



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

**CMD8**

**WATERTIGHT MARINE CD/USB/MP3/WMA RECEIVER**  
**LECTEUR MARINE ÉTANCHE CD/USB/MP3/WMA**  
**RECEPTOR CD/USB/MP3/WMA MARINO, HERMÉTICO**

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For USA and Canada only  
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Congratulations on your purchase of a Clarion mobile electronic products. 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.

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Nous avons facilité la tâche d'enregistrement de produit simple et facile grâce à notre site Web. Le formulaire d'enregistrement est court et facile à compléter. Lorsque vous êtes enregistrer, nous pouvons vous tenir informé des informations important de produits.

Enregistrer à [www.clarion.com](http://www.clarion.com) - c'est facile de mettre à jour votre produit Clarion.

**INFORMACIÓN DEL REGISTRO DE PRODUCTO DE CLARION**

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Querido Cliente:

Felicitaciones por su compra de producto electrónico móvil de Clarion. Estamos seguros que usted gozará de su experiencia con el producto de Clarion.

Hay muchas ventajas al registrar su producto. Le invitamos a que visite nuestro sitio en internet [www.clarion.com](http://www.clarion.com) para registrar su producto de Clarion.

Hemos hecho el registro de producto fácil en nuestro sitio. La forma de registro es corta y fácil de completar. Una vez que lo registre, podremos proporcionarle la información de su producto.

Regístrese en [www.clarion.com](http://www.clarion.com) - es fácil mantener su producto de Clarion actualizado.

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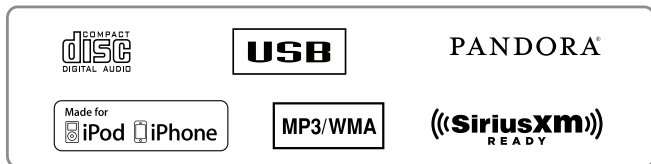
Thank you for purchasing this **Clarion** product.

- Please fully read this owner's manual before operating this equipment.
- Check the contents of the enclosed warranty card and store it in a safe place with this manual.

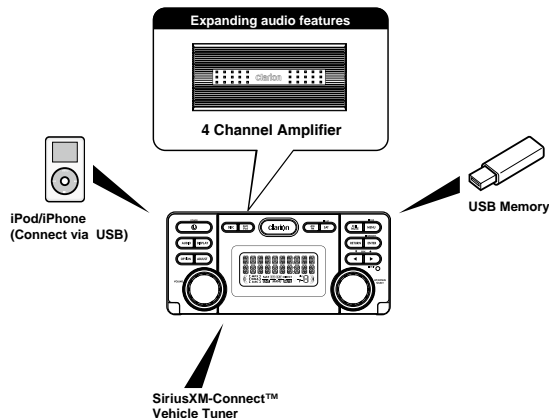
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# 1. FEATURES

- **Compatible with iPod® / iPhone® with Pandora® internet radio App**
- **SiriusXM-Ready™**
- **4ch RCA Output and BEAT-EQ with 3 Band Parametric Equalizer**



## Expanding Systems



### Note:

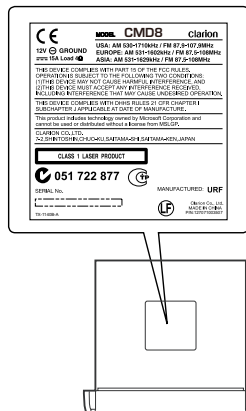
- The items listed only show connectivity options and are not included with the unit.
- CCA-750: Sold separately.

# 2. PRECAUTIONS

## ⚠ WARNING

For your safety, the driver should not operate the controls while driving. Also, while driving, keep the volume to a level at which external sounds can be heard.

1. When the interior of the boat is extremely cold and the player is used soon after switching on the heater, moisture may form on the disc or the optical parts of the player and proper playback may not be possible. If moisture forms on the disc, 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 surface can cause the disc to skip during playback.
3. This unit uses precision parts and components for its operation. In the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts. Contact your Clarion dealer or service center.
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 reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio technician for help.
5. "Made for iPod," and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. iPhone and iPod are trademarks of Apple Inc., registered in the U.S. and other countries.
6. Pandora, the Pandora logo and other Pandora marks are trademarks or registered trademarks of Pandora Media, Inc. or its subsidiaries worldwide. "If you have any issues with the Pandora application on your mobile phone, please direct them to [pandora-support@pandora.com](mailto:pandora-support@pandora.com)."
7. SiriusXM and all related marks and logos are trademarks of SiriusXM Radio, Inc. All rights reserved.



### INFORMATION FOR USERS:

Changes or modifications to this product unapproved by the manufacturer will void the warranty and will violate FCC approval.

### Front Panel / Generalities

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

- Do not allow any liquids on the unit from drinks, umbrellas, etc. Doing so may damage the internal circuitry.
- Do not disassemble or modify the unit in any way. Doing so may result in damage.
- Do not let cigarettes burn the display. Doing so may damage or deform the body.
- If a problem should occur, have the unit inspected at your store of purchase.
- The remote control unit may not work if the remote control sensor is exposed to direct sunlight.

### Cleaning the body

- Use a soft, dry cloth and gently wipe off any dirt or dust.
- 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, boat cleaner, etc., as these substances may damage the body or cause the paint to peel. Also, leaving rubber or plastic products in contact with the body for long periods of time may cause stains.

### USB Port

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

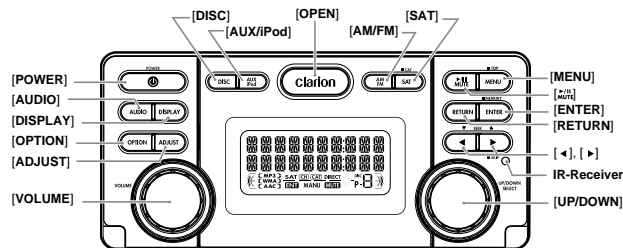
**When the memorized data is lost or damaged by any chance, Clarion shall not be liable for any damage.**

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

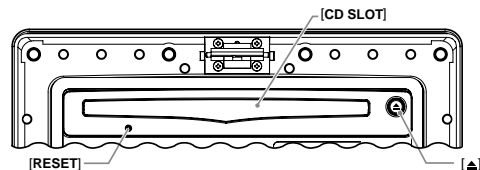
- Data files may be broken when using USB memory sticks in the following situation:  
When disconnecting the USB memory stick or turning the power off during reading data.  
When affected by static electricity or electric noise.  
Connect/disconnect the USB memory stick when it is not accessed.
- Connecting with the computer is not covered.

## 3. CONTROLS

### Operational Panel



With the front panel opened



### Names of Buttons

#### [POWER] button

- Press the button to turn on or off the power.

#### [AUDIO] button

- Press the button to enter the audio adjust mode.

#### [DISPLAY] button

- Press the button to switch the display indication.

#### [OPTION] button

- Press the button to enter the option mode.

#### [ADJUST] button

- Press the button to enter the adjust mode.

#### [VOLUME] knob

- Adjust the volume by turning the knob.

#### [DISC] button

- Use to switch to CD/MP3/WMA mode.

#### [AUX/iPod] button

- Use to switch to USB/iPod/Pandora mode or AUX mode.

#### [OPEN] button

- Open the panel by pressing the "Clarion" oval latch button. Audio will mute with the front panel open.

#### [AM/FM] button

- Use to switch to Radio mode.
- Switch the band.

#### [SAT] button

- Use to switch to SiriusXM mode.
- Switch the band.
- Press and hold the button to enter the Category Browsing mode.

## Names of Buttons

### [MENU] button

- RADIO** mode - Preset mode
- CD/MP3** mode - Folder search
- USB** mode - Folder search
- iPod** mode - iPod Menu / Top Menu (long press)
- Pandora** mode - Station select
- SiriusXM** mode - Preset mode / Direct Tune (Long Press)

### [MUTE] button

- Play or pause.
- Turn the mute on/off.

### [ENTER] button

- Confirm (press)
- Pandora** mode - Bookmark Track / Bookmark Artist (long press)

### [RETURN] button

- Press the button to return to the previous mode in some adjust operations.

### [◀], [▶] (Search) buttons

- Select a station while in the Radio mode / SiriusXM mode or select a track while in CD/MP3/WMA mode.
- Press and hold the button for (1 sec.) to switch to fast-forward/fast-reverse.
- Pandora** mode - [▶] Thumbs Up, [◀] Thumbs down / [▶] Skip (long press)

### [IR RECEIVER]

- Receiver for optional IR remote control unit.  
(Operating range: 30° in all directions)

### [UP/DOWN] knob

- Select folders while in MP3/WMA/USB mode.
- Select previous/next preset station in Radio/SiriusXM mode.

### [CD SLOT]

- CD insertion slot.

### [▲] (Eject) button

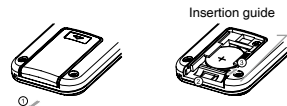
- Eject a CD when it is loaded into the unit.

### [RESET] button

- Press the button when the following symptoms occur.
  - \* Nothing happens when buttons are pressed.
  - \* Display is not accurate.
  - \* The settings will remain in the memory even if you turn the power off or press the reset button.

## Notes for use of Optional Remote Control

- Aim the remote control at the remote sensor on the unit.
- Remove the battery from the remote control or insert a battery insulator if the battery has not been used for a month or longer.
- DO NOT store the remote control under direct sunlight or in high temperature environment, or it may not function properly.
- Use "button shaped" lithium battery "CR2025" (3V) only.
- DO NOT subject battery to recharge, disassemble, heat or dispose in fire or water.
- Insert the battery in proper direction according to the (+) and (-) polarities.
- Store the battery in a place where children cannot reach to avoid the risk of accident.



## Remote Control (RCX001: Sold separately)

### [SRC / ◊] Button

- Toggle the audio source
- Power on / Power off (long press)

### [◀, ▶] Buttons

- Radio** mode - Preset station up or down / Search (long press)
- Previous / next track
- SiriusXM** mode - Preset up or down / Rapid tune (long press)
- Pandora** mode - Station up-down / skip track ([▶] long press)

### [SCN/PS/AS] Button

- Scan play / Preset scan
- Auto memory store (long press)
- Pandora** mode - Thumbs down
- SiriusXM** mode - Channel scan (in current category) / Preset scan (long press)

### [BAND/TOP] Button

- CD/MP3/WMA/USB** mode - Top play
- RADIO** mode - Select tuner band
- SiriusXM** mode - Select tuner band / Category Browsing mode (long press)

### [▲, ▼] Buttons

- Volume up / down

### [▶/II] Button

- Play / Pause

### [ISR] Button

- Recall ISR station stored in memory and store current station in ISR memory (long press)

### [DISP] Button

- Display switch

### [RDM] Button

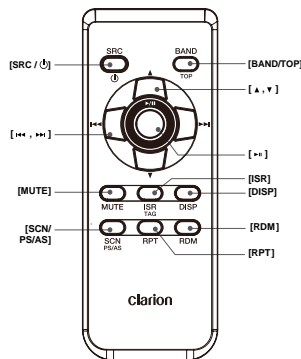
- Random play
- Pandora** mode - Thumbs up

### [RPT] Button

- Repeat play
- Pandora** mode - Bookmark track / Bookmark Artist (long press)

### [MUTE] Button

- Mute the volume

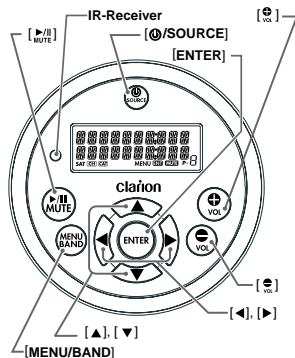


## Optional Wired Remote Control Unit Operations

Following operations are enabled by remote control with the separately sold Wired Remote Control Unit MW1 (shown below) or MW4.

### Note:

If the remote control is connected with this unit while the power on, please restart this unit again to confirm the normal display.



### CAUTION

Lower the volume level before powering the source unit off. The source unit stores the last volume setting.

### WARNING

EXPOSING THE UNIT TO WATER WITH THE FRONT PANEL OPEN WILL CAUSE DAMAGE OR UNIT MALFUNCTION!

### [⏻]/[SOURCE] button

- Press the [⏻]/[SOURCE] button to turn the power on and press and hold it (1 sec.) to turn the power off.
- Each time the [⏻]/[SOURCE] button is pressed, the mode switches.

### Note:

- If the above equipment is not connected, corresponding mode cannot be selected.

### [ENTER] button

- RADIO** mode – No function
- USB** mode – Confirm (in Menu mode)
- iPod** mode – Confirm (in Menu mode)
- AUX** mode – No function
- Pandora** mode – Bookmark Track / Bookmark Artist (long press) / Confirm (in Menu mode)
- SiriusXM** mode – Confirm ch (in Search mode)

### [VOL+], [VOL-] buttons

- Press the [VOL+] button to increase the volume.
- Press the [VOL-] button to decrease the volume.

### [◀], [▶] buttons

- RADIO** mode – Station up-down / Seek up - down (long press)
- USB** mode – Previous - next track / Fast forward-reverse (long press)
- iPod** mode – Previous - next track / Fast forward-reverse (long press)
- AUX** mode – No function
- Pandora** mode – Station up - down / skip track (▶) : Long press)
- SiriusXM** mode – Station up - down / Rapid tune up-down – (Long press) / Move cursor (direct mode) / Channel up - down in current category (Category mode)

## Optional Wired Remote Control Unit Operations

### [▲], [▼] buttons

- RADIO** mode – Preset station up / down
- USB** mode – Select (in Folder search mode)
- iPod** mode – Select (in Menu mode)
- AUX** mode – No function
- Pandora** mode – Thumbs up (▲) / Thumbs down (▼) / Select Serch mode / Select station (in Search mode)
- SiriusXM** mode – Preset channel up-down / Category up-down (in Category mode) / Numeric up-down (Direct mode)

### [MENU/BAND] button

- Each time the button is pressed, the band switches in the following order:

Radio : FM1 -> FM2 -> FM3 -> AM -> FM1.....

SiriusXM : SXM1 -> SXM2 -> SXM3 -> SXM1.....

- Press and hold the button to enter the Category Browsing mode. (in SiriusXM mode.)
- Press and hold the button, it will start from the first track. (in CD/MP3/WMA and USB modes)
- Press the [MENU] button to enter the list search mode. (in CD/MP3/WMA and USB modes)

### [MUTE] button

- RADIO** mode – Mute ON-OFF
- USB** mode – Play-Pause
- iPod** mode – Play-Pause
- AUX** mode – No function
- Pandora** mode – Play-Pause

### IR-Receiver

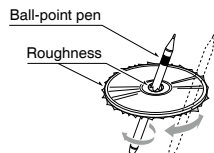
- Receiver for optional IR remote control unit. (Operating range: 30° in all directions)

## 4. CAUTIONS ON HANDLING

### 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 player or it may damage the 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 fingerprints 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

- Never turn off the power and remove the unit from the boat with a disc loaded.

#### CAUTION

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

## 5. OPERATIONS

### Basic Operations

#### Note:

- Refer to the diagrams in "3. CONTROLS" when reading this chapter.

#### CAUTION

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

#### Power on / off

##### Notes:

- 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 battery too far, you may not be able to start the engine and this can reduce the service life of the battery.
- Start the engine. The power button / knob illumination on the unit will light up.



- Press the [POWER / ⏻] button on the front panel or the [SRC / ⏻] remote control to turn on the power under standby mode. The unit goes back to the last status after power on.
- Press and hold the [POWER / ⏻] button on the front panel or the [SRC / ⏻] remote control to turn off the power.

#### Mute

Press the [MUTE] button on the remote control to mute the volume from the unit.

#### Note:

Doing the operation above again or adjusting volume will release muting.

#### Volume adjustment

Rotate the [VOLUME] knob on the front panel or press the [▲] or [▼] button on the remote control.

The adjustable range of volume is 0 to 40.

#### CAUTION

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

#### Playing source selection

Press the [DISC], [AUX/iPod], [AM/FM] or [SAT] button to change the operation mode.

- iPod or iPhone can connect to this unit via CCA-750 cable.

#### Display system time

Press the [DISPLAY] button on the front panel or the [DISP] remote control to switch the display information from clock, station information (radio mode), or track information (CD mode).

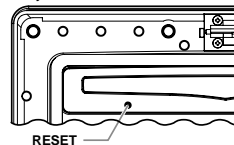
#### RESET

If you have following problems, please press [RESET] button.

- Unit can not power on
- Nothing happens when buttons are pressed
- Display is not accurate

#### Note:

- When the [RESET] button is pressed, preset radio stations, audio setting, etc. stored in memory are retained.



## System Setup

### To change adjustment setting

1. Press the [ADJUST] button to switch to the adjustment selection display.
2. Press the [◀] or [▶] button to select the "item name".  
CLOCK, DX/LO, SCRN SVR, SCROLL, REAR/S-W, SW PHASE, Pandora, DIMMER, CONTRAST, BEEP, 12/24H, RESET
3. Rotate the [UP/DOWN] knob to select the "desired setting value".  
\* In the case of display blinking "ENT", you can press the [ENTER] button to adjust the setting value.
4. After completing settings, press the [ADJUST] or [RETURN] button to return to the previous mode.

#### CLOCK

1. Press the [ENTER] button.
2. Press the [◀] or [▶] button to select the hour or the minute.
3. Rotate the [UP/DOWN] knob to set the correct time.  
\* The clock is displayed in 12-hour format by default.
4. Press the [ENTER] button to store the time into memory.

#### Note:

- You cannot set the clock when it is displayed with only the ignition on. If you drain or remove the boat's battery or take out this unit, the clock is reset. While setting the clock, if another button or operation is selected, the clock set mode is canceled.

#### DX/LO (RADIO mode)

Rotate the [UP/DOWN] knob to choose radio local or distant at RADIO mode.

- LO:** Only stations with strong signal can be received.
- DX:** Stations with strong and weak signals can be received.

#### SCRN SVR: ON/OFF

Rotate the [UP/DOWN] knob to choose SCRN SVR (screen saver) ON or OFF.

#### SCROLL: ON/OFF

For track information that is longer than the display panel:

When SCROLL is ON, the LCD will scroll the ID3 TAG information across the display, e.g.:  
TRACK->FOLDER->FILE->ALBUM->TITLE->ARTIST->TRACK->...

When SCROLL is OFF, the LCD will display one of the ID3 TAG information, the default is TRACK, but user can adjust it to other ID3 TAG information by pressing [DISPLAY] button.

#### REAR/S-W

Rotate the [UP/DOWN] knob to choose REAR or S-WOOFER (SUB-WOOFER).

#### SW PHASE

Rotate the [UP/DOWN] knob to choose SUBWOOFER phase REVERSE or NORMAL.

#### Pandora: ON/OFF

Select OFF if the Pandora application has not been installed on your iPod touch or iPhone.

#### DIMMER: ON/OFF

Rotate the [UP/DOWN] knob to choose DIMMER ON or OFF.

- ON:** LCD dimmer is active when small light of vehicle is turned ON.
- OFF:** LCD always maximum brightness regardless of the vehicle small light.

#### CONTRAST

You can adjust the display contrast to match the angle of installation of the unit.

\* The factory default setting is "9".  
(Adjustment level: 1 to 10)

Rotate the [UP/DOWN] knob to adjust the contrast.

## System Setup

#### BEEP: ON/OFF

Rotate the [UP/DOWN] knob to choose button beep sound ON or OFF.

#### 12/24H

Rotate the [UP/DOWN] knob to choose time format: 12 HOURS or 24 HOURS.

## Audio Setup

Press the [AUDIO] button to enter sound effect setting mode. First press shows current BEAT EQ setting. Rotate the [UP/DOWN] knob to changes BEAT EQ in this order:

OFF -> B-BOOST -> IMPACT -> EXCITE -> CUSTOM

Rotate the [UP/DOWN] knob to changes CUSTOM, and press the [ENTER] button, the press [◀] or [▶] button to select it including:  
BASS-G -> BASS-F -> BASS-Q -> MID-G -> MID-F -> MID-Q -> TREBLE-G -> TREBLE-F -> TREBLE-Q, rotate the [UP/DOWN] knob to select a value.

BASS-G / MID-G / TREBLE-G: (-7) - (+7)

BASS-F: 50 / 100 / 200

BASS-Q: 0.7 / 1.0 / 1.4 / 2.0

MID-F: 500 / 1K / 2K

MID-Q: 0.7 / 1.0 / 1.4 / 2.0

TREBLE-F: 5k / 10k / 15k

TREBLE-Q: 0.7 / 1.0 / 1.4 / 2.0

#### RESET

Long press [ENTER] button. Settings will be set to the default value.

Press the [AUDIO] button, then press [◀] or [▶] button to select USER preset including:  
BALANCE -> FADER -> M-B EX -> HPF (high pass filter) -> LPF (low pass filter) -> SUBW VOL (Subwoofer Volume), rotate the [UP/DOWN] knob to select a value.

BALANCE: LEFT 1-7 -> CENTER -> RIGHT 1-7

FADER: FRONT 1-7 -> CENTER -> REAR 1-7

M-BEX: ON / OFF

HPF: THROUGH / 60 / 90 / 120

LPF: THROUGH / 60 / 90 / 120

SUBW VOL: (-6) - (+6)



## Radio Operations

### Select tuner as playing source

Press **[AM/FM]** button once or more to enter **RADIO** mode.

### Changing the reception area

This unit is initially set to USA frequency intervals of 10 kHz for AM and 200 kHz for FM. When using it outside the USA, the frequency reception range can be switched to the intervals below.

		U.S. standard	Other countries	Europe standard
AM	Frequency spacing	10 kHz	9 kHz	9 kHz
	Frequency range	530 to 1,710 kHz	531 to 1,629kHz	531 to 1,602 kHz
FM	Frequency spacing	200kHz	50kHz	50kHz
	Frequency range	87.9 to 107.9MHz	87.5 to 108 MHz	87.5 to 108 MHz

### Setting the reception area

\* All station preset memories are lost when the reception area is changed.

1. Press the **[AM/FM]** button and select the desired radio band (FM or AM).
2. Press the **[OPTION]** button.
3. Press the **[◀]** or **[▶]** button to select "**TUN AREA**".
4. Rotate the **[UP/DOWN]** knob to select:
  - U: U.S. standard (initial setting)
  - K: Other countries
  - E: Europe standard
5. Press and hold the **[ENTER]** button to store the selecting.
  - The unit will turn off after setting.

### Selecting the radio band

Press the **[AM/FM]** button on the front panel or the **[BAND / TOP]** on the remote control to select one radio band among FM1, FM2, FM3, AM.

### Manual tuning

During manual tuning, the frequency will be changed in steps.

Press the **[◀]** or **[▶]** button on the panel to tune in a lower / higher station.

Press the **[◀◀]** or **[▶▶]** button on the remote control to select preset stations.

### Auto tuning

Press and hold the **[◀ / ▶]** button on the panel or **[◀◀ / ▶▶]** button on the remote control to seek a lower / higher station. To stop searching, repeat the operation above or press other buttons having radio functions.

#### Note:

When a station is received, searching stops and the station is played.

### Preset scan

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

1. Press the **[OPTION]** button.
2. Press the **[◀]** or **[▶]** button to select "**PRESET SCN**".
3. Press the **[ENTER]** button.
  - \* When a desired station is tuned in, press the **[ENTER]** button to continue receiving that station.

### Auto store

Only stations with sufficient signal strength will be detected and stored in the memory.

1. Press the **[AM/FM]** button and select the desired band (FM or AM).
2. Press the **[OPTION]** button.
3. Press the **[◀]** or **[▶]** button to select "**AUTO STORE**".
4. Press and hold the **[ENTER]** button (1 sec.) to start automatic station search. To stop auto store, press other buttons having radio functions.

#### Notes:

1. After auto store, the previous stored stations will be overwritten.
2. The unit has 4 bands, such as FM1, FM2, FM3 and AM. FM3 and AM can store by AS function. Each band can store 6 stations, M303 can store 24 stations in total.

## Radio Operations

### Manual store

1. Select the desired station with seek tuning or manual tuning.
2. Press the **[MENU]** button
3. Rotate the **[UP/DOWN]** knob to select a desired station.
4. Press and hold the **[ENTER]** button to store the current station into preset memory.

### Recall the stored stations

A total of 24 preset positions (6-FM1, 6-FM2, 6-FM3, 6-AM) exists to store individual radio stations in memory.

1. Press the **[AM/FM]** button and select the radio band.
2. Press the **[MENU]** button.
3. Rotate the **[UP/DOWN]** knob to select the desired preset station.
4. Press the **[ENTER]** button to recall the stored frequency.

#### Note:

After the band selecting, you can also rotate the **[UP/DOWN]** knob to select a desired preset station.

### Local seeking

When LOCAL seeking is ON, only those radio stations with strong radio signal could be received. To select LOCAL function, press the **[ADJUST]** button on the front panel or press and hold the **[DISP]** button on the remote control, then press **[▶]** button on the front panel or **[▶▶]** button on the remote control repeatedly until **DX / LO** displays on the screen, and rotate the **[UP/DOWN]** knob to select Local or Distant mode.

#### Note:

The number of radio stations that can be received will decrease after the local seeking mode is ON.

## SiriusXM Satellite Radio Operations

Everything worth listening to is on SiriusXM, getting over 130 channels, including the most commercial-free music, plus the best sports, news, talk and entertainment. To start listening to the SiriusXM™ Satellite Radio, a SiriusXM Vehicle Tuner (purchased separately) and Subscription are required.

### Displaying the Radio ID

Before you listen to satellite radio, you must subscribe to the service using the SiriusXM Radio ID number.

1. Press **[SAT]** button to activate SiriusXM-mode.
2. Press the **[◀ / ▶]** button on the front panel or the marine wired remote control to select channel "0". The unit displays Radio ID.

#### Notes:

1. The Radio ID is located on the bottom of the SiriusXM Connect Vehicle Tuner.

2. Please note that the SiriusXM Radio ID does not include the letters I, O, S or F.
3. Activate the SiriusXM Connect Vehicle Tuner using one of the two methods below:
  - Online: Go to "www.siriusxm.com/activatenow".
  - Phone: Call 1-866-635-2349.
  - To activate SiriusXM Canada service go to [www.xmradio.ca](http://www.xmradio.ca) and click on "ACTIVATE RADIO" in the top right corner, or call 1-877-438-9677

### Storing Channel Presets

1. Press **[SAT]** button on the front panel or the **[BAND / TOP]** on the remote control or the **[MENU / BAND]** on the marine wired remote control to select the desired band you want to store the preset in. There are 3 Satellite Radio Preset bands. Each press of **[SAT]** or **[BAND / TOP]** or

## SiriusXM Satellite Radio Operations

- [MENU / BAND] changes the band:  
 SXM1 -> SXM2 -> SXM3 -> SXM1
2. Tune to the desired channel and then press [MENU] button on the front panel to enter PRESET mode, and select desired preset number by rotating [UP/DOWN] knob on the front panel or pressing the [▲ / ▼] on the marine wired remote control. Press and hold [ENTER] key on the front panel to store current channel.
  3. Repeat the procedure to store up to 5 other channels on to the same band.

### Note:

- A total of 18 channels can be stored in the preset memory, 6 channels for each band (SXM1, SXM2 and SXM3).

### Tuning Channels using Presets

1. Press [SAT] button on the front panel or the [BAND / TOP] on the remote control or the [MENU / BAND] on the marine wired remote control to select the desired band of Presets you wish to access.
2. Press the [MENU] button.
3. Rotate the [UP/DOWN] knob on the front panel or press the [▲ / ▼] button on the marine wired remote control to select the desired preset station.
4. Press the [ENTER] button on the front panel.

### Note:

- After the band selecting, you can also rotate the [UP/DOWN] knob on the front panel or press the [▲ / ▼] on the marine wired remote control to select a desired preset channel.

### Category Browsing

1. Press and hold [SAT] button on the front panel or [BAND / TOP] button on the remote control to activate the Category Browsing mode, or press and hold [MENU / BAND] button and press [ENTER] on marine wired remote control to activate the Category Browsing mode.
2. Rotate the [UP/DOWN] knob on the front panel or press the [▲ / ▼] button on the

marine wired remote control to select desired category.

3. Press the [◀ / ▶] button on the front panel or the marine wired remote control or [◀◀ / ▶▶] button on the remote control to select desired channel within the selected Category. You can see channel name, channel number, artist, title or content by pressing [DISPLAY].
4. Press [ENTER] on the front panel or marine wired remote control to tune to selected channel.

### Note:

If no operation is performed for 10 seconds, the Category Browsing mode is canceled.

### Preset scan

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

1. Press the [OPTION] button.
2. Press the [◀] or [▶] button to select "PRESET SCN".
3. Press the [ENTER] button on the front panel.
  - \* When a desired station is tuned in, press the [ENTER] button on the front panel to continue receiving that station.

### Channel scan (in current category)

Channel scan receives the channel (in current category) in order. This function is useful when searching for a desired channel in current category.

- This function is available in the category browsing mode.
1. Press and hold the [SAT] button (1 sec.) to enter "CAT MODE".
  2. Press the [OPTION] button, then "CAT SCN" appears on the display.
  3. Press the [ENTER] button on the front panel.
    - And start the category scanning.

### Note:

- Category scanning is not available when no category is defined for the current channel.

## SiriusXM Satellite Radio Operations

### Changing the Display

Text information, such as the channel name, artist name/feature, song/program title and content is available with each SiriusXM channel. The unit can display this text information as explained below.

1. In SiriusXM mode, press [DISPLAY] button.
  - Each time you press this button, the display changes as shown below.
  - Band/Channel number/channel name => Artist Name => Song Title=> Content Info => Category Name => Clock => Band/Channel number/channel name
  - \* If there is no text information, nothing will be displayed.

### Parental Lock / Unlock

The SiriusXM Parental Control feature allows you to control access to channels that you consider inappropriate for younger listener.

When enabled, the Parental Control feature requires you to enter a password to tune to the locked channels. Information on setting up the password, setting up the channels to be locked, and the method to access the locked channels is described below.

1. For setting up the password, press the [OPTION] and [▶] button to select "PARENTAL PASSWORD". Press [ENTER] button to change password. Enter old password, new password. To enter code, rotate [UP/DOWN] knob to decide number and [◀] or [▶] to select digit. Each time you need to press [ENTER] knob to confirm password. (Original password is "0000")

2. For setting up the channels to be locked, press the [OPTION] and [▶] button during tuning to the desired channel, and select "LOCK CH" and press [ENTER] knob to start to lock channel. You will be asked to input password. Enter password and "LOCK" will be displayed if it is successful.
3. For unlocking the locked channel, press the [OPTION] and [▶] button to select "UNLOCKCH". Enter password and you can unlock the channel.
4. For unlocking all locked channels, press the [OPTION] and [▶] button to select "UNLOCK ALL CH". Enter password and you can unlock all the channels.
5. For accessing the locked channels, select channel by "DIRECT SELECT". Press and hold [MENU] and select "DIRECT SELECT" by pressing [ENTER] button. Input desired locked channel (need to input 3 digit) and input password, then you can tune to that locked channel.

## CD/MP3/WMA Operations

### This unit can playback MP3/WMA files

#### Note:

- If you play a WMA file with active DRM (Digital Rights Management), there will be no audio.

#### To disable DRM (Digital Rights Management)

When using Windows Media Player 9/10/11, click on Tool -> Options -> Copy Music tab, then under Copy settings, unclick the Check box for copy project music. Then, reconstruct files.

Personally constructed WMA files are used at your own responsibility.

### Precautions when creating MP3/WMA file

#### Usable sampling rates and bit rates

- MP3: Sampling rate 8 kHz-48 kHz, Bit rate 8 kbps-320 kbps / VBR
- WMA: Bit rate 8 kbps-320 kbps

#### File extensions

- Always add a file extension "MP3", "WMA" to MP3, WMA file by using single byte letters. If you add a file extension other than specified or forget to add the file extension, the file cannot be played.
- Files without MP3/WMA data will not play. The files will not play if you attempt to play files without MP3/WMA data.
- When VBR files are played, the play time display may differ the play location.
- When MP3/WMA files are played, a little no sound part is caused between tunes.

#### Logical format (File system)

- When writing MP3/WMA file on a CD-R disc or CD-RW disc, please select "ISO9660 level 1, 2 or Joliet" or Apple ISO as the writing software format. Normal play may not be possible if the disc is recorded on another format.
- The folder name and file name can be

displayed as the title during MP3/WMA play but the title must be within 32 single byte alphabetical letters and numerals (including an extension).

- Do not affix a name to a file inside a folder having the same name.

#### Folder structure

A disc with a folder having more than 8 hierarchical levels will be impossible.

#### Number of files or folders

- Up to 999 files can be recognized per folder.  
Up to 3000 files can be played.
- Tracks are played in the order that they were recorded onto a disc. (Tracks may 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.

### Eject function

Just pressing the [EJECT] button, ejects the disc.

#### Notes:

- If you force a CD into before auto reloading, this can damage the CD.
- If a CD (12 cm) is left ejected for 15 seconds, the CD is automatically reloaded (Auto reload).

### Listening to a disc already loaded in the unit

Press the [DISC] button to select the CD/MP3/WMA mode.

When the unit enters the CD/MP3/WMA mode, play starts automatically.

### Loading a CD



Press the [OPEN] button to access the CD SLOT behind the front panel.

Insert a CD into the center of the CD SLOT with label facing up. The CD plays

## CD/MP3/WMA Operations

automatically after loading.

#### Notes:

- Never insert foreign objects into the CD SLOT.
- If the CD is not inserted easily, there may be another CD in the mechanism or the unit may require service.
- Discs without the  or  mark and CD-ROMs cannot be played by this unit.
- Some CD-R/CD-RW discs may not be usable.
- Close the front panel.  
\* Press the center of the front panel to close.

### Pausing play

- Press the [PAUSE] button to pause play. "PAUSE" appears in the display.
- To resume CD play, press the [PAUSE] button again.

### Displaying CD titles

This unit can display title data for MP3/WMA disc.

When SCROLL is OFF, each time you press the [DISPLAY] button to change the title display.

#### MP3/WMA disc

FILE->FOLDER->TITLE->ARTIST->ALBUM->TRACK->FILE ...

#### Notes:

- If MP3/WMA disc has no ID3 TAG, "NO TITLE" appears in the display.
- Only ASCII characters can be displayed in Tags.

### Selecting a track

#### Track-up

- Press the [FWD] button to move ahead to the beginning of the next track.
- Each time you press the [FWD] button, the track advances ahead to the beginning of the next track.

#### Track-down

- Press the [REV] button to move back to the beginning of the current track.
- Press the [REV] button twice to move back to the beginning of the previous track.

### Fast-forward/Fast-reverse

#### Fast-forward

Press and hold the [FWD] button.

#### Fast-reverse

Press and hold the [REV] button.

- For MP3/WMA discs, it takes some time until the start of searching and between tracks. In addition, some errors may occur in the play time.

### Folder Select

This function allows you to select a folder containing MP3/WMA files and start playing from the first track in the folder.

Rotate the [UP/DOWN] knob to select a folder.

### Search Function

- Press the [MENU] button to enter FOLD SCH mode. Press the [ENTER] button to enter the folder list search mode.
- Rotate the [UP/DOWN] knob to select a folder.
- Press the [ENTER] button to enter the file list search mode. And then the track list appears in the display.
- Rotate the [UP/DOWN] knob to select a track.
- Press the [ENTER] knob to play.
- When play back MP3 / WMA file, this function is performed in the current folder.

### Top function

The top function resets the CD player to the first track of the disc. Press and hold the [MENU] button (1 sec.) to play the first track (track No. 1) on the disc.

- In case of MP3/WMA, the first track of the current folder will be played.

## CD/MP3/WMA Operations

### Other various play functions

Press the **[OPTION]** button.

#### Scan play

This function allows you to locate and play the first 10 seconds of all the tracks recorded on a disc.

- Press the **[◀]** or **[▶]** button to select "SCN".
- Rotate the **[UP/DOWN]** knob to select "ON" or "OFF".
- Press the **[ENTER]** button.

#### Repeat play

This function allows you to play the current track repeatedly or play a track currently being played in the MP3/WMA folder repeatedly.

#### CD:

- Press the **[◀]** or **[▶]** button to select "RPT".

- Rotate the **[UP/DOWN]** knob to select "ON" or "OFF".
- Press the **[ENTER]** button.

#### MP3/WMA:

- Press the **[◀]** or **[▶]** button to select "RPT".
- Rotate the **[UP/DOWN]** knob to select "OFF", "TRK" or "FOLD".
- Press the **[ENTER]** button.

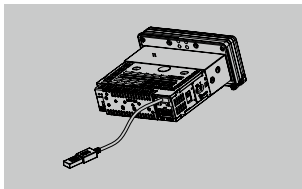
#### Random play

This function allows you to play all tracks recorded on a disc in a random order.

- Press the **[◀]** or **[▶]** button to select "RDM".
- Rotate the **[UP/DOWN]** knob to select "ON" or "OFF".
- Press the **[ENTER]** button.

## USB Operations

- Insert a USB device into the rear of the unit USB cable.  
When connecting a USB device, the unit will read the files automatically.
- To remove the USB device, you should first select another source or turn off the power, in order to avoid damaging the USB device. Then take off the USB device.
- Operation is same as MP3/WMA operation.



## iPod & iPhone Operations

### Connect

Connect an iPod or iPhone to the USB connector via CCA-750 cable. When connecting a device, the unit will read the files automatically. The track information displays on the screen once playback starts.

### MENU

In the S-CTRL OFF mode, press **[MENU]** button, rotate the **[UP/DOWN]** knob select "MUSIC" or "VIDEO".

Select "MUSIC", press the **[ENTER]** button, then rotate the **[UP/DOWN]** knob to select PLAYLISTS / ARTISTS / ALBUMS / SONGS / GENRES / COMPOSERS, and press the **[ENTER]** button to confirm.

Select "VIDEO", press the **[ENTER]** button, then rotate the **[UP/DOWN]** knob to select MOVIES / MUSIC VIDEOS / TV SHOWS / VIDEO PODCASTS / RENTALS, and press the **[ENTER]** button to confirm.

To exit the category selecting.

- Press the **[◀]** button to back previous subfolder list in iPod menu.
- Press and hold (1sec) **[MENU]** button to back top of iPod menu "MUSIC/VIDEO".

#### Note:

VIDEO MENU item is different by the model of connected iPod and language setting.

### Repeat play

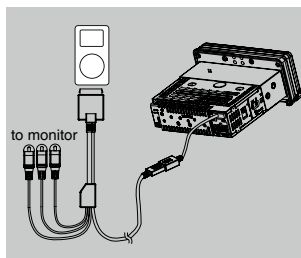
This function allows you to play the current track repeatedly or play all tracks in your iPod/iPhone repeatedly.

- Press the **[OPTION]** button.
- Press the **[◀]** or **[▶]** button on the front panel or the marine wired remote control or **[◀▶]** button on the remote control to select "RPT".
- Rotate the **[UP/DOWN]** knob to select "ON" or "OFF".
- Press the **[ENTER]** button.

### Random play

This function allows you to play all tracks recorded on a disc in a random order.

- Press the **[OPTION]** button.



- Press the **[◀/▶]** button on the front panel or the marine wired remote control or **[◀▶]** button on the remote control to select "RDM".
- Rotate the **[UP/DOWN]** knob to select "ALBUM", "SONG" or "OFF".
- Press the **[ENTER]** button.

### Setting iPod simple control mode

Use this function if you wish to operate through your iPod connected to this unit via the USB cable.

\* The factory default setting is "OFF".

- Press the **[OPTION]** button.
- Press the **[◀/▶]** button on the front panel or the marine wired remote control or **[◀▶]** button on the remote control to select "S-CTRL".
- Rotate the **[UP/DOWN]** knob to select "ON" or "OFF".
  - ON: Operations are made through your iPod.
  - OFF: Operations cannot be made through your iPod.

#### Notes:

- When performing iPod operations using simple control mode, make the operations slowly. If repetitive operations are performed too quickly, unforeseen errors may occur.
- When performing iPod operations using simple control mode, please do not

## iPod & iPhone Operations

operate the iPod and the unit at the same time, otherwise there may be unexpected event happened.

- Some iPod models do not support this function. Consult your nearest Clarion dealer or website to confirm which models do not support this function.

### iPod menu alphabet search

This function searches the subfolders for desired alphabetical letters.

- Press the [MENU] button to select the iPod menu mode.
- Press the [ENTER] button to switch between categories.  
MUSIC: PLAYLISTS, ARTISTS, ALBUMS, SONGS, GENRES, COMPOSERS  
VIDEO: MOVIES, MUSIC VIDEOS, TV SHOWS, VIDEO PADCASTS, RENTALS
- Press the [ENTER] button. (The contents of the category are displayed.)
- Press and hold the [DISPLAY] button (1 sec.).
- Rotate the [UP/DOWN] knob to select the desired letter to search.
- Press the [DISPLAY] button again to next perform search.
- Press the [ENTER] button to confirm.

### Listening to Pandora®

You can stream Pandora internet radio by connecting an iPhone/iPod that has the Pandora mobile application already installed.

To start streaming, connect the iPod/iPhone with Pandora already launched.

When the unit displays "PLEASE LAUNCH Pandora APPLICATION ON MOBILE DEVICE" in Pandora mode, please launch the Pandora Application by operating the iPod/iPhone connected.

- Press the [AUX/iPod] button to enter the Pandora mode.

### Selecting a station from list

Press the [MENU] button and select "BY DATE" or "A-Z" by rotating the [UP/DOWN] knob and press the [ENTER] button.

- BY DATE: List in an created date order
- A-Z: List in an alphabetical order

### Go to next station or previous station(an alphabetical order)

Press the [▶] button on the front panel or the marine wired remote control or [▶▶] button on the remote control to go to next station.

Press the [◀] button on the front panel or the marine wired remote control or [◀◀] button on the remote control to go to previous station.

### Thumbs up/down

Thumbs up:

press the [▶] button on the front panel or the [▲] button on the marine wired remote control or the [RDM] button on the remote control for thumbs up. Giving a track the thumbs up will tell Pandora to play more tracks like that one.

Thumbs down:

press the [◀] button on the front panel or the [▼] button on the marine wired remote control or the [SCN] button on the remote control for thumbs down. Giving a track the thumbs down will skip to the next track (subject to skip limit), and Pandora will remember not to play that track on the station again.

### Notes:

- You can personalize your stations by "thumbs up" or "thumbs down".
- If you give a track the thumbs down after the skip limit has been exceeded, your feedback will be saved but the current track will continue to play.

### BOOKMARK artist or song

Short-press the [RPT] button on the remote control to Bookmark track.

Long-press the [RPT] button on the remote control to Bookmark current artist of the track.

### Skip

Press and hold the [▶] button on the front panel or the marine wired remote control or press and hold the [▶▶] button on the remote control for the next tracks in station.

## iPod & iPhone Operations

### Note:

- Pandora limits the number of skips allowed on their service. If you attempt to skip tracks beyond the limit, "SKIP LIMIT" is displayed.

### Play/Pause

Press the [▶/⏸] button on the front panel or the marine wired remote control or the [▶/⏸] button on the remote control for play / pause.

## AUX Operations

The rear AUX terminals of this system is provided to allow playback of sounds and music from external devices connected to this unit.

Press [AUX/iPod] button on the panel to select "AUX".

### AUX Input sensitivity setting

Make the following settings to select the sensitivity when sounds from external devices connected to this unit are difficult to hear even after adjusting the volume.

- The factory default setting is "MID".

- Press the [OPTION] button.
- "AUX SENS" appears in the display.
- Rotate the [UP/DOWN] knob to select "HIGH", "MID" or "LOW".

### Note:

- When AUX mode is selected, AUX IN sensitivity can be set.

## 6. TROUBLE SHOOTING

### GENERAL

Problem	Cause	Measure
Unit can not power on.	Unit fuse blown.	Replace with new fuse of correct rating.
	Boat battery fuse blown.	Replace with new fuse of correct rating.
Unit can not power on. 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 front panel. Press the <b>[RESET]</b> button with a thin rod.  Note: When the <b>[RESET]</b> button is pressed, turn off the ACC power.*  * When the <b>[RESET]</b> button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.
No/low audio output.	Improper audio output connection.	Check wiring and correct.
	Volume set too low.	Increase volume level.
	Speakers damaged.	Replace speakers.
	Heavily biased volume balance.	Adjust the channel balance to center position.
	Speaker wiring is in contact with metal part of boat.	Insulate all speaker wiring connections.
Poor sound quality or distortion.	Non-standard disc used.	Use a standard disc.
	Speaker power rating does not match unit.	Replace speakers.
	Wrong connections.	Check wiring and correct.
	Speaker is shorted.	Check wiring and correct.
Unit resets itself when engine is off.	Incorrect connection between ACC and Battery.	Check wiring and correct.

### DISC Player

Problem	Cause	Measure
Disc cannot be loaded.	Another disc is already loaded.	Eject the disc before loading the new one.
	There is an object installed inside the unit.	Remove the object inside the unit.
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 when power is first turned on.	Condensation may form on the internal lens when the boat is parked in a humid place.	Let dry for about 1 hour with power on.

### USB

Problem	Cause	Measure
USB device cannot be inserted.	The USB device has been inserted with wrong direction.	Reversing the connection direction of the USB device, try it again.
	The USB connector is broken.	Replace with a new USB device.
USB device is not recognized.	The USB device is damaged.	Disconnect the USB device and reconnect. If the device is still not recognized, try replacing with a different USB device.
	Connectors are loose.	
No sound heard with the display <b>"No File"</b> shown.	No MP3/WMA file is stored in the USB device.	Store these files properly in the USB device.
Sound skips or is noisy.	MP3/WMA files are not encoded properly.	Use MP3/WMA files encoded properly.

### SiriusXM Advisory Messages

Message	Description
CHEK TUNER	Check the SiriusXM tuner connection on the back of the unit to ensure that its correctly connected.
CHK ANTENA	Ensure the SiriusXM antenna cable is connected to the SiriusXM tuner correctly. Check the SiriusXM antenna wire for breaks or sharp bends. Replace the antenna if necessary. Press <b>RESET</b> located..... If the message remains, the antenna may have been damaged.
NO SIGNAL	The vehicle must be outside, and the antenna must have a clear view of the southern sky. The magnetic antenna must be mounted on the outside of the vehicle for the best reception.
CHAN UNSUB	This channel is not included in your SiriusXM subscription plan. Call 1-866-635-2349 to subscribe.
CH UNAVAIL	This channel is not a valid SiriusXM channel. The channel number has been entered incorrectly, or the channel was removed from the SiriusXM channel lineup.
CH LOCKED	The selected channel has been locked by the parental controls, or a mature channel has been selected. A prompt to enter the unlock code will appear. Enter the unlock code as described on page 10.
SUBSCRIPTN UPDATED	An update to your SiriusXM subscription has been received by the SiriusXM tuner. Press any button to continue.

## 7. ERROR DISPLAYS

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

Display	Cause	Measure
ERROR 3	Disc is inserted incorrectly.	Eject the disc then reload it properly.
	The disc format is not supported.	Try another disc.
ERROR 5	This is a failure of deck's mechanism.	Consult your store of purchase.

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.

## 8. SPECIFICATIONS

### FM Tuner

Frequency Range:  
 USA: 87.9 MHz to 107.9 MHz  
 Europe: 87.5 MHz to 108.0 MHz  
 Others: 87.5 MHz to 108.0 MHz  
 Usable Sensitivity: 8 dB $\mu$ V  
 Alternate Channel Selectivity: 60 dB  
 Stereo Separation (1 kHz): 30 dB  
 Frequency Response ( $\pm 3$  dB):  
 30 Hz to 15 kHz

### AM Tuner

Frequency Range:  
 USA: 530 kHz to 1710 kHz  
 Europe: 531 kHz to 1602 kHz  
 Others: 531 kHz to 1629 kHz  
 Usable Sensitivity: 28 dB $\mu$ V

### CD Player

System: Compact disc digital audio system  
 Usable Discs: Compact disc  
 Frequency Response ( $\pm 1$  dB):  
 20 Hz to 20 kHz  
 Signal/Noise ratio: 94 dB  
 Harmonic Distortion: 0.1%

### MP3/WMA mode

MP3 sampling rate: 8 kHz to 48 kHz  
 MP3 bit rate: 8 kbps to 320 kbps / VBR  
 WMA bit rate: 8 kbps to 320 kbps  
 Logical format: ISO9660 level 1.2  
 Joliet file system

### USB

Specification: USB 1.0/2.0  
 Playable audio format:  
 MP3(.mp3): MPEG 1/2/Audio Layer-3  
 WMA(.wma): Ver 7/8/9.1/9.2

### Audio Amplifier

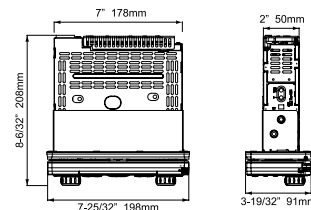
Maximum Power Output:  
 180 W (45 W  $\times$  4 ch)  
 Bass Control Action (100 Hz):  
 +14 dB, -14 dB  
 Treble Control Action (10 kHz):  
 +12 dB, -12 dB  
 Line Output Level (CD 1 kHz): 2 V

### Input

Audio input sensitivity:  
 High: 320mV (at 1V output)  
 Mid: 650mV (at 1V output)  
 Low: 1.3V (at 1V output)  
 (input impedance 10 k $\Omega$  or greater)  
 Aux-in level:  $\leq 2V$

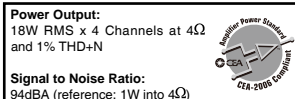
### General

Power supply voltage:  
 14.4VDC (10.8 to 15.6V allowable),  
 negative ground  
 Pre-Amp output voltage:  
 2.0V (CD play mode: 1kHz, 0dB, 10k $\Omega$  load)  
 Fuse: 15A  
 Dimensions of the Main Unit:  
 198mm Width  $\times$  91mm Height  $\times$  208mm Depth  
 7-25/32(width)  $\times$  3-19/32(Height)  $\times$   
 8-6/32(Depth)  
 Weight of the Main Unit: 4.19 lb. (1.90 kg)  
 Dimensions of the Remote Control unit:  
 43mm Width  $\times$  11mm Height  $\times$  113mm Depth  
 1-2/3(Width)  $\times$  2/5(Height)  $\times$  4-2/5(Depth)  
 Weight of the Remote Control Unit:  
 1.16oz. (36g) (including battery)



### Note:

- Specifications and design are subject to change without notice for further improvement.



## 9. INSTALLATION / WIRE CONNECTION GUIDE

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### 1) Before Starting

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

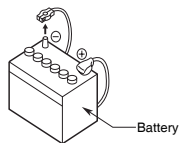


Figure 1

### 2) Package Contents

Source unit .....	1	Screws M4x30 mm .....	6
Hole block seal (black) .....	1	Power supply cable .....	1
Support strap .....	1	Owner's manual .....	1
M4 Nut .....	1	Warranty card .....	1
M4 washer .....	2	Installation template .....	1

### 3) General Cautions

1. Do not open the case. There are no user serviceable parts inside. If you drop anything into the unit during installation, consult your dealer or an authorized **Clarion** service center.
2. Use a soft, dry cloth to clean the case. Never use a rough cloth, thinner, benzine, or alcohol etc. For tough dirt, apply a little cold or warm water to a soft cloth and wipe off the dirt gently.

### 4) Cautions on Installation

1. Prepare all articles necessary for installing the source unit before starting.
2. Install the unit within 30° of the horizontal plane. (Figure 2)
3. If you have to do any work on the boat body, such as drilling holes, consult your boat dealer beforehand.
4. Use the enclosed screws for installation. Using other screws can cause damage. (Figure 3)

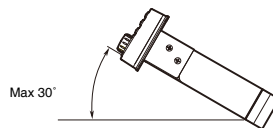


Figure 2

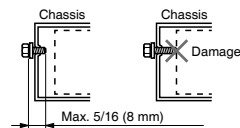


Figure 3

### 5) Installing the Source Unit

#### • Marine stereo mounting dimensions

Using the supply template to cut the hole and drill the holes. (Figure 4)

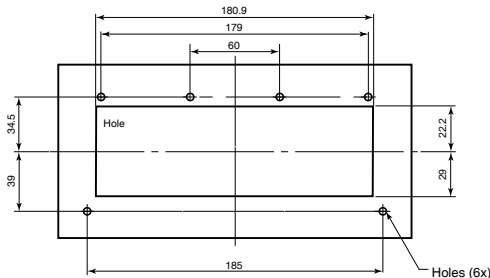


Figure 4

**CAUTION**  
Drill appropriately prepared holes at the 6 places for fixing the screw depending on the materials and plate thickness of the panel.



1. Insert the source unit into the cutout hole until to the end. (Figure 5)
2. Using the supply screws (4 × 30) to secure the source unit. (Figure 5)
3. Using support strap to secure the source unit on the back side by supply M4 nut. (Figure 5)

#### Notes:

1. Some boat models require special mounting kits for proper installation. Consult your **Clarion** dealer for details.

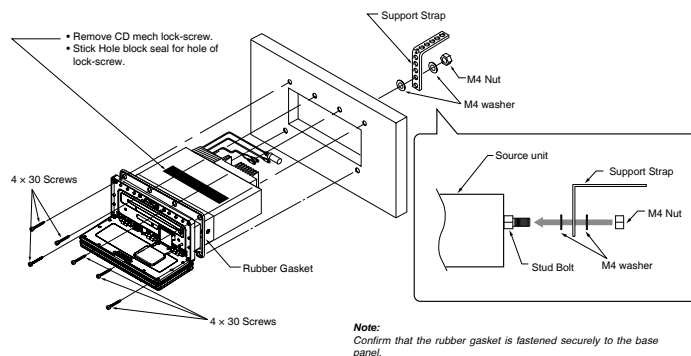


Figure 5

## 6) Cautions on Wiring

1. Be sure to turn the power off when wiring.
2. Be particularly careful where you route the wires. Keep them well away from the engine, exhaust pipe, etc. Heat may damage the wires.
3. If the fuse should blow, check that the wiring is correct. If it is, replace the fuse with a new one with the same amperage rating as the original one.
4. To replace the fuse, open the lock on the source unit side, remove the old fuse and insert the new one. (Figure 6)

\* There are various types of fuse cases. Do not let the battery side terminal touch other metal parts.

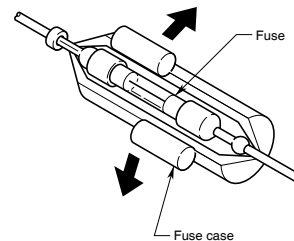
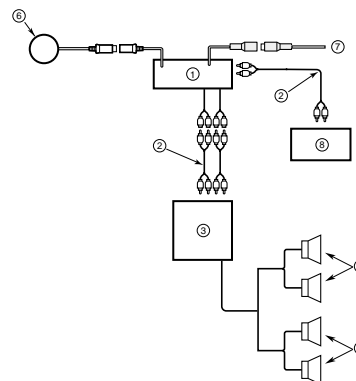


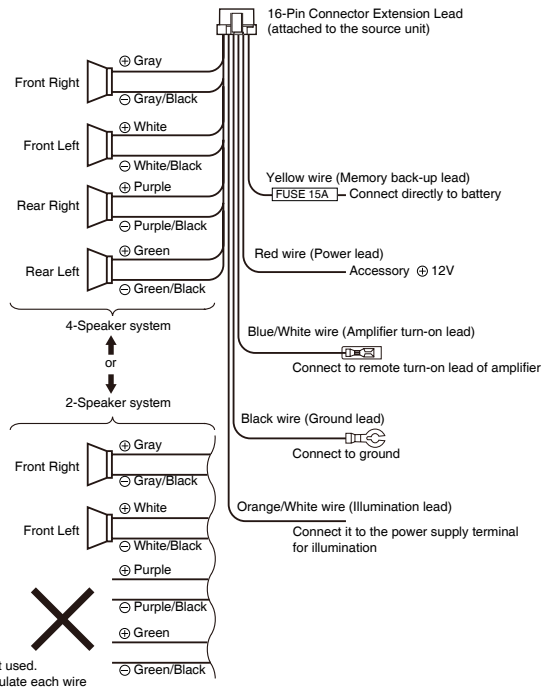
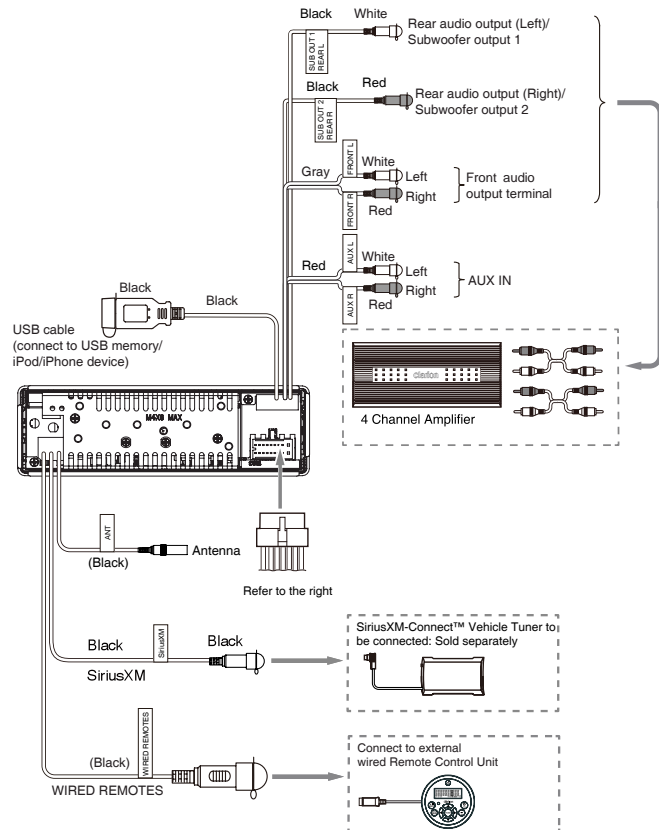
Figure 6

## 7) Sample Systems



1	Source unit
2	RCA extension cable (sold separately)
3	4-Channel power amplifier
4	Front speakers
5	Rear speakers
6	Wired remote control unit
7	SiriusXM-Connect Vehicle Tuner
8	AUX

## 8) Wiring and Connections



## 9) Connecting the accessories

### • Connecting to the external amplifier

External amplifiers can be connected to the 4 channel RCA output connections. Ensure that the connectors are not grounded or shorted to prevent damage to the unit.



English:

Declaration of conformity

We Clarion declares that this model CMD8 is following the provision of Directive 1999/5/EC with the essential requirements and the other relevant regulations.

Français:

Déclaration de conformité

Nous, Clarion, déclarons que ce modèle CMD8 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Español:

Declaración de conformidad

Clarion declara que este modelo CMD8 cumple con los requisitos esenciales y otras disposiciones aplicables descritos en la Directiva 1999/5/CE.

# Clarion Co., Ltd.

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