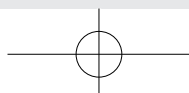
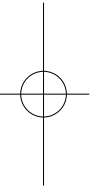
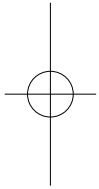


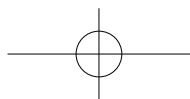
clarion®

Owner's manual

NX403A

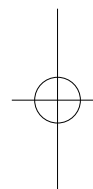
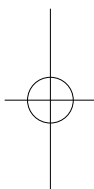
**DVD MULTIMEDIA STATION WITH BUILT-IN
NAVIGATION & 6.2" TOUCH PANEL CONTROL**



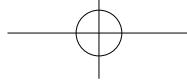


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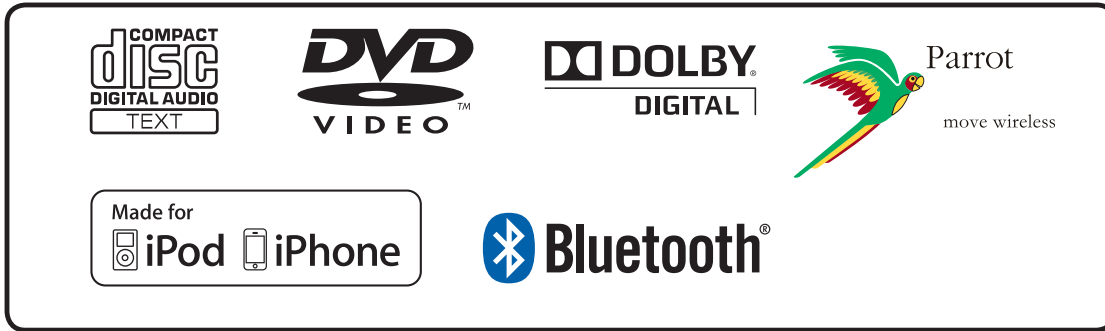


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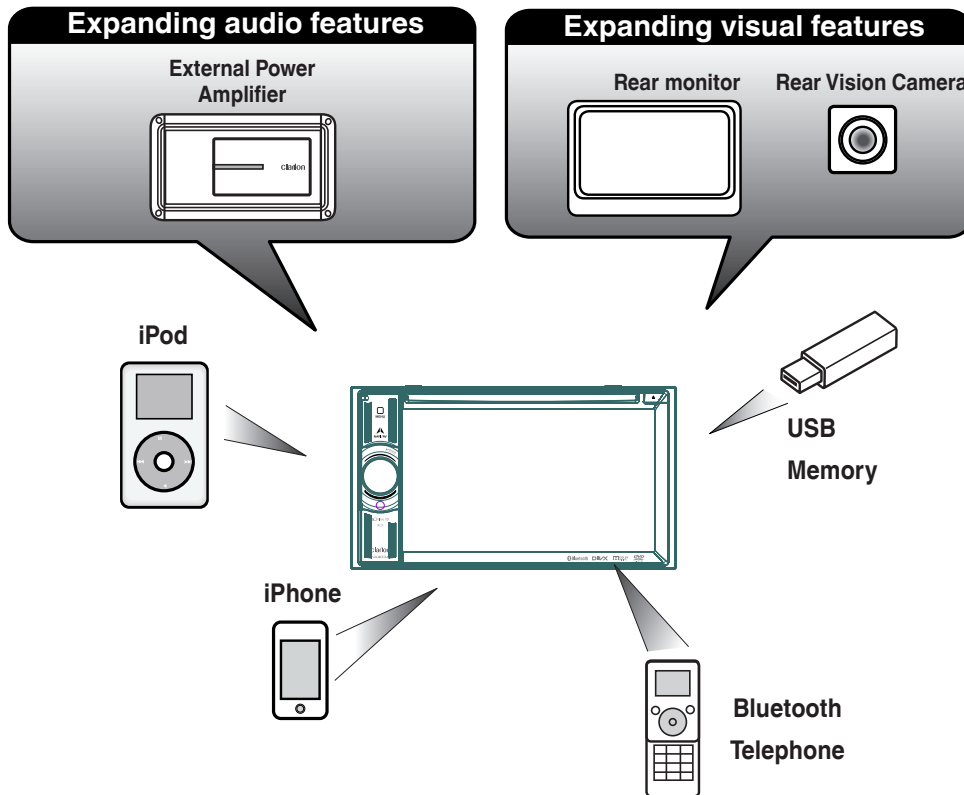


1. FEATURES

- Built-in Parrot Bluetooth® Handsfree(HFP) and Audio Streaming(A2DP & AVRCP)
- Compatible with iPod® / iPhone® with Album Art



Expanding Systems



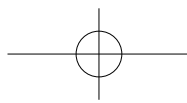
NOTE:

The items listed outside the frames are the commercial products generally sold.

2. PRECAUTIONS

WARNING

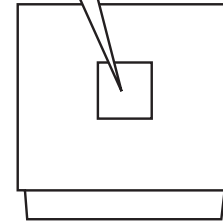
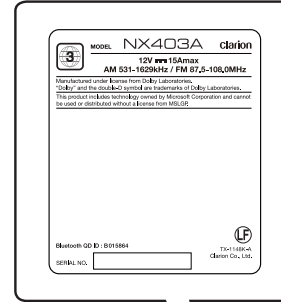
- For your safety, the driver should not watch any video sources and/or operate the controls while driving. Please note that watching and operating any video sources while driving are prohibited by law in some countries. Also, while driving, keep the volume to a level at which external sounds can be heard.
- Do not disassemble or modify this unit. It may cause an accident, fire, or electric shock.
- Do not use this unit when a trouble exists, such as no screen content appears or no sound is audible. It may cause an accident, fire, or electric shock. For that case, consult your authorized dealer or a nearest Clarion service center.
- In case of a problem, such as any material has been entered in the unit, the unit gets wet, or smoke or strange smells come out of the unit, etc., stop using this unit immediately, and consult your authorized dealer or a nearest Clarion service center. Using it in that condition may cause an accident, fire, or electric shock.
- Use a fuse with the same specification only when replacing the fuse. Using a fuse with a different specification may causes a fire.
- For the installation of this unit or a change in the installation, ask your authorized dealer or a nearest Clarion service center for safety. Professional skills and experiences are required to do so.



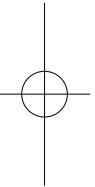
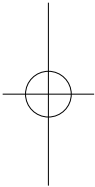
1. When the inside of the car is very cold and the player is used soon after switching on the heater, moisture may form on the disc (DVD/CD) or the optical parts of the player and proper playback may not be possible. If moisture forms on the disc (DVD/CD), wipe it off with a soft cloth. If moisture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allowing normal operation.

2. Driving on extremely bumpy roads which cause severe vibration may cause the sound to skip.

3. This unit uses a precision mechanism. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts.



NX403A



3. CAUTIONS ON HANDLING

Operation Panel

For a longer service life, be sure to read the following cautions.

- The operation panel will operate properly in a temperature range of 0° to 60° C.
- Do not allow any liquids on the set from drinks, umbrellas etc. Doing so may damage the internal circuitry.
- Do not disassemble or modify the set in any way. Doing so may result in damage.
- Subjecting the operation panel to shocks may result in breakage, deformation or other damage.
- Do not let cigarettes burn the display.
- If a problem should occur, have the set inspected at your store of purchase.
- Do not insert objects or poke in the space between the operation panel and the main unit when the panel is tilted.
- The remote control unit may not work if the remote control sensor is exposed to direct sunlight.
- In extremely cold weather, the display movement may slow down and the display may darken, but this is not a malfunction. The display will work normally when the temperature increases.
- Small black and shiny spots inside the liquid crystal panel are normal for LCD products.

USB Port

- The USB memory stick may stick out when inserted, so it may cause danger during driving. In such cases, you can use a commercial USB extension cable, etc., but use it safely under your own judgement.
- The USB memory sticks must be recognized as "USB mass storage class" to work properly. Some models may not operate correctly.
- Data files may be broken when using USB memory sticks in the following situation:
When disconnecting the USB memory stick or turning the power off during writing or reading data.
When affected by static electricity or electric noise.
Connect/disconnect the USB memory stick when it is not accessed.
- Some USB memory sticks cannot be inserted to the main unit because of their shape. In such cases, use a commercial USB extension cable to connect them.
- Connecting with the computer is not covered.
- Music files (MP3, WMA, etc.) stored in the USB memory stick can be played back.

When the memorized data is lost or damaged by any chance, Clarion shall not be liable for any damage.

When using an USB memory stick, we recommend that you backup your data stored on it before by using a personal computer etc.

Cleaning

Cleaning the cabinet

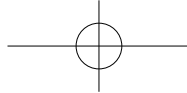
Use a soft, dry cloth and gently wipe off the dirt. For tough dirt, apply some neutral detergent diluted in water to a soft cloth, wipe off the dirt gently, then wipe again with a dry cloth.

Do not use benzene, thinner, car cleaner, etc., as these substances may damage the cabinet or cause the paint to peel. Also, leaving rubber or plastic products in contact with the cabinet

for long periods of time may cause stains.

Cleaning the liquid crystal panel

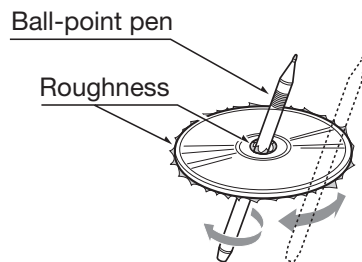
The liquid crystal panel tends to collect dust, so wipe it off occasionally with a soft cloth. The surface is easily scratched, so do not rub it with hard objects.



Handling Discs

Handling

- New discs may have some roughness around the edges. If such discs are used, the player may not work or the sound may skip. Use a ball-point pen or the like to remove any roughness from the edge of the disc.



Never stick labels on the surface of the disc or mark the surface with a pencil or pen.

- Never play a disc with any cellophane tape or other glue on it or with peeling off marks. If you try to play such a disc, you may not be able to get it back out of the DVD player or it may damage the DVD player.
- Do not use discs that have large scratches, are misshapen, cracked, etc. Use of such discs may cause misoperation or damage.
- To remove a disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.
- Do not use commercially available disc protection sheets or discs equipped with stabilizers, etc. These may damage the disc or cause breakdown of the internal mechanism.

Storage

- Do not expose discs to direct sunlight or any heat source.
- Do not expose discs to excess humidity or dust.
- Do not expose discs to direct heat from heaters.

Cleaning

- To remove fingermarks and dust, use a soft cloth and wipe in a straight line from the center of the disc to the circumference.
- Do not use any solvents, such as commercially available cleaners, anti-static spray, or thinner to clean discs.
- After using special disc cleaner, let the disc dry off well before playing it.

On Discs

- Exercise a good precaution when loading a disc. The operation panel will close automatically when leaving it open for a while.
- Never turn off the power and remove the unit from the car with a disc loaded.

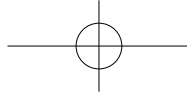
CAUTION

For your safety, the driver should not insert or eject a disc, opening the operation panel while driving.

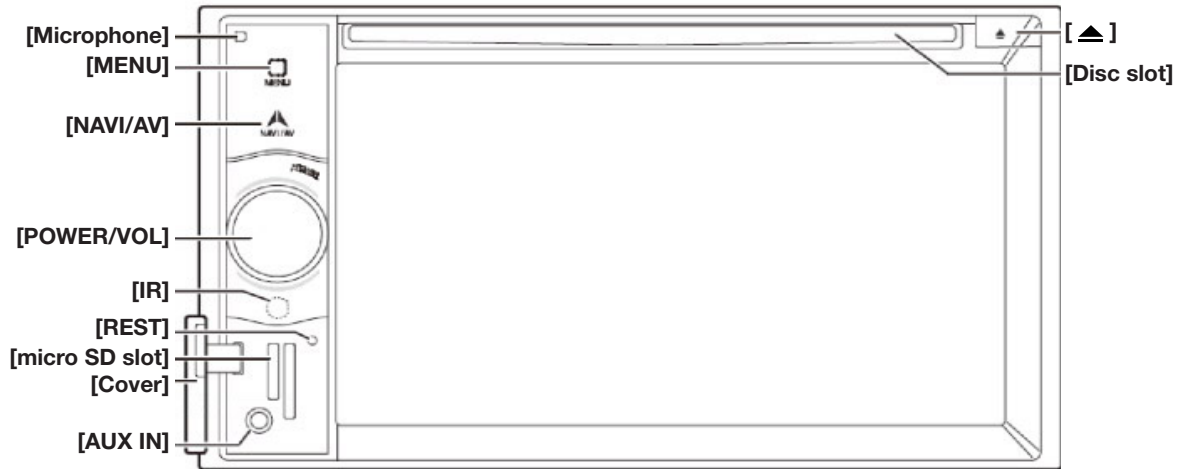


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4. Operational Panel



Functions of Buttons

[POWER/VOL] Knob

- Press this button to turn on the power.
- When the power is already on, it moves to the Navigation mode. If Navigation mode is displayed, it moves to the Navigation menu.
- Keep pressing this button more than 2 second to turn off the power.
- Turn this button to left or right to decrease or increase the volume of the system.

[NAVI/AV] Button

- Press this button to display NAVI, press again to return current source.
- Press and hold this button for 2 seconds to display the brightness setting menu.

[▲] Eject

- Press to eject disc from unit.

[MENU] Button

- Press this button to display main menu; press again to return current source.
- Press and hold this button for 2 seconds to turn off the monitor. Press any place of the screen to turn on the monitor again.

[RESET] Button

- Press this button to hardware reset the unit.

Note: When the **[RESET]** button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.

[micro SD slot]

Insert a micro SD Card for MAP here. The micro SD card for MAP is sold separately.

Note: The micro SD card is only for navigation. Please don't insert micro SD card for other purpose. After insertion of micro SD card for MAP, don't remove it; otherwise, the navigation function will be disabled.

[AUX IN]

AUX 1 Connector.

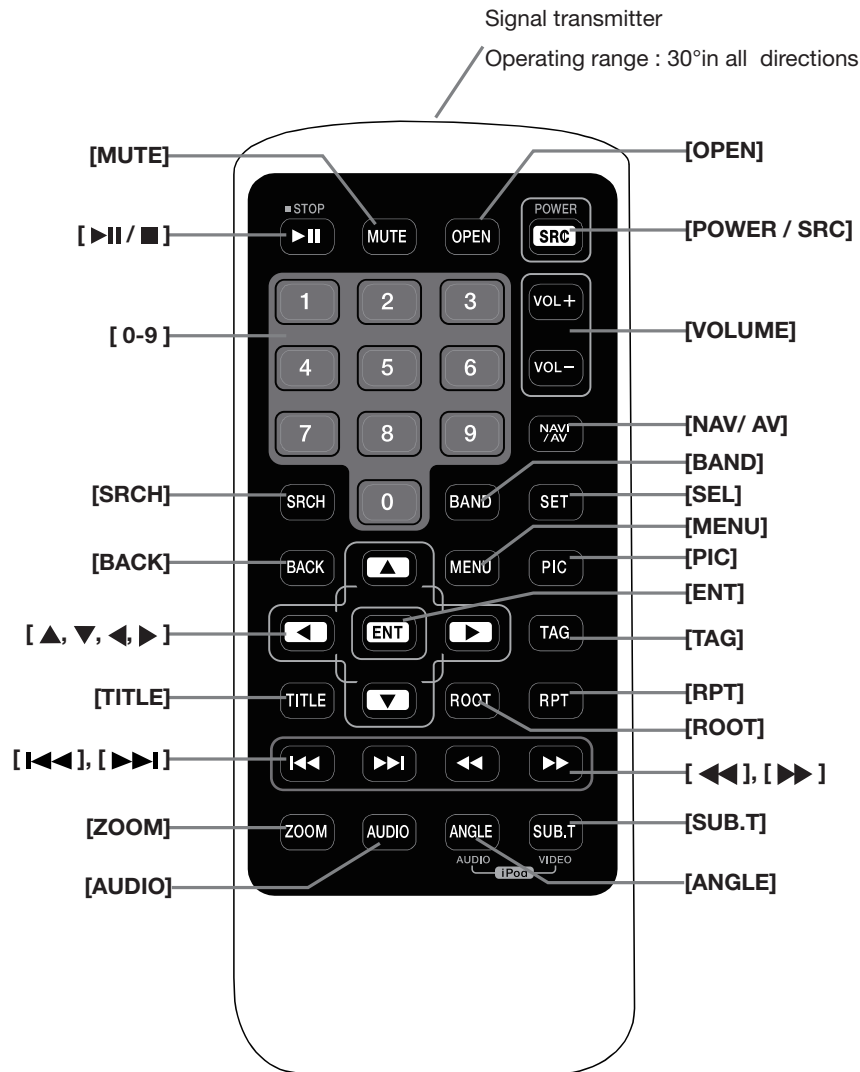
[Microphone]

This is used for Bluetooth phone.

[IR] SENSOR

- Receiver for the remote control unit (operating range: 30 degree ins all directions).

5. REMOTE CONTROL



Replacing the batteries

1. Press the retention tab and pull out the battery tray and remove the old battery.
2. Insert the new CR2025 battery and slide the battery tray back in the remote control the same direction that you removed it. Please ensure the tray is inserted in the correct direction.

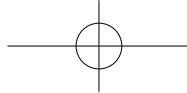
Note:

Using batteries improperly can cause them to explode. Take note of the following points:

- When replacing batteries, replace both batteries with new ones.
- Do not short-circuit, disassemble or heat batteries.
- Do not dispose of batteries into fire or flames.
- Dispose of spent batteries properly.

⚠ WARNING

Lithium batteries contain
Perchlorate
Dispose of discharged batteries properly.



Functions of Remote Control Buttons

You can use the remote control unit to control the NX403A.


Note:

- The wireless remote control operation may not be optimal in direct sunlight.

[▶|| / ■] Button

- Press this button to play or pause video and audio media.
- Press this button more than 1 second to stop video and audio media.

[MUTE] Button

- Mute or Unmute the speaker.
- The symbol  on upper right area of the screen indicates that speaker is muted.

[POWER/SRC] Button

- Press this button to move the focus to next available source item on main menu.
- Press this button to power on when the unit is power off.
- Press this button more than 1 second to power off when the unit is power on.

[0 - 9] Buttons

- Use in the Key Pad screen to select the radio or Satellite Radio.
- Use to select the track in the track list screen.
- Press to enter DVD video chapters/titles in the Key Pad screen.

[VOLUME] Buttons

- Increase and decrease volume.

[NAVI/AV] Button

- Press this button to switch between current source and current position on navigation map.

[SRCH] Button

- Press this button to open chapter or title search window while playing DVD.

[BAND] button

- Switch to next band alternately.

[SET] Button

- Press this button to open the Audio setting menu in any mode.

[BACK] Button

- Press this button to quit main menu if current screen is main menu.

[▲], [▼], [◀], [▶] Buttons

- Press this button for cursor movement in main menu or Setting mode.
- From the main menu, you can select your desired source or change your settings.

[MENU] Button

- Press this button to enter the MAIN MENU or return current resource.

[PIC] Button

- Press and hold this button to change your monitor brightness.

[ENT] Button

- Press to fix the entered data in the Key Pad screen or enter the item the cursor is on.

[TAG] Button

- The button is not effective.

[TITLE] Button

- Press to go to the title menu on the DVD.

[ROOT] Button

- Press to go to the root menu on the DVD.

[RPT] Button

- Press to perform chapter repeat / title repeat / repeat off while playing DVD mode.
- Press to perform track repeat/repeat off while playing CD.
- Press to perform repeat track /repeat folder/ repeat off while playing MP3/WMA, or video files on disc.
- Press to perform repeat track /repeat folder/ repeat off while playing MP3/WMA, or video files in USB memory.

[◀◀], [▶▶] Buttons

- Press to seek the next available higher or lower station in Tuner mode.
- In SIRIUS Radio mode, you will scroll through the categories.
- Press to select the next higher or lower chapter number in DVD video mode.
- Press to select the next higher or lower track in DVD Audio, USB Video, USB Audio mode.
- Press for movement of background source in Navigation mode.

[◀◀], [▶▶] Buttons

- Press to manually select the next higher or lower station in Tuner and Satellite Radio modes.
- Press to perform fast-forward or fast-backward searching. Press again to change the speed to 2x, 4x, 8x or 16x.
- Press for movement of background source in

Navigation mode.

[ZOOM] Button

- Press to turn on and zoom in while playing DVD. You can zoom in up to 3x. (No all DVD disc supports this function).

[AUDIO] Button

- Press to switch the AUDIO channel of the disc while playing DVD.

[SUB-T] Button

- Press to switch next available subtitle while playing DVD.

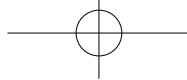
- Press to display Video menu in iPod mode.

[ANGLE] Button

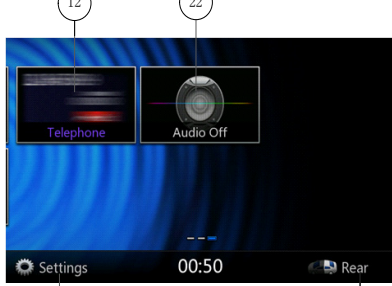
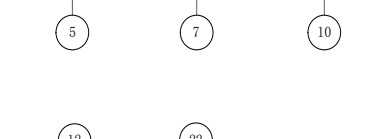
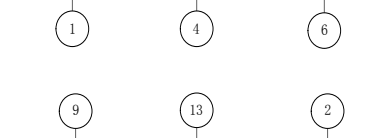
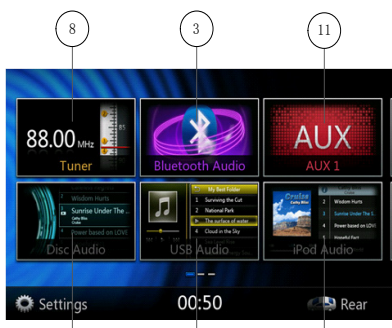
- Press to switch the different ANGLE while playing DVD. (No all DVD disc supports this function)
- Press to display Audio menu in iPod mode.

[OPEN] Button

- The button is not effective.



6. MAIN MENU



- 1 - Disc Audio---Press the button to display the Disc Audio mode.
- 2 - Disc Video---Press the button to display the Disc Video mode.
- 3 - Bluetooth Audio--- Press the button to display the Bluetooth Audio mode.
- 4 - USB Audio---Press the button to display the USB Audio mode.
- 5 - USB Video---Press the button to display the USB Video mode.
- 6 - iPod Audio---Press the button to display the iPod Audio mode.
- 7 - iPod Video---Press the button to display the iPod Video mode.
- 8 - Tuner---Press the button to display the Tuner mode.
- 9 - Camera---Press the button to display the Camera mode.
- 10 - Navigation---Press the button to display the Navigation mode.
- 11 - AUX1 ---Press the button to display the AUX1 mode.
- 12 - Telephone--- Press the button to display the Telephone mode.
- 13 - AUX2 ---Press the button to display the AUX2 mode.
- 14 - Setting Button---Press the button to display the Setting menu.
- 15 - Rear Button---Press the button to display the Rear menu.
- 16 - Front Button---Press the button to display the Front main menu.
- 17 - Rear iPod Video---Press the button to display the Rear iPod Video mode.
- 18 - Rear Disc Video---Press the button to display the Rear Disc Video mode.
- 19 - Rear AUX 2---Press the button to display the Rear AUX2 mode
- 20 - 2-Zone Off---Press the button to close the rear activity.
- 21 - Rear AUX 1---Press the button to display the Rear AUX1 mode.
- 22 - Audio off---Press the button to make audio source voice off.

Scrolling the menu

Press screen and scrolling to right or left it will switch to next or previous page of main menu.

Moving the menu position

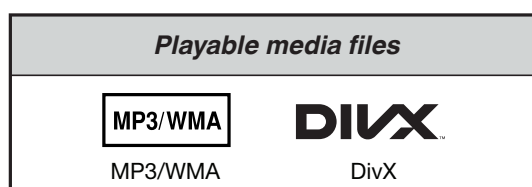
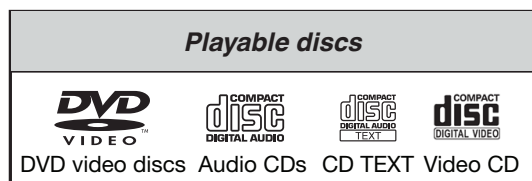
- 1. Press any quadrate icon on main menu more than 2 seconds, the icon will float on main menu.
- 2. Scrolling the floating icon to any position you want.

7. DVD Video Player Operations

Discs

Playable discs

This DVD video player can play the following discs.



About CD Extra discs

A CD Extra disc is a disc in which a total of two sessions have been recorded. The first session is Audio session and the second session is Data session.

Your personally-created CDs with more than second data sessions recorded cannot be played on this DVD video player.

Note:

- When you play a CD Extra disc, only the first session will be recognized.

About playing a CD-R/CD-RW disc (MP3, WMA)

This player can play CD-R/CD-RW discs previously recorded in music CD format (MP3, WMA).

About playing a DVD-R/RW or DVD+R/RW disc

This player cannot play DVD-R/RW and DVD+R/RW discs previously recorded in video CD format.

However, MP3/WMA files recorded on DVD-R/RW and DVD+R/RW discs can be played.

Discs that cannot be played back

This DVD video player cannot play back DVD-

Audio, DVD-RAM, Photo CDs, etc.

Note:

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

About MP3/WMA playback

This unit can play back CD-R/CD-RW, DVD-R/RW and DVD+R/RW discs on which MP3/WMA music data have been recorded.

For a detailed information, see the section entitled "Listening to MP3/WMA".

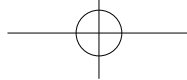
Note on region numbers

The DVD video system assigns a region number to DVD video players and DVD discs by sales area. DVD video players sold in Asia can play back DVD discs with the region number "ALL", "3" or any combination of numbers that also incorporate a "3".

The DVD video region number is marked on the disc jacket as shown below.



Asia



Change DVD System Settings

Note:

If the setup operation is performed in the middle of DVD video play, the disc will restart from the beginning.

Selecting DVD Setup Menu

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



Setting up the Screen Size

Press the **[DVD Wide Screen Mode]** button to turn on or turn off the DVD wide screen mode.

The factory default setting is "off"

Note: Not all DVD disc support this function.

Setting up the password for parental level control

The factory default pass code is "0000".

1. In **Main Menu** press **[Settings]** button. Press **[Others]** button on the display. Touch the **[Set Password]** ---- and a numerical key pad will appear.



Input a new password and come again. The password is set.

Note:

When a disc with view restrictions is inserted, you will be prompted to input this password. The disc will not be viewable until the correct password is entered.

Set rating for parental level control

1. Select **Others** screen while in **Setting** mode. Press **[Parental Control]** button. Press the desired rating for level control. Use this table to set the parental level.

Kid Safe	Kid Safe
G	General Audiences
PG	Parental Guidance Suggested
PG-13	Parents Strongly Cautioned
PG-R	Parental Guidance Restricted
R	Restricted
NC-17	No One 17 And Under Admitted
Adult	Only Adult

- The contents that the parental level restricts vary with the country code.

Note: The rating can be selected only under the password unlocked status, and the limits can be set only under the password locked status.

Watching to a disc

1. To load a disc:

Insert the disc into the center of the insertion slot the label side facing up.

CAUTION

For your safety, the driver should not insert or eject a disc, opening the operation panel while driving.

Note:

- Never insert foreign objects into the disc insertion slot.
- If the disc is not inserted easily, there may be another disc in the mechanism or the unit may require service.
- 8cm (single play) discs cannot be used.

2. Disc starts playing automatically.

WARNING

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

Ejecting a disc

1. To eject a disc press eject **[▲]** button. The play mode then switches to the Tuner mode.

If the disc is left in the ejected position for 10 seconds, the disc is automatically reloaded. In this case, the play mode will remain in the Tuner mode.

Note: If you force a disc into before auto reloading, it may damage a disc. Change DVD System Settings

Showing DVD Player mode screen

-After disc is loaded, the play mode is automatically engaged.

Touch any place of the screen to display DVD Video menu touch the screen again to return the playback screen. The display will return to the playback screen, if you do not touch the screen for 10 seconds.



- 1 - Option Button
- 2 - Show Cursor keys Button
- 3 - Previous Chapter /Fast Backward Button
- 4 - Play/Pause Button
- 5 - Next Chapter /Fast Forward Button
- 6 - Elapsed playing time
- 7 - Seek bar
- 8 - Total time
- 9 - Menu List Button
- 10 - System time
- 11 - Bluetooth status
- 12 - Front /Rear Button.
- 13 - DVD playback info
- 14 - Shortcut Button
- 15 - Repeat Switching Button
- 16 - Audio Channel switching Button
- 17 - Subtitle switching Button
- 18 - Info Button
- 19 - Direct chapter or title searching Button

Operate the DVD Player menu

You can select the button items displayed in the DVD menu by directly touching it.

Play/Pause Playback

1. Touch [] button to pause during playback.
2. Touch [] button again to resume playback.

Skip (Search) a Chapter

1. Press [] or [] button during playback. Chapters are skipped down or up from current locations, as many times as the button is pressed, and playback starts.

Seek use seek bar

Press the triangle on seek bar and drag it to any position where you want to start playback.

Fast Forward/Fast Backward

1. Press [] or [] button and hold 2 seconds to start fast backward or fast forward during playback. The playback speed starts at 2x, then will increase to 4x, 8x, and 16x. Release the button will continue playing with normal speed.

Note:

- No audio is reproduced during fast forward and fast backward operation.
- The fast forward and fast backward speed may differ depending on the disc.

Search function

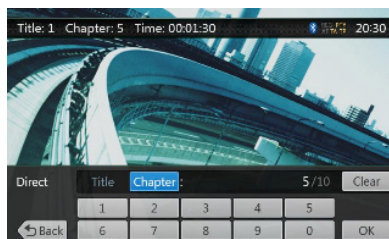
You can locate the beginning of a scene using the chapter numbers or title numbers recorded on the DVD Video disc.

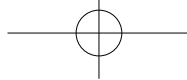
1. Showing the DVD Video menu, touch [] button. The Key Pad screen appears with the chapter/Title number input mode.

Touching [] button turns the Key Pad to the chapter number input mode.

Touching [] button turns the Key Pad to the title number input mode.

- Title
A large segment to divide the data area of the disc.
 - Chapter
A small segment to divide the data area of the disc.
2. Input the number of the title/chapter that you want to play with the [0] to [9] key.
 3. Touch the [] button. Change DVD System Settings





Playback starts from the scene of the input title number or chapter number.

NOTE:

*If the input title/chapter number does not exist or searching with a title/chapter number is not allowed, the screen image will not change.

4. Touch [Back] button to close the key pad.

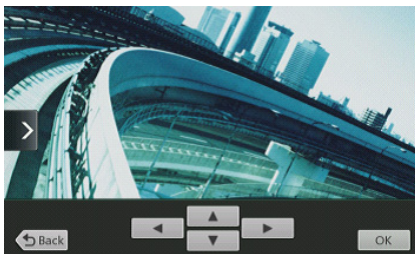
Repeat Playback

This operation plays back chapters recorded on the DVD-Video repeatedly.

1. Showing the DVD Video menu, touch [Repeat] button.
2. Touch [Repeat] key once for Repeat Chapter, again for Repeat Title.
3. Press [Repeat] button again to turn off the repeat playback.

Using the Title Menu

On DVD discs containing two or more titles, you can select from the title menu for playback.



1. Showing the DVD Video menu, touch [Title] button during playback.
- * Depending on the disc, the title menu may not be called.
2. Touch the title menu screen. And touch the Show Cursor keys Button.
3. Select the items in the title menu screen by [directional buttons].
- * Depending on the disc, items may not be selected with the directional buttons.
4. Touch [OK] button to fix on the selected item.
5. Touch [Back] button.

Switching Audio

On discs in which two or more audios or audio languages have been recorded, you can switch among the audio languages during playback.

1. Showing the DVD Video menu, touch [Audio] button during playback.
 - Each time you touch the button, you can switch among audio languages.
 - It may take time to switch among audios. Depending on the disc, up to 8 kinds of audios may be recorded. For details, see the mark of the disc: (8) Indicates that 8 audios have been recorded.
- When the power is turned on and when the disc is changed to a new one, the language set as the factory default is selected. If that language has not

been recorded on disc the language is specified on the disc.

Depending on the disc, switching may be completely impossible or impossible on some scenes.

Switching Subtitles

On DVD discs in with two or more subtitle languages have been recorded, you can switch among the subtitle languages during playback.

1. Showing the DVD Video menu, touch [Subtitle] button to select a subtitle during playback. Each time you touch the key, you can switch among subtitles.
- It may take time to switch among subtitles. Depending on the disc, up to 32 kinds of subtitles may be recorded. For details, see the mark of the disc: (8) Indicates that 8 kinds of subtitles have been recorded). Depending on the disc, switching may be completely impossible or impossible on some scenes.
2. To turn off subtitles, repeat touching [Subtitle] button until subtitles are turned off.

Displaying the playback status

Touch [Info] button on DVD Player mode screen, Playback status is displayed on screen.

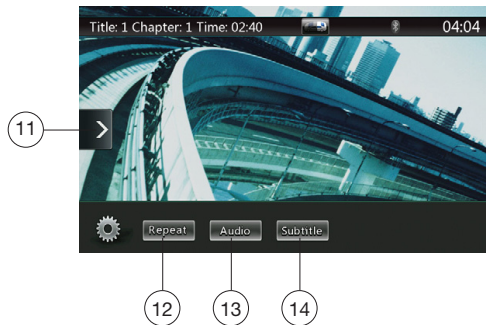
Play MP4/Divx video files

This system can play video files (AVI/MP4, etc.) stored on disc.

Showing video files Player mode screen

1. After disc with video files is loaded, touch [Disc Video] button on MAIN MENU to show video files player mode screen.
2. Touch the screen of the playing video file to display Video files player menu touch the screen again to return the playback screen. The display will return to the playback screen, if you do not touch the screen for 10 seconds.





- 1 - Change Menu Bar Button
- 2 - Previous Track /Fast Backward Button
- 3 - Play/Pause Button
- 4 - Next Track/Fast Forward Button
- 5 - Elapsed playing time /Seek bar
- 6 - List Mode Button
- 7 - System time
- 8 - Bluetooth status
- 9 - Front /Rear Button
- 10 - Playback info
- 11 - Shortcut Button
- 12 - Repeat Button
- 13 - Audio Button
- 14 - Subtitle Button

Operate the Video files Player menu

You can select the button items displayed in the Video files player menu by directly touching it.

Play/Pause Playback

1. Touch [⏸] button to pause during playback.
2. Touch [▶] button again to resume playback.

Switch to Previous/next file

1. Press [⏮] or [⏭] button during playback to play previous /next file

Skip using seek bar

Press the triangle on seek bar and drag it to any position where you want to start playback.

Fast Forward /Fast Backward

1. Press [⏮] or [⏭] button and hold 2 seconds to start fast backward or fast forward during playback. The playback speed starts at 2x, then will increase to 4x, 8x, and 16x. Release the button will continue playback with normal speed.

Note:

*No audio is reproduced during fast forward and fast backward operation.

*The fast forward and fast backward speed may differ depending on the disc.

Repeat Playback

This operation plays back video files recorded on the disc repeatedly.

The repeat set as the factory default is Repeat all.

1. Showing the video files player menu, touch [Repeat] button.
2. Touch [Repeat] button once for Repeat Track, again for Repeat Folder.
3. Press [Repeat] button again for Repeat All.

Switching Audio

Some video files will have two or more audio channels; you can switch among the audio channels during playback.

1. Touch [Audio] button during playback.
 - Each time you touch the button, you can switch among audio languages.
 - It may take time to switch among audios.
- Depending on the disc, switching may be impossible.

Switching Subtitles

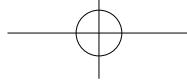
Some video files will have two or more subtitles have been recorded; you can switch among these subtitles during playback.

1. Touch the [Subtitle] button to select a subtitle during playback.
 - Each time you touch the key, you can switch among subtitles.
 - It may take time to switch among subtitles.
- Depending on the disc, switching may be impossible.

Video files list

Showing the Video files player menu; touch the [List] button to display video files list screen.

Video files list operations is almost same as Disc Audio player mode. Please refer to CD Player Operations.



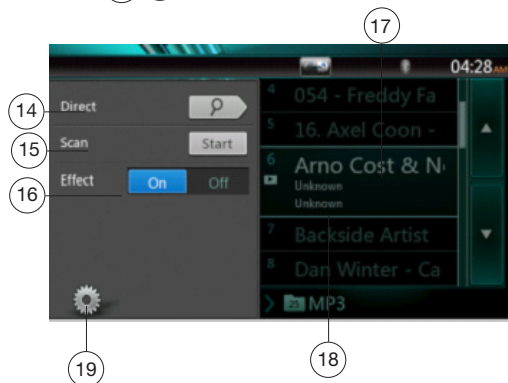
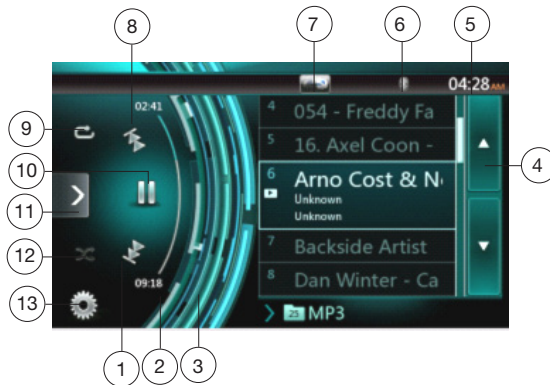
8. CD

Listening to a disc/Ejecting a disc

Please refer to Disc Video Player Operations -watching to a disc and Ejecting a disc.

Showing CD Player mode screen

1. After disc is loaded, the play mode is automatically engaged.
2. If disc have been loaded you can touch **[Disc Audio]** button on main menu to display CD player mode screen.



- 1 - Option Button
- 2 - Elapsed playing time indicator
- 3 - Rotation effect
- 4 - Audio files or CD tracks.
- 5 - System time
- 6 - Bluetooth status
- 7 - Front /Rear Button
- 8 - Repeat Button
- 9 - Previous Track /Fast Backward Button
- 10 - Shortcut Button.
- 11 - Play/Pause Button
- 12 - Next Track/Fast Forward Button
- 13 - Shuffle Button
- 14 - Direct Searching Button
- 15 - Scan Start/Stop Button

- 16 - Rotation Effect On/Off Button
- 17 - Song Title
- 18 - Artist/album Information
- 19 - Close option menu Button

Operate the CD Player menu

You can select the button items displayed in the CD player menu by directly touching it in list.

Play/Pause Playback

1. Touch [] button to pause during playback.
2. Touch [] button again to resume playback.

Switch to Previous/next file or track

Press [] or [] button during playback to play previous /next file.

- Pressing [] button starts playback from the beginning of the next track.
- Pressing [] button starts playback from the beginning of the current track. When this button is pressed again within 2 seconds, playback starts from the beginning of previous track.

Fast Forward /Fast Backward

1. Press [] or [] button and hold more than 2 seconds to start fast backward or fast forward during playback. The playback speed starts at 2x, then will increase to 4x, 8x, and 16x. Release the button will continue playback with normal speed.

Note:

- * No audio is reproduced during fast forward and fast backward operation.
- * The fast forward and fast backward speed may differ depending on the disc.

Repeat Playback

- * The repeat set as the factory default is Repeat All.
- Touch [] button switch between Repeat Folder Repeat All and Repeat Track.

Shuffle Playback


1. Touch [] button to shuffle the tracks during playback.
2. Touch this button again to turn off the feature.

Selecting a track on the Track List Screen

This function allows you to select tracks from a displayed list.





1. Touch the track title on the display list. The selected track will start playing.
2. When the desired track is not displayed, press and flick the track list up or down.
3. Touch the desired track title key. The corresponding track is started playback.

Scanning the Tracks



1. Touch  button to show **[Scan Start]** button.
 2. Touch **[Scan Start]** button during playback.
 - It will play from next track, and each track will display for 10 seconds.
 - The **[Scan Start]** button will switch to **[Scan Stop]** button.
 3. Touch **[Scan Stop]** button.
 - It will continue playback from current track.
 - **[Scan Stop]** button will switch to **[Scan Start]** button.
- * The function will scan all tracks orderly in current folder once. After Scan stopped playback will continue.

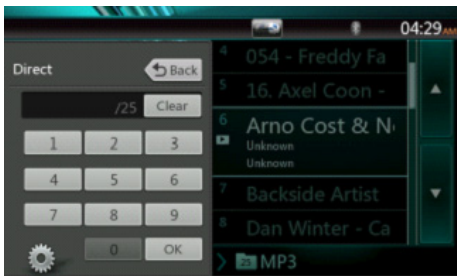
Searching with the Track Number

This operation allows searching using the track numbers recorded on the CDs.

1. Touch  Button to show  button.
2. Touch  button .The numerical keypad will appear on the screen and touch  button.
3. Input the track number that you want to play back with **[0]** to **[9]** key.




Playback starts from the track of the input track number.

- If the input track number does not exist or searching with track number is not allowed, the screen image will not change.
- Touch the  button will close the numerical keypad.
- Touch  Button will close the option window and display playback screen.



Rotation Effect On/Off

This operation allows turn on/turn off rotation effect. The factory default is On.

1. Touch  Button to show **[Rotation effect]** button
2. Press button  will turn on the Rotation effect.
3. Press button  will turn off the Rotation effect.

Listening to compressed audio

This system can play audio files stored on disc. MP3/ WMA/ AAC

Tag display function

This unit is an ID3 Tag compatible model.

This unit supports the ID3 TAGs of the Version 2.4, 2.3, 1.1 and 1.0.

In displaying, this unit gives priority to the Version 2.3 and 2.4 TAGs.

Note:

- Some CDs recorded on CD-R/RW mode may not be usable.

Displaying MP3/WMA/AAC TAG titles

Tag information can be displayed for compressed audio file containing Tag information.

MP3: title, artist, album

WMA: title, artist

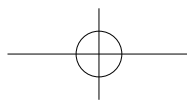
AAC: can not display tag information.

Precautions when creating MP3 disc

- **File extensions**
 1. Always add a file extension “.MP3” or “.mp3” to an MP3 file, and “.WMA” or “.wma” to a WMA and “.m4a” to a AAC file by using single byte letters. If you add a file extension other than specified or forget to add these file extension, the file cannot be played. In addition, if you use upper case and lower case letters (capital and small letters) mixed for file extensions, normal play may not be possible.
 2. Files other than MP3/WMA/AAC data cannot be played. Playing files with a format not supported will be skipped, and the scan, random and repeat playback mode may be canceled.
- **File and Disc Not Supported**

Files and discs with following extensions are not supported: *.AAC, *.DLF, *.M3U, *.PLS, *.MP3 PRO files, files with DRM, open session discs.
- **Logical format (File system)**
 1. When writing an MP3/WMA/AAC file on a disc, please select “ISO9660 level 1 or level 2 (without including expansion format)” as the writing software format. Normal playback may not be possible if the disc is recorded on another format.
 2. The folder name and file name can be displayed as the title during MP3/WMA/AAC play .
- **Entering File and Folder Names**

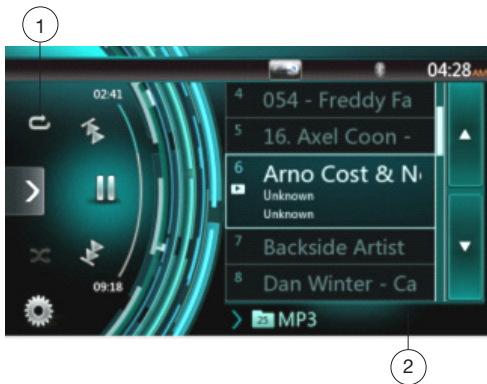
Names using the code list characters are the only file names and folder names that can be entered and displayed. Using any other character will cause the file and folder names to be displayed incorrectly.
- **Folder structure**
 1. A disc with a folder having more than 8 hierarchical levels will conflict with the ISO9660 and playback will be impossible.
- **Number of files or folders**
 1. The maximum allowable number of folders is 200 (including root directory); the maximum allowable number of files is 1500 (max. 200 per folder). This represents the maximum number of tracks that can be played back.




2. Tracks are played in the order that they were recorded onto a disc. (Tracks might not always be played in the order displayed on the PC).

 - Some noise may occur depending on the type of encoder software used while recording.
 - In case of a track recorded at VBR (variable bit rate), the display for the play time of the track may be slightly different from the actual play time. Also, the recommended value of VBR ranges from 32 kbps to 320 kbps.
 - After disc selection, the play mode is automatically engaged.



Playback MP3/WMA/AAC menu



1. Repeat Playback
While playing MP3/WMA/AAC touch  button can switch between Repeat Folder, Repeat All and Repeat Track, Repeat Folder and Repeat All.
2. Current Folder
 - Showing title of current folder.
 - The number on the folder symbol is the number of files and folders number in current folder.
 - Touch the title of current folder, play list will show files and folders in upper folder.

**Other operations about playing MP3/WMA/AAC are almost same as CD Player mode.*

Stop Playback

1. Touch  button to stop playback.
2. Touch  button again to resume playback.
Playback resumes from start of the folder which playing track is in.

•Other operations about playing MP3/WMA/AAC are almost same as CD Player mode.

9. USB Audio Operations

This system can play audio files (MP3/WMA/AAC/FLAC) stored in an USB memory which is recognized as "USB Mass Storage Class device". You can use your USB memory as an audio device by simply copying desired audio files into it.

Note:

- This system will not operate or may operate improperly with some USB memory.
- Files protected with any DRM cannot be played.

Notes on using USB memories

General notes

- When no support files, the file list display nothing.

Notes on the Audio files

- This system can play the MP3/WMA/AAC/FLAC files stored in the USB memory.

MP3 files:

- format: MPEG1/2 Audio layer3
- bit rate: 8k ~ 320kbps
- sampling frequency: 8/12/16/24/32/44.1/48KHz
- file extension: . mp3

WMA files:

- format: Windows media Audio standard L3 profile
- bit rate: 32 ~ 192KHz
- sampling frequency: 32/44.1/48 KHz
- file extension: .wma

AAC files

- format: Advanced Audio Coding LC-AAC,HE-AAC
- sampling frequency: 32/44.1/48 KHz
- file extension: . m4a

FLAC files

- format: Free Lossless Audio Codec
- quantization bit rate: 16 or 24 bits
- sampling frequency: 44.1~192 KHz
- file extension: . flac

Notes on the folder structure

- The folder hierarchy must be within 8 hierarchical levels. Otherwise, playback may be impossible.
- The maximum allowable number of folders is 65535 (including root directory and folders with no MP3/WMA file).
- The maximum allowable number of files in a folder is 65535.
- You can store the MP3 files, WMA files together in a folder.
- The system may become slow if the files or folders exceed the limitation above.

Notes on the Tag titles

The limitations on the Tag titles are same as those in DVD Audio Player mode.

Select USB Audio mode

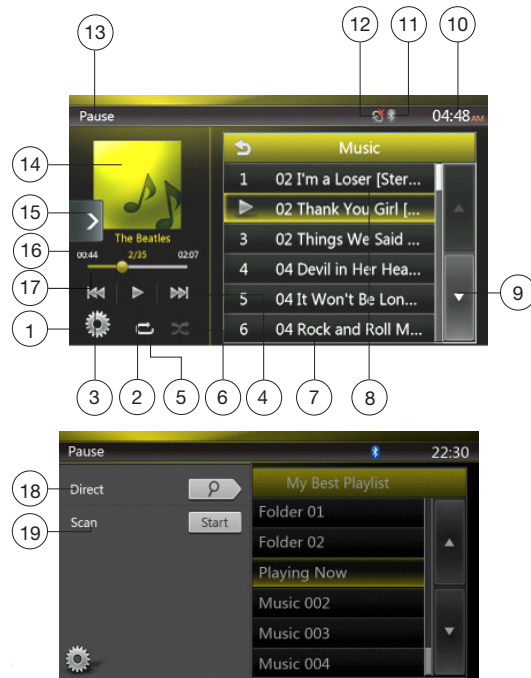
Connect your USB memory with MP3/WMA files to the USB connector. The system will automatically detect the connected device, and the [USB Audio] button on main menu will be enabled.

- When an USB memory is already connected Touch [USB Audio] button to select the USB Audio mode.

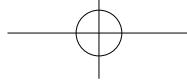
The system changes to the USB Audio mode and starts playback from the previous position or from the beginning.

Note:

If you reconnect the same device that you disconnected last, the system will play back where it left off.



1. Option Button
2. Play/Pause Button
3. Previous Track /Fast Backward Button
4. Next Track/Fast Forward Button
5. Repeat Button
6. Shuffle Button
7. MP3/WMA files in list
8. Folders in list
9. Page Turning



- 10. System time
- 11. Bluetooth status
- 12. Mute status
- 13. Playback status info
- 14. Album Art
- 15. Shortcut Button
- 16. Current ID3 info area
- 17. Elapsed playing time indicator/Seek bar
- 18. Direct Button
- 19. Scan Button

Playing Audio files in USB memory

Play/Pause Playback

1. Touch [⏸] button to pause during playback.
2. Touch [▶] button again to resume playback.

Switch to Previous/next file

Press [⏮] or [⏭] button during playback to play previous /next file.

- Pressing [⏭] button starts playback from the beginning of the next track.
- Pressing [⏮] button starts playback from the beginning of the current track; when this button is pressed again within about 5 seconds, playback starts from the beginning of previous track.

Fast Forward /Fast Backward

Press [⏮] or [⏭] button and hold more than 2 seconds to start fast backward or fast forward during playback. The playback speed starts at 2x, then will increase to 4x, 8x, and 16x .Release the button will continue playback with normal speed.

Note:

*No audio is reproduced during fast forward and fast backward operation.

*The fast forward and fast backward speed may differ depending on the audio files.

Repeat Playback

* The repeat set as the factory default is Repeat All.

Touch the [🔁] button once for Repeat Track, again for Repeat Folder, Repeat All.

Shuffle Playback

1. Touch [🔀] button to shuffle the tracks in playing folder during playback.
2. Touch this button again to turn off the feature.

Album Art work

If current audio file contains album art image in ID3, the picture will be displayed in this area.

ID3 info area

This area display ID3 info of playing file: song title, artist information, album information, number of current file/total number in current folder, elapsed playing time/total time of current file.

Skip use seek bar

Press [🔍] on seek bar and drag it to any position where you want to start playback.

Select a folder on display list

Touch the folder title on the display list, the display list will display files and folders in selected folder.

Selecting a track on the display List

This function allows you to select tracks from a displayed list.

1. Touch the track title on the display list. The selected track will start playing.
2. When the desired track is not displayed, press and flick the track list up or down.
3. Touch the desired track title key. The corresponding track is started playback.

Scanning the Tracks

1. Touch [⚙] Button to show [Scan Start] button.
 2. Touch [Scan Start] button during playback.
 - It will play from next track, and each track will display for 10s seconds.
 - The [Scan Start] button will switch to [Scan Stop] button.
 3. Touch [Scan Stop] button.
 - It will continue playback from current track.
 - [Scan Stop] button will switch to [Scan Start] button.
- * The function will scan all tracks orderly in current folder once .After Scan stopped playback will continue.

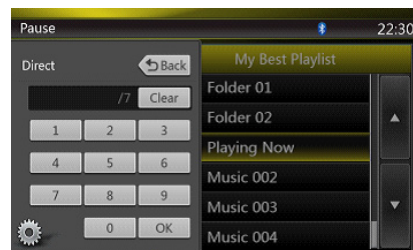
Searching with the Track Number

This operation allows searching using the track numbers in playing folder.

1. Touch [⚙] Button to show [🔍] button.
2. Touch [🔍] button .The numerical keypad will appear on the screen.
3. Input the track number that you want to play back with [0] to [9] key.

Playback starts from the track of the input track number.

- If the input track number does not exist or searching with a track number is not allowed, the screen image will not change.
- Touch [⏪] button will close the numerical keypad.
- Touch [⚙] Button will close the option window and display playback screen.



10. USB Video Operations

This system can play USB video files (MP4, 3GP etc.) stored in an USB memory which is recognized as "USB Mass Storage Class device". You can use your USB memory as an audio device by simply copying desired audio files into it.

Note:

- This system will not operate or may operate improperly with some USB memory.
- Files protected with any DRM cannot be played.

Notes on using USB memories

General notes

When no support files, the file list display nothing.

Notes on the folder structure

The limitations on the folder structure are same as those in USB Audio Player mode.

Notes on the Tag titles

The limitations on the Tag titles are same as those in DVD Audio Player mode.

Select USB Video mode

Connect your USB memory with video files to the USB connector. The system will automatically detect the connected device, and the **[USB Video]** button on main menu will be enabled.

- When an USB memory is already connected

Touch **[USB Video]** button on main menu to select the USB Video mode.

The system changes to the USB Video mode and starts playback from the previous position or from the beginning.

Note: If you reconnect the same device that you disconnected last, the system will play back where it left off.

Playing video files in USB memory

If the video is playing, touch the screen of the playing video to display Operation buttons.

- * The display will return to the playback screen, if you do not touch the screen for 10 seconds.

Playable Video file

*.mp4 files

- format: MPEG4 Visual
MPEG4 AVC (H.264)
- Picture size: 720 x 480 (MPEG4 Visual)
1920 x 1080 (MPEG4 AVC)
- Audio format: AAC
- Audio sampling frequency: 32/44.1/48 KHz

*.m4v files

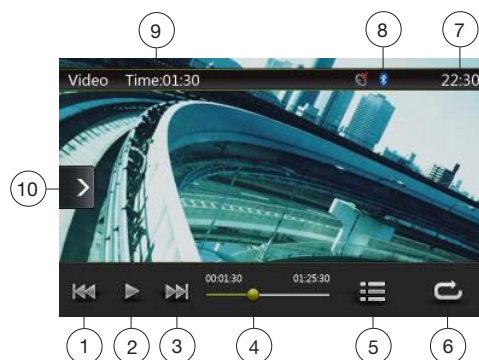
- format: MPEG4 Visual
MPEG4 AVC (H.264)
- Picture size: 720 x 480
- Audio format: AAC
- Audio sampling frequency: 32/44.1/48 KHz

*.mpg files

- format: MPEG2
- Picture size: 720 x 480
- Audio format: MP3
- Audio sampling frequency: 32/44.1/48 KHz

*.3gp files

- format: MPEG4 Visual
H.263
- Audio format: AAC, AMR
- Audio sampling frequency: 8/16/32/44.1/48 KHz



- 1 - Previous Track /Fast Backward Button
- 2 - Play/Pause Button
- 3 - Next Track/Fast Forward Button
- 4 - Elapsed playing time indicator/Seek bar
- 5 - Menu List
- 6 - Repeat Button
- 7 - System time
- 8 - Bluetooth status
- 9 - Playback info
- 10 - Shortcut Button

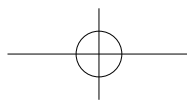
Play/Pause Playback

1. Touch [⏸] button to Pause playback.
2. Touch [▶] button to resume playback.

Switch to Previous/next file

Press [⏮] or [⏭] button during playback to play previous /next file.

- Pressing [⏭] button starts playback from the beginning of the next track.
- Pressing [⏮] button starts playback from the beginning of the current track; when this button is pressed again within about 5 seconds, playback starts from the beginning of previous track.



Repeat Playback

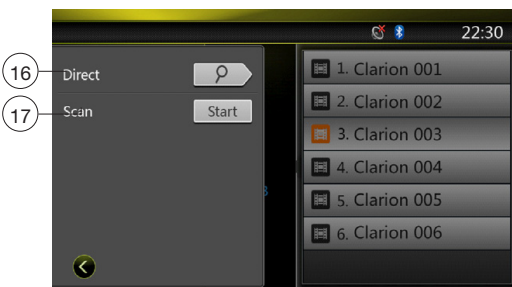
* The repeat set as the factory default is Repeat All.
Touch the [] button once for Repeat Track, again for Repeat Folder, again for Repeat All.

Skip use seek bar

Press the [] on seek bar and drag it to any position where you want to start playback.

Switch to USB Video Menu

Press [] button playback will be paused, and the screen will switch to USB Video List.



- 1 - Option Button
- 2 - Play/Pause Button
- 3 - Previous Track /Fast Backward Button
- 4 - Next Track/Fast Forward Button
- 5 - Repeat Button
- 6 - Shuffle Button
- 7 - Video files in list
- 8 - System time
- 9 - Bluetooth status
- 10 - Mute status
- 11 - Playback status info
- 12 - Album Art
- 13 - Shortcut Button
- 14 - Current ID3 info area
- 15 - Elapsed playing time indicator/Seek bar
- 16 - Direct Button
- 17 - Scan Button

Play/Pause Playback

*On USB Video menu screen, playback status is pause.

Touch [] button to resume playback. The screen will go to video screen automatically.

Switch to Previous/next file

Press [] or [] button during playback to play previous /next file.

- Pressing [] button starts playback from the beginning of the next track.
- Pressing [] button starts playback from the beginning of the current track; when this button is pressed again within about 5 seconds, playback starts from the beginning of previous track.

Repeat Playback

* The repeat set as the factory default is Repeat All.
Touch the [] button once for Repeat Track, again for Repeat Folder, again for Repeat All.

Shuffle Playback

1. Touch [] button to shuffle the tracks in playing folder during playback.
2. Touch this button again to turn off the feature.

Current file info area

This area displays info of current video file: file name, number of current file/total number in current folder, Elapsed playing time/total time of current file.

Skip use seek bar

Press [] on seek bar and drag it to any position where you want to start playback.

Select a folder on display list

This operation is same as this in USB Audio mode.

Selecting a track on the display List

This operation is same as this in USB Audio mode.

Scanning the Tracks

This operation is same as this in USB Audio mode.

Searching with the Track Number

This operation is same as this in USB Audio mode.

11. iPod/iPhone Operations

iPod®/iPhone® can be connected by using the connector cable supplied with the iPod/iPhone, but in this case, you can enjoy its audio sound only. To enjoy video movies stored in the iPod/iPhone with video displaying them on this unit, it is required to use the special connector cable (CCA-748-600) separately sold.

However the new products such as iPhone 5, iPod touch® (5th generation) and iPod nano® (7th generation) only can connect 10-pin cable (no video signal output), so these new products cannot displaying video in video mode.

Note:

- This system will not operate or may operate improperly with unsupported versions.
- For detailed information on the playable iPod/iPhone models, see our home page: www.clarion.com

Notes on using Apple iPod/iPhone

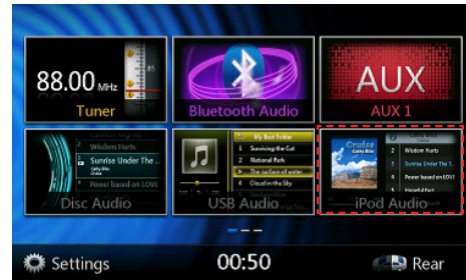
- Do not connect an iPod/iPhone to this unit with a headphone connected to the iPod/iPhone.
- After the iPod/iPhone has been connected to this unit, the buttons of iPod buttons are disabled for operation in the Music mode. In the Video mode, do not operate the buttons of iPod.
- When in the iPod mode, the screen image input from the AUX terminal is output to the rear monitor.
- When no data is present, the title display will remain blank.
- Set the language setting of iPod/iPhone to English before connecting your iPod/iPhone. Some characters of the other languages may not be displayed correctly in this system.

• Precautions on battery consumption:

If the iPod/iPhone is connected to this unit when the internal battery of iPod/iPhone has run down, this function may not operate correctly. You must connect the iPod/iPhone after charging the battery if it has run down.

iPod Audio Menu Operations

Connect your iPod/iPhone to the USB connector. The system will automatically detect the connected device and the iPod Audio button will be enabled for operation on the Main Menu screen.



The playback starts after a while, from where the iPod/iPhone has been paused.

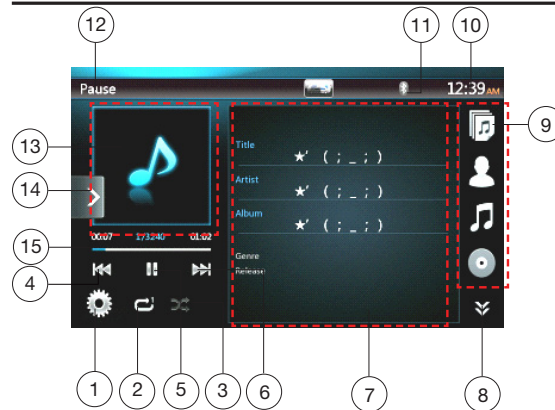
- When iPod/iPhone is already connected



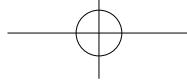
Touch the [iPod Audio] key on the Main Menu screen. The system changes to the iPod mode, and starts playback from the previous position.

Press MENU button on Operational Panel to return to the Main Menu.

iPod Audio ID3 Info



- 1 - Option Button
- 2 - Repeat Button
- 3 - Shuffle Button
- 4 - Previous Track /Fast Backward Button
- 5 - Play/Pause Button
- 6 - Next Track/Fast Forward Button
- 7 - ID3 Information
- 8 - Next Page [] / Previous Page [] Button
- 9 - Category List
- 10 - System Time
- 11 - Bluetooth Status
- 12 - Playback Status
- 13 - Art Work
- 14 - Shortcut Button
- 15 - Progress bar



Play/Pause Playback

1. Touch [] button to pause during playback.
2. Touch [] button again to resume playback.

Switch to Previous/next file

- Press [] or [] button during playback to play previous /next file.
- Pressing [] button starts playback from the beginning of the next track.
- Pressing [] button starts playback from the beginning of the current track; when this button is pressed again within about 3 seconds, playback starts from the beginning of previous track.

Fast Forward /Fast Backward

Press [] or [] button and hold more than 2 seconds to start fast backward or fast forward during playback.

Note:

*No audio is reproduced during fast forward and fast backward operation.

*The fast forward and fast backward speed may differ depending on the audio files.

Repeat Playback

* depend on iPod.

1. Touch the [] button once for Repeat Track, again for Repeat All.

Shuffle Playback

1. Touch [] button to shuffle the tracks in playing folder during playback.
2. Touch this button again to turn off the feature.

Album Art work

If current audio file contains album art image in ID3, the picture will be displayed in this area.

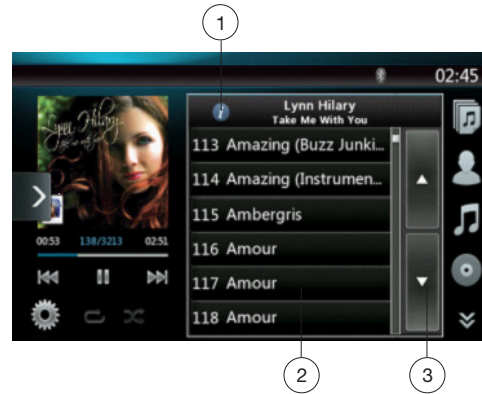
ID3 info area

This area display ID3 info of playing file: song title, artist information, album information (Genre, playlist and release time).

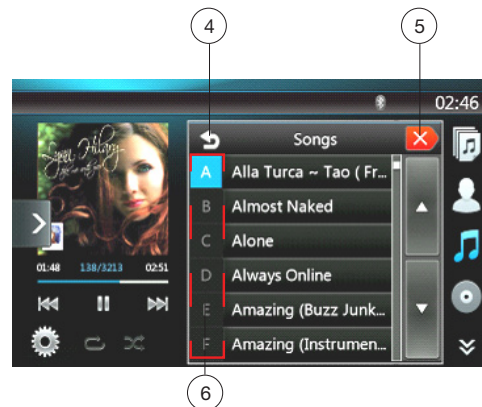
Category List

Select different category songs to play. The category is same as the iPod/iPhone.

iPod audio playlist mode screen



- 1 - Switch to Information Button
- 2 - Playing List
- 3 - Page Turning

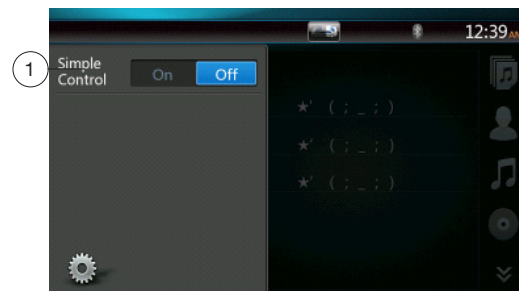


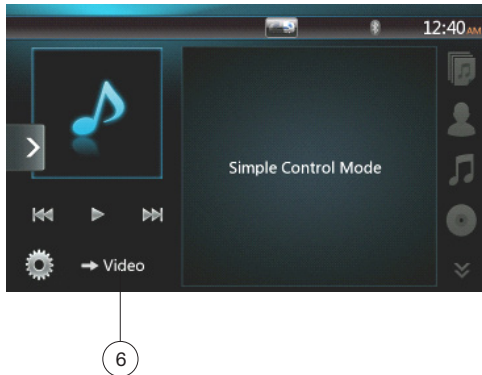
- 4 - Back to father folder
- 5 - Close the list mode
- 6 - Search with the first alphabet in current list

iPod audio List mode screen

- In the ID3 information mode screen, press the ID3 info area to switch the playing list, and in the playing list mode screen, press the button [] can back to the father folder. If the list is in root, press it can close the list.
- Press the button [] can back to the father folder. If the list is in root, press it can close the list.
- Press the button [] to close the List and back to the ID3 information mode.

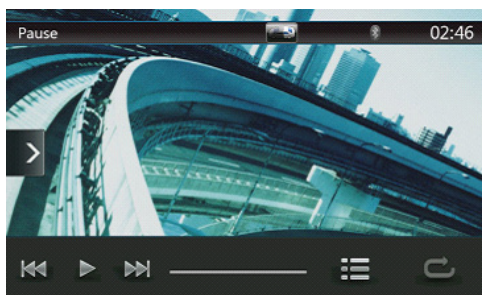
Simple Control Mode





- 1 - Simple Control Button
2 - Video Mode Button

- If the Simple Control is set to [On] in option menu, the screen will become Simple Control Mode. It can also display the video of iPod/iPhone regardless it is iPod Audio or iPod Video mode. But only "Previous Track", "Play/Pause" and "Next Track" can be operated.
- Press [Video] the video will play from iPod.



Skipping a track (Simple Control Mode)

Press the [Previous Track] or [Next Track] button during playback. Tracks are skipped, as many times as the button is pressed, and playback starts.

- Pressing the [Next Track] button starts playback from the beginning of the next track.
- Pressing the [Previous Track] button starts playback from the beginning of the current track.

When this button is pressed again within about 2 seconds, playback starts from the beginning of the previous track.

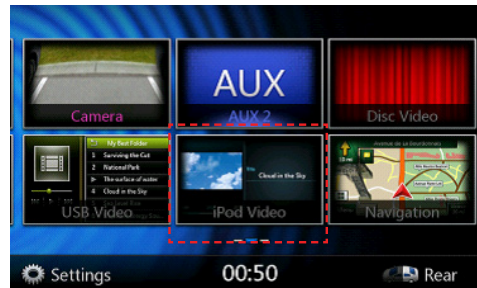
Note: In Simple Control Mode, the best way is to control the iPod just on iPod.

Selecting a list item from a list screen

- (1). Touch the list screen and flick up or down to scroll the list.
- (2). Touch a desired list item on the screen to display the corresponding list of tracks.
- (3). Touch the desired track name on the list to play it.

iPod Video Menu Operations

Connect your iPod/iPhone to the USB connector. The system will automatically detect the connected device and the iPod Video button will be enabled for operation on the Main Menu screen.



- When an iPod/iPhone is already connected



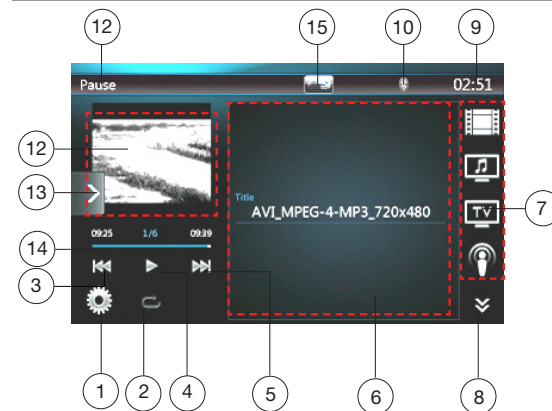
Touch the [iPod Video] key on the Main Menu screen. The system changes to the iPod Video mode, and starts playback from the previous position.

Press MENU button on Operational Panel to return to the Main Menu.

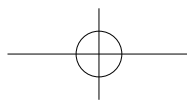
- Viewing video data in the iPod/iPhone (only for the iPod/iPhone with video features)

When you connect an iPod/iPhone with video features by using the optional connector cable for iPod/iPhone with video, you can enjoy the video data and slide show data stored in the iPod/iPhone and show them on the display of this unit (and the rear monitor if connected).

iPod Video ID3 mode screen



- 1 - Option Button
- 2 - Repeat Button
- 3 - Previous Track Button
- 4 - Play/Pause Button
- 5 - Next Track Button
- 6 - Playing File Title
- 7 - Category List
- 8 - Next Page [Down Arrow] / Previous Page [Up Arrow] Button



- 9 - System Time
- 10 - Bluetooth Status
- 11 - Playback Status
- 12 - Art Work
- 13 - Shortcut Button
- 14 - Progress bar
- 15 - Front /Rear Button

Note:

This icon shows only when 2-Zone on. This icon is in some screen pictures and none in other some pictures. It is better to be same setting in a manual. (Also, Navi icon shows owned by setting. (There is no Navi icon screen in this manual))

Play/Pause Playback

1. Touch [] button to pause during playback.
2. Touch [] button again to resume playback.

Switch to Previous/next file

- Press [] or [] button during playback to play previous /next file.
- Pressing [] button starts playback from the beginning of the next track.
- Pressing [] button starts playback from the beginning of the current track.

Repeat Playback

* The repeat set as the factory default is depend on iPod/iPhone.

1. Touch the [] button once for Repeat One, again for Repeat All, again for Repeat Off.

Album Art work

If current audio file contains album art image in ID3, the picture will be displayed in this area.

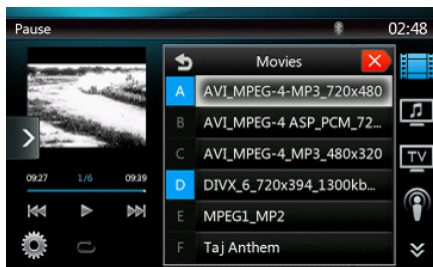
ID3 info area

The area is display the title of the playing file.

Category List

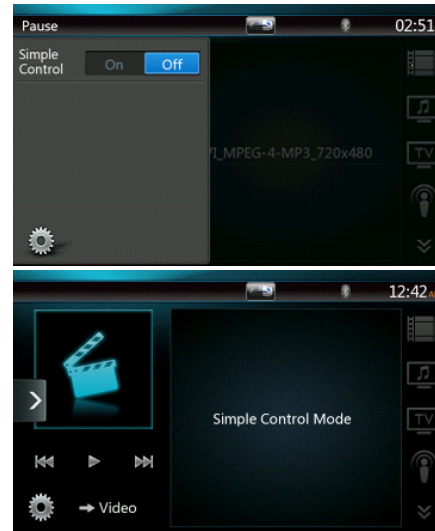
Select different category songs to play. The category is same as the iPod/iPhone.

iPod Video List mode screen



This operation is same as this in iPod Audio mode.

iPod Video Simple Control Mode Screen



This operation is same as this in iPod Audio mode.

iPod Video play mode screen




- 1 - Previous Track /Fast Backward Button
- 2 - Play/Pause Button
- 3 - Next Track/Fast Forward Button
- 4 - Progress bar
- 5 - Menu List Button
- 6 - Repeat Button
- 7 - System time
- 8 - Bluetooth status
- 9 - Playback Info

Play/Pause Playback



1. Touch [] button to pause during playback.
2. Touch [] button again to resume playback.

Switch to Previous/next Track

- Press [] or [] button during playback to play previous /next track.
- Pressing [] button starts playback from the beginning of the next track.

- Pressing  button starts playback from the beginning of the current track; when this button is pressed again within about 5 seconds, playback starts from the beginning of previous track. beginning of the current track.

Fast Forward /Fast Backward


Press  or  button and hold more than 2 seconds to start fast backward or fast forward during playback. The playback speed starts at 2x, then will increase to 4x, 8x, and 16x. Release the button will continue playback with normal speed.

Note:

**No audio is reproduced during fast forward and fast backward operation.*

**The fast forward and fast backward speed may differ depending on the audio files.*

Repeat Playback

* The repeat set as the factory default is Repeat Off.
Touch the  button once for Repeat One, again for Repeat All, again for Repeat Off.

Note:

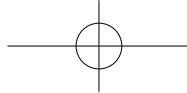
The operation in iPod video mode are as same as iPod Audio mode. Please refer to the iPod Audio Mode operation.

Note:

Video playback is not available on all iPod/ iPhone devices. Please contact your Clarion dealer for details. An optional connection cable or accessory may be required for this feature.

Note:

- "AUDIO ONLY" is displayed when the automobile is moving.
- Image data may not be played back according to the status of the iPod/iPhone
- The volume setting of video data is relatively lower than audio data. Be sure to lower the volume setting before switching to the other mode.
- Do not select the categories with no track registered from the iPod menu screen. The iPod/iPhone may be frozen. If the iPod/iPhone is frozen, reset the iPod/iPhone by following the procedure described in the instruction manual of the iPod/iPhone.
- Audio may be played back slightly out of synchronization with video images.



12. Bluetooth AUDIO PLAYER OPERATIONS

Some Bluetooth cellular phones have audio features, and some portable audio players support the Bluetooth feature. These devices will be called as "Bluetooth audio players" in this manual. This system can play audio data stored in a Bluetooth audio player.

Note:

- This system will not operate or may operate improperly with some Bluetooth audio players.
- For detailed information on the playable Bluetooth audio players, see our home page: www.clarion.com

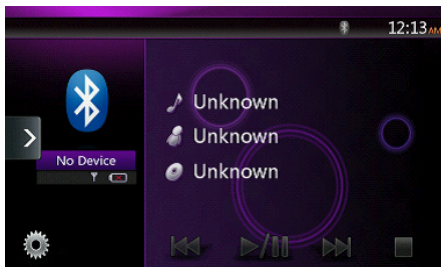
Selecting the Bluetooth Audio mode

1. Touch the [Bluetooth Audio] key to select the Bluetooth Audio mode.

The system changes to the Bluetooth mode. If the connection with a Bluetooth audio player has been already established, you may select the Music function.

2. Press MENU button on Operational Panel to return to the Main Menu.

- When the connection with blue icon a Bluetooth audio player has been established, the icon is displayed at the top of the screen.

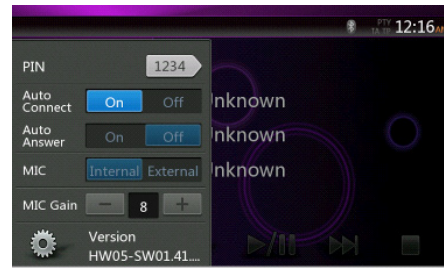


Bluetooth audio player settings

You can confirm various information concerning about the Bluetooth Interface features.

You can confirm various information concerning about the Bluetooth Interface features.

1. Touch the button to display the information on the screen.
2. When you finish confirming the Bluetooth information, touch the button to return to the previous screen.



If you want to change the Pin Code setting of this unit, perform the following steps.

- The factory default setting is "1234".
3. Touch the text box of the Pin Code item to display the Ten-Key Pad screen.
 4. Enter your desired 4-digit PIN number, and then touch the key.

Note:

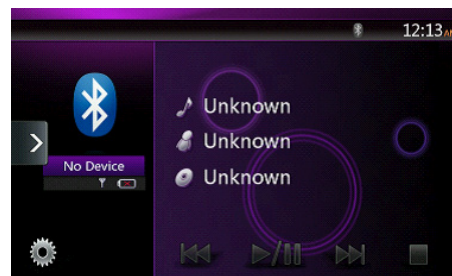
This model is not supported External MIC.

T2 sample is ENABLED. .

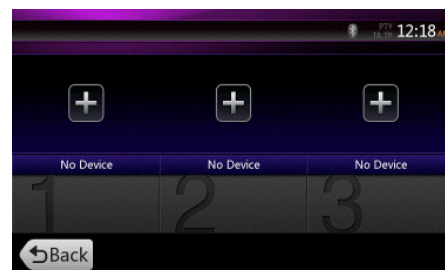
Registering your Bluetooth audio player (Pairing)

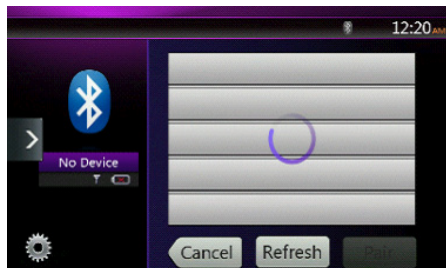
You can register up to 3 Bluetooth audio players.

1. Turn on the power of the Bluetooth audio player you wish to register.
2. Touch the Device key to display the Device Select screen.



3. Touch the button to display the Inquiring Device screen.





4. Touch your desired Device and press button to register for the Bluetooth audio player.
5. If entering the Pass Key code is prompted on your Bluetooth audio player, enter the Pass Key code set to this unit.

When the pairing operation completes, the registered Bluetooth audio player is set as the current device, after selecting the favorite icon, the display return to the device list screen. Press button, the display will return to the Bluetooth audio mode screen.

- **To delete the Bluetooth audio player registration**

1. Touch the button to delete the device. A confirmation screen is displayed.
2. Touch the button to confirm delete.

Selecting the Bluetooth audio player

To change the current Bluetooth audio player to the other device which is already registered, perform the following operation.

1. Touch the Device key to display the Device Select screen.
2. Touch the currently connected device, then press the button to disconnect the active device.
3. Touch the desired Device key you wish to use. Press button to select it as your active device. The corresponding cellular phone is set as current telephone.
4. Touch the button to return to the previous screen.

Controlling the Bluetooth audio player

Note:

- Occasionally, depending on the environment, playback sounds may be fragmented, or switch noises may be generated.

Playing a music

After the connection with a Bluetooth audio player is established, the play mode is automatically engaged.

- When playback is not started for some devices, touch the button manually.

Pausing playback

1. Touch the button during playback.

Playback pauses.

2. To resume playback, touch the key. Playback resumes.

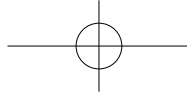
Skipping a track (searching)

3. Press the or button during playback.

Stopping playback

4. Press the button during playback.

Tracks are stopped, press the button to playback the first Track.



13. Bluetooth TELEPHONE OPERATIONS

When the connection with your Bluetooth cellular phone is established, the following functions are available on this unit:

- Listening to your telephone calls on the car speakers.
- Answering to an incoming call.
- Making a call using the Ten-Key pad screen.
- Making a call using the Phone Book data in the selected cellular phone.
- Making a call using the History data of the dialed/received calls.

Note:


- Some cellular phones may not be able to transfer the Phone Book data to head unit.
- The Phone Book data transmission may take a long time. The operations of sending calls are disabled during the data transmission.

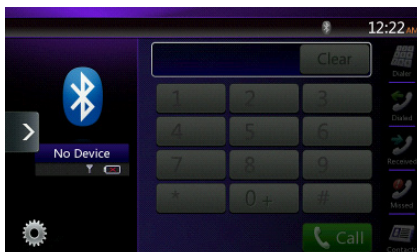
Select the BT Phone mode


1. Touch the [Bluetooth Telephone] key to select the Bluetooth Telephone mode.

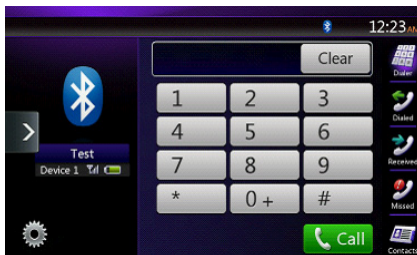
The Telephone screen is displayed.

2. Press MENU button on Operational Panel to return to the Main Menu.

- When no Bluetooth Telephone connected, the icon  is displayed at the top of the screen.





- When the connection with a Bluetooth Telephone has been established, the icon  and signal level indicator are displayed at the top of the screen.




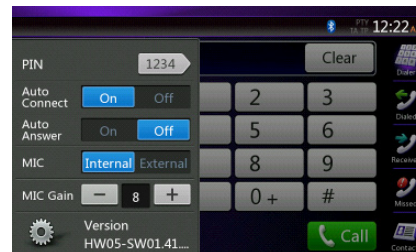
Bluetooth Telephone settings

You can confirm various information concerning about the Bluetooth Interface features.

1. Touch the  button to display the information on the screen.
2. Perform setting for the desired item. See the following sections for detail.
3. When you finish confirming the Bluetooth information, touch the  key to return to the previous screen.



If you want to change the Pass Key setting of this unit, perform the following steps.

1. Touch the text box of the Pass Key item to display the Ten-Key Pad screen.
- The factory default setting is "1234".
2. Enter your desired 4-digit PIN number, and then touch the  button.





Setting Automatic Connection

The system automatically reconnects the cellular phone after the connection is lost or the system is restarted.

- The factory default setting is "OFF". Touch the  or  button of the Automatic Connection item to set the function ON or OFF.

Setting Automatic Answer

If a call comes in, answer automatically after 5 seconds.

- The factory default setting is "OFF". Touch the  or  button of the Automatic Answer item to set the function ON or OFF.

Setting Microphone Gain

You can adjust the input level of the microphone in 16 levels.


- Touch the level indicator button of the Microphone Gain item to adjust the input level.

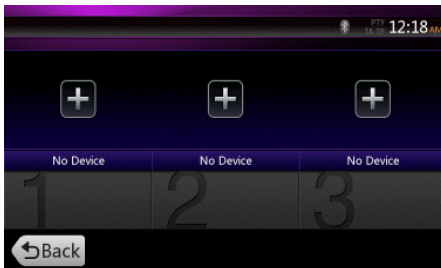
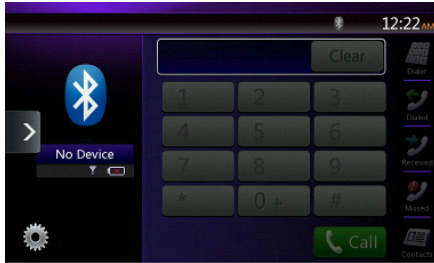
Note:


- The input level of the microphone can be affected by its surroundings. Adjust the level if the person on the other end of the telephone has a reception problem.

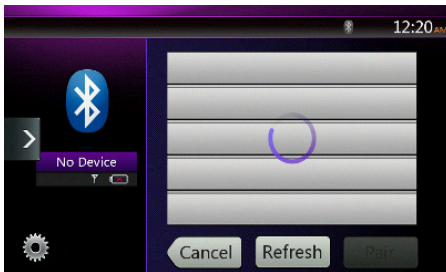
Register your cellular phone (Pairing)


You can register up to 3 cellular phones. The registering method is as same as “Registering your Bluetooth audio player”.

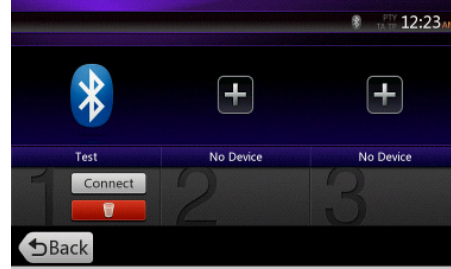
1. Turn on the power of the cellular phone you wish to register.
2. Touch the Device key  to display the Device Select screen.





3. Touch the  key to display the Inquiring Device screen.



4. Touch your desired Cellular key to select the key for the cellular phone to be registered, and press  button to register for the Bluetooth cellular phone.
 - You cannot select the Cellular button of which another cellular phone is already registered. Select a blank Cellular button.
5. If entering the Pass Key code is prompted on your cellular phone, enter the Pass Key code set in this unit.
 - You can change the Pass key setting of this unit from the Bluetooth Info screen under the Telephone Settings screen.







When the pairing operation completes, the registered cellular phone is set as the current telephone, and the display returns to the Telephone screen.

- To delete the cellular phone registration
 1. Touch the  key to delete the device. A confirmation screen is displayed.
 2. Touch the  key to confirm delete.

Select the cellular phone

To change the current cellular phone to the other device which is already registered, perform the following operation.


1. Touch the  key to display the Device Select screen.
2. Touch the currently connected device, then press  key to disconnect the active device.
3. Touch the desired Device key you wish to use. Press  key to select it as your active device. The corresponding cellular phone is set as the current telephone.
 - If the power of the cellular phone is not turned on, turn it on.
 - The cellular phone may prompt to acknowledge the Bluetooth connection or to enter the Pass Key code of this unit. Perform these operations according to the message displayed.
4. Touch the  key to return to the previous screen.

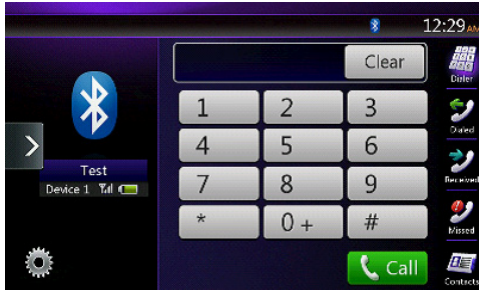
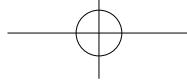
Obtaining the Phone Book data


Sending the Phone Book data from the cellular phone enables you to make a call using the Phone Book function from this unit.

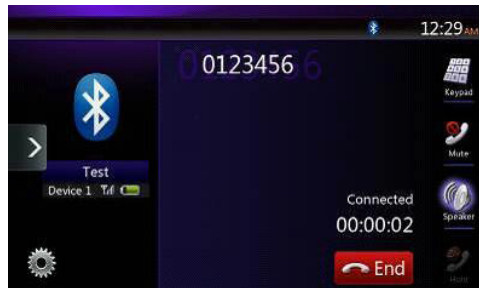
Telephone operations





Making a call using the Ten-Key pad

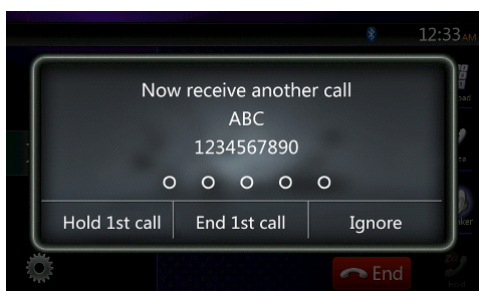
1. Touch the  key to display the Ten-Key pad screen.
2. Enter the telephone number by using the Ten-Key pad displayed on the screen.




3. Touch the  (Send) key to call the entered number.
 - The following Telephone Interrupt screen is displayed during phone call.



- Touch the  key to talk by using the cellular phone and canceling the hands-free function (Private Mode). To return to the hands-free mode, touch the  key again.
- Touch the  key to mute the microphone. Now you can hear the other side, but the other side cannot hear your side.
- Touch the  key to hold the current phone call, now you can answer to the other incoming call. Touch again to talk with previous call. If during a call with a third-party call, you can keep the current call to answer a third party or hang up the current call to answer a third party. You can also ignore the third-party calls.



4. When the call is finished, touch  key to hang up.

Note:




- Depending on some special cellular phone, the Telephone Interrupt screen may be closed and the connection with this system may be disconnected when entering the Private mode.

Making a call using the Phone Book

You can use the Phone Book data obtained from the cellular phone to make a call from this unit.




Note:

- Before using this function, the Phone Book data must be sent from the cellular phone.
- Only the Phone Book items with at least one telephone number registered in the captured Phone Book data are displayed on the Phone Book screen.

1. Touch the  key to display the Phone Book screen.
2. Touch the desired Name key you wish to dial.
 - Flick the list up and down to scroll the list.
3. Touch the  key to call the specified number. The Telephone Interrupt screen is displayed, and calling starts.
- When the call is finished, touch the  key to hang up.

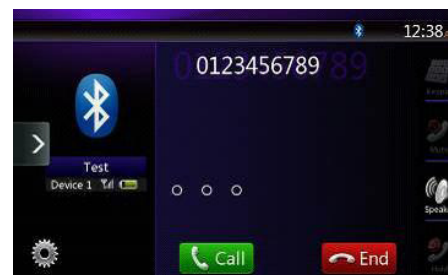
Making a call using the History

The system will memorize the Dialed/Received calls record data in the memory. You can confirm it and use it to make a call from this unit.



1. Touch the  key. The History List screen is displayed.
- The items are sorted by Dialed, Missed and Received calls.
- Flick the list up and down to scroll the list.
2. Touch the desired History item key you wish to dial.
3. Touch the  key to call the specified number. The Telephone Interrupt screen is displayed, and calling starts.
- When the call is finished, touch the  key to hang up.

Answering to an incoming call

When a call comes in, the following Telephone Interrupt screen appears.



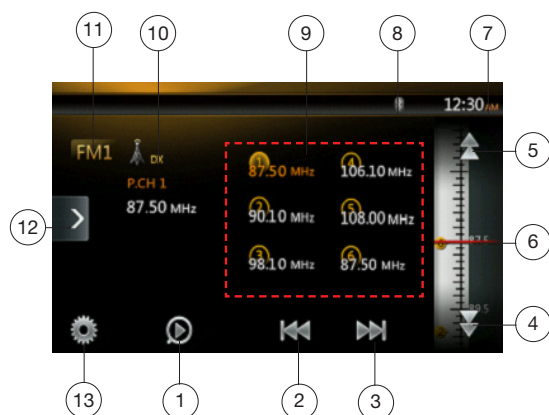
You can answer to the incoming call on this system by the following operation.

1. Touch the  key to answer the call.
2. When the call is finished, touch the  key to hang up.

14. Tuner Operations

Listening to the Tuner

1. Touch the Tuner button on the Main menu display. The tuner mode screen is displayed.
2. Press the [FM1/2/3/AM] button to select the radio band. Each time the button is pressed, the radio reception band changes in the following order: FM1->FM2->FM3->AM -> FM1...



1. Preset Scan Button
2. Seek Down
3. Seek Up
4. Step Down
5. Step Up
6. Frequencies Display
7. System time
8. Bluetooth status
9. Preset List
10. DX/Local Display
11. Band Button
12. Shortcut Button
13. Option Button

Seek Tuning

1. Press the [FM1/2/3/AM] button to select the radio band (FM or AM).
2. Touch the [◀] or [▶] button
 - When Press the [▶] button, the station is searched in the direction of higher frequency.
 - When Press the [◀] button, the station is searched in the direction of lower frequency.

Step Tuning

1. Press the [FM1/2/3/AM] button to select the radio band (FM or AM).
2. Touch the [▲] or [▼] button in frequency menu to tune up or down by one step.

Recalling a preset station

1. Press the [FM1/2/3/AM] button to select the desired band (FM or AM) on the tuner.

2. Press the preset station (1 to 6) on Preset List.

Manual memory

1. Touch the desired Band key to select the band you wish to store.
2. Tune to a station you want to store using the seek tuning, step tuning, or preset tuning.
3. Touch and hold the desired Preset key you want to store for about 3 seconds.

Auto Store

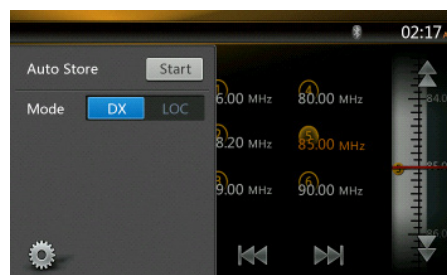
The Auto Store is a function for storing up to 6 stations that are automatically searched in sequentially. If the number of receivable stations cannot reach to 6, the previous stored station remains.

1. Touch the [FM1/2/3/AM] button to select the desired band. (FM or AM)
2. Press the [🔍] button, and then press the [Start] button to start the Auto Store.

A beep sounds and the stations with good reception are stored automatically to the preset list.

Notes:

1. After auto store, the previous stored stations will be overwritten.
2. The unit has 4 bands, but FM3 and AM can store by AS function.



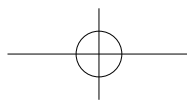
Preset Scan



The Preset Scan receives the stations stored in the preset memory in order. This function is useful when searching for the desired station in memory.

1. Touch the [FM1/2/3/AM] Button to select the desired band. (FM or AM)
2. Touch the [🔍] button to start the Preset Scan. The unit starts scanning each station for 10 seconds sequentially. But the station stored is not a valid station; the scanning time is only 2 seconds.
3. When the desired station is tuned in, touch the [🔍] button again to stay in that station.

DX/Local Setting

The DX / Local setting changes the tuner sensitivity in order to separate closely spaced stations. This feature is useful in areas that have many radio stations in close proximity.



1. Touch the  button to switch to local tuner sensitivity.
2. Touch the  button to switch to DX tuner sensitivity.

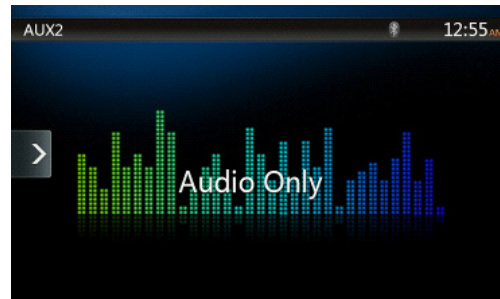
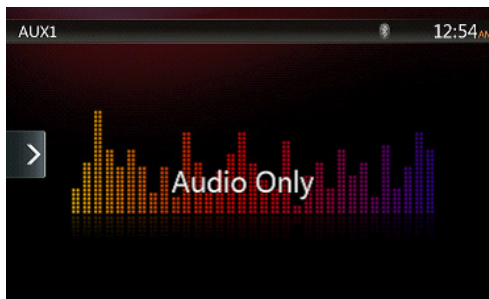
15. AUX

External peripheral devices, including a game console, camcorder, navigation unit, iPod/iPhone, etc. can be connected to the AUX connector on the front or back of this unit using the AVV media cables.

Switching to AUX IN

Press [AUX1] / [AUX2] button on Main Menu to select desired mode (when unit is reading). If the external device connected to AUX input have audio signal, the unit will broadcast audio of external device. Press Menu button on Operational Panel to return to the Main Menu.

You cannot directly control external devices connected to AUX input.



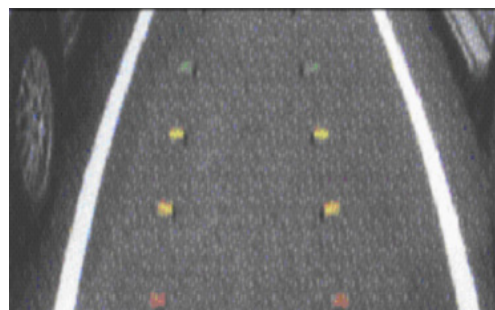
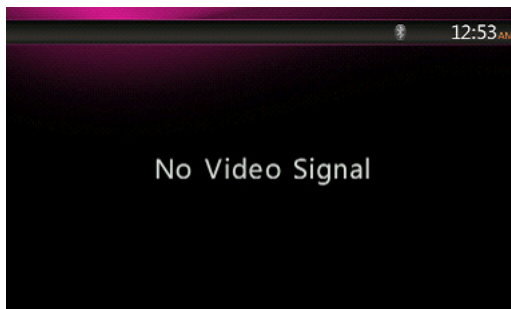
16. Camera In Operations

Switching to Camera mode

Press [Camera] button on Main Menu to select desired mode.

The LCD will display the external camera video. The screen will display “No Video Signal” message, if a valid camera is not connect to this head unit.

Press MENU button on Operational Panel to return to the Main Menu.



Note:

If the reverse cable is connected correctly to the car, the head unit to go to camera mode automatically when the car is in reverses.

17. Rear Source Operations

If a monitor is installed in the rear zone and connected to the rear zone AV output, passengers in the back seat can watch the DVD/iPod Video/AUX1/ AUX2 video separately from front source.




1 2

1. Press the button to access the front source.
2. Press the button to close the rear source.

Multi-Zone Operation

Independent sources can be played simultaneously on the unit. For example, a FM/AM console can be playback on the front screen while DVD video is available to rear passengers. But now can't select DVD video in front.


Access Rear-Zone

1. Touch the Rear button  on Main Menu to access the Rear Source.
2. Select a source to play.

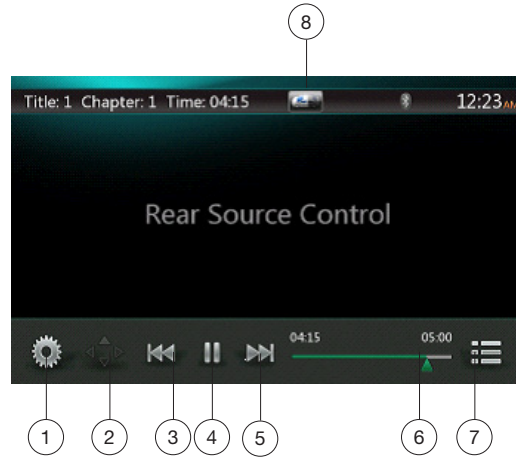
Exit Rear-Zone










1. Touch the 2-Zone off  button to close the Rear Source.

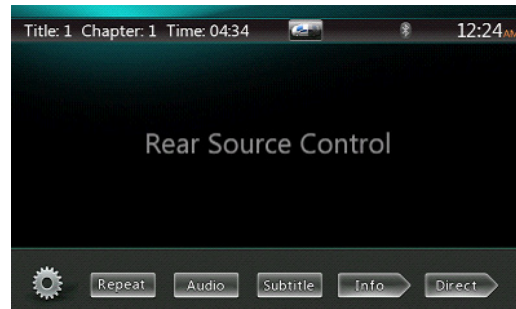
NOTE:

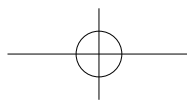
1. If the source is selected as the front, the source in rear can't be selected.
2. If the source is selected as the rear, the source in front can't be selected.
3. Press the Front Button  to access the main menu but not close the Rear Source.

DVD Video in Rear



1. : Option Button
Press the button can display the hidden button.
2. : Show Cursor keys Button
3. : Previous Track /Fast Backward Button.
4. : Play/Pause Button
5. : Next Track/Fast Forward Button
6. Elapsed playing time.
7. : Menu List Button
8. : Front/Rear button
If the screen displays Rear Source, press  to switch to Front Source.
If the screen displays Front Source, Press  to switch to Rear Source.



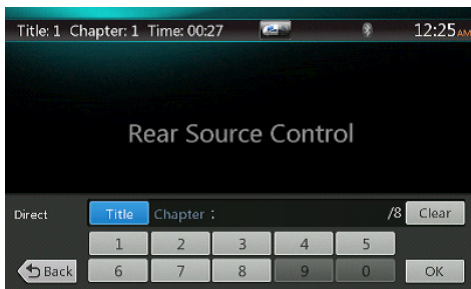


DVD Video Rear Source Control Info mode.



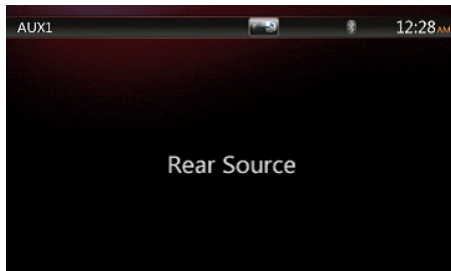
Press button to return.

DVD Video Rear Source Control Direct mode.

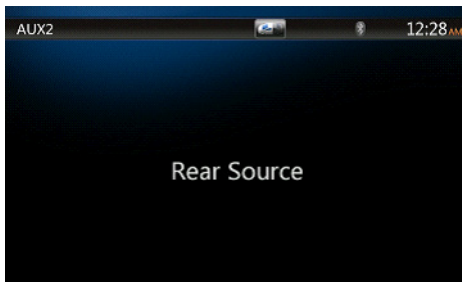


Note: More detail please refer to DVD Video Front source.

AUX1

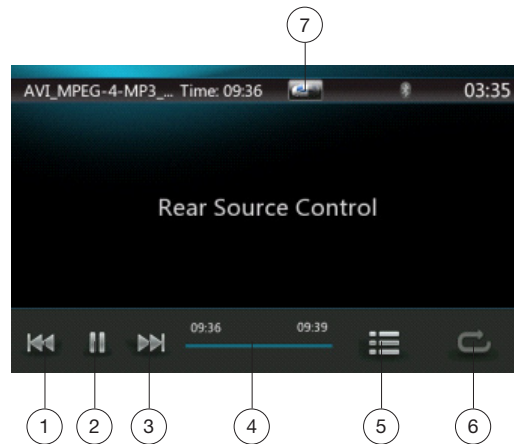


AUX2



iPod Video in Rear

iPod Video Rear Source Control Play Mode

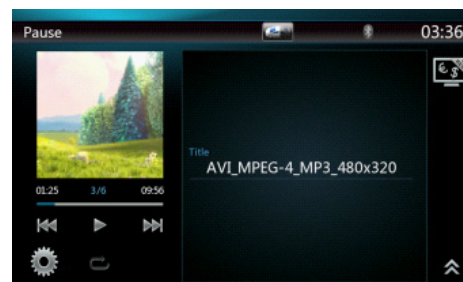
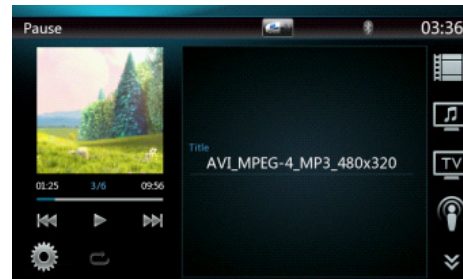


- : Previous Track /Fast Backward Button
- : Play/Pause Button
- : Next Track/Fast Forward Button
- Progress bar
- : Menu List Button
- : Repeat Button
- : Front/Rear button

If the screen displays Rear Source, press to switch to Front Source.

If the screen displays Front Source, Press to switch to Rear Source.

iPod Video Rear Source ID3 Mode




Note:

If the source is selected as the front, the source in rear can't be selected.

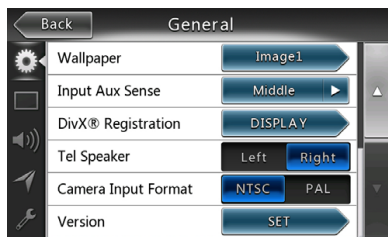
If the source is selected as the rear, the source in front can't be selected.

Press the Front Button  to access the front main menu but the rear source will keep running.

18. Setting Operation


Press  button on the Main menu screen. The Setting menu screen will be displayed.


General Setup Menu

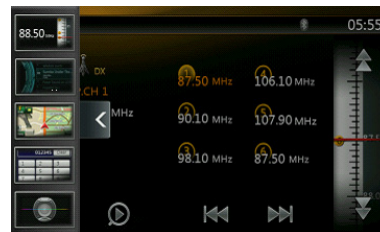


System Language: Set the Language for system screen.

Shortcut Menu: Set the shortcut mode from all of the modes.

In the any modes, press the button , the shortcut menu will display from left screen.

Press the button , the shortcut menu will be hidden.



Time: Set system clock.

24-Hour Format: Set the time display mode.

Beep: Turn on or turn off the beep confirmation sound.

Bluetooth: Set the Bluetooth ON or OFF.

Wallpaper: Choose the desired wallpaper.



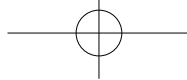
Input Aux Sense: Auxin input switch, including Low, Mid, High.

Tel Speaker: There are two options, Left and Right. For example, if current setting is Right, when BT phone is coming in, only left speaker can hear the phone.

DivX® Registration: Display the information about DivX® registration.

Camera Input Format: There are two options, NTSC and PAL.

Version: Display the software version information.



Note:

• Time and 24-Hour Format can be adjusted when set the system time not to be synchronized with GPS local time.

Video Setup Menu



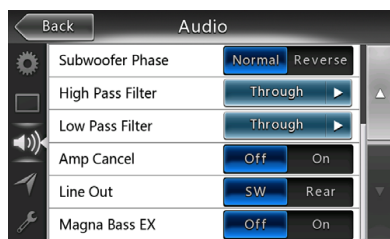
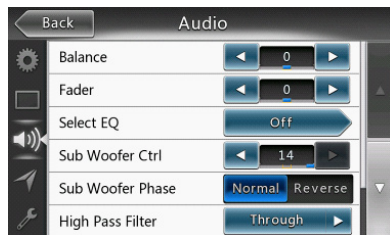
This menu includes: DVD Wide Screen Mode; Brightness. Dimmer Mode

DVD Wide Screen Mode: Set the DVD wide screen mode on or off.

Dimmer: Set brightness value from 0 to 20.

Dimmer Mode: There are three options, Day, Night and Auto.

Audio Setup Menu



This menu includes: Balance, Fader, Beat EQ, Sub Woofer Ctrl, Sub Woofer Phase, High Pass Filter Low Pass Filter, Amp Cancel Line Out and Magna Bass EX.

Balance: Choose the desired volume for left and right speaker.

Fader: Choose the desired volume for front and rear speaker.

Beat EQ: Choose the desired mode: Bass Boost, Impact, Excite, Custom and OFF.

Sub Woofer Ctrl: Choose the desired sub woofer gain from 0 to 14.

Sub Woofer Phase: Choose the sub woofer phase normal or reverse.

High Pass Filter: Choose the frequency about the high pass filter or enable. The frequencies include 62Hz, 95Hz and 135Hz.

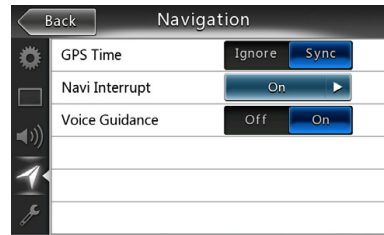
Low Pass Filter: Choose the frequency about the low pass filter or enable. The frequencies include 60Hz, 90Hz and 120Hz.

Amp Cancel: Choose the amp Cancel on or off.

Line out: Set the line out to subwoofer or rear.

Magna Bass EX: Choose the loudness on or off.

Navigation Setup Menu



This menu includes: GPS Time, Navi Interrupt, Voice Guidance and Voice Guidance Mix.

GPS Time: Set the system time to be synchronized with GPS local time or not.

Navi Interrupt: There are three choose: On/Popup/Off. "On": The navigation screen will cover to AV screen when reaching some key point. "Popup": When small turn info window will pop up in the top of the AV screen to indicate the key point. "Off": Turn off this function.

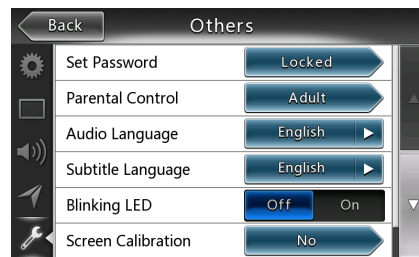
Voice Guidance: There are three choose: On/Mute/Off. "On":

ON:Interrupt function of voice guidance is on. While interrupting no attenuate function of AV sound.

MUTE:Interrupt function of voice guidance is on. While interrupting attenuate function sound is on.

Off:disable the navigation voice guidance.

Others Setup Menu

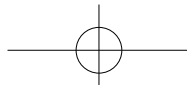
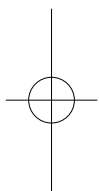
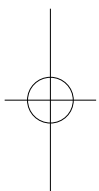


This menu include: Set Password; Parental Control; Audio Language; Subtitle Language; Screen Calibration and Factory Default.

Set password: Set the password for DVD parental control.

Parental control: Set the rating of the age. It contains Kid Safe/G/PG/PG- 13/PG-R/R/NC- 17/Adult.

Audio Language: Set the Language for DVD Audio.




Subtitle Language: Set the Language for DVD subtitle.

Blinking LED: Set blinking LED on or off.

Screen Calibrate: The function of it is to select the TS Calibrate YES or NO.


Factory Default: The function is to select to load factory default or not.

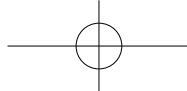
Set the Anti-Theft code

1. If your unit is unlocked, hold the  button more than 2 seconds, then the Anti-Theft setting mode will display. Users can change anti-theft code.

Touch [Yes], the numerical keypad is displayed. Enter the new password twice, then anti-theft code is set and your unit is secured.

When the Anti-theft is "On", you need enter correct Anti-theft code to turn the unit on. If you enter wrong code three times, the unit is locked, and must be unlocked by the professionals.

2. If your unit is secured, hold the  button more than 2 seconds, then the Anti-Theft setting mode will display. The numerical keypad is displayed, enter the right code to unlock.



19. TROUBLESHOOTING

GENERAL

Problem	Cause	Measure
Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase.
	Incorrect wiring.	Consult your installation center.
Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Press the reset button with a thin rod. Note: <i>When the Reset button is pressed, turn off the ACC power.</i> * When the Reset button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.
The remote control unit does not work.	Direct rays of the sun fall on the light-receptive part of the remote control unit.	When direct rays of the sun fall on the light-receptive part of the remote control unit, it may not work.
	The battery of the remote control unit is dead or there is no battery in the remote control unit.	Check the battery of the remote control unit.

DVD PLAYER

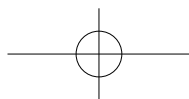
Problem	Cause	Measure
Disc cannot be loaded.	A disc is already loaded.	Eject the disc before loading the new one.
	There is foreign matter already in the disc slot.	Remove the foreign matter, or consult a service station.
Sound skips or is noisy.	Disc is dirty.	Clean the disc with a soft cloth.
	Disc is heavily scratched or warped.	Replace with a disc in good condition.
Sound is bad directly after power is turned on.	Condensation may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with the power on.
Video images are not displayed.	The parking brake is not engaged.	Check that the parking brake is engaged.
Disc cannot play with the display "PARENTAL VIOLATION" shown.	Feature exceeds set parental level.	Release the view limitation or change the parental level. See the subsection "Setting up the parental level"

USB DEVICE

Problem	Cause	Measure
USB device cannot be inserted.	The USB device has been inserted with wrong direction.	Reversing the connection direction of the USB device, try it again.
	The USB connector is broken.	Replace with a new USB device.
USB device is not recognized.	The USB device is damaged.	Disconnect the USB device and reconnect. If the device is still not recognized, try replacing with a different USB device.
	Connectors are loose.	
No sound heard with the display "NO FILE" shown.	No MP3/WMA file is stored in the USB device.	Store these files properly in the USB device.
Sound skips or is noisy.	MP3/WMA files are not encoded properly.	Use MP3/WMA files encoded properly.
The video image of iPod/iPhone is disturbed.	The TV Signal setting of the iPod/iPhone is not set correctly.	Set the TV Signal setting (NTSC/PAL) of the iPod/iPhone correctly.

Bluetooth

Problem	Cause	Measure
Cannot pair the Bluetooth enable device with the car audio system.	The device does not support the profiles required for the system.	Use another device to connect.
	The Bluetooth function of the device is not enabled.	Refer to the user manual of the device for how to enable the function.
The audio quality is poor after connection with a Bluetooth enabled device.	The microphone is not correctly positioned.	Use optional external microphone and adjust the position of it.
	The Bluetooth reception is poor.	Move the device closer to the car audio system or remove any obstacle between the device and the system.



TV/VTR (When connecting an optional TV tuner, etc.)

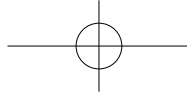
Problem	Cause	Measure
The image is not displayed.	The parking brake is not engaged.	Check that the parking brake is engaged.
The display is dark.	The brightness control is too low.	Adjust the brightness properly.
	The operating condition is not good.	The temperature inside the vehicle may be 0°C or lower. Set to an appropriate temperature (25°C or so) and check it again.
	The headlight of the vehicle is lit	The display is made dark at night to prevent the glare (When the headlight of the vehicle is lit in the daytime, the display gets dark).
When the VTR is connected, the image is disturbed.	Improper NTSC/PAL setting	Set the AUTO/PAL/NTSC properly according to the VTR.
There are red, green, and blue points in display.	-----	This is not a failure, but a phenomenon peculiar to a liquid crystal panel (The liquid crystal panel is produced according to technology with very high precision. Note that, though there are effective pixels of 99.99% or more, pixel missing or normally lit pixels account for 0.01%).

20. ERROR DISPLAY

If an error occurs, one of the following displays is displayed.
Take the measures described below to solve the problem.

DVD PLAYER

Display	Cause	Measure
BAD DISC	A disc is caught inside the DVD deck and is not ejected.	This is a failure of DVD deck's mechanism and consult your store of purchase.
BAD DISC	A disc cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
BAD DISC	A disc is loaded upside- down inside the DVD deck and does not play.	Eject the disc then reload it properly.
PARENTAL VIOLATION	Parental level error	Set the correct Parental level.
Disc Region incorrect	Region code error	Eject the disc, and replace correct region code disc.



21. SPECIFICATIONS

FM Tuner

Frequency Range: 87.5 MHz to 108.0 MHz

Usable Sensitivity: 8 dB μ V

50dB Quieting Sensitivity: 14 dB μ V

Alternate Channel Selectivity: 70 dB

Stereo Separation: 25 dB (1 kHz)

Frequency Response: 30 Hz to 14 kHz

Bluetooth

Specification: Bluetooth Ver 2.1+EDR

Profile: HFP1.5(Hands Free Profile)

HSP1.0 (Headset Profile)

A2DP (Advanced Audio Distribution Profile)

AVRCP1.2,1.3,1.4 (AV Remote Control Profile)

Power Class: 2

AM Tuner

Frequency Range: 531 kHz to 1,629 kHz

Usable Sensitivity: 30 dB μ V

WMA mode

Bit rate: 64 kbps to 192 kbps

Sampling rate: 32 kHz, 44.1 kHz, 48 kHz

DVD Player System

Digital Versatile Disc System with CDDA capable

Usable discs:

DVD video disc, Compact disc

Frequency Response: 20 Hz to 20 kHz

Sound/Noise Ratio: 95 dB(A (1 W Ref)

Dynamic Range: 95 dB (1 kHz)

Distortion: 0.05%

Video system: NTSC/PAL

MP3 mode

Bit rate: 32 kbps to 320 kbps

Sampling rate: 32 kHz, 44.1 kHz, 48 kHz

USB

Specification: USB 1.1/2.0 (FS)

Playable audio format:

MP3(.mp3): MPEG 2/Audio Layer-3

WMA(.wma): Ver 7/8/9.1/9.2

Audio/Video Input

Audio input voltage: $\leq 2 V_{rms}$

Video input voltage: $1.0 V_{p-p} @ 75\Omega$

Audio input sensitivity (at 2 V output)

High: 325 mV $_{rms}$

Mid: 650 mV $_{rms}$

Low: 1.3 V $_{rms}$

Playable Video Format

Disc Video: .mp4 (MPEG4/AAC) 720*480

.avi (MPEG4/MP3) 720*480

.mpg (MPEG2/MP3) 720*480

USB Video: .mp4 (MPEG4/AAC) 480*272

.mp4 (H.264/AAC) 480*272

.3gp (MPEG4/AAC) 480*272

.avi (MPEG4/MP3) 480*272

.mpg (MPEG2/MP3) 480*272

Audio/Video output

Video output voltage: $1.0 V_{p-p} @ 75\Omega$

Screen Size: 6.2" wide type

Pixels: 1,152,000

Resolution: 800 x 480 x 3 (RGB)

General

Power source voltage:

14.4 VDC (10.8 to 15.6 V allowable)

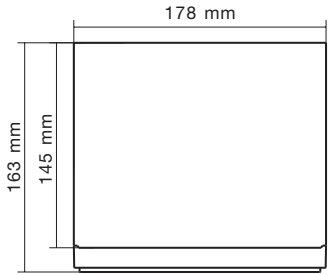
Ground: Negative

Current consumption: 4.0 A @1 W

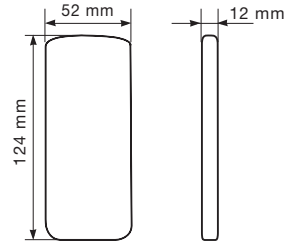
Auto Antenna Rated Current: 500 mA less

Note:

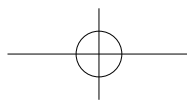
- Specifications comply with JEITA Standards.
- Specifications and design are subject to change without notice for further improvement.



NX403A dimensions:
NX403A weight: 2.4 kg



Remote Control dimensions:
Remote Control weight:
50g (including battery)

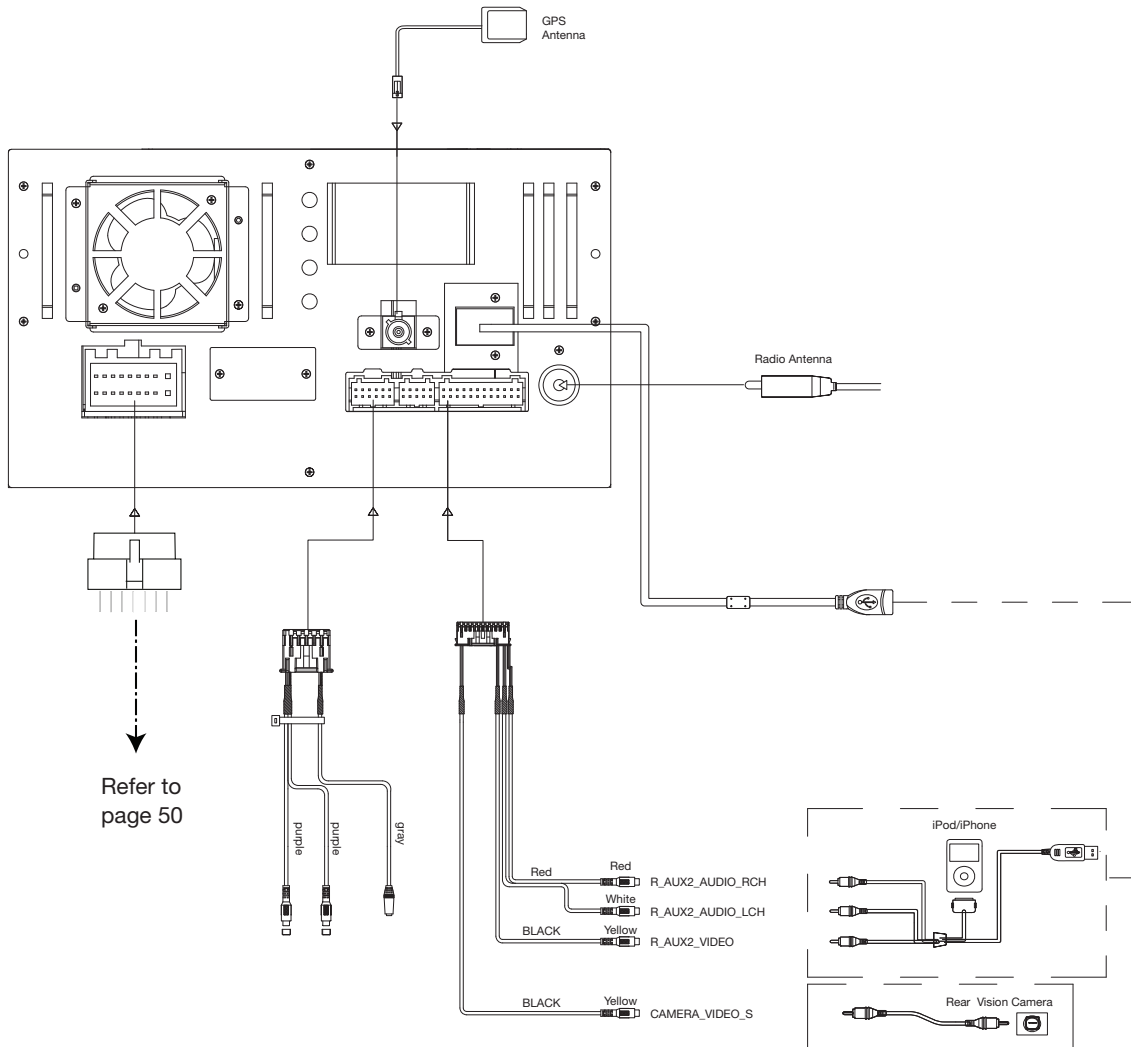


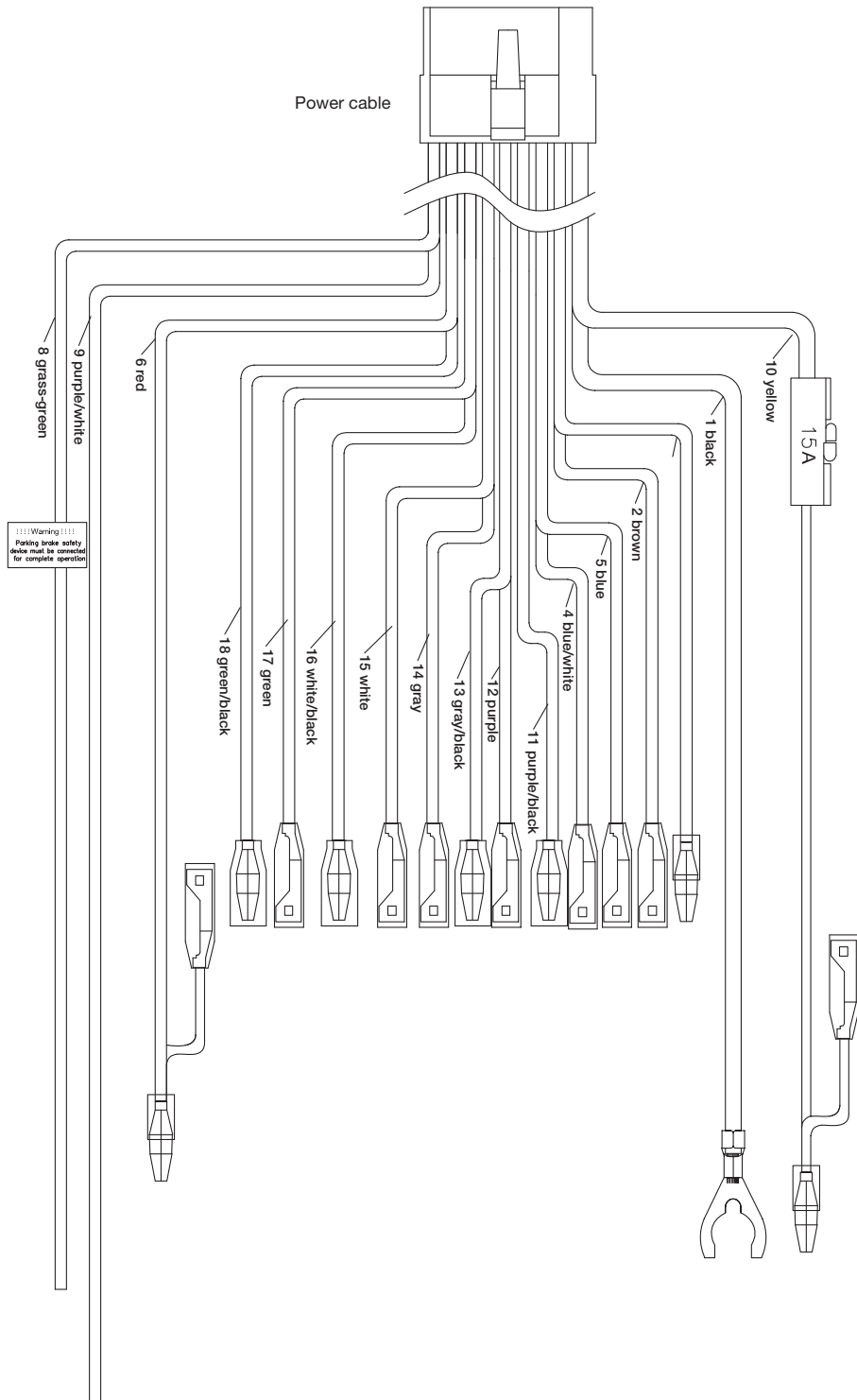
22. WIRE CONNECTION GUIDE

Note:

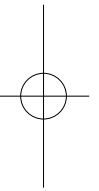
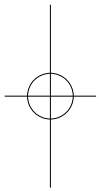
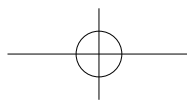
- Before installing, be sure to disconnect the negative cable of the car battery.
- In the optional devices, the RCA cables and the Connector cables are separately-sold items.

NX403A





Note:
*1: Connecting the PHONE INTERRUPT terminal
The phone interrupt will mute the audio if the lead receives a negative or ground signal.



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