



clarion®

Owner's manual & Installation manual

NX500 ***NZ500***



**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**





English

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.





English

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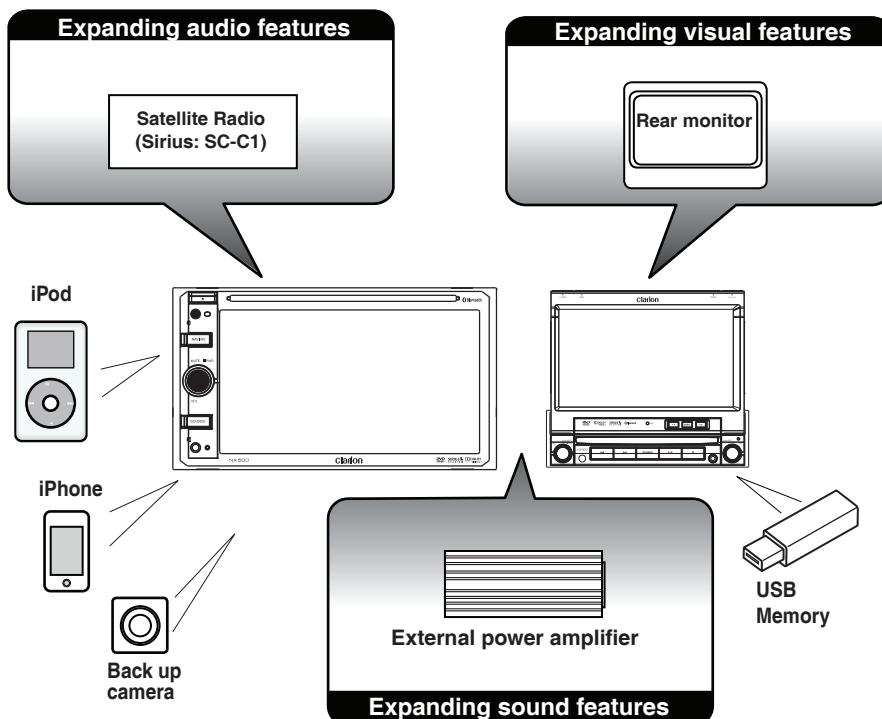
English

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



Expanding Systems



NOTE:

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



2. PRECAUTIONS

⚠ WARNING

English

- 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.



English

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.

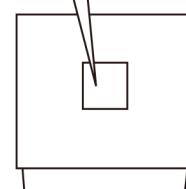
2. Driving on extremely bumpy roads which cause severe vibration may cause the sound to skip.

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**

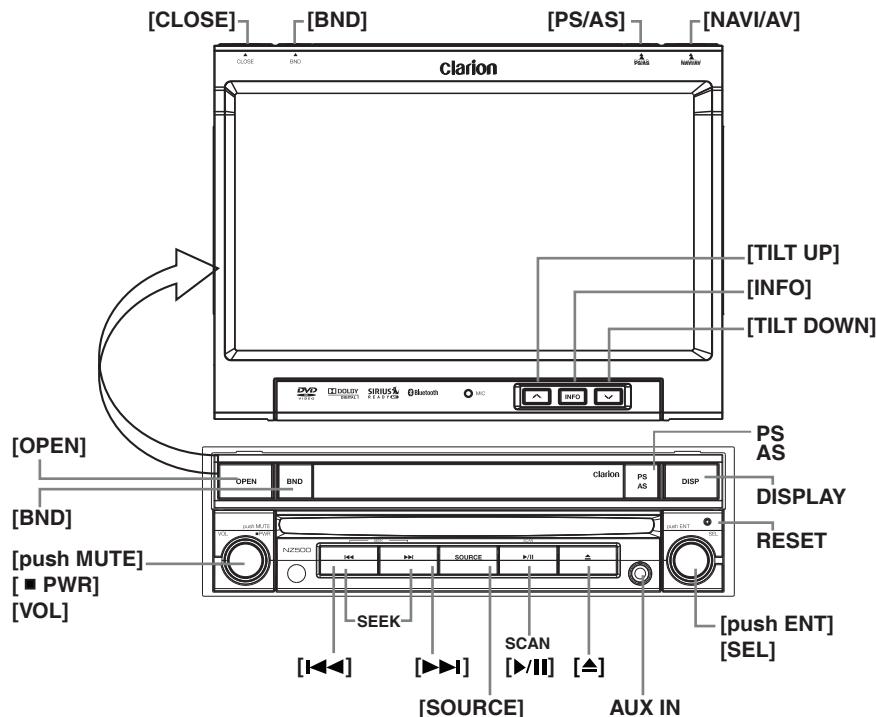
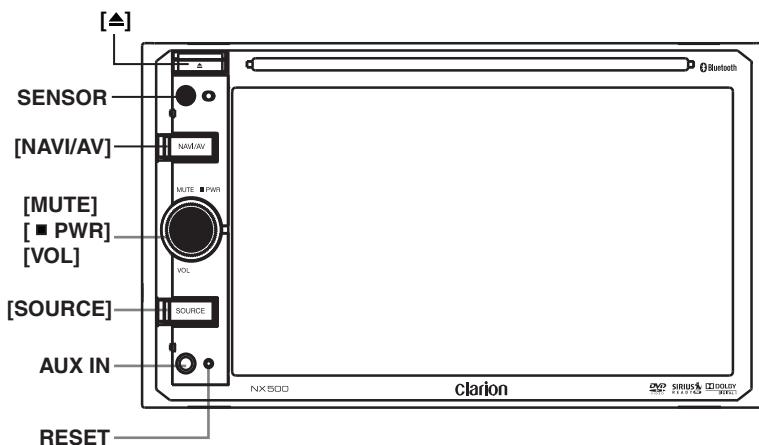
MODEL: NX500		clarion
12V GND FM 87.5-107 MHz		
Approved Operation in U.S. from Nov. 1994 (IC ID: 2002T21200, IBS #315,150) and 5.0MHz ISM license for limited mobility use.		
Model NX500 is a trademark of Clarion Corporation. "Clarion" and the shield logo are trademarks of Clarion Corporation. This product contains software developed by Clarion Corporation and its subsidiaries. The software is a trademark of Clarion Corporation and its subsidiaries.		
The device complies with Part 15 of the FCC rules. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.		
CLASS 1 LASER PRODUCT THIS PRODUCT COMPLIES WITH DHHS RULES IN 21 CFR CHAPTER I SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE CLARION CORPORATION 6000 GATESWAY DRIVE, CYPRESS, CALIFORNIA 90630, USA		
MANUFACTURED: <input type="text"/> MANUFACTURER: SKP SERIAL NO: <input type="text"/> MADE IN CHINA		





3. CONTROLS

Operational Panel





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.

[◀◀] [▶▶] 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 x2 ,4,8,16 step in CD, MP3/WMA and DVD video mode.
- Press and hold to fast forward or fast backward in iPod music.
- Press and hold to enter manual seek status in Tuner and Sirius radio mode, then press briefly to seek station by step.

[▶⏸] 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.

[▲] 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

- Rotate the button 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, Satellite, CD/DVD, iPod mode.
- Press one more time to display current time from any mode.

RESET Button

- Press this button to reset the unit.

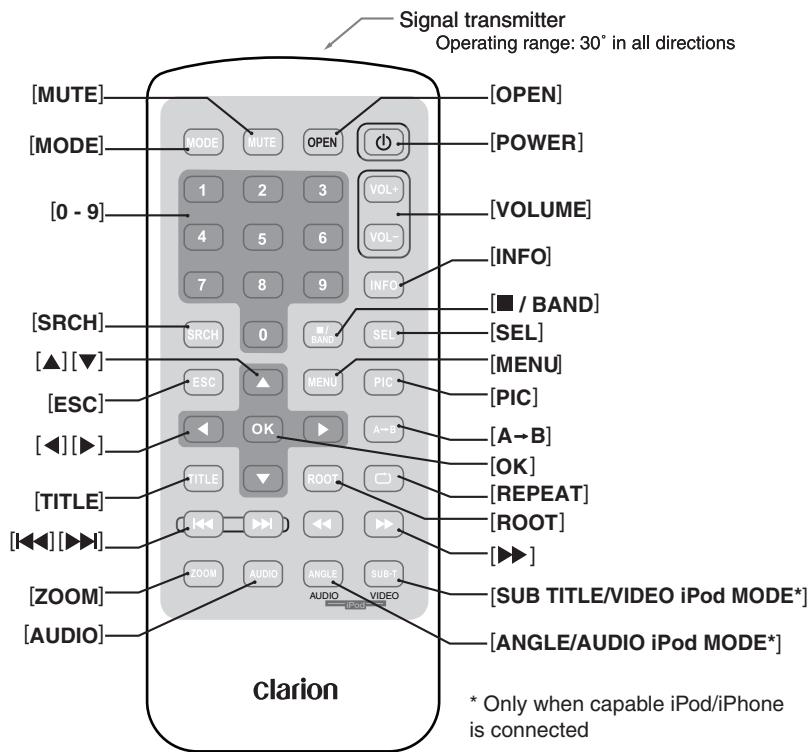
SENSOR

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



Remote Control

English



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 NX500 and NZ500.

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.

[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.

[◀◀], [▶▶] 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 through the page screens in the CD and MP3/WMA modes.



English

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 16x. 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 repeat 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.



English

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.

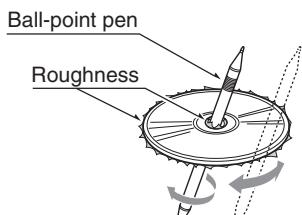




Handling Discs

Handling

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



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

Storage

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

Cleaning

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

On Discs

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

CAUTION

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



English

5. DVD VIDEO SYSTEM

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.

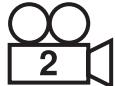
- The languages stored on the disc are indicated by the icon shown below.



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

