clarion®

Owner's manual & Installation manual
Mode d'emploi et manuel d'installation
Manual de instrucciones y de instalación

NX409
NZ409

**2-DIN DVD MULTIMEDIA STATION
WITH BUILT-IN NAVIGATION
& 6.5" TOUCH PANEL CONTROL**

**DVD MULTIMEDIA STATION
WITH BUILT-IN NAVIGATION
& 7" TOUCH PANEL CONTROL**

**STATION MULTIMÉDIA DVD 2-DIN
AVEC NAVIGATION INTÉGRÉE
ET ÉCRAN TACTILE DE 6,5 POUCES**

**STATION MULTIMÉDIA DVD
AVEC NAVIGATION INTÉGRÉE
ET ÉCRAN TACTILE DE 7 POUCES**

**ESTACIÓN DVD MULTIMEDIA DOBLE DIN
CON SISTEMA DE NAVEGACIÓN
INCORPORADO Y PANTALLA TÁCTIL DE 6,5"**

**ESTACIÓN DVD MULTIMEDIA
CON SISTEMA DE NAVEGACIÓN
INCORPORADO Y PANTALLA TÁCTIL DE 7"**

CLARION PRODUCT REGISTRATION INFORMATION

For USA and Canada only

www.clarion.com

Dear Customer:

Congratulations on your purchase of a Clarion mobile electronic product. We are confident that you'll enjoy your Clarion experience.

There are many benefits to registering your product. We invite you to visit our website at www.clarion.com to register your Clarion product.

We have made product registration simple with our easy to use website. The registration form is short and easy to complete. Once you're registered, we can keep you informed of important product information.
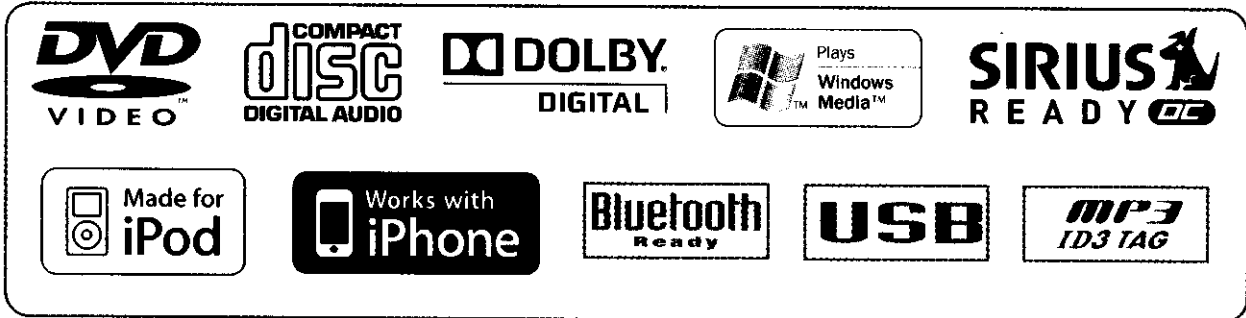
Register at **www.clarion.com** - it's easy to keep your Clarion product up to date.
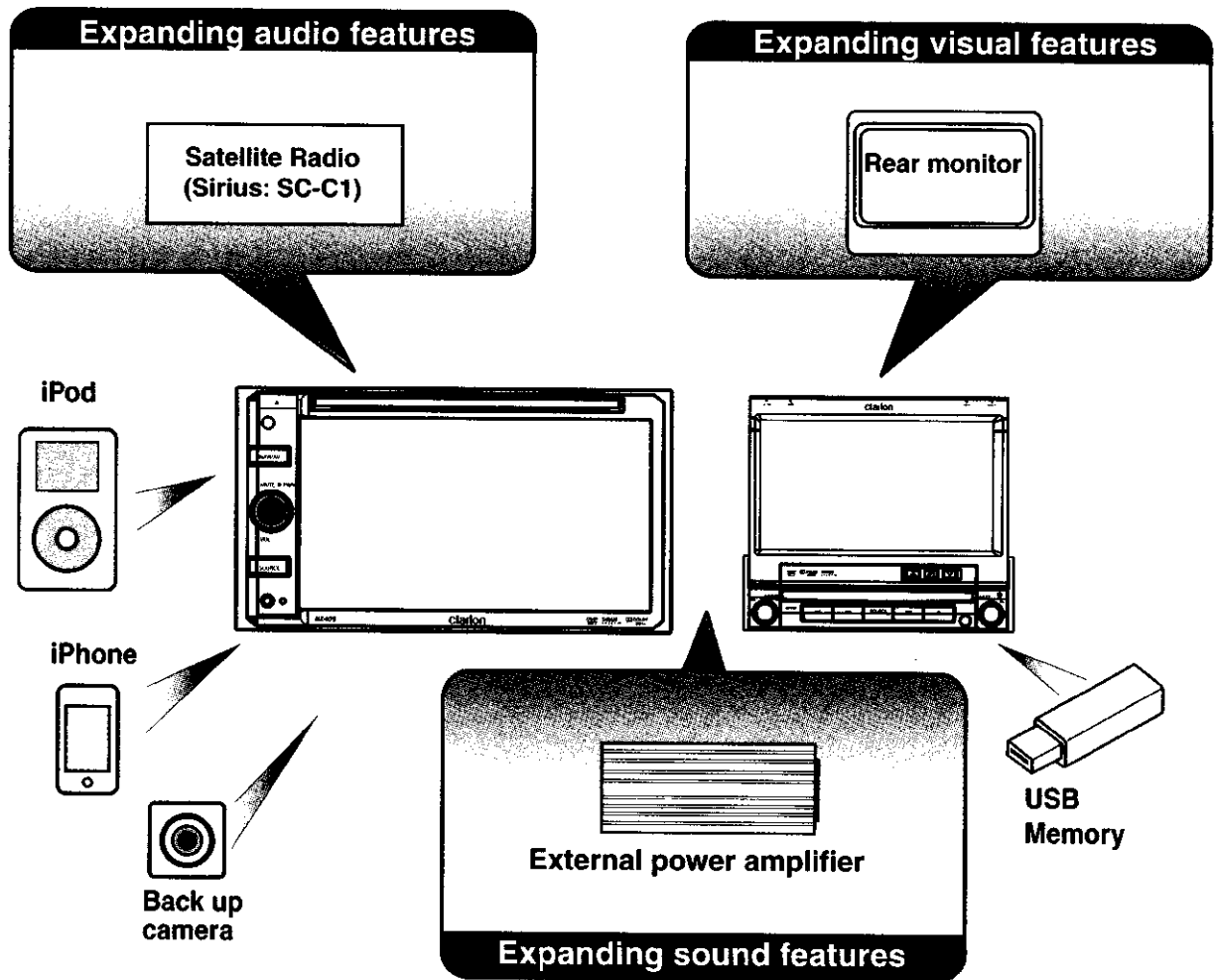
Contents

1. FEATURES

- Double Din 6.5" Touch Panel Control
- Motorized 7" Touch Panel Control
- DVD Video/CD-DA/MP3/WMA Playback Capability
- Built-In Navigation

- OEM Steering Wheel Remote Ready
- Compatible with Sirius Satellite Radio
- Bluetooth® Interface Ready
- Compatible with iPod®/iPhone™ via USB

DVD VIDEO | COMPACT disc DIGITAL AUDIO | DOLBY DIGITAL | Plays Windows Media™ | SIRIUS READY

Made for iPod | Works with iPhone | Bluetooth Ready | USB | MP3 ID3 TAG

Expanding Systems

Expanding audio features

Satellite Radio
(Sirius: SC-C1)

Expanding visual features

Rear monitor

iPod

iPhone

Back up camera

External power amplifier

Expanding sound features

USB Memory

NOTE:
The items listed outside the frames are the commercial products generally sold.
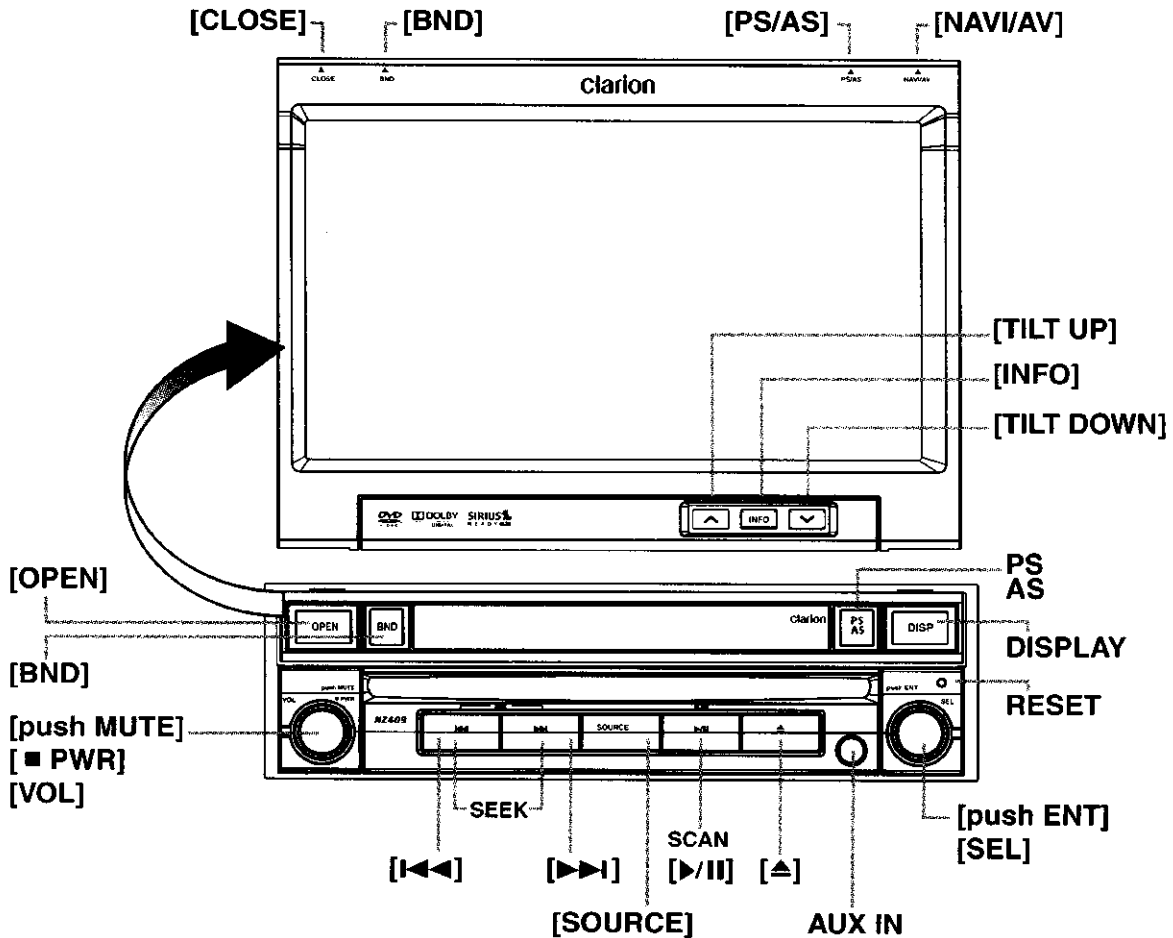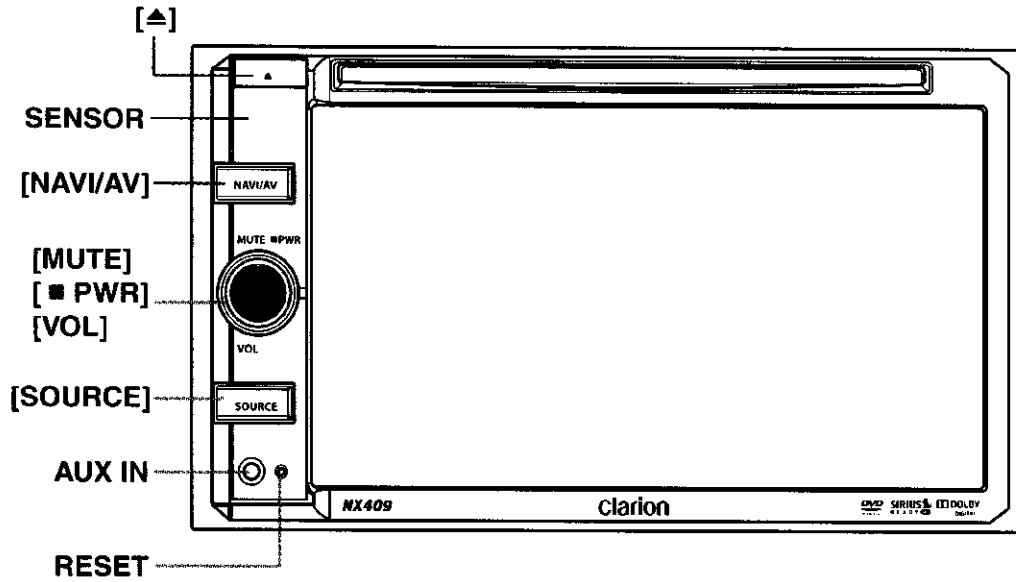
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2. PRECAUTIONS

⚠ 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.
- When using the navigation system, follow the precautions listed below. After reading this manual, be sure to keep it in a handy place (such as the glove box of your car).
- This navigation system should not be used to replace your own judgment. No itinerary suggested by this navigation system should ever override any highway regulations, your own judgment, or a knowledge of safe driving practices. Do not follow the navigation system's suggested itinerary if it would cause you to perform a dangerous or illegal act, place you in a dangerous situation, or take you into an area you consider unsafe.
- The advice provided by the navigation system is to be regarded as a suggestion only. There may be times when the navigation system displays the vehicle's location incorrectly, fails to suggest the shortest route, or fails to direct you to your desired destination. In such instances, rely on your own driving judgment, taking into account the driving conditions at the time.
- Do not use the navigation system to locate emergency services. The database does not contain a complete listing of emergency services such as police stations, fire halls, hospitals and walk-in clinics. Please show discretion and ask for directions in such instances.
- As the driver, you alone are responsible for your driving safety.
- In order to avoid a traffic accident, do not operate the system while driving.
- In order to avoid a traffic accident, operate the system only when the vehicle is stopped at a safe place and the parking brake is on.
- In order to avoid a traffic accident or traffic offense, remember that actual road conditions and traffic regulations take precedence over the information contained on the navigation system.
- The software may contain inaccurate or incomplete information due to the passage of time, changing circumstances, and the sources of information used. Please respect current traffic conditions and regulations at all times while driving.
- Where actual road conditions and highway regulations differ from the information contained on the navigation system, abide by the highway regulations.
- Keep the amount of time spent viewing the screen while driving to a strict minimum.
- The navigation system does not provide, nor represent in any way information on: traffic and highway regulations; technical aspects of the vehicle including weight, height, width, load and speed limits; road conditions including grade, percentage of incline and surface conditions; obstacles such as the height and width of bridges and tunnels; and other current driving or road conditions. Always rely on your own judgment when driving a car, taking into account current driving conditions.
- 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 foreign materials have 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.

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

INFORMATION FOR USERS:
CHANGES OR MODIFICATIONS TO THIS PRODUCT NOT APPROVED BY THE MANUFACTURER WILL VOID THE WARRANTY AND WILL VIOLATE FCC APPROVAL

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3. CONTROLS

Operational Panel

[▲]

SENSOR

[NAVI/AV]

[MUTE]
[■ PWR]
[VOL]

[SOURCE]

AUX IN

RESET

NX409   clarion

[CLOSE]   [BND]   [PS/AS]   [NAVI/AV]

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[TILT UP]

[INFO]

[TILT DOWN]

[OPEN]

PS
AS

DISPLAY

[BND]

RESET

[push MUTE]
[■ PWR]
[VOL]

[push ENT]
[SEL]

SEEK

SCAN

[|◄◄]   [►►|]   [►/II]   [▲]

[SOURCE]   AUX IN

Functions of Buttons

Note: Be sure to read this chapter while referring to front diagram "CONTROLS"

[MUTE] [■ PWR] [VOL] Knob
- Press this knob to turn on the power. Keep pressing this knob more than 1 second to turn off the power.
- Press this knob to attenuate the sound of the receiver, press again to restore sound.
- Rotate the knob to increase or decrease the volume.

[NAVI/AV] Button
- Press this button to enter navigation video.
- Press this button more than 2 seconds to return to the previous mode.

[SOURCE] Button
- Press this button to scroll through the available sources such as AM/FM Tuner, Sirius, DVD, NAVI, USB, Camera modes, etc.

[I◄◄] [►►I] [∧] [∨] Search/Seek Button
- Press to search next or previous station or channel in Tuner, Sirius radio modes.
- Press to search next or previous track or chapter in CD, MP3/WMA, iPod and DVD video modes.
- Press and hold to fast forward or fast backward by ×2 ,4,8,16 step in CD, MP3/WMA and DVD video mode.
- Press and hold to fast forward or fast backward in iPod music, Sirius radio mode.
- Press and hold to enter manual seek status in Tuner and Sirius radio mode, then press briefly to seek station by step.

[►/II] Play /Pause Button / Scan Button
Press to play, pause or scan audio or video.
- Press shortly to scan.
- Press and hold one time:
  Audio or video file will be paused. If then press briefly, file will be resumed to play.
- Press and hold two times:
  Audio or video file will be stopped. If then press briefly, file will be played from the beginning.

[▲] Eject
- Press to eject disc from unit when panel is opened.

[OPEN] [CLOSE] Button
Use this button to open/close operation panel.

[BAND] Button
- Use this button to enter AM/FM tuner mode from any source.
- Once in AM/FM tuner mode, you can press it to change bands between FM1, FM2, FM3, AM bands.

[PS/AS] Button
- Press this button to start the preset scan mode.
- Press and hold this button to start the auto preset scan and setting mode.

[∧] [∨] Button
Press the buttons to adjust the operational panel angle.

[INFO] Button
Press to turn On and Off to display list in Tuner, Sirius radio, DVD/CD modes.

[push ENT] [SEL] Button
- Press to move to next folder in iPod mode.
- Press to confirm and play current media file in CD, MP3/WMA, DVD and iPod mode.
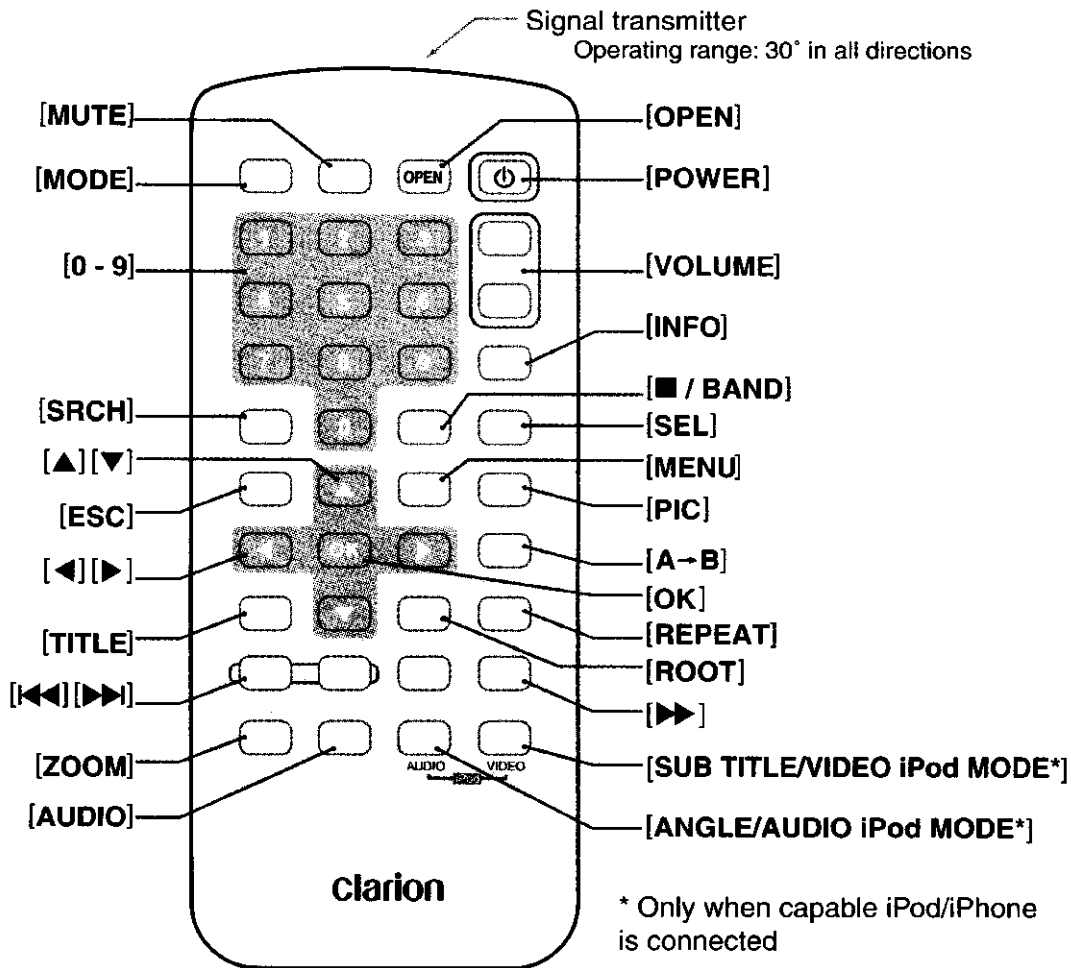
[DISPLAY] Button
- Press this button to display band in Radio, Sattelite, CD/DVD, iPod mode.
- Press one more time to dispaly current time from any mode.

RESET Button
- Press this button to reset the unit.

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

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Remote Control

Signal transmitter
Operating range: 30° in all directions

[MUTE]

[MODE]

[0 - 9]

[SRCH]

[▲][▼]

[ESC]

[◄][►]

[TITLE]

[I◄◄][►►I]

[ZOOM]

[AUDIO]

[OPEN]

[POWER]

[VOLUME]

[INFO]

[■ / BAND]

[SEL]

[MENU]

[PIC]

[A→B]

[OK]

[REPEAT]

[ROOT]

[►►]

[SUB TITLE/VIDEO iPod MODE*]

[ANGLE/AUDIO iPod MODE*]

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* Only when capable iPod/iPhone is connected

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.

Functions of Remote Control Buttons

You can use the remote control unit to control the NX409 and NZ409.

Note:

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

Shared modes

[MODE] Button

• Press this button to scroll through the various available sources such as the AM/FM tuner, DVD player, iPod, Sirius Radio, or AUX IN.

[VOLUME] Button

Increase and decrease volume.

[MUTE] Button

Turns mute on and off.

[POWER] Button

Press this button to turn the unit on or off. menu screens.

[OPEN] Button

Press this button to OPEN or CLOSE the motorized screen. Please ensure there are no obstructions before starting the operation.

[MENU] Button

Press this button to enter the MAIN MENU. From the main menu, you can select your desired source or change your settings.

[PIC] Button

Press this button to change your monitor settings such as Brightness, Color, and Contrast.

[SEL] Button

Press this button to change your audio settings such as Tone, Fader, and Balance.

[ESC] Button

Press this button to exit selection and adjustment menus.

TUNER/Satellite Radio mode

[BAND] button

Switches reception band.

[0 - 9] Buttons

• Use in the Key Pad screen to set the radio frequency or Satellite Radio channels.
• Use to select the preset number in the Preset List screen.

[SEARCH] Button

Press to show/hide the Key Pad screen.

[OK] button

Press to fix the entered data in the Key Pad screen.

[I◀◀], [▶▶I] Buttons

Press to seek the next available higher or lower station in TUNER mode. In Sirius Radio mode, you will scroll through the categories.

[◀◀], [▶▶] Buttons

Press to manually select the next higher or lower station in TUNER and Satellite Radio modes.

[▲], [▼] Buttons

Press to scroll through the saved presets in the TUNER mode. Press [OK] to tune to the highlighted preset.

[INFO] Button

Press to switch in and out of the LIST mode while in the TUNER/ Sirius Radio mode.

DVD PLAYER mode

• Press to turn on and off the playtime display in the DVD video.
• Press to switch in and out of the LIST mode while playing CD audio.

[SEARCH] Button

Press to open the direct search menu while in the DVD video mode.

[OK] Button

Press to select, play or pause video and audio media.

[■ /BAND] Button

•Press to stop video and audio media playback.

[0 - 9] Buttons

• Press to enter DVD video chapters/titles in the Key Pad screen.
• Press to set the track/folder number of the CD, or MP3/WMA in the Key Pad screen.

[DISC SEL] Button

• Press to show/hide the Track List screen in the CD mode.
• Press to show/hide the Folder List screen in the MP3/WMA mode.

[TITLE] Button

Press to go to the title menu on the DVD.

[ROOT] Button

Press to go to the root menu on the DVD.

[▲], [▼], [◀], [▶] Buttons

• Press to select button items on the menu screen of a DVD video.
• Press [◀], [▶] to scroll the through the page screens in the CD and MP3/WMA modes.

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Functions of Remote Control Buttons

[|◄◄], [►►|] Buttons
- Press to select the next higher or lower chapter number in DVD video mode.
- Press to select the next higher or lower track in CD.

[◄◄], [►►]Buttons
Press to perform fast-forward and fast-backward. Press again to advance to higher speed reversing or forwarding such as 2x, 4x, 8x and 1 6x. Press once more to resume normal speed playback.

[RPT] Button
- Press to perform chapter repeat in the DVD video mode, and track repeat in CD and MP3/WMA modes.
- Press again to perform title repeat in DVD video mode or folder repeat in MP3/WMA mode. In CD mode, this will activate the repear all mode.
- Press again to perform all repeat in MP3/WMA playback mode.

[A ➡B] Button
- Press to set initial starting point of repeat. The screen will show 'REP A-'.
- Press again to set repeat ending point. The screen will show 'REP A-B'
- Press again to turn off A-B repeating. The screen will show 'REP AB Off'

[ZOOM] Button
Press to turn on and zoom in while in DVD Video mode. You can zoom in up to 3x.

[AUDIO] Button
Press to switch the AUDIO function in the DVD video mode.

[SUB-T] Button
Press to display subtitles in the DVD video mode.

[ANGLE] Button
Press to switch the ANGLE function in the DVD video mode when the Angle mark is displayed.

[OK] Button
Press to play or pause the selected media.

[◄], [►] Buttons
Press to scroll the list screens.

[|◄◄], [►►|] Buttons
Press to select the next higher or lower track numbers.

[◄◄], [►►] Buttons
Press to perform fast-forward or fast-backward searching. Press again to change the speed to 2x, 4x, 8x or 16x.

4. 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. Doing so may damage or deform the cabinet.
- 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.

Navigation System

- To prevent discharge of the car battery, use this system with the engine of the vehicle running as much as possible.
- The housing of this unit may become hot because this unit has a high-speed CPU. Be careful to handle the unit during navigating or immediately after turning the power off.
- Turn off the power of the vehicle when connecting or disconnecting wires. Doing this while the power of the vehicle is turned on, may cause a trouble or malfunction.

Note:
- *When using this unit first time after purchasing, or not used for long periods of time, it might take about 5 to 15 minutes until the current location is determined using GPS. Moreover, even when using it often, it may take about 2 to 3 minutes until the current location is determined according to the GPS measuring situation.*
- *When the route (path) cannot be calculated, move desired destination to a nearby main road and perform calculation again. It may*

be impossible to find a route in case the car location is too close to the desired destination.
- *For vehicles equipped with an intelligent key, do not bring the intelligent key close to the unit of the navigation system. The navigation system may not operate correctly.*
- *If an electrical equipment that generates a strong electrical noise is used near this unit, the screen may be disturbed and noise may be generated. In this case, keep away such an electrical equipment or refrain from using it.*
- Data saved to the flash memory may get lost in case of a breakdown, malfunction, or other trouble of this unit.
- Operation of the navigation system may be limited to protect the unit if the temperature is extremely high or low. In such a case, please wait until temperature becomes normal again.

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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 judgment.
- The USB memory sticks must be recognized as "USB mass storage class" to work properly. Some models may not operate correctly. **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.
- 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 cannot be played back.

⚠ WARNING
Alkaline (CR) button batteries contain Perchlorate. Don't put in Trash. Dispose as Hazardous Waste.

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

• 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.

Ball-point pen

Roughness
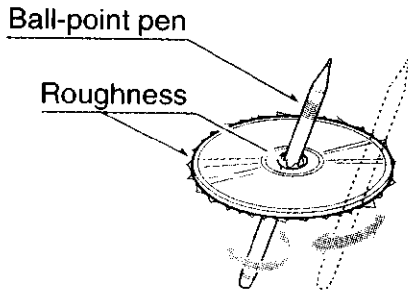
• Never stick labels on the surface of the disc or mark the surface with a pencil or pen.
• Never play a disc with any cellophane tape or other glue on it or with peeling off marks. If you try to play such a disc, you may not be able to get it back out of the DVD player or it may damage the DVD player.
• 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.

DVD video is a high-quality digital video source that provides crisp and clear images. One 12 cm disc contains either one film or four hours of music.

DVD Video Features

This unit provides the following functions in addition to the high image quality and sound quality of DVD video.

Note:
- *The functions described in this section, for example, the recorded language, subtitles, angles, etc. differ depending on the DVD video disc.*
  Refer to the instructions provided with the DVD video.
- *Some disc functions may operate differently from described in this manual.*

Multi-sound function
DVD video can store up to 8 languages for one film; select the language of your preference.
- The languages stored on the disc are indicated by the icon shown below.

Multi-angle function
A DVD video that is filmed from multiple angles allows you to select the angle of choice.
- The number of recorded angles are indicated by the icon shown below.
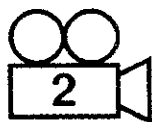
Subpicture (subtitles) function
A DVD video can record subtitles for up to 32 languages and you can select the language of the subtitles you wish to see. The number of recorded subtitle languages are indicated by the icon shown below.

Multi-story function
When a DVD video contains more than one story for a film, you can select the story you wish to enjoy. The operation procedures vary with the disc; observe the instructions for selecting a story provided during playback.

Menu screens
Menus can be called up during DVD video playback to perform menu setting.

- Example showing menu display
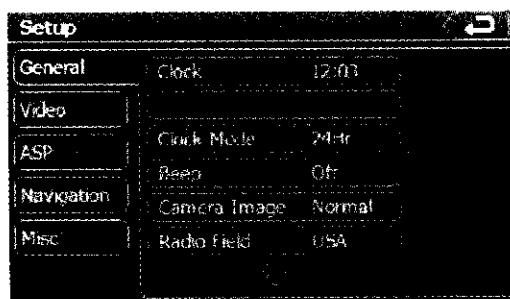
Discs

Playable discs

This DVD video player can play the following discs.

Playable discs	
DVD video discs	MP3 ID3 TAG
Audio CDs	WMA
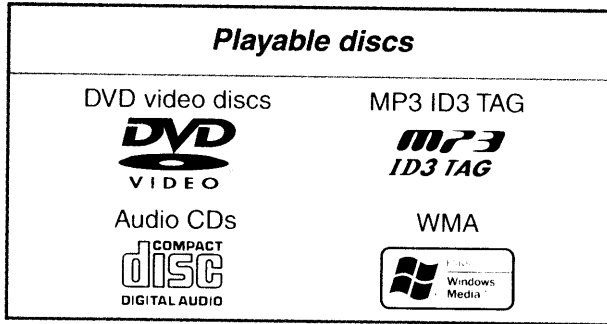
About CD Extra discs

A CD Extra disc is a disc in which a total of two sessions have been recorded. The first session is Audio session and the second session is Data session.
Your personally-created CDs with more than second data sessions recorded cannot be played on this DVD video player.

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

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

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

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

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

Discs that cannot be played back

This DVD video player cannot play back DVD-Audio, DVD-RAM, Photo CDs, etc.

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

About MP3/WMA playback

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

Note on region numbers

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

About the registered marks, etc.

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

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

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

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

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

Basic Operations

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

⚠ CAUTION

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

Turning ON and OFF the Power

Note:
* Start the engine before using this unit.
* Be careful about using this unit for a long time without running the engine. If you drain the car's battery too far, you may not be able to start the engine and this can reduce the service life of the battery.

1. Start the engine. The power button / knob illumination on the unit will light up.
2. Press the [■ PWR] button on the tuner to turn ON the power.
3. Press the [⏻] power button on the remote control to turn ON the power.
4. To turn OFF the power, press and hold the [■ PWR] power button on the tuner for more than 2 seconds.
5. To turn OFF the power, press and hold the [⏻] power button on the remote control for more than 2 seconds.

Engine ON position

⇓

clarion

⇓
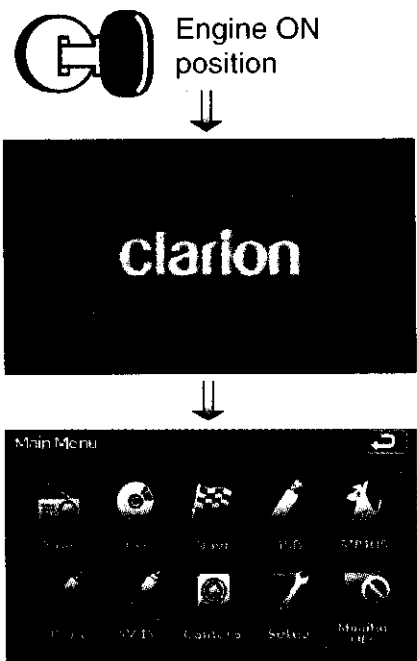
Opening and Closing Operational Panel

Press [OPEN] button on the unit (NZ409).
The operational panel will be open.
Press the same button again to close the panel.

⚠ CAUTION

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

Adjusting the Angle of the Operational Panel

Adjust the desired angle by pressing [∧] [∨] tilt buttons on the unit (NZ409).

Selecting a Mode

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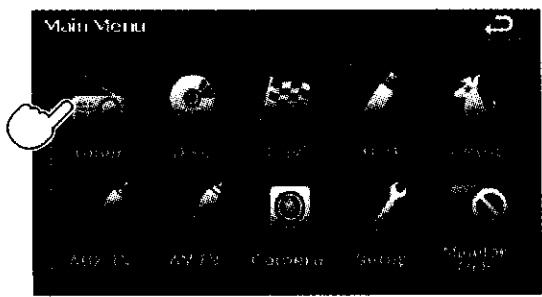
Turning Monitor ON or OFF

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

Basic Operations

Adjusting the volume

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

⚠ CAUTION

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

Mute

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

Adjusting the Settings

1. Press **[Setup]** to enter setting menu mode.
2. Press the desired mode button.
   Modes come in the following order:
   • General, including **Clock** settings, **Beep, Camera Image, Radio Field, Tel Mute, Tel SP, Auxin Input**
   • Video, ASP, Navigation, Misc.
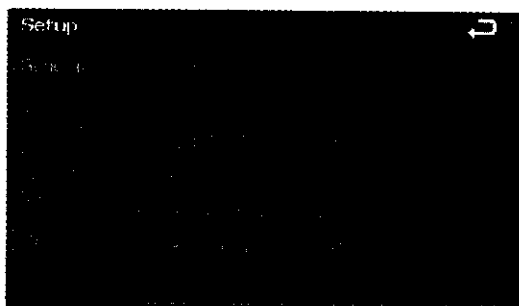
3. Perform the adjustment for the desired item. See the following sections fo details.

Adjusting the Audio

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

See the following sections for detail.

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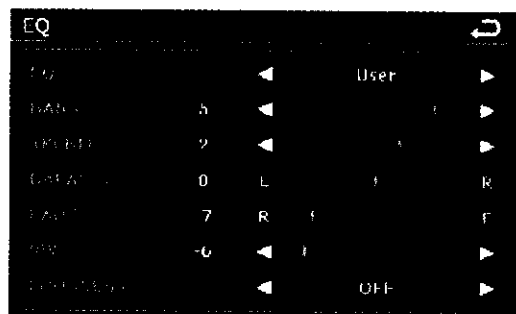
Adjusting the Balance/Fade

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

Adjusting the Bass

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

Adjusting the Treble

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

NX409/NZ409

Basic Operations

Adjusting the clock

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

2. Set up the time by touching the digital numbers on the screen.
3. Touch the **[Clock Mode]** to change time settings to 12Hr or 24Hr. Select 12AM or PM mode.

Adjusting the Radio region

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

Displaying the Navigation Map

1. Touch the **[Navi]** button on the Main Menu screen.
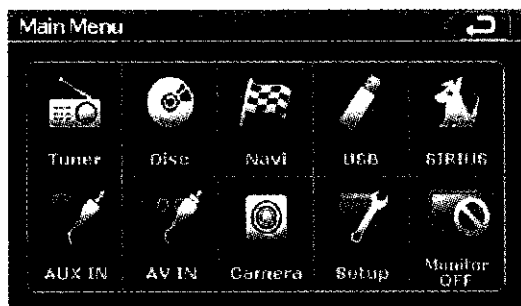
The warning screen will be displayed.

2. Press the highlighted check mark (Accept). The Main Menu will be displayed. Select your destination.
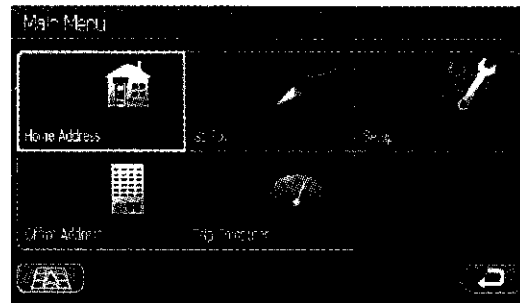
3. Select one of the options dispalyed on the screen.
   - **Go To...**
   - **Point of Interest**
   - **State or Province: CA** (The software remembers the last State/Province)
   - **History** (The adresses you navigate before)
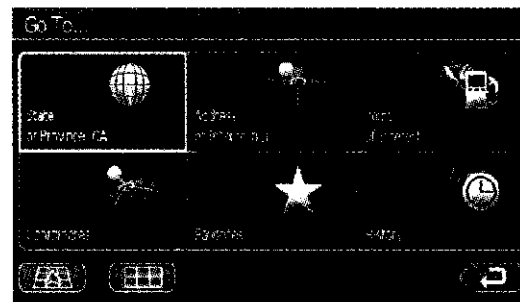
4. The navigation system will calculate a route to the selected destination by using the criteria set in **Setup Mode**.
5. Touch the **State or Province** button. The "City" keyboard screen will be displayed. Press the "Check" (1) button to choose the city from the list, or spell the City name on keyboard. Than press Enter (2) button.
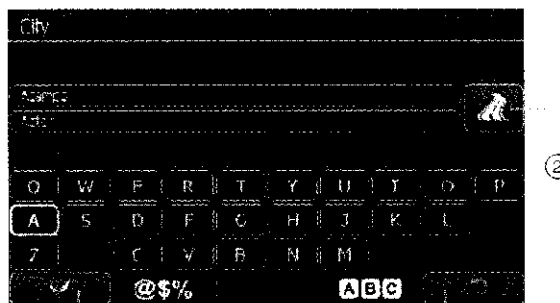
1.	Check button
2.	Enter button
3.	Return to previous screen (menu)

6. Enter the required information on the screens displayed in the order shown below.
In order to proceed to the next sreen, press the "Check" button.
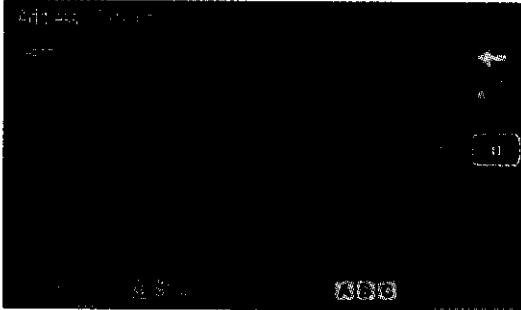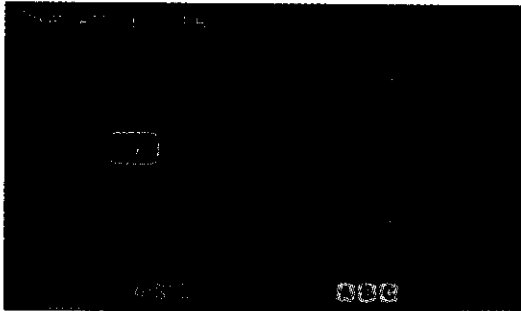
7. Press the highlighted "Start Route" button.
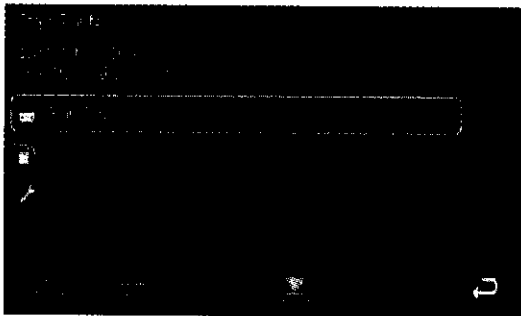
8. Route map will be displayed. The navigation to your destination will start.
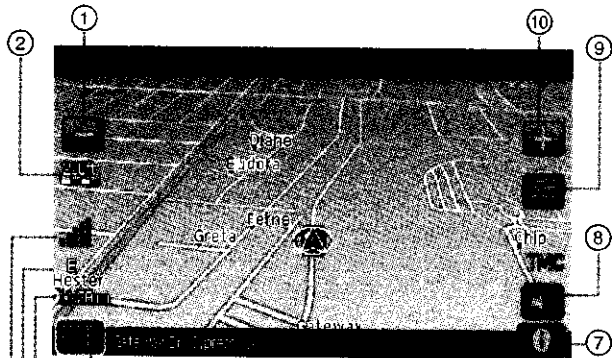
1.	Zoom Out	6.	Back to Menu
2.	Map Scale	7.	Local Information
3.	GPS Status	8.	Mute
4.	Compass Position	9.	Change View
5.	Current Time	10.	Zoom In

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

Reset to Factory Defaults

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

Radio Operations

Listening to the Radio

1. Touch the **Tuner** button on the Main menu display. The tuner mode screen is displayed.
2. Press the **[BAND]** button or touch the **[Band]** key on remote control to select the radio band. Each time the button is pressed, the radio reception band changes in the following order: FM1 FM2 FM3 AM FM1...
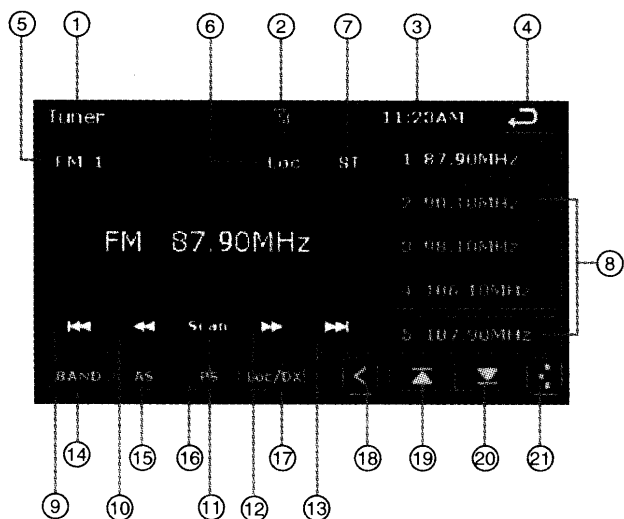
1. Tuner display	12. Tune Up
2. Signal intensity	13. Seek Up
3. Time display	14. Band button
4. Return to previous screen	15. AS button
	16. PS button
5. Band display	17. LOC/DX Button
6. Loc/DX display	18. Slide Bar (Use it to hide some function buttons)
7. Stereo/Mono signal mode	
8. Preset list	19. Previous page button
9. Seek down	
10. Tune down	20. Next page button
11. Scan button	21. EQ mode button

Seek Tuning

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

Manual Tuning

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

Recalling a preset station

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

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

Auto Store

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

Radio Operations

Preset Scan

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

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

LOC/DX Setting

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

1. Touch the **[DX]** key to switch to LOCAL tuner sensitivity.
2. Touch the **[LOC]** key to switch to DX tuner sensitivity.

DVD Video Player Operations

Change DVD System Settings

Note:

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

Selecting DVD Set Up Menu

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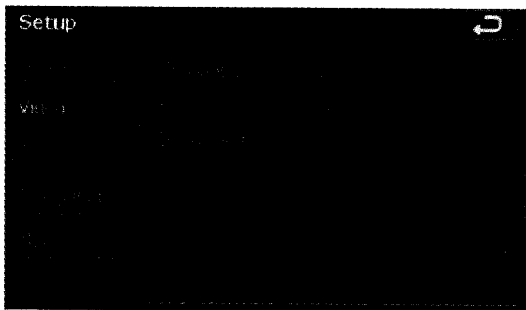
Setting up the Screen Size

Press the **[TV Shape]** button on the display in to change the sceen size **4:3** or **16:9**.
The factory default setting is " 16:9 ".

• When watching a wide type through a conventional type of the rear view monitor (4:3), the leftmost and rightmost areas of the screen are cut off.
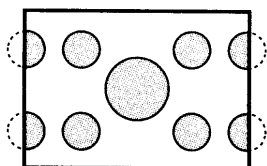
This function allows displaying the important

part of image fully on the screen. In some cases, image is displayed while being panned (scrolled).

• When watching a wide type through a wide type of the rear view monitor (16:9), the leftmost and rightmost areas of the screen are not cut off.
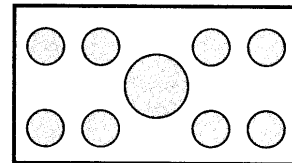
Setting up the Video System Format

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

Setting up the Video Brightness

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

DVD Video Player Operations

Setting up the password for parental level control

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

Setup	
General	TS Calibrate No
Video	Set Password ----
ASP	Parental control Kid Saf
Navigation	
Misc	
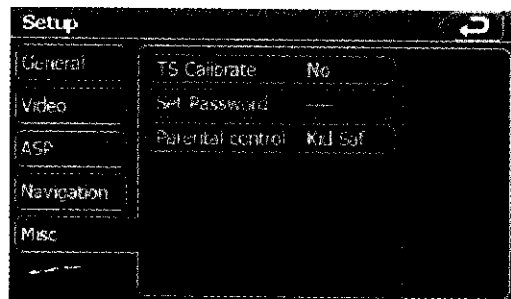
Input a new password. The password is set.
Note: When a disc with view restrictions is inserted, you will be prompted to input a password. The disc will not be viewable until the correctpassword is entered.

Set rating for parental level control

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

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

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

Watching/Listening to a disc

Note: Refer to the diagram in "CONTROLS" chapter.
1. To load a disc:
Press the **[OPEN]** button to flip down the front panel. (NZ409 only)
Insert the disc into the center of the insertion slot the label side facing up.

```
⚠ CAUTION
```

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

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

```
⚠ WARNING
```

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

Ejecting a disc

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

Showing DVD Player mode screen

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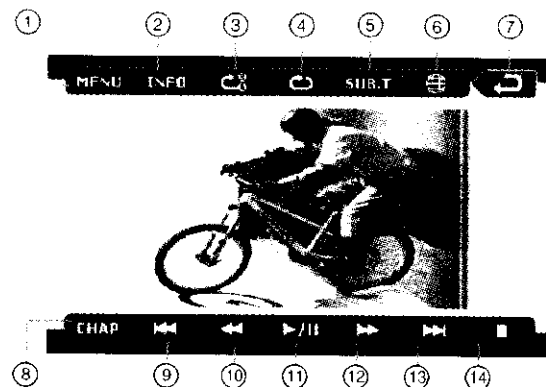
DVD Video Player Operations

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

Operate the DVD Player menu

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

Stop Playback

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

Play/Pause Playback

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

Skip(Search) a Chapter

1. Press the [I◄◄] or [►►I] button during playback.
2. Press the [∧] or [∨] button during playback. (NZ409)
Chapters are skipped down or up from current locations, as many times as the button is pressed, and playback starts.

Fast Forward Fast Backward

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

Search with a Chapter/Title Number

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

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

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

Repeat Playback

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

Repeat A → B

Select the desired passage to play back.
Touch [⟳⅛] repeat A to B button.
Selected passage starts play again.
Touch this button again to stop replay.

DVD Video Player Operations

Using the Title Menu

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

1. Showing the DVD PLAYER mode screen, touch the **[CHAP]** key during playback.
   The title menu screen appears.
   *Depending on the disc, the title menu cannot be called.
2. Select the button items displayed in the title menu screen by the same way of the DVD menu operation.
   *Depending on the disc, items cannot be selected with the ten-key buttons.

Using the Title Menu

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

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

Switching Subtitles

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

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

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

Switching angles

On DVD discs in which video images have been recorded in two or more angles, you can switch among the angles during playback.

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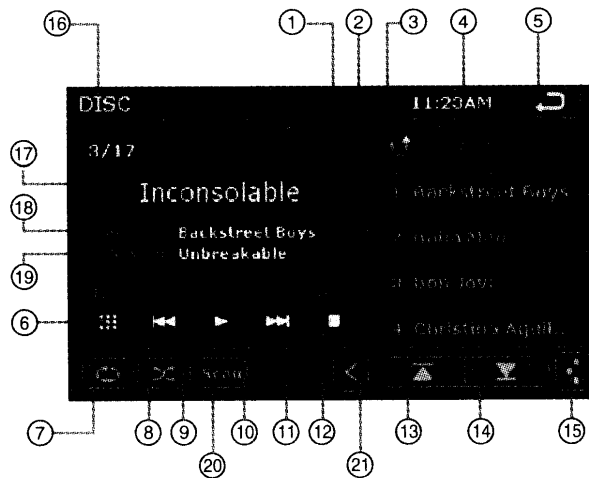
Displaying the playback status

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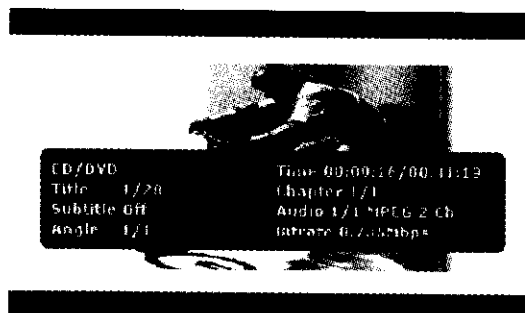
LISTENING TO a CD

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

Pausing Playback

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

Skipping a Track (searching)

Touch the [I◄◄] button during playback.
Tracks are skipped, as many as the times the button is pressed, and playback starts.
- Pressing the [▶▶I] button starts playback from the beginning of the next track.
- Pressing the [I◄◄] button starts playback from the beginning of the current track. When this button is pressed again within about 2 seconds, playback starts from the beginning of the previous track.

Fast Forward and Fast Backward

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

Scanning the Tracks

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

Searching with the Track Number

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

Selecting a track on the Track List Screen

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

Other various play functions

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

DVD Video Player Operations

Listening to MP3/WMA

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

What is MP3/WMA?

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

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

Displaying MP3/WMA TAG titles

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

Precautions when creating an MP3 disc

• File extensions

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

• File and Disc Not Supported

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

• Logical format (File system)

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

• Entering File and Folder Names

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

• Electronic Shock Protection

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

• Folder structure

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

• Number of files or folders

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

Playing MP3 folders

When selected for play, files and folders (Folder Search, File Search or Folder Select) are accessed in the order in which they were written to the media. As a result, the order in which they are expected to be played may not match the order in which they are actually played.

You may be able to set the order in which MP3/WMA files are to be played by assigning file names beginning with play sequence numbers such as "01" to "99".

For example, a medium with the following folder/ file hierarchy is subject to Folder Search, File Search or Folder Select. See the diagram below.
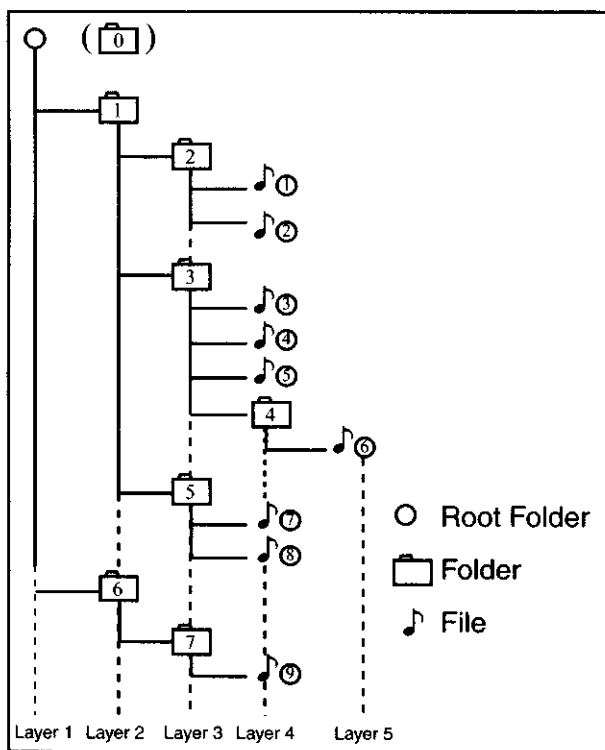
The player will only recognize three folder levels and does not display folders containing other folders. In the example above, the unit will display folders 3, 4, 6, and 8, but not 2 and 7 since they do not contain others.

Playback Picture Menu

The picture on the display comes with the different functions to operate.
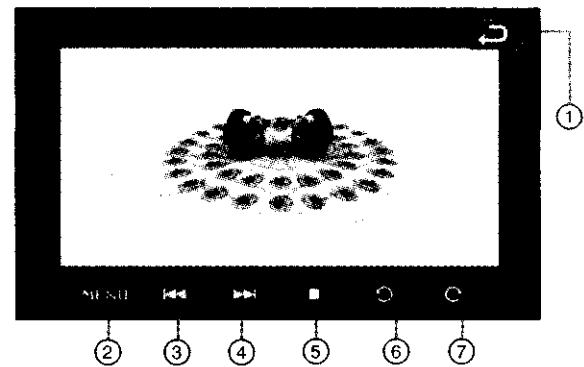
1.	Back Button
2.	Menu Button
3.	Previous Picture Button
4.	Next Picture Button
5.	Stop Button
6.	Rotate Picture counterclockwise
7.	Rotate Picture clockwise

• Touch [▶▶|] button to play next picture.
• Touch [|◀◀] button to play previous picture.
• Touch [■] button to stop playing.
• Touch [○] button to rotate picture 90° counterclockwise.
• Touch [C] button to rotate picture 90° clockwise.
• Touch [MENU] button to return to disc root Menu.
• Touch [⏎] button to return to the Main menu.

This function is available when a Sirius Satellite Radio Receiver is connected through the dedicated connection. This unit requires the following receiver:
SIRIUS Satellite Radio Receiver: SC-C1

Note:

SIRIUS satellite radio is a subscription service. Please contact Sirius Radio to begin or alter your subscription:
• *Internet: www.sirius.com*
Telephone: 888-539-SIRIUS (747487)

Selecting a Satellite Radio mode

Press the **[SIRIUS]** button on Main Menu display. The system changes to the Sirius Satellite Radio mode. The Sirius mode screen is displayed.
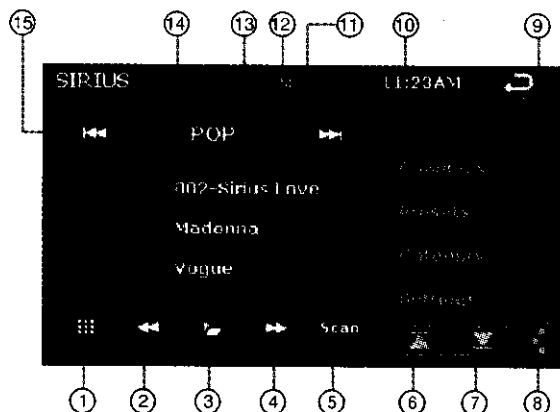
1. Keyboard Button	8. EQ Button
2. Previous Channel Button	9. Back Button
	10. Time Display
3. Store Button	11. Mute Display
4. Next Channel Button	12. Satellite Signal
5. Scan Button	13. Next Category Button
6. Previous Page Button	14. Category Name
	15. Previous Category Button
7. Next Page Button	

Information Displayed During Reception

The following information is displayed when the satellite radio cannot be received normally.
• When the receiver is turned on the first time or after a reset: **"UPDATING"** followed by a percentage of completion.
• When a channel is being tuned in (no signal is yet received): **"ACQUIRING SIGNAL"**
• A channel without a broadcast has been selected: **"INVALID CHANNEL"**
• A channel not covered by your contract: **"CALL 888-539-SIRIUS"**

Call (888) 539-747487 to activate your radio.
• When a channel is out of air time: **"OFF AIR"**
• When the antenna is disconnected or has been damaged: **"ANTENNA ERROR"**

Confirming Your Radio ID

1. Touch the [▦] keyboard button on the SIRIUS Menu display to display the keypad. Enter **"0"** and press **"OK"**.
   Your SIRIUS ID (12-digit number) will be displayed.
2. Touch the **[Settings]** button on the SIRIUS Menu display to enter Settings menu.
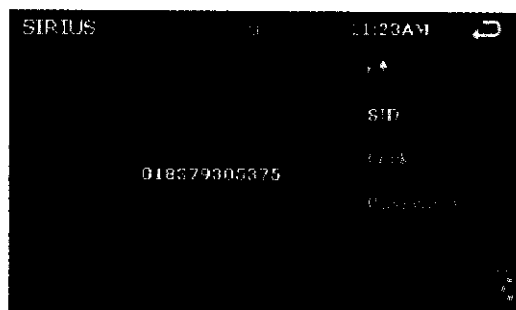
2. Press **[SID]** button. Your SIRIUS ID (12-digit number) will be displayed.

Channel Selection

1. Touch the **[Channels]** button on the SIRIUS Menu display to enter channel list preview mode.
2. Select the channel with the **[◀◀]** or **[▶▶]**. Only channels that can be received are selected.
   Channels that are locked and channels not covered by the contract will be skipped.
   The receiver seeks the next available channel below or above the current channel.
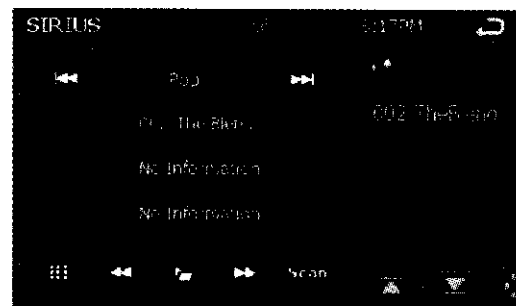
Channel Selection with the channel number

1. Touch the direct access button on the SIRIUS Menu display to enter direct channel selection.
2. Enter the channel number of your desired station by touching the **[0]** to **[9]** keys.

Sirius Satellite Radio Operations

If you enter a wrong number, you can cancel it by touching the **[BACK]** key.
3. Touch the **[OK]** key.
The radio channel you entered will be tuned.

Channel Selection with the channel number

A total of 20 satellite radio stations can be stored in the receiver's memory. You can access the presets by pressing the **Presets** button.
This allows you to store your favorite satellite radio stations in the memory for later recall.
1. Touch the **[Preset...]** button to enter the preset list to select or save your presets.
2. Touch **[▲]** or **[▼]** button to view previous or next page.
* There are 5 pages of preset memory space available for your use. You can scroll the pages using the scroll bar buttons to the right of the screen.
3. Touch the **[Preset...]** key to return to the previous screen.

Auto Preset Store

1. Touch and hold for more than 2 seconds the corresponding preset key to save the selected channel.
2. Touch the **[⟳]** button to save the current channel.

Deleting a Preset

1. Touch **[Preset...]** button and enter the preset menu.
2. Touch the preset button you would like to delete.
3. Touch the **[DEL]** button to delete it.
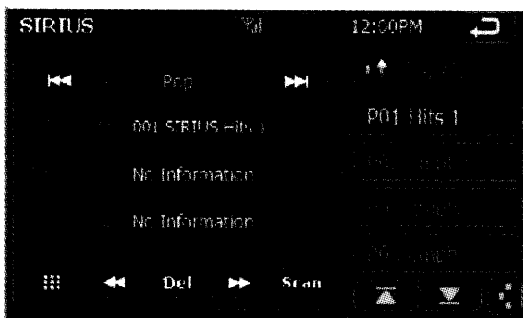
Receiving Stations by Category

Satellite Radio allows you to select broadcast channel category (contents).
1. Touch **[Categories]** button to enter category mode.
2. Touch **[▲]** or **[▼]** button to view all valid category.
3. Touch the desired category item key to select the category.
4. Select the desired channel by touching it momentarily on the screen.

Note:
When the category selection mode is entered, the category of the last received channel is displayed first.
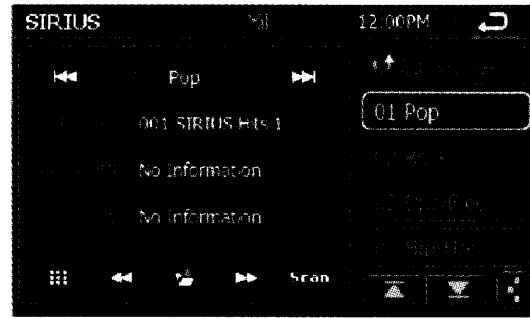
Parental Controls Lock Channels

1. Touch **[Settings]** button to enter setting list.
2. Touch **[Lock]** button to enter lock list.
3. Touch **[▽]** key to view next page in the lock list.
4. Touch the channel item, and it will be locked or unlocked altenately.
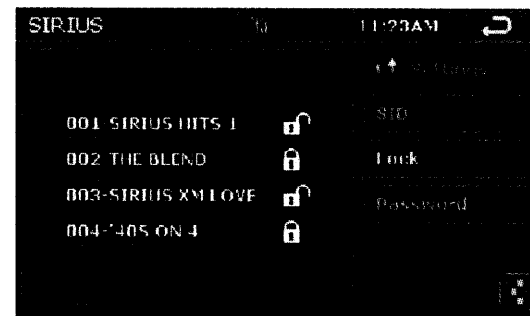
Setting the password

1. Touch **[Settings]** button to enter setting list.
2. Touch **[Password]** button to enter password mode.
3. Touch **[🔒]** to set password.
4. Touch **[🔒]** button to remove password.
5. Touch **[Settings]** button to return to Sirius menu.
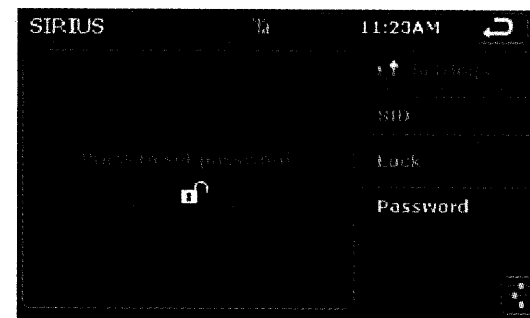
Note:
If you set passwords, you must input the correct code to enter lock list. When you try to locked channel by keypad, it will dispaly password's keypad. Only entering correct code can tune to the channel, or it will be back to the last channel, if a password is wrong.

Navigation System Operations

Introduction to Navigation Software

Navigation software provides turn-by-turn visual and voice assistance to direct you to selected destination. The software quickly calculates step-by-step directions to any destination available on the included navigation map. The navigation software uses Global Positioning System (GPS) satellites, and a digital roadway map database to calculate and display travel directions. The system's GPS antenna receives signals from a constellation of 24 satellites orbiting the earth and uses the strongest of signals, to determine your position to within meters.

Vehicle Position

The navigation software's computer considers vehicle speed and heading changes, together with longitude and latitude information, to accurately determine vehicle heading and position on a digital map. Signals from GPS satellites are used to determine the vehicle location. Three (good) or four (best) satellites must be received to accurately determine location. The GPS reception status is indicated by the GPS symbol on the map.

Map and Information Database

The map database used by navigation software was created using high-resolution aerial and land based data collection. Car navigation maps are frequently updated. While the database was judged to be as accurate as possible at the time of its release, a map database can never be 100% accurate. Road information that is maintained in the map databases, such as turn restrictions or road names may change over time.

Main Menu Screen Operations

1. After the navigation system is activated by touching "NAVI" button om the Main Menu screen, the warning screen is displayed. Press the button to accept it.

2. The "Main Menu" navigation screen is displayed.
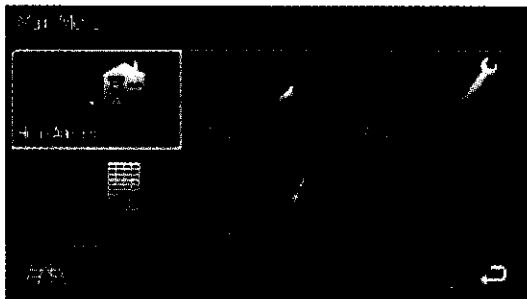
3. Main menu screen has different options:
   Home Address - Route to home address.
   Go To... - Select a destination for navigation.
   Setup - Set preferences for routing and navigation display.
   Office Address - Route to office address.
   Trip Computer - Display speed, trip, odometer reading, clock reading.

4. To operate the navigation system use display function buttons as described below.

|	
[+]	Zoom in the map to show a smaller area
[–]	Zoom out the map to show a larger area
[2D]	Return to Map mode Display map in 2D view
[↩]	Return to the previous screen
[↩]	Display menu, jump to main menu
[3D]	Display map in 3D view
[↖]	Select current panned position, after panning map.
[i]	Information about current location on the map, mode items
[✓]	Select (check) currently highlighted item
[ABC]	Display spell mode
[▲▼]	Page up, page down in displayed list
[▲][▼]	Step up or step down on menu list
[◀))	Voice instructions are activated
[↻]	Reset button
[✕]	Cancel button
[🗑]	Delete button (Move cell content to Trash can)

Route to home address

1. Touch the **Home Address** button on the screen. If the home address is not set previously, the following screen will be displayed.

2. Press the check key to display home address set up screen.
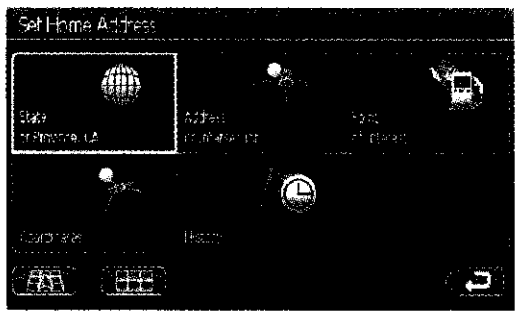

3. Select one of the option on the screen to set the address. Once the address is set, it will be saved in the software memory.

4. If the home address was saved previously, the screen with address will pop up, after you touched the **Home Address** button. Start your route
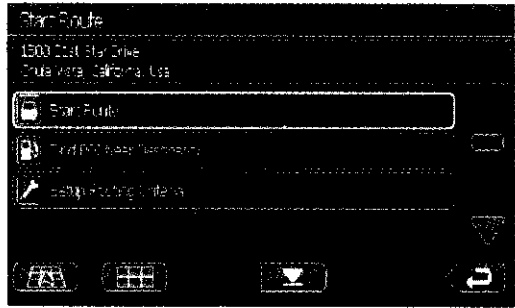
Select the destination

To select the destination press **Go To...** button on Main Menu screen. The **Go To...** screen is displayed.
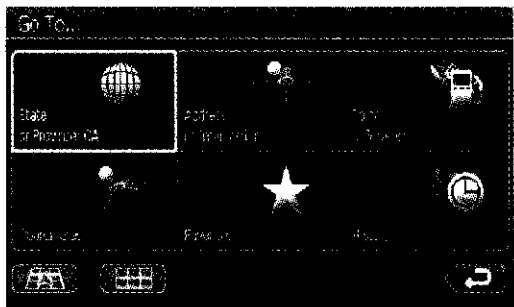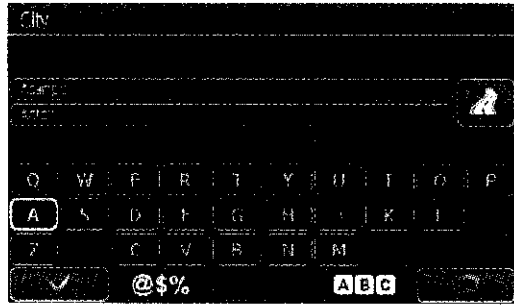

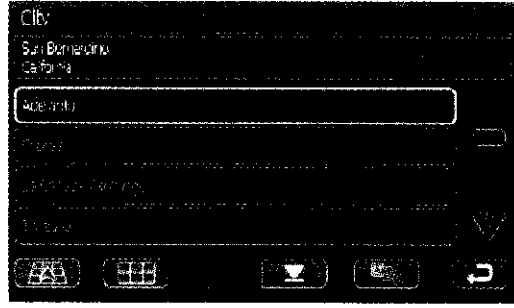To start your navigation use one of these modes:
Address or Intersection
Point of Interest
Favorites
History

Adress or Intersection Mode

1. Press **Address or Intersection**, if you know the street address. The spelling keyboard will be dispayed.


2. Touch the first letter of desired city on the keyboard. The city name will appear on the screen.

3. Touch the select key. The list of the cities, which name starts with same letter, will be displayed. Press the desired city name.

NX409/NZ409

4. Touch ![street key icon] street key to dispay street name.
The street screen is displayed.

5. Choose desired street by typing on the keyboard. The list of streets under this letter will be displayed. Press up or down button to go thru the list. Select your street.

Press ![button icon] button to return to the street mode screen.

6. Touch the ![button icon] postal code button to dispay postal code.

Press the select key to dispaly the list of the postal code. Select the desired code and press return key.

Point of Interest Mode

1. Use **Point of Interest** option when you are going to a public place or are looking for some type of facility such as a gasoline station. After selecting the **Point of Interest** option, you must select the State/Province where the destination is located.

NOTE: The system remembers the last State/Province selected, so this step is not necessary every time.

2. **Point of Interest** may be searched by Category, City or Name.

• Use **Category** mode, if you are lookig for a certain service or business, like nearest gas station.

• **City** mode - select the city by spelling it's name.

• **Name** mode - select the name by typing it.

Coordinates Mode

You can route to a destination by directly inputting latitude and longitude values.
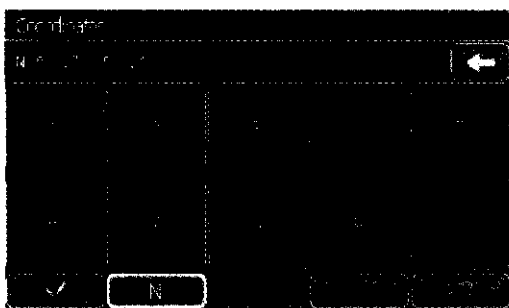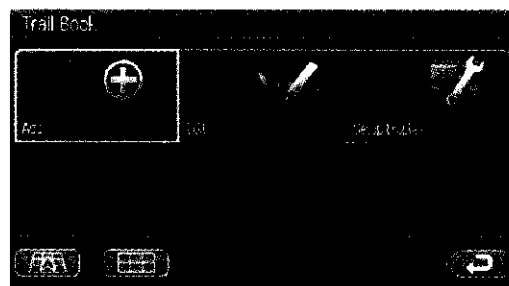

Favorites Mode

You can select your route to a destination by choosing one of preset favorite places in the **Favorites** mode.
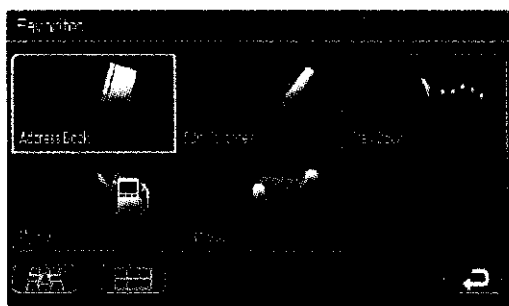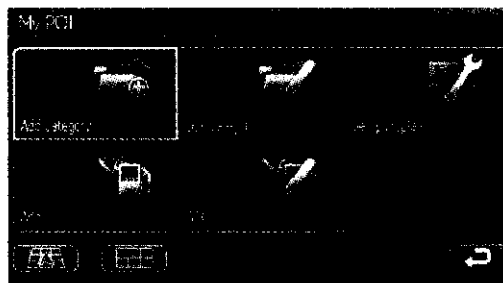

1. **Address Book** is a convenient place to store frequently visited destinations.

2. **Trail Book** will allow to create your own navigation routes.

3. **My POI** will allow to create and save your personal points of interest.
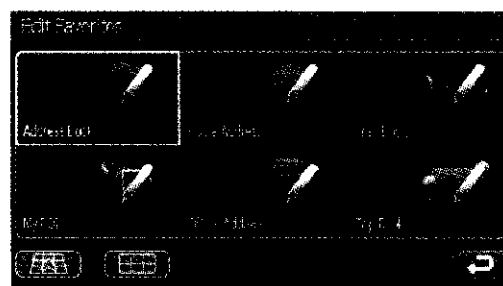

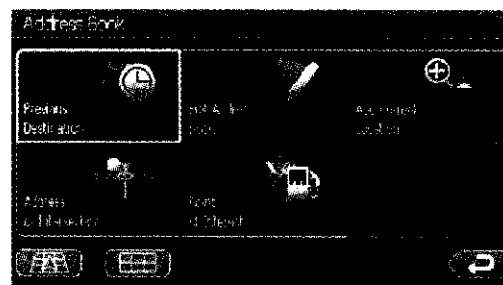4. **Trip Book** will allow to navigate multiple destination trip.

Edit Favorites

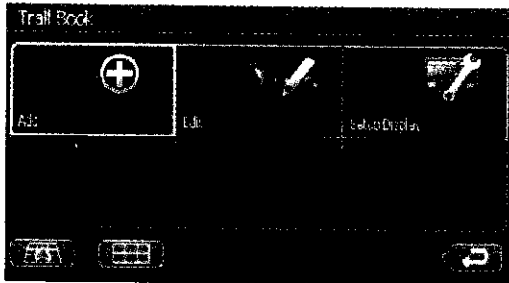1. Press this button to edit **Address Book, Trail Book, Trip Book, My POI.** The following screen will pop up.

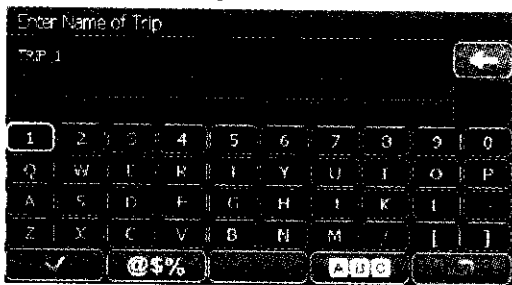2. Select the mode, you want to edit. The editing screen will be displayed.
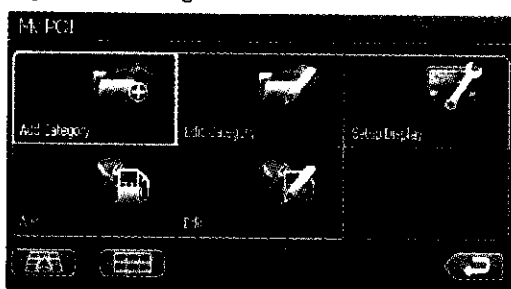
Address Book editing screen:

Trail Book editing screen:


Trip Book editing screen:


My POI editing screen:

History Mode

Previous destinations entered into your navigation software are automatically saved into the memory. This is helpful when you want to return to a recent destination, such as a hotel where you may be staying. The Previous Origin of the last calculated route is also stored for easy return to your start point.
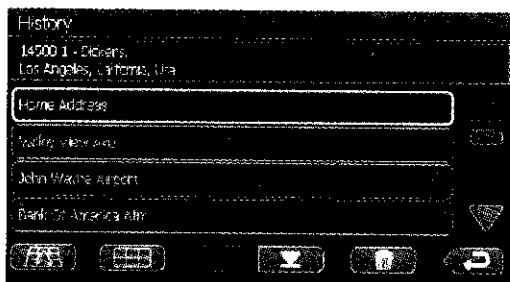
System Preferencies Setup

Press this button to set up your preferences for routing and navigation. The following screen will pop up. Select the mode you want to be set.
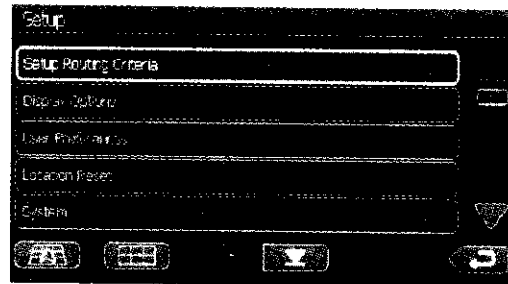
1. Press **Select Routing Criteria** to set up your driving preferences. Check the preferable items on pop up screen.
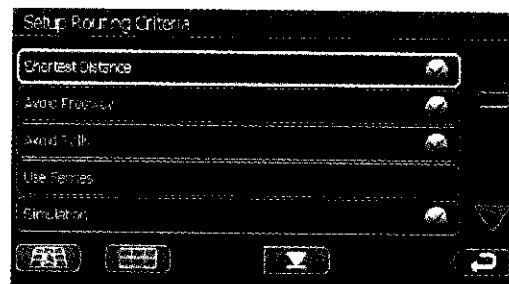
2. Press **Display Options** to set up your screen display preferences. All the options are listed on 3 screens. Check the preferable items on pop up screen list.

3. Press **User Preferences** to set up your personal preferences. All the options are listed on 2 screens. Check the preferable items on pop up screen list.

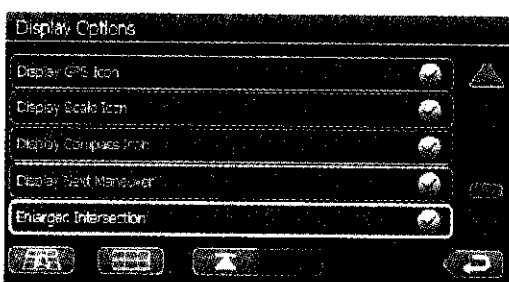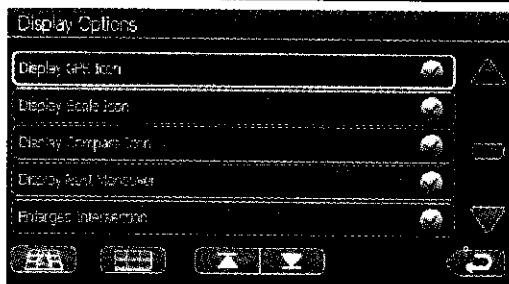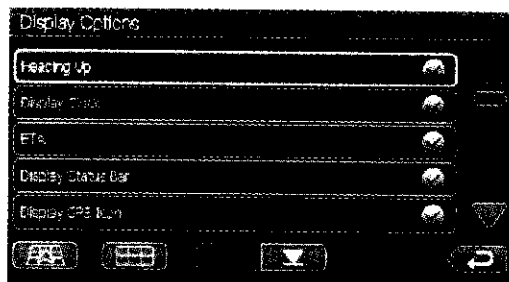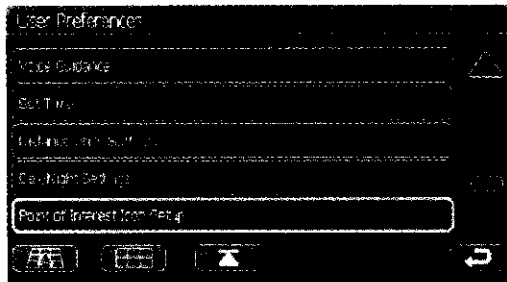

4. Press **Location Reset** to set up your location preferences. Select the item, you would like to reset from pop up screen options.
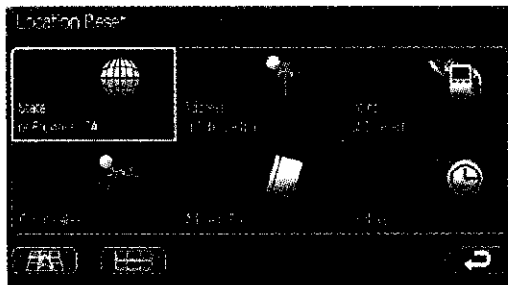
5. Press **System** button. The following screen will pop up.
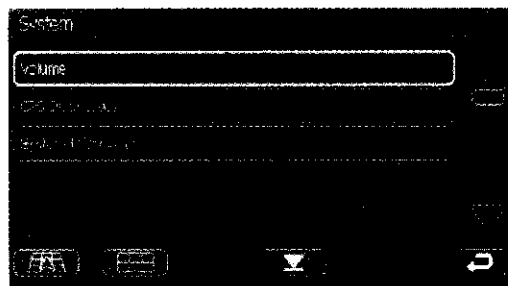
• Select the **Volume** mode. The popup screen will allow to mute or turn on the system sound.
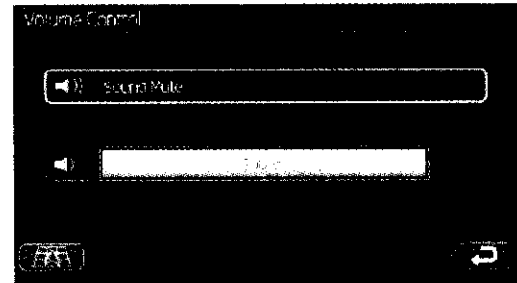
• Select the **GPS Diagnostics** mode. The information about current GPS condition will be displayed on poup screen.

• Select the **System Information** mode. The information about your navigation system will be displayed on pop up screen.
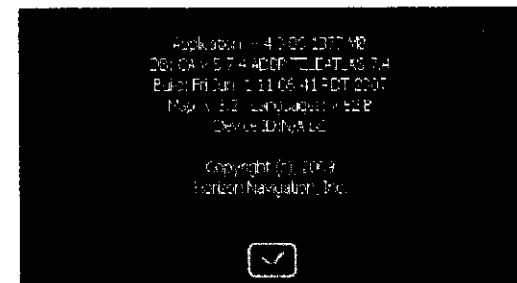
Office Adress Guidance and Setup

Press this button and the **Start Route** screen will pop up.
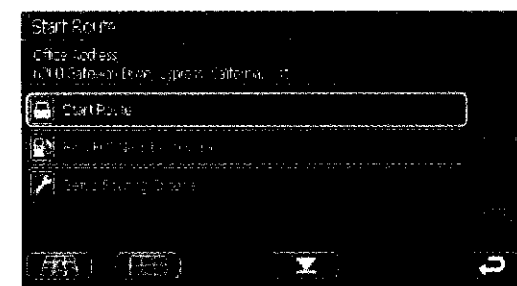
If the office address is not saved:
• Press the **Favorites** on the **Main Menu** screen.
• On pop up screen press **Edit Favorites** button. The following screen will pop up.
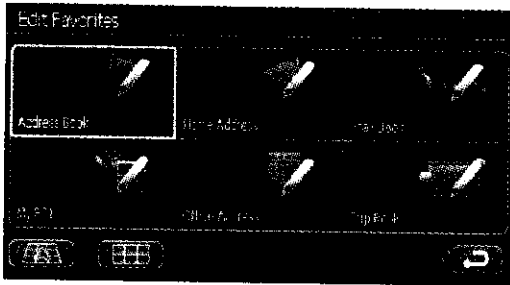
• Press the **Office Address** button. The **Set Office Address** screen will be displayed. Fill the information in highlighted items.
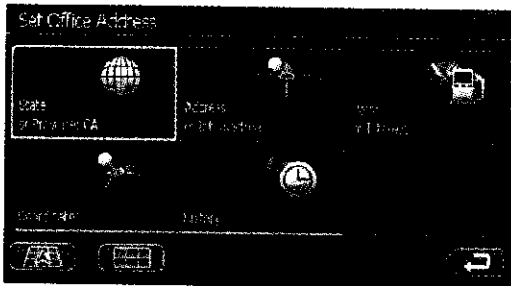
Trip Computer Readings and Resets

Press this button to display speed, trip, odometer reading, clock reading.
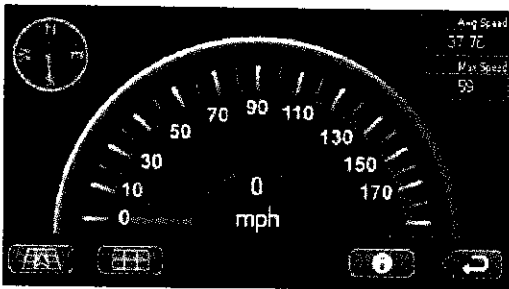
1. Touch the ⬛ button to display the trip informaton items.
   The following screen will pop up.
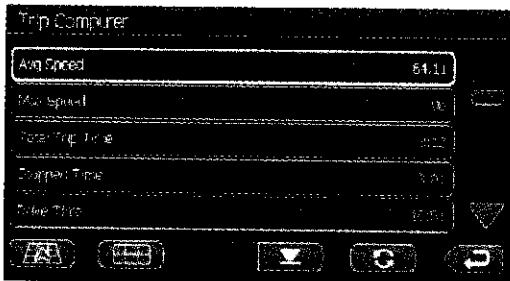
Touch the arrow keys down or up the list or page to display more listed items.
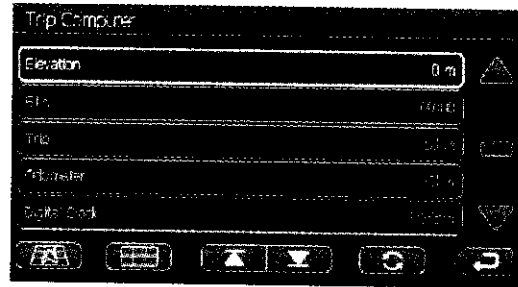
2. Select the item from dispayed list by touching it.
3. Reset the displayed item by pressing the ⬛ reset key. The following screen will pop up.
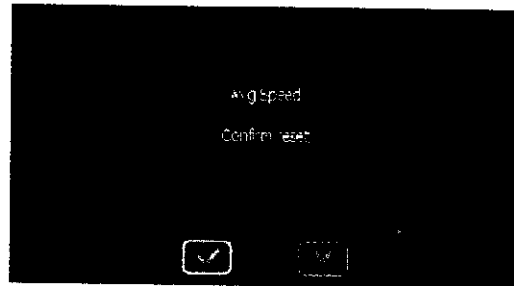
4. Touch the ⬛ check button to accept, or ⬛ cancell button to return back to Trip Computer screen.

iPod/iPhone Operations

iPod/iPhones 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-723) separately sold.

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 iPod's buttons are disabled for operation in the Music mode.*
  In the Video mode, do not operate the iPod's buttons.
* *When in the iPod mode, a special iPod/iPhone control screen is displayed different from the main screens for other modes.*
* *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.*
* *The iPod/iPhone is used with the equalizer function turned OFF.*
* *Set the iPod/iPhone's language setting 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 iPod/iPhone's internal battery has run down, this function may not operate correctly. You must connect the iPod/iPhone after charging the battery if it has run down.

Selecting the iPod mode

1. Connect your iPod/iPhone to the USB connector. The system will automatically detect the connected device and change to the iPod mode. The iPod icon is displayed on the Main Menu screen.
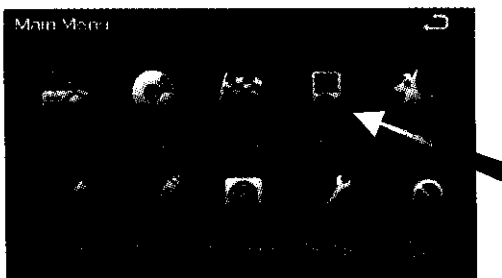
The playback starts after a while, from where the iPod/iPhone has been paused.
* **When a iPod/iPhone is already connected**
  Touch the **[USB]** key on the Main Menu screen. The system changes to the (USB) iPod mode, and starts playback from the previous position.

Controlling the iPod/iPhone

Operation keys
* iPod audio mode screen

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

[▣] Video key
* Switches to the screen of which the video output from the iPod/iPhone is displayed.
Note:
* *Note that not all iPod/iPhone devices are compatible to output video to this unit.*

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iPod/iPhone Operations

[⊃C] Shuffle key
- Use to switch the shuffle mode on or off. When enabled, this function performs playback of tracks in random order, regardless of the order in which they are recorded.

[I I] Play/Pause key
- Use to control playback and pause.
  1. Touch the key during playback. Playback pauses.
  2. To resume playback touck the key again.

[ ] EQ button
- Use to enter Audio Menu to set.

[⋮⋮] Keyboard button
- Use to input number to select the track.

[ ] Repeat button
- Use to repeat the selected track.

Skipping a track (searching)

1. Press the [►►I] or [I◄◄] button during playback. Tracks are skipped, as many times as the button is pressed, and playback starts.
   - Pressing the [►►I] button starts playback from the beginning of the next track.
   - Pressing the [I◄◄] button starts playback from the beginning of the current track. When this button is pressed again within about 2 seconds, playback starts from the beginning of the previous track.

Fast forward and fast backward playback

Press and hold the [►►I] or [I◄◄] buttons on the menu display for fast forward or fast reverse. The first press will advance the music at 2x speed. Following presses will increase the speed to 4x, 8x, and 16x.
Release the button to resume normal playback.

Selecting a list item from a list screen

1. Touch the display list icon in the iPod selection screen.
2. Touch a desired list item on the screen to display the corresponding list of tracks.
   - Use the [▲] and [▼] keys to scroll the list.
3. Touch the desired track name on the list to play back.
   - Use the [▲] and [▼] keys to scroll the list.

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 showing them on the display of this unit (and the rear monitor if connected).
Note:
- *Do not connect the iPod/iPhone to this unit when a Video Playlists item is selected on the iPod/iPhone.*
1. Touch the [ ] video key on the iPod audio menu screen. The iPod play video screen is displayed.

2. Select the type of video, you would like to be played, by touching it on the right side of the menu. The video playback will start.
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.

3. To stop the video play, touch the screen. iPod play video menu will be displayed.
4. Touch the [♫] audio button (1) to return to the iPod menu.
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.*

USB Operations

This system can play audio files (MP3/WMA/AAC) 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 can not be played.*

Notes on using USB memories
- **General notes**
  - •When no data is present, the message "NO FILE" will be displayed.
  - •The USB memory is used with the equalizer function turned OFF.

- **Notes on the MP3/WMA/AAC files**
  - •This system can play the MP3/WMA/AAC files stored in the USB memory.
  - •This system cannot play DivX files stored in the USB memory.
  - •For AAC files, this system supports only the MPEG4 Audio files encoded by the iTunes.
  - •Set the Sampling Frequency to:
    For MP3 files:
    - MPEG1 Layer3: 32, 44.1, or 48 kHz
    - MPEG2 Layer3: 16, 22.05, or 24 kHz
    - MPEG2.5 Layer3: 8, 11.025, or 12 kHz
    For WMA files: 32, 44.1, or 48 kHz
    For AAC files: 44.1 or 48 kHz
  - •Set the Bit Rate to:
    For MP3 files:
    - MPEG1 Layer3: 32 to 320 kbps (VBR)
    - MPEG2 Layer3: 16 to 160 kbps (VBR)
    - MPEG2.5 Layer3: 16 to 160 kbps (VBR)
    For WMA files: 32,48, 64, 80, 96, 128, 160, or 192 kbps
    For AAC files: 16 to 320 kbps (VBR)
  - •Add the following file extension using single byte characters:
    For MP3 files: ".MP3" or ".mp3"
    For WMA files: ".WMA" or ".wma"
    For AAC files: ".M4A" or ".m4a"

- **Notes on the folder structure**
  - •The folder hierarchy must be within 8 hierarchical levels. Otherwise, playback will be impossible.
  - •The maximum allowable number of folders is 512 (including root directory and folders with no MP3/WMA/AAC file).
  - •The maximum allowable number of files in a folder is 255.
  - •You can store the MP3 files, WMA files, and AAC files together in a folder.

- **Notes on the Tag titles**
  The limitations on the Tag titles are same as those in the MP3/WMA/AAC modes.

- **Folder representation in the folder list**
  The limitations on the folder representation are same as those in the MP3/WMA/AAC modes.

Selecting the USB Memory mode

Connect your USB memory to the USB connector. The system will automatically detect the connected device, and change to the USB mode (USB Memory mode), and start playback after a while. If you reconnect the same device that you disconnected last, the system will play back where it left off.

•When an USB memory is already connected
Touch the **[USB]** key to select the USB in a Main Menu mode.
The system changes to the USB mode (Mediai-USB mode), and starts playback from the previous position.
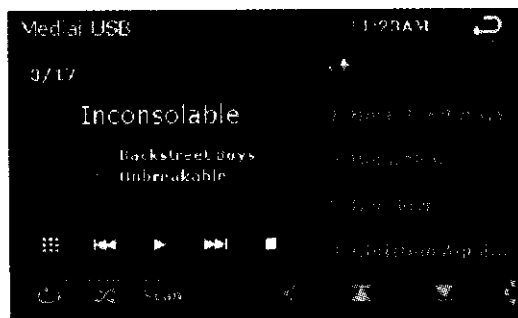
Playing back files in the USB memory

The operations in the USB Memory mode are same as those in the MP3/WMA/AAC modes. See "Listening to a CD" for details.
Note:
When performing the fast forward or fast backward function, the playback speed will become 10-time faster. For the VBR files, it may differ depending on the file.

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AUX In / AV In Operations

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

> ⚠ **WARNING**
>
> **For your safety, the driver should not watch the VTR, etc. or operate the controls while driving. Please note that watching and operating the VTR, etc. while driving are prohibited by law in some countries.**

NOTE:

For your safety, the unit has a safety function, which turns off the picture when car is moving, so only the audio can be heard. The picture can be only watched, when the car is stopped and parking brake is applied.

Switching to AUX IN / AV IN mode

Press **[AUX IN]** or **[AV IN]** button on Main Menu to select desired mode (when unit is reading). The LCD will display the external video. The screen will dispaly "No Video" menu, if there is no video signal. You cannot directly control external devices connected to the AUX IN or AV IN input.
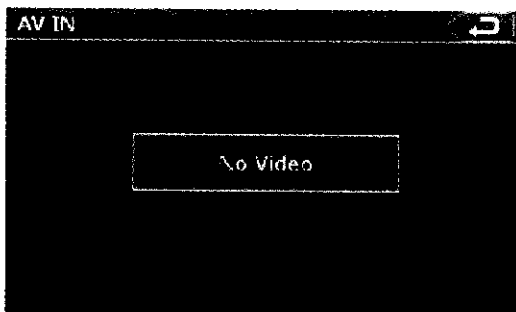
Camera In Operations

Switching to Camera mode

Press **[Camera]** button on Main Menu to select desired mode (when unit is reading). The LCD will display the external video. The screen will dispaly "No Video" menu, if there is no video signal. Press [◁] back button to return to the Main Menu.

When the video signal is displayed, press right top corner to return to the Main Menu.
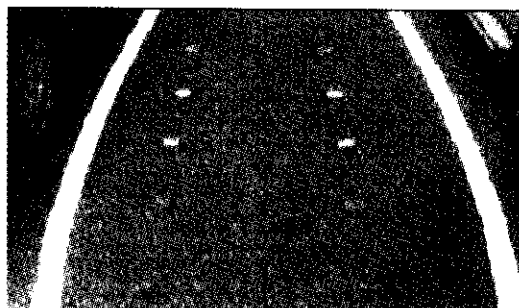
Setup Operations

Press **[Setup]** button on the Main Menu screen. The Setup menu screen will be displayed.

General Setup Menu
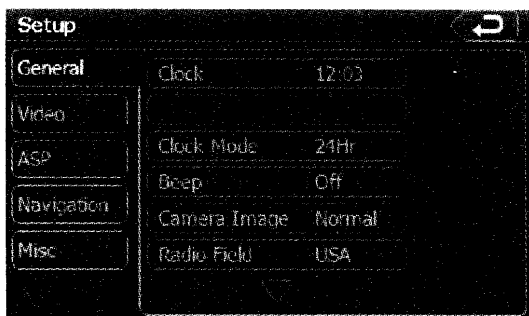
Clock: Touch the button to set the clock.

AM/PM: Touch the button to change AM or PM; 12 hours mode to 24 hours mode.

Beep: The function of it is to choose the Beep voice on or off.

Camera Image: The Function of it is to choose the mode of camera image normal or mirror.

Radio Field: The function of it is to choose the radio mode in the country you are. It's contain USA, Europe, S. America, Other.
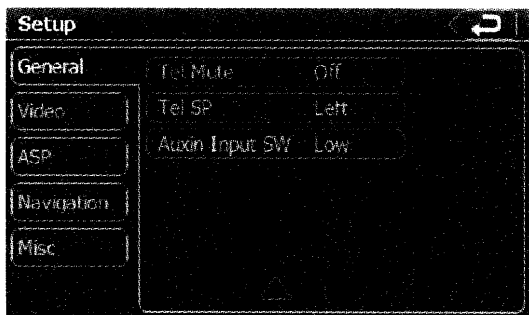
Tel Mute: The function of it is to set the Bluetooth ready on or off .

Tel SP: The function of it is to set the speaker of the Bluetooth ready front left or front right.

Auxin Input SW: The function of it is to choose the auxin input switch, including Low, Mid, High.

Video Setup Menu

This menu includes: TV Shape; Aux IN; Brightness.
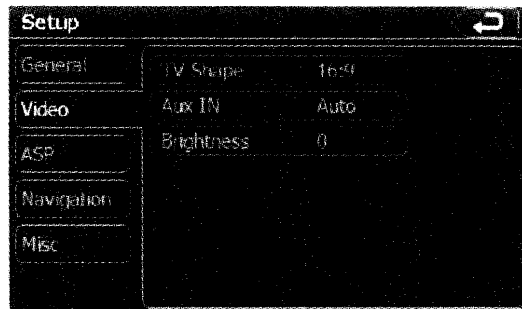
TV Shape: The function of it is to choose the screen area shape - 4:3 or 16:9.

Aux IN: The function of it is to choose Aux In format. It contains AUTO, PAL, NTSC.

Brightness: Set brightness value from 0 to 20.

ASP Setup Menu

This menu includes: Bass Freq; Treble Freq; Sub Filter; Bass Q-Factor.
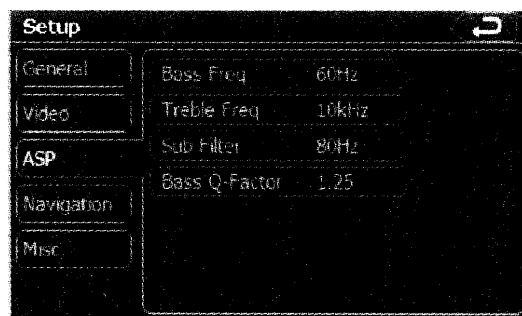
Bass Freq: Choose the desired bass frequency. 60Hz, 80Hz, 100Hz, 200Hz

Treble Freq: Choose the desired treble frequency 10KHz/12.5KHz/1 5KHz/ 17.5KHz.

Sub Filter: Choose the desired Sub Filter frequency: 80Hz/120Hz/160Hz.

Bass Q-Factor: Choose the Bass Q-Factor:1.0/1.25/1.5/2.0.

Navigation Setup Menu

This menu includes: GPS Time, Time Zone, DST
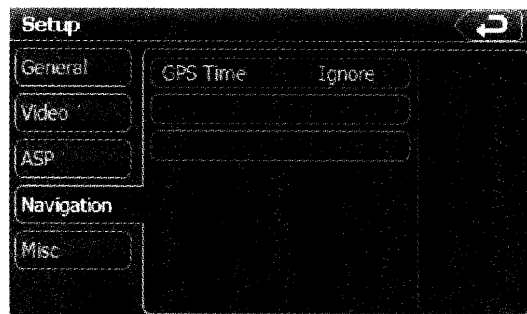
Setup Operations

GPS Time: Use this function of it is to synchronize the GPS time or not. It contains two choices: Ignore and Sync.

Time Zone: Choose the desired Time Zone: NTF/Atlabtic/Eastern/Central/ Mountain/Pacific/Alaska.

DST: Use this function to set Daylight Saving Time on or off.

Misc Set Up

This menu include: TS Calibrate; Set Password; Parental control.

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

Set password: The function of it is to set the password of the child lock.

Parental control: The function of it is to set the rating of the age. It contains Kid Saf/G/PG/PG- 13/PG-R/R/ NC- 17/Adult.

Software Update: Choose the function to update the software.

NAV Update: Choose the function to update the NAV software.

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

DVD Region: Choose DVD region.

Parking Det.: The function of it is to select parking det. mode. Select: Ignore, Level and Seq.

Macrovision: The function of it is to select macrovision ON or OFF.

Phone Menu

If you receive a phone call and the Bluetooth is On, the screen will display Phone Interrupt Menu.

1. Press the right top corner to go back to Main Menu.
2. Touch **[Setup]** button to set Tel Mute and Tel SP.

EQ Set Up
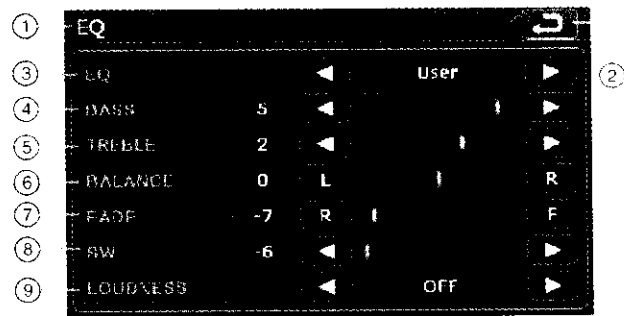
No.	Button Name	Function
1	Title Name	Display title name
2	Back Button	Close the EQ menu
3	EQ	Set EQ mode
4	BASS	Set bass value
5	TREBLE	Set treble value
6	BALANCE	Set balance value
7	FADER	Set fader value
8	SW	Set Sub Woofer value
9	LOUDNESS	Set loudness on or off

Monitor OFF Menu

Press Monitor OFF icon on Main Menu, it will show "Standing By". Touch the screen to turn the monitor ON. Tuch the screen again to turn it OFF.

8. TROUBLESHOOTING

GENERAL

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 store of purchase.
Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Turn off the power and open the operation panel. Press the reset button with a thin rod. **Note:** *When the Reset button is pressed, turn off the ACC power.* * 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 batteries of the remote control unit are dead or there is no battery in the remote control unit.	Check the batteries of the remote control unit.

DVD PLAYER

Disc cannot be loaded.	Another disc is already loaded.	Eject the disc before loading the new one.
	There is a foreign matter already in place.	Eject the foreign matter forcibly.
Sound skips or is noisy.	Compact disc is dirty.	Clean the compact disc with a soft cloth.
	Compact disc is heavily scratched or warped.	Replace with a compact disc with no scratches.
Sound is bad directly after power is turned on.	Water droplets 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.
The image is not displayed.	The parking brake is not engaged.	Check that the parking brake is engaged.
Disc cannot play with the display "**PARENTAL VIOLA-TION**" shown.	Feature exceeds set parental level.	Release the view limitation or change the parental level. See the subsection "Setting up the parental level"

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USB DEVICE

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/AAC file is stored in the USB device.	Store these files properly in the USB device.
Sound skips or is noisy.	MP3/WMA/AAC files are not encoded properly.	Use MP3/WMA/AAC files encoded properly.
The iPod/iPhone's video image 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.

9. ERROR DISPLAY

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

DVD PLAYER

BAD DISC	A disc is caught inside the CD 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.
WRONG REGION	Region code error	Eject the disc, and replace correct region code disc.

If an error display other than the ones described above appears, press the Reset button.
If the problem persists, turn off the power and consult your store of purchase.
* When the Reset button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.

10. SPECIFICATIONS

FM Tuner
Frequency Range: 87.9 MHz to 107.9 MHz
Usable Sensitivity: 8 dBµV
50dB Quieting Sensitivity: 14 dBµV
Alternate Channel Selectivity: 70 dB
Stereo Separation: 25 dB (1 kHz)
Frequency Response: 30 Hz to 15kHz

AM Tuner
Frequency Range: 530 kHz to 1710 kHz
Usable Sensitivity: 28 dBµV

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 dbA (1W Ref)
Dynamic Range: 95 dB (1 kHz)
Distortion: 0.05%
Video system: NTSC
Digital Versatile Disc System

Navigation
Memory: 2GB Flash Memory
Upgrade Platform: USB
3D Display Mode: 3D maps, 3D landmarks, 3D icons
User Mode: Simple mode, Advanced mode
TTS (Text to Speech):
Street Announcements
Find Menu: ADDRESS, POI, HISTORY, COORDINATES, FAVORITES, PLAN ON MAP
POI: 12 MILLION
Route Calculation: FAST, SHORT, ECONOMICAL, EASY
Vehicle Selection: CAR, TAXI, BUS
Road Selection: UNPAVED, PERMIT NEEDED MOTOR WAYS, TOLL, FERRIES, BORDER CROSSING, CARPOOL LANES

Audio/Video Input
Audio input voltage: 300 µVrµs (low)
Audio input voltage: 600 µVrµs (med)
Audio input voltage: 950 µVrµs (high)
Video input voltage: 1.0Vp-p @75Ω

Audio/Video output:
Audio output impedance: 10kΩ
Video output voltage: 1.0Vp-p @75Ω

LCD Monitor
NX409 Screen Size: 6.5" wide type
Pixels: 280,800
Resolution: 1200 x 234
NZ409 Screen Size: 7" wide type
Pixels: 336,960
Resolution: 1440x234

General
Power source voltage:
14.4 V DC (10.8 to 15.6 V allowable)
Ground: Negative
Current consumption: 4.0 A (1 W)
Auto Antenna Rated Current: 500 mA less
NX409 Dimensions of the Main Unit:
7" (178mm) Width, 3-15/16" (100mm) Height, 7" (179mm) Depth
NX409 Weight of the Main Unit: 3.5 kG
NZ409 Dimensions of the Main Unit:
7" (178mm) Width, 2" (50 mm) Height, 7.5" (191.5mm) Depth
NZ409 Weight of the Main Unit: 3.5 kG
Dimensions of the Remote Control Unit:
2-1/8" (54mm) Width, 9/16" (14mm) Height 4-13/16" (122 mm) Depth
Weight of the Remote Control Unit:
50 gramms (including battery)

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

Power Output:
18 W RMS x 4 Channels at 4 Ω and 1% THD+N
Signal to Noise Ratio:
95 dBA (reference: 1 W into 4 Ω)

INSTALLATION /WIRE CONNECTION GUIDE

CONTENTS

1. Before Starting

1. This set is exclusively for use in cars with a negative ground 12V power supply.
2. Read these instructions carefully.
3. Be sure to disconnect the battery" "terminal before starting. This is to prevent short circuit: during installation. (Figure 1)

---Car battery
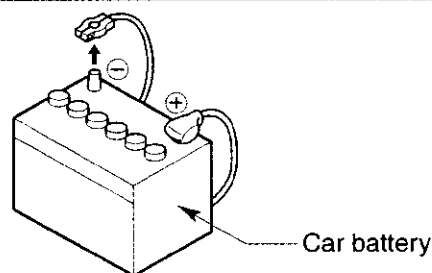
Figure 1

2. Package Contents

Main unit................................. 1	2DIN Trim ring 1	
GPS antenna............................ 1	2DIN trim ring 200mm wide 1	
SMK wiring harness 1	Back Strap 1	
AV cable 1	Flush mount bolts 4	
USB extending cable 1	Cap bolts 4	
Remote control unit 1	Rear radio stud and stopper 1	
Battery (CR2025) 1	Cleaning cloth........................... 1	
(Installed in remote control)	Warranty Card 1	

3. General Cautions

1. Do not open the case. There are no user- serviceable parts inside. If you drop anything into the unit during installation, consult your dealer or an authorized Clarion service center.

2. Use a soft, dry cloth to clean the case. Never use a rough cloth, thinner, benzine, or alcohol etc. For tough dirt, apply a little cold or warm water to a soft cloth and wipe off the dirt gently.

4. Cautions on Installation

1. Prepare all articles necessary for installing the source unit before starting.
2. This model features an operation panel that slides forward.
   On some types of cars, the operation panel may make contact with the dashboard or gearshift lever, in which cause it cannot be installed. Before installing, check that the unit will not hamper operation of the gearshift lever or obstruct your view before selecting the installation location. (Figure 2)

NZ409

Dashboard

Gearshift lever
(Check that it does not touch the LCD)

Shift lever
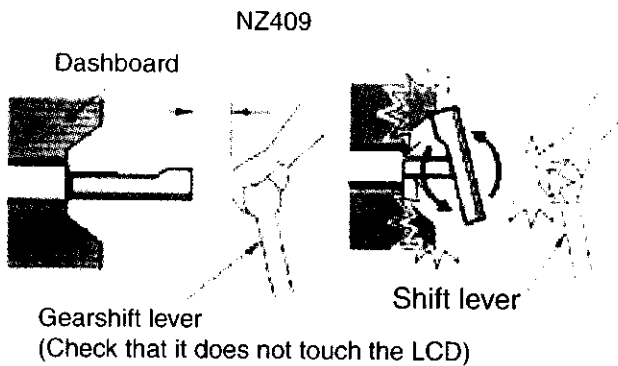
Figure 2

3. Install the unit within 30° of the horizontal plane. (Figure 3)

Max 30°
NX409

Max 30°
NZ409
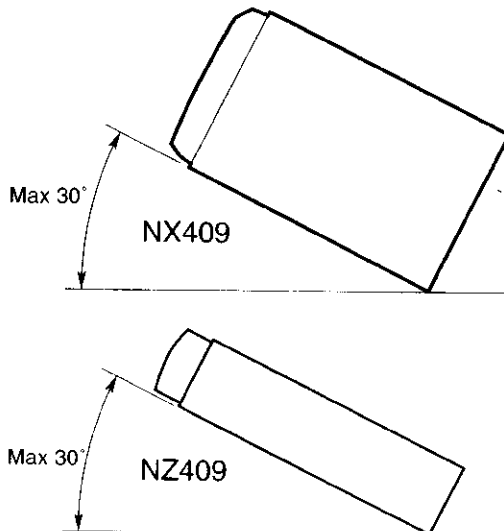
Figure 3

4. If you have to do any work on the car body, such as drilling holes, consult your car dealer before hand.
5. Use the enclosed screws for installation. Using other screws can cause damage. (Figure 4)

Chassis   Chassis

Damage

Max. 8 mm (M5 screw)
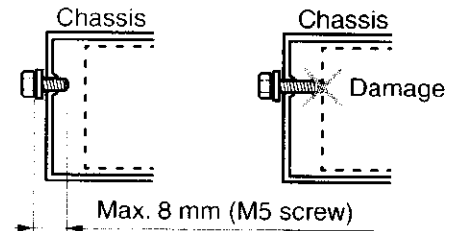
Figure 4

5. Installing the Main Unit

This unit is designed for fixed installation in the dashboard.

1. When installing the main unit in NISSAN vehicles, use the parts attached to the unit and follow the instructions in Figure 6. When installing the main unit in TOYOTA vehicles, use the parts attached to the vehicle and follow the instructions in Figure 7.

2. Wire as shown in Section 7.
3. Reassemble and secure the unit in the dashboard and set the face panel and center panel.

Mounting Screw Holes (Side View of the Main Unit)

For NISSAN vehicle
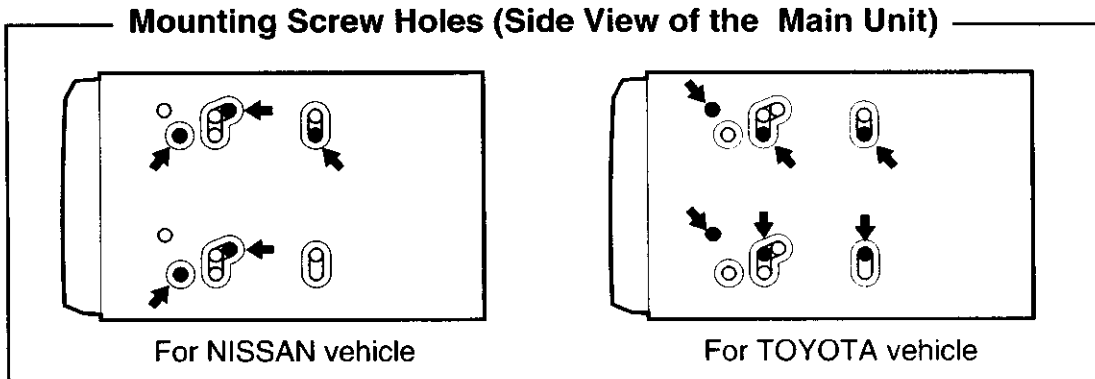
For TOYOTA vehicle

Figure 5

Installing the Main Unit in NISSAN Vehicle

Main Unit

6- Spacer (thickness: 1mm)

Finisher (*1)

Mounting bracket
(1 pair for the left and right sides)

6- Flat head screws
(M5x8)
(Attached to the main unit)
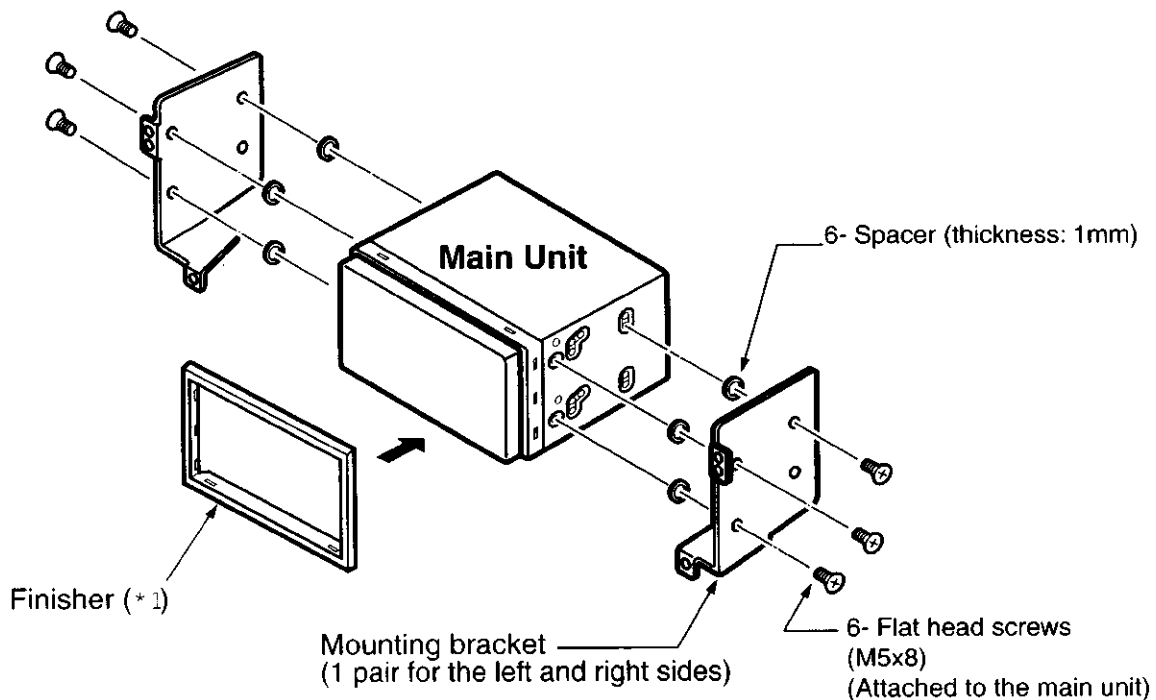
Figure 6

Note:

*1: Position the face panel with its wide edge at the bottom. Fit the edge into the groove of the main

Installing the Main Unit in TOYOTA Vehicle

Install by using parts attached to the vehicle. (Screws marked ★ are attached to the vehicle.)

Main Unit

8- Hexagonal screws (M5x8)

Center Panel (*2)

*3

Mounting bracket (1 pair for the left and right sides)
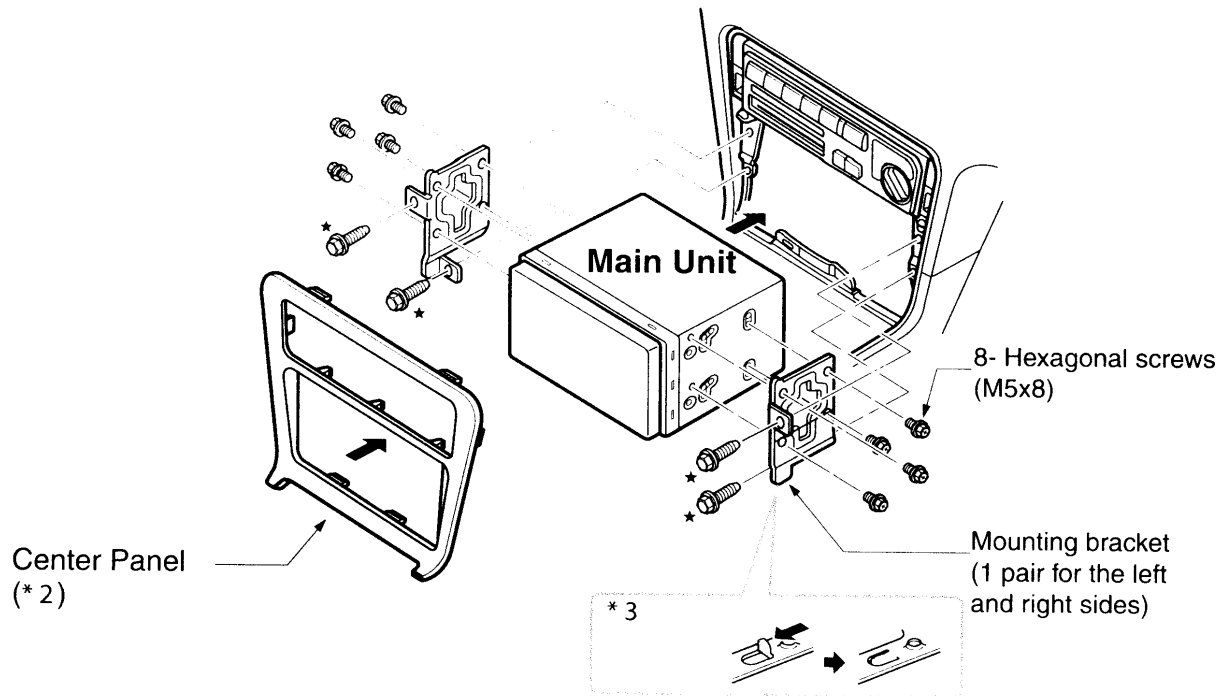
Figure 7

*2 Some panel openings are too small for the unit depending on the vehicle type and model. In such a case, trim the upper and lower sides of the panel frame by about 0.5 to 1.5 mm so the unit can be inserted smoothly.

*3 If a hook on the installation bracket interferes with the unit, bend and flatten it with a nipper or similar tool.

Typical Mounting Brackets

Example 1   **Example 2**   **Example 3**

Affix the screws to the ● marks.
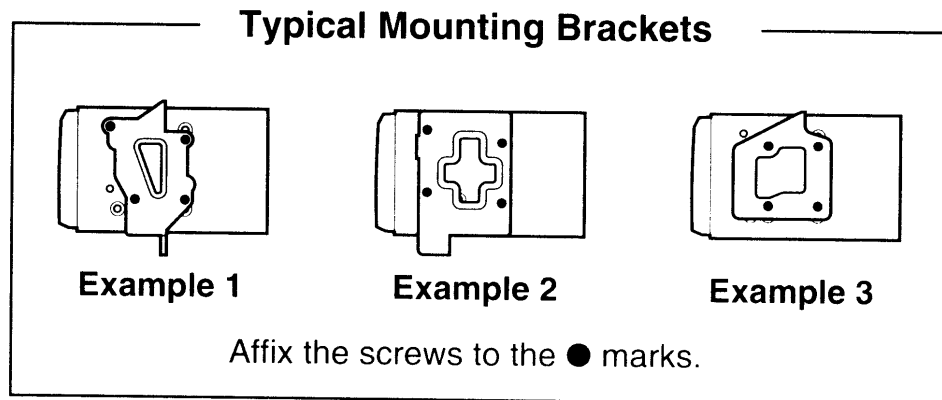
Vehicles other than NISSAN and TOYOTA
In some cases the center panel may require modification. (Trimming, filing, etc.)
• Removing the Main Unit
When the main unit is to be removed, disassemble it in the reverse of the order in "INSTALLING THE MAIN UNIT".

NX409/NZ409

6. Cautions on Wiring

1. Be sure to turn the power off before wiring.
2. Be particularly careful where you route the wires. Keep them well away from the engine, and exhaust pipe, etc. Heat may damage the wires.
3. If the fuse should blow, check to see if the wiring is correct.
   If a fuse is blown, replace it with a new one of the same amperage rating as the original (15A FUSE).
4. To replace the fuse, remove the old fuse on the back of the unit and insert the new one. (Figure 8)

NOTE:

There are various types of fuse holder. Do not let the battery side touch other metal parts.

⚠CAUTION

After the connection, fix the cord by a clamp or insulation tape for protection.

Fuse (15A FUSE)

Fuse holder
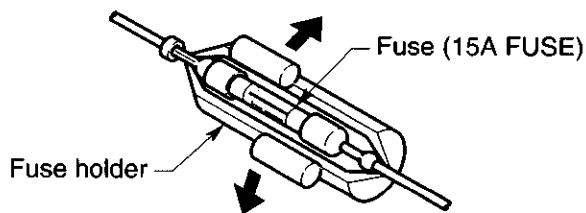
Figure 8

7. Wire Connections

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.*

NX409

GPS

Radio Antenna Jack

Gray — Steering Wheel Remote Control Terminal

Black — Yellow — Monitor

Black — Sirius — Connector Cable

Gray
- Red — Line Out Front R
- White — Line Out Front L

Black
- Red — Line Out Rear R
- White — Line Out Rear L

4-Channel Amplifier

Purple
- White — Subwoofer 1
- Red — Subwoofer 2

iPod/iPhone

Blue
- Red — BTL370/R
- White — BTL370/L

Black
- Yellow — Video
- Red — Audio/L
Red
- White — Audio/R

Connector Cable (CCA-723)

Black — Yellow — Video Out Camera

GPS

Radio Antenna Jack

SIRIUS
SATELLITE RADIO
SC-C1

Sirius

Connector
Cable

iPod/iPhone

Refer to
page 54

Black	Yellow	Video
Red	White	Audio/L
	Red	Audio/R

Yellow
White
Red

Connector Cable (CCA-723)

Purple	Red	Line Out Subwoofer
	White	
Black	Red	Line Out Rear R
	White	Line Out Rear L
Gray	Red	Line Out Front R
	White	Line Out Front L

4-Channel Amplifier

Black	Yellow	Video Out

Monitor

	Yellow	Video Out Camera
Blue	White	BTL370 /L
	Red	BTL370 /R
Black		Steering Wheel Remote Control Terminal

Yellow — +12V main power

15A

Black — Ground

Purple — Rear right +

Purple/Black — Rear right -

Red — +12V accessory

Gray — Front right +

Gray/Black — Front right -

White — Front left +

White/Black — Front left -

Green — Rear left +

Green/Black — Rear left -

Blue/White — Amplifier turn-on cord

Orange/White — Illumination

Blue — Auto antenna

Brown — Phone interrupt (*1)

Grass-green — Parking brake cord

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

See next page for how to connect the parking brake cord.

NX409/NZ409

Connecting the parking brake cord

Connect the cord to parking brake lamp ground in the meter panel.

Note:

- *Connecting the parking brake cord to lamp ground allows you to watch iPod/iPhone video/DVD video/AV input when the parking brake is engaged.*
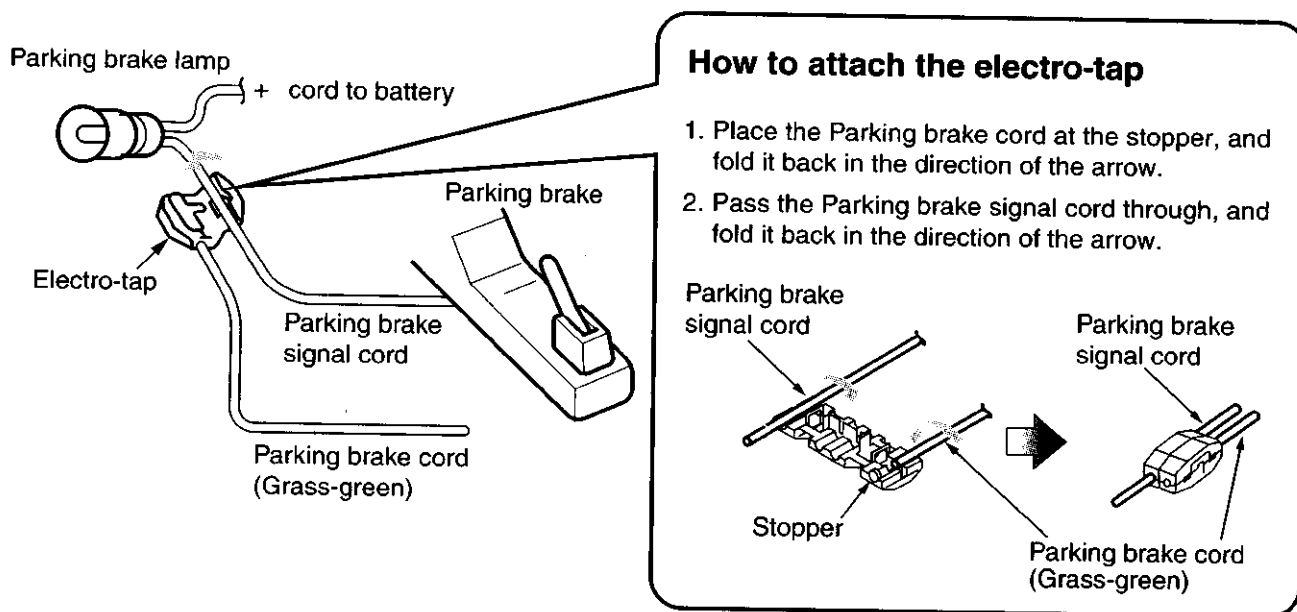- *When the parking brake cord is not connected, the monitor will not show any video sources.*
- *If "AUDIO ONLY" appears on the screen just after turning on the ACC power of the car, release the parking brake while confirming safety, and then engage the parking brake again.*

Parking brake lamp

+ cord to battery

Parking brake

Electro-tap

Parking brake signal cord

Parking brake cord
(Grass-green)

How to attach the electro-tap

1. Place the Parking brake cord at the stopper, and fold it back in the direction of the arrow.
2. Pass the Parking brake signal cord through, and fold it back in the direction of the arrow.

Parking brake signal cord

Parking brake signal cord

Stopper

Parking brake cord
(Grass-green)

Connecting the accessories

- **Connecting to the external amplifier**
  The external amplifiers can be connected to the 6 channel RCA output connections.
  Ensure that the connectors are not grounded or shorted to prevent damage to the unit.

- **Connecting to iPod/iPhone device**
  The iPod/iPhone device can be connected to dedicated iPod/iPhone connection on the main unit. For detailed information, refer to the instruction sheet or manual for the iPod/iPhone cable.

Note:

- *This unit may not support all functions of all iPod/iPhone devices*
- *The iPod/ iPhone connection will charge your iPod/iPhone unless the iPod/iPhone battery is completely depleted.*
  If the specified cord of the cellular phone is connected to the phone interrupt cord of the main unit, the audio mute is activated when cellular phone in use.

- **Connecting to Sirius Satellite Radio Receiver**
  When Sirius Satellite Radio Receiver is to be connected, use the dedicated connector.
  For detailed information,refer to the instruction manual of the Sirius Satellite Radio Receiver.

clarion

CLARION 1 YEAR LIMITED WARRANTY
For USA and Canada only

This Clarion product purchased from an authorized Clarion dealer are warranted against all defects in materials and workmanship for a period of one (1) year from the date of original purchase, when purchased from AND installed by an authorized Clarion dealer.

All Clarion cables, wires and other accessories if purchased from an authorized Clarion dealer are warranted against all defects in materials and workmanship for ninety (90) days from the date of original purchase.

ALL PURCHASES OF CLARION PRODUCTS FROM NON-AUTHORIZED CLARION DEALERS ARE SUBJECT TO FURTHER WARRANTY RESTRICTIONS AS DESCRIBED BELOW.

The conditions of this Limited Warranty and the extent of responsibility of Clarion Corporation of America ("Clarion") under this Limited Warranty are as follows :

1. PROOF OF DATE OF PURCHASE FROM AN AUTHORIZED CLARION DEALER WILL BE REQUIRED FOR WARRANTY SERVICE OF THIS PRODUCT. CENTERS MAY BE OBTAINED BY CONTACTING CLARION AT THE ADDRESS LISTED BELOW.

2. This Limited Warranty will become void if service performed by anyone other than an approved Clarion Warranty Service Center results in damage to the product.

3. This Limited Warranty does not apply to any product which has been subject to misuse, neglect or accident, or which has had the serial number altered, defaced or removed, or which has been connected, installed, adjusted or repaired, other than in accordance with the instructions furnished by Clarion.

4. This Limited Warranty does not cover car static or other electrical interferences, tape head or laser pick-up cleaning or adjustments, or labor costs for the removal or reinstallation of the unit for repair.

5. The sole responsibility of Clarion under this Limited Warranty shall be limited to the repair of the product or replacement of the product, at the sole discretion of Clarion.

6. Product must be shipped in its original carton or equivalent carton, fully insured, with shipping charges prepaid. Clarion will not assume any responsibility for any loss or damage incurred in shipping.

7. CLARION PRODUCTS PURCHASED FROM A SOURCE OTHER THAN AN AUTHORIZED CLARION DEALER, INCLUDING ANY AND ALL PURCHASES VIA THE INTERNET FROM A NON INTERNET AUTHORIZED CLARION DEALER, SHALL NOT BE COVERED BY ANY CLARION LIMITED WARRANTY TO THE EXTENT ALLOWED BY APPLICABLE LAW. IN THE EVENT AND TO THE EXTENT APPLICABLE LAW PROHIBITS ELIMINATION OF WARRANTIES UNDER THESE CIRCUMSTANCES, THE APPLICABLE LIMITED WARRANTY PERIOD SHALL BE DEEMED TO BE FIFTEEN (15) DAYS FROM THE DATE OF ORIGINAL PURCHASE.

8. ALL IMPLIED WARRANTIES EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW SHALL HAVE NO GREATER DURATION THAN THE WARRANTY PERIOD SET FORTH ABOVE. UNDER NO CIRCUMSTANCES SHALL CLARION BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT. BECAUSE SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR EXCLUSIONS OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

9. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

10. The laws of the State of California shall govern and control this Limited Warranty, its interpretation and enforcement.

11. Should you have any difficulties with the performance of this product during the warranty period, please call Clarion or visit our web site for a listing of Authorized Warranty Service Centers in your area. You may also contact Clarion Customer Service at the address listed below for any service help you may need with Clarion products.

In USA:
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Attn:Customer Service Manager
6200 Gateway Drive
Cypress, CA 90630
1-800-GO-CLARION
www.clarion.com

In Canada:
Clarion Canada Inc.
Warranty Service Center
2239 Winston Park Drive
Oakville, Ontario L6H 5R1
(905) 829-4600
www.clarion.com