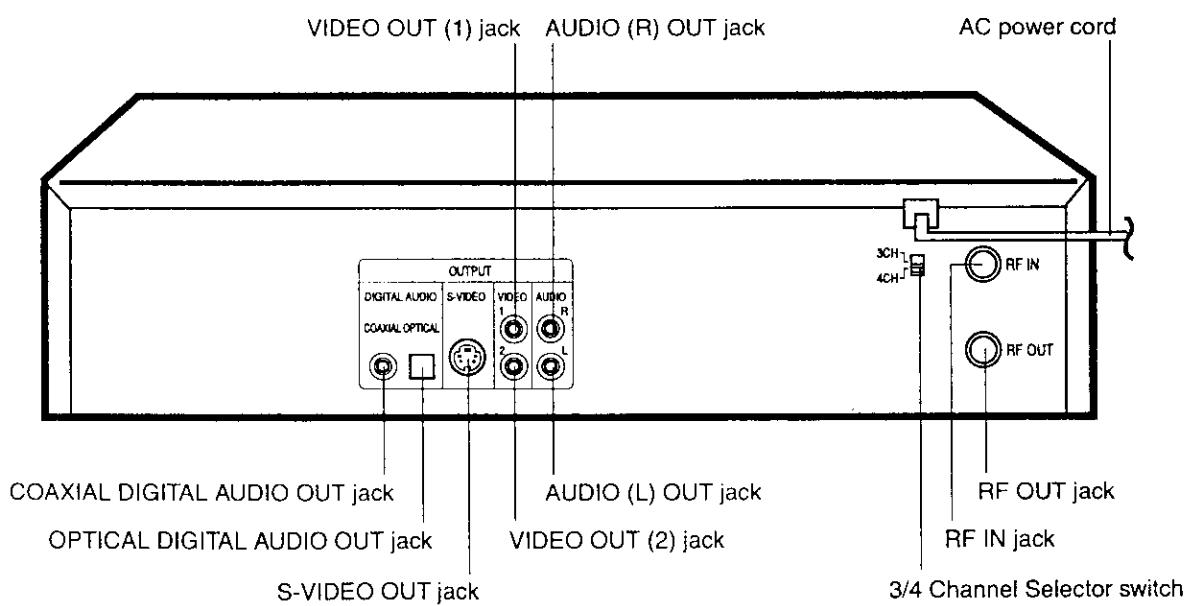
	Page
POWER	Power On/Off
PLAY MODE	Select Playback mode
MARKER	Index
OPEN/CLOSE	Tray open or close
0 ~ 9	Call a desired scene
	Enter a password
DISPLAY	Call Title, Chapter and Time
CLEAR	Cancel Index mark
AUDIO	Change Soundtrack language for DVD
ANGLE	Change Playback angle
SUB TITLE - ON/OFF	Subtitle
TITLE	Select title
MENU	Call DVD menu
ZOOM	Zoom
SELECT	Cursor buttons
REPEAT MODE	Select button
A-B	Repeat playback
REPEAT	Repeat playback between A and B
SET UP	Call Initial Setup mode
RETURN	Return
SEARCH	Forward/Reverse-Slow motion
PLAY	Skip chapter to Forward or Reverse-direction
PAUSE/STILL	Return
STOP	Stop
SEARCH	Fast Forward/Review-Playback
PLAY	Playback

Parts and Functions

Front



Rear





Features

The followings are the guide of the DVD.

The DVD disc has much more capacity, but the size is the same as the audio CD disc. Picture/Audio quality of the DVD exceeds other software. Picture quality is higher than Super VHS. Audio quality is higher than audio CD. The DVD also has special options; audio language selection, subtitle language selection or multi-angle, etc. The DVD PLAYER can play back audio CDs.

High Quality Picture

Horizontal Resolution

More than 500 lines. It exceeds Super VHS (400 lines) or Laser Disc (430 lines) in resolution.

S-Video Jack

It separates the color and luminance signals before transmitting to the TV to gain a sharper picture.

Compatible with a wide range of DVD audio output

Optical Digital Audio Jack/Coaxial Digital Audio Jack

- When the component with a built-in Dolby Digital decoder is connected, Dolby Digital sound can produce the effect of being in a movie theater or a concert hall.
- Surround standard different from Dolby Digital. This format is already in use in many theaters. By connecting this unit to a DTS decoder or an AV amplifier with a built-in DTS decoder, the DTS audio of DVD discs recorded in this format can be enjoyed. However, audio will not be output from the analog audio output jacks.
- By connecting this unit to an AV amplifier with a built-in MPEG decoder, the MPEG audio of DVD discs recorded in this format can be enjoyed.
- The Linear PCM sound of a 48 kHz/16 bit through 96 kHz/20 bit exceeds audio CD sound.

Convenience Features

Direct selection of your desired scenes using Title/Chapter/Time/Track

You can play back from the desired scene.

Recalling Up to 3 Scenes (DVD only)

You can program up to 3 scenes in memory and recall the marked scenes.

Color Signal Conversion

The unit can play back NTSC or PAL disc. NTSC or PAL system TV allows watching both PAL and NTSC disc without changing the monitor.

Frame Advance

The PAUSE/STILL moves you forth one frame at a time.

Slow Motion

The SLOW moves you back and forth through the program at back speed about 1/2X and forth speed about 1/4.

Repeat Playback

You can repeat chapter, track, title, sides or material between two selected points.

Program Playback (Audio CD)

You can play back tracks in programmed sequences.

4:1 Zoom (DVD only)

You can zoom in the selected subject on the screen during playback.

Note: Make sure that discs are ready for the following functions.

Multi-Language

Maximum 32 language subtitles and maximum 8 language soundtracks can be played back for movies or educations.

Multi-Angle

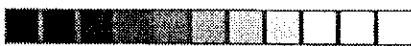
Pictures of Sports or Live Concert are recorded with many cameras. When you play such disc, you can change the angles during playback.

Parental Control

You can limit to play back the scenes or sounds of the adult DVD disc which has the parental level.

Video Aspect Ratio

You can change the aspect ratio of the screen for your monitor.



IMPORTANT SAFEGUARDS

(CONTINUED)

15. OVERLOADING

Do not overload wall outlets and extension cords, as this can result in a risk of fire or electric shock.

16. OBJECT AND LIQUID ENTRY

Do not push objects through any openings in this unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

17. OUTDOOR ANTENNA GROUNDING

If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA 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.

18. SERVICING

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

19. DAMAGE REQUIRING SERVICE

Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the unit.
- c. If the unit has been exposed to rain or water.
- d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
- e. If the unit has been dropped or the cabinet has been damaged.
- f. When the unit exhibits a distinct change in performance, this indicates a need for service.

20. REPLACEMENT PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock or other hazards.

21. SAFETY CHECK

Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

22. WALL OR CEILING MOUNTING

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

23. HEAT

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

24. DISC TRAY

Keep your fingers well clear of the disc tray as it is closing. It may cause serious personal injury.

25. CONNECTING

When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause an electric shock and serious personal injury. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.

SOUND VOLUME

26. Reduce the volume to the minimum level before you turn on the product. Otherwise, sudden high volume sound may cause hearing or speaker damage.

27. SOUND DISTORTION

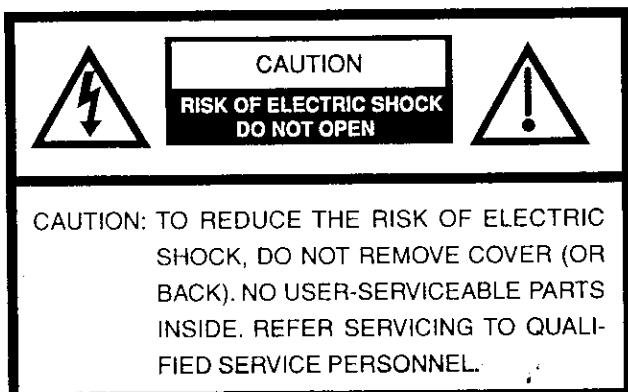
Do not allow the product output distorted sound for a longtime. It may cause speaker overheating and fire.

28. HEADPHONES

When you use the headphones, keep the volume at a moderate level. If you use the headphones continuously with high volume sound, it may cause hearing damage.

29. LEASER BEAM

Do not look into the opening of the disc tray or ventilation opening of the product to see the source of the laser beam. It may cause sight damage.



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



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



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

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

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

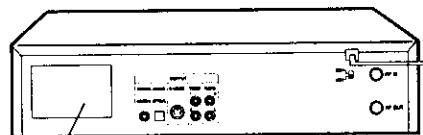
CAUTION:
THIS DIGITAL VIDEO PLAYER EMPLOYS A LASER SYSTEM.

TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS OWNER'S MANUAL CAREFULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LOCATION-SEE SERVICE PROCEDURE.

USE OF CONTROLS, ADJUSTMENTS OR THE PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

TO PREVENT DIRECT EXPOSURE TO LASER BEAM, DO NOT TRY TO OPEN THE ENCLOSURE. VISIBLE LASER RADIATION MAY BE PRESENT WHEN THE ENCLOSURE IS OPENED. DO NOT STARE INTO BEAM.

Location of the required Marking
The rating sheet and the safety caution are on the rear of the unit.



CERTIFICATION: COMPLIES WITH
FDA RADIATION PERFORMANCE
STANDARDS, 21 CFR SUBCHAPTER J.