

clarion®

Owner's manual & Installation manual

CMS3

**MARINE DIGITAL MEDIA BLACK BOX RECEIVER
WITH WATERTIGHT REMOTE**

CLARION PRODUCT REGISTRATION INFORMATION

For USA and Canada only

www.clarion.com

Dear Customer:

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

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

We have made product registration simple with our easy to use website. The registration form is short and easy to complete. Once you're registered, we can keep you informed of important product information.

Register at www.clarion.com - it's easy to keep your Clarion product up to date.

Contents

1. FEATURES.....	3
2. PRECAUTIONS.....	3
3. CAUTIONS ON HANDLING.....	3
4. CONTROLS.....	4
About the Registered Marks, etc.....	4
Names of Buttons and Their Functions.....	5
5. OPERATIONS.....	6
Basic Operation.....	6
System Menu.....	7
Radio (AM/FM) Operation.....	8
Weather Band Operation.....	9
SiriusXM Satellite Radio Operation.....	10
USB Mode Operation.....	12
iPod/iPhone Mode Operation.....	13
Aux Operation.....	14
Bluetooth Operation.....	15
6. TROUBLESHOOTING.....	16
7. SPECIFICATIONS.....	17
INSTALLATION AND WIRE CONNECTION.....	18

1. FEATURES

- SiriusXM-Ready™
- Weather Band Radio
- Watertight Remote
- Built-In Bluetooth®
- 50Wx4 Built-In Amplifier
- Compatible with iPod® /iPhone®



2. PRECAUTIONS

⚠ WARNING

For your safety, while boating, keep the volume to a level at which external sounds can be heard.

1. This unit has precision parts inside. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the parts.
2. FCC STATEMENT
 - 2.1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - (1) This device may not cause harmful interference.
 - (2) This device must accept any interference received, including interference that may cause undesired operation.
 - 2.2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
3. IC warning
 - 3.1. This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
 - (1) This device may not cause interference, and
 - (2) This device must accept any interference, including interference that may cause undesired operation of the device.
 - 3.2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
 - 3.3. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
 - (1) l'appareil ne doit pas produire de brouillage, et
 - (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

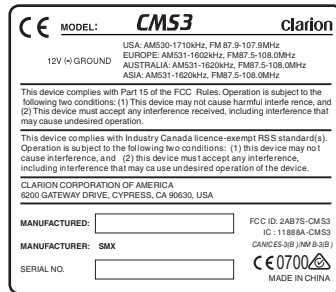
Note:

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 try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body



CE 0700

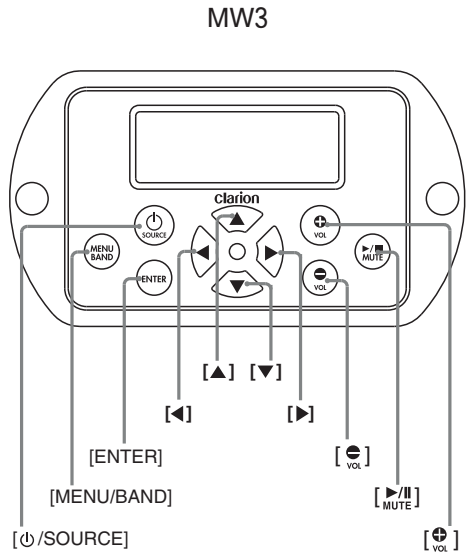
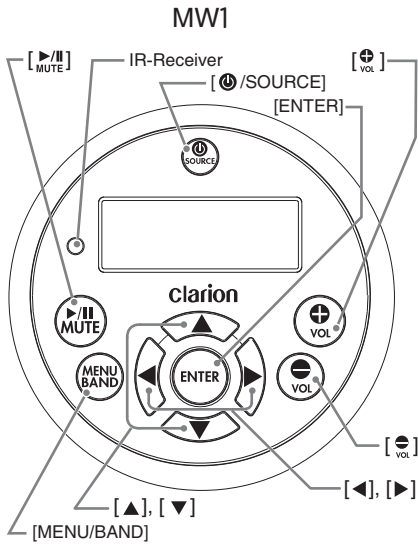
This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC

3. CAUTIONS ON HANDLING

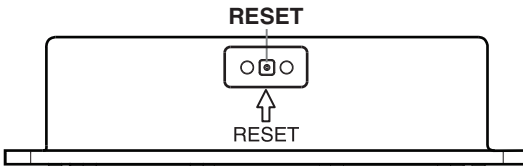
- Exposure to extreme heat and direct sunlight may hinder the performance of your Clarion product. In the event this happens, allow the unit to cool down before use.

4. CONTROLS

◆ Wired Remotes



◆ Black Box



About the registered marks, etc.

- Windows Media™ and the Windows® logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and / or other countries.
- "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.
- The Bluetooth word mark and Logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Clarion Corporation of America is under license. Other trademarks and trade names are those of their respective owners.
- Sirius, XM and all related marks and logos are trademarks of SiriusXM Radio Inc. All rights reserved.
- © 2013 CSR plc and its group companies. The aptX® mark and the aptX logo are trade marks of CSR plc or one of its group companies and may be registered in one or more jurisdictions.

Name of Buttons and Their Functions

Note: Be sure to read this chapter while referring to the front diagram in chapter “4. CONTROLS”

⚠ 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.
- Press and release the [🔊 /SOURCE] button to switch between available sources: FM, AM, Weather Band, SiriusXM, USB/iPod, AUX and BT Audio.

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

[ENTER] Button

- Press this button to confirm operation selection when available.
- Press **ENTER** button to switch the display indication.

[🔊] / [🔊] Button

- Press the [🔊] button to increase the volume.
- Press the [🔊] button to decrease the volume.

[🔊 / MUTE] Button

- Press this button to mute/unmute the audio output.
- Press this button to Play or Pause.
- In SiriusXM play screen, press the Play/Pause button to enter Replay mode.

[◀] / [▶] Button

- **MENU/BAND** mode—Adjust the current item
- **AM/FM/Weather Band** mode—Station Up/Down & Seek Up/Down (Press and hold)
- **USB** mode – Previous/Next track & Fast Forward/Reverse (Press and hold)
- **iPod/iPhone** mode – Previous/Next track & Fast Forward/Reverse (Press and hold)
- **AUX In** mode – No function
- **SiriusXM** mode – Channel Tune Up/Down, Fast Channel Tune Up/Down (Press and hold), Move cursor (Direct mode) & Enter the Parent Code Window
- **SiriusXM Replay** mode – Press and Release the Left or Right Arrow to skip back or forward one song/track. Press and Hold will Fast Forward/Fast Rewind through the Replay buffered content.
- **BT Audio** mode – Previous/Next track & Fast Forward/Reverse (Press and hold)

[▲] / [▼] Button

- **MENU/BAND** mode—Select the menu item
- **AM/FM/Weather Band** mode—Preset Station Up /Down & Enter into Manual Store (Press and hold)
- **USB** mode – Folder Up/Down & Select (in Folder search mode)
- **iPod/iPhone** mode – Select (in Menu mode)
- **AUX In** mode – No function
- **SiriusXM** mode—Preset channel Up/Down, Category Up/Down (in Category mode), Numeric Up/Down (Direct mode), input Parent code interface
- **BT Audio** mode – No function

[MENU/BAND] Button

- Press this button to access menu items for necessary functions in every mode.
- In different modes, the menu items are different. Please see the operation instructions of every mode for more details.
- Press to access the adjust menu. Press [▲ / ▼] repeatedly to select the item to be adjusted.

◆ Black Box

[RESET] Button

- Press RESET button with a ball point pen to:
 1. Perform a complete system reset.
 2. In the event that remote buttons do not respond or operate correctly.
 3. When an Error Code or Message is displayed.

5. OPERATIONS

Basic Operation

Note: Be sure to read this chapter referring to the chapter "4. CONTROLS"

⚠ CAUTION

When the unit is turned on, starting and stopping the engine with its volume raised to the maximum level it may cause hearing damage. 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 vessel 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.





Engine ON position

2. Press the [ /SOURCE] button to turn the power on and press and hold it (1 sec.) to turn the power off.

◆ Selecting a mode

1. Press the [ /SOURCE] button to change to the next available source.
 - * External equipment not connected to this unit is not displayed.


◆ Adjusting the volume

1. Press [] button to increase the volume.
2. Press [] button to decrease the volume.

⚠ CAUTION

While boating, please be aware of the volume levels in residential, family areas and local volume level ordinances.

◆ Mute

Press the [] button to turn the Mute On and Off.

System Menu

Press [MENU/BAND] button to access the System Menu. Press [MUTE] button to exit the System Menu. Press [▲ / ▼] repeatedly to select items to be adjusted:

◆ EQ (Preset Equalizer Setting)

Press the [◀ / ▶] buttons to change EQ:
Flat->Jazz->Pop->Classic->Rock->News->Urban
->Rave->Movie->Techno->User

◆ Loud On/Off

Press the [◀ / ▶] buttons to select Loudness between ON and OFF.

◆ Subwoofer On/Off

Press the [◀ / ▶] buttons to select Subwoofer between ON and OFF.

◆ Subwoofer GAIN

Press the [◀ / ▶] buttons to adjust the Subwoofer Gain range: 0 to 12

◆ Subw LPF

Press the [◀ / ▶] buttons to adjust the Subwoofer Low Pass Filter range: 80HZ / 120HZ / 180HZ

◆ Bass

Press the [◀ / ▶] buttons to adjust the Bass level range: -7 to +7

◆ Middle

Press the [◀ / ▶] buttons to adjust the Mid-range level range:-7 to +7

◆ Treble

Press the [◀ / ▶] buttons to adjust the Treble level range:-7 to +7

◆ Balance

Press the [◀ / ▶] buttons to adjust the Balance between the Left and Right speakers from L12 (full left) to R12 (full right).

◆ Fader

Press the [◀ / ▶] buttons to adjust the Fader between the Rear and Front speakers from R12 (full rear) to F12 (full front).

◆ Aux In

Press the [◀ / ▶] buttons to select the “LOW”, “MIDDLE” or “HIGH”.

◆ Beep On/Off

Press the [◀ / ▶] buttons to select Beep tone between ON and OFF.

◆ BT Disconnect/Connect

Press the [◀ / ▶] buttons to Disconnect and Connect the Bluetooth.

◆ Reset Setting

Press the [ENTER] button to restore the factory default settings.

◆ About

Press the [ENTER] button to view the device hardware and software versions.

Radio (AM/FM) Operation

◆ Selecting the Tuner Mode

Press the [ / SOURCE] Source button to select the AM/FM mode.

◆ World Tuner

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.A standard	Europe standard	Aisa standard	Australia standard
AM	Frequency spacing	10kHz	9kHz	9kHz	9kHz
	Frequency range	530-1710 kHz	531-1602 kHz	531-1620 kHz	531-1620 kHz
FM	Frequency spacing	200kHz	50kHz	50kHz	100kHz
	Frequency range	87.9-107.9 MHz	87.5-108 MHz	87.5-108 MHz	87.5-108 MHz

◆ [▶] Tuning Up / [◀] Tuning Down Buttons

1. Press the [▶] / [◀] button change intervals step by step.
2. Press and hold the [▶] / [◀] button to seek to the next strongest station.

◆ Recalling a Preset Station

A total of 10 preset positions (P1~P10) exists to store individual radio stations in memory.

Press [▲] / [▼] button to select the desired preset station.

◆ Presets

1. Select the desired station with seek tuning or manual tuning.
2. Press and hold the [▲ / ▼] button
3. Press the [▲ / ▼] button to select a preset number.
4. Press the [ENTER] button to store current station into preset memory.

◆ Auto Store

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

1. Press the [MENU/BAND] button access the System Menu.
2. Press the [▲ / ▼] button until "Auto Store" is displayed.
3. Press the [ENTER] button to start automatically select nine strong stations and store them into nine presets. The new stations replace any stations already stored in the band.

Note: Press [MENU/BAND] button to exit .

◆ LO/DX

When LOCAL seeking is ON, only those radio stations with strong radio signal would be received.

1. Press the [MENU/BAND] button access the System Menu.
3. Press the [▲ / ▼] button until "LO/DX" is displayed.
4. Press the [◀ / ▶] button to select local (LO) or distant (DX) mode.

Note: Press [MENU/BAND] button to exit .

◆ Area Selection

This option allows you to select the appropriate frequency spacing for your area.

1. Press the [MENU/BAND] button access the System Menu.
2. Press the [▲ / ▼] button until "Area U.S.A" is displayed.
3. Press the [ENTER] to enter Area mode.
4. Press the [◀ / ▶] scroll through the Area options:
"Area U.S.A", "Area Europe", "Area Asia", "Area AUST (Australia)"

Note: Default is USA frequency. Once the region is changed, all the stations in the preset memory will be erased.

Weather Band Operation

◆ [▶] Tuning Up / [◀] Tuning Down Buttons

1. Press the [▶]/[◀] button to change intervals step by step.
2. Press and hold the [▶]/[◀] button to seek to the next strongest station.

◆ Recalling a Preset Station

A total of 7 preset positions (WB1~WB7) exists to store individual weather band stations in memory. Press [▲]/[▼] button to select the desired preset weather band station to recall the stored frequency.

◆ Scan

During listening of the weather band, press the [MENU/BAND] button to access available options.

1. Press the [MENU/BAND] button access the System Menu to select SCAN.
2. Press the [ENTER] button to start scanning available stations. Press again to stop.




Note: Only stations with acceptable reception will lock to SCAN. Scan time is approximately 10 seconds.

SiriusXM® Satellite Radio Operations

Only SiriusXM® brings you more of what you love to listen to, all in one place. Get over 140 channels, including commercial-free music plus the best sports, news, talk, comedy and entertainment. Welcome to the world of satellite radio. A SiriusXM Vehicle Tuner and Subscription are required. For more information, visit www.siriusxm.com

◆ Displaying the Radio ID





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

1. Press [ /SOURCE] button to enter SiriusXM mode.
2. Press [] or [] to select channel "0". The unit displays Radio ID.





Note:

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 and click on "ACTIVATE RADIO" in the top or call XM customer care at 1-877-438-9677.

◆ Channel Up [] Down [] Operation

1. Press the [] Right Arrow to advance to the next channel.
Press the [] Left Arrow to go to previous channel.
2. Press and hold in the [] Right Arrow to fast forward search channel.
Press and hold in the [] Left Arrow to fast backward search channel.



◆ Recalling a Preset Station

1. Press the [ / ] button to enter into the Preset List.
2. Press the [ / ] button to select the desired Preset you wish to access.
3. Press the [ENTER] button to confirm tune to that channel.

◆ Presets

1. Press and hold the [ / ] button to enter into the Manual Store Presets interface.
2. Press the [ / ] button to select a preset number.
3. Press the [ENTER] button to store current channel into preset.







◆ Go Live

1. Press the [MENU/BAND] button access the SiriusXM Menu.
2. Press the [ / ] button until "Go Live" is displayed.
3. Press the [ENTER] button to go to Live signal.

Note: Press [MENU/BAND] button to exit .

◆ Category Search







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

1. Press the [MENU/BAND] button access the SiriusXM Menu.
2. Press the [ / ] button until "SXM CATEGORY" is displayed.
3. Press the [ENTER] button to enter Category Search mode.
4. Press [ / ] button to scroll available categories.
5. Press [ / ] button to scroll channels with in the category.
6. Press the [ENTER] button to confirm to tune to that channel.

Note:

In Category Search mode, press and hold the [ENTER] button to switch channel data (channel name, artist name, song title, content info, category name).

◆ Direct Tune

1. Press the [MENU/BAND] button access the SiriusXM Menu.
2. Press the [ / ] button until "SXM DIRECT-T" is displayed.
3. Press the [ENTER] button to enter Direct Tune mode.
4. Press the [ / ] button to change the digit or [ / ] button to change the number.
5. When the cursor is on the third digit, press the [ENTER] button to confirm channel number selection.

Note: Press [MENU/BAND] button to exit .

SiriusXM Satellite Radio Operations

◆ Parental Control

The SiriusXM Parental Control feature allows you to prevent unauthorized access to mature content channels. When enabled, the Parental Control feature requires you to enter a passcode to tune to the locked mature content channels. Information on setting up the passcode, setting up the mature content channels to be locked, and the method to access the locked channels is described below.

Mature Channel

- For setting up the mature content channels to be locked:
 1. Press the [MENU/BAND] button to access the SiriusXM Menu.
 2. Press the [▲/▼] button until "MATURECH UNLOCK" is displayed.
 3. Press the [▶] button to change the digit or [▲/▼] button to change the number.
 4. When the cursor is on the fourth digit, press the [ENTER] button to confirm Passcode selection.
- For setting up the mature content channels to be unlocked:
 1. Press the [MENU/BAND] button to access the SiriusXM Menu.
 2. Press the [▲/▼] button until "MATURECH LOCK" is displayed.
 3. Press the [▶] button to change the digit or [▲/▼] button to change the number.
 4. Press the [ENTER] button to confirm Passcode selection.

Parental Passcode

1. Press the [MENU/BAND] button to access the SiriusXM Menu.
2. Press the [▲/▼] button until "PARENTALCODE" is displayed.
3. Press the [ENTER] button to access change passcode mode.
4. Enter Old / New passcode, press the [▶] button to change the digit or [▲/▼] button to change the number.
5. To confirm the New passcode, enter it a second time.
6. The default passcode set for the Parental Control is "1111".

Note: If the passcode mismatching, will display "CODE ERROR" for 3 Seconds then return to Old Code screen.

◆ SiriusXM Replay™ function

The Replay feature allows you to pause, rewind, and replay of live SiriusXM Satellite Radio.

1. While listening to a SiriusXM channel, press the [MUTE] button to enter Replay mode. The display will show "PAUSE" when entering this mode.

2. Press the [MUTE] button to resume playback of the stored audio from the point at which it was paused. During playback, the SiriusXM Tuner will continue to store the channel audio until you exit the Replay mode.

During REPLAY playback

- Fast rewind: Press and hold [◀].
 - Fast forward: Press and hold [▶].
 - Returning to the beginning of the current song: Press [◀]. (If you press [◀] in the first 2 seconds of a song, you return to the beginning of the previous song.)
 - Advancing to the beginning of the next song: press [▶].
3. Press the [MENU/BAND] button to enter into the SiriusXM Menu to select the Go-Live function and press the [ENTER] button to exit Replay mode.

Note:

- If you continue to press the [▶] button until the end, the Replay mode is canceled, and the unit will change to live SiriusXM radio mode.
- If you change channels while in Replay mode, the unit will exit Replay mode to live Satellite mode and clear the Replay memory.

◆ Changing the Display

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

In SiriusXM mode, press [ENTER] button. Each time you press this button, the display changes as shown below:

Channel name -> Artist Name -> Song Title -> Content Info ->Category name

Note:

- If there is no text information, nothing will be displayed.
- In Category Search mode, press and hold the [ENTER] button to switch channel data (channel name, artist name, song title, content info, category name).

◆ SiriusXM Factory default

1. Press the [MENU/BAND] button to access the SiriusXM Menu.
2. Press the [▲/▼] button until "SXM RESET" is displayed.
3. Press the [ENTER] button to confirm.

Note:

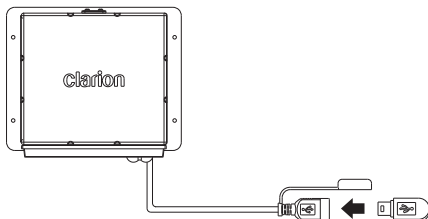
SiriusXM factory default include:

- Last channel tuned.
- Presets reset.
- Parental Control feature is disabled.
- Parental Control code is reset.
- Mature Channel Tuning enabled.
- Display status reset

USB Mode Operation

◆ Connect

1. Insert a USB device into the USB pigtail.
2. 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 remove the USB device. Please see USB device compatibility on page 17.



◆ [▶] Right Arrow / [◀] Left Arrow Buttons

1. Press the [▶] Right Arrow to advance to the next track/song.
Press the [◀] Left Arrow to go to previous track/song.
2. Press and Hold in the [▶] Right Arrow to fast forward through the track/song.
Press and Hold in the [◀] Left Arrow to fast backward through the track/song.

◆ Play / Pause

Press the [▶/⏸] button to pause the track/song that is currently playing.

Press the [▶/⏸] button to resume playing the track/song that has been paused.

◆ Folder Select

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

Press the [▲/▼] button to select a folder.

◆ Search Function

1. Press the [MENU / BAND] access the System Menu.
2. Press the [▲/▼] button until "SEARCH" is displayed.
3. Press the [ENTER] to enter to select Search.
4. Press the [▲/▼] button to to display folder or file.
5. Press the [ENTER] button to select.
6. When displaying a File, press the [◀] button to display the File's corresponding Folder (return to last layer).

◆ Repeat Feature

This function allows you to Repeat All tracks/songs, Repeat the currently playing track/song, or to turn the Repeat feature OFF.

1. Press the [MENU / BAND] access the System Menu.
2. Press the [▲/▼] button until "REPEAT" is displayed.
3. Press the [◀/▶] button to display "ALL" or "TRACK" or "FOLDER".
4. Press the [ENTER] button to select that repeat option.

◆ Shuffle Feature

This function allows you to play tracks/songs from the current album, songs or artists in a random order.

1. Press the [MENU / BAND] access the System Menu.
2. Press the [▲/▼] button until "SHUFFLE" is displayed.
3. Press the [◀/▶] to scroll through the Shuffle options.
"SHUFFLE OFF" or "SHUFFLE ON"
4. When the Random option you would like to use appears on the display, Press the [ENTER] button to select that Random option.

◆ Intro Feature

This function allows you to play the first 10 seconds to each track on the device.

1. Press the [MENU / BAND] access the System Menu.
2. Press the [▲/▼] button until "INTRO" is displayed.
3. Press the [◀/▶] to scroll through the Intro options.
"INTRO OFF", or "INTRO ON"
4. When the Intro option you would like to use appears on the display, Press the [ENTER] button to select that Intro option.

Note:

- Press [MENU/BAND] button to exit .
- After 10 seconds of no action, you will return to the play screen for the current source in use.

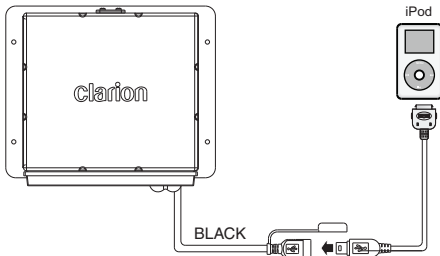
◆ Display Button

Press [ENTER] button to check ID3 information.

iPod/iPhone Mode Operation

◆ Connect

Connect an iPod/iPhone to the USB pigtail using a iPod/iPhone USB Cable. When connecting a device, the unit will read the files automatically. The track information displays on the screen once playback start.



◆ Compatible iPod/iPhone

You can connect the following iPod/iPhone:

- iPod nano (6G)
- iPod nano (7G)
- iPod touch (3G)
- iPod touch (4G)
- iPod touch (5G)
- iPhone 3GS
- Minimum iOS 5.0 or higher
- iPhone 4
- iPhone 4S
- iPhone 5
- iPhone 5C
- iPhone 5S
- iPhone 6
- iPhone 6S

◆ [▶] Right Arrow / [◀] Left Arrow Buttons

1. Press the [▶] Right Arrow to advance to the next track/song.
Press the [◀] Left Arrow to go to previous track/song.
2. Press and hold in the [▶] Right Arrow to fast forward through the track/song.
Press and hold in the [◀] Left Arrow to fast backward through the track/song.

◆ Play / Pause

Press the [MUTE] button to pause the track/song that is currently playing.

Press the [MUTE] button to resume playing the track/song that has been paused.

◆ Display Button

Press [ENTER] button to check iPod information.

◆ Search Function

1. Press the [MENU/BAND] access the System Menu.
2. Press the [▲/▼] button until "IPOD SEARCH" is displayed.
3. Press the [ENTER] button to enter into the Search mode.
4. Press the [▲/▼] button to select the among PLAYLIST → PODCASTS → AUDIOBOOKS → COMPOSERS → SONGS → GENRES → ALBUMS → ARTISTS.
5. Press the [ENTER] button to confirm selecting Playlists or Podcasts or Audiobooks or Composers or Songs or Genres or Albums or Artists.
6. Press the [▲/▼] button to display items.
7. Press the [ENTER] button to confirm wanted File to play.

◆ Repeat Feature

This function allows you to Repeat All tracks/songs, Repeat the currently playing track/song, or to turn the Repeat feature OFF.

1. Press the [MENU / BAND] access the System Menu.
2. Press the [▲/▼] button until "REPEAT" is displayed.
3. Press the [◀/▶] button to display "OFF" or "ONE" or "ALL".
4. Press the [ENTER] button to select that repeat option.

◆ Shuffle Feature

This function allows you to play tracks/songs from the current album, songs or artists in a random order.

1. Press the [MENU / BAND] access the System Menu.
2. Press the [▲/▼] button until "SHUFFLE" is displayed.
3. Press the [◀/▶] to scroll through the Shuffle options.
"SHUFFLE OFF" or "SHUFFLE ON"
4. When the Random option you would like to use appears on the display, Press the [ENTER] button to select that Random option.

iPod/iPhone Mode Operation

◆ Simple Control Mode

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

The factory default setting is OFF.

1. When in iPod / iPhone mode, press the **[MENU/BAND]** access the System Menu.
2. Press the **[▲ / ▼]** button until **"SIMPLE CONTROL"** is displayed.
3. Press the **[ENTER]** button to select.
4. Press the **[▲ / ▼]** to display **"BY UNIT"** or **"BY IPOD"**.
5. Press the **[ENTER]** to confirm the selection.

Note:

- When performing iPod/iPhone operations using Simple Control, make the operations slowly. If repetitive operations are performed too quickly, unforeseen errors may occur.
- When performing iPod/iPhone operations using Simple Control, please do not operate the iPod/iPhone and the unit at the same time, otherwise unexpected events may occur.
- Some iPod/iPhone models do not support this function. Please consult Clarion Customer Service or Clarion website to confirm which models are supported

AUX Operation

The AUX RCA inputs in this system are provided to allow playback of sounds and music from external devices connected to this unit.

Press the **[⏻ / SOURCE]** button to select the **"AUX In"**.

◆ AUX Input sensitivity setting

Change 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.

1. Press the **[MENU / BAND]** to access the System Menu.
2. Press the **[▲/▼]** button until **"AUX IN LOW"** is displayed.
3. Press the **[◀/▶]** button to select the **"LOW"**, **"MIDDLE"** or **"HIGH"**.

Note: When AUX mode is selected, AUX IN sensitivity can be adjusted.

Bluetooth Operation

◆ Pairing the Bluetooth Device

1. From your Bluetooth enabled device, turn the Bluetooth ON and search for Bluetooth devices.
2. When a list of available Bluetooth devices appear on your Bluetooth device, select "Clarion".
3. "Successful" will appear on the CMS3 display.
4. The unit will automatically enter the BT Audio source and you can now start streaming audio from your Bluetooth enabled device.

Note: If the mobile phone doesn't support SSP (Simple Secure Pairing) Profile, please enter the passcode of "0000".

◆ Disconnect / Re-Connect

1. Press the [MENU/BAND] button to access the System Menu.
2. Press the [▲/▼] button until "BT DISCONN" or "CONNECT" is displayed.
3. Press the [ENTER] button to confirm the selection.

◆ Audio Streaming Operations What is audio streaming?

Audio streaming is a technique for transferring audio data such that it can be processed as a steady and continuous stream. Users can stream music from their external audio player to their audio system wirelessly and listen to the tracks through the boat's speakers.

⚠ CAUTION

Please avoid operating your connected mobile phone while audio streaming as this may cause noise or sound choppy on the song playback. Audio streaming may or may not resume after telephone interrupt as this is dependent on mobile phone.

◆ Search Function

1. Press the [MENU/BAND] access the System Menu.
2. Press the [◀/▶] button to select "DIR SEARCH"
3. Press the [▲/▼] button to select Directory / File, then press [ENTER] to confirm.
4. When displaying a File, press the [◀] button to display the File's corresponding Folder (return to last layer).

◆ Repeat Feature

This function allows you to Repeat All tracks/songs, Repeat the currently playing track/song, or to turn the Repeat feature OFF.

1. Press the [MENU/BAND] access the System Menu.
2. Press the [▲/▼] button until "REPEAT" is displayed.
3. Press the [◀/▶] button to display "ALL" or "TRACK" or "FOLDER".
4. Press the [ENTER] button to select that repeat option.

◆ Shuffle Feature

This function allows you to play tracks/songs from the current album, songs or artists in a random order.

1. Press the [MENU/BAND] access the System Menu.
2. Press the [▲/▼] button until "SHUFFLE" is displayed.
3. Press the [◀/▶] to scroll through the Shuffle options.
"SHUFFLE OFF" or "SHUFFLE ON"
4. When the Random option you would like to use appears on the display, Press the [ENTER] button to select that Random option.

Note:

- Press [MENU/BAND] button to exit .
- After 10 seconds of no action, you will return to the play screen for the current source in use.

◆ Play / Pause a track

Press the [MUTE] button to pause the track/song that is currently playing.

Press the [MUTE] button to resume playing the track/song that has been paused.

◆ [▶] Right Arrow / [◀] Left Arrow Buttons

1. Press the [▶] Right Arrow to advance to the next track/song.
Press the [◀] Left Arrow to go to previous track/song.
2. Press and hold in the [▶] Right Arrow to fast forward through the track/song.
Press and hold in the [◀] Left Arrow to fast backward through the track/song.

Note:

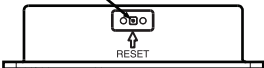
- Not all Bluetooth enabled devices will support the fast forward and fast backward function.
- Playing order will depend on BT Audio player. When [◀] button is pressed, some Bluetooth devices will restart the current track depends on the duration of playback. During music streaming playback, "BT Audio" will be shown on the display. When BT Audio device is disconnected, "BT Disconnect" will be shown on the display. Some Bluetooth audio players may not have play/pause synchronized with this unit. Please make sure both device and main unit are in the same play/pause status in BT Audio mode.

◆ ID3 Display

During music streaming playback, press [ENTER] to view the ID3 display information:
ALBUM->TITLE->ARTIST...

6. TROUBLESHOOTING

GENERAL

Problem	Cause	Measure
The unit will not power on	The vessel's accessory switch is not on	If the power supply is properly connected to the vessel's accessory terminal, switch the ignition key to "ACC"
No sound	Volume is set too low	Increase the volume to audible level
	Wiring is not properly connected	Correct wiring connections
The remote is not responding	The built-in internal processor is not operating properly	Press the RESET button with a ball point pen 
Auto seek function can not find any stations	The antenna cable is not connected	Insert the antenna cable securely
	The signals are too weak	Select a station manually

Bluetooth

Problem	Cause	Measure
Cannot pair the Bluetooth enabled device with the audio system.	The device does not support the profiles required for the system.	Use another device to connect.
	The Bluetooth function of the device is not enabled.	Refer to the user manual of the device for how to enable the function.
The audio quality is poor after connection with a Bluetooth-enabled device.	The Bluetooth reception is poor.	Move the device closer to the audio system or remove any obstacle between the device and the system.

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 RESET 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 a mature channel has been selected. A prompt to enter the unlock code will appear.
SUBSCRIPTN UPDATED	An update to your SiriusXM subscription has been received by the SiriusXM tuner. Press any button to continue.

7. SPECIFICATIONS

FM Tuner

Frequency Range:	USA	87.9 - 107.9MHz
	Europe	87.5 - 108.0MHz
	Asia	87.5 - 108.0MHz
	Australia	87.5 - 108.0MHz
Usable Sensitivity:	4 μ V (S/N=30dB)	
Image Rejection:	>45dB	
Stereo Separation:	>25dB	

AM Tuner

Frequency Range:	USA	530 - 1710KHz
	Europe	531 - 1602KHz
	Asia	531 - 1629KHz
	Australia	531 - 1629KHz
Usable Sensitivity:	40dB (S/N=20dB)	

Weather Band Selection

CH.1	162.400MHz	CH.2	162.425MHz
CH.3	162.450MHz	CH.4	162.475MHz
CH.5	162.500MHz	CH.6	162.525MHz
CH.7	162.550MHz		

Audio

Maximum Power Output:	50W x 4
Bass Control (60Hz):	\pm 7dB
Treble Control (10kHz):	\pm 7dB
Middle Control:(1kHz):	\pm 7dB

USB

USB:	2.0 High Speed
USB Port:	1.0A
USB Voltage:	5.0V
Maximum MP3/WMA Songs:	65535
Maximum MP3/WMA Folder:	255
Maximum Songs per Folder:	65535
Maximum USB Memory Size:	32G
USB Flash Drive and Hard Drive Compatible Format:	FAT/FAT32


Bluetooth

Specification:	Bluetooth Version. 3.0+EDR (Enhanced Data Rate)
Supported Profiles:	A2DP (Advanced Audio Distribution Profile) aptX (CD Quality audio bandwidth matching and reproduced) AVRCP 1.4 (Audio/Video Remote Control Profile) SPP (Serial Port Profile) SSP (Simple Secure Pairing)
Send/Receive Sensitivity:	Class 2

General

Power Supply Voltage:	12V DC (10.8 to 15.6V allowable)
Grounding System:	Negative Ground
Speaker Impedance:	4-8 ohms per channel
Working temperature:	-20°C ~ +55°C

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

Power Output: 20W \times 4 RMS (4 Ω @14.4V \leq 1% THD+N) Signal to Noise Ratio: 74dB (reference: LPF 1 W into 4 Ω)	
--	--

INSTALLATION AND WIRE CONNECTION

1. BEFORE STARTING

1. This set is exclusively for use in vessels 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)

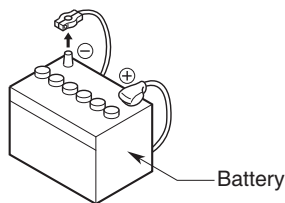


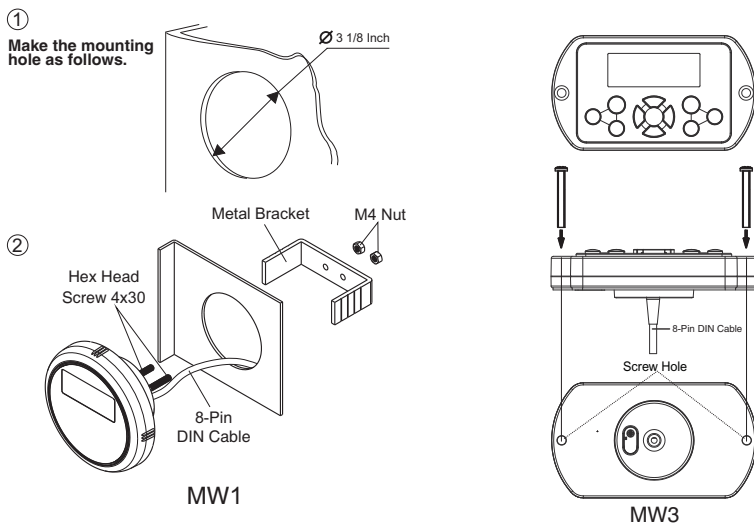
Figure 1

2. INSTALLATION CAUTIONS

1. In order to avoid any interference, do not install the tuner module or control unit in the proximity of the engine compartment.
2. The use of unauthorized parts can cause permanent damage to the unit.
3. Always check your wire connections to ensure proper installation before turning on the unit.
4. Consult with your nearest dealer for proper installation or if common parts need to be used. Seek assistance if modifications or drilling holes to your vessel is needed.
5. Do not install the unit where it will be subjected to excessive moisture, dust, dirt, foreign particles or vibration. Areas of high temperature from the engine, direct sunlight, heater or hot air should also be avoided.
6. Do not install the unit in a location where it will interfere with the vessel operation, or it will injure the passengers if there is a sudden or emergency stop.

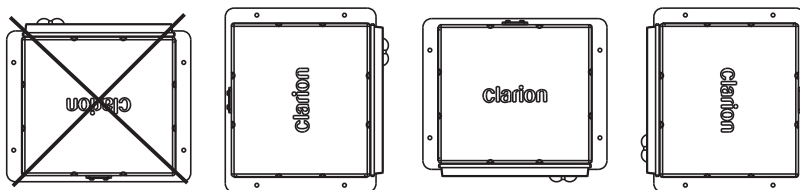
3. OPTIONAL MARINE WIRED REMOTE INSTALLATION

The control unit should be mounted to a dry, clean and flat surface. Ensure the rear gasket is fully sealed to the mounting surface without distorting the unit.



4. BLACK BOX INSTALLATION

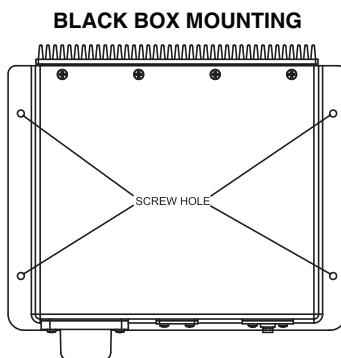
1. Select an area with sufficient ventilation for the mounting of the black box in order to prevent the module from overheating. You may mount the black box in a horizontal or vertical position. If the black box is mounted in a vertical position, do not mount the module with the harness exit points directly facing up to prevent water collecting in these areas.



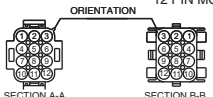
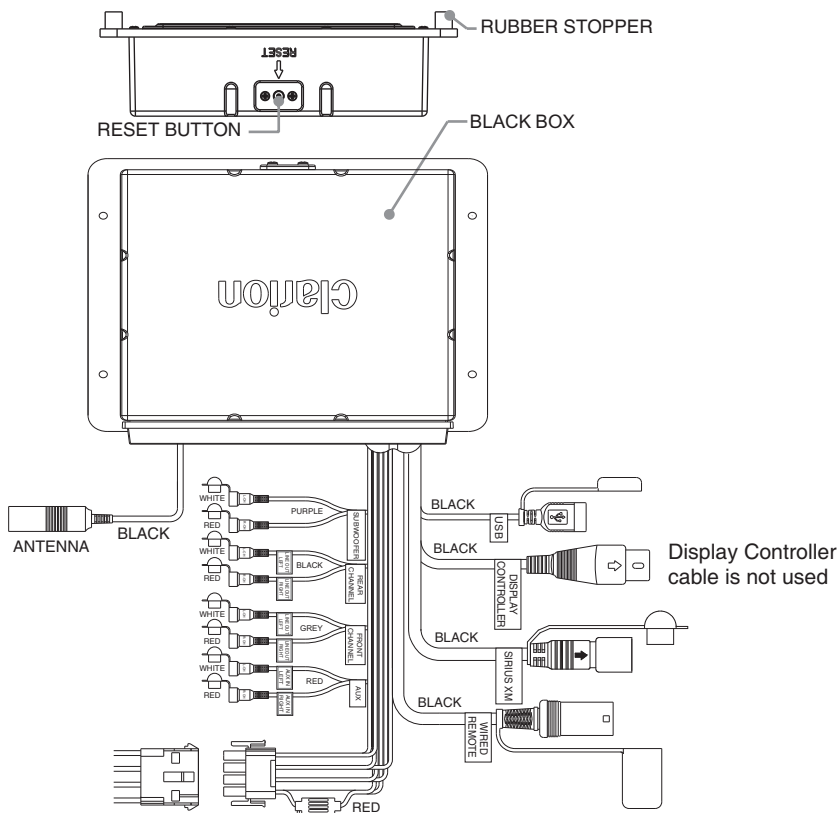
2. Please refer to the diagram below for the mounting screw hole positions. Always use the shortest length of screw possible.
3. During installation, use the 4 rubber mounting stoppers (included in the package) for the bottom of the module. This provides clearance from surface moisture and provides sufficient ventilation for the heat sink.
4. Extension wires/cables may be needed to route the harness and cable throughout the vessel.

Note: Retain some slack in the harness/ cables to prevent damage to the wires. It is recommended relieve stress in all cables and harnesses.

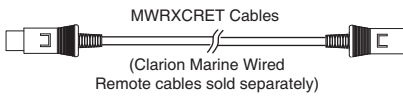
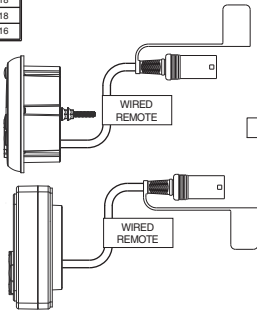
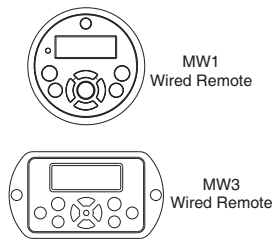
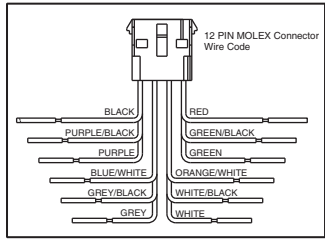
5. Always read through the wiring diagram in this manual first, and follow all the wiring diagrams carefully. The connections should be secured and insulated with crimp connectors or electrical tape to ensure proper connections.
6. Once the wiring connections are completed, connect the negative terminal on the battery, turn the vessel accessory ON and power on the unit to check if it is operating correctly. If abnormalities occur, disconnect the battery negative terminal, recheck all wiring and try again. Please refer to the troubleshooting section for assistance.



5. WIRE CONNECTION



PIN NO.	WIRE COLOR	WIRE DEFINITION	AWG
1	GREEN	SPEAKER REAR LEFT (+)	18
2	GREEN/BLACK	SPEAKER REAR LEFT (-)	18
3	RED	ACCESSORY/IGNITION SWITCHED (+12V)	16
4	WHITE	SPEAKER FRONT LEFT (+)	18
5	WHITE/BLACK	SPEAKER FRONT LEFT (-)	18
6	ORANGE/WHITE	ILLUMINATION	18
7	GREY	SPEAKER FRONT RIGHT (+)	18
8	GREY/BLACK	SPEAKER FRONT RIGHT (-)	18
9	BLUE/WHITE	AMPLIFIER REMOTE TURN ON (+)	18
10	PURPLE	SPEAKER REAR RIGHT (+)	18
11	PURPLE/BLACK	SPEAKER REAR RIGHT (-)	18
12	BLACK	GROUND (-)	16



Clarion Corporation of America

All Rights Reserved. Copyright © 2016: Clarion Corporation of America
Printed in China