

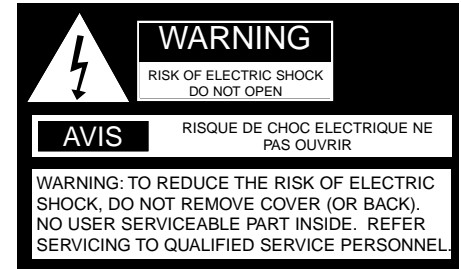
Safety Precautions



The lightning flash with a 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: DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE, DUE TO THE HIGH RISK OF FIRE OR ELECTRIC SHOCK, DO NOT OPEN THE CABINET DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. ONLY QUALIFIED SERVICE PERSONNEL SHOULD ATTEMPT THIS.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, AND FULLY INSERT.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUE, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOUD.

CAUTION: This Digital Video Disc Player employs a Laser System. To prevent direct exposure to the laser beam, do not try to open the enclosure. Visible laser radiation when open and interlocks defeated.

The use of control adjustments or the performance of procedures other than those specified may result in hazardous radiation exposure.

DO NOT STARE INTO BEAM.

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, or contact APEX Digital Inc. Only qualified service personnel should remove the cover.

FCC NOTICE: This equipment has been tested and found to comply with the limits for a Class B digital device. Pursuant with the FCC Rules, Part 15. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

WARNING: Changes or modifications made to this equipment, not expressly approved by APEX or parties authorized by APEX will void all the manufacture warranties.

THE REGION CODE FOR THE UNIT IS 1.



Since it is very usual for DVD movies to be released at different times in different regions of the world, all players have region codes and disks can have an optional region code. If you load a disk of a different region code to your player, you will see the region code notice on the screen. The disk will not play, and should be unloaded.

For Customer Use:

In spaces provided below, record the Model and Serial No. located on the rear panel of your DVD video player.

Model No. _____ **Serial No.** _____

Retain this information for future reference.

Important Safety Instructions

CAUTION:

PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. PLEASE KEEP THIS MANUAL FOR FUTURE USE.

This product was designed and manufactured to meet strict quality and safety standards. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use, and service. There are, however, some installation and operation precautions which you should be aware of.

1. READ THE OWNER'S MANUAL - Follow all the operating and installation instructions.

2. RETAIN INSTRUCTIONS - The safety and operating instructions should be retained for future use.

3. PAY ATTENTION TO WARNINGS - All warnings on the appliances and in the operating instructions should be followed.

4. FOLLOW INSTRUCTIONS - Follow all operating instructions to achieve optimal use.

5. POWER SOURCES - This product should only be operated from the type of power source indicated on the label.

6. HEAT - This unit should be situated away from heat sources, such as amplifiers, radiators, stoves or any other units producing heat.

7. WATER AND MOISTURE - Do not use this unit near water, for example: near the kitchen sink, a bath tub, washbowl, laundry tub, swimming pool, or in a wet basement.

8. CLEANING - Unplug the unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners directly on the unit. Use a damp cloth for cleaning.

9. CARTS AND STANDS - The unit and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the unit and cart combination to overturn. The unit should be used only with a cart or stand recommended by the manufacturer.

10. 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.

11. OVERLOADING - Do not overload wall outlet, or extension cords. This can result in a risk of fire or electrical shock.

12. DISC TRAY - Keep your fingers well clear of the disc tray as it is closing. It may cause serious personal injury, or do damage to the machine.

13. WEIGHT - Do not place a heavy object (amplifier, receiver) on your DVD player. The object may fall, causing serious personal injury or death.

14. OBJECT AND LIQUID ENTRY - Care should be taken so

that objects do not fall and liquids are not spilled into the units openings. Such situations could result in fire or electrical shock.

15. NON-USE PERIODS - The power cord of the unit should be unplugged, when not in use for a long time.

16. Disc - Do not use a deformed, cracked, or heavily scratched disc. Using these disc will limit your viewing pleasure, and/or may damage the internal workings of your machine.

17. LIGHTING AND POWER SURGES - Use a power strip to help eliminate surges and spikes caused by lighting and static electric charges.

18. POLARIZATION OR GROUNDING - Precautions should be taken so that the polarization or grounding means of a unit is not defeated. To prevent electric shock match the wide blade of the plug to the wide slot of the outlet and fully insert. If the wide blade does not match up with the outlet try reversing the plug.

19. SERVICING - Do not attempt to service this unit yourself. Only qualified APEX service technicians should work on your DVD Player.

20. DAMAGE REQUIRING SERVICE - The unit should be

serviced by qualified APEX authorized specialist when:

- A. The unit does not appear to operate normally or exhibits a marked change in performance.*
- B. When the power supply cord or plug is damaged.*
- C. If objects have fallen, or liquid has been spilled into the unit.*
- D. If the unit has been exposed to water or rain.*
- E. If the unit has been dropped or damaged in any way.*

21. SAFETY CHECK - Ask the service technician to perform safety checks upon completion of the unit.

22. WALL AND CEILING MOUNTING - The unit should be mounted to a wall or ceiling only as recommended by the manufacturer.

Introduction

Your DVD video player is a player for digital video discs conforming to the universal DVD video standard. With it, you will be able to enjoy full-length movies with true cinema picture quality, and stereo or multi-channel sound (depending on the disc, and on your playback setup). The unique features of this DVD video, such as selection of sound track and subtitle languages, and of different camera angles (again depending on the disc), are all included. What's more, Parental Control lets you decide which discs your children will be able to see.



You will find your player remarkably easy to use, by way of the On-Screen Display (Setup Menu) and player display, in combination with the remote control.

UNPACKING

When shipping the DVD video player, the original shipping carton and packing comes in handy. For maximum protection, repack the unit as it was originally packed at the factory.

First check and identify the contents of your DVD video players package, as listed below:

- DVD video player
- Remote control handset with separately packed batteries
- Power cable
- RCA cables (3) (1 yellow, 1 red, and 1 white)
- Owner's manual
- Size AAA batteries (2)

If any item should be damaged or missing, please inform your supplier without delay.

Keep the packaging materials, you may need them to transport your player in the future.

WHERE TO LOCATE YOUR DVD

- Place the unit on a firm, flat surface.
- When you place this DVD video player near a radio, or VCR, the playback picture may become poor and/or distorted. In this situation, move the DVD video player away from the other units.
- Keep away from direct sunlight & domestic heating equipment.
- If placed in a cabinet, please allow at least 2.5 cm (1 inch) of free space all around the player for proper ventilation.

TO OBTAIN A CLEAR PICTURE

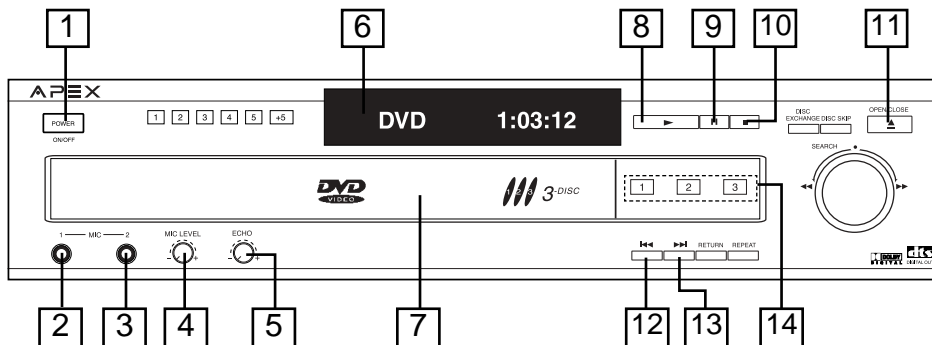
The DVD video player is a high technology, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality becomes poor. To obtain a clear picture, we recommend regular inspection and maintenance (cleaning or parts replacement) every 1,000 hours of use depending on the operating environment. For details, contact your nearest dealer.

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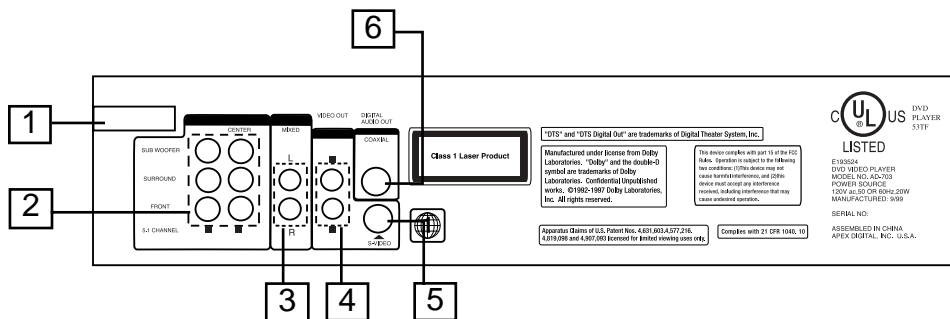
Identification of Controls

FRONT PANEL



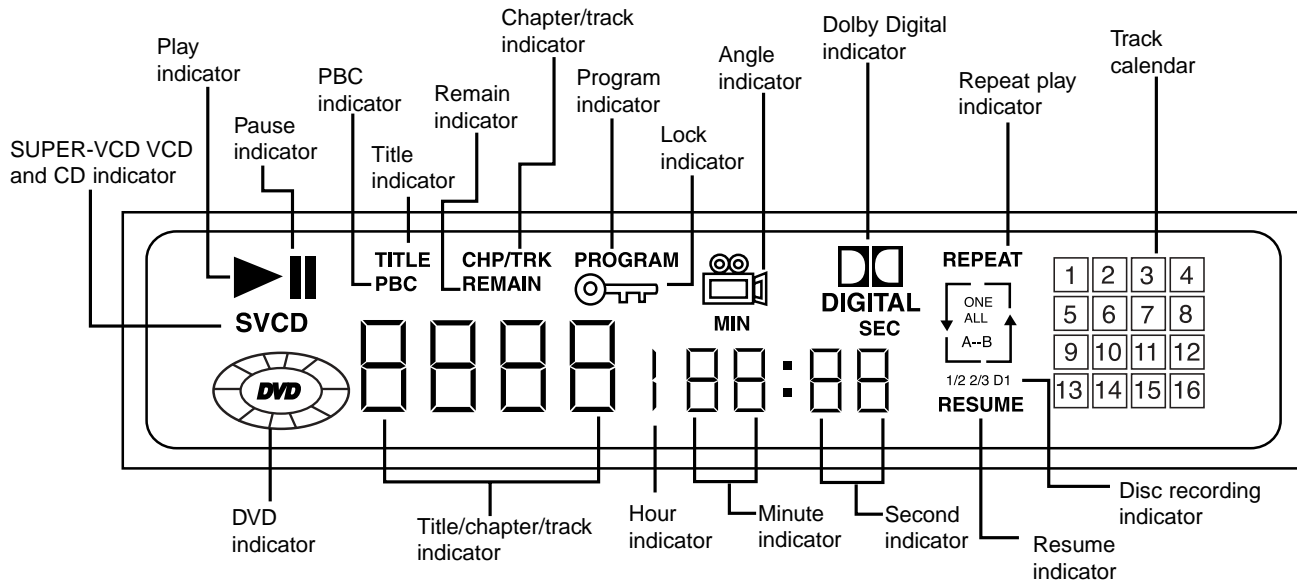
- | | |
|----------------------------|---|
| 1 POWER ON/OFF | 8 PLAY |
| 2 MIC 1 | 9 PAUSE |
| 3 MIC 2 | 10 STOP |
| 4 MIC LEVEL | 11 OPEN/CLOSE |
| 5 ECHO LEVEL | 12 SKIP REVERSE |
| 6 DVD DISPLAY | 13 SKIP FORWARD |
| 7 DISC LOADING TRAY | 14 DIRECT PLAY OR DISC EXCHANGER |

REAR PANEL




- | |
|--------------------------------|
| 1 POWER SUPPLY CORD |
| 2 5.1 CHANNEL AUDIO OUT |
| 3 MIXED AUDIO OUT |
| 4 VIDEO OUT |
| 5 S-VIDEO OUT |
| 6 COAXIAL OUT |

DVD Display




- The indicators vary depending on the kinds of discs you play.
- Push the DIMMER button, the brightness of the display is reduced by half; push it once more, the display becomes dark. Push the button again, the display resumes brightness.

• Other indicators


 When playing back the same title, chapter or track repeatedly.


 When playback is paused.

 When playing back a specific segment repeatedly. (A-B repeat)

MEMORY During memory playback.

RANDOM During shuffle playback.


 When playing back the entire disc repeatedly.

 When the camera angle can be changed.

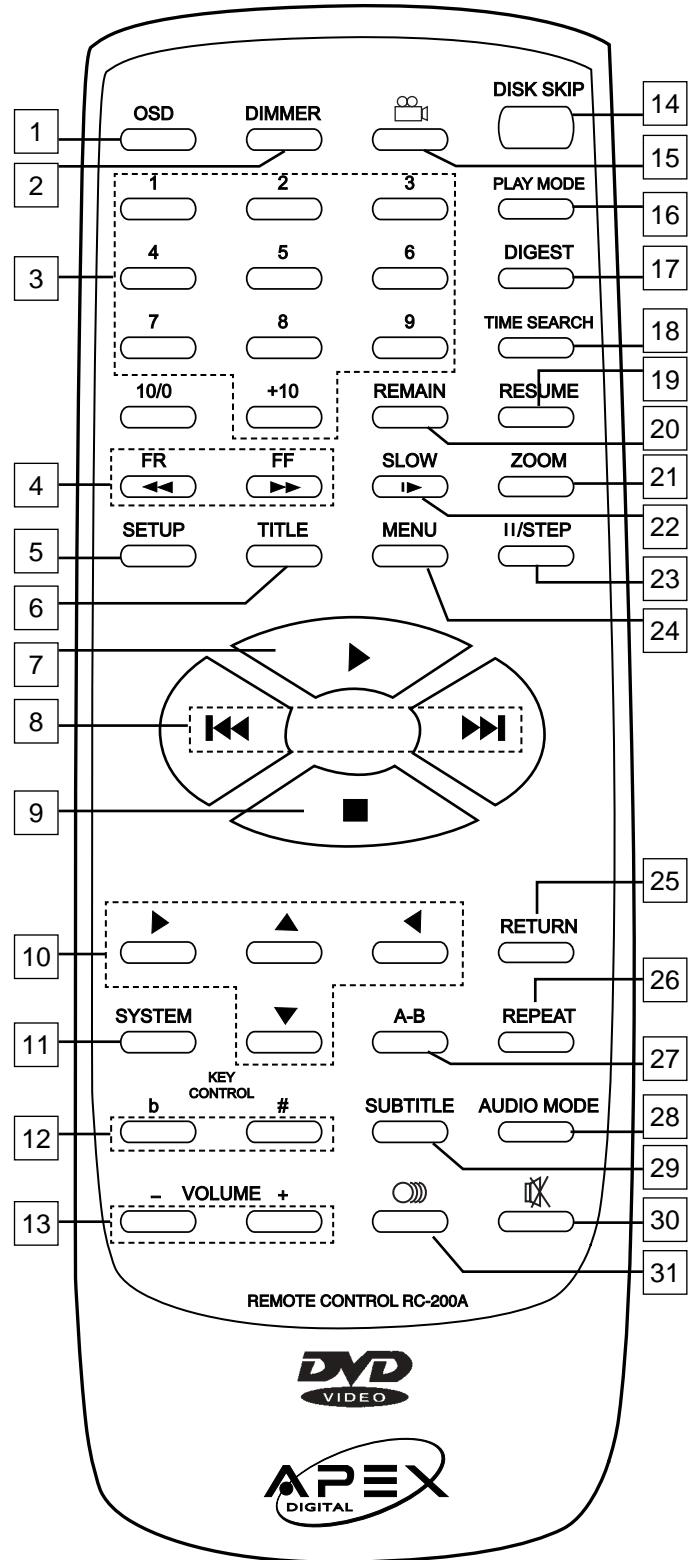
Remote Control

THE INSTRUCTIONS IN THIS MANUAL DESCRIBE THE FUNCTIONS ON THE REMOTE CONTROL.

- | | |
|---|--|
| 1. OSD | 17. DIGEST |
| 2. DIMMER | 18. TIME SEARCH |
| 3. NUMBER BUTTONS | 19. RESUME |
| 4. SEARCH | 20. REMAIN |
| 5. SETUP | 21. ZOOM |
| 6. TITLE | 22. SLOW PLAY |
| 7. PLAY | 23. PAUSE/STEP |
| 8. PREV/NEXT | 24. MENU |
| 9. STOP | 25. RETURN |
| 10. DIRECTIONS | 26. REPEAT |
| 11. SYSTEM | 27. A-B REPEAT |
| 12. KEY CONTROL | 28. AUDIO MODE |
| 13. VOLUME | 29. SUBTITLE |
| 14. DISK SKIP | 30. MUTE () |
| 15. ANGLE () | 31. LANGUAGE () |
| 16. PLAY MODE | |

Press **1**, **2** or **3** anytime on the front panel or on the remote control unit, you can switch the disc inside the 3 disc changer. 

Press EXCHANGE on the front panel, you can change the rest of two discs and it will not affect the disc that is currently playback. After you finish changing the two discs, press EXCHANGE again and the loader will close and store that two discs inside the 3 disc changer.



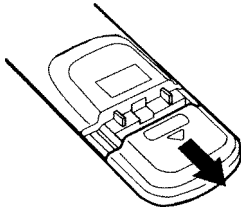
NOTICE

A few seconds is needed during switching the disc inside the 3 disc changer.

PREPARING THE REMOTE CONTROL

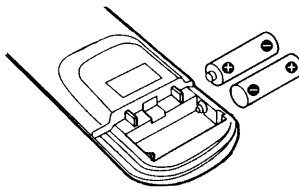
To operate the DVD video player, you must first place the batteries into the remote control.

1



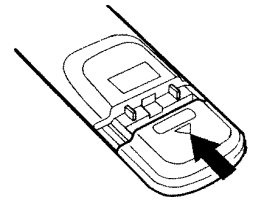
Open the battery cover.

2



Insert two batteries (AAA size).
Make sure to match the + and - on the batteries to the marks inside the battery compartment.

3

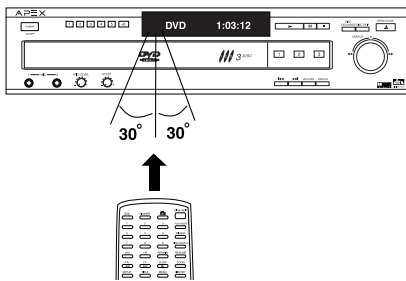


Close the battery cover.

OPERATING WITH THE REMOTE CONTROL

Operating DVD video player with the remote control.

1



The remote control must point at the remote sensor, in order for the DVD player to function correctly. Make sure there is no barrier between them.

Distance: Maximum of 5 m from the front of the remote sensor.

Angle: Approximately 30° from each direction.

**Please do not place the remote sensor towards any light source such as direct sunlight or illumination. The DVD video player will malfunction, if you do so.*

NOTICE (BATTERIES)

FOLLOW INSTRUCTIONS BELOW BECAUSE INCORRECT USE OF BATTERIES MIGHT CAUSE THEM TO LEAK OR CORRODE.

- Do not place the batteries in the wrong direction.
- It is dangerous to charge/heat/open or short-circuit the batteries.
- Do not leave dead batteries or mix old/new batteries in the remote control.
- When not using the remote control for a long duration of time, remove the batteries.
- When difficulties occur, with the remote control, or if the operating range becomes reduced, then replace the batteries.
- If leakage from the battery occurs, wipe the battery liquid from the battery compartment, then replace the batteries.
- With normal usage the batteries should last one year.

NOTICE (REMOTE CONTROL)

- The remote control should be aimed directly towards the remote sensor of the DVD video player.
- Avoid dropping the remote control.
- Avoid spilling any liquids and/or extreme heat.

Connecting to a TV using a RF Modulator

Note: Not all RF Modulators are compatible with APEX Digital players. Please see our website for recommendations.

Many older televisions do not have the newer component-video, composite-video, or s-video connections that optimize DVD technology. While it would be advised to purchase a newer television in order to take full advantage of the digital quality of DVD's, it is possible to connect an older television to a DVD player. This connection requires a device called an RF modulator.

First, it is necessary to ascertain whether or not your TV needs a RF modulator. Look at the back of your TV. If you see three input connectors lined up in a row, in the colors of yellow, red, and white, then you will not need an RF modulator. If you see a connector labeled "s-video", then you will not need an RF modulator. If you do not have either of these connectors, then you will need to purchase an RF modulator from the store where you purchased your Apex Digital DVD player or other home electronics retailers.

Older televisions use a coaxial connection, which combines all of the video signal from an exterior source into a single line. This line is then translated by your TV into the picture you see. The RF modulator combines the output signals from the DVD player, or any other device, into the coaxial connection for use by your television.

Below are written and pictorial instructions on the proper way to connect an RF modulator to your Apex DVD player and your TV.

Connection 1

Connecting the TV to the DVD through the VCR

Note: Many VCRs will distort the picture of a DVD player. This is NOT a malfunction of the DVD player or VCR. All DVD manufacturers are required to install macrovision copyright circuitry to prevent copying via VCR. This is what causes the distortion.

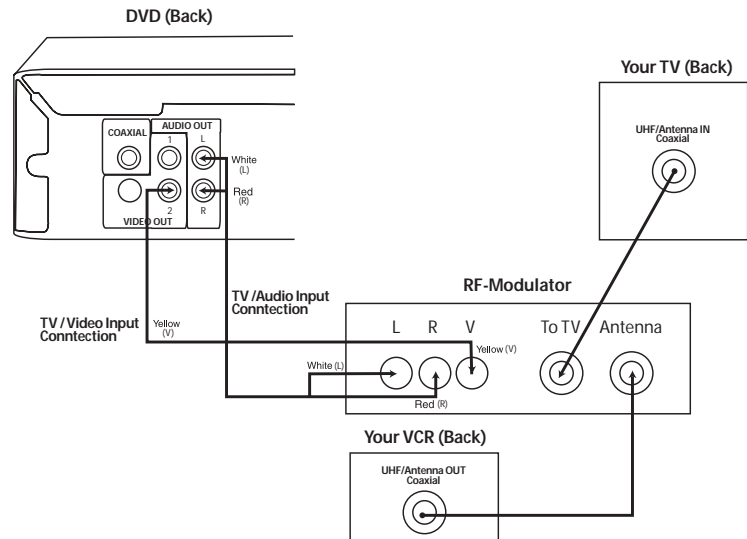
1) Connect the three-terminal composite video cable to the back of your Apex DVD player. This cable has three prongs, one each in yellow, red, and white. The yellow prong will go into the jack labeled "Video Out"; the white prong will go into the jack labeled "Front-L"; the red prong will go into the jack labeled "Front-R".

2) Connect the opposite end of the composite-video cable into the back of the RF modulator. Make sure to match up the colors correctly.

3) Connect a coaxial cable from the "Antenna Out" jack on the back of your VCR to the "Antenna" jack on the RF modulator. The coaxial cable is the one-wire, metal-ended type that you screw onto the VCR.

4) Connect a coaxial cable from the "To TV" jack on the RF modulator to the jack on the back of your TV.

Figure 1



5) Make sure your TV is set to the appropriate channel before using your DVD player. In most cases, this is channel 3 or 4.

Connection 2

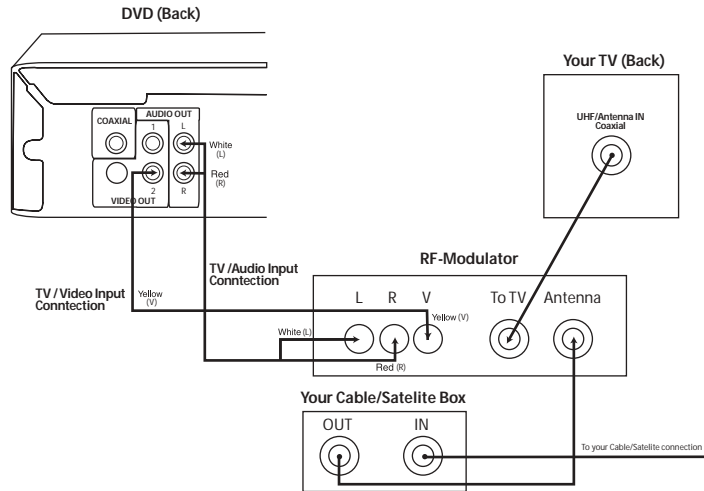
Connecting the TV to the DVD through the Cable or Satellite Box

Figure 2

1) Connect the three-terminal composite video cable to the back of your Apex DVD player. This cable has three prongs, one each in yellow, red, and white. The yellow prong will go into the jack labeled "Video Out"; the white prong will go into the jack labeled "Front-L"; the red prong will go into the jack labeled "Front-R".

2) Connect the opposite end of the composite-video cable into the back of the RF modulator. Make sure to match up the colors correctly.

3) Connect a coaxial cable from the "Antenna Out" jack on the back of your Cable or Satellite receiver to the "Antenna" jack on the RF modulator. The coaxial cable is the one-wire, metal-ended type that you screw onto the VCR.



4) Connect a coaxial cable from the "To TV" jack on the RF modulator to the jack on the back of your TV.

5) Make sure your TV is set to the appropriate channel before using your DVD player. In most cases, this is channel 3 or 4.

Connection 3

Connecting the TV , DVD, VCR, and Cable or Satellite Box

Figure 3

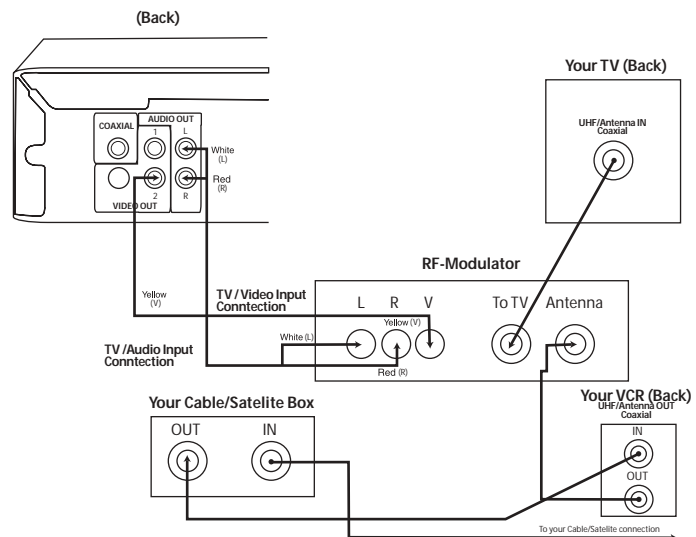
1) Connect the three-terminal composite video cable to the back of your Apex DVD player. This cable has three prongs, one each in yellow, red, and white. The yellow prong will go into the jack labeled "Video Out"; the white prong will go into the jack labeled "Front-L"; the red prong will go into the jack labeled "Front-R".

2) Connect the opposite end of the composite-video cable into the back of the RF modulator. Make sure to match up the colors correctly.

3) Connect a coaxial cable from the "Antenna Out" jack on the back of your cable or satellite receiver to the "Antenna In" jack on the back of your VCR. The coaxial cable is the one-wire, metal-ended type that you screw onto the VCR.

4) Connect a coaxial cable from the "Antenna Out" jack on the back of your VCR to the "Antenna" jack on the RF modulator.

5) Connect a coaxial cable from the "To TV" jack



on the RF modulator to the jack on the back of your TV.

6) Make sure your TV is set to the appropriate channel before using your DVD player. In most cases, this is channel 3 or 4. Also make sure

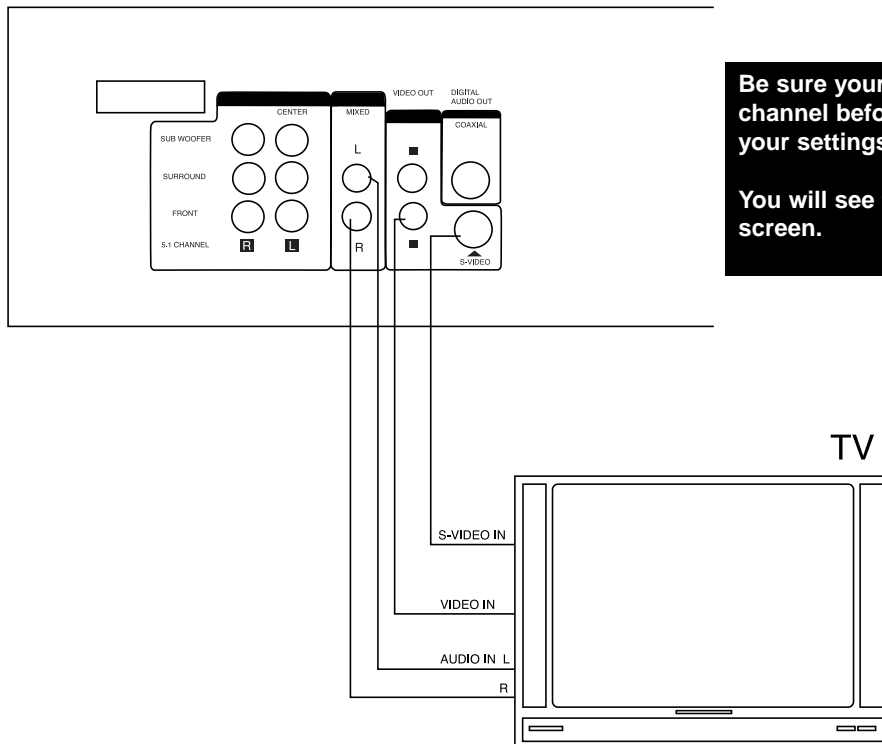
that the VCR is set to the appropriate channel, as well. This selector is usually on the back of your VCR. Consult your VCR manual for further information.

Preparation Before Operation

CONNECTIONS

Before preparing this unit for operation, make sure all equipments are turned off. The unit has several types of output modes like A/V output, S-VIDEO output, digital signal output (COAXIAL). You may select as needed.

CONNECTED TO A TV



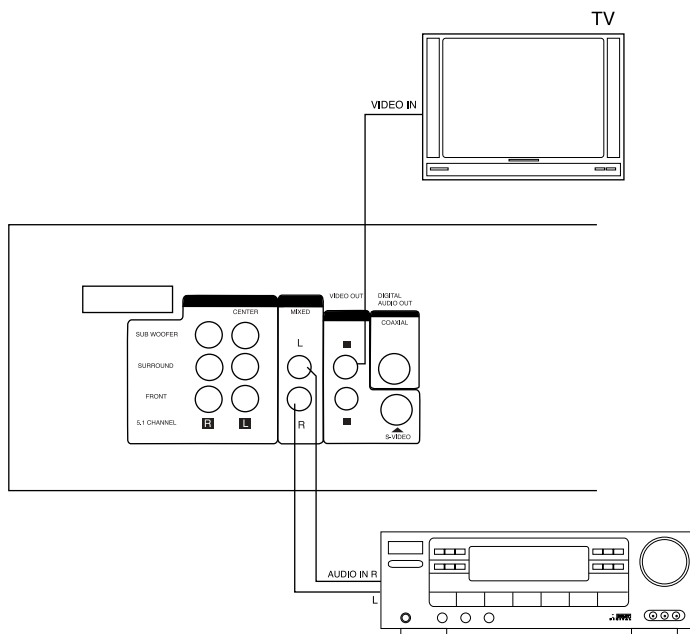
Be sure your TV is on the Video Input channel before you press Setup to select your settings.

You will see the Setup menu on your TV screen.

1. If the TV has S-VIDEO input, please connect the unit and the TV with S-VIDEO cord (not supplied). You do not have to connect it to VIDEO. S-VIDEO will ensure clearer image.
2. You have to set the unit according to the TV to be connected.
 - If the system of the TV is PAL, push SYSTEM and select PAL.
 - If the system of the TV is NTSC, push SYSTEM and select NTSC. (NTSC is American standard.)
 - If the system of the TV is AUTO (multi-system), push SYSTEM and select AUTO.
 - Connect the unit to a wide-screen TV. Set the "TV DISPLAY" to "16:9 WIDE" in the function setting column.
 - Connect the unit to an ordinary TV. Set the "TV DISPLAY" to "4:3/PS" or "4:3/LB" in the function setting column.

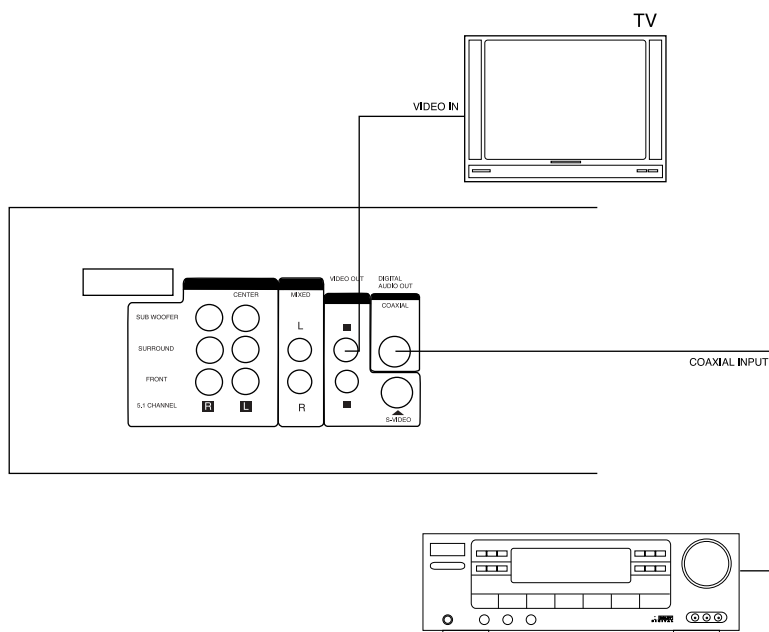
Preparation Before Operation

CONNECTED TO AN ORDINARY AMPLIFIER



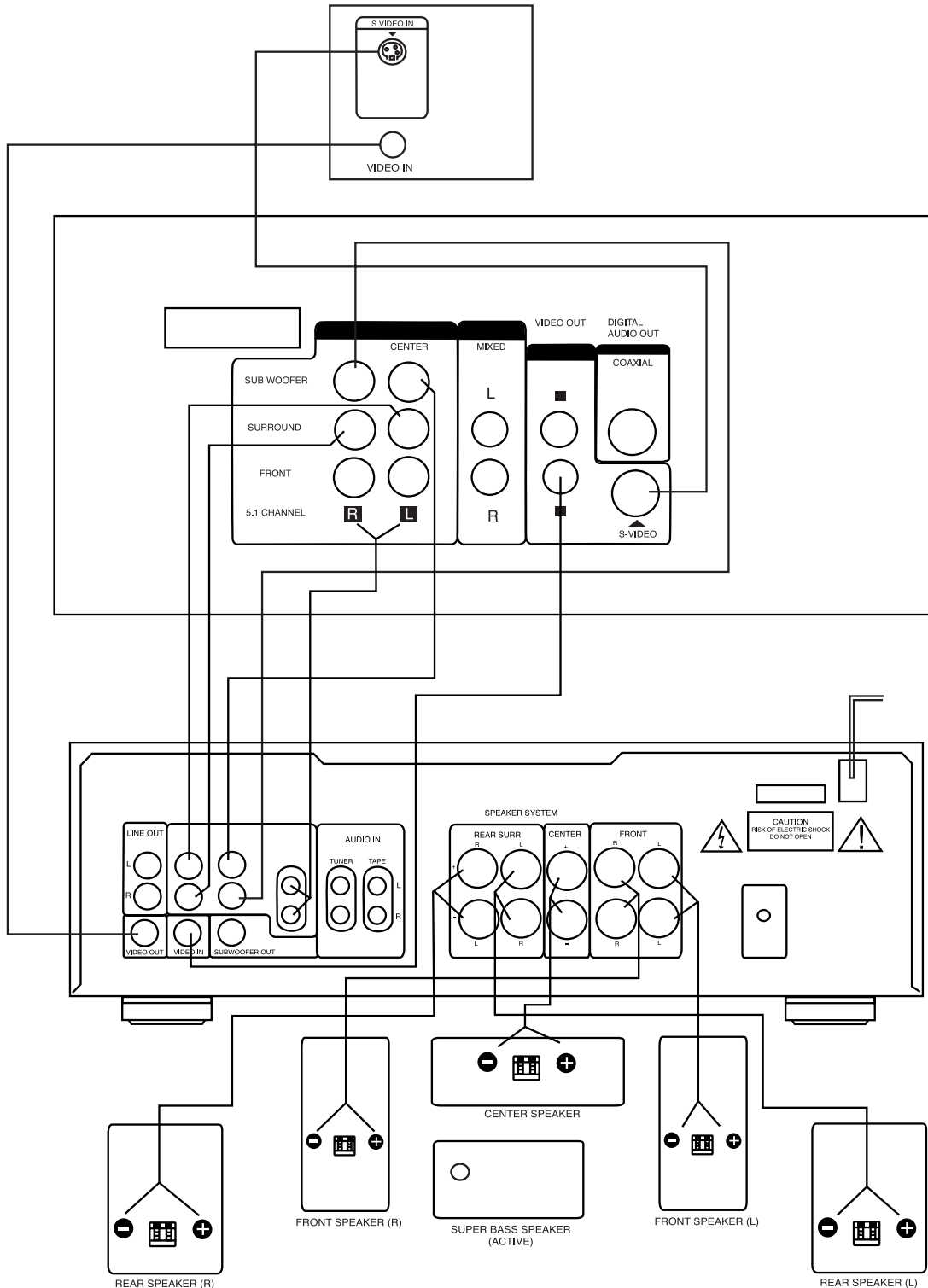
- This connection is for Analog Audio only.

CONNECTED TO A RECEIVER WITH DOLBY DIGITAL/DTS DECODER



Preparation Before Operation

CONNECT TO A RECEIVER WITH 5.1 CHANNEL SURROUND SOUND



Preparation Before Operation

CONNECT TO A RECEIVER WITH 5.1 CHANNEL SURROUND SOUND

1. Some discs with Dolby or MPEG AUDIO recorded 5.1 channel track. When connecting a receiver with 5.1 channel input terminal and 5.1 speaker, you can enjoy more realized sound effects at home.

“5 channel” means 2 front speakers (L/R), 2 rear speakers (L/R) and a center speaker. 0.1 means bass speaker output. Even if there are no 5.1 speakers, the unit will output signals to each speaker.

Note:

- A DVD disc with MPEG AUDIO format recorded 7.1 channel soundtrack, the output signal will be incorporated to 5.1 channel.
- When using 5.1 Channel Audio Output, set the SPDIF Output to SPDIF/RAW.

2. SPEAKER SETUP

To obtain perfect surround sound, the following is recommended:

- a) Use high quality speakers.
- b) Use rear and center speakers to match with front speakers (in size and performance).
- c) Same distance between all speakers, between two front speakers and the listening location.
- d) If possible, set the bass speakers between two front speakers (L/R).

Note: Distance between center speakers and listening location, and distance between rear speakers and listening location should be shorter than the distance between front speakers and listening location.

NOTICE

- When enjoying karaoke, connect fixed Audio out to L/R jack of 5.1 channel AMP.
- Do not insert the power cord to outlet or switch POWER button before finishing connections.

What is MP3 and VCD?

WHAT IS MP3?

MP3 is a compression form (like zip). The name MP3 stand for Mpeg1 Audio layer 3 and its compression algorithm is based on a complicated psycho-acoustic model. This model is based on the fact that the human ear can not hear all the audio frequencies. The human hearing range is between 20Hz to 20kHz and it is most sensitive between 2 to 4 kHz. As a result the MP3 compression form is destructive, that means the compression algorithm causes the file to lose some information so that it can not be restored to its original content.

When compressing an audio file (encoding) using the MP3 algorithm you can set the desired encoding level and have any compression level you want. The larger the compressed file the better the audio quality of the result. The majority of the files available on the internet are encoded in 128 kbits stereo 44kHz which results in a high quality file that is 12 times smaller than the original! This, of course, has many interesting consequences.

WHAT IS VCD?

Size and shape of any regular music CD with the same digital audio, plus good video capability. It is a new video format that offers exceptional high-end digital picture quality and smoothness, over an hour of playing time, full CD-quality, stereo sound, and more. Using MPEG (Motion Picture Expert Group) compression (1:30), VCD's offer picture quality that is far superior to the Quicktime movies you see on standard VHS tape.

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.

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, and rent copyrighted material without permission. DVD video discs are copy protected, and any recordings made from these discs will be distorted.

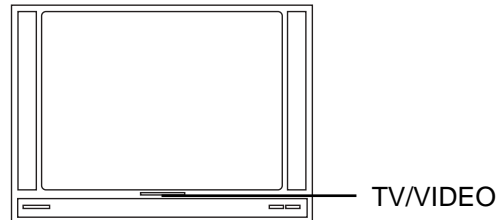
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"DTS" and "DTS Digital Out" are trademarks of Digital Theater System, Inc.

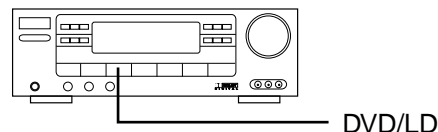
TV/AUDIO SELECTION

Press **POWER** on the TV and audio system.

1. Press "TV/VIDEO" on the TV, select VIDEO mode (TV).
 - Select S-VIDEO mode to connect to S-VIDEO (if available).






2. Select the correct audio input on the receiver.
 - Each receiver is different from another, please refer to the manual of the receiver. (e.g., connect the audio output of the DVD to audio input of the receiver.)



Note: This step can be cancelled if you do not connect it to the receiver.

PLAY DISCS

1. Press the POWER button to turn on the unit.
2. Press  to open the disc tray and load a disc with the label side up.
3. Press  again to close the disc tray. The unit begins to read the disc.
4. Press  to play the disc.

After step 4 is finished:


- **PLAY DVD**


The TV Screen shows DVD menu and title menu.

- **PLAY SUPER-VCD, VCD 2.0**

The TV Screen shows the menu, the unit enters PBC status.

- **PLAY CD, VCD 1.1**

Press  , the unit plays the disc according to the track numbers.

5. Press  to stop playback.
 - You have to push this button twice to stop the playback properly.
6. Remove the disc and power off the unit.

Basic Operations

SYSTEM SETTING

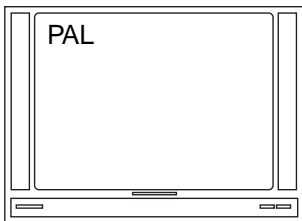
According to the system of the TV to be connected, set the system of the unit to make it match the TV.

1. If the system of the TV is PAL:

Press SYSTEM and select PAL.



The screen shows:

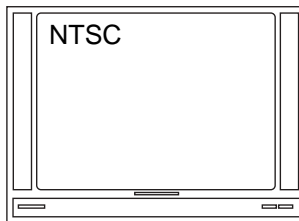


2. If the system of the TV is NTSC:

Press SYSTEM and select NTSC.



The screen shows:

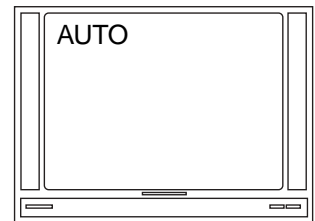


3. If the system of the TV is multi-system:

Press SYSTEM and select AUTO.



The screen shows:



Note: SYSTEM button works only with DVD, SUPER-VCD and VCD discs.

PAUSE

Press STEP.

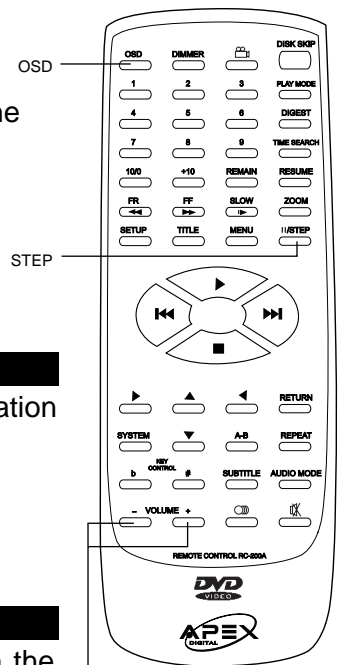


• When playing pictures:

If the pictures of DVD and VCD are played, press STEP to make playback pause. The unit enters step play status. Press STEP again, the unit plays a frame forward.

• When playing music CD:

Press STEP to make playback pause. Press STEP again to resume playback.



OSD

When the unit is operated, the TV screen shows the operation functions and information about the disc.

Press OSD to select.



VOLUME CONTROL

Press VOLUME on the TV or amplifier to adjust the volume or press VOLUME on the remote control.

1. Press + to raise the volume.
2. Press - to lower the volume.



Note: Volume control will not be available on Digital Audio output (SPDIF/RAW or SPDIF/PCM).

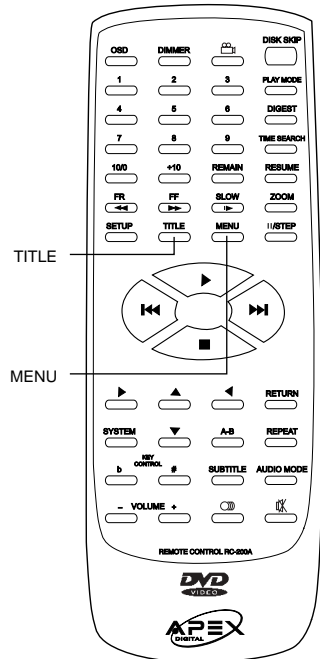
Basic Operations

DVD MENU PLAY

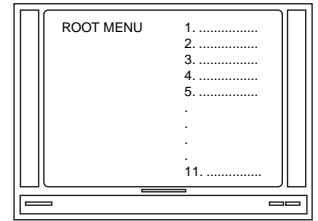
Some DVDs have title menus and chapter menus.

Press **▶**, the screen shows the menu.

Press **▶▶** or **◀◀** to see the next page, select with number buttons and direction buttons.

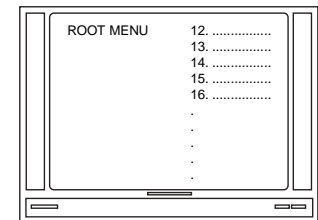
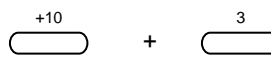


1. Press **▶▶** to enter the next menu.



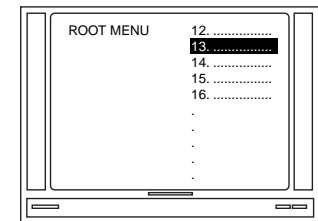
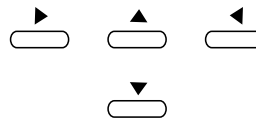
2. Press number buttons to select directly.

Example: select track 13.



You can also do as follows:

1. Press **▼** to select track 13.



Press **TITLE** once to return to the title menu; press it again to return to the current playback.



Press **MENU** once to return to the root menu; press it again to return to the current playback.



PBC PLAY (PBC - PLAY BACK CONTROL)

When playing a SUPER-VCD, VCD 2.0, you can enjoy the basic interactive function.

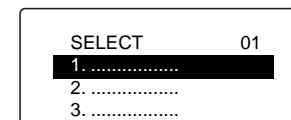
Example: VCD 2.0

1. Press **▶**, the screen shows the home menu.

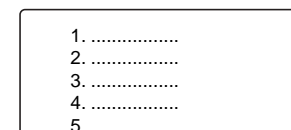
2. Press number buttons to select.

Example: select home menu 1. 


3. The screen shows the sub-menu after the unit enters home menu 1.

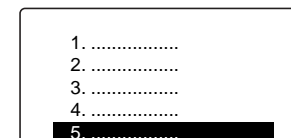


4. Press **▶▶** or **◀◀** to see the previous or next page.



5. Press number buttons to select sub-menus.

Example: Press number button 5, the unit plays track. 



6. Press **RETURN** to return to the sub-menu, press it again to return to the home menu.

Basic Operations

SELECT WITH NUMBER BUTTONS

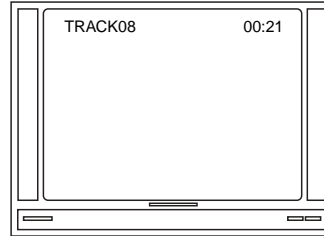
Load a disc. Press number buttons to select tracks after the unit finishes reading the disc.

1. If the track number is less than 10, just push buttons 1-10.

Example: push 8 to select track 8.



The screen shows:

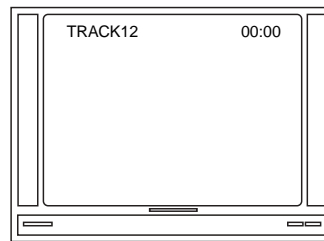


2. If the track number is over 10, press +10 once and a button among 1-10.

Example: if you select track 12, press +10 once and button 2.



The screen shows:

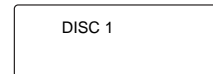


SELECT DISC

1. Press 1, the unit selects disc 1 to play.



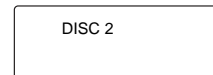
The screen shows:



2. Press 2, the unit selects disc 2 to play.



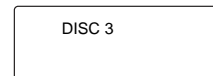
The screen shows:



3. Press 3, the unit selects disc 3 to play.



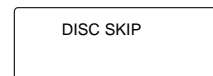
The screen shows:



4. Press DISC SKIP, the unit selects next disc to play.
Press the button again, the unit selects the discs circularly.



The screen shows:



EXCHANGE DISCS

1. Press EXCHANGE to open the disc tray
2. Unload the disc and load another one.
3. Press EXCHANGE again to close the disc tray.



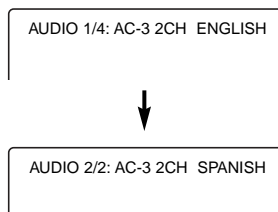
Play Discs in Various Ways

AUDIO MODE

You may select a needed language from a multi-language DVD and SUPER-VCD.
 You may select the right channel, left channel, or stereo from a multi-channel CD or VCD.

WHEN PLAYING DVD

Press , the screen shows orderly:

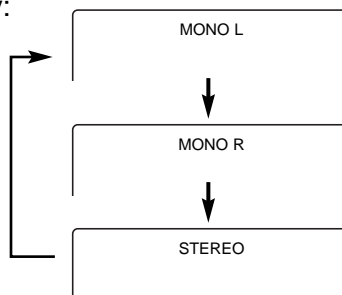
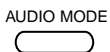


Different discs differ in languages.

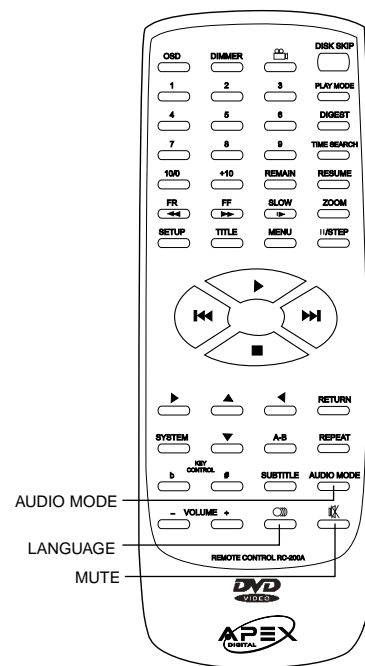
- 1 AUDIO 1/4: MPEG 2CH ENGLISH
- 2 AUDIO 2/4: MPEG 2CH SPANISH
- 3 AUDIO 3/4: MPEG 2CH FRENCH
- 4 AUDIO 4/4: MPEG 2CH CHINESE

WHEN PLAYING VCD OR CD

Press AUDIO MODE, the screen shows orderly:



You may select one mode.



NOTICE

- Different discs differ in language.
- As to a two-language function VCD, you may push AUDIO MODE to select a needed language.
- AUDIO MODE works when playing a SUPER-VCD, you may select mono channel (left or right) or stereo.

MUTE

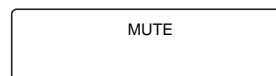
When playing a disc, this function can remove the sound.

1. REMOVE SOUND

Press MUTE, the screen shows "MUTE".

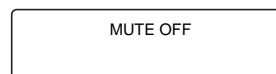


The screen shows:



2. RESUME SOUND

Press MUTE again, the screen shows "MUTE OFF".



FAST PLAY

When playing a disc, you may play it forward fast or reverse it fast to find what you need.

WHEN PLAYING DVD

1. Press ►► to play forward fast.
Each time you press the button, the screen shows orderly:



2. Press ◀◀ to reverse the disc fast.
Each time you press the button, the screen shows orderly:



3. Press ► to switch to normal play while FF or FR playing.

WHEN PLAYING SUPER-VCD OR VCD

1. Press ►► to play forward fast.
Each time you press the button, the screen shows orderly:



2. Press ◀◀ to reverse the disc fast.
Each time you press the button, the screen shows orderly:



3. Press ► to switch to normal play while FF or FR playing.

WHEN PLAYING CD

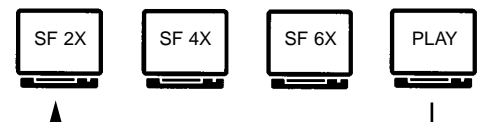
1. Press ►► to play forward fast.
2. Press ◀◀ to reverse the disc fast.
3. Release ►► or ◀◀ to play normally.

SLOW PLAY

Enjoy slow motions by the following steps.

WHEN PLAYING DVD

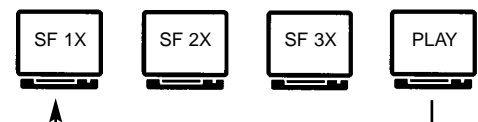
1. Press ► to play slowly.
Each time you press the button, the screen shows orderly:



2. Press ► to play normally.

WHEN PLAYING SUPER-VCD OR VCD

1. Press ► to play slowly. The unit has three steps for slow play.
Each time you press the button, the screen shows orderly:



2. Press ► to play normally.

REPEAT PLAY

This function can be used to repeatedly play a title, chapter, track, disc or some part on a disc.

WHEN PLAYING DVD

You may repeat a title or chapter.

1. Repeat a chapter

Press REPEAT, the screen shows:



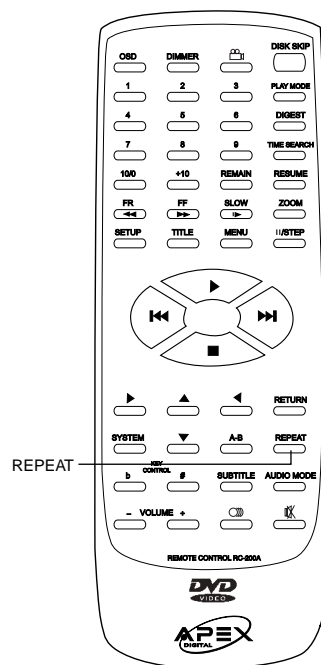
2. Repeat a title

Press REPEAT, the screen shows:



3. Remove "REPEAT" function

Press REPEAT, the screen doesn't show character referring to REPEAT.



WHEN PLAYING SUPER-VCD, VCD, CD

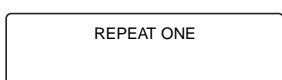
You may repeat a track, a disc according to the following steps.

VCD 1.1 and CD can play repeatedly directly. Super VCD and VCD 2.0 can play repeatedly in PBC OFF mode.

After the unit stops, press number buttons directly to select tracks.

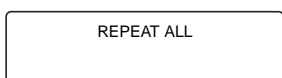
1. Repeat a track

Press REPEAT, the screen shows "REPEAT ONE". The unit plays the current track.



2. Repeat a disk

Press REPEAT, the screen shows "REPEAT ALL". The unit plays all the tracks on the disc.



3. Remove "REPEAT" function

Press REPEAT until "REPEAT OFF" display on TV screen.



REPEAT SOME PARTS

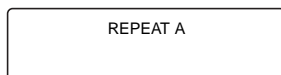
You may press A-B to enjoy some parts repeatedly when playing a disc.

WHEN PLAYING SUPER-VCD, VCD, CD

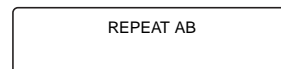
1. Set a starting point A by pressing A-B.



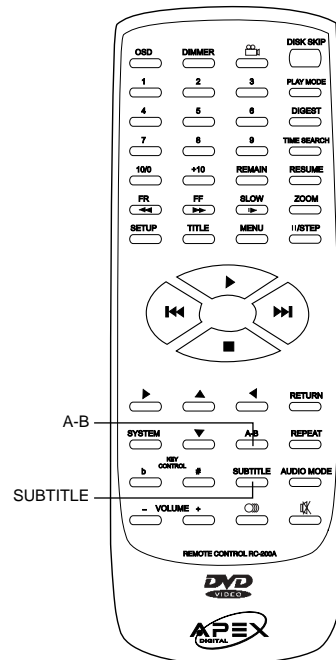
The screen shows:



2. Set an ending point B by pressing A-B again. Afterwards, the unit plays from point A to point B.



3. Press REPEAT until "REPEAT AB" disappeared to cancel this function.



SELECT SUBTITLES

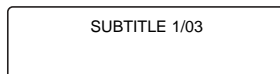
When playing a multi-subtitle DVD or SUPER-VCD, you may select one subtitle to show it on the screen.

WHEN PLAYING DVD

1. Press SUBTITLE to select one.



The screen shows:



2. Remove the subtitle

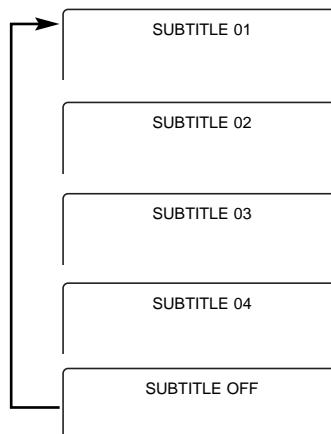
Press SUBTITLE until the screen shows "SUBTITLE OFF".

NOTICE

- For some discs, subtitles can not be removed.
- Different discs differ in the language of subtitles.
- If the subtitles of discs can not be selected, press SUBTITLE, the screen shows "NO SUBTITLE".

WHEN PLAYING SUPER-VCD

A super-VCD has only four channels for recording, so it has four subtitles at the most. Press SUBTITLE, the screen shows orderly:



You may select a subtitle as you need. Some discs may not have "SUBTITLE OFF" function.

SELECT ANGLES

Some discs have images with different screen angles, you may select among them. For example, when you watch a running train, you may watch it from the front, the left window or the right window without stopping it.

Example: A DVD has four screen angles at your option.

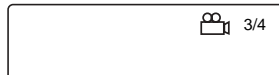
1. Press  to select ANGLE 1.




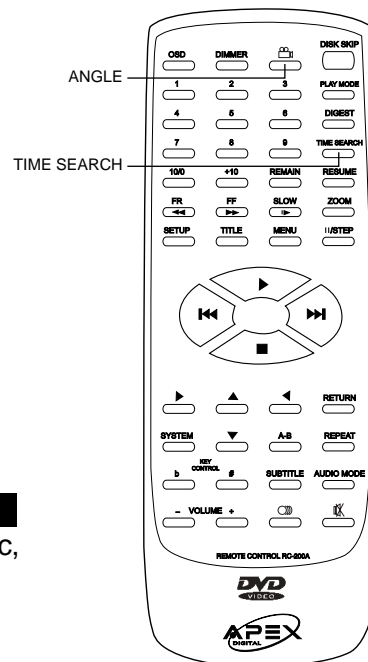
The screen shows:



2. Press  to select other angles, the screen shows respectively:



3. To resume normal playback, press  until there is no display on the screen.



TIME SEARCH

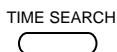
You may directly enter a time, title or chapter number to search fast on a disc, the unit plays from that point.

WHEN PLAYING DVD

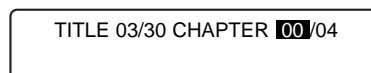
1. Search a title or a chapter

Example: Search chapter 2 in title 6.

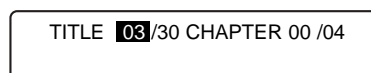
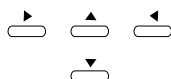
• Press TIME SEARCH.



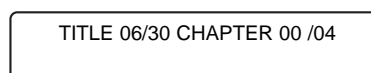
The screen shows:



• Press the left or right button and move the cursor to illuminate the title number.



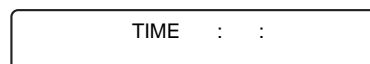
• Press button 6 to select title 6.



• Repeat the steps above, then select chapter 2 in title 6.

2. Time Search

• Press TIME SEARCH until the screen shows:



• Press number buttons to enter hour, minute, and second.

Example: Enter 0, 1, 0, 2, 3, 8.

After the setting, the disc is displayed from 01:02:38.

• Press OSD button to remove text from the screen.

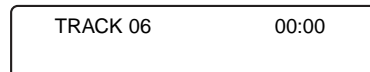
WHEN PLAYING SUPER-VCD, VCD, CD

To jump to a specific time, use TIME SEARCH to set the time for the desired location.

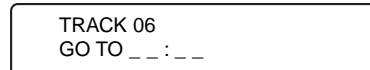
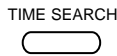
Example: Play from 00:01:38 of track 6.

1. Press button 6 to select track 6.

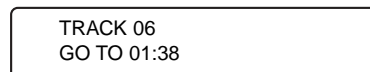
The screen shows:



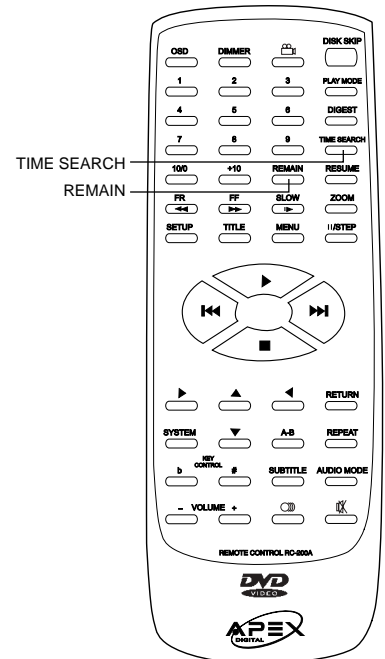
2. Press TIME SEARCH.



3. Press button 0, 1, 3, 8 to enter the time.



- The unit plays from 00:01:38 of track 6 after setting.
- Press **0/10** to enter 0.

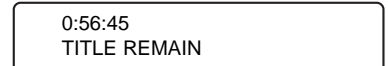


REMAINING TIME

This function can be used to know the remaining time of a title, chapter, track or disc.

WHEN PLAYING DVD

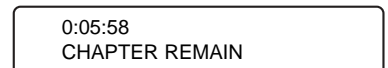
1. Press REMAIN, the screen shows the remaining time of the title.



2. Press REMAIN again, the screen shows time of the chapter.



3. Press REMAIN third time, the screen shows the remaining time of the chapter.

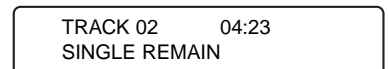


4. Press REMAIN fourth time, the screen resumes to normal play mode.

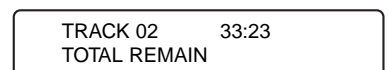
WHEN PLAYING SUPER-VCD, VCD, CD

Example: Check the remaining time when playing track 2.

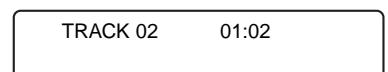
1. Press REMAIN, the screen shows the remaining time of the track.



2. Press REMAIN again, the screen shows the remaining time of the disc.




3. Press REMAIN once more, the screen shows the previous playing time.



RESUME PLAY

The unit can memorize the last point where it stops and resumes playback from there.

1. Press  to stop playing.

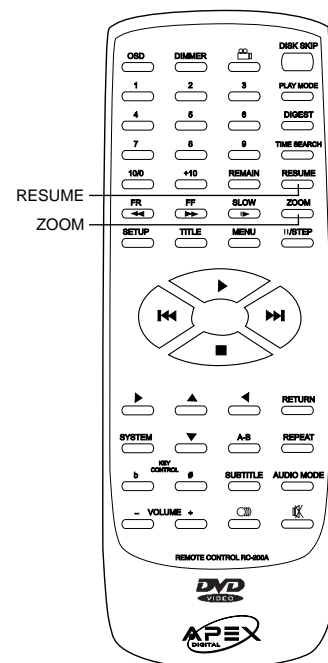


2. Press RESUME to resume playback.



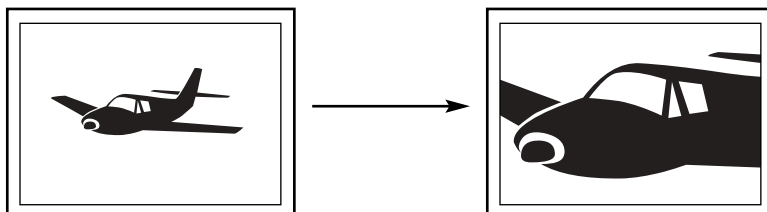
Notes:

1. This function can not work in SHUFFLE mode.
2. The recorded location is erased when the disc is changed or when the power is turned off.



ZOOMING A PICTURE

This function can be used to watch a motion or motionless picture.



WHEN PLAYING DVD, SUPER-VCD, VCD

1. Press ZOOM.







The picture is enlarged two times.

2. Press ZOOM again.



The picture is enlarged four times as big.

3. Press  /  /  /  to shift the enlarged picture.

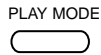
4. To resume the picture, push ZOOM until the screen shows "ZOOM OFF".

PROGRAM PLAY

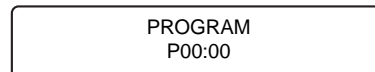
You may program the tracks on a disc and play them in the programmed order.

WHEN PLAYING DVD, SUPER-VCD, VCD, CD

1. After the unit stops, push PLAY MODE to select.

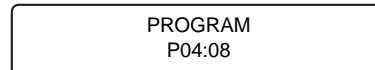
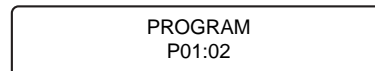


The screen shows:



2. Press number buttons orderly according to the titles (or chapters) to be programmed.

Example: Press 2, 4, 6, 8.



3. Press ► to start playing.

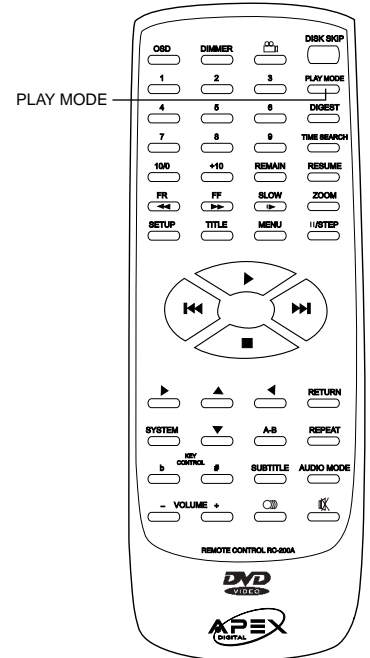


4. Press ■ twice to stop.



Notes: P * * : * *

└───┬───┬───┬───
 title (chapter) number
 program order

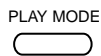


SHUFFLE PLAY

The unit can play by random orders. The order is different each time.

1. Press ■ to stop playing. (You need to push the button twice for a DVD.)

2. Press PLAY MODE to select a random order.



The screen shows:



3. Press ► to start shuffle play. The unit selects a track to play.



4. Press ■ twice to remove shuffle play.



DIGEST PLAY

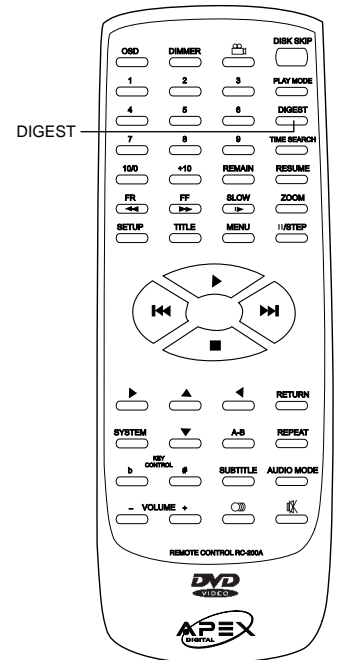
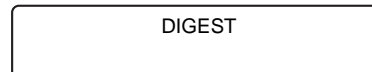
This function can be used to look through the content of the track or a disc.

WHEN PLAYING DVD

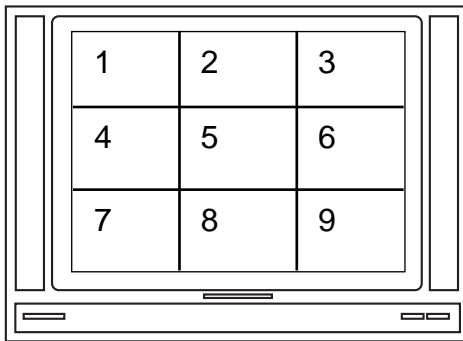
1. Press DIGEST after the unit stops.



The screen shows:



The unit begins to look through the titles (or chapters), and shows the starting pictures of each title (or chapter) on the screen.



Each page has nine pictures and their location may be different.

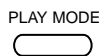
2. Press **⏮** or **⏭** to look at the previous or next page.

3. Press **■** twice to remove digest.

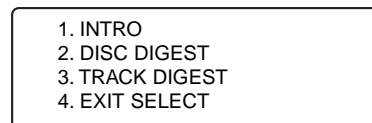


WHEN PLAYING SUPER-VCD

1. Press DIGEST after the unit stops.



The screen shows:



2. Press number buttons to select a digest mode.

- Press button 1 for INTRO.



The unit plays the first ten seconds of each track one after another.

- Press button 2 for DISC DIGEST.



The unit shows ten starting pictures of all the tracks on the screen simultaneously.

If the track number is more than 9, press **▶▶** to view the next page.
Press number buttons to select a track.

- Press button 3 for TRACK DIGEST.



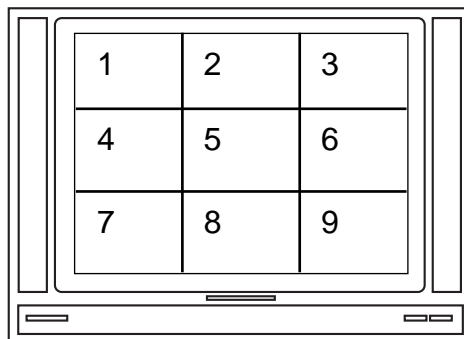
Press **▶▶** to select a track.

*Example: You may select **▶▶** to look through track 3.*

The screen shows:



The unit divides track 3 into nine parts and shows the starting pictures of each part on the screen.



- Press button 4 to exit from DIGEST PLAY.

3. Press **■** to remove DIGEST PLAY.

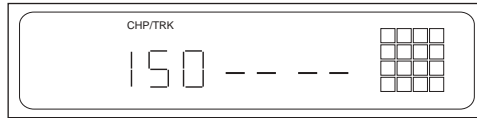


Notice: A CD only has "INTRO" function.

MP3 Operations

SELECT TRACKS WITH NUMBER BUTTONS

1. Load a disc according to the basic operations, the unit begins to read the disc and show the information on the screen.



2. Select a track number with number buttons.

- If the track number is less than 10, push number 1-10 directly.
- If the track number is over 10, push +10 and another number 1-10.

Example: Select track 105.



SELECT TRACKS WITH MENU

1. Load a disc, the screen shows the home menu after the unit finishes the search.

```
TOTAL 170
MP3 DISC
CONTINUE
MENU1
CD1  CD2
CD3  CD4
```

• If the menu is shown on different pages, the screen shows ◀◀ or ▶▶ to instruct you to look at the previous or next page.

2. Press ◀◀ or ▶▶ to select the content of the home menu.

Example: Select CD3.

```
TOTAL 170
MP3 DISC
CONTINUE
MENU1
CD1  CD2
CD3  CD4
```

3. Press ◀◀ or ▶▶ to select tracks according to the sub-menu.

Example: Select track 2 on CD3.

```
TRACK80      00:15
MENU2        CD3
01           02
03           04
05           06
07           08
```

The unit will play the tracks you selected a few seconds later.

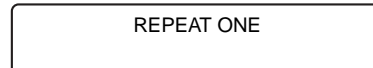
REPEAT PLAY

You may use repeat function to enjoy some track.

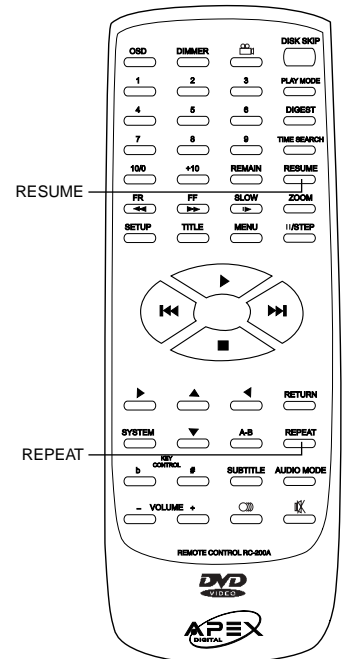
1. Select tracks to play.
2. Press REPEAT until the screen shows "REPEAT ONE"



The screen shows:



3. Remove repeat function.
Press REPEAT until the screen shows "CONTINUE".



RESUME PLAY

1. Press ■ to stop playback.
2. Press RESUME to return to the original track.



OTHER FUNCTIONS

When playing a MP3 disc, the unit has functions like mute, pitch control, pause, previous/next track, and channel selection. You may operate as you do with a CD.

WHEN CREATING MP3'S

When creating MP3's to play on your DVD player, be sure to change the Character Settings from **Joliett** to **ISO 9660** in your "CD Format" properties of you favorite CD-R burning software.

For those of you using Adaptec® Easy CD Creator® 3.5 or higher, be sure to change the **Mode Settings** from **Mode 2** to **Mode 1**.

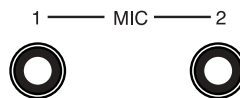
Note: The AD-703 DVD player will not play MP3 files on a CD-RW.

PLAY KARAOKE

1. Load a karaoke disc.
2. Set the microphone volume to the lowest level.



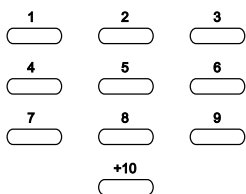
3. Insert the microphone into MIC 1 and MIC 2.



4. Switch on the microphone.
5. Turn knob "ECHO" to obtain the needed echo degree.




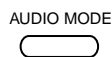
6. Press number buttons to select tracks.



Note: The microphone audio output is analog and will only produce audio from the Mixed Audio section of the audio output on the back of the DVD player.

7. Remove the lyrics and begin to sing.

- When playing a DVD or super-VCD, push  .
- When playing a VCD or a CD, push AUDIO MODE.




Select needed sound until the lyrics die away.


8. End karaoke play.
Set the microphone switch to "OFF", pull out the microphone.

KEY CONTROL

You may change the pitch to adapt to your voice.

1. Press # to raise the pitch. 

Each time you press the button, the pitch is raised by one step. It can be raised by 7 steps at the most.

2. Press b to lower the pitch. 

Each time you press the button, the pitch is lowered by one step. It can be lowered by 7 steps at the most.

Note: Karaoke function is for karaoke DVD and karaoke video CD only (no CD+G).

Function Settings

MENU SETTING

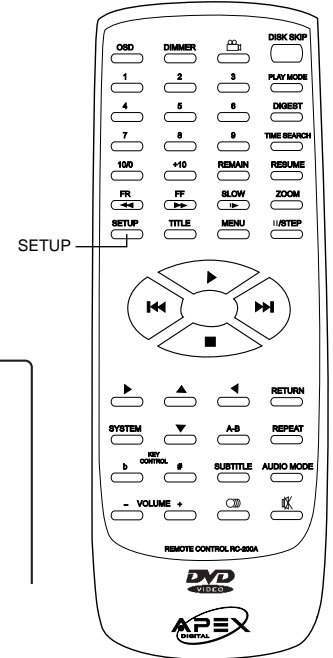
According to the recorded information and external equipment, set the following functions for the player to obtain the best playing status.

1. Press **SETUP** to set the main menu. The screen shows:



```

SETUP MENU -- MAIN PAGE
▶ GENERAL SETUP
▶ SPEAKER SETUP DOLBY
▶ DIGITAL SETUP
▶ PASSWORD SETUP
▶ PREFERENCES
EXIT SETUP
    
```



2. Press **▼** and **▲**, then press **▶** to confirm.

Example: Select "DOLBY DIGITAL SETUP"

• Press **▼** to select.

```

SETUP MENU -- MAIN PAGE
▶ GENERAL SETUP
▶ SPEAKER SETUP
▶ DOLBY DIGITAL SETUP
▶ PASSWORD SETUP
▶ PREFERENCES
EXIT SETUP
    
```

• Press **▶** to confirm and enter "DOLBY DIGITAL SETUP". The screen shows the submenu for your selection. After entering the menu, the unit automatically selects a column.

```

-- DOLBY DIGITAL SETUP PAGE --
COMPRESSION >> LINE OUT
DUAL MONO
DYNAMIC RNG
5.1 CHANNEL OUTPUT
▶ MAIN PAGE
    
```

• Press **▼** to select "DUAL MONO", the screen shows the content.

```

-- DOLBY DIGITAL SETUP PAGE --
COMPRESSION
DUAL MONO >> STEREO
DYNAMIC RNG LEFT MONO
5.1 CHANNEL OUTPUT RIGHT MONO
MIXED MONO
▶ MAIN PAGE
    
```

• Press **▶** and **▼** to select "LEFT MONO".

```

-- DOLBY DIGITAL SETUP PAGE --
COMPRESSION
DUAL MONO >> STEREO
DYNAMIC RNG LEFT MONO
5.1 CHANNEL OUTPUT RIGHT MONO
MIXED MONO
▶ MAIN PAGE
    
```

• Press **▶** to confirm.
Set "DUAL MONO" in "DOLBY DIGITAL SETUP" to "LEFT MONO".

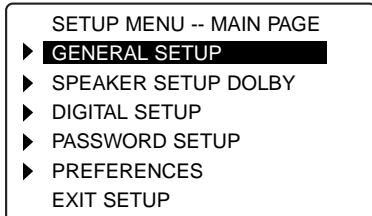
3. Exit from menu.

Press direction button and **▶** to select the relevant exit column.



- Press **▲** and **◀** to exit from “DUAL MONO”.
- Press **▼** to select “MAIN PAGE”, press **▶** to exit from the current column and return to the main menu.

The screen shows:



- Press **▲** and **▼** to exit from “EXIT SETUP” then press **▶** to exit from the menu.

The setting structure is as follows:

GENERAL SETUP

TV DISPLAY >>	4:3/PS 4:3/LB 16:9 WIDE
TV TYPE >>	PAL AUTO NTSC
ANGLE MARK >>	ON OFF
SPDIF OUTPUT >>	SPDIF OFF SPDIF/RAW SPDIF/PCM
CAPTIONS >>	ON OFF
SCREEN SAVER >>	ON OFF
MAIN PAGE	

MENU SETTING

TV DISPLAY

1. **4:3/PS**: Sets the television in normal aspect. **PS** stands for **PAN SCAN** which determines if the DVD movie is in either widescreen or Fullscreen format. Most DVD movies today are recorded in Widescreen format. This is selected when the unit is connected with a normal TV.

Wide-screen images are shown on the screen, but with some parts cut automatically.

2. **4:3/LB**: Sets the movie in Letter Box format.

This is selected when the unit is connected with a normal TV.

Wide-screen images are shown on the screen, with black belt on the top and bottom.

3. **16:9 WIDE**


This is selected when the unit is connected with a wide-screen TV.

TV TYPE

You may select according to the color system of the TV to be connected.

- Select "AUTO" for a multi-system TV.
- Select "NTSC" for a NTSC TV.
- Select "PAL" for a PAL TV.

ANGLE MARK

This only works when there is an angle mark () on the disc.

- Select "ON", the screen shows the mark when playing DVD and CD.
- Select "OFF", the mark is not shown.

SPDIF OUTPUT

- SPDIF OFF: No signal is output from the coaxial port.
- SPDIF/RAW: Select this when the DVD player is connected with a receiver through coaxial port. When a Dolby Digital disc, DTS disc or MPEG disc are played, the coaxial port will output in the corresponding digital (Source code) format. The receiver to be connected must have Dolby Digital, DTS and MPEG decoding processor.
- SPDIF/PCM: Select this when the DVD player is connected with a 2-channel digital mode or stereo receiver. When a Dolby Digital or MPEG disc is played, the coaxial port will output in PCM 2-channel format.

CAPTION

- ON
The hidden subtitle is shown.
- OFF
The hidden subtitle is turned off.

Terms:

- **PAL**: is the color system used by other countries. Some DVD movies or VCD movies are recorded in this format.
- **NTSC**: is the color system used in North America and which should be used to view most DVD movies.
- **AUTO**: is a setting that will detect the proper setting of the movie.

SCREEN SAVER

Start the screen saver, the screen saver image appears when the unit stops or the image is freezed for a few minutes. This saver can keep the screen from being damaged.

- ON: Start the screen saver.
- OFF: Remove the screen saver.

SPEAKER SETUP

FRONT SPEAKER >>	STEREO Lt/Rt STEREO VSPK
CENTER >>	ON OFF
REAR SPEAKER >>	ON OFF
BASS SPEAKER >>	ON OFF
CENTER DELAY >>	ON OFF
REAR DELAY >>	ON OFF

FRONT SPEAKER

Stereo Lt/Rt: If the disc being played has Dolby PRO LOGIC stereo sound, select this speaker, the disc signal will be decoded by the decoder system of the unit, product dynamic effect in your room.

CENTER SPEAKER

- ON: When center speaker is connected, there is signal output.
- OFF: No center speaker connected, no signal output.

REAR SPEAKER

- ON: When rear speaker is connected, there is signal output.
- OFF: No rear speaker connected, no signal output.

BASS SPEAKER

- ON: When bass speaker is connected, there is signal output.
- OFF: No bass speaker connected, no signal output.

SPEAKER SETUP

CENTER DELAY

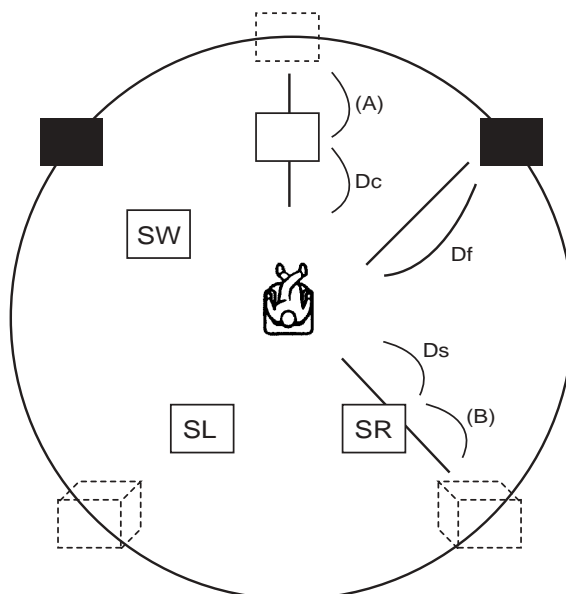
- 0 msec: When $D_f = D_c$
- 1 msec: When $B \approx 34$ cm
- 2 msec: When $B \approx 68$ cm
- 3 msec: When $B \approx 102$ cm

* $(A) = D_f - D_c$
 Delay time (0, 1, 2, ..., 5) equal A divided 34.

REAR DELAY

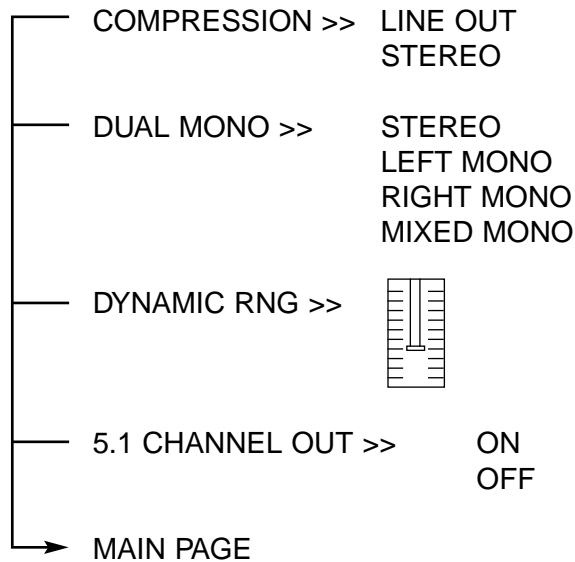
- 0 msec: When $D_f = D_c$
- 1 msec: When $B \approx 34$ cm
- 2 msec: When $B \approx 68$ cm
- 3 msec: When $B \approx 102$ cm

* $(B) = D_f - D_c$
 Delay time (0, 1, 2, ..., 5) equal B divided 34.



All speakers must be in circularly of $R = D_f$.

DOLBY DIGITAL SETUP



COMPRESSION

- LINE OUT: Compress input signals linearly.

DUAL MONO

This is the output mode of the L and R signals of the set audio output. If it is set to “MIXED MONO”, the function only works when the DVD being played is 5.1-channel.

DYNAMIC RNG

When the compression mode is set to “LINE OUT”, this is selected to adjust linear compression rate to obtain the different compression results of the signals.

5.1 CHANNEL OUTPUT

- ON: Switch 5.1 speakers on.
- OFF: Close the rear/center/super bass speakers.

Notes: When opening the 5.1 channels, SPDIF must be set to off.

PASSWORD SETUP

The setting structure is:

```
-- PASSWORD SETUP PAGE --  
PASSWORD >>          CHANGE  
PASSWORD MODE >>    ON  
                   OFF
```

PASSWORD MODE

- ON: The password works, "PREFERENCES" is dim and can not be selected.
- OFF: The password is locked. "PREFERENCES" can be selected.

PASSWORD CHANGE

Select this to adapt the code, the screen shows:

```
-- PASSWORD CHANGE PAGE --  
OLD PASSWORD  
NEW PASSWORD   
CONFIRM PASSWORD
```

Note: You must take all discs out of the player before accessing the Preference Setup Page.

Enter a password according to the screen.

Notes: The preset password is **99999**.

PREFERENCES

AUDIO >>	ENGLISH FRENCH SPANISH CHINESE JAPANESE
SUBTITLE >>	ENGLISH FRENCH SPANISH CHINESE JAPANESE OFF
DISC MENU >>	ENGLISH CHINESE FRENCH SPANISH JAPANESE

PREFERENCES

COUNTRY/REGION >>	CHINA FRANCE HONG KONG JAPAN TAIWAN GBR USA
PARENTAL >>	1. KID SAFE 2. G 3. PG 4. PG 13 5. 6. PG-R 7. NC-17
DEFAULTS >>	RESET

SELECT LANGUAGE

If a language mentioned above is recorded on the disc, you can select sounds, subtitles or disc menu language. If not, the language recorded on the disc is shown.

PARENTAL

When playing disc with parent lock function, you may select an age control grade according to grade of disc and your desire.

Example: Select "PG", you cannot play DVD discs rated higher than the PG grade.

DEFAULT>>RESET

Each function setting returns to the initial status in the factory if you select this.

Notes:

- "PREFERENCES" only can be selected in password OFF and the tray is open after the unit go into stop mode.
- PREFERENCES function works only with DVD discs.

Notes on Discs

HOW TO HANDLE, CLEAN, AND STORE DISCS.

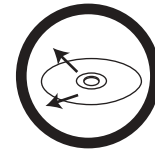
HANDLING DISCS

- Do not touch the playback side of the disc.
- Do not attach paper or tape to discs.



CLEANING DISCS

- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outward with a soft cloth. Always keep the disc clean.
- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as a thinner, benzene, commercially available cleaners or anti-static spray for vinyl LP's. It may damage the disc.



STORING DISCS

- Do not store discs in places subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

ABOUT THIS OWNER'S MANUAL

This owner's manual explains the basic instructions of this DVD video player. Some DVD video discs are produced in a manner that allows specific or limited operation during playback. As such, the DVD video player may not respond to all operating commands. Refer to instruction notes of disc.

PLAYABLE DISCS

This DVD video player can play back the following discs.

	Disk Mark	Contains	Disc Size	Maximum playback time
DVD video disc		Audio + Video (moving pictures)	12 cm	Approx. 2 hours (single sided disc)
				Approx. 4 hours (double sided disc)
			8 cm	Approx. 80 mins. (single sided disc)
				Approx. 160 mins. (double sided disc)
Super-VCD	Super-VCD	Audio + Video (moving pictures)	12 cm	Approx. 45 minutes
VIDEO CD		Audio + Video (moving pictures)	12 cm	Approx. 74 minutes
			8 cm	Approx. 20 minutes
Audio CD		Audio	12 cm	Approx. 74 minutes
			8 cm (CD single)	Approx. 20 minutes
MP3 CD	MP3	Audio	12 cm	Approx. 600+ minutes

NOTES ON REGIONAL NUMBERS

The region number of this DVD video player is 1. If region numbers, which stand for their playable area, are printed on your DVD video disc, make sure the disc plays region **1** or **ALL**. Otherwise playback will not be allowed by the player (In this case, the DVD video player will display the message.)

NOTES ON COPYRIGHT

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, and rent copyrighted material without permission.

DVD video discs are copy protected, and any recordings made from these discs will be distorted.

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 is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

TYPE OF TV SYSTEM

Connect this DVD video player to a TV compatible with PAL/3.58 NTSC system.

Specifications

DVD VIDEO PLAYER/OUTPUTS/SUPPLIED ACCESSORIES

DVD VIDEO PLAYER

Power supply	120V AC 50 or 60 Hz
Power consumption	20VA
Mass	3.3 kg
External dimensions	430 x 81 x 300 mm (W/H/D)
Signal system	MULTI/NTSC/PAL
Laser	Semiconductor laser, wavelength 650 nm

OUTPUTS

Video output	1.0 V (p-p), 75 Ω , negative sync., pin jack x 1
S video output	(Y) 1.0 V (p-p), 75 Ω negative sync., Mini DIN 4-pin x 1 (C) 0.286 V (p-p), 75 Ω
Component video output	(Y) 1.0 V (p-p), 75 Ω negative sync., pin jack x 1 (Cr)/(Cb) 0.7 V (p-p), 75 Ω
Audio output (digital audio)	0.5 V (p-p), 75 Ω , pin jack x 1
Audio output (analog audio)	2.0 V (rms), 330 Ω , pin jack(L,R) x 1

SUPPLIED ACCESSORIES

Audio cable (red and white)	1 pair
Remote control	1
Batteries (AAA)	2
Video cable (yellow)	1
S-Video cable	1
Power cord	1

Before Calling Service Personnel

Check the following guide for the possible cause of a problem before contacting service.

SYMPTOMS AND CORRECTION

Symptom	Cause	Correction
No power	<ul style="list-style-type: none"> The power plug is disconnected 	<ul style="list-style-type: none"> Connect the power plug into the wall outlet securely.
No picture	<ul style="list-style-type: none"> The TV is not set to receive DVD output The video cable is not connected securely 	<ul style="list-style-type: none"> Select the appropriate video input mode on the TV so the picture from the DVD video player appears on the TV screen. Connect the video cable into the jacks securely.
No sound	<ul style="list-style-type: none"> The equipment connected with the audio cable is not set to receive DVD signal output. The audio cables are not connected securely. The power of the equipment connected with the audio cable is turned off. The setting of output sound type is not correct. 	<ul style="list-style-type: none"> Select the correct input mode of the audio receiver so you can listen to the sound from the DVD video player. Connect the audio cable into the jacks securely. Turn on the equipment connected with the audio cable. Set the audio setting correctly.
The playback picture has occasional distortion	<ul style="list-style-type: none"> The disc is dirty. It is in fast forward reverse playback. 	<ul style="list-style-type: none"> Eject the disc and clean it. Sometimes a small amount of picture distortion may appear. This is not malfunction.
Brightness is unstable or noises are produced on playback pictures	<ul style="list-style-type: none"> The copy protection's effect. 	<ul style="list-style-type: none"> Connect the DVD video player to the TV directly.
The DVD video player does not start playback	<ul style="list-style-type: none"> No disc is inserted. An unplayable disc is inserted. The disc is placed upside down. The disc is not placed within the guide. The disc is dirty. A menu is on the TV screen. The parental lock function is set. 	<ul style="list-style-type: none"> Insert a disc. (Check that the DVD or VCD or audio CD indicator in the DVD displays is lit.) Insert a playback disc. (Check the disc type and color system). Place the disc with the playback side down. Place the disc on the disc tray correctly inside the guide. Clean the disc. Press the SETUP button to turn off the menu screen. Cancel the parental lock function or change the parental lock level. (<i>The Pre-set password is 3308.</i>)
Buttons do not work	<ul style="list-style-type: none"> Power supply fluctuations or other abnormalities such as static electricity may interrupt correct operations. 	<ul style="list-style-type: none"> Turn the power on or off with the POWER button. Or disconnect the power plug and insert it into the wall outlet again. Check each button on the remote, make sure it is in normal position.
The remote control does not work properly	<ul style="list-style-type: none"> The remote control is not pointed at the remote sensor of the DVD video player. The remote control is too far from the DVD video player. The batteries in the remote control are exhausted. 	<ul style="list-style-type: none"> Point the remote control at the remote sensor of the DVD video player (left side). Operate the remote control within about 11" - 20". Replace the batteries with new ones.

DISCS AND OUTPUT SOUNDS

Sound recording system	DVD Video Discs							VCD	CD	MP3 CD
	Dolby Digital		MPEG 2		Linear PCM			MPEG/	PCM44.1kHz	MP3
Audio setting on the setting screen	SPDIF /RAW	SPDIF /RAW	SPDIF /RAW	SPDIF /PCM	SPDIF /RAW SPDIF /PCM	SPDIF /RAW	SPDIF /PCM	SPDIF /RAW SPDIF /PCM	SPDIF /RAW SPDIF /PCM	SPDIF /RAW SPDIF /PCM
ANALOG AUDIO OUT jacks	—	o	—	o	—	o	o	—	o	o
DIGITAL AUDIO OUT jack	Dolby Digital bitstream	PCM (48kHz)	MPEG 2 bitstream	PCM (48kHz)	PCM (48kHz)	PCM (48kHz)	—	PCM (44.1kHz)	PCM (44.1kHz)	PCM (44.1kHz)

ON VIDEO CD

This DVD video player supports the VIDEO CD with PBC (Version 2.0) (PBC) is the abbreviation for Play Back Control.)

You can enjoy two kinds of playbacks, depending on types of disc.

TYPE OF DISC	HOW TO ENJOY
VIDEO CD without PBC (VERSION 1.1)	Audio and movie can be played back by operating the unit in the same way as the audio CD.
VIDEO CD with PBC (VERSION 2.0)	In addition to the operation of the VIDEO CD without PBC, you can enjoy a playback with interactive software and software with search function by using the menu displayed on the TV screen (Menu Playback). Some of the functions described in this manual may not work in some discs.

MPEG 1 AUDIO LAYER 3 DISC (MP3)

MP3 Audio Disc Play Back Capable	MP3 audio disc can be played back by operating the unit in the same way as the audio CD.
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Limited Warranty



DVD PLAYER

90 DAYS LABOR

ONE YEAR REPLACEMENT OF PARTS

WHO IS COVERED?

A proof of purchase is required to receive warranty service. A sales receipt or other document showing original date of purchase is considered proof of purchase.

WHAT IS COVERED?

Warranty repair is one (1) year limited warranty coverage:

- 90 days from original date of purchase:
 - Parts and labor are included under warranty repair.
- After 90 days up to one (1) year from original date of purchase.
 - Parts usage will be cover under warranty.
 - Labor will be charged at a flat rate.

NOTE: If you don't have proof of purchase, then your unit will be considered out-of-warranty. Out-of-warranty repairs will be charged at a flat labor rate, including any necessary parts.

WHAT IS EXCLUDED?

Your warranty does not cover:

- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- Product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Apex Digital, Inc.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- Incidental or consequential damages resulting from the product. (Some states do not allow the incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)

MAKE SURE YOU KEEP:

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE:

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

REMEMBER

Keep a record of your model and serial number.

MODEL # _____

SERIAL # _____

WHERE IS SERVICE AVAILABLE?

Please contact: APEX DIGITAL, INC. • 2919 E. Philadelphia St., Ontario, CA 91761
(909) 930-1239 • customerservice@apexdigitalinc.com

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.