Repeat Play

Touch [⟳] to repeatedly play back the currently track.
The tracks (files) will be played repeatedly.
Touch **[⟳]** again to deactivate Repeat play.

Track Repeat ⟳ → OFF ⟳ → Track Repeat ⟳

Random Play (Shuffle)

1 Touch [⤬].
The Random Play mode select pop up screen is displayed.
- *The [⤬] button displays the currently selected mode.*

2 Select your desired Random Play mode.
The selected Random Play mode changes the button.

Song ⤬ : All files in the iPod are played back in random sequence.

Album ⤬ : The songs on each album are played back in proper order. Upon completing of all the songs on the album, the next album is selected randomly. This continues until all albums have been played.

Songs ⤬ : Song shuffle randomly plays back songs within a selected category (playlist, album, etc.). The songs within the category are played just once until all songs have been played.

OFF ⤬ : Random mode Off.

Switching Display Modes (During Video File Play Back)

You can switch the Display Mode while playing a Video File.

1 Touch [▭].
The Display Mode select pop up screen is displayed.
- *The [▭] button displays the currently selected mode. (e.g. [Normal])*

2 Select your desired Display Mode.

Wide mode
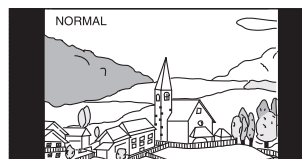

In Wide mode, the monitor displays a normal picture wider to fit in a wide-screen monitor by evenly stretching out the picture horizontally.

Cinema mode

In Cinema mode, the monitor displays a normal picture by stretching out the picture horizontally and vertically. This mode is good for displaying a cinema type picture at the 16:9 ratio.

Normal mode

In Normal mode, the monitor displays a normal picture at the center of the screen with a vertical black band at each side.

"Thumbs" Feedback

You can personalize your stations with "Thumbs Up" or "Thumbs Down" feedback, which the system takes into account for future music selections.

During playback, touch [👍] for thumbs up, or touch [👎] for thumbs down.

👍 : The "👍" indicator appears in the display. Pandora® will add similar music to your station.

👎 : The "👎" indicator is displayed. Pandora® will ban that song from your station, and the current song is skipped. If the number of skips allowed has reached its limit, the current song continues to play back.

- *In some situations, "Thumbs" feedback may not be available.*

Searching for a Desired Station

You can display your station list and select stations directly from the unit.

1   Touch [🔍] (Search) to activate the Search mode.

Alphabet Search

2   Touch [By A-Z].
The "By A-Z" search mode is activated and the station names are listed alphabetically.

3   Touch the desired station.
Pandora will play that station.

Search by Date Added

2   Touch [By Date].
The "By Date" search mode is activated and the station names are listed by the date they were added to the account.

3   Touch the desired station.
Pandora will play that station.

QuickMix

Use QuickMix to create a playlist based on two or more of your Pandora stations. Edit your QuickMix station selections on the Pandora Compatible Application for iPhone when it is not connected to the unit.

1   Touch [🔍] (Search) to activate the Search mode.
The "By A-Z" or "By Date" search mode is activated and the station name is displayed.

2   Touch [⤬] (QuickMix).

- *The ⤬ indicator lights, and the songs from the created stations are played back in random sequence.*

Creating a New Station

Basing on the currently playing song or artist, a personalized Pandora station can be created. The new station will play more music like it.

Free word

1   During playback, touch [➕] (New Station).
The Key Pad screen is displayed. You can enter a keyword and search for Artist/Song.

2   Enter a keyword and touch [OK].

3   Touch the desired list.
The new station is automatically applied.

- *For details of how to input characters from the keypad, refer to "How to Input Characters and Numbers (Keypad)" (page @@).*

Artist/Track

During playback, touch [➕👤] (Artist) or [➕♪] (Track).

- *The created station is saved to your station list.*
- *When the Smartphone is not connected to this unit, you can create personalized Pandora® stations using the Pandora® Application on your Smartphone. You can also create stations on the web at www.pandora.com.*
- *In some situations, creating a new station may not be available.*
- *You cannot perform this operation while driving.*

Bookmarking a Desired Track or Artist

The currently playing song or artist can be bookmarked and saved to your Pandora account.

During playback, touch [🔖👤] (Artist) or [🔖♪] (Track).
The current track or artist is bookmarked. "♪" icon or "👤" icon is displayed.

Connecting a Bluetooth Device (Bluetooth Pandora® Only)

Registering a Bluetooth device in the unit enables automatic connection. If it does not connect automatically, run through the connection procedure again.

1 **Touch [ ] (Settings).**
The Device Setting select pop up screen is displayed.

2 **Touch [Reconnect].**
Bluetooth connection will start.

Disconnecting the Bluetooth Connection

1 **Touch [ ] (Settings).**
The Device Setting select pop up screen is displayed.

2 **Touch [Disconnect].**
The Bluetooth connection is disconnected.

Changing the connecting Bluetooth Device

If multiple Bluetooth devices are registered in this device, you can change the connection among the registered devices.

1 **Touch [ ] (Settings).**

2 **Touch [Change].**

3 **Touch [ ] (Audio) or [ ] (Hands-free) of the selected device.**
The connection will transfer to the selected device.

Receiving Channels with the SiriusXM Tuner

About SiriusXM Satellite Radio

Everything worth listening to is on SiriusXM, getting over 130 channels, including the most commercial-free music, plus the best sports, news, talk and entertainment. A SiriusXM Tuner and Subscription are required. For more information, visit www.siriusxm.com/activatenow, or call 1-866-635-2349.

To activate SiriusXM Canada service, go www.xmradio.ca and click on "ACTIVATE RADIO" in the top right corner, or call 1-877-438-9677.

- *The SiriusXM Satellite Radio controls on this unit are available only when a SiriusXM Tuner is connected.*

1 Press the ♪ (AUDIO) button to select SiriusXM mode.
The display shows the SiriusXM mode screen.
- *You can select and change the source in the Menu screen (page @@) or Favorites screen (page @@).*

2 Touch [◀] or [▶] to select the desired channel. Touching and holding either button will rapidly browse through the channels.

- *Refer to the SiriusXM Tuner User Guide for details on how to install the SiriusXM Tuner.*

Tuning Channels by Category

Channels are grouped into categories based on the type of content heard on the channels.

1 Touch [▮] (Category) on the SiriusXM main screen to activate the category browsing mode.
The channels within the category of the current channel are listed.

① Touching the [Info] button changes the display of information for the channels in the category with the following three options.
Channel No./Channel Name → Channel No./Artist Name → Channel No./Song Title → Channel No./Content Info → Channel No./ Channel Name

2 Touch [▤↗] (Category Up) or [▤↙] (Category Down) on the category browsing mode screen to select a desired category.
The Category Name is shown at the top of the display.

3 Select the desired channel.

- *If no operation is performed for 10 seconds, the category browsing mode is canceled.*

Changing the Display

Text information, such as the channel name, artist name/feature, and song/program title, is available with SiriusXM or channel. The unit can display this text information as explained below.

Touch [ⓘ] (Info).

Each time you touch this button, the Station Info. mode and the Song Info. mode switch alternately. For displayed contents, see "SiriusXM main screen example" (page @@).

Checking the SiriusXM Radio ID Number

To subscribe to the SiriusXM Satellite Radio service, it is necessary to locate and identify the Radio ID of your SiriusXM Tuner. You can check the Radio ID on the bottom surface of the SiriusXM Tuner box. You can also check it from this unit by performing the following procedure.

1 While receiving SiriusXM Radio, touch [◀] or [▶] to select channel "0".
The unit displays the ID number.

2 To cancel the ID number display, change the channel other than "0".

- *The SiriusXM Radio ID does not contain the letters I, O, S, or F.*

Storing Channel Presets

You can store 18 of your favorite SiriusXM channels for easy recall with Preset buttons.

1 Touch the Preset number you want to store, for at least 2 seconds.
The selected channel is stored.

2 Repeat the procedure to store up to 17 other channels.
A total of 18 channels can be stored in the preset memory.

- *For details on switching to the Preset mode screen, see ⑥ in "Preset mode screen example" (page @@).*
- *If you store a new channel into a preset which already has a channel assigned, the current channel will be cleared and replaced with the new one.*

Tuning Channels using Presets

Touch any one of the Preset numbers you have already stored in the Preset mode screen.
The preset station is received.

- *For details on switching to the Preset mode screen, see ⑥ in "Preset mode screen example" (page @@).*

Tune Start Function

Use Tune Start to play music content from its beginning on programmed preset stations. The user can, therefore, enjoy the full track (i.e. song) rather than hearing what's left from its current live playback position.
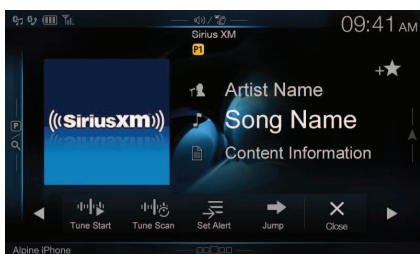
1 Touch and hold [ ] (Tune Start) for at least 2 seconds to activate or deactivate the Tune Start function.
When the Tune Start function is activated, [ ] (Tune Start) is highlighted.

2 On the Preset Mode screen, touch the Preset number.
Tune Start mode will begin.

- *To switch to the Preset mode screen, see ④ in "SiriusXM main screen example" (page @@).*
- *The number of preset channels that Tune Start can access differs depending on the SiriusXM Tuner Box.*
- *Touching [ ] (Track Up) or [ ] (Track Down) will move a track up/down.*
- *To fast reverse, touch and hold [ ] (Track Up) and to fast forward, touch and hold [ ] (Track Down).*
- *During Tune Start mode, the difference between the " " indicator and the current time is displayed (ex. -15:00).*
- *When you touch [ ] (Live) or [ ] (Tune Start) during Tune Start, the program currently selected in Tune Start mode changes to the program currently being broadcast.*
- *This function is available only when SiriusXM Tuner-SXV200 is connected.*
- *Preset stations that play other than music-type content will start playing the channel from the current live play point when selected.*

Tune Scan Function

While listening to SiriusXM Satellite Radio, you can scan through all the songs you missed from your current band of preset channels.

1 Touch [ ] (Tune Scan).
The [ ] (Tune Scan) highlighted during Tune Scan mode.

2 Touch [ ] (Tune Scan) during scan playback, tune scan mode will be canceled and the selected track will be played back normally.
Touch and hold [ ] (Tune Scan) for at least 2 seconds during scan playback to cancel Tune Scan mode. The tuner returns to the channel before Tune Scan was initiated.

- *This function is available when SiriusXM Tuner-SXV200 is connected.*
- *If no operation is performed during the scanning process, when scanning finishes, the next mode depends on the SiriusXM Tuner.*
- *During Tune Scan mode, the artist and song name will be displayed.*
- *The SiriusXM Tune scans through the songs from the preset music channels on the current band only, scanning from oldest to newest.*
- *The number of Preset channels and the play times that can perform Tune Scan differ depending on the SiriusXM Tuner box.*

Search Function

1 Touch the ⑥ Search mode button on the Preset mode screen.
The Search list screen appears.
- *To switch into Search mode, see ⑥ in "Preset mode screen example" (page 46).*
Search item:
All Channels / Category Name*1 / My Music / My Games / Featured*2

1 The Category name for the channel currently being received is displayed.
2 Displayed only when the SiriusXM Tuner-SXV200 is connected.

- *You can switch the category by touching [ ] (Category Up) or [ ] (Category Down) on the List screen after selecting a Search item other than Featured.*
- *You can switch the display format by touching [ ] (Info) in the List screen after selecting a Search item.*
  Channel No./Channel Name → Channel No./Artist Name → Channel No./Song Title → Channel No./Content Info → Channel No./Channel Name

Searching by Channel

2 Touch [All Channels].
All Channels will be displayed in a list.

3 Touch the selected channel.

Searching by Category

2 Touch Category Name.
The channels within the category of the current channel are listed.

3 Touch the selected channel.
The channel you selected is received.

Searching by My Music

2 Touch [My Music]*.
The artist names and song titles that you have stored and are currently playing will be displayed in a list.

* Displayed only when the stored song or artist is broadcasting.

3 Touch the desired artist/song.
The channel of the selected artist/song being broadcast is received.

Searching by My Games

2 Touch [My Games]*.
The sport teams that you have stored and the game is currently broadcasting will be displayed in a list.

* Displayed only when the game of stored team is broadcasting.

3 Touch the desired team.
The channel of the selected game being broadcast is received.

1 Touch **[Featured]***.
The Category that SXM recommends will be displayed in a list.

> * Displayed only when the SiriusXM Tuner-SXV200 is connected.

2 Touch the desired category.

3 Touch the desired channel within the selected category.

Selecting the Channel Directly

You can directly select the channel number on the display of the numeric keypad.

1 Touch **[⊞] (Direct Tune)**.
The numeric keypad input screen is displayed.

2 Touch to input the channel number.

3 Touch **[Enter]**.
The selected channel is received.

Storing the desired Song/Artist

While listening to SiriusXM Satellite Radio, you can be alerted when your favorite songs or artists are playing on other channels. An interruption Alert will be displayed when a matching artist or song is found on another channel. For receiving interruption Alert information, see "Receiving and Tuning to an Alert".

1 Touch **[##] (Set Alert) for at least 2 seconds on the SiriusXM mode screen.**
The Memory type selection screen is displayed.

2 Touch the **"Artist Saved" or "Song Saved" to select the store type.**
Scrolling text of the Artist's name (Song Title), Total registrations, and Remaining number of registration slots is displayed for 2 seconds, then the Artist or Song is registered as an Artist alert or Song alert.

- *The maximum number of registered Teams, Artists, and Songs is 50. For details on how to register a Favorite Team, see "Setting the Favorite Sports Team Alerts" (page @@).*
- *"Artist /Song Unavailable" appears on the display if both the artist and song is not available to be stored.*
- *"Artist (Song) Unavailable" is displayed if just the artist (song) is not available to be stored.*
  "Artist (Song) Saved" is displayed if this Artist (Song) was previously stored.
- *If there is no memory space, "Alert Memory Full" is displayed, and then you are asked whether you want to replace a stored item. If you select "OK," then the list of stored alert items is displayed. Touch the item that you want to replace.*

Receiving and Tuning to an Alert

Whenever a stored sports team, artist, or song is playing on another channel, an interruption Alert appears on the unit display. To tune to the game, artist or song identified by the alert, follow the steps below:

1 **When stored information is broadcast, after displaying "Song Alert", "Artist Alert" or "Game Alert," the screen changes to My Music list*¹ or My Games list*² display.**

> *1 Only for Song Alert and Artist Alert.
> *2 Only for Game Alert.

2 **Touch the channel on the list you want to receive.**
The display changes to the selected channel and the channel is received.

- *Touch [ⓘ] (Info) on the My Music list/My Games list screen, the information of the broadcasting channels will be changed.*
  Each time you touch the [ⓘ] (Info), the display changes as below.
  My Music list (Artist Alert):
  Artist name → Song Title → Channel name → Artist name
  My Music List (Song Alert):
  Song Title → Channel Name → Artist Name → Song Title
  My Games list:
  League Short Name/Team Abbrev/Team Nickname → Channel name → League Short Name/Team Abbrev/Team Nickname

Replay Function

In SiriusXM mode, you can pause, rewind and replay of live Satellite Radio.

■ **Replay mode screen example**

① Buffer usage
② Current Replay point
③ Replay status indicator (❚❚ or ▶)
④ Replay range
⑤ Time to live

1 **Touch [▶/❚❚] to Pause playing of the channel content.**
The "❚❚ (Pause)" indicator and replay progress bar is displayed.

2 **Touch [▶/❚❚] again to resume playing the content.**
The "▶ (Play)" indicator lights up and offset playback commences.

3 Touch [■] to exit Instant Replay and listen to live content.

- *To fast reverse, touch and hold [◄◄] and to fast forward, touch and hold [►►I].*
- *Touching [I◄◄] or [►►I] will move a track up/down.*
- *If you change channels while in Replay mode, the contents of the replay buffer are emptied.*
- *The allowed recording time differs depending on the SiriusXM Tuner box.*

Parental Lock Function

This function can help restrict the listening of channels to children of appropriate age levels only. For information on setting the Parental Control passcode, see "Setting the Parental Lock" (page @@).
When a locked channel is selected, "Channel <xxx> Locked" is displayed and then the numeric keypad appears for you to enter the passcode.

Input the 4-digit passcode you set in "Setting the Parental Lock" (page @@).
The initial number is 0000.

- *If you input a wrong passcode, "Incorrect Pass Code entered" is displayed.*
- *After entering the correct passcode, you can access all locked channels without entering the passcode again until the unit is powered off and then back on.*

Using Jump Memory and Jump Recall function

The Jump Channel is a special channel that you can jump to with the press of a dedicated button and then jump back to the previous channel. This channel is often used to select your favorite SiriusXM traffic and weather report channel.

1 To store the Jump channel in memory, touch and hold [➡] (Jump) for at least 2 seconds.

2 Touch [➡] (Jump) to recall and tune to the saved Jump channel.

3 Touch [➡] (Jump) again to receive the previous channel.

- *While receiving the Jump channel, you cannot perform other operations.*
- *Only one channel can be stored as the jump source channel. When you want to store a new channel, the old channel will be cleared and the new one will be memorized.*

Storing the Tag information

iTunes Tagging lets you tag songs heard on SiriusXM channels. Using this unit in conjunction with an optional SiriusXM Tuner and a Tagging compatible iPod/iPhone, you can tag the music that you listen to, then transfer the tag information to your iPod/iPhone, and later, when your iPod/iPhone is connected to iTunes, you can preview, buy and download your tagged songs. For details, refer to the Owner's Manual of the Tagging compatible iPod/iPhone.
The "Tag" indicator will appear when a song playing on a SiriusXM channel has tag information available.

When Tagging is available, the "Tag" indicator is shown. When a desired song is heard on an SiriusXM channel, touch the [🏷] (Tag) to save its tag information.

Tag indicator
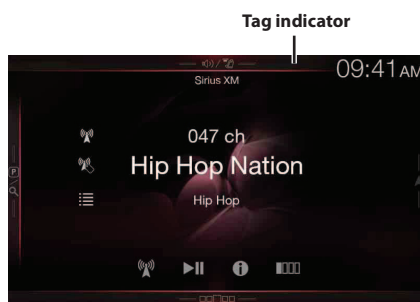
If no iPod/iPhone is connected, "Tag count X" is displayed (X is the total amount of the tag information stored in this unit).

- *During tagging, the iPod/iPhone takes priority to save the tag information. If no iPod/iPhone is connected, the tag information is saved to this unit.*
- *When the memory of iPod/iPhone is full, "iPod memory full." is displayed. The tag information will be stored to the unit.*
- *If the tagging operation is interrupted by a hands-free phone call, the tagging operation will be canceled and the unit will display "Cannot Tag".*
- *This unit can store up to 50 pieces of tag information. When the memory of the unit is full, "Tag count 50. Tuner memory full. Connect iPod." may be displayed.*
- *When the iPod/iPhone is disconnected from the unit during tagging, its tag information will be stored in the unit.*
- *If there is stored tag information on the unit, when an iPod/iPhone supporting the tag function is connected, the stored tag information will be transferred to the iPod/iPhone automatically. When the iPod/iPhone memory becomes full, "iPod memory full <xx> remaining." may be displayed, and any remaining tag information on the unit will not be transferred to the iPod/iPhone.*
- *If tag information already exists, "Already Tagged" will be displayed when you try to tag information again.*

HDMI Device (Optional)

Devices supporting HDMI can connect and play back through this unit (for example, an optional DVE-5300 (DVD Player), iPhone or other Smartphones). When making HDMI connections, you need to set HDMI on the unit suitable for the connected device. For details, see "HDMI Setup" (page 45).

- *The HDMI/MHL connecting cable differs depending on the connected device corresponding to HDMI. Prepare optional HDMI/MHL connecting cable sets suitable for your device.*

When you connect an optional DVE-5300 (DVD Player), you can operate it from the unit. For details on how to operate the DVD player, see "DVD Player Operation" (page 69).

For details on how to operate iPhones and Smartphones, see "HDMI Operation" (page 78).

- *The HDMI connector is for use exclusively with a standard DVD Player. Other HDMI devices (i.e. iPhone, etc.) cannot be used.*

DVD Player Operation

You can operate discs using the Remote Control unit supplied with the DVE-5300 (DVD Player). For detailed notes on handling and operating the Remote Control unit, see "About Remote Control Operation (X110 with DVE-5300X only)" (page 97).

- *For precautions concerning the use of discs, usable discs, and formats, see "Cautions about Discs (X110 with DVE-5300X only)" (page 99) and "About the Supported Formats" (page 101).*
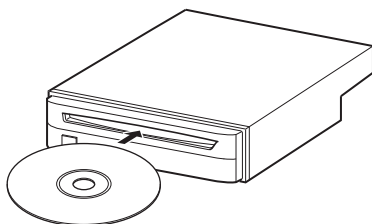
Inserting/Ejecting a Disc

Inserting the Disc

Insert the disc with the label side facing up.

For X110 with DVE-5300X
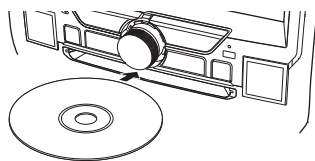
For X108U/INE-W967HD (DVE-5300)

Insert the disc until it is automatically pulled into the unit.

- *Do not touch the surface of the disc directly with your fingers.*

- *Before inserting or removing the disc, always turn the ignition key to ACC or ON.*
- *You cannot remove or insert the disc with the ignition key turned to OFF.*

Removing the Disc

Press ⏏ (Eject) button.
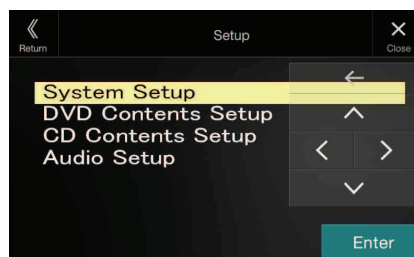When the disc has been ejected part way, take it out.

- *Press the [⏏] (Eject) button on the front panel of the optional DVD Player (DVE-5300).*
- *If the disc cannot be ejected by pressing [⏏] (Eject), press and hold [⏏] (Eject) again for at least 2 seconds.*

DVD Player SETUP

You can setup only when a disc is not inserted or playback pauses.

1 Touch [⚙] (Setup).
The Setup main screen is displayed.

Setting items:
System Setup / DVD Contents Setup / CD Contents Setup / Audio Setup

2 Touch [⋀] or [⋁] to select the setting item.

3 Touch [Enter] , then touch [⟨], [⟩], [⋀] or [⋁] to change the setting item.

4 Touch [✕] to return to the main source screen.

- *Touch [《] (Return) to return to the previous display.*

System Setup

Switching the Bar Color

Select the colors (8) used for highlighting items in the System Setup screen.

Setting items:
Bar Color
Setting contents:
Blue / Green / Light blue / Amber (Initial setting) / Aqua blue / Yellow / Red / White

Setting the TV Screen Mode

Setting item:
TV Screen → Aspect
Setting contents:
16:9 (Initial setting) / 4:3LB / 4:3PS

- *For some discs, the picture may not be set to the selected screen size. (For details, refer to the explanation on the disc's jacket.)*
- *You can also switch the TV Screen mode by touching [▭] (Display Mode) on the display of this unit. For details, see "Switching Display Modes (During Video File Play Back)" (page 60).*

4:3 LETTER BOX:
Select this when connected to a conventional 4:3 size (normal TV aspect ratio) monitor. There may be black stripes visible at the top and bottom of the screen (when playing a 16:9 size movie). The width of these stripes will depend upon the original aspect ratio of the theatrical release of the movie.

4:3 PAN-SCAN:
Select this when connected to a conventional 4:3 size monitor. The picture will fill the entire TV screen. However, due to the mismatch in aspect ratio, parts of the movie at the extreme left and right sides will not be visible (when playing a 16:9 size movie).

16:9 WIDE:
Select this when connected to a wide screen TV. This is the factory setting.

Delaying Image Output

Use this function when an external audio processor is connected. Depending on the connected audio processor, the audio and image currently played back may not be output at the same time. In this case, you can output an image delayed by 0.1 second by setting to On.

Setting item:
Video Delay
Setting contents:
Off (Initial setting) / On

On: Output image is delayed by 0.1 second.

- *If a disc with a high compression rate is played back, the image and audio may be distorted.*

Returning to the Initial Setting

You can return the contents you previously set to the initial factory settings.

Setting item:
Setup Initialize
Setting contents:
Yes / No (Initial setting)

Yes: Returns to the initial setting.

No: Does not returns to the initial setting.

DVD Contents Setup

Setting the language

The audio language, subtitle language and menu language can be set according to your preferences.
Once set, this becomes the default language. This function is convenient when you always want to listen in English. (Not all discs allow changing the default language. If not, the factory default language applies.)

Setting item:
Languages
Setting contents:
Audio / Subtitle / Menu

Audio: Set the audio track language.

Subtitle: Set the language of the subtitles displayed on the screen.

Menu: Set the language used for the menus (title menu, etc.).

Further Setting contents:
Auto (Initial setting) / Off (Subtitle only) / English / French / Japanese / Italian / German / Swedish / Spanish / Chinese / Russian / Others

Auto: The disc is played with the audio language or subtitle language set as the priority language for the disc.

Off: Subtitles are not displayed. (Subtitle only)

Others: Set this to play the disc with a language other than one of the languages displayed. Touch **[Enter]**, then use the numeric keypad ("0" to "9") to input the 4-digit language code. Then touch **[Enter]** again. For the language codes, refer to "List of Language Codes" (page 104).

- *If you change the language setting when the disc is in the unit, the setting is decided with one of the following operations.*
  - *Disc eject.*
  - *Turn OFF the main unit.*
  - *Switch the source on the head unit.*
- *To temporarily change the language of the current disc, either do so from the DVD menu or using the operation described in the section "Switching the Audio Tracks" (page 77).*
- *If the disc does not include the selected language, the disc's default language is set.*
- *Languages set upon shipment from the factory:*
  Audio language : Auto
  Subtitle language : Auto
  Menu language : Auto
- *Touch [◁◁] (Return) to return to the previous display.*

CD Contents Setup

Playing MP3/WMA/AAC/WAV Data

Setting item:
CD Play Mode
Setting contents:
CD-DA / Compress (Initial setting)
This unit can play back CDs containing both CD and MP3/WMA/AAC/WAV data (created in Enhanced CD (CD Extra) format).

CD-DA: Only CD data can be played back.
Compress: Only MP3/WMA/AAC/WAV data can be playedback.

Setting the Video CD Play Mode

When playing a Playback Control (PBC) enabled video CD, you can choose to set PBC On or Off.

Setting item:
VCD Play Mode
Setting contents:
PBC On (Initial setting) / PBC Off

PBC On: The PBC menu is displayed.
PBC Off: The PBC menu is not displayed.

- *You can set PBC On or Off directly by pressing MENU.*

Displaying the Disc Status Automatically (CD/MP3/WMA/AAC/WAV only)

When playing a CD/MP3/WMA/AAC/WAV file, you can choose to display the Disc Status (track number, etc.) automatically.

Setting item:
Audio Display
Setting contents:
Off / On (Initial setting)

On: The Disc Status is displayed automatically while playing back.
Off: Disc Status is not displayed automatically while playing back.

Audio Setup

Setting the Digital Output

Use the following procedure to set the digital audio signal output from the DVE-5300 (DVD Player).

Setting item:
Digital Out
Output Modes:
Dolby D / DTS
Setting contents:
Bitstream / LPCM (Initial setting)

Bitstream: Select "Bitstream" when you want to connect a digital audio processor to play Dolby Digital or DTS audio. When "Bitstream" is selected, the HDMI audio will be muted. The DVE-5300 (DVD Player) optical output must be used for the external processor.
LPCM: The audio signal recorded on the disc is converted to 48 kHz/16 bit (for DVDs) or 44.1 kHz (for video CDs and CDs) linear PCM audio signals for output.

- *Touch [⟨⟨] (Return) will return to the previous screen.*
- *Set to "LPCM" to connect to the unit.*

Digital audio output

Disc	Audio recording format		Digital output setting	Optical digital audio output (when a digital audio processor is connected)	Digital audio output (HDMI output)
Format	Fs	Q			
LPCM (DVD, CD)	48/96kHz	16/20/24bit	Bitstream	LPCM 2ch Down mix (48kHz/16bit)	—
			LPCM	LPCM 2ch Down mix (48kHz/16bit)	LPCM 2ch Down mix (48kHz/16bit)
	44.1kHz	16bit	Bitstream	LPCM 2ch (44.1kHz/16bit)	—
			LPCM	LPCM 2ch (44.1kHz/16bit)	LPCM 2ch (44.1kHz/16bit)
Dolby Digital (DVD)	48kHz	16/18/20bit	Bitstream	Bit stream (Max 7.1ch)	—
			LPCM	LPCM Encode 2ch Down mix (48kHz/16bit)	LPCM Encode 2ch Down mix (48kHz/16bit)
DTS (DVD, CD)	48/96kHz	16/20/24bit	Bitstream	Bit stream (Max 6.1ch)	—
			LPCM	LPCM Encode 2ch Down mix (48kHz/16bit)	LPCM Encode 2ch Down mix (48kHz/16bit)
	44.1kHz	16/20/24bit	Bitstream	Bit stream (Max 5.1ch)	—
			LPCM	LPCM Encode 2ch Down mix (44.1kHz/16bit)	LPCM Encode 2ch Down mix (44.1kHz/16bit)
MPEG1 (DVD, Video CD)	48kHz	16bit	Bitstream	Bitstream (Max 5.1ch)	—
			LPCM	LPCM Encode 2ch Down mix (48kHz/16bit)	LPCM Encode 2ch Down mix (48kHz/16bit)
	44.1kHz	16bit	Bitstream	Bit stream	—
			LPCM	LPCM Encode 2ch (44.1kHz/16bit)	LPCM Encode 2ch (44.1kHz/16bit)
MPEG2 (DVD)	48kHz	16bit	Bitstream	Bit stream (Max 5.1ch)	—
			LPCM	LPCM Encode 2ch Down mix (48kHz/16bit)	LPCM Encode 2ch Down mix (48kHz/16bit)
MP3/ WMA/ AAC	8/11.025/ 12/16/ 22.05/24/ 32/44.1/ 48kHz	16bit	Bitstream	LPCM Encode 2ch (32kHz, 44.1kHz or 48kHz/16bit)	—
			LPCM	LPCM Encode 2ch (32kHz, 44.1kHz or 48kHz/16bit)	LPCM Encode 2ch (32kHz, 44.1kHz or 48kHz/16bit)
WAV	44.1kHz	16bit	Bitstream	LPCM Encode 2ch (44.1kHz/16bit)	—
			LPCM	LPCM Encode 2ch (44.1kHz/16bit)	LPCM Encode 2ch (44.1kHz/16bit)

Setting the Downmix Mode

This function applies to Dolby Digital, DTS stream sound.

Setting item:
Downmix Mode
Setting contents:
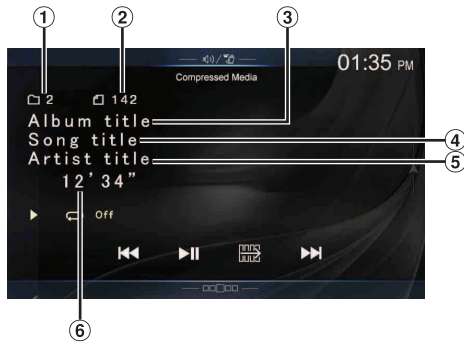Stereo (Initial setting) / Surround Encoded

Stereo: Stereo Downmix.
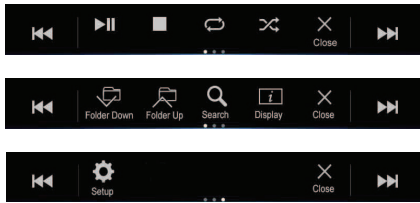Surround Encoded: Surround compatible Downmix.

CD/MP3/WMA/AAC/WAV

■ **MP3/WMA/AAC main screen example**

Info mode

Function mode

① Current song no.
② Total song no.
③ Album title
④ Song title
⑤ Artist title
⑥ Elapsed time

- *If there is no CD text, the message "No Text" appears.*

Playback

1 **Press the ♪ (AUDIO) button to select DVD (CD) mode.**
The display shows the DVD (CD) mode screen.
- *You can also select and change from the Menu screen (page 21) or Favorite screen (page 24).*

When a disc is inserted into the disc slot of the DVD Player, with the label side facing up, the unit starts playback of the disc.

2 **Touch [|◄◄] or [►►|] to select the desired track (file).**

Returning to the beginning of the current (or previous) track (file):
Touch [|◄◄].

Fast reverse :
Touch and hold [|◄◄].

Advancing to the beginning of the next track (file) :
Touch [►►|].

Fast forward :
Touch and hold [►►|].

- *The ◄◄, ►► buttons provide the same functions above.*

3 **To pause playback, touch [►/||].**

- *The unit can play back MP3/WMA/AAC/WAV files saved to CD or DVD.*
  For further information about playing or storing MP3/WMA/AAC/WAV files, see pages 101 and 102 before using the unit.
- *Any file protected by DRM (Digital Rights Management) copy protection, cannot be played back on this unit.*
- *If a disc contains both audio data and MP3/WMA/AAC/WAV data, this unit plays back only the audio data.*
- *The track display for CD audio data playback shows the track numbers recorded on the disc.*
- *If an MP3/WMA/AAC/WAV disc with many files and folders is played, it may take longer than normal to start playback.*
- *The playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back.*
- *For details on switching the HDMI source when you have connected the HDMI selector and two HDMI devices, see "HDMI Operation" (page @@).*

Stopping Playback

Touch [■] during playback.
"STOP" indicator is displayed, and playback stops.

- *Playback starts from the beginning when [►/||] is touched while playback is stopped.*

Repeat Play

Touch [⟳] to repeatedly play back.
The tracks (files) will be played repeatedly.
The repeat mode switches every time the button is touched.

CD:

Track Repeat → Off → Track Repeat

MP3/WMA/AAC:

Repeat File → Repeat Folder* → Off → Repeat File

* Only files in a folder are repeatedly played back.

- *If the Repeat Play mode is activated during MIX playback, the MIX mode will be canceled.*

MIX (Random Play)

Touch [⤨] during playback.
The tracks (files) on the disc will be played back in a random sequence.

The MIX mode switches every time **[⤨]** is touched.

CD:

MIX → Off → MIX

MP3/WMA/AAC:

MIX Folder*¹ → MIX Disc*² → Off → MIX Folder*¹

*1 Only files in a folder are played back in random sequence.
*2 All files on the disc will be played back in a random sequence.

- If the MIX mode is activated during Repeat playback, the Repeat Play mode will be canceled.
- If you select a track by using the search mode, the MIX play mode will be canceled.

File/Folder Name Search (Concerning MP3/WMA/AAC/WAV)

1 **Touch [🔍] (Search) during playback.**
The search mode is activated.
The mode is changed to the search mode, and the list select panel appears.

2 **Touch [⋀] or [⋁] in the list select panel to select Folder or File, then touch [Enter].**
When selecting Folder, select File following same procedure, then touch **[Enter]**.

- When there are 9 or more names on the list, a page number is displayed. Touch [<] or [>] to change the page.
- Touch [←] or [→] to change the list select panel location from right to left or vice-versa.
- To return to the previous hierarchy, touch [<].

Selecting Folders (Concerning MP3/WMA/AAC/WAV)

Touch [⊟] (Folder Down) or [⊟] (Folder Up) to select the folder.

Info Mode Function

You can display the DISC information.

1 **During playback, touch [i] (Display).**
The playback status is displayed.

2 **The playback status display closes when [i] (Display) is touched.**

- For details on the display example, see Info mode in "MP3/WMA/AAC main screen example" (page 72).

DVD

■ **DVD Video main screen example**
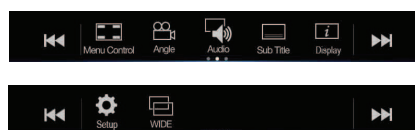
Function mode

Info mode

① Title no./Chapter no.
② Audio signal output/Subtitle/Angle
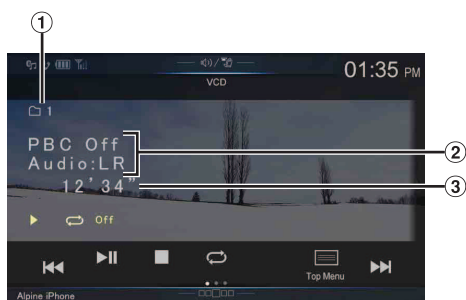③ Elapsed time

■ **Video CD main screen example**
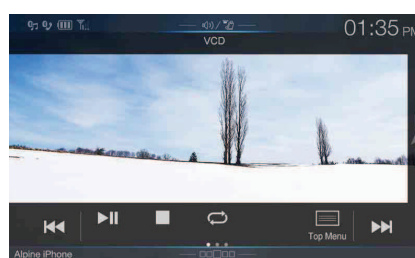
Function mode

Info mode

① Current track no.
② Playback control (PBC)/Current audio status
③ Elapsed time

Disc types that can be used for each heading are represented by the following marks.

DVD-V — DVD Commercial Video discs (used for the distribution of movies, etc.) or a DVD-R/DVD-RW, DVD+R/DVD+RW recorded in a video mode can be used.

V CD — Video-CD discs can be used.

The DVD operation screen display

Touch the screen while the DVD playback screen is displayed.
To display the operation screen, touch **[Control]**.

- *The operation screen changes to the visual screen in the DVD mode for 5 seconds after an operation has been performed.*
- *If you try to activate the DVD while driving, the display will show the warning-Picture off for your safety.*
- *Some operations cannot be carried out depending on the disc or playback screen.*

Playing a Disc DVD-V V CD

⚠ **WARNING**
It is dangerous for the driver to watch the DVD while driving the vehicle. The driver may be distracted from looking ahead and an accident could occur.

Install the unit correctly so that the driver cannot watch DVD unless the vehicle is stopped and the emergency brake is applied.

If the unit is not installed correctly, the driver will be able to watch DVDs while driving the vehicle and may be distracted and could cause an accident. The driver or other people could be severely injured.

⚠ **CAUTION**
- **Not all functions will operate for every DVD. See the individual DVD's instructions for details on the features supported.**
- **Fingerprints on a disc may adversely affect playback. If a problem occurs, remove the disc and check for fingerprints on the playback side. Clean the disc if necessary.**
- **If you switch the power or Ignition key OFF or change sources during playback, playback will continue where you left off when you resume playback.**
- **If you try to perform an invalid operation (based on the type of disc being played), the following mark is displayed on the monitor screen:** ⊘

- **Play Position Memory Function**
  Even if you turn power off or switch the Ignition key to OFF during playback or change the source, playback will continue from the point where playback stopped when the power is turned ON again.

1 **Press the ♪ (AUDIO) button to select DVD (CD) mode.**
The display shows the DVD (CD) mode screen.
When a disc is inserted into the disc slot of the DVD Player, with the label side facing up, the unit starts playback of the disc.

- *The reverse side of a double-sided DVD will not be played automatically.*
  Remove the disc, turn it over, and reinsert it.
- *DO NOT insert discs containing maps for the navigation system. Doing so could result in damage.*
- *For details on switching the HDMI source when you have connected the HDMI selector and two HDMI devices, see "HDMI Operation" (page @@).*

### If a Menu Screen Appears

On DVD mode, menu screens may appear automatically. If this happens, perform the operation described below to start playback.

Direct Menu Operations DVD-V

1 Touch the screen while the DVD menu is being displayed.
Directly touch operation switches displayed on the screen to operate.
- *To display the operation screen, touch [Control].*

2 Touch the DVD menu directly.
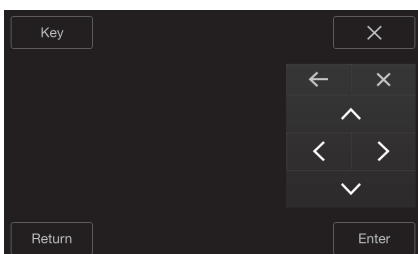- *Some operations cannot be performed depending on the disc.*

Menu Operations DVD-V V CD

1 Touch [▭] (Menu Control).
The menu operation mode will be displayed.
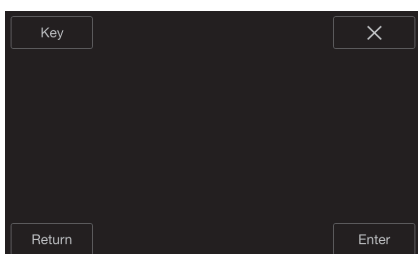
2 Touch [Key].
The Key panel is displayed.
Touch [Return] to return to the previous display.

3 Select a desired menu item by touching [∨], [∧], [⟨] or [⟩].

- *Touch [⬅] or [➡] to change the Key panel location from right to left or vice-versa.*
- *Touching [✕] in the operation panel returns to the screen in step 1.*
- *Touching [Key] displays the numeric keypad input mode screen. For details of the numeric keypad input mode screen, see "Numeric Keypad Input Operations" (page 75).*

4 Touch [Enter] to confirm the selected item.

Numeric Keypad Input Operations DVD-V

1 Touch [key] again in the menu operation mode.
The numeric keypad input mode screen appears

2 Touch a desired number.
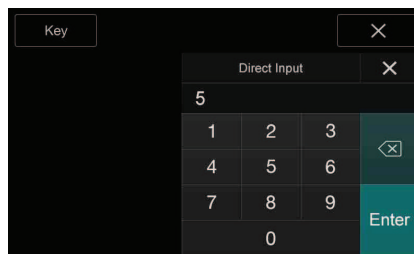
Touch [⟨✕] to delete an entered number.
To delete all the numbers you have entered, touch [⟨✕] for at least 2 seconds.

3 Touch [Enter] on the numeric keypad input mode screen to confirm your selection.
Touch [✕] to hide the keypad display.

Displaying the Top Menu Screen
DVD-V V CD

When a DVD contains two or more titles, the top menu screen appears.

Touch [☰] (Top Menu).
The top menu screen appears.

- *To perform necessary operations, see "If a Menu Screen Appears" (page 75).*

Displaying the Menu Screen DVD-V V CD

With a DVD having two or more menus, a menu screen will appear for the programmes available, in addition to the main programmes.

Touch [☰] (Menu).
The Root menu screen appears.

- *To perform necessary operations, see "If a Menu Screen Appears" (page 75).*

Playing Still Frames (Pausing) DVD-V V CD

1 During playback, touch [▶/❙❙].

2 Touch [▶/❙❙] to resume playback.

- *No sound is played during the still frame mode.*
- *The image or sound may stop temporarily when playback starts from the pause mode. This is not a malfunction.*

Stopping Playback (DVD-V) (V CD)

Touch [■] during playback.
"■" indicator is displayed, and playback stops.

- *Playback starts from the beginning when [▶/❚❚] is touched while playback is stopped.*

Fast-forwarding/Fast-reversing (DVD-V) (V CD)

1 During playback, touch and hold [◀◀] (Fast-reverse) or touch and hold [▶▶] (Fast-forward).
Touch and hold for more than 1 second to forward/reverse at double speed.
Every time you touch [◀◀]/[▶▶] during fast- reverse/fast-forward, the speed changes as follows: 2x → 8x → 32x → 2x.

2 Touch [▶/❚❚] to return to normal playback.

- *No sound is played back during fast-forwarding/fast-reversing.*
- *On DVD mode, the menu screen may reappear during fast-forwarding/fast-reversing.*
- *This operation may not be possible on certain discs.*

Finding the Beginnings of Chapters/Tracks/Files (DVD-V) (V CD)

During playback, touch [◀◀] or [▶▶].
The chapter/track/file switches each time the button is touched, and playback of the selected chapter/track/file starts.

▶▶: Touch this to start playback from the beginning of the following chapter, track or file.

◀◀: Touch this to start playback from the beginning of the current chapter, track or file.

- *Some DVDs do not have chapters.*
- *Be sure to turn PBC off before starting the search. See "Setting the Video CD Play Mode" (page 71).*

Supplementary explanations
"**Chapters**" are divisions of movies or musical selections on DVDs.
"**Tracks**" are divisions of movies or musical selections on Video CD.

Forward/Reverse frame-by-frame Playback (DVD-V) (V CD)

1 In the pause mode, touch [◀❘] or [❘▶].
The picture advances by one frame each time the button is touched.

2 Touch [▶/❚❚] to return to normal mode.

- *No sound is output during forward frame-by-frame playback.*
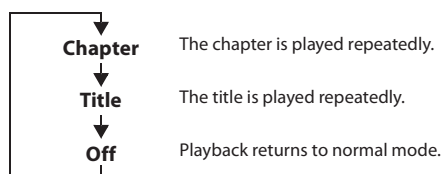- *You can only execute reverse frame-by frame playback when playing DVD-V.*

Repeat Playback (DVD-V) (V CD)

Use this function to play the disc's titles, chapters or tracks, etc., repeatedly.

Touch [⟳] to repeatedly play back.
The repeat mode switches every time the button is touched.

DVD Video

Chapter	The chapter is played repeatedly.
Title	The title is played repeatedly.
Off	Playback returns to normal mode.

- *The Repeat mode is always turned off when [⟳] is touched and held for at least 2 seconds.*
- *Only discs containing a Playlist can be displayed.*

Video CD

Track	The track is played repeatedly.
Off	The disc is played repeatedly.
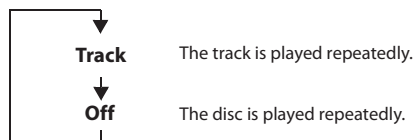
- *Display may vary depending on the connected devices.*
- *The track/disc repeat modes cannot be used on Video CDs with playback control (PBC). These modes can be carried out after turning PBC off. See "Setting the Video CD Play Mode" (page 71).*
- *For some discs it is not possible to switch the repeat mode.*

Searching by Title Number DVD-V

Use this function to easily find positions on the DVD using the DVD's titles. Perform operations while playback is stopped.

1 Touch [▭▭] (Menu Control).
The menu operation mode screen appears.

2 Touch [Key] again in the menu operation mode.

3 Enter a desired title by touching its number.
See page 75 for operation of the numeric keypad.

4 Touch [Enter].
Playback will start from the number selected.

5 Touch [✕].

- This function cannot be used on discs on which no title numbers are recorded.
- Some disc may not accept any operation.

Searching Directly by Chapter Number
DVD-V   V CD

Use this function to easily move to the beginnings of the chapters on the disc. Perform operations during playback, during PRE-STOP or while playback is paused.

1 Touch [▭▭] (Menu Control).
The menu operation mode screen appears.

2 Touch [Key] again in the menu operation mode.

3 Touch and enter the chapter number you want to play.
See page 75 for operation of the numeric keypad.

4 Touch [Enter] to confirm your selection.
Playback will start from the selected chapter.

5 Touch [✕].

- This function is not available for a disc on which chapters are not stored.

Switching the Angle DVD-V

On DVDs in which scenes have been filmed from multiple angles, the angle can be switched during playback.

Touch [📹] (Angle).
The angle switches between the angles recorded on the disc every time the button is touched.

- Some time may be required for the angle to change.
- Depending on the disc, the angle may switch in one of two ways.
  - Seamless: The angle switches smoothly.
  - Non-seamless: When the angle is switched, a still picture is displayed first, after which the angle switches.

Switching the Audio Tracks DVD-V   V CD

DVDs with multiple audio tracks or languages allow switching the sound during playback.

Touch [🔊] (Audio).
The sound switches between the alternate audio tracks recorded on the disc every time the button is touched.

- The alternate track selected becomes the default setting every time the power is turned on or the disc is replaced. If the disc does not include that track, the disc's default language is selected instead.
- Not all discs will allow changing the alternate audio tracks during playback. In these cases, select audio tracks from the DVDs menu.
- There may be a delay before the selected alternate track begins to play.

Video CDs with multiplex audio

Touch [🔊] (Audio).
The left and right channels will be output as shown below, each time the button is touched.
Audio: LL → Audio: RR → Audio: LR → Audio: LR

Switching the Subtitles (Subtitle Language)
DVD-V

With DVDs on which multiple subtitle languages are recorded, the subtitle language can be switched during playback; moreover, subtitles can be hidden.

Touch [▭] (Sub Title).
Touching this button repeatedly selects sequentially the subtitle languages recorded on the disc, and then turns the subtitles OFF.

- There may be a delay before the selected subtitle appears.
- Not all discs will allow changing the subtitles during playback. In these cases, select subtitles from the DVDs menu.
- The subtitle language selected becomes the default setting every time the power is turned on or the disc is replaced. If the disc does not include that language, the disc's default language is selected instead. However, the subtitle language may differ depending on the disc.
- For some discs, the subtitles will be displayed even when this is set to OFF. However, the subtitle language may differ depending on the disc.

Info Mode Function

You can display the DISC information.

1 During playback, touch [i] (Display).
The playback status is displayed.

2 The playback status display closes when [i] (Display) is touched.

- For details on the display example, see Info mode in "DVD Video/Video CD main screen example" (pages 73, 74).

Switching Display Modes

You can switch the Display Mode by touching [▭] **(Display Mode)**. For details, see "Switching Display Modes (During Video File Play Back)" (page 60).

HDMI Operation

■ **iPhone, Smartphone, etc.**

The output of your electronic device will be mirrored on this unit through the HDMI connector. Control from this unit is not possible.

- *The electronic device must possess an HDMI output interface.*
- *Not all devices with an HDMI output interface can be recognized by this unit.*
- *Use only the Alpine Special HDMI connection cable.*

1 **Press the ♪ (AUDIO) button to select HDMI mode.**
The display shows the HDMI mode screen.
- *You can select and change the source in the Menu screen (page 21) or Favorite screen (page 24).*

2 **In HDMI player mode, the screen of the device displays the content of electronic equipment by mirror image.**
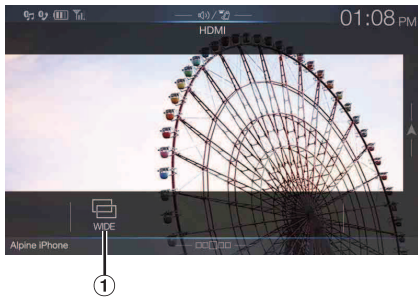
① You can select Display Mode.
For details, see "Switching Display Modes (During Video File Play Back)" (page 60).

Switching the source when two HDMI devices are connected

You can switch the source only when you have connected the HDMI selector and "Setting the HDMI selector On/Off" is set to "On."

Bluetooth Operation

Setup Before Using

About Bluetooth

Bluetooth is a wireless technology allowing communication between a mobile device or personal computer over short distances. This enables a hands-free call or data transmission between Bluetooth compatible devices. Bluetooth transmission is available in the unlicensed 2.4 GHz spectrum if the distance between devices is within 10 meters. For details, refer to the Bluetooth website (http://www.Bluetooth.com/).

- *Depending on the Bluetooth version, a Bluetooth compatible device may not be able to communicate with this unit.*
- *Proper function of this unit with all Bluetooth compatible devices is not guaranteed. For handling of the Bluetooth compatible device, consult your Alpine dealer or Alpine website.*
- *Depending on the surroundings, Bluetooth wireless connection may be unstable.*
- *When you place a call, or perform setup operations, be sure to stop your car in a safe place.*
- *Depending on the connected Bluetooth compatible device(s), the function may differ. Also refer to the Owner's Manual of the connected device(s).*

About the Hands-free Phone

Hands-free calls are possible when using a HFP (Hands-Free Profile) compatible mobile phone with this unit.

- *Avoid performing a hands-free call in heavy traffic or on narrow or winding streets.*
- *Close the windows while calling to reduce background noise.*
- *If both calling parties are using hands-free devices, or the call is made in a noisy location, difficulty hearing the other person's voice is normal.*
- *Depending on telephone line conditions or certain mobile devices used, voices may sound unnatural.*
- *When using a microphone, speak as directly as you can into the microphone to obtain the best sound quality.*
- *Certain mobile phone features are dependent on the capabilities and settings of your service provider's network. Additionally, certain features may not be activated by your service provider, and/or the provider's network settings may limit the feature's functionality.*
  Always contact your service provider about feature availability and functionality.
  All features, functionality, and other product specifications, as well as the information contained in the Owner's Manual are based upon the latest available information and are believed to be accurate at the time of printing.
  Alpine reserves the right to change or modify any information or specifications without notice or obligation.

Before Using Bluetooth

Before using the hands-free phone/audio function, the following settings need to be made.

1 Set "Bluetooth" to "On" (☑).

2 Register a Bluetooth device in this unit (page 30).

- *See "Bluetooth Setup" (page 30).*
- *You can search for this unit using a Bluetooth compatible device, and then connect that Bluetooth compatible device to this unit. The device name of this unit is "ALPINE NAVI" and the initial number of the passcode is "0000." Also refer to the Owner's Manual of the connected device(s).*
- *Before using the hands-free function, make sure "Setting the Hands-free Connection" (page @@) is set to "Aftermarket."*
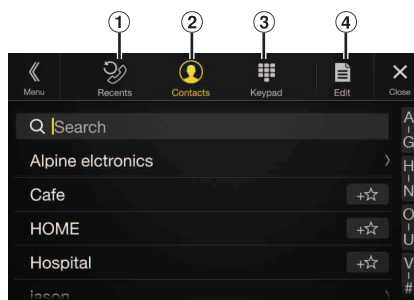
Hands-free Phone Control

Touch [**Phone**] in the Menu screen to display the Phone menu screen (page 79).

[Phone] button

■ **Phone menu screen example**

① Recent Events list*
You can display up to 60 items, such as phone numbers of the most recent incoming calls, missed calls and outgoing calls, and contact names that are registered in the Phone Book. When 60 items exist in the list, the oldest item is deleted when a further item is to be added.
② Contacts list*
You can make a phone call from the Phone Book, or edit the Phone book.
③ Keypad screen
Use to type a phone number.
④ Edit*
Use to edit the Contacts list.

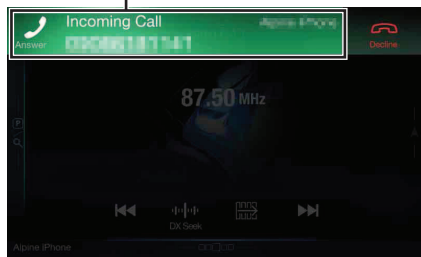* *When you connect two Hands-Free Phones, the information of the Bluetooth device set to Priority1 is displayed.*

Answering a Call

Incoming calls are announced by the received call ring tone and a displayed message (PHONE No., etc.).
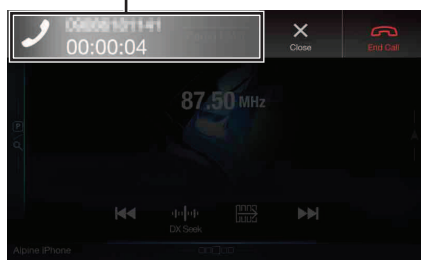
1   An incoming call triggers the ringtone and an incoming call display.

Incoming call notification screen

2   Touch incoming call notification screen.
The call starts.

Call info area

- During a call, the audio for the current mode on the unit is muted. After calling, playback will resume.
- When the caller's number is transmitted to the system, if the caller's name is stored in the phone book, the name is displayed. If the name is not stored, the number is displayed. When neither the name or the number is unavailable, "Unknown" is displayed.
- Touch [ ] (Decline) to reject an incoming call.
- By touching the call info area during phone call, you can change to the Phone Operation screen and adjust the speech volume, etc. For details, see "Operations During a Conversation" (page 83).
- Touch [✕] during a conversation to hide the call info area. To display it again, Touch or swipe downward on [   ] on the upper part of the screen.
- During an incoming call or a conversation on the Priority1 (Priority2) Hands-Free Phone, if there is an incoming call on the Prority2 (Priority1) Hands-Free Phone, you cannot answer the call on the Prority2 (Priority1) Hands-Free Phone without first ending the call on the Prority1 (Priority2) Hands-Free Phone.

Hanging up the Telephone

1   Touch [ ] (End Call).
The call finishes.

Call Waiting Function

If a call comes in from another phone during a call, a notice is displayed on the screen. This function can only be used if the connected mobile phone has a call waiting function service included.
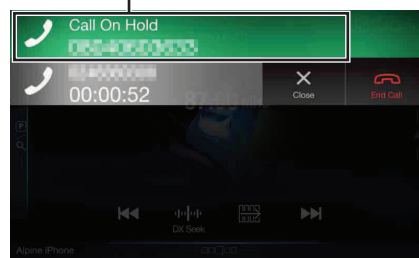
Second incoming call during a conversation in the call info area

Second incoming call notification screen
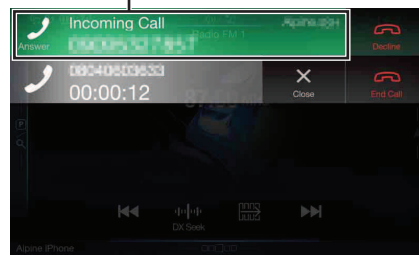
By touching the second incoming call notification screen, you can put the current call on hold and answer the second call.
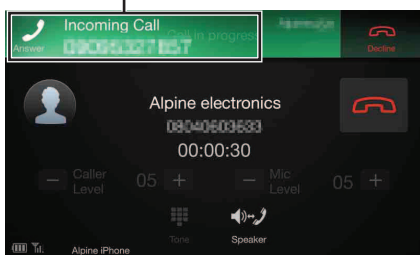
On-hold screen

- To switch a party, touch the on-hold screen.
- To finish a call, touch [ ] (End Call).

**Second incoming call during a conversation in the Phone Operation screen**

- *The display or operation may differ depending on the connected mobile phone or the caller's mobile phone.*

Second incoming call notification screen

By touching the second incoming call notification screen, you can put the current call on hold and answer the second call.

Call On Hold screen
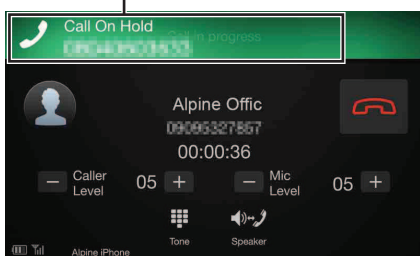
- *To switch a party, touch the on-hold screen.*
- *To finish a call, touch [📞] (End Call).*
- *This unit supports only the Call Waiting function of a mobile phone. The second call function and three-way calling function of a mobile phone cannot be operated from this unit. Also the screen display may malfunction.*

Calling

Calling by Favorite Function

You can make a phone call using the Short Cut function of numbers that have been registered in Favorite. For details, see "Favorite Function" (page 24).

1 **Press the ★ (Favorite) button.**
The Favorite screen is displayed.

Favorite screen
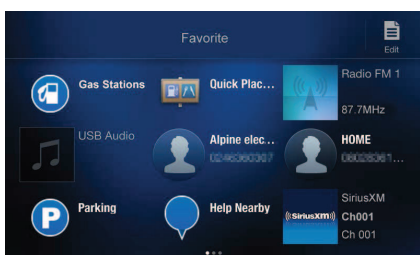
2 **Touch the Short Cut icon.**
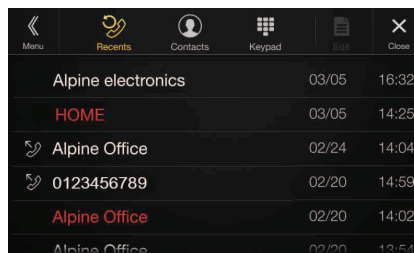A contact's name, phone number, and a confirmation message of the phone number are displayed.

3 **Touch [Call].**
The phone call is started.

Making a phone call using the Phone Menu

Making a phone call from the Recent Events list

1 **Touch [📞] (Recents) to change to the Recent Events list screen.**

Dialled history:
 📞 Names or Numbers/Date
Received history:
 Names or Numbers/Date
Missed Incoming history:
 Names or Numbers/Date

2 **Touch the name of the contact you want to call.**
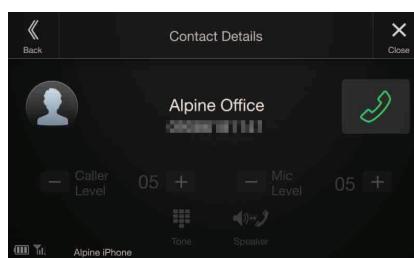The Detail info screen is displayed.

3 **Touch [📞].**
The phone call is started.

Calling from the Contacts list (Phone Book)

1 **Touch [👤] (Contacts) to change to the Contacts list screen.**

2 **Touch the name of the contact you want to call.**
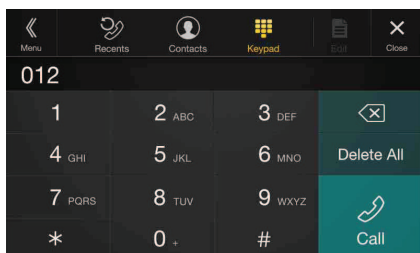The Phone Operation screen is displayed.

3 **Touch [📞].**
The phone call is started.

Entering a Phone Number to Make a Call

1 **Touch [ ] (Keypad).**
The number input screen (Keypad) appears.

Touch [ ] to delete an entered number.
Touch **[Delete All]** to delete all entered numbers.

2 **Enter the phone number you wish to call.**
- *You can enter up to 31 digits.*

3 **Touch [ ] (Call).**
A confirmation message of the phone number appears.

4 **Touch [Call].**
The phone call is started.

Using Voice Recognition function

You can use Siri function of your iPhone or make a telephone call by using voice operation of your smartphone.

Using Siri

You can use the Siri function of your iPhone. To use this function, set the Siri setting of your iPhone to ON.

- *Connect your iPhone to the unit via Bluetooth, then set to "Hands-free" or "Both" (page 30).*
- *The available functions differ depending on the connected iPhone.*
- *Ask Siri to play a track from the music library applies only to USB source.*
- *Siri and other streaming services are enabled by connecting to compatible smartphones that are able to receive data. Please ensure that cellular data and/or Wi-Fi is turned on in the smartphone to enjoy these features.*
- *Extensive use of Siri or other streaming services may increase your phone's data usage. Please check with your phone company to ensure you have an appropriate Data plan.*

1 **Press and hold the ♪ (AUDIO) button for at least 2 seconds.**
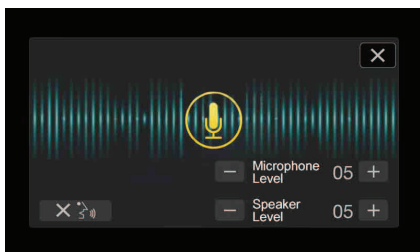
The Voice Control mode screen is displayed.

2 **Speak into the microphone supplied with this unit.**
- *If no speech is detected, the unit may pause depending on version of the connected iPhone. In that case, touch the microphone icon [ ] in the center of the Voice Control mode screen. You can continue to use the Voice Control mode.*

3 **To finish the Voice Control mode, touch [✕] or press and hold the ♪ (AUDIO) button for at least 2 seconds.**

- *Depending on the iPhone, the Siri function may finish automatically.*

Adjusting the volume

Adjust the speaker/microphone volumes in Voice Control mode.
Perform the same procedure to adjust the speaker/microphone volumes of hands-free phone.

Touch [−] or [+].
Adjust the speaker and microphone volumes.

Stopping input to the microphone

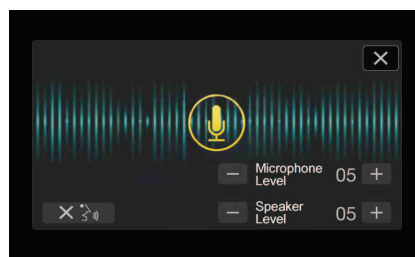If the surrounding sound (road noise, etc.) is loud, you may wish to cut input to the microphone for 3 seconds.

Touch [✕].

Voice Dial Function

You can make a telephone call by using voice operation.

- *Connect your smartphone to the unit via Bluetooth, then set to "Hands-free" or "Both" (page 30).*

1 **Press and hold the ♪ (AUDIO) button for at least 2 seconds.**

The Voice Dial mode screen is activated.

2 **Say the telephone number* or name* you want to call, into the microphone.**

- * *The number and name depend on the voice dial information stored in the smartphone.*

3 **To finish the Voice Dial mode, touch [✕] or press and hold the ♪ (AUDIO) button for at least 2 seconds.**

- *You can perform this operation only when a voice dial compatible smartphone is connected.*
- *The Voice Dial function performance depends on the recognition range of the smartphone and mounting location of the microphone. Note when the microphone is mounted.*
- *Voice dial operation depends on the function being available on the smartphone. For details, refer to the owner's manual of the smartphone.*
- *Depending on the smartphone, the Voice Dial operation may finish automatically.*

Adjusting the volume

Adjust the speaker/microphone volume in Voice Dial mode. Perform the same procedure to adjust the speaker/microphone volume of hands-free phone.

Touch [−] or [＋].
Adjust the speaker and microphone volumes.

Stopping input to the microphone

If the surrounding sound (road noise, etc.) is loud, you may wish to cut input to the microphone for 3 seconds.

**Touch [✕ ⠐]. **

Operations During a Conversation

Phone Operation screen

① Name and phone number
  - *If registered with a Group, the Group Name is also displayed. Although, depending on the connected mobile phone, it may not be displayed.*
② Conversation time

Adjusting the Speech Volume

You can adjust Caller Level and Mic. Level (Microphone Level) during a phone call.

Touch [−] or [＋].
You can adjust the volume in 11 levels.

Changing the Voice Output

The voice output for calls is switchable between car speakers and the mobile phone speaker.

Touch [🔊➛♪].

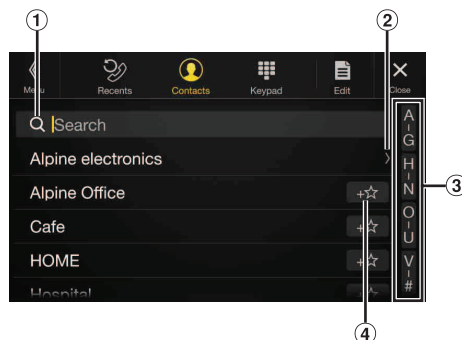 - *Depending on the mobile phone, this operation may not be possible.*

DTMF (Touch-Tone) Function

Transmits a DTMF (Touch-Tone) during a call.

1 Touch [▦] (Keypad).
The number input screen (Keypad) appears.

2 Input number.

  - *You can transmit a Touch-Tone signal during a call.*

Phone Book Function

Phone Book screen example

① Use to search by directly inputting a name or phone number with the Keypad.
For details, see "How to Input Characters and Numbers (Keypad)" (page 23).
② Displayed when multiple phone numbers are registered.
Touch [>] to display the registered phone number list.
③ Use to narrow down your search for names, etc.
For details, see "Alphabet Search Function" (page 59).
④ Touch [＋★] to register as Favorite.

Synchronizing the Phone Book

You can synchronize the system's phone book with the mobile phone's phone book.

1 Touch [▤] (Edit).

2 Touch [Download].

3 Touch [SYNC].
Synchronization of the phone books starts.

  - *You can store up to 1,000 registered name in the phone book.*
  - *You can store up to 5 phone numbers by one person's name.*

Adding the Phone Book

1 Touch [▤] (Edit).

2 Touch [Download].

3 Touch [Add].
Stays on standby for connection of the mobile phone.
  - *Touch [Cancel] to cancel the standby mode.*

4 The mobile phone accesses this unit and then transfers the phone book from the mobile phone to this unit.

  - *Mobile phone connection is canceled while the phone book is being transferred.*

Deleting the Phone Book Entries

Deleting One Entry from the Phone Book

1 **Touch [📝] (Edit).**

2 **Touch the checkbox [☐] of the contact name (or phone number) you want to delete. A tick (☑) appears in the checkbox.**
- *You can choose up to 10 names and numbers at a time.*

3 **Touch [🗑] (Delete).**
The confirmation screen is displayed.
If multiple phone numbers are registered, they are all deleted.

4 **Touch [OK].**
The selected number is deleted.

Deleting All Entries from the Phone Book

1 **Touch [📝] (Edit).**

2 **Touch [🗑] (Delete All).**
The confirmation screen is displayed.

3 **Touch [OK].**
All entries of the phone book are deleted.

Searching in the Phone Book

You can make a call using the phone book search function.

1 **Touch [🔍] (Search).**
The Input User Name screen (Keypad) is displayed.

2 **Input the string of letters of the name that you want to search, then touch [OK].**
A list of names beginning with the string of letters you entered is displayed.

3 **Touch the name you want to call.**
The Phone Operation screen is displayed.

4 **Touch [📞].**
The phone call is started.

- *For details of how to input characters using the keypad, see "How to Input Characters and Numbers (Keypad)" (page 23).*
- *If there are fewer than five registered items in the phone book, you cannot use the phone book search function.*
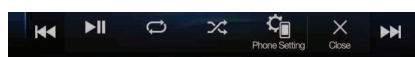
Bluetooth Audio

If a Bluetooth compatible mobile phone, portable player, etc. is connected by wireless, you can play back a song (operation is controllable from the unit).

- *Operation may vary, depending on the Bluetooth compatible device.*

■ Bluetooth Audio main screen example

Function mode

① Current track no./Total song no.
② Artist title
③ Song title
④ Album title
⑤ Elapsed time
⑥ Touch or swipe to the right to use the Quick Search mode and Full Search mode.

■ Quick Search mode screen example

Swipe vertically in the list to change pages.

⑦ Full Search button
Swipe to the right when using Full Search mode.

- *The displayed onscreen buttons may differ depending on the AVRCP version.*
- *Song title/Artist title/Album title/Elapsed time do not display for AVRCP Ver. 1.0.*

- *To play back audio, a mobile phone or a portable player conforming to A2DP (Advanced Audio Distribution Profile) or AVRCP (Audio/Video Remote Control Profile) is required.*
  Not all functions work with all devices.
- *During a call, sound on the Bluetooth audio source is paused.*

Compatible AVRCP versions: 1.0, 1.3, 1.4, 1.5

- *Available functions may differ depending on the AVRCP version.*

Playback

1 **Press the ♪ (AUDIO) button to select Bluetooth Audio mode.**

The display shows the Bluetooth Audio mode screen.
- *You can also select and change the source in the Menu screen (page 21) or the Favorite screen (page 24).*

2 **Touch [|◀◀] or [▶▶|] to select the desired track (file).**

Returning to the beginning of the current file:
Touch [|◀◀].

Fast backward the current file:
Touch and hold [|◀◀].

Advance to the beginning of the next file:
Touch [▶▶|].

Fast forward the current file:
Touch and hold [▶▶|].

- *The ◀◀, ▶▶ buttons provide the same functions above.*

3 **To pause playback, touch [▶/||].**

Repeat Play

Available for AVRCP Ver. 1.3, 1.4 and 1.5 only.

1 **Touch [⟲].**

The Repeat mode select pop up screen is displayed.
- *[⟲] displays the currently selected mode.*

2 **Select your desired Repeat mode.**

The selected Repeat mode changes the button.

All Track ⟲ALL :	Once all of the songs have finished playing, play back is repeated, starting with the first song.
Group ⟲GRP :	Only files in a group are repeatedly played back.
Single Track ⟲ :	Only the track currently playing is repeatedly played back.
Off ⟲ :	Repeat mode Off.

- *Operations may differ depending on the connected Bluetooth compatible device.*

Random Play

Available for AVRCP Ver. 1.3, 1.4 and 1.5 only.

1 **Touch [⤨].**

The Random Play mode select pop up screen is displayed.
- *The [⤨] button displays the currently selected mode.*

2 **Select your desired Random Play mode.**

The selected Random Play mode changes the button.

All Track ⤨ALL :	All songs in the BLUETOOTH compatible devices are played back in random sequence. Any one song does not play back again until all songs have been played back.
Group ⤨GRP :	A Group is selected randomly and songs in the Group are played back in order. After all songs are played in the Group, the next Group is selected randomly.
Off ⤨ :	Random mode Off.

- *Operations may differ depending on the connected Bluetooth compatible device.*

Search Function

Available for AVRCP Ver. 1.4 and 1.5 only.
The displayed list differs with the connected Bluetooth device.
You can search for your desired song by using one of two modes; the Quick Search mode and the Full Search mode.

Quick Search mode

Touch your desired Group name or File name.
The selected Group*1 or file is played back.

*1 *The first file in the selected Group is played back.*

- *To switch into Quick Search mode, see ⑥ in "Bluetooth Audio main screen example" (page 84).*

Full Search mode

Touch your desired Group name*2 or File name.
When you select a File name, the selected song is played.
When you select a Group name, repeat the same procedure to select another Group name or File name.

*2 *When you touch the [▶] by a Group name, the unit plays from the first song in the Group.*

- *To switch into Full Search mode, see ⑦ in "Quick Search mode screen example" (page 84).*
- *To switch the displayed list or return to the previous page in the List screen, see "About Basic Operation for List Screen" (page 18).*

Connecting a Bluetooth Device

Registering a Bluetooth device in the unit enables automatic connection. If it does not connect automatically, run through the connection procedure again.

1   **Touch [ ] (Phone Setting).**
The Device Setting select pop up screen is displayed.

2   **Touch [Reconnect].**
Bluetooth connection will start.

Disconnecting the Bluetooth Connection

1   **Touch [ ] (Phone Setting).**
The Device Setting select pop up screen is displayed.

2   **Touch [Disconnect].**
The Bluetooth connection is disconnected.

Changing the connecting Bluetooth Device

If multiple Bluetooth devices are registered in this device, you can change the connection among the registered devices.

1   **Touch [ ] (Phone Setting).**

2   **Touch [Change Phone].**

3   **Touch [ ] (Audio) or [ ] (Hands-free) of the selected device.**
The connection will transfer to the selected device.

Auxiliary Device (Optional)

Operating Auxiliary Devices (Optional)

To operate devices connected to the AUX terminals of the unit, follow the procedure described below.

- *Set AUX to "On." See "AUX Setup" (page 44).*
- *Depending on the connected unit, the onscreen buttons may not work, or their operation may differ.*

⚠ WARNING

It is dangerous (and illegal in many states) for the driver to watch TV/video while driving the vehicle. The driver may be distracted from looking ahead and an accident could occur.

Install the unit correctly so that the driver cannot watch TV/video unless the car is stopped and the parking brake is applied.

If the unit is not installed correctly, the driver will be able to watch TV/video while driving and may be distracted from looking ahead and cause an accident. The driver or other people could be severely injured.

- *If you try to activate the auxiliary device while driving, the display will show the warning-Picture off for your safety.*

Press the ♪ (AUDIO) button to select Auxiliary (AUX)* mode.
The display shows the Auxiliary (AUX) mode screen.

* The name which is given as the mode name in "Setting the Auxiliary (AUX) Name" (page 45) is displayed.

- *You can select and change the source in the Menu screen (page 21) or Favorite screen (page 24).*
- *For details on the connected auxiliary device, refer to its owner's manual.*

AUX Operation Screen Display During Video File Playback

Touch the screen.
The Auxiliary (AUX) operation screen is displayed.

- *The operation screen changes to the visual screen in the Auxiliary (AUX) mode for 5 seconds after an operation has been performed. To hide the Auxiliary (AUX) operation screen, touch the video display area.*

Operating an AUX, AUX DVD, GAME or USB Player

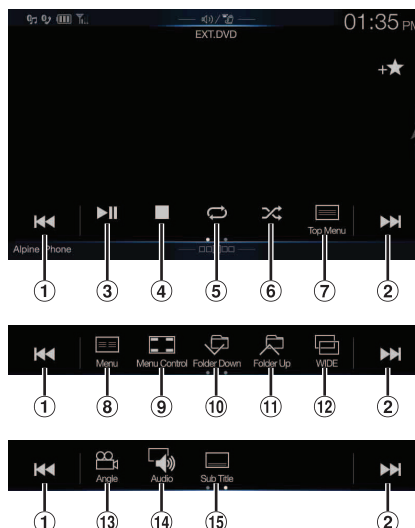■ **Example for AUX, AUX DVD, GAME, USB Player mode display**

① [▭] (Display Mode)
For details, see "Switching Display Modes (During Video File Play Back)" (page 60).

Operating an External DVD Player

■ **External DVD player display example**

① [◄◄]
Touch the switch to go back to the beginning of the current chapter/track/file. Touch the switch once more to find the beginning of the previous chapter/track/file. Touch and hold to fast reverse.

② [►►|]
Touch the switch to advance to the beginning of the next chapter/track/file. Touch and hold to fast forward.

③ [►/‖]
Switches between play and pause.

④ [■]
Touching during play initiates a pre stop. Touching again stops play.

⑤ [↻]
Starts/Stop repeat play.

⑥ [✕]
Starts/Stop M.I.X. play.

⑦ [▤] (Top Menu)
Calls up the Top Menu screen.

⑧ [≡≡] (Menu)
Calls up the Menu screen.

⑨ [▭▭] (Menu Control)
Calls up the menu operation mode.

⑩ [⬇]
Switches the program/playlist/folder down.

⑪ [⬆]
Switches the program/playlist/folder up.

⑫ [▭] (Display Mode)
You can set the Display Mode. For details, see "Switching Display Modes (During Video File Play Back)" (page 60).

⑬ [📹] (Angle)
Switches angle.

⑭ [🔊] (Audio)
Switches audio.

⑮ [▭] (Sub Title)
Switches sub titles.

■ **Menu operation mode screen example**
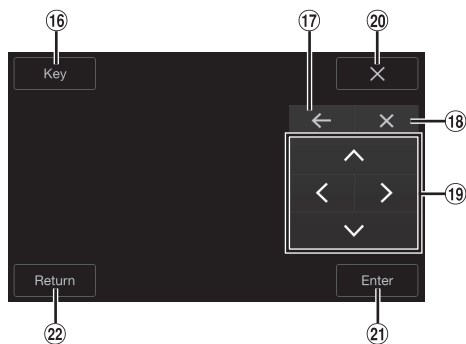
⑯ [Key]
Displays the Key panel (⑰ ⑱ ⑲).

⑰ [←], [→]
Moves key panel location.

⑱ [✕]
Closes menu operation mode.

⑲ [✕]
Closes key panel.

⑳ [∧], [<], [∨], [>]
Moves menu cursor.

㉑ [Enter]
Determines the selected item.

㉒ [Return]
Returns to the previous item/screen.

Operating an External DVD Changer

The DVD-CHG operation mode screen and the Menu operation mode screen are the same as the external DVD player operation screen. See "Operating an External DVD Player."
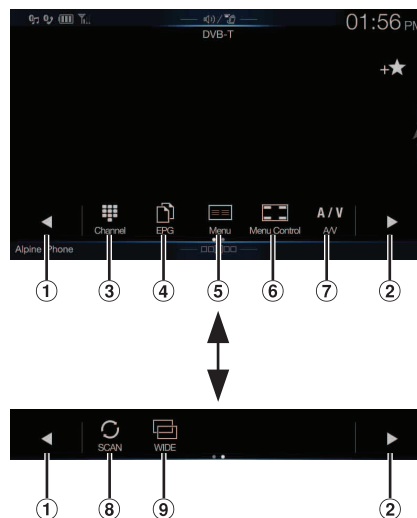
■ **External DVD changer screen example**

① [Disc1]-[Disc6]
Selects a Disc.
- *Touch the left side of the operation screen or swipe the operation screen to the right to display the Disc selection screen.*

Operating the Mobile Digital TV Receiver (DVB-T)

■ **Menu operation mode screen example**

① [◀]
Switches the Channel number / Favorite channel number down.

② [▶]
Switches the Channel number / Favorite channel number up.

③ [▦] (Tune) (Channel or Favorite)
Switches between the Channel mode and the Favorite channel mode.

④ [📄] (EPG)
Call up the Electronic Program Guide (EPG).

⑤ [≡≡] (Menu)
Call up the menu screen.

⑥ [▭▭] (Menu Control)
Call up the menu operation mode.

⑦ [A/V] (A/V)
Switches the source.

⑧ [↻] (Scan)
Touch the switch to start the scan procedure.

⑨ [▭] (Display Mode)
You can set the Display Mode. For details, see "Switching Display Modes (During Video File Play Back)" (page 60).

Operating a TV

■ **Menu operation mode screen example**

① [◀], [◀◀]
Switches the Channel number / Preset channel down.

② [▶], [▶▶]
Switches the Channel number / Preset channel up.

③ [📶] (Band)
Switches the band.

④ [▦] (Tune) (Channel or Preset or Manual)
Switches amongst Channel mode, Preset mode, and Manual mode.

⑤ [≔↓] (Auto Memory)
The tuner automatically seeks and stores stations.

⑥ [🖵] (Display Mode)
You can set the Display Mode. For details, see "Switching Display Modes (During Video File Play Back)" (page 60).

Camera Operation (Optional)

When an optional camera is connected, the view video of camera can be output to the monitor.

Front camera, Rear camera or Side camera can be connected to this unit. Make the Camera Select setting (Front, Rear, Side or Other) according to your connected camera. For details, see "Setting the Camera Input" (page @@).

When using the optional Multi Camera Interface box, you can connect up to 3 cameras: Front Camera, Rear Camera, and Side Camera. When connecting the optional Multi Camera Interface box, you need to set each camera to On/Off in "Setting Multi Camera to On/Off" (page @@). When displaying the camera view while connected to the optional Multi Camera Interface box, you can switch the camera view using the switch button at the top of the screen.

Front camera:
When the HCE-C257FD is connected, conditions in front of the vehicle, such as objects, people and other hazards, can be seen.
Rear camera:
If an HCE-C127D/HCE-C157D/HCE-C252RD camera is connected, when the vehicle is reversed, the rear camera view (guide marks for vehicle width and available distance) is displayed automatically on the screen of this unit.
Side camera:
If the HCE-C259SD is connected, you can check for obstacles in the blind spot on the passenger side.
Other camera:
Set when connecting to a camera other than the Front camera or Rear camera, such as a room camera and side camera.

> You can adjust the quality of the camera image.
> Setting items: Brightness / Color / Contrast
> See "Picture Quality. Setup" (page 39).

Rear Camera Operation

Displaying the Rear Camera Image from the Menu screen

1 **Press the MENU button.**
The menu screen is displayed.

[Camera] button

- *You can also display the menu screen by touching [☐☐☐☐☐] on the lower part of the Audio source screen or by swiping upward.*

2 **Touch [Camera].**
The Rear Camera view is displayed.

- *Touch the screen while the camera image is being displayed, and touch [✕] or [≪] to return to the main source screen or previous screen.*
- *You can perform a Guide Adjustment. For details, see "Adjusting the Rear/Front/Side Camera Guide" (page 46).*
- *If you connect a Front Camera and Side Camera using the optional Multi Camera Interface box, touch [Front] or [Side] to switch the Camera display.*
- *You can also switch the Camera view by Pressing ⊙ (CAMERA) button. (X110 only)*

Displaying the rear view video while the car is in reverse

1 **Shift the gear lever to the reverse (R) position.**
The rear view image is displayed while the car remains in reverse.

2 **If you shift the gear lever to a position other than reverse (R), the monitor returns to the previous screen.**

- *Never depend solely on the camera when backing up. Always turn and look and only use the camera for additional assistance.*
- *This function is effective when the reverse wire is properly connected.*
- *You can perform a Guide Adjustment. For details, see "Adjusting the Rear/Front/Side Camera Guide" (page 46).*

Switching the Image Pattern for the Rear Camera

If the camera has a view switch function, the Direct Change switch is displayed.

1 **Touch the screen when the image from the rear camera is displayed.**
The operation screen is displayed on the screen.
- *After a 5-second time-out, the operation screen returns to the camera display screen.*

2 **Touch [Back], [Panorama], [Corner] or [Top].**
The image pattern changes.

[Back]: Rear View
[Panorama]: Panorama View
[Corner]: Corner View
[Top]: Ground View

- *For detailed information about image patterns, see the camera Owner's Manual.*
- *You can perform a Guide Adjustment. For details, see "Adjusting the Rear/Front/Side Camera Guide" (page 46).*

Guide Display ON/OFF Setting

1 **Touch the screen when the image from the camera is displayed.**
The operation screen is displayed on the screen.
- *After a 5-second time-out, the operation screen returns to the camera display screen.*

2 **Touch [Guide Off] or [Hitch Guide Off] on the Rear camera display screen.**
The guide disappears, and then the **[Guide Off]** or **[Hitch Guide Off]** switch changes to **[Guide On]** or **[Hitch Guide On]**.

3 **Touch [Guide On] or [Hitch Guide On] to turn on the guide.**

Adjusting the Caution Display Location

1 Touch the screen when the image from the camera is displayed.

The operation screen is displayed on the screen.
- *After a 5-second time-out, the operation screen returns to the camera display screen.*

2 Touch [⬍ Caution].

- *For each touch, the caution location moves to the top or bottom of the screen.*

About the Rear Camera Guide

To display the guide, set "Guide Display ON/OFF Setting" (page 90) to On. Also, to adjust the guide, see "Adjusting the Rear/Front/Side Camera Guide" (page 46). You can also turn off the guide in the Rear camera display screen.

■ Indication mark meaning

When the car is put into reverse gear, the monitor switches to the rear view camera image. Guides appear to help visualize the car's width and distance from the rear bumper.
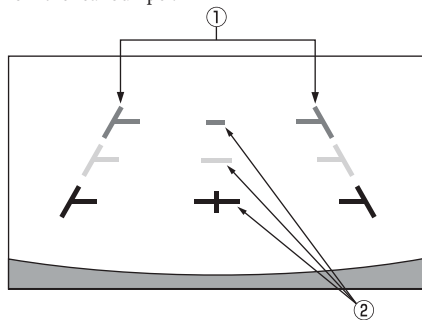
① **Car width extension marks (red, yellow and green in order of distance)**
If properly calibrated, the marks indicate the car's width. This helps guide the car's path when backing up in a straight line.

The marks represent the distance from the rear of the car (from the rear end of the bumper).
- The marks do not move in synchronization with the steering wheel.
- Set the marks to suit the car's width.

② **Distance guidance marks**
The marks represent the distance from the rear of the car (from the rear end of the bumper).
- The marks do not move in synchronization with the steering wheel.
- We recommend that you measure the actual distance to the marks when parked on a level surface.

- *Depending on the condition of the car or road surface, the range of vision may vary.*
- *The camera has a limited range of vision. Objects at extreme angles to the camera (e.g. under the bumper or at opposite ends of the bumper) may not be in the its field-of-vision.*
- *The rear camera image may have a tint which is different from the actual surroundings.*
- *Depending on the car, the guidance may deviate to the right or left. This is not a malfunction.*
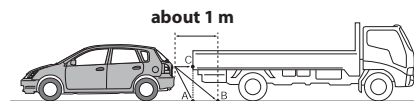
■ Distance guidance mark

The distance guides represent the ground level distance from the rear bumper. It is difficult to accurately estimate the distance to objects above ground level.

In the following example, the distance to A is 0.5 m and the distance to B is 1 m.

\<Screen\>

\<Positions of A, B and C\>
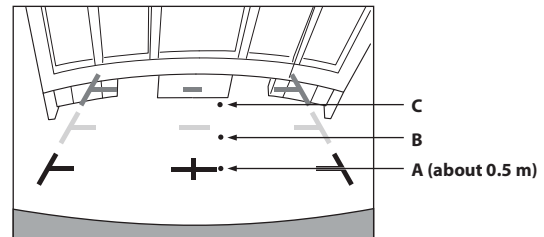
In the screen, according to the distance guidance marks, the truck seems to be parked about 1 m away (at the position B). In actual fact, however, if you reversed to position A, you would collide with the truck.
In the screen, positions A, B and C seem to be located in order of proximity. However, in actual fact, the position A and C are the same distance, and B is farther away than positions A and C.

- *The car width extension mark represents the distance to the road surface. The distance to an object on the road is not accurately represented by the guides.*

Error between the screen and the actual road surface

In the following conditions, errors are produced between the screen guidance and the actual road surface. (The illustrations represent a case when the camera is installed in the standard position.)

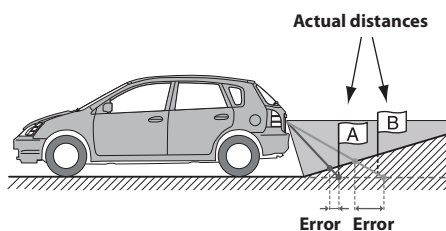## ■ When there is a steep upward slope behind the car (example)

\<Screen\>

Distance guidance marks

<Situation of the car>
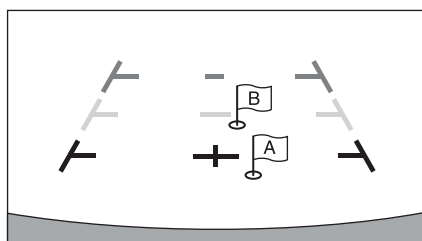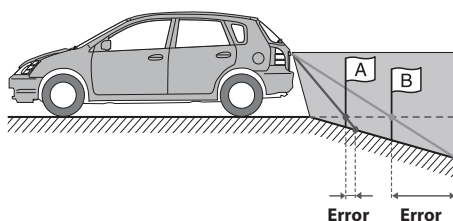
Actual distances

Error Error
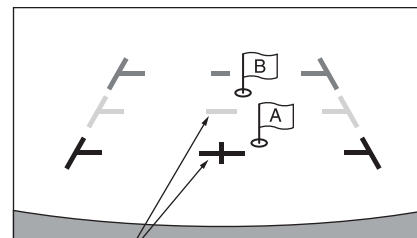
The distance guidance mark represents the distance to a flat road surface. Therefore in the case of an upward slope behind the car, the distance guides are displayed closer to the rear bumper than the actual distance. For example, if there is an obstacle on the upward slope, it may appear farther away than its actual position.
Also, an error may occur between the guidance and the actual path of the car on the road surface.

■ **When there is a steep downward slope behind the car (example)**

<Screen>

<Situation of the car>

Error   Error

In the case of a downward slope behind the car, the distance guides are displayed farther from the rear bumper than the actual distance.
If there is an obstacle on the downward slope, it seems closer than its actual position.
Also, an error may occur between the guidance and the actual path of the car on the road surface.

Front Camera Operation

Displaying the Front Camera image from the Menu screen.

1 **Press the MENU button.**
The menu screen is displayed.

[Camera] button

- *You can also display the menu screen by touching [□□□□□] on the lower part of the Audio source screen or by swiping upward.*

2 **Touch [Camera].**
The Front Camera view is displayed.

- *Touch the screen while the camera image is being displayed, and touch [✕] or [《] to return to the main source screen or previous screen.*
- *You can perform a Guide Adjustment. For details, see "Adjusting the Rear/Front/Side Camera Guide" (page 46).*
- *If you connect a Rear Camera and Side Camera using the optional Multi Camera Interface box, touch [Rear] or [Side] to switch the Camera display.*
- *You can also switch the Camera view by Pressing ⬚ (CAMERA) button. (X110 only)*

Switching the Image Pattern for the Front Camera

If the camera has a view switch function, the Direct Change switch is displayed.

1 **Touch the screen when the image from the front camera is displayed.**
The operation screen is displayed on the screen.

- *After a 5-second time-out, the operation screen returns to the camera display screen.*

2 **Touch [Panorama], [Corner] or [Top].**
The image pattern changes.

[Panorama]: Panorama View
[Corner]:   Corner View
[Top]:   Ground View

- *For detailed information about image patterns, see the camera Owner's Manual.*
- *You can perform a Guide Adjustment. For details, see "Adjusting the Rear/Front/Side Camera Guide" (page 46).*

About the adjustment of guide display ON/OFF setting and adjustment of Caution display location

As with the rear camera, the front camera guide display ON/OFF setting and Caution display location can be adjusted. See "Guide Display ON/OFF Setting" (page 90) and "Adjusting the Caution Display Location" (page 91) for the operations.

Side Camera Operation

Displaying the Side Camera image from the Menu screen.

1 **Press the MENU button.**
The menu screen is displayed.

[Camera] button

- *You can also display the menu screen by touching [□□▬□□] on the lower part of the Audio source screen or by swiping upward.*

2 **Touch [Camera].**
The Side Camera view is displayed.

- *Touch the screen while the camera image is being displayed, and touch [✕] or [《] to return to the main source screen or previous screen.*
- *You can perform a Guide Adjustment. For details, see "Adjusting the Side Camera Guide" (page @@).*
- *If you connect a Rear Camera and Front Camera using the optional Multi Camera Interface box, touch **[Rear]** or **[Front]** to switch the Camera display.*
- *You can also switch the Camera view by Pressing ⬚ (CAMERA) button. (X110 only)*

Switching the Image Pattern for the Side Camera

If the camera has a view switch function, the Direct Change switch is displayed.

1 **Touch the screen when the image from the side camera is displayed.**
The operation screen is displayed on the screen.

- *After a 5-second time-out, the operation screen returns to the camera display screen.*

2 **Touch [Rear] or [Front].**
The image pattern changes.

Rear:　　　Vehicle Rear view
Front:　　　Vehicle Front view

- *For detailed information about image patterns, see the camera Owner's Manual.*
- *You can perform a Guide Adjustment. For details, see "Adjusting the Side Camera Guide" (page @@).*

iDataLink Operation (Optional)

When the unit is connected to the car's iDataLink module, you can transfer and receive data between the car and the unit to check the car's status, or to make various operations from the unit.
When you use iDataLink mode, set each setting other than "Aftermarket" in "Setting the Source Category" (page @@).

- *Available functions differ depending on your vehicle. For details, refer to your vehicle's instruction manual.*

Access to iDataLink Mode

You can check the car's status, set the air conditioning, etc.

1   Press and hold the ## (Favorite) button for at least 2 seconds, or touch [🚘] (Vehicle Info.) in the Menu screen to activate iDataLink mode.
- *The iDataLink mode screen selected in "Setting the Default Vehicle Screen" (page @@) is displayed.*

2   Touch the desired tag on the top of the screen.
- *The displayed tag options differ depending on the type of vehicle.*

Setting contents:
Climate / Gauges / Park Sensor / Vehicle Info. / Car Setting

■ Climate screen example
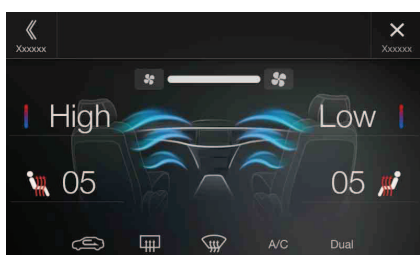
3   Adjust or confirm the item/information accordingly.

- *Operable functions and displays may differ depending on the vehicle.*

iDataLink Function Screen example

■ Climate screen example

You can control the temperature inside the vehicle, etc.

■ Gauges screen example

You can check the vehicle's speed, the engine's rotation speed, etc.
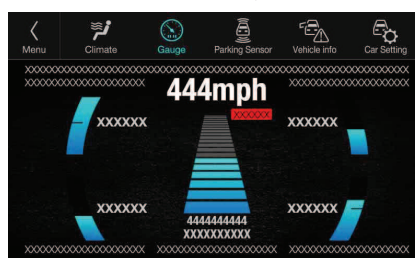
■ Parking sensor screen example

You can check the distance from the front and rear of the vehicle to an obstacle.
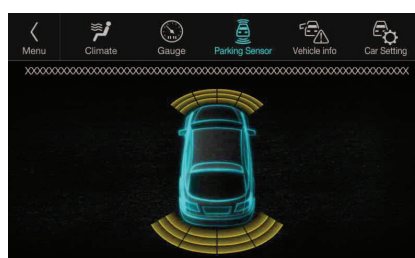
- *If the car sensor detects an obstacle, the screen automatically changes to the Parking sensor screen. For details, see "About Parking Sensor screen" (page @@).*

■ Vehicle Information screen example

You can check for open doors, check the tire pressure, the battery life, etc. for the vehicle.

■ Car Setting screen example (Generic List screen)

The Generic List/Popup Window/Current source control screen is displayed.

About Parking Sensor screen

The Parking sensor screen turns on when the front or rear sensor on your vehicle detects an obstacle within a certain distance.

Parking Sensor Full screen example

When the front or rear sensor detects an obstacle within a certain distance, the Parking Sensor screen is displayed, and the indicator (①-⑧) that corresponds with that area lights up.
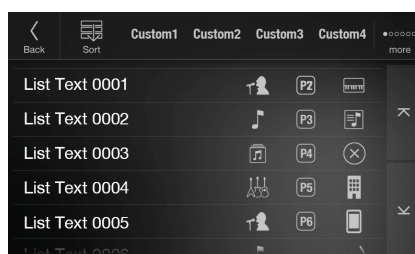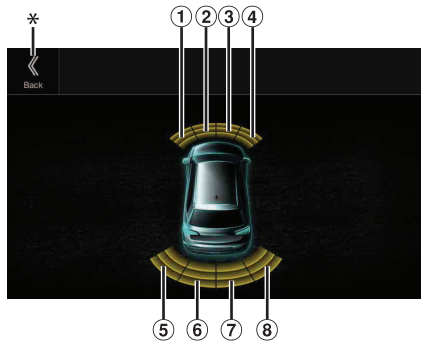

Indicator colors when an obstacle is detected.
 *Red: close distance*
  Orange: medium distance
  Yellow: long distance

- *Depending on the speed of the vehicle, when moving faster than a certain speed, the Parking Sensor screen may not be displayed.*
- *Vehicles that do not have the obstacle detection sensor cannot use this function.*

* *[《] is displayed only when the Front camera or Rear camera is interlocked.*

Parking Sensor Camera interlock screen example (Rear camera)

You can check for obstacles through an interlocked camera image by connecting a Front or Rear Camera.
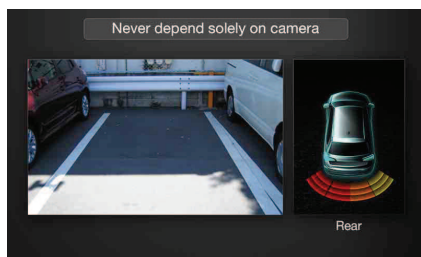
- *Touch the Camera image area to switch to the Camera full screen. (While displaying the Camera full screen, touch the Camera screen, then touch [Sensor] to return to the Parking Sensor Camera interlock screen.)*
- *Touch the car icon to switch to the Parking sensor full screen. (Touch [《] on the Parking Sensor full screen to return to the Parking Sensor Camera interlock display.)*
- *To use this function, set the Camera Select setting to "Front/Other" or "Rear." For details, see "Setting the Camera Input" (page 46).*
- *If you connect a Front Camera/Rear Camera/Side Camera using the optional Multi Camera Interface box, you can switch the Camera display. For details on the camera settings when connected to the Multi Camera Interface box, see "Setting Multi Camera to On/Off" (page @@). For details on how to switch the camera display, see "Camera Operation (Optional)" (page @@).*

3 Edit each switch.

When changing an icon:

Touch the icon, and select your desired icon from the Icon Type list. After selecting the icon, set the Output Type (Timing) for each function.

* The Output Type (Timing) sets the operating time for that function when you touch the icon on the External Accessory screen.

Pulse: The operating time when you touch the icon. (Select from 11 steps, ranging 0.5 sec. to 10 sec.)

Latch: Switch On/Off by touching the icon.

Momentary: Operating time lasts from when an icon is touched to when it is released.

When changing the name:

Touch the icon name, then input characters into Edit Name (Keypad). You can also select a basic name from the [Template] of the Keypad. For details on how to input characters using the keypad, see "How to Input Characters and Numbers (Keypad)" (page @@). (When a basic name is selected from the Template, the icon will be changed according to the basic name.)

When changing the layout of the switches:

Drag and drop an icon to the desired location.

To revert to a default icon:

Touch the check box "☑" of the icon that you want to revert to default, and then touch [↺] (Reset). If you touch [↺] (Reset All), all icons revert to default icons.

4 After editing is complete, touch [《] (Back).

5 After the caption for the confirmation is displayed, touch [OK].

• *If you touch [⤺] (Cancel) while editing, the screen switches to the Edit screen.*

About Remote Control Operation (X110 with DVE-5300X only)
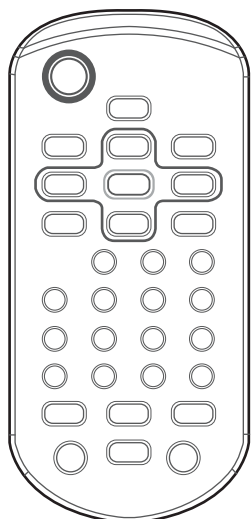
When Using the Remote Control

- *When you first use the remote control, please remove the insulation sheet in the battery case.*
- *Point the remote control at the remote sensor within about 2 metres.*
- *It may not be possible to operate the remote control if the remote control sensor is exposed to direct sunlight.*
- *The remote control is a small, lightweight precision device. To avoid damage, short battery life, operational errors and poor response, observe the following.*
  - *Do not subject the remote control to excessive shock.*
  - *Do not put in a trouser pocket.*
  - *Keep away from food, moisture and dirt.*
 - *Do not place in direct sunshine.*

Battery Replacement

Battery type: CR2025 battery or equivalent.

1 Opening the battery case
Slide out the battery cover while firmly pressing in the direction of the arrow.
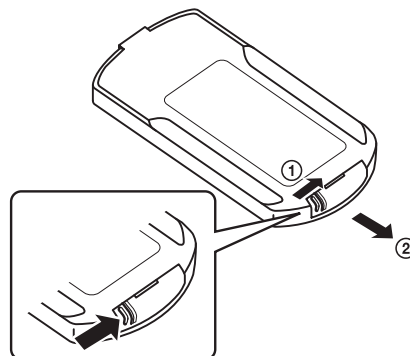
2 Replacing the battery
Put the battery in the case with the (+) indication upward as shown in the illustration.
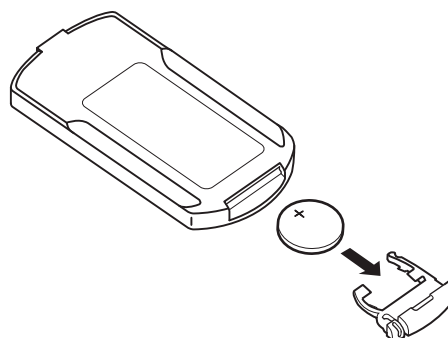
- *Placing a battery in backwards way may cause a malfunction.*

3 Closing the cover
Slide the cover as illustrated until a click is heard.
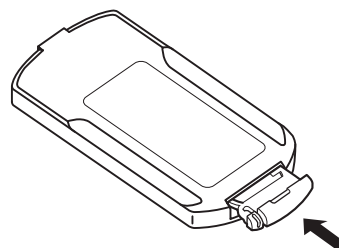
⚠ **WARNING**

DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.
Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

Operating the DVD Player

① **⏻ button**
Recalls the Menu screen.

② **DISP. button**
Displays playback status on the screen.

③ **ENT. button**
Determines the selected item.

④ **REPEAT button**
Repeats playback.

⑤ **▼ button**
Selects MP3/WMA/AAC/WAV folders.

⑥ **AUDIO button**
Video CD: Switches the audio output.
DVD: Switches the audio language.

⑦ **SUBTITLE button**
Switches the subtitle.

⑧ **CLR (ALL CLR) button**
Removes numbers (one character at a time) that have been selected and input.
Press and hold for 2 seconds. All the characters which were selected and input are erased.

⑨ **ANGLE button**
Switches the angle (DVD only).

⑩ **|◄◄ button**
CD mode:
Press the button to go back to the beginning of the current track. Press and hold to fast reverse.
MP3/WMA/AAC/WAV mode:
Press the button to go back to the beginning of the current file. Press and hold to fast reverse.

DVD/Video CD mode:
• Move to the desired position on the disc.
• During playback, press and hold for more than 1 second to reverse the disc at double speed. Hold for more than 5 seconds to reverse the disc at 8 times the normal speed. Hold for more than 10 seconds to reverse the disc at 32 times the normal speed.
• The picture is reversed by one frame each time the button is pressed in the pause mode (DVD only).

⑪ **►/❚❚ button**
Switches between play and pause.

⑫ **MENU button**
Video CD:
Switches between PBC ON and OFF.
DVD:
Displays the DVD menu.

⑬ **SETUP button**
Displays the SETUP (initial setting) screen.

⑭ **▲ button**
Selects MP3/WMA/AAC/WAV folders.

⑮ **RETURN button**
Returns to the selection screen just prior to the current screen.
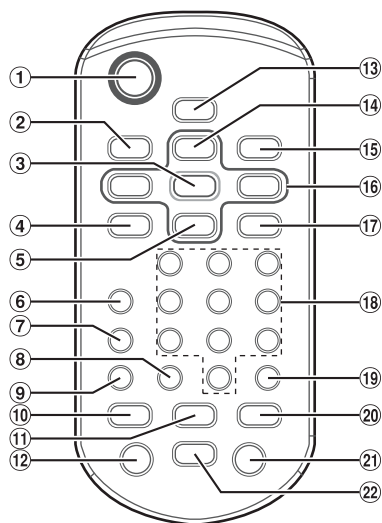
⑯ **▼, ▲, ◄, ► buttons**
Selects the items displayed on the screen.

⑰ **M.I.X. button**
M.I.X. play for CDs and MP3/WMA/AAC/WAV.

⑱ **Numeric Keypad**
Inputs numbers.

⑲ **LIST button**
MP3/WMA/AAC/WAV Folder and File Search.

⑳ **►►| button**
CD mode:
Press the button to advance to the beginning of the next track. Press and hold to fast forward.
MP3/WMA/AAC/WAV mode:
Press the button to advance to the beginning of the next file. Press and hold to fast forward.
DVD/Video CD mode:
• Move to the desired position on the disc.
• During playback, press and hold for more than 1 second to forward the disc at double speed. Hold for more than 5 seconds to forward the disc at 8 times the normal speed. Hold for more than 10 seconds to forward the disc at 32 times the normal speed.
• The picture is forwarded by one frame each time the button is pressed in the pause mode.

㉑ **TOP M. button**
Displays the Top Menu.

㉒ **■ button**
Stops the playback.

Information

Product Software Update

This product use software that can be updated through a USB flash drive. Download the software from the Alpine website and update the product using the USB flash drive.

Updating this product
Check the Alpine website for details on updating.

http://www.alpine-usa.com

Important information on the software
About the software license of the product
The software installed in the product contains open-source software. See the following Alpine website for details on the open source software.

http://www.alpine.com/e/oss/download

Cautions about Discs (X110 with DVE-5300X only)

Moisture Condensation
You may notice the disc playback sound wavering due to condensation. If this happens, remove the disc from the player and wait about an hour for the moisture to evaporate.
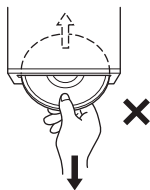
Damaged Disc
Do not attempt to play cracked, warped, or damaged discs. Playing a bad disc could severely damage the playback mechanism.

Never Attempt the Following
Do not grip or pull out the disc while it is being pulled back into the player by the automatic reloading mechanism.
Do not attempt to insert a disc into the unit when the unit power is off.

Inserting Discs
Your player accepts only one disc at a time for playback. Do not attempt to load more than one disc.
Make sure the label side is facing up when you insert the disc. "Disc error" will be displayed on your player if you insert a disc incorrectly. If "Disc error" continues to be displayed even though the disc has been inserted correctly, push the RESET switch with a pointed object such as a ballpoint pen.
Playing a disc while driving on a very bumpy road may result in skips, but this will not scratch the disc or damage the player.

Irregular Shaped Discs
Be sure to use round shaped discs only for this unit and never use any special shaped discs.
Use of special shaped discs may cause damage to the mechanism.

New Discs
To prevent the disc from jamming, "Disc error" is displayed if discs with irregular surfaces are inserted or if discs are inserted incorrectly. When a new disc is ejected immediately after initial loading, use your finger to feel around the inside of the center hole and outside edge of the disc. If you feel any small bumps or irregularities, this could inhibit proper loading of the disc. To remove the bumps, rub the inside edge of the hole and outside edge of the disc with a ballpoint pen or other such instrument, then insert the disc again.
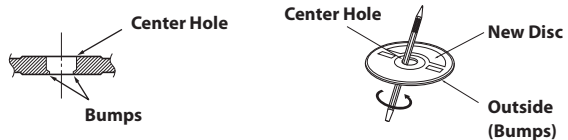
Installation Location
Make sure the unit will not be installed in a location subjected to:

- Direct sun and heat
- High humidity and water
- Excessive dust
- Excessive vibrations

Correct Handling
Do not drop the disc while handling. Hold the disc so you will not leave fingerprints on the surface. Do not affix tape, paper, or gummed labels to the disc. Do not write on the disc.
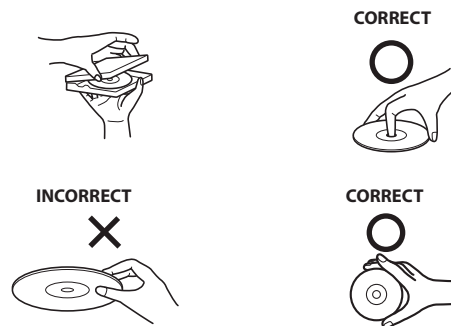
Disc Cleaning
Fingerprints, dust, or soil on the surface of the disc could cause the DVD player to skip. For routine cleaning, wipe the playing surface with a clean, soft cloth from the center of the disc to the outer edge. If the surface is heavily soiled, dampen a clean, soft cloth in a solution of mild neutral detergent before cleaning the disc.

Disc Accessories

There are various accessories available on the market for protecting the disc surface and improving sound quality. However, most of them will influence the thickness and/or diameter of the disc. Using such accessories can cause operational problems. We recommend not using these accessories on discs played in Alpine DVD players.

Transparent Sheet   **Disc Stabiliser**
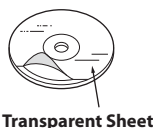
Discs Playable on This Unit (X110 with DVE-5300X only)

Playable Discs

The discs listed below can be played on this unit.

	Mark (logo)	Recorded Content	Disc size
DVD Video	**DVD** VIDEO	Audio + Video	12 cm*
Music CD	COMPACT disc DIGITAL AUDIO / COMPACT disc DIGITAL AUDIO TEXT	Audio	12 cm
Video CD	COMPACT disc DIGITAL VIDEO / VIDEO CD	Audio + Video	12 cm

* Two-layer DVD disc compatible

Discs that cannot be played

DVD-ROMs, DVD-RAMs, CD-ROMs (excluding MP3/WMA/AAC/WAV files), photo CDs, etc.

DualDisc

This unit is not compatible with DualDisc.
Using a DualDisc may cause unit malfunction, and may cause disc damage when the disc is inserted/ejected.

DVD region number (playable region number)

This DVD player will play back any disc whose region number is 2 (or All). DVDs with a region number other than those listed below, cannot be played on this DVD player.

Video CDs

This DVD unit is compatible with playback control (PBC) compatible video CDs (version 2.0).
"PBC" is a function by which you can use menu screens recorded on the disc to find the scene you want to watch and view various types of information in dialog style.

Using compact discs (CD/CD-R/CD-RW)

If you use unspecified compact discs, correct performance cannot be guaranteed.
You can play CD-Rs (CD-Recordables)/CD-RWs (CD-ReWritables) which have been recorded only on audio devices.
You can also play CD-Rs/CD-RWs containing MP3/WMA/AAC/WAV formatted audio files.

- Some of the following discs may not play on this unit:
  Flawed discs, discs with fingerprints, discs exposed to extreme temperatures or sunlight (e.g., left in the car or this unit), discs recorded under unstable conditions, discs on which a recording failed or a re-recording was attempted, copy-protected CDs which do not conform to the audio CD industry standard.
- Use discs with MP3/WMA/AAC/WAV files written in a format compliant with this unit. For details, see pages 101 and 102.

To customers using CD-R/CD-RW
- If a CD-R/CD-RW cannot be played back, make sure the last recording session was closed (finalized).
- Finalize the CD-R/CD-RW if necessary, and attempt playback again.

Tips for making your own discs

The unit plays DVD Video, Video CD, Audio CD and has a built in MP3/WMA/AAC decoder.

The following information is designed to help you create your own music CDs (either Audio CD or MP3/WMA/AAC encoded CD-R/RW files).

What is the difference between an Audio and MP3/WMA/AAC CD?
An Audio CD is the same format as the commercial CDs you buy in the store (also known as CD-DA). MP3 (MPEG Audio Layer 3)/WMA (Windows Media Audio)/AAC (Advanced Audio Coding) is a data file that uses a compression scheme to reduce the size of the music file*.

* If the first session on a disc containing both CD-DA data and MP3/WMA/AAC data is a CD-DA file, only CD-DA files will be played.

Multisession CD-R/RW:
Once a recording has been stopped, this is considered one session. If the disc is not closed (finalized), additional data may be added. Once this additional data has been recorded, this becomes a "multisession" CD.

Properly formatted MP3/WMA/AAC Discs:
Use ISO9660 formatting to insure proper playback. You may use standard ISO naming Level 1 (8.3 DOS standard), Level 2 (32 characters) or Joliet (Windows or Macintosh long filenames) file naming conventions*.

* Please consult the Owner's manual for additional information.

On handling compact discs (CD/CD-R/CD-RW)

- Do not touch the surface.
- Do not expose the disc to direct sunlight.
- Do not affix stickers or labels.
- Clean the disc when it is dusty.
- Make sure that the disc is smooth and flat.
- Do not use commercially available disc accessories.

Do not leave the disc in the car or the unit for a long time. Never expose the disc to direct sunlight.
Heat and humidity may damage the disc and you may not be able to play it again.

Using DVD-Rs/DVD-RWs/DVD+Rs/DVD+RWs

- This unit is compatible with discs recorded in the standard DVD-Video format.
- Note that discs not finalized (processed to enable to play on playback-only DVD players) cannot be played on this DVD player.
- Some discs may not play back, depending on the recording device and disc format.
- Discs or files utilising copy protection, may not be playable. Some recording systems may not properly format copied files to enable proper playback.
- In the following cases, the disc may not play on this unit: discs recorded by certain DVD recorders, certain irregular discs, flawed discs, dirty discs, when the pickup lens of this DVD player is dirty, or when moisture condensation has occurred inside the unit.
- Be sure to follow all cautions included with your DVD-Rs/DVD-RWs/DVD+Rs/DVD+RWs discs.
- Do not put stickers, seals, or tape on the label side of DVD-Rs/DVD-RWs/DVD+Rs/DVD+RWs.
- Compared to the regular discs, DVD-Rs/DVD-RWs/DVD+Rs/DVD+RWs are more affected by heat, moisture, and direct sunlight. If left in a car, etc., damage may occur and it might not play on this unit.
- The operable temperature range for disc playback is as follows:
  DVD-R/DVD-RW: -25 to +70°C
  DVD+R/DVD+RW: +5 to +55°C

About the Supported Formats

About MP3/WMA/AAC/FLAC

⚠ **CAUTION**
Except for private use, duplicating audio data (including MP3/WMA/AAC/FLAC data) or distributing, transferring, or copying it, whether for free or for a fee, without permission of the copyright holder is strictly prohibited by the Copyright Act and by international treaty.

What is MP3?

MP3, whose official name is "MPEG Audio Layer 3," is a compression standard prescribed by the ISO, the International Standardisation Organisation and MPEG which is a joint activity institution of the IEC.

MP3 files contain compressed audio data. MP3 encoding is capable of compressing audio data at extremely high ratios, reducing the size of music files to as much as one-tenth their original size. This is achieved while still maintaining near CD quality. The MP3 format realizes such high compression ratios by eliminating the sounds that are either inaudible to the human ear or masked by other sounds.

What is WMA?

WMA, or "Windows Media™ Audio," is compressed audio data. WMA is similar to MP3 audio data.

What is AAC?

AAC is the abbreviation for "Advanced Audio Coding," and is a basic format of audio compression used by MPEG2 or MPEG4.

What is FLAC?

FLAC (Free Lossless Audio Codec) is an audio file codec for lossless compression, developed and offered as open source software. Codecs with lossy compression forms, such as MP3 and AAC, reduce part of the data to improve compression efficiency.
However, FLAC can reconstruct compressed data to be an identical copy of the original data by performing lossless compression. The compression ratio of FLAC is about 50%.

Method for creating MP3/WMA/AAC/FLAC (USB Flash drive) files

Audio data is compressed using software with MP3/WMA/AAC/FLAC (USB Flash drive) codecs. For details on creating MP3/WMA/AAC/FLAC (USB Flash drive) files, refer to the user's manual for that software.
MP3/WMA/AAC/FLAC (USB Flash drive) files that are playable on this device have the file extensions.
MP3: "mp3"
WMA: "wma"
AAC: "m4a"
FLAC: "flac"/"fla"
WMA is not supported for the following files, Windows Media Audio Professional, Windows Media Audio 10 std or Windows Media Audio 10 Pro Lossless.

There are many different versions of the AAC format. Confirm that the software being used conforms to the acceptable formats listed above. It's possible that the format may be unplayable even though the extension is valid.
Playback of AAC files encoded by iTunes is supported.

Supported playback sampling rates and bit rates

MP3 (USB Flash drive/Disc)
Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 12 kHz, 11.025 kHz, 8 kHz
Bit rates: 8 - 320 kbps

WMA (USB Flash drive/Disc)
Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 22.05 kHz, 16 kHz, 11.025 kHz, 8 kHz
Bit rates: 48 - 320 kbps

AAC (USB Flash drive/Disc)
Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 12 kHz, 11.025 kHz, 8 kHz
Bit rates: 16 - 320 kbps

FLAC (USB Flash drive)
Sampling rates: 96kHz, 88.2kHz, 48kHz, 44.1kHz, 32kHz, 24kHz, 22.05kHz, 16kHz, 8kHz
Channel number: 1ch, 2ch

This device may not play back correctly depending on sampling rates.

ID3 tags/WMA tags

This device supports ID3 tag v1.0, v1.1, v2.2, v2.3, v2.4, and WMA tag Ver.1.x. If tag data is in an MP3/WMA/AAC file, this device can display the title (track title), artist name, and album name ID3 tag/WMA tag data.
For non-supported characters, "?" is displayed.
The number of characters may be limited, or not correctly displayed, depending on the tag information.

Playing back MP3/WMA/AAC/FLAC

MP3/WMA/AAC files are prepared, then written to a USB flash drive.
- Maximum numbers of playable files/folders
  USB Flash drive: 10,000 files/folders (including Root Folder)
- Largest playable file size: 512 MB

Playback may not be performed if a disc exceeds the limitations described above.
If a file/folder name is long, the maximum possible number of files may decrease.
- Both Audio and Video files are counted if their formats are playable on this unit.

Media supported

The media that this device can play back a USB flash drive.

Corresponding File Systems

This device supports FAT 16/32.

The maximum nested folder depth is 8 (including the root directory). File names are limited to 256 characters (including the extension).

Valid characters for folder/file names are letters A-Z (all caps), numbers 0-9, and '_' (underscore).

Order of files

Files are played back in the order that the writing software writes them to the disc. Therefore, the playback order may not be what's expected. Verity the writing order in the software's documentation. The playback order of the folders and files is as follows. (The following numbers may differ from actually displayed numbers.)

Folder   MP3/WMA/AAC/FLAC/WAV File
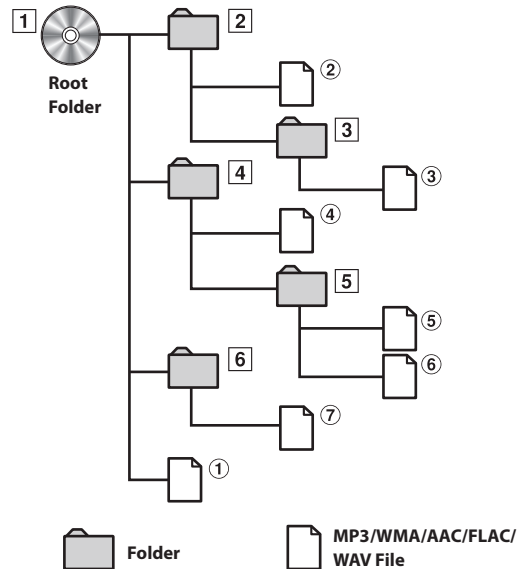
Terminology

Bit rate

This is the "sound" compression rate specified for encoding. The higher the bit rate, the higher the sound quality, but also the larger the files.

Sampling rate

This value shows how many times per second the data is sampled (recorded). For example, music CDs use a sampling rate of 44.1 kHz, so the sound is sampled (recorded) 44,100 times per second. The higher the sampling rate, the higher the sound quality, but also the larger the volume of data.

Encoding

Converting music CDs, WAVE (AIFF) files, and other sound files into the specified audio compression format.

Tag

Song information such as track titles, artist names, album names, etc., written into MP3/WMA/AAC/FLAC (USB flash drive) files.

Root folder

The root folder (or root directory) is found at the top of the file system. The root folder contains all folders and files. It is created automatically for all burned discs.

About WAV (Disc)

WAV, whose official name is "WAVE FORMAT" is a standard format of Windows® audio file.

Extension: ".wav"
Sampling rate: 44.1 kHz
Quantization bit number: 16
Channel number: up to 2ch
Format: PCM only

About DVDs

Music CDs and DVDs have grooves (tracks) in which the digital data is recorded. The data is represented as microscopic pits recorded into the track – these pits are read by a laser beam to play the disc. On DVDs, the density of the tracks and pits is twice that of CDs, so DVDs can contain more data in less space.

CDs

Minimum pit length - 0.9 μm

1.2 mm

Track pitch - 1.6 μm

DVDs

Minimum pit length - 0.9 μm

0.6 mm
0.6 mm

Track pitch - 0.74 μm
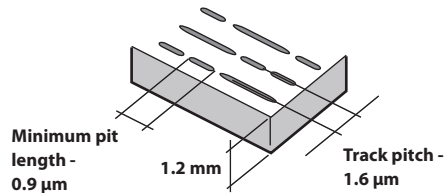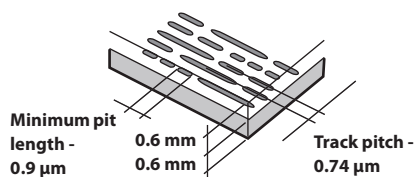
A 12 cm disc can contain one movie or about four hours of music. In addition, DVDs provide sharp picture quality with vivid colors thanks to a horizontal resolution of over 500 lines (compared to less than 300 for VHS tape).

In addition, DVDs offer a variety of functions.

Multiple audio* (page 77)
Movies can be recorded in up to eight languages. The desired language can be selected from the unit.

Subtitles function* (page 77)
Movies can include subtitles in up to 32 languages. The desired subtitle language can be selected from the unit.

Multi angle function* (page 77)
When the DVD contains a movie shot from multiple angles, the desired angle can be selected from the unit.

Multi story function*
With this function, a single movie includes various story lines. You can select different story lines to view various versions of the same movie. Operation differs from disc to disc. Story line selection screens including instructions appear during the movie. Just follow the instructions.

* These functions differ from disc to disc. For details, refer to the disc's instructions.

List of Language Codes

(For details, see page 70.)

Abbreviation	Code	Language	Abbreviation	Code	Language	Abbreviation	Code	Language
AA	6565	Afar	IE	7369	Interlingue	RN	8278	Kirundi
AB	6566	Abkhazian	IK	7375	Inupiak	RO	8279	Romanian
AF	6570	Afrikaans	IN	7378	Indonesian	RU	8285	Russian
AM	6577	Amharic	IS	7383	Icelandic	RW	8287	Kinyarwanda
AR	6582	Arabic	IT	7384	Italian	SA	8365	Sanskrit
AS	6583	Assamese	IW	7387	Hebrew	SD	8368	Sindhi
AY	6589	Aymara	JP	7465	Japanese	SG	8371	Sangho
AZ	6590	Azerbaijani	JI	7473	Yiddish	SH	8372	Serbo-Croatian
BA	6665	Bashkir	JW	7487	Javanese	SI	8373	Singhalese
BE	6669	Byelorussian	KA	7565	Georgian	SK	8375	Slovak
BG	6671	Bulgarian	KK	7575	Kazakh	SL	8376	Slovenian
BH	6672	Bihari	KL	7576	Greenlandic	SM	8377	Samoan
BI	6673	Bislama	KM	7577	Cambodian	SN	8378	Shona
BN	6678	Bengali, Bangla	KN	7578	Kannada	SO	8379	Somali
BO	6679	Tibetan	KO	7579	Korean	SQ	8381	Albanian
BR	6682	Breton	KS	7583	Kashmiri	SR	8382	Serbian
CA	6765	Catalan	KU	7585	Kurdish	SS	8383	Siswati
CO	6779	Corsican	KY	7589	Kirghiz	ST	8384	Sesotho
CS	6783	Czech	LA	7665	Latin	SU	8385	Sundanese
CY	6789	Welsh	LN	7678	Lingala	SV	8386	Swedish
DA	6865	Danish	LO	7679	Laothian	SW	8387	Swahili
DE	6869	German	LT	7684	Lithuanian	TA	8465	Tamil
DZ	6890	Bhutani	LV	7686	Latvian, Lettish	TE	8469	Telugu
EL	6976	Greek	MG	7771	Malagasy	TG	8471	Tajik
EN	6978	English	MI	7773	Maori	TH	8472	Thai
EO	6979	Esperanto	MK	7775	Macedonian	TI	8473	Tigrinya
ES	6983	Spanish	ML	7776	Malayalam	TK	8475	Turkmen
ET	6984	Estonian	MN	7778	Mongolian	TL	8476	Tagalog
EU	6985	Basque	MO	7779	Moldavian	TN	8478	Setswana
FA	7065	Persian	MR	7782	Marathi	TO	8479	Tonga
FI	7073	Finnish	MS	7783	Malay	TR	8482	Turkish
FJ	7074	Fiji	MT	7784	Maltese	TS	8483	Tsonga
FO	7079	Faroese	MY	7789	Burmese	TT	8484	Tatar
FR	7082	French	NA	7865	Nauru	TW	8487	Twi
FY	7089	Frisian	NE	7869	Nepali	UK	8575	Ukrainian
GA	7165	Irish	NL	7876	Dutch	UR	8582	Urdu
GD	7168	Scots Gaelic	NO	7879	Norwegian	UZ	8590	Uzbek
GL	7176	Galician	OC	7967	Occitan	VI	8673	Vietnamese
GN	7178	Guarani	OM	7977	(Afan) Oromo	VO	8679	Volapuk
GU	7185	Gujarati	OR	7982	Oriya	WO	8779	Wolof
HA	7265	Hausa	PA	8065	Punjabi	XH	8872	Xhosa
HI	7273	Hindi	PL	8076	Polish	YO	8979	Yoruba
HR	7282	Croatian	PS	8083	Pashto, Pushto	ZH	9072	Chinese
HU	7285	Hungarian	PT	8084	Portuguese	ZU	9085	Zulu
HY	7289	Armenian	QU	8185	Quechua			
IA	7365	Interlingua	RM	8277	Rhaeto-Romance			

In Case of Difficulty

If you encounter a problem, please turn the power off, then on again. If the unit is still not functioning normally, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected, or then consult your authorized Alpine dealer.

Basic

No function or display.
- Vehicle's ignition is off.
  - If connected according to the instructions, the unit will not operate with the vehicle's ignition off.
- Improper power lead connections.
  - Check power lead connections.
- Blown fuse.
  - Check the fuse on the battery lead of the unit; replace with the proper value if necessary.
- Internal micro-computer malfunctioned due to interference noise, etc.
  - Press the RESET switch with a ballpoint pen or other pointed article.

No sound or unnatural sound.
- Incorrect setting of volume/balance/fader controls.
  - Readjust the controls.
- Connections are not properly or securely made.
  - Check the connections and firmly connect.

Screen not displayed.
- Brightness/Contrast control is set at the minimum position.
  - Adjust the Brightness/Contrast control.
- Temperature in the vehicle is too low.
  - Increase the vehicle's interior temperature to operation temperature range.
- Connections to the Auxiliary Device are not securely made.
  - Check the connections and firmly connect.
- The Parking Brake Lead is not connected.
- The Parking Brake is not engaged.
  - Connect the Parking Brake Lead, then engage the Parking Brake.

Movement of displayed picture is abnormal.
- Temperature in the vehicle is too high.
  - Allow the vehicle's interior temperature to cool.

The optional remote control is inoperative.
- The remote control sensor setting of "Remote Sensor Setting" (page 49) is not set to this unit ("Front").
  - Set for "Front".

Radio

Unable to receive stations.
- No antenna, or open connection in the antenna cable.
  - Make sure the antenna is properly connected; replace the antenna or cable if necessary.

Unable to tune stations in the seek mode.
- You are in a weak signal area.
  - Make sure the tuner is in DX mode.
- If the area you are in is a primary signal area, the antenna may not be grounded and connected properly.
  - Check your antenna connections; make sure the antenna is properly grounded at its mounting location.
- The antenna may not be the proper length.
  - Make sure the antenna is fully extended; if broken, replace the antenna with a new one.

Broadcast is noisy.
- The antenna is not the proper length.
  - Extend the antenna fully; replace it if it is broken.
- The antenna is poorly grounded.
  - Make sure the antenna is grounded properly at its mounting location.
- The station signal is weak and noisy.
  - If above solution does not work, tune in another station.

USB Audio

Unit does not operate.
- Condensation.
  - Wait a while (about 1 hour) for the condensation to dry.

Picture is unclear or noisy.
- Vehicle's battery power is weak.
  - Check the battery power and wiring.
    (The unit may malfunction if the battery power is under 11 volts with a load applied.)

Rear Seat Entertainment System

DVD sound is not being output from the rear monitor headphones.
- The external audio processor and DVD Player (DVE-5300) are optically connected.
  - Set the Audio Out of the DVD Player to "LPCM."

Disc

Disc playback sound is wavering.
- Moisture condensation in the disc module.
  - Allow enough time for the condensation to evaporate (about 1 hour).

Disc insertion not possible.
- A disc is already in this unit.
  - Eject the disc and remove it.
- The disc is being improperly inserted.
  - Insert the disc correctly. (See page 69)

Unable to fast forward or backward the disc.
- The disc has been damaged.
  - Eject the disc and discard it; using a damaged disc in your unit can cause damage to the mechanism.

Disc playback sound skips due to vibration.

- Improper mounting of the unit.
  - Securely re-mount the unit.
- Disc is very dirty.
  - Clean the disc.
- Disc has scratches.
  - Change the disc.
- The pick-up lens is dirty.
  - Do not use a commercially available lens cleaner disc. Consult your nearest Alpine dealer.

Disc playback sound skips without vibration.

- Dirty or scratched disc.
  - Clean the disc; a damaged disc should be replaced.

CD-R/CD-RW/DVD-R/DVD-RW/DVD+R/DVD+RW playback not possible.

- Close session (finalization) has not been performed.
  - Perform finalization and attempt playback again.

Error displays.

- Mechanical error.
  - Press ⏏. After the error indication disappears, insert the disc again. If the above-mentioned solution does not solve the problem, consult your nearest Alpine dealer.

MP3/WMA/AAC is not played back.

- Writing error occurred. The CD format is not compatible.
  - Make sure the CD has been written in a supported format. Refer to "About MP3/WMA/AAC" (pages 101 to 102), then rewrite in the format supported by this device.

Unit does not operate.

- Condensation.
  - Wait a while (about 1 hour) for the condensation to dry.

Playback does not start.

- Disc is loaded upside-down.
  - Check the disc and load it with the labelled side facing upward.
- Disc is dirty.
  - Clean the disc.
- A disc not able to play back with this unit is loaded.
  - Check if the disc is able to be played back.
- Parental lock is set.
  - Cancel the parental lock or change the rating level.

Picture is unclear or noisy.

- Disc is being fast-forwarded or fast-reversed.
  - The picture may be slightly disturbed, but this is normal.
- Vehicle's battery power is weak.
  - Check the battery power and wiring.
    (The unit may malfunction if the battery power is under 11 volts with a load applied.)

Image stops sometimes.

- Disc is scratched.
  - Replaced with a non-scratched disc.

Navigation

The Navigation cannot work properly.

- Reset Navigation system.
  - Reinsert the SD card and turn the ignition key off, and then set to ON again.

If this Message Appears

Various messages are displayed on the screen during operation. In addition to the messages telling you the current status or providing guidance for the next operation, there are also the following error messages. If one of these error messages is displayed, carefully follow the instructions in the solution column.

System

If you are driving, please pull over before using this function.

- A setup operation, etc., was carried out while the vehicle was running.
  - Move the vehicle to a safe location, stop, and engage the parking brake, then carry out this operation.

USB current error.

- Abnormal current is run to the USB connector device.
  - Turn the ignition key off, and then set to ON again.
  - Attempt to connect another iPod/iPhone/USB Flash drive.

USB HUB is not supported.

- A USB flash drive with a hub is connected.
  - You cannot play back from a USB flash drive with a hub. USB hub connections are also not supported.

Audio/Visual

Connected USB device is not supported.

- An iPod/iPhone that is not supported by the unit is connected.
  - Connect an iPod/iPhone that is supported by the unit.
  - Reset the iPod.
- A USB device that is not supported by the unit is connected.
  - Attempt to connect another USB flash drive.
- Communication error.
  - Turn the ignition key off, and then set to ON again.
  - Check the display by reconnecting between the iPod/iPhone and the unit, using the iPod/iPhone cable.
  - Check the display by reconnecting between the USB flash drive and the unit.
- Caused by the iPod/iPhone Software Version not being compatible with this unit.
  - Update the iPod/iPhone Software Version to be compatible with this unit.
- The iPod/iPhone is not verified.
  - Change to another iPod/iPhone.

No data.

- There are no data in the iPod/iPhone.
  - Download data to the iPod/iPhone and connect to the unit.
- There are no data in the USB flash drive.
  - Download data to the USB flash drive and connect to this unit.

Un-readable song was skipped.

- A copy-protected WMA file has been detected.
  - You can only play back non-copy-protected files.
- A sampling rate/bit rate not supported by the unit is used.
  - Use a sampling rate/bit rate supported by the unit.

Bluetooth

Please connect Bluetooth audio device.

- The Bluetooth audio device was not connected correctly.
  - Check the settings for the unit and the Bluetooth audio device and reconnect.

Unable to download phonebook.

- Phonebook failed to read due to mobile phone disconnection, etc.
  - Check the mobile phone connection, and then conduct synchronizing and adding again. (See page 83)
- The connected mobile phone does not support synchronizing of its phone book.
  - Connect the mobile phone that supports synchronizing the phone book, then synchronize again. (See page 83)

HDMI

HDMI communication error,
Please check your device and operate it again.

- Communication error.
  - Turn the ignition key off, and then set to ON again.
  - Check the display by reconnecting between the HDMI and the unit, using the HDMI cable.
  - Check the display by reconnecting between the HDMI device and the unit.

HDMI current error,
Please Connect your device again.

- Abnormal current is run to the HDMI connector device.
  - Turn the ignition key off, and then set to ON again.
  - Disconnect the HDMI device from the unit, and then reconnect it.

HDMI monitor communication error.
Please check the connection or ACC off / on.

- HDMI device communication error.
  - Turn the engine (ACC) OFF/ON. Or, check the HDMI cable where it connects to the HDMI monitor.

Monitor connect via HDMI has been exceeded.
Please check the connection.

- More than 4 HDMI monitors are connected.
- A cascade connection using more than 2 distributors is made.
  - Use one distributor and less than 4 HDMI monitors when connecting.

iDataLink

CAN Communication error

- Communication error.
  - Check the iDataLink module connection.

SiriusXM

Check Tuner

- The SiriusXM Tuner is disconnected or the unit is having trouble communicating with the Tuner.
  - Connect the Tuner or check the Tuner connection to the back of the unit.

Check Antenna

- The SiriusXM Satellite Radio antenna or cable is either damaged or not connected correctly to the SiriusXM Tuner.
  - Check that the SiriusXM antenna cable is connected to the SiriusXM Tuner and check that the antenna cable is not kinked or otherwise damaged. Replace the antenna if necessary.

No Signal

- The SiriusXM satellite signal is too weak at the current location.
  - Move the vehicle to a location with a clear view of the southern sky.
  - Make sure the Satellite Radio antenna is properly mounted and not obstructed by metal objects.

Channel <xxx> Not Subscribed
Call SiriusXM To Subscribe

- The active channel has become unsubscribed or the requested channel is not available in your subscription package.
  - Visit www.siriusxm.com for information on subscribing to this channel.
  - The unit will revert to the previous selected channel or to channel 1 automatically.

Channel <xxx> Not Available

- The active channel is no longer in the SiriusXM channel lineup or the user has entered an invalid channel number.
  - Visit www.siriusxm.com for information on the current channel lineup.
- The unit will revert to the previous channel or to channel 1 automatically.

Subscription Updated
Press OK to Continue

- Your subscription has been updated.
  - Touch [OK] to clear this message.

Channel <xxx> Locked

- A locked channel is selected.
  - Input the passcode on the number keypad screen, see "Parental Lock Function" (page @@). If wrong passcode is input, "Incorrect Pass Code entered" will be displayed and the unit will revert to the previous channel.

Updating · · ·

- The Featured Favorites channels are during updating.

Updating Teams, please wait

- While the Game table is during updating, the [Game Alert Setup] button in SiriusXM setup mode is touched.

Replay Memory Full

- Buffer for Replay is full.

Replay Memory Near Full

- Buffer for Replay will full within 11 seconds.

X110 with DVE-5300X

DISC ERROR
- Mechanism error.
  1) Press ⏏ and eject the disc.
     If the disc does not eject, press ⏏ again for at least 3 seconds and eject the disc.
     If the disc still does not eject, consult your Alpine dealer.
  2) When the error indication remains after ejecting, press ⏏ again.
     If the error indication still does not turn off after pressing ⏏ a few times, consult your Alpine dealer.

LO-TEMP
- The temperature in the car is too low.
  - Raise the temperature in the car to normal temperature.

NO DISC
- No disc is inserted.
  - Insert a disc.
- Although a disc is inserted, "NO DISC" is displayed and the unit does not start to play or eject the disc.
  - Remove the disc by pressing ⏏ again for at least 3 seconds.

REGIONAL CODE VIOLATION
- Disc does not match regional code number.
  - Load a disc that matches the regional code number.

HI-TEMP
- Protective circuit is activated at high temperature.
  - The indicator will disappear when the temperature returns to within operation range.
  - Leave the power OFF until the temperature decreases and then turn the power ON again.

LOADING ERROR
EJECT ERROR
- Mechanism error.
  1) Press ⏏ and eject the disc.
     If the disc does not eject, press c again for at least 3 seconds and eject the disc.
     If the disc still does not eject, consult your Alpine dealer.
  2) When the error indication remains after ejecting, press ⏏ again.
     If the error indication still does not turn off after pressing ⏏ a few times, consult your Alpine dealer.

PROTECTED
- A copy-protected WMA file was played back.
  - You can only play back non-copy-protected files.

UNSUPPORTED
- A sampling rate/bit rate not supported by the unit is used.
  - Use a sampling rate/bit rate that is supported by the unit.

ILLEGAL FORMAT
- A disc with an unsupported region code or other copyright infringement has been inserted.
  - Change to another disc.

READ ERROR
- The unit cannot read a disc's TOC because the disc has many scratches or is very dirty.
  - Clean the dirty disc, and insert it again. Damaged discs should be replaced.

Navigation

The vehicle's position is erroneous.
- The GPS reception is poor.
  - Drive the vehicle in an area of good GPS reception to allow the unit to recalibrate itself. Move to a location where strong GPS reception is possible.

No operation
- Moisture condensation
  - Allow enough time for the condensation to evaporate (about 1 hour).
- Ambient Temperature
  - Make sure the temperature inside the vehicle is between 0°C and 45°C (32°F and 113°F).

Specifications

MONITOR SECTION

Screen Size	10" (X110)
	8" (X108U)
	7" (INE-W967HD)
LCD Type	Transparent type TN LCD
Operation System	TFT active matrix
Number of Picture Elements	1,152,000 pcs. (800 × 480 × 3 (RGB))
Effective Number of Picture Elements	
	99% or more
Illumination System	LED

FM TUNER SECTION

Tuning Range	87.7 – 107.9 MHz
Mono Usable Sensitivity	9.3 dBf (0.8 μV/75 ohms)
50 dB Quieting Sensitivity	13.5 dBf (1.3 μV/75 ohms)
Alternate Channel Selectivity	80 dB
Signal-to-Noise Ratio	65 dB
Stereo Separation	35 dB
Capture Ratio	2.0 dB

AM TUNER SECTION

Tuning Range	531 – 1,602 kHz
Usable Sensitivity	25.1 μV/28 dBf

USB SECTION

USB requirements	USB 2.0
Max. Power Consumption	1,500 mA (CDP Support)
USB Class	USB (Play From Device)/ USB (Mass Storage Class)
File System	FAT16/32
Number of Channels	2-Channels (Stereo)
Frequency Response[1]	5 – 20,000 Hz (±1 dB)
Total Harmonic Distortion	0.008% (at 1 kHz)
Dynamic Range	95 dB (at 1 kHz)
Signal-to-Noise Ratio	100 dB
Channel Separation	85 dB (at 1 kHz)

1 Frequency response may differ depending on the encoder software/bit rate.

HDMI SECTION

Input Format	720p/480p/VGA
Output Format	480p

GPS SECTION

GPS Reception frequency	1,575.42 ±1 MHz
GPS Reception sensitivity	-130 dB max.

Bluetooth SECTION

Bluetooth Specification	Bluetooth V3.0
Output Power	-2 dBm Ave. (Power class 2)
Profile	HFP (Hands-Free Profile)
	OPP (Object Push Profile)
	PBAP (Phone Book Access Profile)
	A2DP (Advanced Audio Distribution Profile)
	AVRCP (Audio/Video Remote Control Profile)
	SPP (Serial Port Profile)

GENERAL

Power Requirement	14.4 V DC (11–16 V allowable)
Operating temperature	-4°F to +140°F (-20°C to + 60°C)
Maximum Power Output	50 W × 4
Weight	2.9 kg (6 lbs. 6 oz) (X108U)
	2.7 kg (5 lbs. 15 oz) (INE-W967HD)
Audio output level	
Preout (Front, Rear):	4V/10k ohms (max.)
Preout (Subwoofer):	4V/10k ohms (max.)

CHASSIS SIZE

Width	178 mm (7-1/8")
Height	100 mm (4")
Depth	147 mm (5-7/8")

NOSE SIZE

Width	190.5 mm (7-1/2") (X108U)
	171 mm (6-3/4") (INE-W967HD)
Height	120.5 mm (4-3/4") (X108U)
	96 mm (3-7/8") (INE-W967HD)
Depth	19 mm (3/4") (X108U)
	19 mm (3/4") (INE-W967HD)

- *Due to continuous product improvement, specifications and design are subject to change without notice.*
- *The LCD panel is manufactured using an extremely high precision manufacturing technology. Its effective pixel ratio is over 99.99%. This means that there is a possibility that 0.01% of the pixels could be either always ON or OFF.*

CD/DVD SECTION

Frequency Response	CD: 5 – 20,000 Hz (± 1 dB)
Wow & Flutter (% WRMS)	Below measurable limits
Total Harmonic Distortion	0.02 % (at 1 kHz)
Dynamic Range	95 dB (at 1 kHz)
Channel Separation	65 dB (at 1 kHz)
Horizontal resolution	500 lines or greater
Video output level	1Vp-p (75 ohms)
Video S/N ratio	DVD: 60 dB
Audio S/N ratio	95 dB

PICKUP

Wave length	DVD: 665 nm
	CD: 800 nm
Laser power	CLASS II

REMOTE CONTROL

Battery Type	CR2025 battery
Width	42 mm (1-11/16")
Height	90 mm (3-5/8")
Depth	11.6 mm (15/32")
Weight	50 g (2 oz) (battery excluded)

CAUTION-Laser radiation when open, DO NOT STARE INTO BEAM

(Bottom side of player)

END USER LICENSE AGREEMENT (HERE)

In using this Navigation System (hereinafter referred to as "System"), which includes Alpine Electronics, Inc. ("Alpine") Specifications, Space Machine, Inc. ("Space Machine") Software and HERE North America, LLC. ("HERE") Database, you are bound by the terms and conditions set forth below. By breaking the seal on the System and using your copy of the System, you have demonstrated your agreement to the terms and conditions of this Agreement. You should, therefore, make sure that you read and understand the following provisions.

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The System may not be used in a network or by any other manner of simultaneous use in multiple systems.
The System is intended solely for personal use (or internal use where the end-user is a business) by the consumer.
The System is not to be used for commercial purposes.
Neither Alpine, Space Machine nor HERE guarantees to the customer that the System meet the specific objectives of the user.
Neither Alpine, Space Machine nor HERE shall be responsible for any damages caused by the use of the System to the actual user and to any third party.
The warranty on the System shall not extend to an exchange or refund due to misspelling, omission of letters, or any other cosmetic discrepancy in layout found in the System.
The right to use the System shall expire either when the user destroys this software, or when any of the terms for use is violated and Alpine, Space Machine and/or HERE exercise the option to revoke the license to use this software.
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//////ALPINE®

LIMITED WARRANTY

ALPINE ELECTRONICS OF AMERICA, INC. ("Alpine"), is dedicated to quality craftsmanship and is pleased to offer this Warranty. We suggest that you read it thoroughly. Should you have any questions, please contact your Dealer or contact Alpine at one of the telephone numbers listed below.

● **PRODUCTS COVERED:**

This Warranty covers Car Audio Products and Related Accessories ("the product"). Products purchased in the Canada are covered only in the Canada. Products purchased in the U.S.A. are covered only in the U.S.A.

● **LENGTH OF WARRANTY:**

This Warranty is in effect for one year from the date of the first consumer purchase.

● **WHO IS COVERED:**

This Warranty only covers the original purchaser of the product, who must reside in the United States, Puerto Rico or Canada.

● **WHAT IS COVERED:**

This Warranty covers defects in materials or workmanship (parts and labor) in the product.

● **WHAT IS NOT COVERED:**

This Warranty does not cover the following:

① Damage occurring during shipment of the product to Alpine for repair (claims must be presented to the carrier).

② Damage caused by accident or abuse, including burned voice coils caused by over-driving the speaker (amplifier level is turned up and driven into distortion or clipping). Speaker mechanical failure (e.g. punctures, tears or rips). Cracked or damaged LCD panels. Dropped or damaged hard drives.

③ Damage caused by negligence, misuse, improper operation or failure to follow instructions contained in the Owner's manual.

④ Damage caused by act of God, including without limitation, earthquake, fire, flood, storms or other acts of nature.
Any cost or expense related to the removal or reinstallation of the product.

⑤ Service performed by an unauthorized person, company or association.

⑥ Any product which has the serial number defaced, altered or removed.

⑦ Any product which has been adjusted, altered or modified without Alpine's consent.

⑧ Any product not distributed by Alpine within the United States, Puerto Rico or Canada.

⑨ Any product not purchased from an Authorized Alpine Dealer.

● **HOW TO OBTAIN WARRANTY SERVICE:**

① You are responsible for delivery of the product to an Authorized Alpine Service Center or Alpine for repair and for payment of any initial shipping charges. Alpine will, at its option, repair or replace the product with a new or reconditioned product without charge. If the repairs are covered by the warranty, and if the product was shipped to an Authorized Alpine Service Center or Alpine, Alpine will pay the return shipping charges.

② You should provide a detailed description of the problem(s) for which service is required.

③ You must supply proof of your purchase of the product.

④ You must package the product securely to avoid damage during shipment. To prevent lost packages it is recommended to use a carrier that provides a tracking service.

● **HOW WE LIMIT IMPLIED WARRANTIES:**

ANY IMPLIED WARRANTIES INCLUDING FITNESS FOR USE AND MERCHANTABILITY ARE LIMITED IN DURATION TO THE PERIOD OF THE EXPRESS WARRANTY SET FORTH ABOVE AND NO PERSON IS AUTHORIZED TO ASSUME FOR ALPINE ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT.

● **HOW WE EXCLUDE CERTAIN DAMAGES:**

ALPINE EXPRESSLY DISCLAIMS LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES CAUSED BY THE PRODUCT. THE TERM "INCIDENTAL DAMAGES" REFERS TO EXPENSES OF TRANSPORTING THE PRODUCT TO THE ALPINE SERVICE CENTER, LOSS OF THE ORIGINAL PURCHASER'S TIME, LOSS OF THE USE OF THE PRODUCT, BUS FARES, CAR RENTALS OR OTHERS COSTS RELATING TO THE CARE AND CUSTODY OF THE PRODUCT. THE TERM "CONSEQUENTIAL DAMAGES" REFERS TO THE COST OF REPAIRING OR REPLACING OTHER PROPERTY WHICH IS DAMAGED WHEN THIS PRODUCT DOES NOT WORK PROPERLY. THE REMEDIES PROVIDED UNDER THIS WARRANTY ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS.

● **HOW STATE/PROVINCIAL LAW RELATES TO THE WARRANTY:**

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state and province to province. In addition, some states/provinces do not allow limitations on how long an implied warranty lasts, and some do not allow the exclusion or limitation of incidental or consequential damages. Accordingly, limitations as to these matters contained herein may not apply to you.

● **IN CANADA ONLY:**

This Warranty is not valid unless your Alpine car audio product has been installed in your vehicle by an Authorized Installation Center, and this warranty stamped upon installation by the installation center.

● **HOW TO CONTACT CUSTOMER SERVICE:**

Should the product require service, please call the following number for your nearest Authorized Alpine Service Center.

| CAR AUDIO | 1-800-ALPINE-1 (1-800-257-4631) |
| NAVIGATION | 1-888-NAV-HELP (1-888-628-4357) |

Or visit our website at; http://www.alpine-usa.com

ALPINE ELECTRONICS OF AMERICA, INC., 19145 Gramercy Place, Torrance, California 90501, U.S.A.
Do not send products to this address.
Call the toll free telephone number or visit the website to locate a service center.

About the Rules of Bluetooth Electromagnetic Radiation Regulation

USA/Canada	Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person's body. This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device. Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles les radioélectriques (RF) de la FCC lignes directrices d'exposition et d'exposition aux fréquences radioélectriques (RF) CNR-102 del'IC. Cet équipement émet une énergie RF très faible qui est considérée conforme sans évaluation de l'exposition maximale autorisée (MPE). Cependant, il est souhaitable qu'il devrait être installé et utilisé en gardant une distance de 20 cm ou plus entre le radiateur et le corps humain. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : 1) l'appareil ne doit pas produire de brouillage; 2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Don't forget to take a moment to protect your purchase by registering your product now at the following address: www.alpine-usa.com/registration.

N'oubliez pas de consacrer un moment à la protection de votre achat en enregistrant votre produit dès maintenant à l'adresse suivante : www.alpine-usa.com/registration.

Recuerde que con solo unos pocos pasos podrá proteger su producto, registrándolo a través de la siguiente dirección: www.alpine-usa.com/registration.