

# clarion®

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

M505  
M205

---

**MARINE Bluetooth® USB/MP3/WMA RECEIVER**  
**MARINE Bluetooth® RÉCEPTEUR USB/MP3/WMA**  
**RECEPTOR MARINE Bluetooth® USB/MP3/WMA**

## Contents

---

<b>1. FEATURES</b> .....	<b>3</b>
<b>2. PRECAUTIONS</b> .....	<b>3</b>
<b>3. CAUTIONS ON HANDLING</b> .....	<b>3</b>
<b>4. CONTROLS</b> .....	<b>4</b>
Operational Panel.....	4
Name of Buttons and their Functions .....	4
Notes for use of Optional Remote Control (M505 only) .....	5
Remote Control (M505 only) .....	5
Optional Wired Remote Control Unit Operations (M505 only) .....	6
<b>5. OPERATIONS</b> .....	<b>7</b>
Basic Operation .....	7
System Menu .....	8
Audio Menu .....	8
Radio Operation .....	9
Weather Band Operation.....	10
SiriusXM® Satellite Radio Operations (M505 only).....	11
USB Mode Operation .....	13
AUX Mode Operation .....	13
iPod/iPhone Mode Operation .....	14
Bluetooth Operation (M505 only) .....	16
<b>6. TROUBLESHOOTING</b> .....	<b>17</b>
<b>7. SPECIFICATIONS</b> .....	<b>19</b>
<b>8. INSTALLATION AND WIRE CONNECTION</b> .....	<b>20</b>

# 1. FEATURES

- SiriusXM-Ready™
- Weather Band Radio
- 3.5mm Aux Input & Front USB Port
- 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.

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

### 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.

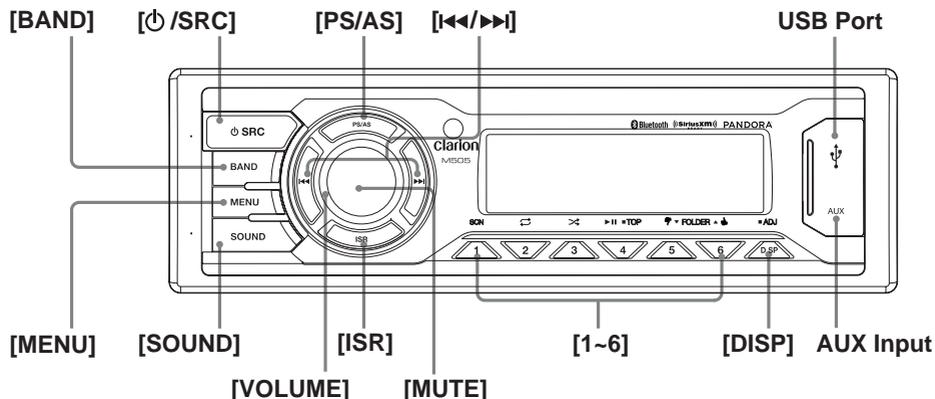
<b>CE 0700</b> 12V Ⓞ GROUND Rating Current: 15A	<b>MODEL M505</b>	<b>clarion</b> <small>radio • gps • connect • pro</small>
	USA: AM530-1710kHz / FM 87.9-107.9MHz EUROPE: AM531-1620kHz / FM87.5-108.0MHz AUSTRALIA: AM531-1620kHz / FM87.5-108.0MHz ASIA: AM531-1620kHz / FM87.5-108.0MHz	
<small>This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.</small>		
<small>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.</small>		
<small>This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.</small>		
CLARION CORPORATION OF AMERICA 6200 GATEWAY DRIVE, CYPRUS, CA 90630, USA		
MANUFACTURED: <input type="text"/>	FCC ID: 2AB7S-M505 IC ID: 1188A-M505 <small>CAN ICES-300/M505-305</small>	
MANUFACTURED: <b>SMX</b>		
SERIAL NO. <input type="text"/>	MADE IN CHINA	

# 3. CAUTIONS ON HANDLING

- Protect from high Temperatures. Exposure to direct sunlight for an extended period of time can produce very high temperature in your vessel. Cool down the interior before starting playback.

# 4. CONTROLS

## Operational Panel



## Name of Buttons and their Functions

### [BAND] Button

- **TUNER mode** - Select tuner band
- **SiriusXM mode** - Select tuner band / Category Search (Press and Hold)

### [⏻/SRC] Button

- Toggle the audio source
- Power On / Power Off (Press and Hold)

### [PS/AS] Button

- **Tuner mode** - Preset scan
- **Tuner mode** - Auto memory store (Press and Hold)
- **SiriusXM mode** - Category scan / Preset scan (Press and hold)

### [◀▶] Button

- **Tuner mode** - Station up/down
- **USB/iPod/BT mode** - Previous / next track
- **USB/iPod/BT mode** - Fast Forward / Backward (Press and Hold)
- **Pandora mode** - Skip track

### [MENU] Button

- **USB mode** - Search function
- **iPod mode** - iPod menu / iPod control (Press and hold)
- **Pandora mode** - Pandora menu
- **SiriusXM mode** - Replay mode / SiriusXM menu (Press and hold)

### [SOUND] Button

- Sound effect setting

### [VOLUME] Knob

- Adjust volume level

### [ISR] Button

- Recall ISR station stored in memory and store current station in ISR memory (Press and Hold)

### [MUTE] Button

- Mute or Unmute the audio output / Confirm / Display Off the LCD screen (Press and Hold)

### [1~6] Buttons

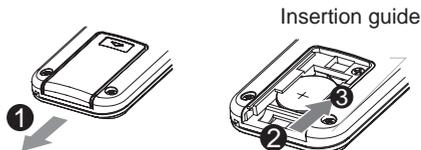
- **[1] Button**: Scan play / Preset station 1
- **[2] Button**: Repeat play / Preset station 2
- **[3] Button**: Random play / Preset station 3
- **[4] Button**: Play / Pause / Top play (Press and Hold) / Preset station 4
- **[5] Button**: Previous folder / Preset station 5  
**Pandora mode** - Thumbs down
- **[6] Button**: Next folder / Preset station 6  
**Pandora mode** - Thumbs up

# Notes for use of Optional Remote Control (M505 only)

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

## Inserting the Battery

1. Slide the remote control unit's rear cover in the direction shown.
2. Insert the battery (CR2025) into the insertion guides with the side printed (+) facing up.
3. Press the battery into the compartment as shown.
4. Replace and slide the cover until it clicks into place.



## Remote Control (M505 only)

### [⏻/SRC] Button

- Toggle the audio source
- Power On / Power Off (Press and Hold)

### [⏮/⏭] Button

- Preset up/down, Station up/down (Press and Hold)
- Previous / next track
- Fast Forward / Backward (Press and Hold)
- **Pandora** mode - Skip track

### [SCN/PS/AS] Button

- Scan play / Preset scan
- Auto memory store (Press and Hold)
- **SiriusXM** mode - Channel scan (in current category) / Preset scan (Press and Hold)

### [BAND/TOP] Button

- **USB** mode - Top play
- **TUNER** mode - Select tuner band
- **SiriusXM** mode - Select tuner band, quit Replay (Replay mode) / Select category (Press and Hold)

### [▲ / ▼] Button

- Volume up / down

### [▶||] Button

- Play / Pause

### [MUTE] Button

- Mute or Unmute the audio output

### [RDM] Button

- Random play

### [RPT] Button

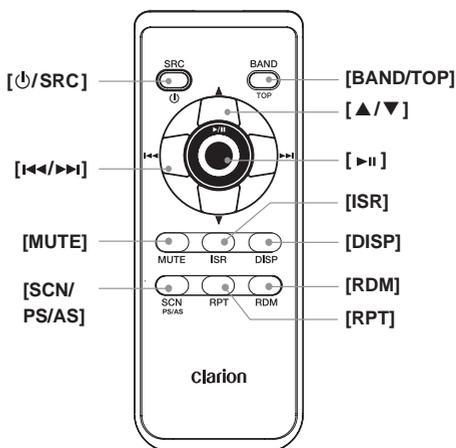
- Repeat play

### [ISR] Button

- Recall ISR station stored in memory and store current station in ISR memory (Press and Hold)

### [DISP] Button

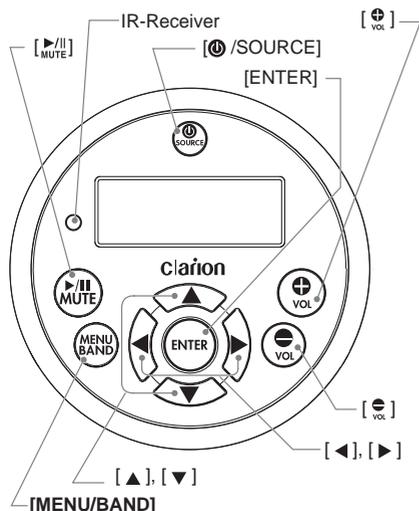
- Display switch



# Optional Wired Remote Control Unit Operations (M505 only)

The following operations are enabled by remote control with the separately sold Wired Remote Control Unit MW1 (shown below), MW2 or MW4.

**Note:** If the remote control is connected with this unit while the power is 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 (2 sec.) to turn the power off.
- Each time the [⏻/SOURCE] button is pressed, the mode switches.

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

### [ENTER] Button

- **TUNER/Weather Band** mode – Confirm (in Preset and Manual store)
- **USB** mode – Confirm (in Menu mode)
- **iPod/iPhone** mode – Confirm (in Menu mode)
- **Pandora** mode – Confirm (in Menu mode)
- **SiriusXM** mode – Confirm (in Search mode)

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

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

### [◀] / [▶] Buttons

- **Tuner/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)
- **Pandora** mode – Skip track
- **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.

### [▲] / [▼] Buttons

- **Tuner/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)
- **Pandora** mode – Thumbs up / down
- **SiriusXM** mode – Preset channel Up/Down, Category Up/Down (in Category mode), Numeric Up/Down (Direct mode), input Parent code interface.

### [MENU/BAND] Buttons

- **Tuner/SiriusXM** mode – Select the band / Category search (Press and Hold)
- 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 introduction of every mode for more details.

### [MUTE] Buttons

- **Tuner/Weather Band** mode – Mute On / Off
- **USB** mode – Play / Pause
- **iPod/iPhone** mode – Play / Pause
- **Pandora** mode – Play / Pause
- **SiriusXM** mode – Replay Mode
- **BT Audio** mode – Play / Pause

# 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 may cause hearing damage. Be careful about adjusting the volume.

### ◆ Power On/Off

**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.



2. Press the [⏻/SRC] button to turn on the power under standby mode. Press and hold to turn off the power.

### ◆ Mute

Press the [MUTE] button to turn the mute On and Off.

### ◆ Adjusting the volume

Rotating the [VOLUME] knob to increase/decrease the volume.

The adjustable range of volume is 0 to 46.

### ⚠ CAUTION

While boating, keep the volume at a level at which external sounds can still be heard.

### ◆ Selecting a mode

Press the [⏻/SRC] button to display the source menu.

\* External equipment not connected to this unit is not displayed.

### ◆ Display System information

Press the [DISP] button on the front panel to switch the display information, system time and playing source.

### ◆ Display OFF/ON

This feature will allow the user to turn the display OFF in the event the display is too bright in different lighting conditions.

To use this feature, please follow these steps:

1. To turn the display OFF, press and hold the [MUTE] button and the display will turn OFF, but the audio from the current source will continue to play.
2. To turn the display ON, press and hold the [MUTE] button and the display will turn back ON.

\*\* With the display OFF, the ability to change tracks and adjust the volume will still remain.\*\*

# System Menu

In any mode, press and hold the **[DISP]** button to enter System Menu. Press the **[◀◀]** or **[▶▶]** button to select options, rotate the **[VOLUME]** knob to adjust a value / option.

## ◆ Clock

Press the **[MUTE]** button to enter clock setting mode, rotate the **[VOLUME]** knob to set the clock. Press the **[◀◀]** or **[▶▶]** button to select hour or minutes.

## ◆ Clock Format

Rotate the **[VOLUME]** knob to choose a time format: 12H or 24H.

## ◆ Clock Priority On/Off

Rotate the **[VOLUME]** knob to turn the clock On or Off as the priority screen view.

## ◆ BT Music

To Disconnect/Delete a mobile phone from the Bluetooth Mobile Phone Compatibility List.

*Note: Please read details on page 16.*

## ◆ Dimmer

Rotate the **[VOLUME]** knob to adjust the LCD display backlight level between High or Low.

## ◆ Beep On/Off

Rotate the **[VOLUME]** knob to choose button Beep sound On or Off.

## ◆ Local Seek

Rotate the **[VOLUME]** knob to choose radio Local or distant in TUNER mode.

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

## ◆ Area

Rotate the **[VOLUME]** knob to select a suitable country region:

- U.S.A (United States)
- EUROPE (Eastern/Western Europe)
- Asia (Asia Pacific)
- AUST (Australia)

## ◆ Pandora On/Off

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

## ◆ RESET

Press the **[MUTE]** button. Settings will be set to the default value.

## ◆ About

To view the device software version.

# Audio Menu

Press the **[SOUND]** button to enter sound effect setting mode. Press the **[◀◀]** or **[▶▶]** button to select options, rotate the **[VOLUME]** knob to adjust a value / option.

## ◆ EQ (Preset Equalizer Setting)

Rotate the **[VOLUME]** knob to change EQ:  
Flat -> Jazz -> Pop -> Classic -> Rock -> News -> Urban -> Rave -> Movie -> Techno -> User

## ◆ Loud On/Off

Rotate the **[VOLUME]** knob to select Loudness between ON and OFF

## ◆ Subw On/Off

Rotate the **[VOLUME]** knob to select subwoofer between ON and OFF

## ◆ Subw GAIN

Rotate the **[VOLUME]** knob to adjust the subwoofer gain range: 0 to 12

## ◆ Subw LPF

Rotate the **[VOLUME]** knob to adjust the subwoofer Low Pass Filter range: 80HZ/120HZ/180HZ

## ◆ Bass

Rotate the **[VOLUME]** knob to adjust the desired Bass level range from -7 to +7.

## ◆ Middle

Rotate the **[VOLUME]** knob to adjust the desired Middle level range from -7 to +7.

## ◆ Treble

Rotate the **[VOLUME]** knob to adjust the desired Treble level range from -7 to +7.

## ◆ Balance

Rotate the **[VOLUME]** knob to adjust the Balance between the right and left speakers from R12 (full right) to L12 (full left).

## ◆ Fader

Rotate the **[VOLUME]** knob to adjust the Fader between the front and rear speakers from R12 (full rear) to F12 (full front).

## ◆ Aux In

Rotate the **[VOLUME]** knob to adjust the Aux In between HIGH / MID / LOW.

# Radio Operation

## ◆ Select Tuner As Playing Source

Press the [SRC] Source button to select the TUNER 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	Asia 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

## ◆ Selecting The Radio Band

Press the [BAND] button on the panel to select one radio band.

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

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

## ◆ Recalling a Preset Station

Press one numeric button among 1 to 6 on the front panel to select the corresponding stored stations.

## ◆ Preset Scan

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

1. Press the [PS/AS] button.
2. When a desired station is tuned in, press the [PS/AS] button again to continue receiving that station.

## ◆ Auto Store

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

Press and hold the [PS/AS] button to automatically select six strong stations and store them into six presets. The new stations replace any stations already stored in the band.

## ◆ Manual Store

When one expected radio station has been detected, press and hold number button 1-6 to store it in the memory.

## ◆ Local Seek

When LOCAL seeking is ON, only those radio stations with strong radio signals can be received. To select LOCAL function, press and hold the [DISP] button on the front panel, then press the [◀▶] / [▶▶] button repeatedly until LOCAL or DX display on the LCD, rotate the [VOLUME] knob to select local or distant mode.

## ◆ Area Set

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

1. Press and hold the [DISP] button.
2. Press the [◀▶] / [▶▶] button to select "AREA"
3. Rotate the [VOLUME] knob to select: "U.S.A", "Europe", "Asia", "AUST (Australia)"
4. Press the [MUTE] button to confirm.

# Weather Band Operation

---

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

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

## ◆ Recalling a Preset Station

Press one numeric button among 1 to 6 on the front panel to select the corresponding stored stations.

## ◆ Preset Scan

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

1. Press the [PS/AS] button.
2. When a desired station is tuned in, press the [PS/AS] button again to continue receiving that station.

# SiriusXM® Satellite Radio Operations (M505 only)

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](http://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 the **[O/SRC]** 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. In the USA, to activate the SiriusXM Connect Vehicle Tuner go online to [www.siriusxm.com/activate](http://www.siriusxm.com/activate) now or call 1-866-635-2349.
4. In Canada, to activate the SiriusXM Connect Vehicle Tuner go online to [www.siriusxm.ca/activate](http://www.siriusxm.ca/activate) or call 1-877-438-9677.

## ◆ Storing Channel Presets

1. Press the **[BAND]** button to select the desired band you want to store the preset in. There are 3 Satellite Radio Preset bands. Each press of **[BAND]** changes the band.
2. Tune into the desired channel and then press and hold one of the preset buttons (1-6) to store the 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 To Channel Presets

1. Press the **[BAND]** button to select the desired band of Presets you wish to access.
2. Press the preset button (1-6) that has your desired Satellite Radio channel stored in the memory.

## ◆ Category Browsing

1. Press and hold the **[BAND]** button to activate the Category Browsing mode.
2. Rotate the **[VOLUME]** knob to select the desired category.
3. Press **[◀◀]** or **[▶▶]** to select the desired channel within the selected Category. You can see the channel name, channel number, artist, title or content by pressing **[DISP]**.
4. Press **[MUTE]** to tune to the selected channel.

### Note:

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

## ◆ Category Scan

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 **[PS/AS]** button to enter Category Scan mode.
2. When a desired channel is tuned in, press the **[PS/AS]** button again to continue receiving that channel.

### Note:

If the current station does not have an associated category, then Category Scan mode can not be accessed.

## ◆ Preset Scan

Preset scan tunes to the channels stored in the preset memory in order. This function is useful when searching the Preset memory for a desired channel.

1. Press and hold the **[PS/AS]** button to enter Preset Scan mode.
2. When a desired channel is tuned in, press the **[PS/AS]** button again to continue receiving that channel.

## ◆ SiriusXM Replay™ function

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

1. While listening to a SiriusXM channel, press the **[MENU]** button to enter Replay mode. The display will show "PAUSE" when entering this mode.
2. Press the **[▶||]** 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 Replay mode.

# SiriusXM® Satellite Radio Operations (M505 only)

## During REPLAY playback

- Fast rewind: Press and hold [◀◀].
  - Fast forward: Press and hold [▶▶].
  - To return to the beginning of the current song: Press [◀◀].
  - To advance to the beginning of the next song: press [▶▶].
3. Press the [MENU] button to end 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.
- Replay mode will not exit if you change to another source and then back to SiriusXM.

## ◆ 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 the [DISP] button. Each time you press this button, the display changes as shown below:

**Channel name => Artist Name => Song Title => Content Info => Category Name => Clock**

### Note:

If there is no text information, nothing will be displayed.

## ◆ 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

1. Press and hold the [MENU] button to access the SiriusXM Menu.
2. Press the [◀◀ / ▶▶] button to select "MATURE CH".
3. Rotate the [VOLUME] knob to select "LOCK" or "UNLOCK".

### Note:

- If you forget the passcode, press and hold the [DISP] button to enter the System Menu, press the [◀◀ / ▶▶] button to select "RESET", and then press [MUTE] to set the passcode to the factory default value.
- Be careful when the [RESET] button is pressed; previously stored preset channels, audio settings, etc. in the memory will be cleared.

## Parental Passcode

1. Press and hold the [MENU] button to access the SiriusXM Menu.
2. Press the [◀◀ / ▶▶] button to select "PARENTAL".
3. Press the [MUTE] button to access change passcode mode.
4. Press the [1~6] buttons to enter the Old passcode and then the New passcode.
5. To confirm the New passcode, enter it a second time.
6. If the passcode change is successful, the LCD will display "SUCCESSFUL".

### Note:

The default passcode set for the Parental Lock is "1111".

## Direct Tune

To access the Mature content channels, select channel by "DIRECT TUNE".

1. Press and hold the [MENU] button to access the SiriusXM menu.
2. Press the [◀◀ / ▶▶] button to select "DIRECT TUNE". Input the desired locked channel and input the passcode, then you can tune to that locked channel.

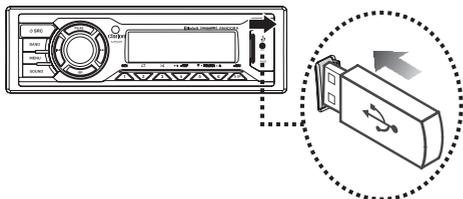
## ◆ SiriusXM Signal

1. Press and hold the [MENU] button to access the SiriusXM Menu.
2. Press the [◀◀ / ▶▶] button to select "SXM SIGNAL".

## USB Mode Operation

### ◆ Connect

1. Open the USB socket cover .
2. Insert the USB device into the USB socket. The unit starts playing from the USB device.
3. 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.



### ◆ Selecting a Track

1. Press the [▶▶] button to advance to the next track/song. Press the [◀◀] button to go to the previous track/song.
2. Press and hold the [▶▶] button to fast forward through the track/song. Press and hold the [◀◀] button 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 [▼ 5 / 6 ▲] button to select a folder.

### ◆ Search Function

1. Press the [MENU] button on the front panel to access MP3 / WMA file search mode.
2. Rotate the [VOLUME] knob to search through all folders on the device then press [MUTE] to enter file list search mode. And then the track list appears in the display.
3. Rotate the [VOLUME] knob to select the desired track within the previously selected folder and press [MUTE] to start playing.

### ◆ Display Function

During playback, pressing the [DISP] button will automatically cycle through the following information on the file being played on the LCD:

**ARTIST -> TITLE -> ALBUM -> CLOCK**

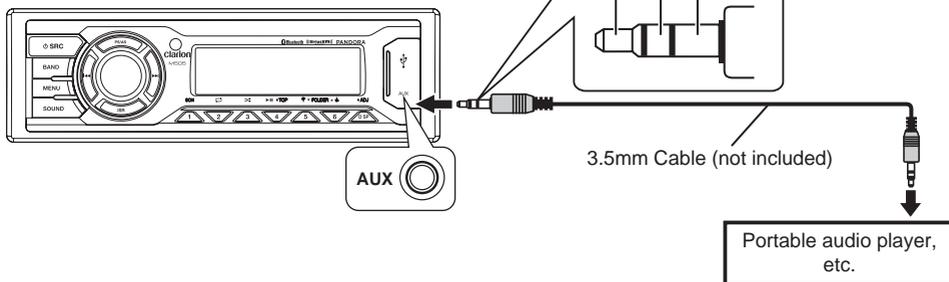
### ◆ Top Function

The top function resets the MP3/WMA player to the first track on the device. Press and hold the [4] button to play the first track on the device.

## AUX Mode Operation

Press the [Φ/SRC] button on the front panel to select "AUX IN".

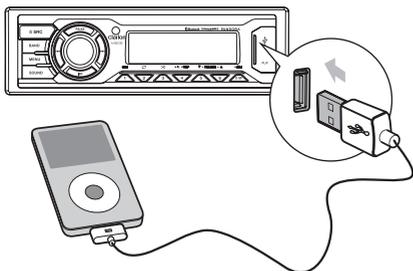
AUX IN is just for audio content with a 3.5mm Jack connector plugged into the audio-in socket on the front panel.



# iPod/iPhone Mode Operation

## ◆ Connect

Connect an iPod/iPhone to the USB socket on the front panel. When connecting a device, the unit will read the files automatically. The track information displays on the screen once playback starts.



## ◆ 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

## ◆ iPod/iPhone Control Music Playback Mode

Press and hold the [MENU] button on the front panel to switch between the two control modes:

- **iPod control mode:** Use the iPod/iPhone to operate the music control.
- **Unit control mode:** Use the head unit to operate the music control.

### Note:

Please make sure the iPod/iPhone cable is connected correctly. And please only use an original iPod/iPhone cable.

## ◆ Selecting a Track

1. Press the [▶▶] button to advance to the next track/song.  
Press the [◀◀] button to go to the previous track/song.
2. Press and hold the [▶▶] button to fast forward through the track/song.  
Press and hold the [◀◀] button 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.

## ◆ iPod Menu Search

1. Press the [MENU] button on the front panel to access iPod menu search mode.
2. Rotate the [VOLUME] knob to switch between categories.  
PLAYLISTS -> ARTIST-> ALBUMS -> SONGS -> GENRES -> COMPOSERS
3. Press the [MUTE] button to confirm the selection.
4. When the desired Playlist, Artist, Album, Song, Genre or Composer is displayed, press the [MUTE] button then the music file will be displayed.
5. Rotate the [VOLUME] knob to select a File.
6. Press the [MUTE] button to confirm the file you want to play.

## ◆ Listening to Pandora®

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

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

When the unit displays "PANDORA APP Unavailable" in Pandora mode, please launch the Pandora Application by operating the iPod/iPhone connected.

Press the [◊/SRC] button to enter Pandora mode.

## Selecting a Station From the List

Press the [MENU] button and select "BY DATE" or "A-Z" by rotating the [VOLUME] knob and press the [MUTE] button.

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

## Thumbs Up/Down

- Thumbs Up

Press the [6 ▲] button on the front panel for thumbs up. Giving a track the thumbs up will tell Pandora to play more tracks like that one.

# iPod/iPhone Mode Operation

## • Thumbs Down

Press the [▼ 5] button on the front panel for thumbs down. Giving a track the thumbs down will skip to the next track, and Pandora will remember not to play that track on the station again.

### Note:

- You can personalize your stations using “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.

## Deleting a Station

1. Press the [MENU] button to access the Pandora menu.
2. Press the [◀◀/▶▶] button to select “DELETE CH”.
3. Rotate the [VOLUME] knob to select “YES”.
4. Press the [MUTE] button to confirm deletion of the current station.

## ◆ BOOKMARK

1. Press the [MENU] button to access the Pandora menu.
2. Press the [◀◀/▶▶] button to select Bookmark.
3. Rotate the [VOLUME] knob to select the Track or Artist.
4. Press the [MUTE] button to create a Bookmark.

## Creating New Stations

1. Press the [MENU] button to access search mode.
2. Press the [◀◀/▶▶] button to select “SEARCH”, and then press the [MUTE] knob to confirm.
3. Rotate the [VOLUME] knob to select the new station, and press the [MUTE] knob to confirm.
4. Rotate the [VOLUME] knob to select the Track or Artist.

**From Track:** Create a new station based on the track that is currently playing (Now Playing Track).

**From Artist:** Create a new station based on the artist that is currently playing (Now Playing Artist)

5. Press the [MUTE] knob to create a new track.

### Note:

If the name of the station you wish to create for a track title or an artist name is the same as the station name currently playing, “NOW PLAY” appears on the display and the station will not be created.

## Skip

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

### Note:

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

## ◆ Display Function

During playback, pressing the [DISP] button will automatically cycle through the following information on the file being played on the LCD:

**ARTIST -> TITLE -> ALBUM -> CLOCK**

# Bluetooth Operation (M505 only)

## ◆ Pairing the Bluetooth Device

1. From your Bluetooth enabled device, turn BLUETOOTH ON and search for Bluetooth devices.
2. When a list of available Bluetooth devices appears on your Bluetooth device, select "M505".
3. "BT CONNECTED" will appear on the 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 the SSP (Simple Secure Pairing) Profile, please enter the passcode "0000".

## ◆ DISCONNECT / DELETE

This unit can store mobile phones in paired order. You can Disconnect/Delete mobile phones from the Bluetooth Mobile Phone Compatibility List.

1. Press and hold the [DISP] button to enter the System menu.
2. Press the [◀◀ / ▶▶] button until "BT MUSIC" is displayed.
3. Press the [MUTE] button to confirm the selection.
4. Rotate the [VOLUME] knob to choose the paired mobile phone name from the pairing list.
5. Press the [MUTE] button to confirm the selection.
6. Rotate the [VOLUME] knob to select "DISCON" or "DELETE" the mobile phone.
7. Press the [MUTE] button to confirm the selection.

## ◆ Audio Streaming Operations What is audio streaming?

Audio streaming is a technique for transferring audio data so 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. Please consult your nearest Clarion dealer for more information on available wireless audio streaming transmitter products.

### ! CAUTION

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

## ◆ 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.

## ◆ Search Function

1. Press the [MENU] button on the front panel to access Search mode.
2. Rotate the [VOLUME] knob to switch between folders.  
PLAYLISTS -> ARTIST -> ALBUMS -> SONGS -> GENRES -> COMPOSERS
3. Press the [MUTE] button to confirm the selection.
4. Press the [MUTE] button to confirm.

### **Note:**

The search feature requires the paired and connected device to incorporate at least Bluetooth AVCRP 1.4 in order to function.

## ◆ Selecting a Track

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

### **Note:**

Playing order will depend on Bluetooth audio player. When the [◀◀] button is pressed, some A2DP devices will restart the current track depending on the duration of playback. During music streaming playback "A2DP" will be shown on the display. When A2DP and HFP devices are disconnected, "BLUETOOTH DISCONNECT" will be shown on the display and the system will return to the previously selected audio source. Some Bluetooth audio players may not allow play / pause synchronization with this unit. Please make sure both the device and the main unit are in the same play / pause status in BT MUSIC mode.

## ◆ ID3 Display

During music streaming playback, press [DISP] to view the ID3 display information:

ARTIST -> TITLE -> ALBUM -> CLOCK

# 6. TROUBLESHOOTING

## GENERAL

Problem	Cause	Remedy
Unit cannot power on.	Unit fuse blown.	Replace with new fuse of correct rating.
	Vessel battery fuse blown.	Replace with new fuse of correct rating.
No/low audio output.	Incorrect 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 vessel.	Insulate all speaker wiring connections.
Poor sound quality or distortion.	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 the wiring and correct.

## USB

Problem	Cause	Remedy
USB device cannot be inserted.	The USB device has been inserted incorrectly.	Reverse the connection direction of the USB device and try 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 it with a different USB device.
	Connectors are loose.	
No sound heard with the display "No File" 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 properly encoded MP3/WMA files.

## Bluetooth (M505 only)

Problem	Cause	Remedy
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.
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.

## 6. TROUBLESHOOTING

### SiriusXM Advisory Messages (M505 only)

Message	Description
CHECK TUNER	Check the SiriusXM tuner connection on the back of the unit to ensure that it is connected correctly.
CHECK 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.
NO SIGNAL	The vessel 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 vessel for the best reception.
CHAN UNSUB	This channel is not included in your SiriusXM subscription plan. To subscribe, call 1-866-635-2349 in the USA and in Canada call 1-877-438-9677.
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 channel that you have requested is Locked by the radio Parental Control feature. See Parental Control on page 12 for more information on the Parental Control feature and how to access locked channels.
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: 8dB  
 Frequency response: 30Hz-15kHz  
 Stereo Separation: >30dB(1kHz)  
 Signal/noise ratio: >55dB

## 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

## MP3/WMA mode

MP3 sampling rate: 32kHz, 44.1kHz, 48kHz  
 MP3 bit rate: 32~384kbps  
 WMA bit rate: 8~320kbps  
 Logical format: ISO9660, Joliet  
 Number of files: Maximum 65535  
 Max directory depth: 8  
 Max File/Directory Name: 64Byte  
 ID3 tag: V2.0 or later

## USB

USB: 2.0 High Speed  
 USB Memory Size: 32G  
 USB Flash Drive and Hard Drive  
 Compatible Format: FAT16/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 reproduction)  
 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: 14.4V DC (10.8 to 15.6V allowable)  
 Fuse: 15A  
 Power output: 50W x 4 channels  
 Speaker Impedance: 4-8 ohms per channel

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

Power Output:  
 RMS 20W x 4 Channels at 4Ω  
 and 1% THD+N  
 Signal to Noise Ratio:  
 74dB (reference: LPF 1 W into 4Ω)



# 8. 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)

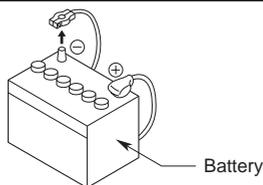


Figure 1

## 2. General Precautions

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

## 3. Installation Precautions

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 vessel body, such as drilling holes, consult your vessel dealer beforehand.
4. Use the enclosed screws for installation. Using other screws can cause damage. (Figure 3)

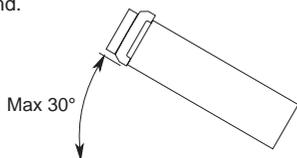


Figure 2

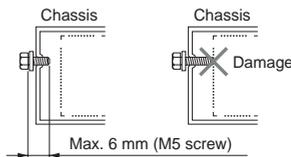
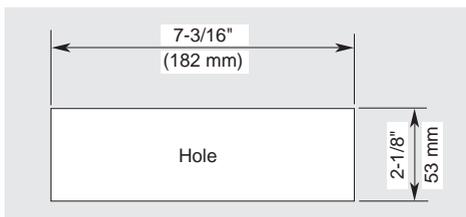


Figure 3

## 4. Installation of the Source Unit

1. Place the mounting bracket into the instrument panel; use a screwdriver to bend each stopper of the mounting bracket inward, then secure the stopper.
2. Wire as shown in Section 7.
3. Insert the source unit into the mounting bracket until it locks.
4. Take care with the top and bottom of the trim ring and mount it so that all the hooks are locked.

### • Console opening dimensions



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

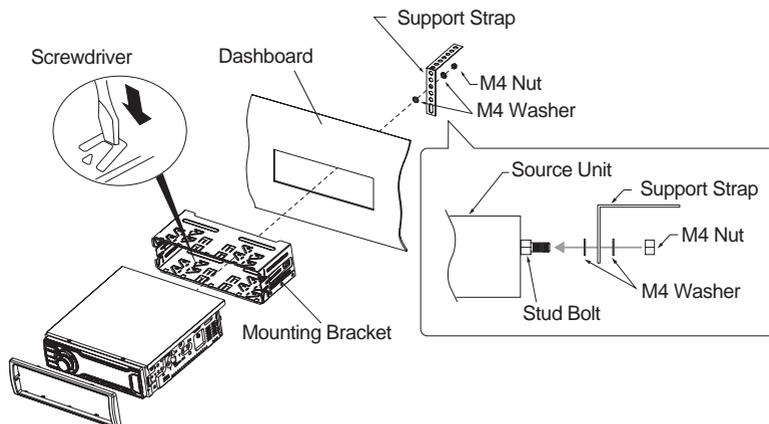
2. Fasten the front stopper securely to prevent the source unit from coming loose.

**Installation notes:**

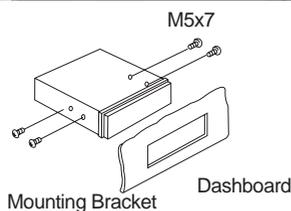
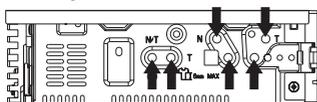
- Before installation, please make sure proper connections are made and the unit operates normally. Incorrect connection may result in damage to the unit.
- Use only accessories designed and manufactured for this unit as other unauthorized accessories may result in damage to the unit.
- Before installation, please connect all power cables.
- DO NOT install the unit close to hot areas to prevent damage to electrical components such as the laser head.
- Install the unit horizontally. Installing the unit at a vertical angle of more than 30 degrees may result in poor performance.
- To prevent electric sparks, connect the positive pole first and then the negative pole.

**Unit installation****Method A**

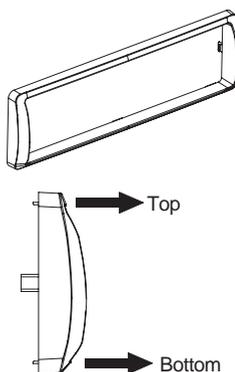
1. Insert the mounting bracket into the dashboard, choose the appropriate mounting tab according to the gap width and bend the mounting tab outwards with a screwdriver to fix the mounting bracket in place.
2. Slide the unit into the bracket until you hear a click.

**Method B**

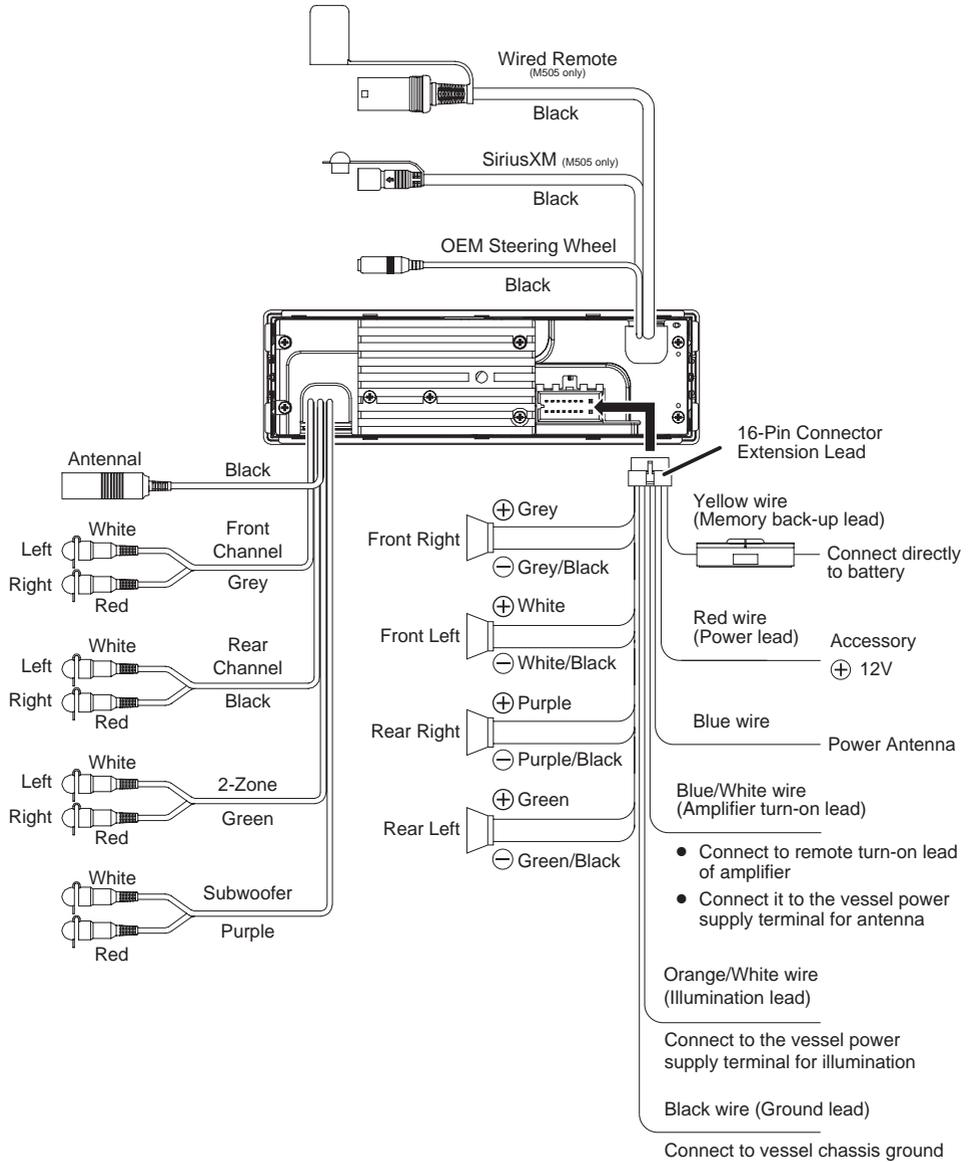
1. Insert this unit directly into the opening in the dashboard.
2. Place M5 × 7 cylindrical screws through the holes in the mounting frame located inside the opening to the holes of the unit and fasten the screws to left & right.

**Trim ring installation**

Attach the trim ring around the front panel. Take care with the top and bottom of the trim ring and mount it so that all the hooks are locked.



# 5. WIRE CONNECTION



# Clarion Corporation of America

---

All Rights Reserved. Copyright © 2015: Clarion Corporation of America  
Printed in China