

# clarion®

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

## **VZ309**

DVD MULTIMEDIA STATION  
WITH 3.5" LCD MONITOR  
STATION MULTIMÉDIA DVD  
AVEC MONITEUR LCD DE 3.5"  
ESTACIÓN DVD MULTIMEDIA  
CON 3.5" MONITOR LCD

## **CLARION PRODUCT REGISTRATION INFORMATION**

For USA and Canada only

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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](http://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](http://www.clarion.com) - it's easy to keep your Clarion product up to date.

### **Contents**

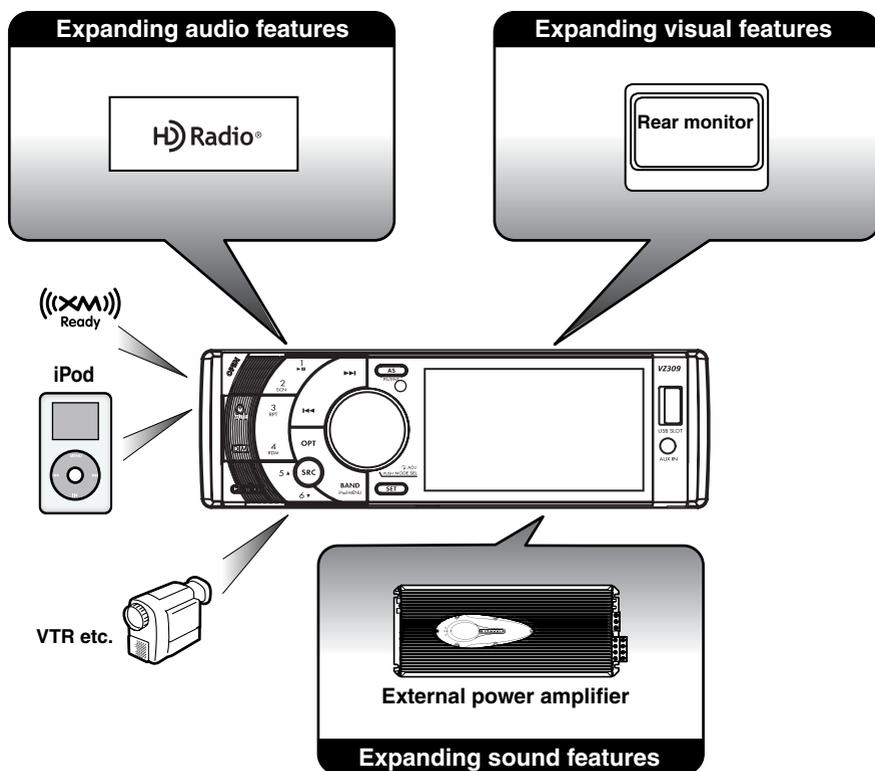
<b>1. FEATURES .....</b>	<b>3</b>
Expanding Systems .....	3
<b>2. PRECAUTIONS.....</b>	<b>4</b>
<b>3. CONTROLS .....</b>	<b>5</b>
Names of Buttons .....	5
Remote Control .....	7
Functions of Remote Control Unit Buttons .....	8
<b>4. CAUTIONS ON HANDLING.....</b>	<b>9</b>
Operation panel .....	9
Cleaning .....	9
Handling Discs.....	10
<b>5. DVD VIDEO SYSTEM .....</b>	<b>11</b>
DVD Video Features .....	11
Discs.....	12
About the registered marks etc.....	12
<b>6. OPERATIONS .....</b>	<b>13</b>
Basic Operations .....	13
Radio Operations.....	15
DVD Video Player Operations.....	15
<b>7. ACCESSORIES.....</b>	<b>21</b>
iPod Operations .....	21
AUX In Operations.....	22
XM Radio Operations .....	23
HD Radio Operations .....	24
<b>8. TROUBLESHOOTING .....</b>	<b>26</b>
<b>9. ERROR DISPLAYS .....</b>	<b>27</b>
<b>10. SPECIFICATIONS.....</b>	<b>28</b>
<b>11. ANTI-THEFT SYSTEM.....</b>	<b>29</b>
<b>INSTALLATION/WIRE CONNECTION GUIDE .....</b>	<b>30</b>

# 1. FEATURES

- Flip-down with 3.5" TFT Color LCD Monitor
- DVD-Video/DVD±R/DVD±RW Player
- CD-DA/CD-R/RW Player
- RCA 6-Channel Output
- Front USB Slot
- Rear Vision Camera RCA Input
- XM Satellite Ready
- Made for iPod® (Cable Optional)
- HD Radio Ready  
 HD Radio™ and the HD Radio and HD Radio Ready logos are proprietary trademarks of iBiquity Digital Corporation.



## Expanding Systems



### NOTE:

The unit can receive analog, HD Radio (optional) and satellite radio (optional) broadcasts.

### NOTE:

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

## 2. PRECAUTIONS

### ⚠ WARNING

For your safety, the driver should not watch any video sources and/or operate the controls while driving. Please note that watching and operating any video sources while driving are prohibited by law in some countries. Also, while driving, keep the volume to a level at which external sounds can be heard.

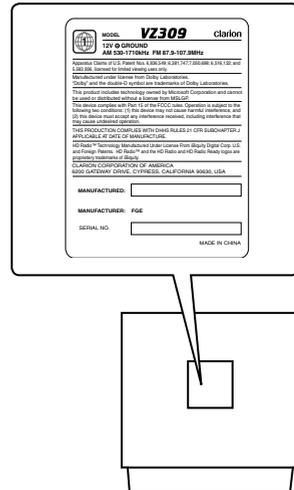
1. When the inside of the car is very cold and the player is used soon after switching on the heater, moisture may form on the disc (DVD/CD) or the optical parts of the player and proper playback may not be possible. If moisture forms on the disc (DVD/CD), wipe it off with a soft cloth. If moisture forms 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**





## Names of Buttons

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

### [SCN] Button

- Track scans for 10 seconds in CD and MP3/WMA modes.

### [RPT] Button

- Press one time:
  - Single chapter repeat in DVD video mode.
  - Track repeat in CD and MP3/WMA and iPod modes.
- Press two times repeatedly:
  - Single title repeat in DVD video mode.
  - Single folder songs repeat in CD and MP3/WMA and iPod modes.
- Press three times repeatedly:
 

All songs repeat in CD and MP3/WMA modes.

### [RDM] Button

- Press one time:
 

Shuffle entire music library in CD and MP3/WMA and iPod modes.
- Press two times repeatedly:
 

Shuffle albums in playlist in iPod mode.

### [▲] Button

- Press to navigate up among option items in DVD, CD and MP3/WMA and iPod modes.
- Press to slow backward in DVD mode to select X1/2, X1/4, X1/6, X1/8 during playing.
- Press and hold for 2 seconds to move to previous folder in MP3/WMA modes.

### [▼] Button

- Press to navigate down among option items in DVD, CD and MP3/WMA and iPod modes.
- Press to slow forward in DVD mode to select X1/2, X1/4, X1/6, X1/8 when playing.
- Press and hold for 2 seconds to move to next folder in MP3/WMA modes.

### [1] [2] [3] [4] [5] [6] Buttons

- Press to listen to the preset station.
- Press to and hold for more than 2 seconds to store station.

### [SRC] Button

- Press the button to switch among the Radio/ Disc/ USB /Aux-In /SAT /iPod (when connected) modes.

### [OPT] Button

- Press one time:
  - Enter sub-channel playlist when HD Radio tuner received digital channel in HD Radio mode.
  - Enter channel playlist in some category in satellite radio mode.
  - Back to music mode from video mode in iPod mode.

- Press two times repeatedly:
  - Exit subchannel playlist when HD Radio tuner received digital channel in HD Radio mode.
  - Enter category playlist in satellite radio mode.
  - Back to music mode from video mode in iPod mode.
- Press three times repeatedly:
 

Enter direct channel entry page in satellite radio mode.
- Press and hold:
  - Enter video mode in iPod mode.
  - Switch different radio types (analog/digital/auto) in HD Radio mode.

### [BAND] Button

- Press the button to select band:
 

Tuner/HD Radio - FM1/FM2/FM3/AM1/AM2  
Satellite -SAT 1/SAT2/SAT3
- Press the button to return to root folder in iPod mode.
- Press the button to return to root menu in DVD Video mode .
- Press and hold to enter or exit Diagnostic screen in Satellite radio mode.

### [SET] Button

- Press to enter or exit Setting Menu in all modes .
- Press and hold to enter clock adjust status in all modes.

### Volume Knob

- Rotate the knob to increase or decrease volume level in all mode except some special conditions.
- Press the knob to enter audio mode: BAS/ TRE/BAL/FAD in all modes except some special conditions.
 

Rotate the knob to adjust audio effect in different audio mode.
- Special conditions:
  - In HD subchannel and PTY playlist, rotate the knob to navigate item.
  - In HD subchannel and PTY playlist, press the knob to confirm some item.
  - In Satellite radio category playlist and channel playlist, rotate the knob to navigate item.
  - In Satellite radio category playlist and channel playlist, press the knob to confirm some item.
  - In Direct status of Satellite radio, rotate the knob to select digital and press the knob to confirm, then repeat the process.

6. In Setting menu, press the knob to navigate down to next item and rotate the knob to adjust parameter in different item.
- Press and hold to enter or exit PTY playlist in HD Radio mode.

#### [▶/||] Play /Pause Button

Press to play or pause audio or video.

- 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.

#### [◀◀] [▶▶] Search Button

- Press to search next or previous station or channel in Tuner, HD Radio and satellite radio mode.
- Press to search next or previous track or chapter in CD, MP3/WMA, iPod and DVD video mode.
- 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, satellite radio mode.
- Press and hold to enter manual seek status in Tuner and HD Radio mode, then press briefly to seek station by step.

#### [AS] Auto Search Button

Press and hold to search all stations and store six stations in preset items.

#### [PS] Button

- Press to perform:
  - Review scans station in Tuner and HD Radio modes.
  - Category scans channel in satellite radio mode.
- Press and hold more than 2 seconds to perform:  
Channel scans in satellite radio mode.

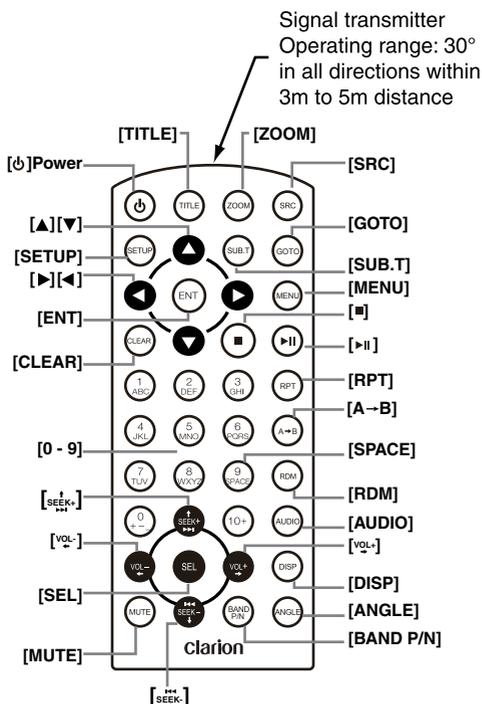
#### [ENT] Enter Button

- 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.

#### [▲] Eject disc button

- Press to eject disc from unit when panel is opened.

## Remote Control



### Replacing the batteries

- Press the retention tab and pull out the battery tray and remove the old battery.
- 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.

## Names of Remote Control Buttons

**Note:** Be sure to read this chapter while referring to diagram "REMOTE CONTROL"

### [] Power Button

- Press to turn the power ON.
- Press again to turn the power OFF.

### [ZOOM] Button

- Press to magnify or reduce image. (DVD mode)

### [TITLE] Button

- Press to select video mode for iPod.
- Press to view title in DVD mode.

### [SETUP] Button

- Press to enter setup menu.
- Press again to exit setup menu.

### [▲] [▼] Button

- Press to scroll Up/Down menu screen in Radio/SAT/CD mode
- Press to slow reverse/slow forward in DVD mode.

### [◀] [▶] Button

- Press to scroll Left/Right menu screen in Radio/SAT/CD mode
- Press to fast reverse/fast forward in DVD mode.

### [ENT] Button

- Same as front panel button.

### [CLEAR] Button

- Press to clear digital entry when input wrong password in Setup menu.
- Press to clear digital entry when input wrong digital in search status of DVD video mode.
- Press to clear digital entry when input wrong digital in direct status of Satellite radio mode.

### [0-9] Buttons

- Use the key pad screen to set the radio frequency or Satellite Radio channels.
- Use to select the preset number in the Preset List screen.
- Enter track numbers in the Key Pad screen in CD disc mode.
- Press to select the disc number in the Disc List screen.

### [SEL] Button

- Press to enter audio adjust status (BAS/TRE/BAL/FAD) in all modes.
- Press and hold to enter or exit Setting menu in all modes.
- Press to navigate down in Setting menu.

### [VOL+] [VOL-] Buttons

- Press to increase or decrease sound volume in all modes.
- Press to adjust audio effect when in different audio mode.

- Press to adjust parameter in different item in Setting menu.

### [MUTE] Button

- Press the button to turn Off/On the sound.

### [SEEK+] [SEEK-] Button

Same as front panel button.

### [SUB.T] Button

- Press the button to view or change subtitle language in DVD mode.

### [SRC] Source Button

- Press the button to select playing mode: Radio /Disc (when disc inserted) /USB (when USB inserted) /Aux-in /SAT /iPod (when iPod inserted).

### [GOTO] Button

- Press to enter search status in DVD Video.

### [MENU] Button

- Press the button to return to previous menu in iPod mode.
- Press the button to view DVD setup menu.

### [■] Button

- Press to pause video and audio media play, if press play button, then resume to play. Press again to stop video and audio media, if press play button, then play from beginning.

### [▶/||] Play/Pause Button

- Press to play or pause audio or video.

### [RPT] Button

- Same as front panel button.

### [A → B] Button

- Press to repeat section in CD, MP3/WMA and DVD mode.

### [RDM] Button

- Same as front panel button.

### [AUDIO] Button

- Press to switch audio function in DVD video mode.

### [DISP] Button

- Press to display DVD information in DVD video mode.
- Press and hold to set clock in all modes.

### [ANGLE] Button

- Press to display alternate angles in DVD video mode, if available.

### [BAND P/N] Button

- Press to select band FM1/FM2/FM3/AM1 /AM2 in Radio mode.
- Press to select band SAT1/SAT2/SAT3 in satellite mode.
- Press to select video system PAL/NTSC /AUTO in DVD video mode.

## 4. CAUTIONS ON HANDLING

### ***Operation Panel***

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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.

### ***Cleaning***

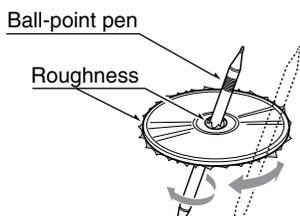
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- **Cleaning the cabinet**  
Use a soft, dry cloth and gently wipe off the dirt. For tough dirt, apply some neutral detergent diluted in water to a soft cloth, wipe off the dirt gently, then wipe again with a dry cloth. Do not use benzene, thinner, 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.**

## 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



## 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-RW disc (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.
- 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.

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- Windows Media™ and the Windows® logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/ or other countries.

# 6. OPERATIONS

## 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 [⏻] power button to turn ON the power.
3. To turn OFF the power, press and hold the [⏻] power button for more than 2 seconds.

### Selecting a mode

1. Press the [SRC] button to display the Source menu: Radio, Disc, USB, AUX-In, SAT, iPod.  
\*External equipment not connected to this unit is not displayed.

### Adjusting the volume

1. 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.**

### Adjusting the audio

1. Press the VOLUME knob to access the audio menu.
2. Press the knob repeatedly to move through the list of the menu options: Bass / Treble / Balance /Fader. Rotate the knob to adjust the settings.

### Adjusting the clock

1. Press [SET] button for more than 2 seconds. Minute display blinks. Rotate the volume knob to set minutes.
2. Press volume knob once. Hour display blinks. Rotate the volume knob to set hour.
3. Press [SET] to confirm.

### Adjusting the setting

Press [SET] to enter setting menu mode. Continue press the button until you reach the desired mode.

Mode comes in the following order:  
Equalizer → Loud Set → Beep Set → 12/24 Mode  
→ Mirror Image → VOL Mode → A-VOL → Sub LPF  
→ Area Set → Dx/Local → Bass Freq  
→ Treble Freq

The following procedures assume you have already accessed the menu.

## Basic Operations

### Equalizer

The Equalizer function applies preset sound effects to the unit's audio output signal. Turn the volume knob to select from the following equalizer options: Off - Flat - Pop - Classical - Rock.

With the equalizer function activated, if bass or treble is adjusted, the EQ Mode will revert to "Off". When the equalizer function is activated, the most recently selected bass/treble levels cannot be adjusted. When the equalizer function is not active, the unit will return to the most recently selected bass and treble levels.

### Loud set

When listening to music at low volumes, this feature will selectively boost certain bass and treble frequencies.

Rotate the volume knob to choose loud on or off.

### Beep set

The beep tone feature allows the selection of an audible beep tone to be heard each time the menu is accessed.

Rotate volume knob to choose button beep sound on or off.

### 12/24 Mode

12 HOURS MODE: the clock displays in the type of 12 hours such as 11:18 AM.

24 HOURS MODE: the clock displays in the type of 24 hours such as 20:18.

### Mirror image

This option allows for selection of a mirror image view when a rear view backup camera (sold separately) is connected to the CAMERA IN input on the back of the radio. Turn volume encoder to select "On" or "Off".

### Vol mode

Rotate knob to choose VOL LAST, the turn-on volume level is the volume level of latest power off.

Rotate knob to choose VOL ADJ, then rotate the knob to set the turn-on volume level.

### A - VOL

After selecting "Adjust" for Vol Mode, rotate the knob to select the desired turn-on volume level. When this option is selected, the unit will revert to the adjusted volume each time the unit is turned on.

### SUB LPF

Rotate volume knob to choose the frequency of low pass filter: Off, 80Hz, 120Hz, 160Hz.

### DX/Local

When local seeking is on, only those radio stations with strong radio signal could be played.

Rotate volume knob to choose radio seeking local or distant.

### Bass Freq

Rotate volume knob to choose the bass frequency: 60Hz, 80Hz, 100Hz, 200Hz.

### Treble Freq

Rotate volume knob to choose the treble frequency: 10KHz, 12.5KHz, 15KHz, 17.5KHz.



## Radio Operations

### Listen to the Radio

1. Press the **[SRC]** to select Radio mode.
2. Press the **[BAND]** button to select the band.  
Each time the button is pressed, the radio reception band changes in the following order FM1 → FM2 → FM3 → AM1 → AM2.

### Seek Tuning

1. Press to seek the station automatically in the direction of lower frequencies or higher frequencies.
2. Press and hold to enter manual seek status.

### 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 desired 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 desired band (FM or AM) on the tuner.
  2. Press the preset number (1 to 6) on tuner.
  3. Press **[AS]** button to auto search the preset stations.

### Manual Station Preset

1. Press the **[SRC]** to select Radio mode.
2. Press the **[BAND]** button to select the desired band (FM or AM).  
Select desired station by touching **[▼]** / **[▲]** key. Hold the key for more than 2 seconds to store the station.

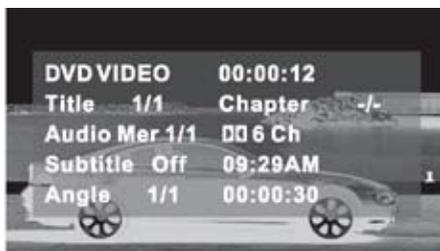
### Auto Station Preset

1. Press the **[SRC]** to select Radio mode.
2. Select desired station by touching **[AS]** button. A beep sounds and the stations with good reception are stored automatically to the preset channel.

## DVD Video Player Operations

### Display Current DVD System Settings

Press **[SRC]** button to select DVD mode (when disc is inserted, and unit is reading disc), then press the **[DISP]** button on the remote control. The LCD will display:



### 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. During disc play, press the **[SETUP]** button on the remote control to access the SETUP menu. Use **◀/▶** to select setup items: Language Menu - Video Menu - Audio Menu - Rating Menu - Misc Menu. Press **[ENT]** enter to confirm. In sub-menu setting, use **▶** or **[ENT]** to enter, use **▲/▼** cursor to select, press **[ENT]** to confirm, and use **◀** to return to previous menu.



## DVD Video Player Operations

### ⚠ CAUTION

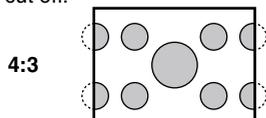
For your safety, the driver should not insert or eject a disc, or operate the controls while driving.

### Setting up the screen size

In DVD video menu display select the aspect ratio "16:9" for wide screen or "4:3" for normal display.

•When watching a wide type through a conventional type of the rear view monitor (4:3)

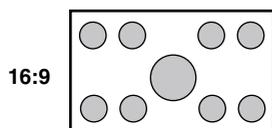
The leftmost and rightmost areas of the screen are cut off.



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.



### Set up the audio language

1. Select Audio Menu screen of the DVD while in SETUP mode. Select a desired language by using [▼] [▲] key. Press [ENT] enter to confirm.

### Set up the subtitle language

1. Select Language Menu screen while in SETUP mode. Select a desired subtitle language by using [▼] [▲] key. Press [ENT] enter to confirm.

### Set rating for parental level control

1. Select Rating Menu screen while in SETUP mode. Set rating by using numbers (0-9) on the remote control key panel.  
\* The factory default setting is "8"

The relationship between DVD video rating codes and parental level are shown in the table below. Use this table when setting the parental level.

LEVEL7	NC-17 (NO ONE 17 AND UNDER ADMITTED)
LEVEL6	R (RESTRICTED)
LEVEL4	PG13 (PARENTS STRONGLY CAUTIONED)
LEVEL3	PG (PARENTAL GUIDANCE SUGGESTED)
LEVEL1	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.

### Set up the password for parental level lock

1. Select Rating Menu screen while in SETUP mode. Select Set Password. Enter 4-digit password. Press [ENT] enter button to confirm.
2. If you forget the password, enter 0000 to reset a new password. Press [ENT] to confirm Select Set Password again. Enter new password and press enter button.

### Set up Misc Menu

Select Yes to return to default (original settings).

### Starting DVD system play

**Note:** Refer to the diagram in "CONTROLS" chapter.

1. To load a disc:  
Press the [OPEN] button to flip down the front panel. Insert the disc into the slot.

**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.

# DVD Video Player Operations

## Watching/Listening to a Disc

1. Press the [SRC] to select DVD mode, when disc is inserted.

### ⚠ 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.
- Please note that watching and operating the video while driving are prohibited by law in some countries.

2. DVD icon will appear on the display and TITLE appears. Press [ENT] or [▶/III] to play.

## Pausing Play

1. Press the [▶/III] to pause play.
2. To resume play press same button again.

## Ejecting a Disc

1. Press the [OPEN] button to open the panel.
2. Press the [▲] button to eject the disc. The play mode then switches to the Radio 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 Radio mode.

**Note:** If you force a disc into before auto reloading, it will damage a disc.

## DVD Player Fast Forward/Fast Backward

While disc play, press [I◀◀] / [▶▶I] on the panel or the [◀] / [▶] buttons on the remote control to fast forward or fast reverse.

Press and hold once for 2X. Press and hold additional times for 4X, 8X, 20X or PLAY.

- During the fast forward or backward operation, press briefly to playback again.

- During the fast forward or backward operation, the volume will be muted.

## Repeat Chapter or Title

1. Press [RPT] key once for chapter repeat, Press the key again for chapter title.
2. Press [RPT] key again to turn off the repeat playback.

## Repeat A → B

1. Select desired passage to repeat playback.
2. Press [A → B] key to select the starting point. Display shows REPEAT A.

Press [A → B] key again to select the ending point.

Display shows REPEAT A B.

3. Selected passage starts to replay.
4. Press [A → B] key again to exit. Display shows A → B CANCEL.

## GOTO Desired Track or Chapter

1. Press [GOTO] button on remote control.
2. DVD track or DVD Title/Chapter and time display on top of the screen. Current item is highlighted. Use ◀/▶ to select desired item. Use digit button to select number. Press ENTER to confirm.

## Switching Among Languages

You can switch among the audio languages during playback, if the disc has two or more languages recorded. Depending on a disc, up to 8 audios can be recorded. For details, see the mark on the disc. (8) - indicates 8 language recorded.

1. Press [AUDIO] button on remote control or [▼] on the tuner to switch among the multiple languages.

## Select DVD Subtitle

1. Press [SUB.T] button on remote control to select subtitle language, if the DVD has multiple languages. Each time you touch the button, you can switch subtitles. Depending on the disc, up to 32 subtitles can be recorded. See the mark on the disc.

## Select DVD Title

1. Press [TITLE] button, digit numbers or use [▲] [▼] [◀] [▶] buttons to select title.
2. Press [ENT] to play.

## Select DVD Angle

1. Press [ANGLE] button on remote control to view from different angle, if DVD has multiple-angle views. Depending on the disc, up to 9 angles can be recorded. See the multi-angle mark  on the disc.

## ZOOM

1. Press [ZOOM] button on remote control to zoom the picture.  
X1 → X2 → X3 → X4 → X1/4 → X1/2 → OFF.

## STOP

1. Press [■] button on remote control to stop play.

## DVD Video Player Operations

### Setting up the screen size

#### Pausing playback

Press [▶/||] key during playback to pause.

To resume playback touch the key again.

Skipping a track (searching)

Press [◀◀] [▶▶] key during playback to skip to the next track. Tracks are skipped as many

times as button is pressed.

To resume playback touch the key again.

#### Fast Forward and Fast Backward

1. Press [◀◀] [▶▶] button on the panel or on the remote control during playback.

2. Press and hold once for 2X. Continue press and hold for 4X, 8X, 16X.

3. During the fast forward or backward operation, press [▶/||] briefly to playback again. During the fast forward or backward operation, the volume will be muted.

#### Searching with a Track Number

1. Input a desired track number 1-9, 0 and 10+ on remote control.

2. Press [ENT] or [SEL] button to confirm.

#### Other Various Play Functions

Touch the button of the function you would like to play.

1. During playback, press [RPT] once or more. RPT icon will appear on the display. Display appears RPT ONE → RPT ALL → RPT OFF.

2. To play tracks randomly, during playback, press [RDM] once or more. RDM icon will appear on the display. Press [RDM] again to select normal playback.

### 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 of front panel, or disc is loaded, the play mode is automatically 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.

## DVD Video Player Operations

### • 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

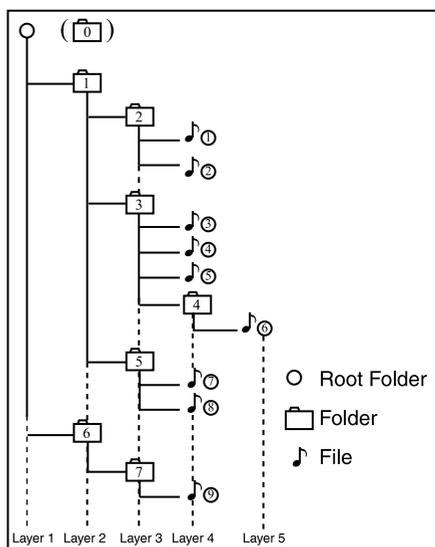
- The maximum allowable number of folders is 255 (including root directory); the maximum allowable number of files is 512 (max. 255 per folder). This represents the maximum number of tracks that can be played back.
- Tracks are played in the order that they were recorded onto a disc. (Tracks might not 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.

## DVD Video Player Operations

If a disc is already in the disc slot but is not playing, press the **[SRC]** button on the front panel or remote control to switch to the DISC source. To play files from USB that is already inserted, choose USB source. The MP3 playback screen is indicated below:



1. CD/MP3/WMA Indicator
2. Current of Total Tracks
3. Current Folder Name
4. Time/Clock
5. ID3 Artist and Title Information (MP3/WMA only)
6. Songs on Disc
7. Source Indicator
8. Elapsed Playing Time for Current Song

### Selecting a folder

1. Press **[◀]** **[▶]** to enter folder list.
2. Press **[▼]** **[▲]** to select desired folder.

### Selecting a file

1. Press **[◀]** **[▶]** to enter file list.
2. Press **[▼]** **[▲]** to select desired file.
3. For PICTURE: press **[▶/||]** to slide the show.
4. For MUSIC: press **[■]** to enter power on logo.  
Press **[▶/||]** to return.

### Pausing Play

1. Press the **[▶/||]** to pause play.
2. To resume play press same button again.

### Selecting a track (searching)

Press **[◀◀]** / **[▶▶]** on the panel.  
Or press 1-9, 0 10+ buttons on the remote control to select desired track number.

### Fast Forward/Fast Backward

Press **[◀◀◀]** **[▶▶▶]** key on the panel or on the remote control during playback.  
Press and hold once for 2X. Press and hold additional times for increase speed 4X, 8X, 1 6X.

- During the fast forward or backward operation, press **[▶/||]** briefly to playback again.
- During the fast forward or backward operation, the volume will be muted.

### Other Various Play Functions

Touch the button of the function you would like to play.

1. During playback, press **[RPT]** once or more. RPT icon will appear on the display.  
If the disc is a CD, display appears RPT ONE → RPT ALL → RPT OFF.  
If the disc or USB sticker contains songs, pictures or folders, display appears RPT ONE → RPT FOLDER → RPT ALL → RPT OFF.
2. To play tracks randomly, during playback, press **[RDM]** once or more. RDM icon will appear on the display. Press **[RDM]** again to select normal playback.

# 7. ACCESSORIES

## iPod Operations

This unit can be used to control a connected Apple iPod and iPhone. Please consult your dealer or Clarion Technical support about specific features and functions with your Apple device.

### Note:

- Note that iPod versions higher than those noted above may not be playable or offer all features.
- The unit will not operate, or may operate improperly with unsupported versions.
- First, second and third generation iPod and iPod shuffle cannot be used.

### Notes regarding use of Apple iPod

- After the iPod has been connected to this unit, the iPod's buttons are disabled for operation.
- When the iPod mode has been selected, a special iPod control screen is displayed different from the main screens for other modes.
- This unit can display the iPod cast titles\*, Artist names, Album titles, Song titles, Genre names, Composer names and Audio Book titles\* registered on the iPod. When no data is present, the title display will remain blank.  
\*Whether these functions are available or not depends on the iPod version.
- The iPod is used with the equalizer function turned OFF.
- Do NOT connect an iPod to the unit with a headset connected to the iPod.
- **Precautions for battery consumptions**  
*When the iPod's internal battery becomes depleted, the recharge warning indicator will appear in the iPod's display. In this condition, the iPod cannot be played even if attached to the unit. Also, the unit's recharging function cannot be used to recharge the iPod.*  
*As a result, when the iPod's battery becomes depleted, use the dedicated charger provided with it to recharge the battery.*

### Controlling the iPod

#### Selecting the iPod mode

- The unit will automatically switch to iPod mode when an iPod is plugged into the iPod cable. To return to the iPod screen

from any other source, press the **[SRC]** button on the front panel or remote control and select iPod. After switching to iPod source, the iPod menu appears on the screen.

### Note:

*Be sure your iPod has the latest Apple firmware installed to avoid connectivity issues.*

### • iPod operation keys

The following remote control buttons are used to access the iPod menus.

Menu	Remote Control
Music	AUDIO
Photo/Videos	TITLE

Use the navigation arrows on the remote control or the **5 / 6** buttons on the control panel to navigate the iPod menus.

Press the **[ENT]** Enter button on the front panel or remote control to select the highlighted menu option.

You can select the Music/Photo/Video functions by short pressing the **[OPT]** button on the front panel to enter music mode, and long pressing the **[OPT]** button to enter video mode.

### • iPod music playback

The iPod music menu is automatically accessed when an iPod is connected to the unit.

1. Press the **[▶/||]** button on the front panel or remote control to play or pause the selected track.
2. Press the **[▶▶]** button on the front panel or remote control to play the next file.
3. Press the **[◀◀]** button on the front panel or remote control to return to the beginning of the current song.
4. Press the **[ENT]** button on the front panel or remote control to select the highlighted menu option.
5. Press the **[BAND]** button on the front panel or **[MENU]** on remote control to return to the root folder.
6. Long press the **[▶/||]** button on the front panel or short press the **[■]** button on the remote control to stop the selected track.

## iPod Operations

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### **Fast forward and fast backward playback**

Press and hold the [▶▶] or [◀◀] buttons on the control panel or remote control for fast forward or fast reverse. Release the button to resume normal playback.

### **Photo/Video playback**

To view photos and videos on the screen, you must use the iPod to control photo and video playback options.

1. Press the [TITLE] button on the remote control or press and hold the [OPT] button on the front panel.
2. Select video media to be displayed on monitor.
3. Press the [AUDIO] button on the remote control or press the [OPT] button on the front panel to return to iPod music mode.

**NOTE:** Video playback requires Gen 5.5 or earlier. Photo or Video iPod, iPod Touch, iPod Classic. iPod Nano with video will only play music files.

**NOTE:** To transmit the video from your iPod to the screen, you must set the following options through the iPod video settings menu: TV Out = On, TV Signal = NTSC, and Widescreen = On.

**NOTE:** After disconnecting your iPod, the unit will always return to the last mode accessed when the iPod is plugged back into the unit.

## AUX in Operations

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

### **Switching to AUX In mode**

Press [SRC] button to select AUX IN mode (when unit is reading). The LCD will display the external video. You cannot directly control external devices connected to the AUX IN input.

#### **⚠ 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.

## XM Radio Operations

This function is available when XM Radio receiver is connected through the dedicated connections. Listeners can subscribe to XM® Radio on the Web by visiting [www.xmradio.com](http://www.xmradio.com), or by calling (800) 967-2346. Customers should have their Radio ID ready. (see “Displaying the Identification (ID) Code”).

Customers can receive a limited number of free-to-air channels without activation.

### Selecting XM Radio mode

1. Press the **[SRC]** button on the front panel or remote control to switch to the SAT source.



INFORMATION ON THE SCREEN:

1. SAT Channel/Category Name
2. SAT Channel Number
3. SAT Band
4. Time Clock
5. Artist and Title Information
6. Current Preset Channels
7. Source Indicator

### Displaying the Identification (ID) Code

To display the radio ID, press the **[OPT]** button on the front panel three times or use the **[◀◀]** tuning button to tune to channel “000”. The screen displays the radio ID where the channel name is usually displayed.

### Band selection

Press the **[BAND]** button to change between three SAT bands (SAT 1, SAT2 and SAT3). Each band stores up to six preset stations.

### Station selection

Press the **[◀◀] [▶▶]** button to tune to another station.

### Preset mode

Six numbered preset buttons store and recall stations for each band. The stored stations (P1 -P6) for the current band can be viewed on the screen. Use the remote control **[▼] [▲]** up/down arrow buttons to scroll through the preset station list.

### Storing a Station

1. Select a band (if needed), then select a station.
2. Press and hold a preset button (numbers 1-6) on the front panel or remote control.
3. The preset number and station is displayed and highlighted.

### Recalling a Station

1. Select a band (if needed).
2. Press a front panel or remote control preset button (numbers 1-6) to select the corresponding stored station.

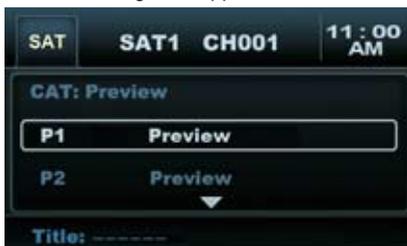
### Channel Search

To access Channel Search mode, press the **[OPT]** button on the front panel. The list of all available channels appears on the screen.

1. Rotate the rotary knob on the panel or press the **[▼] [▲]** up/down arrow keys on the remote control to navigate the list of channels.
2. Press the the rotary knob or the **[ENTER]** button on the remote control to select a channel.

### Category Search

To access Category Search mode, press the **[OPT]** button on the front panel twice. The list of available categories appears on the screen.



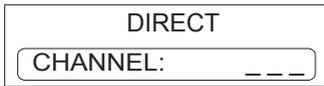
2. Rotate the rotary knob or press the **[▼] [▲]** up/down arrow keys on the remote control to navigate the list of categories.
3. Press the rotary knob or the **[ENT]** enter button on the remote control to select the desired category. A list of stations in the selected category appears on the screen.

## XM Radio Operations

4. Rotate the rotary knob or press the [▼] [▲] up/down arrow keys on the remote control to navigate the list of stations in the selected category.
5. Press the rotary knob or the [ENT] enter button on the remote control to select a station.

### Direct channel input

To enter a radio station directly, press the [OPT] button on the front panel three times to display the DIRECT channel input screen.



Enter the desired radio station using the remote control number pad followed by the [ENT] enter button, or perform the following steps:

1. Turn the rotary knob on the panel to select the third digit of the desired channel (0-9).
2. Press the rotary knob to enter the number and move to the second position.
3. Turn the rotary knob again to select the second digit of the desired channel (0 - 9).
4. Press the rotary knob to enter the second number and move to the first position. (Press and hold if channel is only 2 digits and you are ready to tune to the channel.)
5. Turn the rotary knob again to select the first digit of the channel you want to tune to (0 - 2).
6. Press the rotary knob to tune to the selected station.

## HD Radio Operations

### HD Radio™ Technology

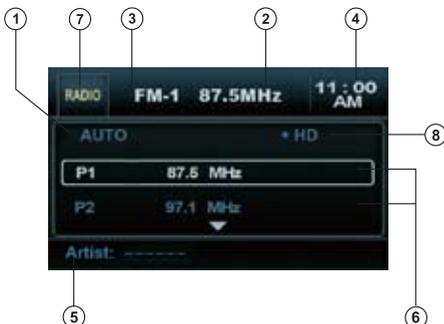
HD Radio technology allows CD-quality digital broadcasting of your local AM and FM radio stations. HD Radio broadcasts can include multiple channels on the same frequency, which is called multicasting. With multicasting, you can receive up to eight additional multicast channels: HD1 ~HD8. With the installation of an optional HD Radio Module, you will receive HD Radio digital broadcasts automatically when tuned to a station that offers HD Radio technology.

**NOTE:** Not all FM or AM stations offer HD Radio (digital) broadcasting.

*You can receive both analog and digital stations with the unit.*

### Selecting HD Radio mode

Press the [SRC] button on the front panel or remote control to switch to the RADIO source.



### INFORMATION ON THE SCREEN:

1. Stereo Reception Indicator
  2. Radio Station Frequency
  3. AM/FM Band
  4. Time/Clock
  5. Program Information, Artist, Title, Type
- NOTE:** The amount of information displayed when receiving HD Radio signal is dependent upon what is being broadcast. Some stations broadcast their call letters (name), artist's name, song title, and category of music.

- ⑥ Current Preset Channels
- ⑦ Source Indicator
- ⑧ HD Radio Station Indicator

### Selecting HD Radio band

Press the BAND button to change between three FM and two AM bands. Each band stores up to six preset stations.

### HD Radio tuning

1. Seek Tuning  
Press the [◀◀] or [▶▶] buttons to seek the next/previous station automatically.
2. Manual Tuning  
Press and hold the [◀◀] or [▶▶] buttons to enter manual tuning mode. Press the buttons again to move the radio frequency number up or down one step.

## HD Radio Operations

### HD Radio multicast channels

To tune to an HD Radio multicast channel, tune to the main signal and then press the **[OPT]** button on the control panel.

A list of multicast channels will be displayed (HD-1, HD-2 etc).

- Use the rotary encoder to navigate the list and then press to select a multicast channel.
- Use the remote control arrow keys and **[ENT]** enter button to select a multicast channel. Press and hold the **[OPT]** button to change between “Auto”, “Digital” and “Analog”.

When set to “AUTO”:

The station will be received first in Analog, but will change to Digital, when a digital signal is detected.

The HD icon will illuminate.

If the digital signal becomes unavailable, the unit will revert to Analog reception.

### HD Radio program information

To view the Program Type categories, when listening to HD Radio broadcasting, press and hold Volume knob on the front panel. Program type categories are listed, allowing listeners to find similar programming by genre. Rotate the knob to change the category. Press the rotary button to select Program category. The radio will start scanning for stations broadcasting in the selected category.

### Store preset stations

Up to six stations on each band can be stored as presets, which can then be instantly recalled by pressing the associated preset button.

To store a station, turn the radio on and select the desired band and station. Press and hold the desired preset button (numbered one through six on the face of the radio or remote control) for more than two seconds. When stored, the preset number will appear in the display. The station is now stored and can be recalled by pressing the corresponding preset button. Repeat the same steps for the remaining five presets on the current band and for presets on the other four bands.

**NOTE:** *Multicast stations can be stored as presets, but the unit must be in Digital or Auto reception mode to receive them.*

### Preview scan

Press the **[AS]** button to scan and play all strong stations for 5 seconds each. Press **[AS]** again to stop scanning and play the current station.

### Automatic store

Press and hold the **[AS]** button to select six strong stations and store them in the current band using the Auto Store feature.

After entering the stations into memory, the unit will automatically stop at each station for five seconds, allowing you to preview each selection. When using the Auto Store feature, the new stations replace any stations already stored in preset memory.

Press the **[AS]** button again to stop the Auto Store function at any time.

# 8. TROUBLESHOOTING

## GENERAL

Problem	Cause	Measure
Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase.
	Incorrect wiring.	Consult your 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. <b>Note:</b> <i>When the Reset button is pressed, turn off the ACC power.</i> * When the Reset button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.*
The remote control unit does not work.	Direct rays of the sun fall on the light-receptive part of the remote control unit.	When direct rays of the sun fall on the light-receptive part of the remote control unit, it may not work.
	The 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

Problem	Cause	Measure
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 VIOLATION" shown.	Feature exceeds set parental level.	See the subsection "level"

## 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**

Display	Cause	Measure
<b>BAD DISC</b>	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.
<b>BAD DISC</b>	A disc cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
<b>BAD DISC</b>	A disc is loaded upside- down inside the DVD deck and does not play.	Eject the disc then reload it properly.
<b>PARENTAL VIOLATION</b>	Parental level error	Set the correct Parental level.
<b>WRONG REGION</b>	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 dB $\mu$   
 Stereo Separation (1 kHz): 30 dB  
 Frequency Response ( $\pm$  3dB): 30 Hz to 15 kHz  
 Image Response Ratio: 50dB  
 IF Response Ratio: 70dB  
 Signal/Noise Ratio: >55dB

## AM Tuner

Frequency Range: 530 kHz to 1710 kHz  
 Usable Sensitivity: 30 dB $\mu$

## DVD Player

System:  
 Digital Versatile Disc System with  
 CDDA capable  
 Usable discs:  
 DVD video disc, Compact disc  
 Frequency Response:  
 20 Hz to 20 kHz(CD) ( $\pm$ 1 dB)  
 Signal /Noise Ratio: 75dB  
 Total Harmonic Distortion: Less than  
 0.20% (1 kHz)

Channel Separation: 60dB  
 Video Output: 1 $\pm$ 0.2V

## 3.5" LCD Monitor

Display Resolution: 320 x 234 (RGB)  
 Active Area (mm): 76.32 (H) x 42.822 (V)  
 Screen Size (inch): 3.5"  
 Dot Pitch (mm): 0.2385 (H) x 0.183 (V)  
 Contrast Ratio: 350  
 Brightness: 350 nits

## General

Power source voltage:  
 14.4 V DC (10.8 to 15.6 V allowable)  
 Ground: Negative  
 Maximum Power Output: 40W x 4 channels  
 Continuous Power Output: 18W x 4 channels  
 (4 Ohm 10% THD~N)  
 Suitable Speaker Impedance: 4-8 Ohm  
 Pre-Amp Output Voltage: 2.0V  
 (CD play mode:1kHz, 0dB, 10 kOhm)  
 Fuse: 15A  
 Dimensions (mm): 178W x 50H x 166D  
 Weight (kG): 2.2  
 Aux-in Level:  $\geq$ 300mV  
 Sub-out: 4.0V

## 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  $\Omega$   
 and 10% THD+N

### Signal to Noise Ratio:

75 dBA (reference: 1 W into 4  $\Omega$ )

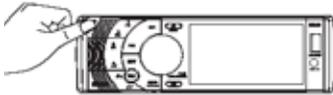


# 11. ANTI-THEFT SYSTEM

This unit is equipped with a flip-down detachable panel. You can detach the panel and carry with you to prevent from stealing the unit.

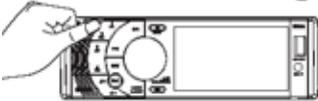
## **Removing the Panel**

1. Switch off the power of the unit.
2. Press **[OPEN]** button to flip down the panel.
3. At an angle hold the panel to pull it out.
4. Place the panel into the case and take it with you when you leave the car.



## **Installing the Panel**

1. Hold the panel and ensure the panel faces toward you, and set the right side of the panel in the panel bracket.
2. Press the left side of the panel until it locks.



# INSTALLATION / WIRE CONNECTION GUIDE

## CONTENTS

1. BEFORE STARTING .....	30
2. PACKAGE CONTENTS .....	30
3. GENERAL CAUTIONS .....	30
4. CAUTIONS ON INSTALLATION .....	31
5. INSTALLING THE SOURCE UNIT .....	31
6. REMOVING THE SOURCE UNIT .....	32
7. CAUTIONS ON WIRING .....	33
8. WIRE CONNECTIONS .....	34

### 1. Before Starting

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

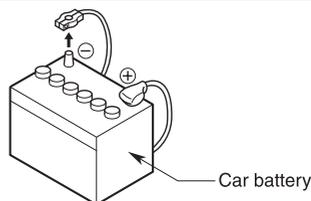


Figure 1

### 2. Package Contents

Source unit .....	1	Trim plate .....	1
Owner's manual and Installation manual .....	1	T-key .....	2
Mounting bracket .....	1	Rubber cushion .....	1
Machine screws M5x6 mm .....	4	Remote control unit .....	1
Mounting bolt (50 mm) .....	1	Battery (CR2025) .....	1
Parking wire .....	1	(Installed in remote control)	
Removable face plate case .....	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, benzene, 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. Install the unit within 30° of the horizontal plane. (Figure 2)
3. If you have to do any work on the car body, such as drilling holes, consult your car dealer beforehand.

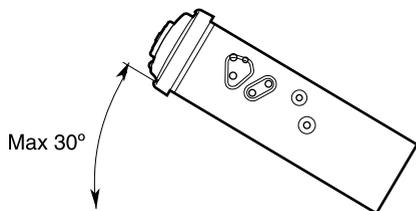


Figure 2

4. Use the enclosed screws for installation. Using other screws can cause damage. (Figure 3)

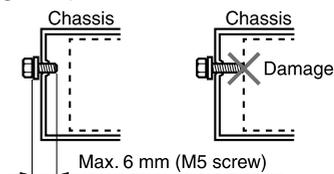


Figure 3

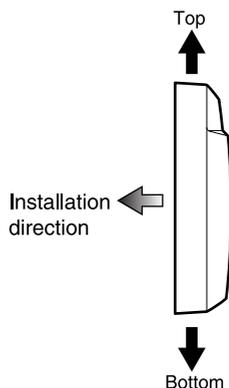
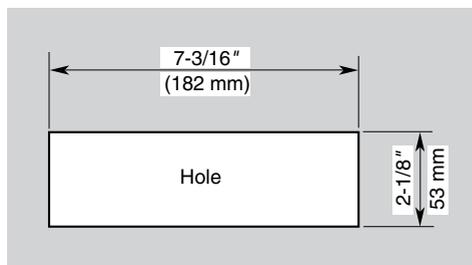
## 5. Installing the Source Unit

1. Place the mounting bracket into the instrument panel, use a screwdriver to bend each stopper of the universal mounting bracket inward, then secure the stopper as shown in Figure 4.
2. Wire as shown in Section 8. .
3. Insert the source unit into the mounting bracket until it locks.
4. Take care of the top and bottom of the outer escutcheon and mount it so that all the hooks are locked.

### Notes:

- 1) Some car models require special mounting kits for proper installation. Consult your Clarion dealer for details.
- 2) Fasten the front stopper securely to prevent the source unit from coming loose.

### • Console opening dimensions



**Note:**

Before attaching the mounting bracket, slightly bend the spring toward the inside with your fingers and attach it to the side of car.

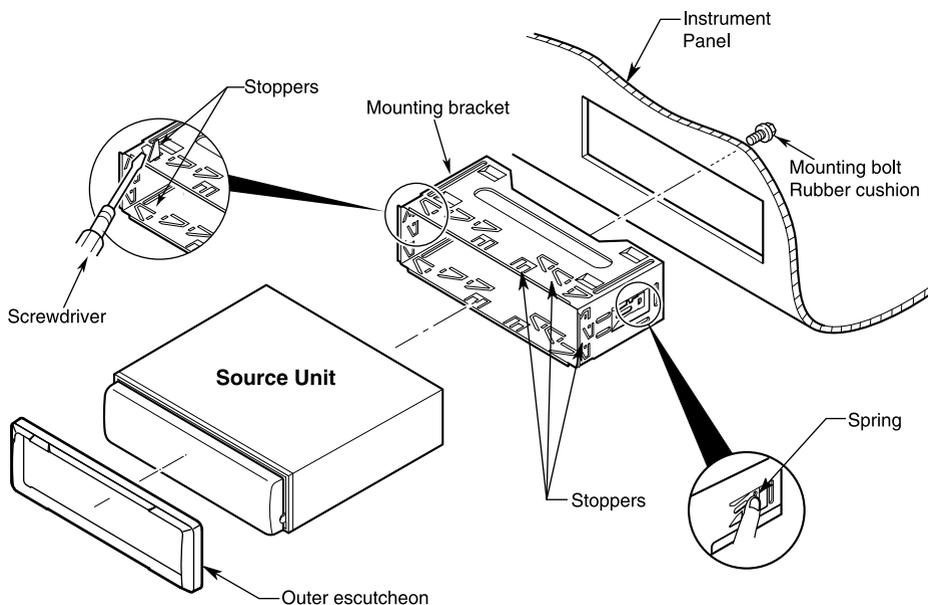


Figure 4

## 6. Removing the Source Unit

1. When removing the source unit, disassemble it in the reverse of the order in Section 5. "Installing the Source Unit".
2. Remove the Detachable Control Panel (DCP).  
\* For instructions on removing the DCP, refer to the owner's manual.
3. Press the outer escutcheon upward and remove it. (Figure 5)
4. Insert and lock the hook plates. (Figure 6)
5. Pull the hook plates to remove the source unit.

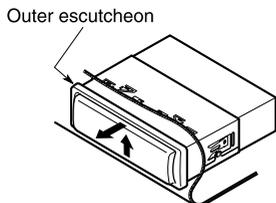


Figure 5

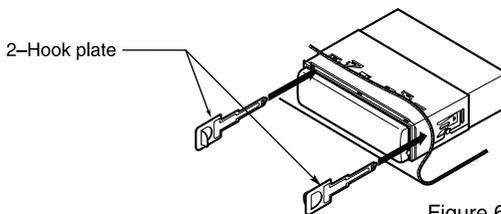
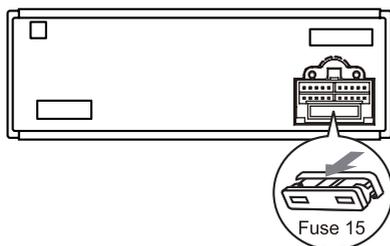


Figure 6

## 7. Cautions on Wiring

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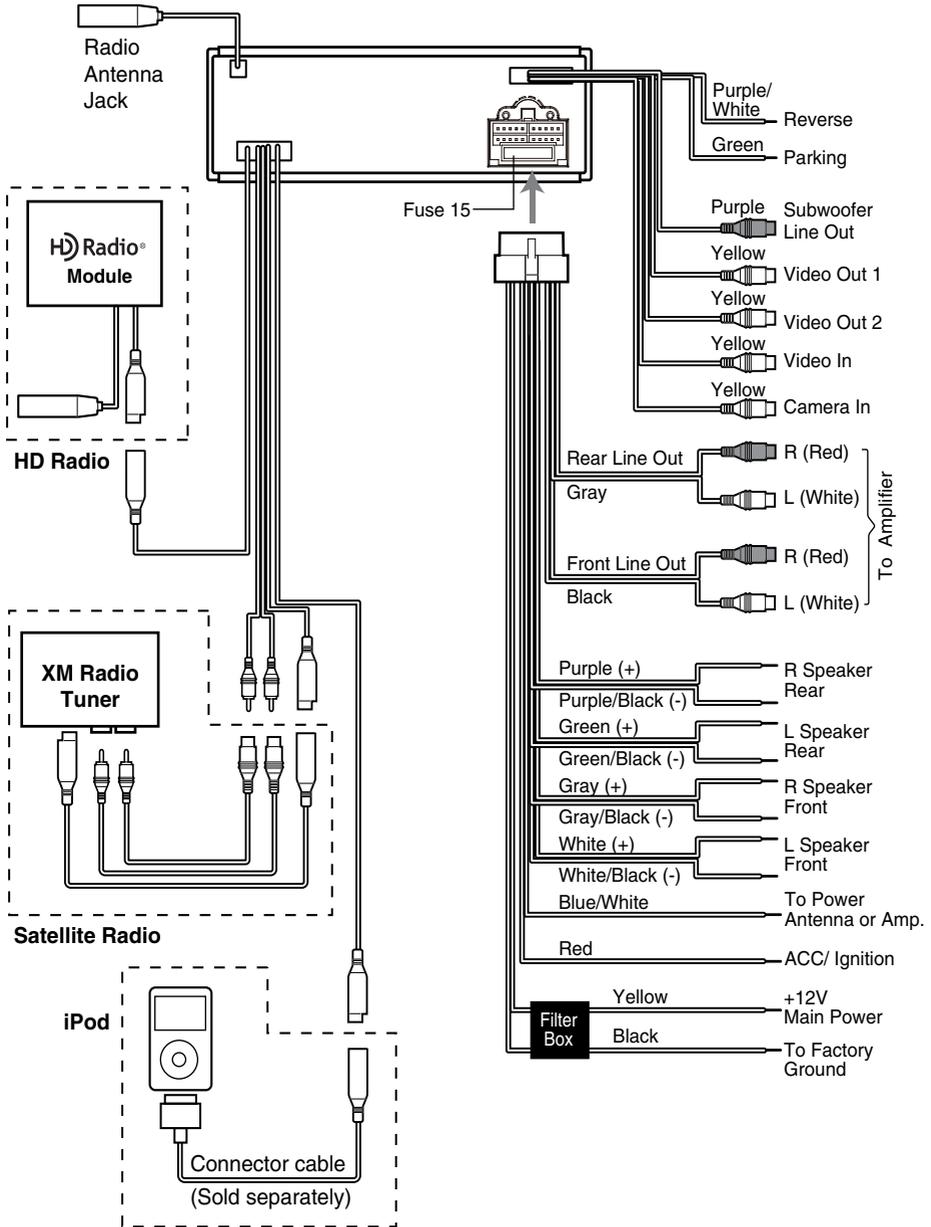
1. Be sure to turn the power off before wiring.
2. Be particularly careful where you route the wires.  
Keep them well away from the engine, and exhaust pipe, etc. Heat may damage the wires.
3. If the fuse should blow, check to see if the wiring is correct.  
If a fuse is blown, replace it with a new 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.



## 8. 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.

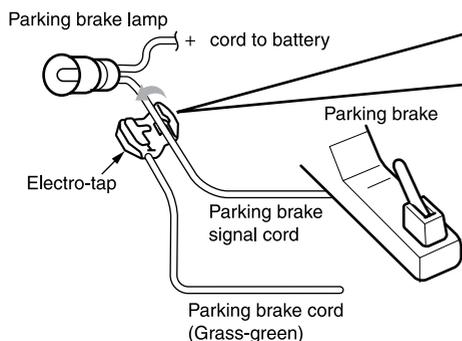


## Connecting the parking brake cord

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

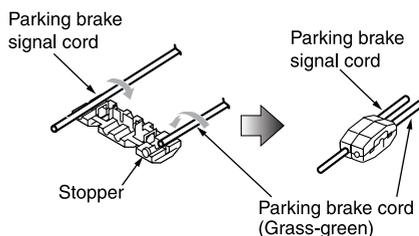
### Note:

- *Connecting the parking brake cord to lamp ground allows you to watch iPod 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.*



### 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.



## 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 device

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

### Note:

- *This unit may not support all functions of all iPod devices*
- *The iPod connection will charge your iPod unless the iPod 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 XM Satellite Radio Receiver

When a XM Satellite Radio Receiver is to be connected, use the dedicated connector. For detailed information, refer to the instruction manual of the XM Satellite Radio Receiver.

# **Clarion Corporation of America**

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