



clarion

Owner's Manual

VB475

1 DIN DVD/CD/AMFM RECEIVER





English

Thank you for purchasing this **Clarion** product.

- Please read this owner's manual in its entirety before operating this equipment.
- After reading this manual, keep it handy, such as in your glove compartment.
- Save your sales receipt. The warranty at the end of this manual and your sales receipt are essential for warranty service.

FCC Approval

The Clarion VB475 has been tested and found to comply within the limits of a Class B digital device, pursuant of Part 15 of the FCC rules. These limitations are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and uses radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

There is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to a radio or television reception, turn off the equipment and contact a local Clarion Dealer for assistance. Changes or modifications to this product not approved by the manufacturer will void the warranty and violate FCC Approval.

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1. FEATURES

Features

- Removable front panel with protective case for theft prevention.
- Dolby 4.2 channel sound effects (manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.)
- Types of supported discs: DVD-5, DVD-9, DVD-10, DVD-18, SVCD, DVCD, VCD, CD, MP3, MPEG4, etc.
- TV standards supported: NTSC, PAL or Auto
- Image aspect ratio: 4:3 or 16:9
- Audio output: 4.2CH
- Audio input: Stereo
- Disc playback functions: multiple angles, multiple dubbed languages, fast forward, fast backward, broken point auto memory
- AM/FM radio capabilities: stores 18 FM and 12 AM broadcasting stations; tunes automatically and manually



Manufactured under license from Dolby Laboratories.

“Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

2. PRECAUTIONS

Disc handling

- To keep a disc clean, do not touch the play side (non-label side).
- Do not scratch or bend discs.
- Do not attach sticky notes to or put tape on a disc.
- Do not attempt to play back a deformed disc.
- Keep discs away from direct sunlight and heat, such as dashboards and vehicle heaters; and from dirty, dusty and damp areas, such as vehicle seats.
- Store discs in a protective disc case.
- Before playback, wipe the disc outwards from the center with a clean cloth.

Operating

- Do not operate this product in ways other than those described in this manual. Failure to follow instructions may void the warranty.
- Do not make selections through the front panel or the remote while operating the





vehicle. You may cause an accident. Find a place to pull over and stop before you configure the player.

- Keep the volume lower than you might if listening at home to ensure safe driving.
- Do not use the player with the ignition off, which could drain the vehicle's battery.
- Parking in direct sunlight for several hours raises the temperature in the vehicle. If the internal temperature is extremely high (over 50 degrees Celsius), start the vehicle and let the interior cool down before you use the player.
- Before leaving the vehicle, eject the DVD disc and store it separately, away from direct sunlight. Heat and humidity can damage DVD discs causing them not to play.
- Do not operate the player using a voltage higher than DC 12V.

General

- Do not pour liquid into the player or poke foreign objects, such as coins, into the DVD drive slot. Water, humidity, and foreign objects may damage internal circuitry.
- Do not place screwdrivers or other metal objects near the player or disc.
- If the player becomes wet, turn off all power and ask your authorized Clarion Dealer to clean or service the unit.
- Do not drop the player. You may cause permanent damage.
- If the vehicle's battery dies or you disconnect the player from battery power, the contents of the player's memory will be lost and all options will return to their factory defaults.
- The player uses a Class 1 Laser and will emit a visible or invisible hazardous laser beam. Avoid looking directly at this beam.

Installation

Installation of mobile audio and video components requires experience with a variety of mechanical and electrical procedures. Although this manual provides general installation and operation instructions, it does not show the exact installation methods for your particular vehicle.

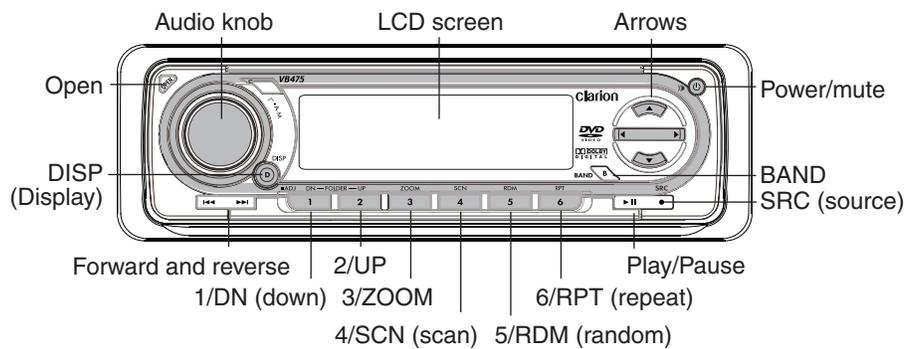
If you do not have the required knowledge, experience, and/or tools to successfully complete the installation, consult an authorized Clarion Dealer about professional installation options.

- Video playback requires the installation of a separate monitor, such as Clarion's OHM series monitors. The monitor must support both NTSC and PAL TV standards.
- Do not install a video monitor where the driver can be distracted by it. Such placement may cause a traffic accident and violate local regulations.
- The vehicle must have a 12V battery with negative grounding. Before installing it in a recreational vehicle, truck or bus, check the battery voltage.
- For optimal performance and operation, mount the player horizontally. Avoid mounting the player in a tilted position in excess of 15 degrees.



Maintenance

- When washing the vehicle, keep the player dry, including the speaker and any discs.
- Do not disassemble or modify this player. You may damage the player, void the warranty, and suffer electric shock. All warranty service should be performed by an authorized Clarion service center.

3. CONTROLS**Player with the front panel closed****Quick reference to controls**

- 1/DN (down) button** In radio mode, press to select the preset button 1. The station frequency displays on the LCD. Press and hold to store a radio frequency at button 1. In MP3 mode, press to page down a list of MP3 files.
- 2/UP button** In radio mode, press to select the preset button 2. The station frequency displays on the LCD. Press and hold to store a radio frequency at button 2. In MP3 mode, press to page up a list of MP3 files.
- 3/ZOOM button** In radio mode, press to select the preset button 3. The station frequency displays on the LCD. Press and hold to store a radio frequency at button 3. In DVD mode, press to zoom in.
- 4/SCN (scan) button** In radio mode, press to select the preset button 4. The station frequency displays on the LCD. Press and hold to store a radio frequency at button 4. In DVD, CD or MP3 modes, press to fast forward playback.



5/RDM (random) button In radio mode, press to select the preset button 5. The station frequency displays on the LCD. Press and hold to store a radio frequency at button 5. In DVD, CD or MP3 modes, press to play back chapters, tracks or files randomly.

6/RPT (repeat) button In radio mode, press to select the preset button 6. The station frequency displays on the LCD. Press and hold to store a radio frequency at button 6. In DVD, CD or MP3 modes, press to alternate among repeat options.

BAND button (B) In radio mode, press to select among three FM and two AM bands. Press and hold, then press the **Forward (▶▶)** and **reverse (◀◀)** buttons to enter manual station search.

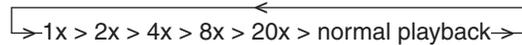
Arrow buttons Press to make selections during playback setup.

Display button (D) Press to display the clock. Press and hold to access system setup.

Forward (▶▶) and reverse (◀◀) buttons Press and hold to fast forward and reverse through chapters, tracks, files or frequencies.

Press once to skip to the next or previous chapter, track, file or frequency.

Press repeatedly to move forward or back at the following speeds. Each time you press the speed changes:



LCD screen The small Liquid Crystal Display (LCD) used to display the time, radio frequency, disc, and MP3 information.

Open button Press to open the front panel.

Play/pause button (▶||) In DVD, CD or MP3 modes, press this button to play or pause the disc.

Power/mute button (⏻) In standby, press to turn the power on. When the power is on, press to mute the volume. Press and hold for two seconds to turn the power off.

SRC (source) button (●) Press to alternate among input sources: Radio, DVD, etc.

Audio knob Rotate to the right to increase the volume and to the left to decrease the volume.

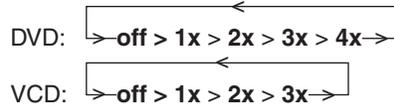




- Angle** Changes the scene angle while playing back a DVD that includes multiple scene angles.
- Arrows** Selects options on the DVD menu and values on On-Screen Display (OSD) menus.
- Audio** DVD: Changes the language during playback.
VCD/CD: Changes audio channel (left, right, stereo).
- Clear** DVD: Erases incorrect input. Works in DVD mode only.
- Display (DISP)** Displays playback information.
- Fast forward (▶▶)** Speeds playback forward at 2x, 4x, 8x, 16x and 32x speeds.
- Fast reverse (◀◀)** Fast reverses playback at 2x, 4x, 8x, 16x and 32x speeds.
- Folder (DOWN and UP)** Selects the folder when using the OSD menus.
- Go to** Starts playback at the selected chapter, track or time.
- Menu** DVD: Displays the main menu.
VCD: Turns playback control (PBC) on and off.
- Mute** Disables and enables sound.
- Next (▶▶)** Skips to the next chapter (DVD) or the next track (CD).
- PAL/NTSC (P/N)** Selects the video format in which the disc was recorded. NTSC is used in the United States. PAL is used in Europe and elsewhere. Check the disc packaging to determine which you need.
- Play/pause (▶||)** In DVD, CD or MP3 modes, starts and pauses the disc.
- Power (⏻)** Turns the player on and off.
- Previous (◀◀)** Skips to the previous chapter (DVD) or track (CD).
- Random (RDM)** Plays back chapters or tracks in random order.
- Repeat (RPT)** In DVD, CD or MP3 modes, alternates among repeat options.
- Return** In VCD mode with playback control (PBC) on, goes to the beginning of the current track. Works only in VCD mode.
- Scan (SCN)** In DVD/VCD modes, plays back 10 seconds of every track.
- Setup** Accesses the setup menu used to modify player options.
- Slow** In DVD mode, plays back in slow motion.
- Source (SRC)** Alternates among input sources: Radio, DVD, etc.
- Stop/Band (■/BAND)** In radio mode, selects among three FM and two AM bands.
In DVD, CD and MP3 modes, stops play back.
- Subtitle** Turns pre-recorded subtitles on and off.



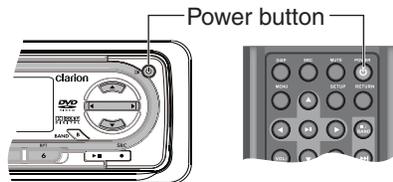
- Title** Displays the DVD's title menu.
- Volume down (VOL-)** Lowers the volume.
- Volume up (VOL+)** Raises the volume.
- Zoom** Zooms in when viewing a movie or photograph. As you press **ZOOM**, the player alternates among the available zoom settings:



4. BASIC OPERATIONS

Turning the player on

To turn on the power, press the power button (⏻) on the player or on the remote.



Locating the power button on both the player and the remote control

The player briefly displays, "Welcome!" and turns the radio on by default.

Selecting the input source

With the power turned on (either by pressing the power button or loading a disc), select the input source by pressing **SRC** (source) on the player or **SRC** (●) to alternate among:



AUX-IN is an auxiliary input device, such as a portable audio device.

NOTE

If a DVD or CD is playing, you eject the disc, and then insert it again, the player begins play back from the beginning of the disc.

Controlling audio

The audio knob on the player controls not only the volume but also the bass, treble, balance and fader.



Configuring audio options

1. Press the **AUDIO** button to select audio mode.
The audio button works to adjust the volume.
2. Press the same button again and again to alternate among all audio options:



3. Stop on the attribute you want to control.

Option	Knob direction	Description
Volume	Left	Reduces volume.
	Right	Increases volume.
Bass and treble	Left	Reduces bass or treble.
	Right	Boosts bass or treble.
Balance	Left to right	Adjusts the volume proportion from the left to the right.
Fader	Left to right	Adjusts the volume proportion from the front to the rear.
Loud	Left	Turns off Loud.
	Right	Turns on Loud, giving an extra volume boost. When on, turning the volume knob to the right increases the volume more quickly than it would otherwise.
Sound effect control	Left to right	Selects one of the following sound effects, which you can set based on the type of music you listen to: <div style="text-align: center;"> > NORMAL > POP > FLAT > CLASSIC > JAZZ > ROCK > </div>

NOTE

After five seconds of inactivity, the player exits audio setup mode.

Muting the sound

To mute sound, briefly press Power/mute (⏻). To enable sound, briefly press Power/mute again.

Turning the player off

When you're finished, either press the power button on the remote or press and hold the power button on the player for two seconds.



The player briefly displays, "Bye Bye!" and enters its "standby" state. The player never turns off completely. If the clock display is enabled (the default), the player displays the current time prefaced by "AM" or "PM."

Setting the time

In standby, you can set the time on the clock.

1. If the player is on, press the power button (⏻) to turn it off (go into standby mode).
2. Press and hold the **D** button on the player.
The system displays the current time setting.
3. To switch between setting the hours and minutes, press the button again.
3. Press the next button (▶▶) to increase the hours or minutes.
4. Press the previous button (◀◀) to decrease the hours or minutes.

NOTE

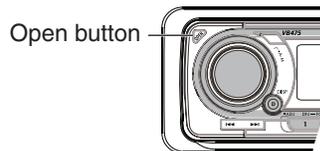
After five seconds of inactivity, the player exits time setup mode.

Protecting the player from theft

To discourage theft, detach the front panel, store it in the protective case provided, and take it with you.

Removing the front panel

1. Press the open button (🔓) in the upper left corner of the player to open the front panel.

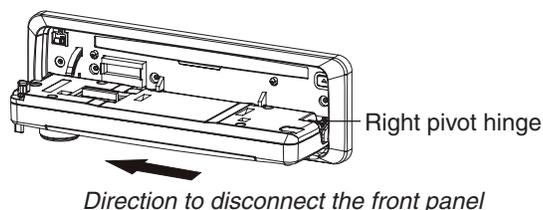


Left side of the player

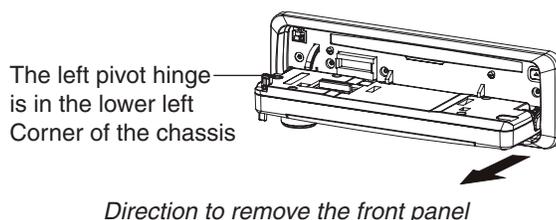
CAUTION

Do not grip the front panel buttons or use force to remove and install the front panel.

2. Holding the right side of the front panel, push the panel to the left to release the right pivot hinge.



3. Pull the panel out to release and remove it from the left pivot hinge.



CAUTION

Do not subject the front panel to excessive shocks.

Do not expose the front panel to direct sunlight or high temperatures.

Replacing the front panel

1. Line up the front panel with the opening on the player.
2. Pressing on both left and right edges, snap the panel into place.

Care and maintenance

Cleaning the player

- Use a clean, soft, dry cloth to gently wipe dust and dirt from the player.
- Do not use benzene, thinner, vehicle cleaner, or other cleaners. These substances may damage the system or cause the paint to peel.
- The surface of the LCD screen can be easily scratched. Do not rub it with anything abrasive.

Servicing the player

In the event that trouble arises, never open the player case, disassemble it or attempt to repair it yourself. The internal parts are not serviceable by the user. Opening any components will void the warranty. All warranty service should be performed by an authorized Clarion service center.



CAUTION!

Changes or modifications to this product not approved by the manufacturer will void the warranty and will violate FCC approval.

Cleaning the remote control

Use only a clean, soft, damp cloth to clean the remote control. Do not use lighter fluid, methanol alcohol or other solvents.

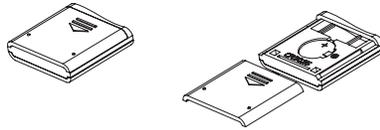
Cleaning discs

Before playing a disc, wipe it outwards from the center with a clean, soft cloth.

Changing the battery in the remote control

The remote control uses one CR2025 (3V) lithium battery.

1. Slide the tray out on the back of the remote control.

***Replacing the remote control battery***

2. Remove the used battery.
3. Insert the charged battery with the plus (+) and minus (-) poles pointing in the direction shown.

Battery precautions

- Keep batteries out of the reach of children. If swallowed, immediately consult a doctor.
- If you won't be using the remote control for a month or longer, remove the battery.
- Do not recharge A battery.
- Do not attempt to disassemble a battery.
- Do not handle batteries with metallic tools.
- Do not store batteries with metallic materials.
- If a battery leaks, wipe the remote control completely clean and install a new battery.



- When disposing of used batteries, do not incinerate them. Comply with all governmental regulations in your area.
- Always check carefully that you are loading the battery with its plus (+) and minus (-) poles as shown in the illustration above.

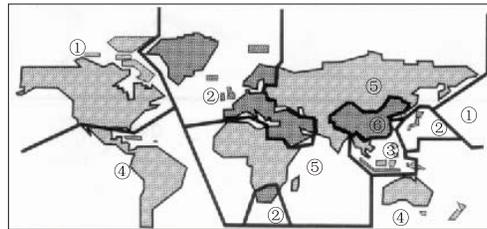
5. DVD/CD/MP3 OPERATIONS

To play back DVDs, the player must be connected to a monitor, such as one of the Clarion OHM monitors.

Audio output depends on the type of disc. Carefully read the audio characteristics of the disc before playing back.

Regions

Each player and DVD is programmed for the region of the world in which it was purchased.



Region map

The player's region is on the bottom of the unit. DVDs must be pre-programmed with the same region as the player or they will not play back.

DVD markings

The icons on DVD packages and discs have the following meanings:

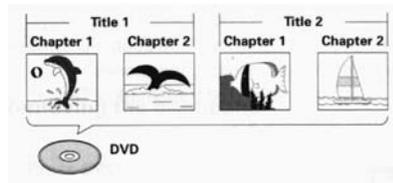
-  Indicates the number of audio output channels, which provide dubbed languages.
-  Indicates the number of languages for which subtitles are provided.
-  Indicates the number of viewing angles.
-  Indicates the picture size (aspect ratio).
-  Indicates the region number(s).





About DVDs

The contents of a DVD are organized into titles and chapters. A single work, such as a movie, corresponds to a single title. Each scene corresponds to a chapter.



Chapter structure on a DVD

On karaoke discs, each song corresponds to a title.

Some discs are organized differently. How you access the titles depends on how the disc was recorded:

Playing back some DVD-video discs may not be possible for a variety of reasons.

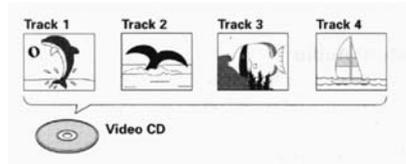
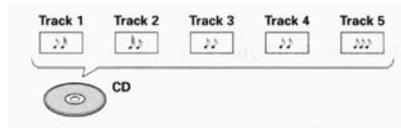
- With DVD-R discs, only recordings made in the video format (video mode) can be played back.
- With DVD-RW discs, recordings made in the Video Recording format (VR mode) cannot be played back.
- Even when DVD-R and DVD-RW recordings have been made using a playable format (video mode), playback may not be possible due to disc characteristics, scratches or dirt on the disc.
- Dirt and condensation on the lens inside the player may prevent playback.
- Although you may playback discs recorded using the correct format on a PC, the recording software, environmental settings and other factors may inhibit playback.

With some DVD discs, you may not be able to use all player functions. For example, discs that feature Playback Control (PBC) provide a playback menu and do not allow the use the number buttons on the remote to directly enter chapter and track numbers.

About video CDs, VCDs and MP3 files

Video CDs and VCDs discs are organized into tracks with each track corresponding to one song. Some discs also feature an index to the tracks.





Track structure on a music CD or video CD

Read the precautions with all CD-R and CD-RW discs before you use them. In addition:

- CD-Extra discs can be played back as music CDs.
- Playback of CD-R and CD-RW discs, other than those recorded with a music CD recorder, may not be possible.
- Even those CD-R and CD-RW discs recorded using a music CD recorder may not play back due to disc characteristics or dirt on the disc.
- As with DVDs, dirt and condensation on the lens inside the player may prevent playback.
- Titles and other text information recorded on a CD-R or CD-RW disc cannot be displayed on the player.
- With CD-RW discs, the time to play back will be longer than the time required to play back a conventional CD or CD-R disc.

Loading discs (DVDs and CDs)

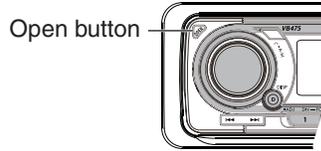
NOTES

To view a DVD or video CD, the player must be connected to an LCD monitor, such as one of the Clarion OHM monitors.

The player does not need to be turned on to load and unload discs.

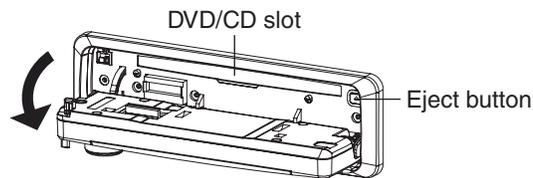
1. To release the front panel, press the open button .





Left side of the front panel

- If the slot already contains a DVD or CD, press the eject button (▲) to remove the disc.



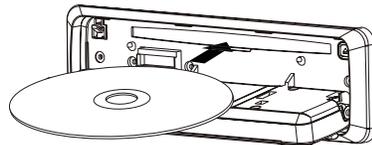
Player with the front panel open

The player ejects the disc and automatically returns to radio mode.

NOTE

Do not insert 3-inch (8 cm) discs. The player supports only 5-inch (12 cm) discs, which have the same physical dimensions as most commercial audio CDs and computer software CD-ROMs.

- Insert your DVD or CD.



CD and player

This action turns the power on and selects the DVD player as the input source.

- Close the front panel.

The player receives the disc, automatically turns the player power on, and briefly displays, "Loading..." and begins to play back the DVD. It takes a short time to begin playing back the DVD or video CD.

Audio output depends on the type of DVD or CD. Consult the disc jacket for more information.

- When you're finished, open the front panel and press the eject button (▲) to remove the disc.



DVD playback features

Pausing playback

- To pause, press the play/pause button (⏸) on the player or the remote.
- To resume play back, press the play/pause button (⏸) again.

Choosing sections or chapters

- To select a play time when using a CD or video CD, press the **GOTO** button on the remote.
- To select a DVD chapter, press the number of the chapter on the remote.
- To skip to the beginning of the next chapter, press the next button (⏭) on the remote.
- To skip to the beginning of the current chapter, press the previous button (⏮) on the remote.

Displaying playtime, disc type and the clock

- To display the play time, press the **DISP (D)** button on the player.
- To display the type of disc, press the **DISP (D)** button again.
- Pressing **DISP (D)** again displays the clock.

Zooming in and out

To zoom in, press **ZOOM** on either the player or the remote. Pressing this button repeatedly alternates among magnification values based upon the image type:

- Video CD: **1x > 2x > 3x > off**
- DVD/MPG4: **1x > 2x > 3x > 4x > off**
- JPEG: **4/3x > 3/2x > 2x > 3x > 1/2x > 3/4x > off**

Selecting the language for subtitles

The DVD must be pre-programmed to support subtitles for this feature to work. To determine the number of languages for which subtitles are provided, look for this symbol on the DVD packaging: . The packaging should also indicate which languages are supported.

1. Press **SUBTITLE** on the remote.
If the disc supports only one language for subtitles, this button does not work.
2. Use the arrows on the remote to select the language.
3. Press **SUBTITLE** again to select the language.

If you press nothing for three seconds, the language subtitle selection option disappears.



Selecting a dubbed language

The DVD must be pre-programmed to support additional dubbed languages (audio channels). To determine the number of dubbed languages, look for this symbol on the DVD packaging: . The packaging should also indicate the languages.

1. Press **AUDIO** on the remote.

The player displays the list of dubbed languages from which to choose.

2. Use the arrows on the remote to select the language.
3. Press **AUDIO** again to select the language.

If you press nothing within three seconds, the list of dubbed languages disappears.

Playing back different camera angles

The DVD must be pre-programmed to support multiple camera angles for this feature to work. Look for this symbol on the DVD packaging: .

1. Press **ANGLE** on the remote.

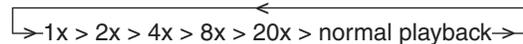
If the disc supports only one angle, this button does not work.

2. Use the arrows on the remote to select the angle.
3. Press **ANGLE** again to play back the angle.

If you press nothing within five seconds, the list of angles disappears.

Fast forwarding and reversing

- To fast forward and reverse through chapters, tracks, files or frequencies, press and hold the forward () and reverse () buttons on the player or the fast forward () and fast reverse () buttons on the remote.
- To skip to the next or previous chapter, track, file or frequency, press the button once.
- To move forward or back at the following speed, press the button repeatedly. Each time you press the speed changes:

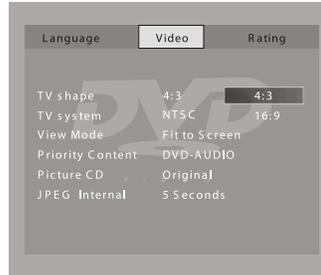


Changing the image aspect ratio

The aspect ratio is the relationship between the width and height of the image. Options are 4:3, which provides normal viewing and 16:9.

1. To enter the SETUP menu, press the **SETUP** button on the remote.
2. Use the right arrow to select the **Video** tab.





Video tab with TV shape option set to 4:3

- For the **TV shape** option, press the right or left arrows to select **4:3** or **16:9**.
- Press play/pause button (▶||) to confirm your selection.

Choosing the video format

For a disc to play back correctly, you must select the video format used to record the disc. Press the **P/N** button on the remote to select either PAL or NTSC.

CD playback features

- To pause, press play/pause (▶||) on the player or the remote.
- To resume play back, press play/pause (▶||) again.
- To play back the first 10 seconds of each track beginning with the current track, press the scan button: **4/SCN** on the player or **SCN** on the remote.
- To cancel scan mode, press the scan button again.
- To play back all tracts randomly, press the random button: **5/RDM** on the player or **RDM** on the remote.
- To cancel random play back, press the random button again.
- To repeat the current track press the repeat button: **6/RPT** on the player or **RPT** on the remote.

To play back the current disc, press the repeat button a second time.

To cancel repeat playback, press it a third time.

NOTE

Other functions work the same as for playing back a DVD.

Viewing the contents of the disc

To view the type of disc and the current track that is playing, press the **DISP** button on the remote.

The player displays information about the disc:



SVCD VCD CD:

VCD	00:00:35	00:03:53
Track	5/12	

Example of the information displayed for a VCD

DVD:

DVD	00:00:35	00:03:53
Title 1/1	Chapter 1/8	Angle 1/1
Audio	1/2	6Ch ENG
Subtitle	1/2	CHI
Bitrate	8.448 Mbps	

Example of the information displayed for a DVD

MPEG 4:

DivX	1/6	00:03:12
Version	DivX3.11	02:11:12
Size	640×352	
Framerate	30fps	

Example of the information displayed for an MPEG disc

- Use the arrow keys on the remote to move up and down in the list. Use the number keys on the remote to select a different chapter or track.
- To change to another mode, press the **RETURN** button on the remote.
- To clear the message on the screen, press **DISP** again.

Repeating chapters and tracks

To repeat the current DVD chapter, CD track or MP3 selection, press **6/RPT** on the player or **RPT** on the remote. Playback alternates among repeat options, which vary depending on the type of disc:

- A single press of the repeat button selects DVD repeat options: **Repeat Chapter > Repeat Title > Off**.
- A second press of the repeat button selects SVCD, MP3, CD, and VCD repeat options: **Repeat single > Repeat all > Off**.
- A third press of the repeat button cancels repeat playback.

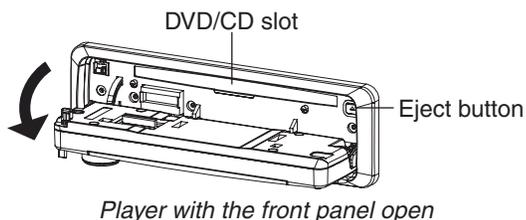
CAUTION:

If you're playing back a video CD and playback control (PBC) is on, don't use the repeat playback function. Follow the instructions on the disc packaging.



Ejecting a DVD or CD

1. To release the front panel, press the open button (🔓).



2. Press the eject button (▶||).
- The player ejects the disc.
3. Remove the DVD or CD.

Playing back MP3 audio files

- To move from folder to folder, press the **FOLDER** down and up buttons (**DOWN** and **UP** on the remote or **DN** and **UP** on the player).
- To access the selected folder, press the play/pause button (▶||) on the remote.
- To return to the parent folder, press the **RETURN** button on the remote.
- To play back the MP3 title, use the arrow keys to select the title and press the play/pause button (▶||) on the remote.

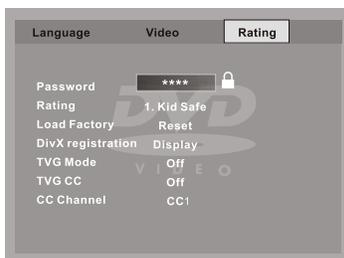
Setting parental controls

Some DVDs let you restrict children from viewing violent or adult material. This works by setting the allowable movie rating. Assuming the DVD has been pre-programmed with a movie rating, the player plays back only discs that conform to the rating you set.

Parental control for video

1. To enter the **SETUP** menu, press the **SETUP** button on the remote.
2. Use the right arrow to select the **Rating** tab.
The first time you set parental control, the default password is 3308.
3. Type the default password or the four-number password you set in the password field and press the play/pause button (▶||) to confirm.





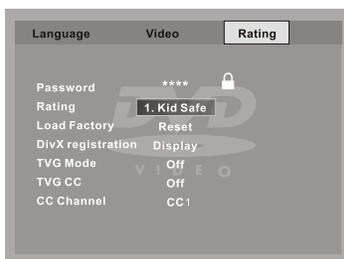
The Rating tab with the password selected

The lock symbol changes from closed to open when you enter the correct password.

CAUTION

Record your password and store it in a secure location. Without the correct password you will not be able to change ratings

- To set parental control, press the down arrow and select the **Rating** option.



Rating menu with Kid Safe rating selected

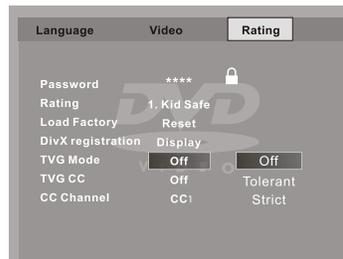
- Press the left and right arrows to select among the following:
 - 1 (KID SAF)** Material is safe for children.
 - 2 (G)** Material is safe for general audiences.
 - 3 (PG)** Parental guidance suggested.
 - 4 (PG 13)** Some material unsuitable for children under 13.
 - 5 (PGR)** Some material unsuitable for children under 17.
 - 6 (R)** Some material unsuitable for children under 17.
 - 7 (NC 17)** Not recommended viewing for children under 17.
 - 8 (ADULT)** Only for adults due to the graphic content.
- Press the play/pause button (▶||) to confirm your selection.



Filtering out foul language from the audio

TVG mode mutes sentences containing off-color language.

1. Press **SETUP** on the remote.
2. Select **Rating > TVG Mode**.
3. Select **Tolerant** for minimal foul language muting.
Select **Strict** for maximum foul language muting.



Example showing TVG mode off for audio, but one for closed captions

4. Press the play/pause button (▶||) to confirm your selection.

6. RADIO OPERATIONS

This procedure assumes that the power is on.

1. If you've been playing a DVD or CD, press the **SRC** button on the player or remote to select Radio mode.
2. To select one of three FM and two AM bands, press the **BAND** button. Keep pressing this button to alternate among:



3. To select a preset station, press one of the numbered buttons (1-6).
The station frequency displays on the LCD.

Searching automatically for a station

- To automatically search forward through radio frequencies, press next (▶▶). To stop at a station, press this button again.
- To search back through radio frequencies, press previous (◀◀). To stop at a station, press the button again.



Searching manually for a station

To manually move up through the radio frequencies, press and hold the BAND button.

Presetting frequencies

- To preset the current frequency, hold one of the numbered buttons for two seconds.
- To display the current frequency, press the **DISP (D)** button on the player. To display the clock, press this button again.

Scanning stored stations

- To scan the stored stations for the current band and play back each station for five seconds, press the down arrow (▼).
- To scan the current band and auto store the available stations, press and hold the down arrow (▼) for more than two seconds.

7. AUX-IN OPERATIONS

Before operating an external auxiliary source:

- Make sure that the output from the external audio source is properly connected to the AUX-IN.
- Make sure the external audio source is turned on.
- Change the source to AUX-IN by pressing **SRC (●)** on the player or **SRC** on the remote. The player plays back an external audio source through the auxiliary input.

Selecting the AUX-IN input source

With the power turned on (either by pressing the power button or loading a disc), press **SRC** (source) on the player or on the remote until AUX-IN displays on the LCD.

AUX-IN Playback features

- To pause, press play/pause (▶||) on the player or the remote.
- To resume play back, press play/pause (▶||) again.
- To play back the first 10 seconds of each track beginning with the current track, press the scan button: **4/SCN** on the player or **SCN** on the remote.
- To cancel scan mode, press the scan button again.
- To play back all tracts randomly, press the random button: **5/RDM** on the player or **RDM** on the remote.
- To cancel random play back, press the random button again.



- To repeat the current track press the repeat button: **6/RPT** on the player or **RPT** on the remote.

To play back the current disc, press the repeat button a second time.

To cancel repeat playback, press it a third time.

NOTE

Other functions work the same as for playing back a DVD.

8. INSTALLATION AND WIRING

Installation of mobile audio and video components requires experience with a variety of mechanical and electrical procedures. Although this manual provides general installation and operation instructions, it does not show the exact installation methods for your particular vehicle.

If you do not have the required knowledge, experience, and/or tools to successfully complete the installation, consult an authorized Clarion Dealer about professional installation options.

Precautions

- Carefully read the procedure and the installation specifications before installing the player. Connect all components according to the diagrams provided. Incorrect connection may damage the player.
- If installation requires you to drill holes or make other modifications to the vehicle, consult an authorized Clarion Dealer for help.
- Install the player where it will not get in the way of the driver or injure a passenger in the event of an emergency stop.
- Overheating will damage the semiconductor laser (used to play back discs). Do not install the player near a heat source, such as a heater outlet.
- Make all connections before you connect the player to the power supply.
- Insulate any exposed cables to prevent them from causing a short circuit with the vehicle bracket.
- Pack all cables to avoid power supply terminals touching other metal vehicle parts.
- Before making the final installation, temporarily connect the wiring, turn the power on, make sure the player works correctly and that nothing else in the vehicle has ceased to work.

Requirements

- The player requires a 12V negative (-) grounded voltage power supply.
- Use only the parts included with the player. Using unauthorized parts can cause the system to malfunction.

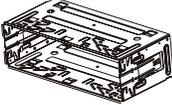
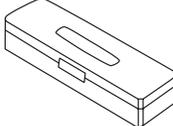
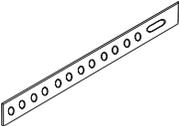
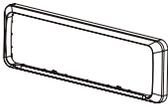


Options

To connect any auxiliary device to the player, refer to the manual supplied by the manufacturer of the auxiliary unit.

Accessories and hardware

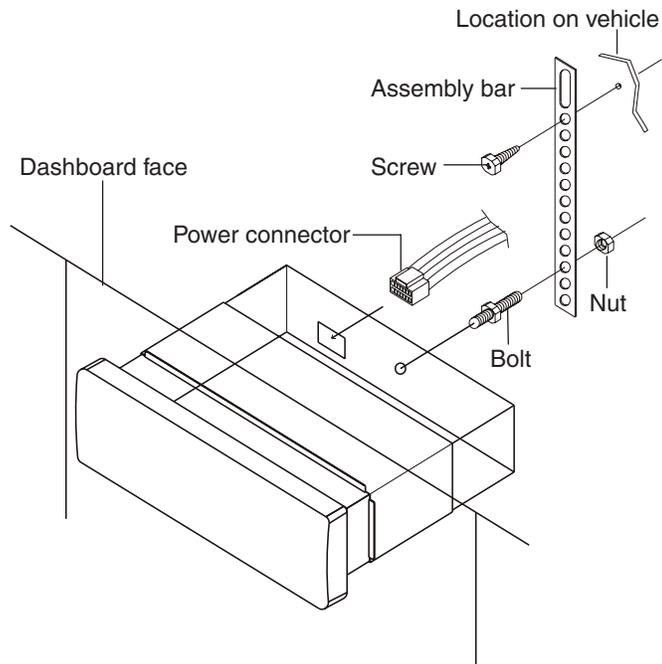
The following components come with the player:

Qty	Item	Picture	Qty	Item	Picture
1	Mounting bracket		1	Storage box for front panel	
1	Nut M5		1	Power connector	
1	Assembly bar		1	Remote control	
1	Screw (B15 x 16)		1	Trim ring	
1	Bolt		1	Battery	
2	Keys				

Installing the player

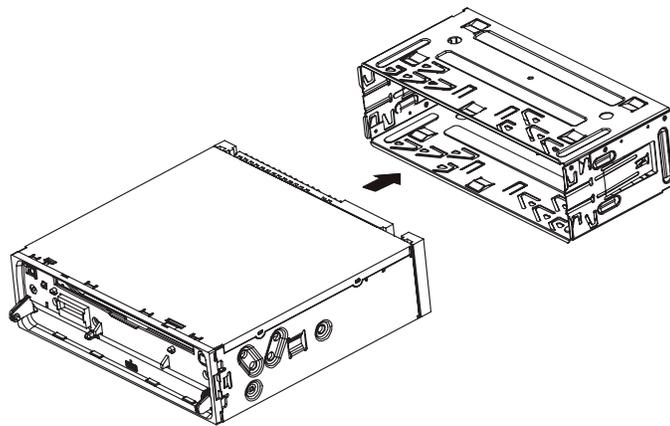
If the vehicle has a two-inch high slot in the dashboard for a DVD player, you may directly install the player in the dashboard.

1. To avoid shorts in the electrical system, disconnect the vehicle's battery.
2. Connect the mounting bolt on the back of the player using a crescent wrench.
3. Check all the electrical connections based on the wiring diagram.
4. Insert the power connector into the player's power receptacle on the back of the player.



Connections identified

5. Use the nut to mount one side of the assembly bar with the bolt.
6. Insert the player into the mounting bracket and push it in until it clicks in place.



Front of the player showing how to install the mounting bracket

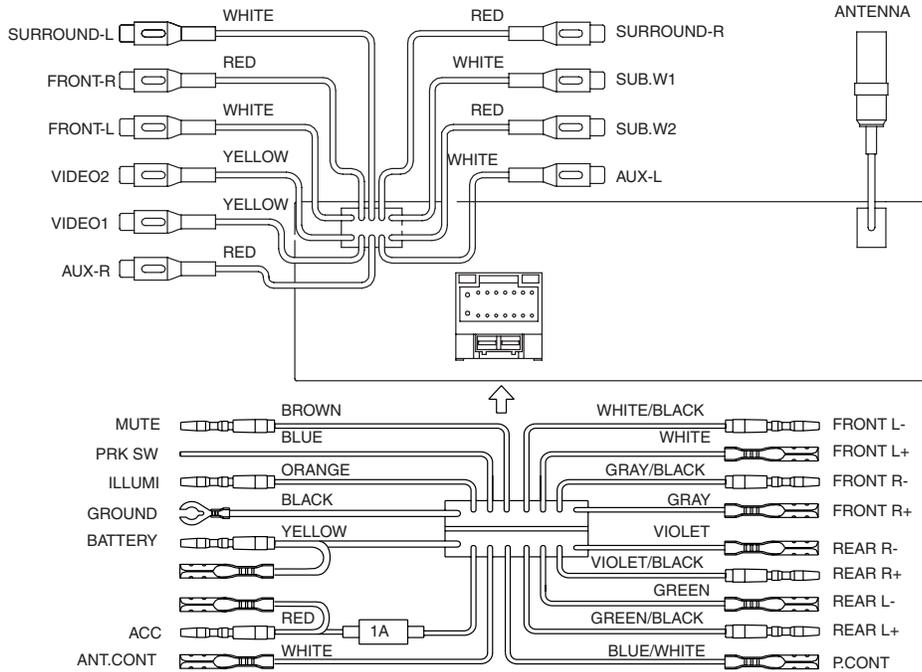
The front edge of the bracket lines up with the front of the player.



7. Use the screw (B15x16) to attach the other side of the assembly bar to the vehicle body.
8. Attach the trim ring to the front of the player.

Cable connections

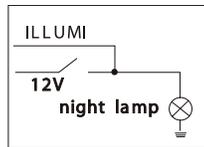
- Refer to the owner's manual for the power amplifier and for other units before you make connections.
- Secure wiring with cable clamps or adhesive tape. To protect the wiring, wrap adhesive tape around the wires where they lie against metal vehicle parts.
- Route and secure all wiring so that it cannot touch any moving parts, such as the gear shift, handbrake and seat rails. Do not route wiring in places that get hot, such as near the heater outlet. If the insulation of the wiring melts or gets torn, it could short circuit to the vehicle body.
- Don't pass the yellow lead through a hole with a grommet into the engine compartment to connect to the battery. This will damage the lead insulation and cause a very dangerous short.
- Do not shorten any leads. If you do, the protection circuit may fail to work when it should.
- Never feed power to other equipment by cutting the insulation of the player's power supply lead to tap into the lead. The current capacity of the lead will be exceeded causing overheating.
- When replacing the fuse, use only a fuse with the same rating (10A).



Cable

Where to connect

Battery (Yellow)	Connect to vehicle storage battery: DC 12V power supply.
ACC (Red)	Connect to electric terminal controlled by the ignition switch (12V DC).
Ground (Black)	Connect to a clean and exposed part of the vehicle's chassis.
ANT.CONT (White)	Connect to the auto-antenna relay control terminal (Max 300mA, 12V DC).
ILLUMI (Orange)	Connect to the lighting switch terminal used to detect the on/off status of the night lamp.



Night lamp connections

MUTE (Brown) Connect to the telephone (TEL) mute control connector.



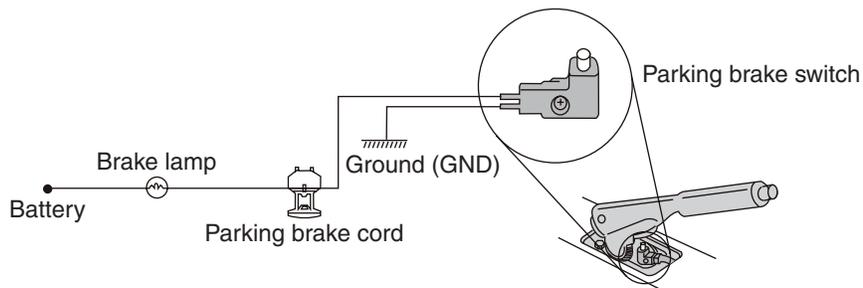
Cable	Where to connect
-------	------------------

NOTE

If the vehicle does not use a telephone (TEL), leave this cable unconnected.

P.CONT (Blu/WHT) Connect to the external amplifier control terminal (12V DC).

Parking brake (Blue) This connection is used by the player to detect when the parking brake is on and off.



Parking brake connections

Connecting the speakers

- Speakers connected to this player must be high-power types with a minimum rating of 30W and an impedance of 4 to 8 Ohms. Connecting speakers with output and /or impedance values other than these may damage the speakers, cause them to smoke or even catch fire.
- To avoid short-circuits, cover disconnected leads with insulating tape. Especially insulate the unused speaker leads.

Connect the speakers using the following color code:

Speaker	Left +	Left -	Right +	Right -
Front	White	White/black	Gray	Gray/black
Rear	Green	Green/black	Violet	Violet/black

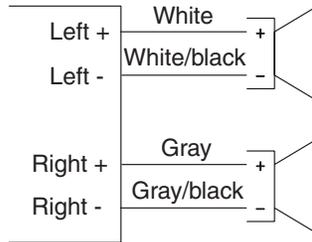
Precautions

- Use groundless speakers only.
- The input power of the speakers you use must be over 40W.
Your speakers must be able to support the full power of the amplifier, if not, the speakers and/or the player may be damaged.
- Speaker impedance is 4W. Speakers with greater than or less than 4W impedance may not be able to handle the output power from the amplifier, which may result in damage to the speakers or the player.



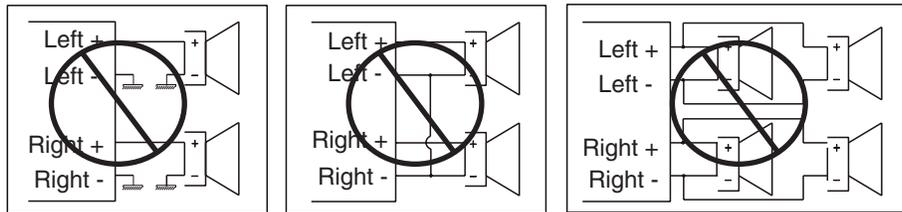
- Do not use a three-cable speaker system and do not connect the speakers to the vehicle's body. The player uses BTL circuitry, which requires that each speaker be connected using insulated cables.
- Install the speaker cables and power amplifiers approximately 12 inches (30cm) away from the antenna and any antenna extended parts.

Correct speaker wiring



Left and right wiring diagram

Incorrect speaker wiring



Wiring examples

Outlet power amplifier connection

CAUTION

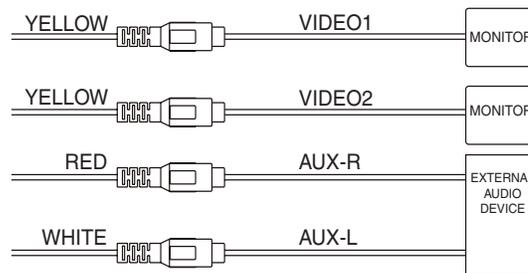
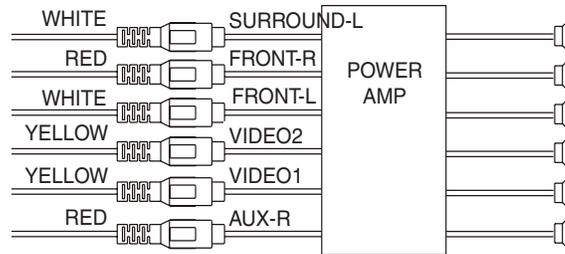
Connect the amplifier carefully using the following diagram. Incorrectly connecting the amplifier may impact the quality of the audio and could damage the speakers.

- When the player is on, it outputs a control signal through the blue and white lead. Connect this lead to an external power amp's system remote control or to the vehicle's auto-antenna relay control terminal (max. 300mA 12 VCD). If the vehicle features a glass antenna, connect to the antenna booster power supply terminal.
- When using an external power amp, do not connect the blue and white lead to the amp's power terminal. Likewise, do not connect the blue and white lead to the power terminal of the auto-antenna. This connection could cause excessive current drain and the player to malfunction.





English



Fuse

If the fuse requires replacing, use only a 10A fuse. If the fuse malfunctions after installing it, consult an authorized Clarion Dealer.

WARNING

Replacing a 10A fuse with a high-capacity fuse or directly connecting the player without a fuse will easily cause a fire and or damage the equipment.

9. DVD PREFERENCES

1. Insert a DVD disc.
2. Press **STOP** (■BAND) on the remote.
3. Press **SETUP** on the remote.
4. Use the right and left arrows on the remote to select one of three options tabs: **Language, Video** or **Rating**.
5. Press the play/pause button (▶||) to confirm.
The player displays the options for the tab you selected.





Language options

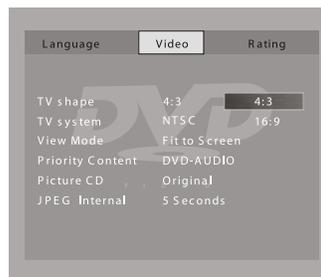
English



Language setup tab

<i>Option</i>	<i>Description and Values</i>
OSD Menu	Selects the language for the on-screen display menus. English, Chinese, French, Spanish
Subtitle	Selects the language for subtitles. English, Chinese, French, Spanish Auto Off Turns subtitles off.
Audio	Selects the audible language for the DVD audio track. English, Chinese, French, Spanish
DVD Menu	Selects the language for the DVD menus. English, Chinese, French, Spanish

Video options



Video tab with TV shape option set to 4:3





English

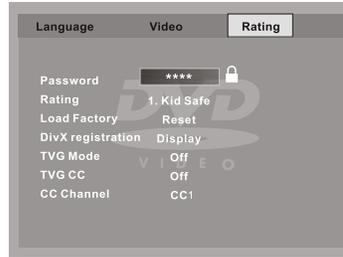
<i>Option</i>	<i>Description and Values</i>
TV shape	Selects the aspect ratio (relationship of the image width to height). 4:3 Normal aspect ratio. 16:9 Full width aspect ratio.
TV system	Selects the TV standard. PAL For Europe and Asia. NTSC For the United States.
Video Mode	Controls how video images display. FILL Stretches the image so it fits the entire screen. This may distort the image slightly. Original Displays without distortion, but the image does not fill the entire screen. H FIT Extends the left and right sides of the image. W FIT Expands the image horizontally so that it fits the entire screen. The expansion ratio increases towards the right and left edges of the screen.
Priority Content	Lets you define what type of DVDs you listen to most frequently. DVD-Audio, DVD-Video
PictureCD View	Configures how to view a CD that contains digital photographs. Original Displays the photo at its original size. Fit to screen Enlarges each photo to fit the screen.
JPEG Internal	When viewing photographs, this option determines how long the photograph displays. 5 seconds, 10 seconds, 15 seconds



Rating options

To change this page requires a password. The default password is 3308. Type four numbers in the password field and press play/pause button (▶||) to confirm the password.





The Rating tab with the password selected

The lock symbol changes from closed to open when you enter the correct password.

CAUTION:

Record your password and store it in a secure location. Without the correct password you will not be able to change ratings

Option	Description and Values
Rating	Restricts movie viewing to appropriate ages. 1 (KID SAF) Material is safe for children. 2 (G) Material is safe for general audiences. 3 (PG) Parental guidance suggested. 4 (PG 13) Some material unsuitable for children under 13. 5 (PGR) Some material unsuitable for children under 17. 6 (R) Some material unsuitable for children under 17. 7 (NC 17) Not recommended viewing for children under 17. 8 (ADULT) Only for adults due to the graphic content.
Load Factory	Reset returns all rating values to their factory defaults.
DivX registration	Displays your registration code. "DivX" refers to the audio codec created by DivXNetworks, Inc.
TVG Mode	Simulates, using software, the function of a set-top box that mutes sentences containing off-color language. Off Turns TV guidance mode off. Tolerant Selects minimal foul language muting. Strict Selects maximum foul language muting.



10. TROUBLESHOOTING

No sound from the speakers

- Sound may be muted. Press **MUTE** to restore the sound.
- The player may be fast forwarding, fast reversing, searching or displaying a single frame.
- Confirm that the cables are connected correctly.
 - There is no vehicle-installed phone and the telephone muting cable is connected to the high level.

No picture on the monitor

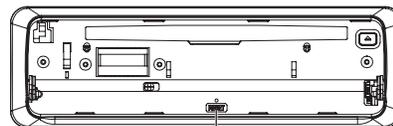
- Make sure the cables are connected correctly.
- Check to make sure that the parking brake is connected correctly.
- Make sure you are operating the monitor correctly. Turn the monitor off and back on, and select the video source.

The disc will not play

- Make sure a disc is loaded with the right side up. The side with the label on it should be up.
- Make sure the disc is not damaged or warped.
- Try another disc that you know works.
- If the disc is wet, remove it and let the player dry for about an hour before trying again.

Restoring factory defaults

If the system is locked, insert a the end of a paper clip into the hole to press the **RESET** button.



Reset button

Player with the front panel removed

NOTE

Reset returns all option settings to their factory defaults.



11. GLOSSARY

CD: Compact Disc.

CD-R/RW: CD Read/Read and Write.

CODEC: Short for Compression/Decompression Module, it applies to audio data.

Dolby Digital: The marketing name for the audio compression technologies developed by Dolby Laboratories.

DVD: Digital VideoDisc or Digital Versatile Disc.

DVD-R: DVD Read only.

DVD-RW: DVD Read and Write.

IR: Infrared.

MP3: MPEG Audio Layer-3, a standard for sound compression without sacrificing quality.

NTSC: National TV Standards Committee, the group that developed the video formats used in the United States.

OSD: On-Screen Display.

PAL: The primarily European standard for displaying analog television signals.

PBC: PlayBack Controls.

SRC: Source.

TVG: TVGuardian® is a registered trademark of Principle Solutions, Inc.

VCD: Video CD, the standard for storing video on a CD.

Viewing angle: Pre-recorded alternative angles for individual scenes.



English

12. SPECIFICATIONS

Power	Supply power voltage	12V DC
		(10.5~16V DC allowable)
		MAX Current: 10A
Audio	S/N Ratio	80dB
	Dynamic Range	80dB
	Output power	25 W x 4
	Load Impedance	4
	THD	0.1%
FM Radio	Usable Sensitivity (S/N: 30dB)	20 dBu
	Frequency Response:	60 Hz ~ 14 kHz
	S/N Ratio	55dB
	Antenna Impedance	75
AM Radio	Usable Sensitivity(S/N: 20dB)	36dBu
	S/N Ratio	43dB
	Antenna Impedance	75
AUX-IN	Frequency Response	20 ~ 20,000Hz
	Input Impedance	47K
	S/N Ratio	70dB
	Standard Input Level	200mV
DVD Player	Max Input Level:	2V
	Region number:	1
	S/N ratio	90dB(1KHZ)
	Dynamic Range	90dB(1kHZ)
	Distortion	0.05%(1kHZ)
Output level	Video	1.0V /75 (0.2V) P-P
	Audio	2.0V(1KHZ .0dB) 0.2V
	Number of channels	4.2 CH

NOTE

For the sake of technical improvements, this technical data and the design of the equipment may change without prior notice.





Clarion®

CLARION 2007 LIMITED WARRANTY

For USA and Canada only

Except as noted, Clarion products 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. The following Clarion products noted below ** are warranted against all defects in materials and workmanship for a two (2) year period from the date of original purchase when purchased from AND installed by an authorized Clarion dealer.

****DRZ9255 DXZ775USB DXZ675USB DXZ575USB DFZ675MC DPX11500 DPX1800 DPX2250**

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. IN THE CASE OF THE TWO (2) YEAR LIMITED WARRANTY FOR THE CLARION PRODUCTS NOTED ABOVE, PROOF OF DATE OF PURCHASE AND PROOF OF INSTALLATION BY AN AUTHORIZED CLARION DEALER IS REQUIRED. INFORMATION ABOUT CLARION AUTHORIZED WARRANTY SERVICE 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 products.
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 products 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.**
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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 the Clarion Customer Service at the address listed below for any service help you may need with Clarion products.

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 www.clarion.com

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 2239 Winston Park Drive
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