Discs

Playable discs
This DVD video player can play the following discs.

Playable discs	
DVD video discs	MP3 ID3 TAG
Audio CDs	WMA

About CD Extra discs
A CD Extra disc is a disc in which a total of two sessions have been recorded. The first session is Audio session and the second session is Data session.
Your personally-created CDs with more than second data sessions recorded cannot be played on this DVD video player.
Note:
• *When you play a CD Extra disc, only the first session will be recognized.*

About playing a CD-R/CD-RWdisc (MP3, WMA)
This player can play CD-R/CD-RW discs previously recorded in music CD format (MP3, WMA) or video CD format.

About playing a DVD-R/RW or DVD+R/RW disc
This player cannot play DVD-R/RW and DVD~R/RW discs previously recorded in video CD format.
However, MP3/WMA files recorded on DVD-R/RW and DVD+R/RW discs can be played.

Discs that cannot be played back
This DVD video player cannot play back DVD-Audio, DVD-RAM, Photo CDs, etc.
Note:
• *It may also not be possible to play back CDs recorded on a CD-R unit and CD-RW unit. (Cause: disc characteristics, cracks, dust/dirt, dust/dirt on player's lens, etc.)*
• *If a CD-R or CD-RW disc that has not been finalized is played, it will take a long time to start playing. Also, it may not be possible to play depending on its recording conditions.*
• *You cannot play SuperAudio CDs. Playback of the CD player is not supported even if it is a hybrid disc.*

About MP3/WMA playback
This unit can play back CD-R/CD-RW, DVD-R/RW and DVD~R/RW discs on which MP3/WMA music data have been recorded.
For a detailed information, see the section entitled "Listening to MP3/WMA".

Note on region numbers
The DVD video system assigns a region number to DVD video players and DVD discs by sales area. DVD video players sold in the United States can play back DVD discs with the region number
"ALL", **"1"** or any combination of numbers that also incorporate a **"1"**.
The DVD video region number is marked on the disc jacket as shown below.

About the registered marks, etc.

• This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.
• Windows Media^{TM}, and the Windows$^®$ logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/ or other countries.
• Manufactured under license from Dolby Laboratories.
• "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

• "Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

"Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

iPod and iTunes$^®$ are trademarks of Apple Inc., registered in the U.S. and other countries.
iPhone is a trademark of Apple Inc.

6. OPERATIONS

Basic Operations

Note:
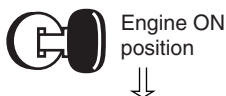• Be sure to read this chapter referring to the chapter "3. CONTROLS"

⚠ **CAUTION**

When the unit is turned on, starting and stopping the engine with its volume raised to the maximum level may harm your hearings. Be careful about adjusting the volume.

Turning ON and OFF the Power

Note:
• Start the engine before using this unit.
• Be careful about using this unit for a long time without running the engine. If you drain the car's battery too far, you may not be able to start the engine and this can reduce the service life of the battery.
1. Start the engine. The power button / knob illumination on the unit will light up.
2. Press the **[■ PWR]** button on the tuner to turn ON the power.
3. Press the **[⏻]** power button on the remote control to turn ON the power.
4. To turn OFF the power, press and hold the **[■ PWR]** power button on the tuner for more than 2 seconds.
5. To turn OFF the power, press and hold the **[⏻]** power button on the remote control for more than 2 seconds.

Engine ON position

⇓

⇓

Opening and Closing Operational Panel

Press **[OPEN]** button on the unit (NZ500).
The operational panel will be open.
Press the same button again to close the panel.
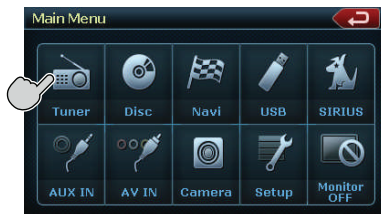
⚠ **CAUTION**

• **Do not move the operation panel forcibly or do not apply strong force to the operation panel.**
• **When the operation panel is operating, be careful not to get your hand or finger caught between the operation panel and main unit or its mechanical parts.**
• **The driver should not operate the operation panel while driving.**

Adjusting the Angle of the Operational Panel

Adjust the desired angle by pressing **[⌃] [⌄]** tfiflt buttons on the unfit (NZ500).

Selecting a Mode

1. Touch the screen button on the Main Menu to enter the desired mode: Tuner, Disc, NAVI, USB, Sirius, AUX IN, AV IN, etc., iPod/iPhone.
*External equipment not connected to this unit is not displayed.

Turning Monitor ON or OFF

1. Touch the screen button **Monitor OFF** on the Main Menu to turn Off the screen.
2. Touch the screen again to turn monitor screen On.

NX_NZ500 0608.indd   17   6/16/2009   8:05:39 AM

Basic Operations

Adjusting the volume

Turn the volume knob to adjust the volume.
Clockwise : Increases the volume.
Counter- clockwise : Decreases the volume.
• The volume level indicated in the display is in a range from 0 (min.) to 40 (max.).

⚠ CAUTION

While driving, keep the volume level at which external sounds can be heard.

Mute

Press the **[MUTE] [PWR]** button to turn mute On and Off.

Adjusting the Settings

1. Press **[Setup]** to enter setting menu mode.
2. Press the desired mode button.
   Modes come in the following order:
   • General, including **Clock** settings, **Beep, Camera Image, Radio Field, Tel Mute, Tel SP, Auxin Input SW, Version.**
   • Video, ASP, Navigation, Misc.

3. Perform the adjustment for the desired item. See the following sections fo details.

Adjusting the Audio

1. Press the **[EQ]** button on the screen or the [SEL] button on the remote control.
2. Touch the item key to adjust.
3. Perform the adjustment.

See the following sections for detail.

4. Touch the **[⟵]** key to return to the previous screen.
* In the following sections, only the details regarding adjustments are described, procedures to select items are skipped.

Adjusting the Balance/Fade

1. Touch the BALANCE or FADE in the Audio Settings.
2. Touch the **[F]** or **[R]** key to adjust to the fader level.
   • The factory default setting is "0". (Adjustment range: front 9 to rear -9)
3. Touch the **[L]** or **[R]** key to adjust to the balance level.
   • The factory default setting is "0". (Adjustment range: left -9 to right 9)

Adjusting the Bass

The bass gain and bass frequency can be adjusted as follows.
1. Touch **[-]** or **[+]** key to set the desirable level.

Adjusting the Treble

The treble gain and treble frequency can be adjusted as follows.
1. Touch **[-]** or **[+]** key to set the desirable level.
2. To set the treble center frequency, enter the ASP adjustment in the SETUP menu.

Basic Operations

Adjusting the clock

Press the **[Setup]** button. The Setup menu will be displayed. Touch **"Clock"** in **General** sub menu.

2. Set up the time by touching the digital numbers on the screen.
3. Touch the **[Clock Mode]** to change time settings to 12Hr or 24Hr. Select 12Hr, than you can choose AM or PM mode.
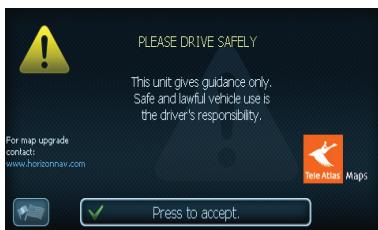
Adjusting the Radio region

1. Touch the **[Radio Field]** button in the Setup menu.
2. A region selection menu will appear. Scroll down using the arrow at the bottom of the menu. Scroll up using the arrow at the bottom of the menu. Select the area's radio region that you are in. If the region selected is incorrect, radio reception will be poor.

Displaying the Navigation Map

1. Touch the **[Navi]** button on the Main Menu screen.

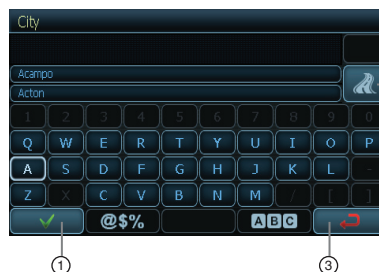The warning screen will be displayed.

2. Press the highlighted check mark (Accept). The Main Menu will be displayed. Select your destination.

3. Select one of the options dispalyed on the screen.
   • **Go To...**
   • **Point of Interest**
   • **State or Province: CA** (The software remembers the last State/Province)
   • **History** (The adresses you navigate before)

4. The navigation system will calculate a route to the selected destination by using the criteria set in **Setup Mode**.
5. Touch the **State or Province** button. The "City" keyboard screen will be displayed. Press the "Check" (1) button to choose the city from the list, or spell the City name on keyboard. Than press Enter (2) button.

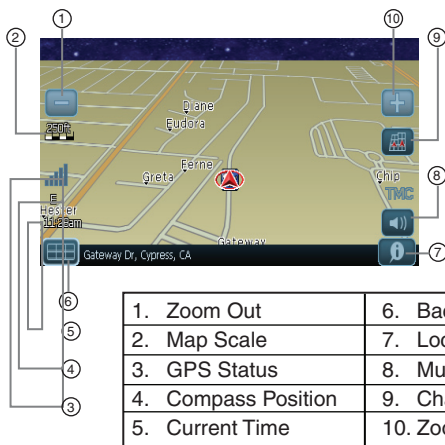| 1.	Check button
2.	Enter button
3.	Return to previous screen (menu)

6. Enter the required information on the screens displayed in the order shown below.
In order to proceed to the next sreen, press the "Check" button.

7. Press the highlighted "Start Route" button.

8. Route map will be displayed. The navigation to your destination will start.

1.	Zoom Out	6.	Back to Menu
2.	Map Scale	7.	Local Information
3.	GPS Status	8.	Mute
4.	Compass Position	9.	Change View
5.	Current Time	10.	Zoom In

9. To set up navigation menu, see "Navigation set up " in "Setup Operations" chapter.

Reset to Factory Defaults

1. Press **Setup** to enter setting menu mode.
2. Press the **Misc** button.
3. Press **Load Factory** button.
Select **[YES]** to restore your unit to factory default settings. This function will erase all memory from the unit and you must reset all personalized items such as tuner presets.
NOTE: You will be asked once to confirm that you would like to reset the unit. The unit will power down and restart with factory defaults.

Radio Operations

Listening to the Radio

1. Touch the **Tuner** button on the Main menu display. The tuner mode screen is displayed.
2. Press the **[BAND]** button or touch the **[Band]** key on remote control to select the radio band. Each time the button is pressed, the radio reception band changes in the following order: FM1 FM2 FM3 AM FM1...

1. Tuner display	12. Tune Up
2. Signal intensity	13. Seek Up
3. Time display	14. Band button
4. Return to previous screen	15. AS button
	16. PS button
5. Band display	17. LOC/DX Button
6. Loc/DX display	18. Slide Bar (Use it to hide some function buttons)
7. Stereo/Mono signal mode	
8. Preset list	19. Previous page button
9. Seek down	
10. Tune down	20. Next page button
11. Scan button	21. EQ mode button

Seek Tuning

1. Press the **[BAND]** button to select the radio band (FM or AM).
2. Touch the **[I◄◄]** or **[►►I]** key to automatically seek a station.
   • When touching the **[►►I]** key, the station is sought in the direction of higher frequencies.
   • When touching the **[I◄◄]** key, the station is sought in the direction of lower frequencies.

Manual Tuning

1. Press the **[BAND]** button to select the radio band (FM or AM).
2. Touch the **[◄◄]** or **[►►]** key to automatically seek a station.
   • When touching the **[►►]** key, the station is sought in the direction of higher frequencies.
   • When touching the **[◄◄]** key, the station is sought in the direction of lower frequencies.

Recalling a preset station

There are 2 ways to recall the preset station.
• Using the remote control:
   1. Press the **[BAND]** button to select the desire band (FM or AM) on the remote control.
   2. Press the preset number (1 to 6) on numeric pad.

• Using the tuner unit:
   1. Press the **[BAND]** button to select the desire band (FM or AM) on the tuner.
   2. Press the preset station (1 to 5) on tuner display.
   3. Press **[▲]** or **[▼]** to select next station up or down the preset list.
   4. Press **[AS]** button to auto search and store the stations.

Auto Store

The Auto Store is a function for storing up to 12 stations that are automatically tuned in sequentially. If 12 receivable stations cannot be received, a previously stored station remains unoverwritten at the memory position.
1. Touch the **[Band]** key to select the desired band. (FM or AM)
2. Touch the **[AS]** key momentarily to start the Auto Store function.
   A beep sounds and the stations with good reception are stored automatically to the preset channels.

Radio Operations

Preset Scan

The Preset Scan receives the stations stored in the preset memory in order. This function is useful when searching for the desired station in memory.
1. Touch the **[Band]** key to select the desired band. (FM or AM)
2. Touch the **[PS]** key to start the Preset Scan. The unit starts scanning each station for 10 seconds sequentially.
3. When the desired station is tuned in, touch the **[PS]** key again to continue receiving that station.

LOC/DX Setting

The DX / LOC setting changes the tuner sensitivity in order to seperate closely spaced stations. This feature is useful in areas that have many radio stations in close proximity.
1. Touch the **[DX]** key to switch to LOCAL tuner sensitivity.
2. Touch the **[LOC]** key to switch to DX tuner sensitivity.

DVD Video Player Operations

Change DVD System Settings

Note:
If the set up operation is performed in the middle of DVD video play, the disc will restart from the beginning.

Selecting DVD Set Up Menu

1. Press the **[SETUP]** button on the Main Menu to access the Video set up menu.
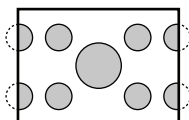2. Press the **[Video]**. The video menu is displayed.

Setting up the Screen Size

Press the **[TV Shape]** button on the display in to change the sceen size **4:3** or **16:9**.
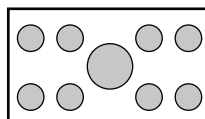The factory default setting is " 16:9 ".
• When watching a wide type through a conventional type of the rear view monitor (4:3), the leftmost and rightmost areas of the screen are cut off.

This function allows displaying the important part of image fully on the screen. In some cases, image is displayed while being panned (scrolled).
• When watching a wide type through a wide type of the rear view monitor (16:9), the leftmost and rightmost areas of the screen are not cut off.

Setting up the Video System Format

Press the **Aux IN** button on the display to set up the video system format : **Auto**, **PAL** or **NTSC.** The default setting is **Auto.**
Touch the required system format on the screen.

Setting up the Video Brightness

Press the brightness button. Touch the desired video brightness displayed, on scale from 0 to 20.

DVD Video Player Operations

Setting up the password for parental level control

The factory default setting is "0000".
1. In **Main Menu** press **Setup** button. Press **Misc** button on the dispaly. Touch the **Set Password ----** and a numerical key pad will appear.

Input a new password. The password is set.
Note: When a disc with view restrictions is inserted, you will be prompted to input a password. The disc will not be viewable until the correctpassword is entered.

Set rating for parental level control

1. Select **MISC** screen while in **SETUP** mode. Press **Kid Saf** button. Press the desired rating for level control. Use this table to set the parental level.

NC-17	NO ONE 17 AND UNDER ADMITTED
R	RESTRICTED
PG13	PARENTS STRONGLY CAUTIONED
PG	PARENTAL GUIDANCE SUGGESTED
G	GENERAL AUDIENCES

• The contents that the parental level restricts vary with the country code.
Note: The rating can be selected only under the password unlocked status, and the limits can be set only under the password locked status.

Watching/Listening to a disc

Note: Refer to the diagram in "CONTROLS" chapter.
1. To load a disc:
   Press the **[OPEN]** button to flip down the front panefl. (NZ500 onfly)
   Insert the disc into the center of the insertion slot the label side facing up.

⚠ CAUTION

For your safety, the driver should not insert or eject a disc, or operate the controls while driving.

Note:
• *Never insert foreign objects into the disc insertion slot.*
• *If the disc is not inserted easily, there maybe another disc in the mechanism or the unit may require service.*
• *8cm (single play) discs cannot be used.*
2. Disc starts playing automatically.

⚠ WARNING

Some videos may be recorded at higher than desired volume levels. Increase the volume gradually from the minimal setting after the video has started.

Ejecting a disc

1. To eject a disc press eject **[⏏]** button. The play mode than switches to the Tuner mode.
   *If the disc is left in the ejected position for 15 seconds, the disc is automatically reloaded. In this case, the play mode will remain set to the Tuner mode.
   Note: If you force a disc into before auto reloading, it will damage a disc.

Showing DVD Player mode screen

After disc is loaded, the play mode is automatically engaged.
Touch the screen of the playing disc to display DVD Video menu. The display will return to the playback screen, if you do not touch the screen for 5 seconds.

DVD Video Player Operations

1. MENU Button	8. Chap Button
2. INFO Button	9. Previous Track Button
3. A-B Repeat Button	10. Fast Backward Button
4. Repeat Button	11. Play/Pause Button
5. Subtitle Button	12. Fast Forward Button
6. Channel Button	13. Next Track Button
7. Back Button	14. Stop Button

Operate the DVD Player menu

You can select the button items displayed in the DVD menu by directly touching it.
If the button items are hard to select correctly, you can also operate them by using the remote control directional buttons.

Stop Playback

1. Touch the **[■]** key. Playback is stopped.
2. To resume playback, press the **[▶/❙❙]** button. Playback resumes from the scene where playback is stopped.

Play/Pause Playback

1. Touch the **[▶/❙❙]** key to pause during playback.
2. Touch the **[▶/❙❙]** key again to resume playback.

Skip(Search) a Chapter

1. Press the **[❙◀◀]** or **[▶▶❙]** button during playback.
2. Press the **[∧] or [∨]** button during pflayback. (NZ500)
Chapters are skipped down or up from current locations, as many times as the button is pressed, and playback starts.

Fast Forward Fast Backward

1. Press the **[◀◀]** or **[▶▶]** button to start your fast backward or fast forward during playback. The playback speed starts at 2x, then will increase to 4x,8x, and 1 6x with each additional press.
   *No audio is reproduced during fast forward and fast backward operation.
   *The fast forward and fast backward speed may differ depending on the disc.

Search with a Chapter/Title Number

You can locate the beginning of a scene using the chapter numbers or title numbers recorded on the DVD Video disc.
1. Showing the DVD PLAYER mode screen,

touch the **[CHAP]** key.
The Key Pad screen appears with the chapter number input mode. Touching the **[Title]** key turns the Key Pad to the title number input mode. Touching the **[Time]** key turns the Key Pad to the time number input mode.
- **Title**
  A large segment to divide the data area of the disc.
- **Chapter**
  A small segment to divide the data area of the disc.
- **Time**
  A specific time on the disc.
2. Input the number of the title/chapter/time that you want to play back with the **[0]** to **[9]** key.
3. Touch the **[OK]** key.

Playback starts from the scene of the input title number, time or chapter number.
*If the input title/chapter/time number does not exist or searching with a title/chapter number is not allowed, the screen image will not change.
4. Touch the **[⬑]** Back key.

Repeat Playback

This operation plays back chapters recorded on the DVD-Video repeatedly.
1. Showing the DVD Player mode screen, touch the **[⤾]** Repeat key.
2. Touch the **[⤾]** key once for Chapter Repeat, again for Title Repeat.
3. Press the **[⤾]** button again to turn off the repeat playback.

Repeat A ▸ B

Select the desired passage to play back.
Touch **[⤾]** repeat A to B button.
Selected passage starts play again.
Touch this button again to stop replay.

DVD Video Player Operations

Using the Title Menu

On DVD discs containing two or more titles, you can select from the title menu for playback.
1. Showing the DVD PLAYER mode screen, touch the **[CHAP]** key during playback.
   The title menu screen appears.
   *Depending on the disc, the title menu cannot be called.
2. Select the button items displayed in the title menu screen by the same way of the DVD menu operation.
   *Depending on the disc, items cannot be selected with the ten-key buttons.

Using the Title Menu

On discs in which two or more audios or audio languages have been recorded, you can switch among the audio languages during playback.
1. Touch the **[⊕]** audio key during playback.
   • Each time you touch the key, you can switch among audio languages.
   • It may take time to switch among audios.
   * Depending on the disc, up to 8 audios may be recorded. For details, see the mark of the disc: (⑧) Indicates that 8 audios have been recorded).
   * When the power is turned on and when the disc is changed to a new one, the language set as the factory default is selected. If that language has not been recorded, the language specified on the disc.
   * Depending on the disc, switching may be completely impossible or impossible on some scenes.
2. The DVD PLAYER mode screen will hide in 5 seconds after your selection is made.

Switching Subtitles

On DVD discs in which two or more subtitle languages have been recorded, you can switch among the subtitle languages during playback.
1. Touch the **[Sub T.]** key during playback.
   Each time you touch the key, you can switch among subtitles.
   • It may take time to switch among subtitles.
   * Depending on the disc, up to 32 kinds of subtitles may be recorded. For details, see the mark of the disc: (⊞ Indicates that 8 kinds of 8 subtitles have been recorded).
   * Depending on the disc, switching may be completely impossible or impossible on some scenes.

2. The DVD Player mode screen will hide in 5 seconds after your selection is made.
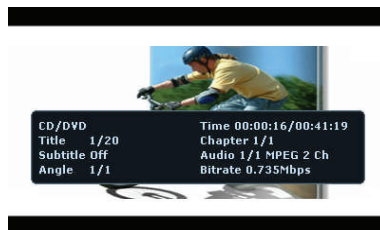3. To turn off subtitles, repeat touching **[Sub T.]** key until subtitles are turned off.

Switching angles

On DVD discs in which video images have been recorded in two or more angles, you can switch among the angles during playback.
1. Touch the **[Angle]** button on the remote control during playback. Each time you touch the key, you can switch among angles.
   * It may take time to switch among angles.
   * Depending on the disc, up to 9 angles may be recorded. For details, see the mark of the disc: (📹 Indicates multi-angle).
   * Depending on the disc, angles may switch smoothly or switch with a momentary still image.
   * Depending on the disc, switching may be completely impossible or impossible on some scenes.
   * Depending on the disc, scenes recorded in two or more angles may be played back.
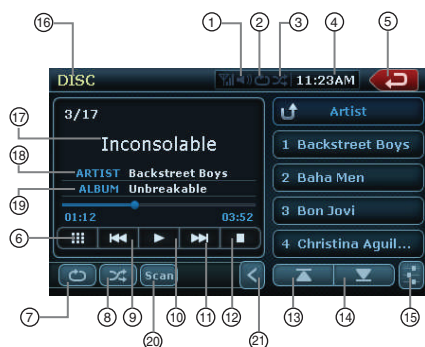
Displaying the playback status

Touch the **[INFO]** key on the DVD Player mode screen, or remote control.
Playback status is displayed on the screen.

DVD Video Player Operations

LISTENING TO a CD

1. Mute Display	12. Stop Button	
2. Repeat Display	13. Previous Page Button	
3. Shuffle Display	14. Next Page Button	
4. Time Display	15. EQ Button	
5. Back Button	16. Source Display	
6. Keyboard Button	17. Song Title	
7. Repeat Button	18. Artist Information	
8. Shuffle Button	19. Album Information	
9. Previous Track Button	20. Scan Button	
10. Play/Pause Button	21. Slide Bar	
11. Next Track Button		

Pausing Playback
1. Touch the **[▶]** button to pause playback.
2. To resume playback, touch the same button again.

Skipping a Track (searching)
Touch the **[◀◀]** button during playback.
Tracks are skipped, as many as the times the button is pressed, and playback starts.
• Pressing the **[▶▶]** button starts playback from the beginning of the next track.
• Pressing the **[◀◀]** button starts playback from the beginning of the current track. When this button is pressed again within about 2 seconds, playback starts from the beginning of the previous track.

Fast Forward and Fast Backward
1. Press and hold the **[▶▶]** or **[◀◀]** button during playback.
Press again to advance to higherspeed reversing or forwarding such as 2x,4x, 8x and 1 6x. Press once more to resume normal speed playback.

Scanning the Tracks
1. Touch the **[Scan]** button during playback. Touch again to advance to higher speed reversing or forwarding such as 2x,4x, 8x and 16x. Press once more to resume normal speed playback.

Searching with the Track Number
This operation allows searching using the track numbers recorded on the CDs.
1. Touch the **[▤]** keyboard button on a display. The numerical keypad will appear on the screen.
2. Input the track number that you want to play back with **[0]** to **[9]** key.
Playback starts from the track of the input track number.
• If the input track number does not exist or searching with a track number is not allowed, the screen image will not change.

Selecting a track on the Track List Screen
This function allows you to select tracks from a displayed list.
1. Touch the trak title on the display list. The selected track will start playing.
2. When the desired track is not displayed, touch the **[▲]** or **[▼]** key to scroll the track list.
3. Touch the desired track title key. The corresponding track is started playback.
4. Press the **[↵]** key to return to the previous screen.

Other various play functions
Touch the touch key of the function you want to play.
Repeat [↻]: Press once to start a single track repeat. Press again to activate a repeat all.
To turn repeat off, press same button again.
• Repeat symbols are displayed in the info window in the upper right area of the screen.
Shuffle [✕]: Touch this button to shuffle the tracks during playback.
Touch this button again to turn off the feature.
• A shuffle symbol is displayed in the info window in the upper right area of the screen.
Stop Playing [■]: Stop play all the tracks.
Set up [⬍] Audio: Touch this button to enter Audio Settings menu**.**

DVD Video Player Operations

Listening to MP3/WMA

This unit is an ID3 Tag compatible model.
This unit supports the ID3 TAGs of the Version 2.4, 2.3, 1.1 and 1.0.
In displaying, this unit gives priority to the Version 2.3 and 2.4 TAGs.
After USB device inserted into USB slot, or disc is loaded, the play mode is automaticlly engaged.

What is MP3/WMA?

MP3 is an audio compression method and classified into audio layer 3 of MPEG standards.
WMA is an audio compression method developed by Microsoft Corporation.
These audio compression methods have penetrated into PC users and become a standard format.
These features compress the original audio data to about 10 percent of its initial size with a high sound quality. This means that about 10 music CDs can be recorded on a CD-R disc or CD-RW disc to allow a long listening time without having to change CDs.

Note:
• *Some CDs recorded on CD-R/RW mode may not be usable.*

Displaying MP3/WMA TAG titles

Tag information such as title, artist and album title can be displayed for MP3/WMA file containing Tag information.

Precautions when creating an MP3 disc

• File extensions
1. Always add a file extension ".MP3" or ".mp3" to an MP3 file, and ".WMA" or ".wma" to a WMA file by using single byte letters. If you add a file extension other than specified or forget to add these file extension, the file cannot be played. In addition, if you use upper case and lower case letters (capital and small letters) mixedly for file extensions, normal play may not be possible.
2. Files other than MP3/WMA data cannot be played.
   Playing files with a format not supported will be skipped, and the scan, random and repeat playback mode may be canceled.

• File and Disc Not Supported
Files and discs with following extensions are not supported: *.AAC, *.DLF, *.M3U, *.PLS, MP3 PRO files, files with DRM, open session discs.

• Logical format (File system)
1. When writing an MP3/WMA file on a disc, please select "**ISO9660 level 1 or level 2 (without including expansion format)**" as the writing software format. Normal playback may not be possible if the disc is recorded on another format.
2. The folder name and file name can be displayed as the title during MP3/WMA play but the title must be within 31 single byte alphabetical letters and numerals for the folder name and file name (including an extension). Entering more letters or numerals than specified may cause an incorrect display.

• Entering File and Folder Names
Names using the code list characters are the only file names and folder names that can be entered and displayed. Using any other character will cause the file and folder names to be displayed incorrectly.

• Electronic Shock Protection
10 seconds for CD-DA (CDA)
45 seconds for MP3 recorded at 44.1 kHz, 128kbps
90 seconds for WMA recorded at 44.1 kHz, 128kbps

• Folder structure
1. A disc with a folder having more than 8 hierarchical levels will conflict with the ISO9660 and playback will be impossible.

• Number of files or folders
1. The maximum allowable number of folders is 255 (including root directory); the maximum allowable number of files is 512 (max. 255 per folder). This represents the maximum number of tracks that can be played back.
2. Tracks are played in the order that they were recorded onto a disc. (Tracks might not always be played in the order displayed on the PC).
   • Some noise may occur depending on the type of encoder software used while recording.
   • In case of a track recorded at VBR (variable bit rate), the display for the play time of the track may be slightly different from the actual play time. Also, the recommended value of VBR ranges from 32 kbps to 320 kbps.
   • After disc selection, the play mode is automatically engaged.