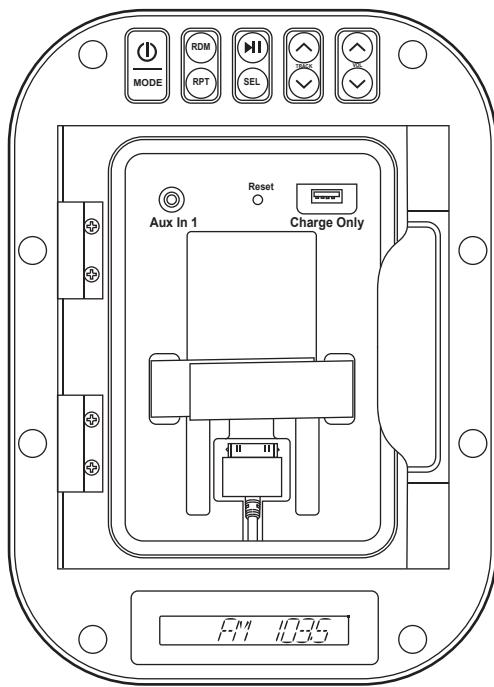




# Operation and Installation Manual

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**Models: MD-150  
MD-250  
MD-350**

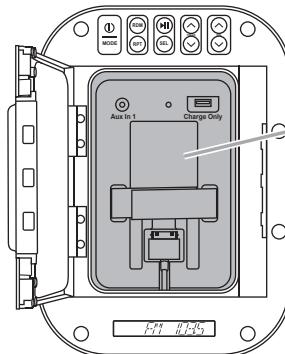
**Deluxe Entertainment Center  
with Docking Station**

## Introduction

Please take the time to read all of the information in this manual. Familiarity with operation and installation procedures will help you obtain the best possible performance from your new Entertainment Center.

## Warnings

- This unit is only IPX5 waterproof when the access door is closed. When connecting a device avoid water getting inside the waterproof compartment. Water in the waterproof compartment may damage this unit, cause electrical shock or fire.
- To prevent a short circuit never put or leave any metallic objects or unconnected 3.5mm or USB cables inside the unit.
- Use the proper power supply. This product is designed for operation with a negative grounded 12V DC system only. Never operate this product with other power supplies, especially a 24V DC. If the product is used with the improper power supply it may cause a fire.
- This product must be installed and used in accordance with this manual. Magnadyne Corporation disclaims any and all liability that may result from failure to install and operate in any other manner in which this unit was intended.
- To prevent fire or electrical shock hazard, do not remove cover or bottom screws. No user-serviceable parts inside. Refer servicing to qualified personnel.



With the Door Open  
the Interior  
Compartment  
IS NOT Waterproof

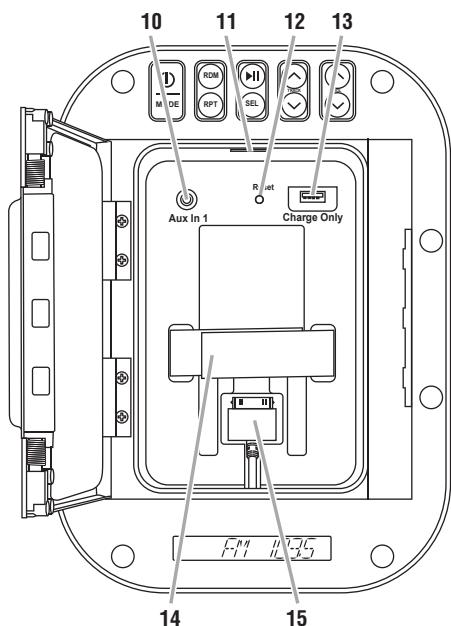
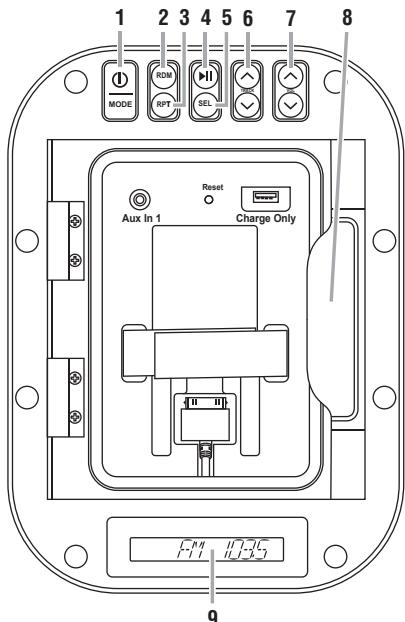


- FCC REGULATIONS STATE THAT ANY UNAUTHORIZED CHANGES OR MODIFICATIONS TO THIS EQUIPMENT MAY VOID THE USER'S AUTHORITY TO OPERATE IT.
- THIS DEVICE IS INTENDED FOR CONTINUOUS OPERATION.
- TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

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## Button Locations and Functions



### 1. Power and Mode Button:

**Power Button:** Press to turn the entertainment center on. Press and hold the button for 2 seconds to turn the unit off.

**Mode Button:** Press to select between input sources:

**Radio:** FM tuner.

**IPOD:** 30-pin connector. (Can be selected only when connected to a device).

**Aux in 1:** 3.5mm jack.

**Aux in 2:** Rear RCA connectors.

**Bluetooth:** Wireless connectivity.

### 2. Random Button (RDM):

Press the button for random controls in IPOD and Bluetooth modes.

### 3. Repeat Button (RPT):

Press the button for repeat controls in IPOD and Bluetooth modes.

### 4. Play/Pause Button (▶||):

**Radio or Auxiliary Mode:** Press to mute the audio.

**IPOD or Bluetooth Mode:** Press to pause playback.

### 5. Select Button:

Press to toggle between: bass, treble, balance, fader, equalizer, area, loudness and local/distance settings.

### 6. Track Buttons:

**Radio Mode:** Press for automatic seek up or seek down of radio stations. Press and hold to activate manual tuning.

**IPOD or Bluetooth Mode:** Press to select the next or previous tracks.

### 7. Volume:

Press to increase or decrease the volume level.

### 8. Door Release Handle:

Lift up on the door handle to open the door.

### 9. Display Area:

This area displays mode information, in the radio mode the radio frequency and in IPOD and supported Bluetooth modes song information is displayed.

### 10. 3.5mm Jack:

Plug a cable into the 3.5mm jack then into a device (MP3 player or phone) with a 3.5mm socket. The unit will not control the device, it simply allows the audio to be played through the system.

### 11. Interior Light:

When the unit is turned on the LEDs will automatically illuminate the interior compartment.

### 12. Reset/Pair Button (Reset):

Press to reset the microprocessor or pair a wireless remote.

## Button Locations and Functions (Continued)

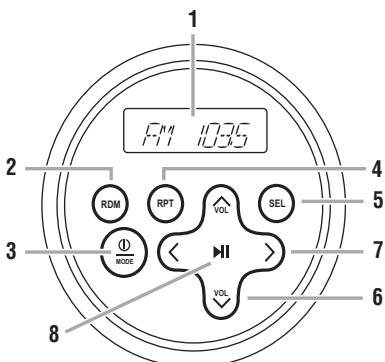
**13. USB Charging Socket:** To charge a device plug the cable into the USB socket then into the device. **Note:** The unit will not control the device. The cable will not transfer audio into the entertainment center.

**14. Mounting Straps:** Holds your device securely inside the unit.

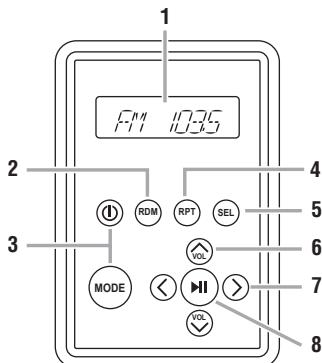
**15. 30-pin Connector for Apple Products:** Plug the 30-pin connector in an IPOD, IPOD or IPHONE. Use the track button to select the desired song.

## Remote Control Button Locations and Functions (Optional)

### Wired Remote Controller



### Wireless Remote Controller



**Note 1:** The wireless remote controller's display will disappear after approximately 30 seconds of no button activity to conserve its battery. Press any button on the remote controller and the LCD display will be restored.

**Note 2:** When the main unit is turned off, the wireless remote controller's display will disappear to conserve its battery. Press any button on the remote controller to restore the remote's display. Then press the **PWR** button to turn on the entertainment center.

**1. Display Area:** This area displays mode information, in the radio mode the radio frequency is displayed.

**2. Random Button (RDM):** Press the button for random controls in IPOD and Bluetooth mode.

### 3. Power and Mode Buttons:

#### Wired Remote Controller's Power Button:

Press to turn the entertainment center on. Press and hold the button for 2 seconds to turn the unit off.

#### Wireless Remote Controller's Power Button:

Press to turn on the entertainment center on. Press again to turn the unit off.

**Mode Button:** Press to select between input sources:

**Radio:** FM tuner.

**IPOD:** 30-pin connector. (Can be selected only when a device is connected).

**Aux in 1:** 3.5mm jack.

**Aux in 2:** Rear RCA connectors.

**Bluetooth:** Wireless connectivity.

**4. Repeat Button (RPT):** Press the button for repeat controls in IPOD and Bluetooth mode.

**5. Select Button:** Press to toggle between: bass, treble, balance, fader, equalizer, area, loudness and local/distance settings.

**6. Volume:** Press to increase or decrease the volume level.

### 7. Track Buttons:

**Radio Mode:** Press for automatic seek up or down for radio stations. Press and hold to activate manual tuning.

**IPOD or Bluetooth Mode:** Press to select the next or previous tracks.

### 8. Play/Pause Button (▶||):

**Radio or Auxiliary Modes:** Press to mute the audio. Press again to restore audio.

**IPOD or Bluetooth Mode:** Press to pause playback. Press again to resume play.

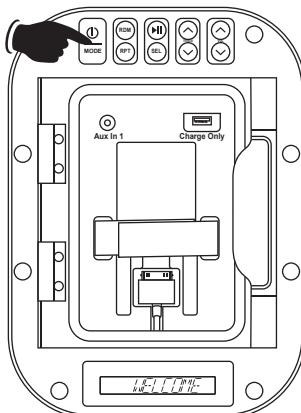
## General Operations

## Power On:

Press the **⊕ / MODE** button to turn the entertainment center on.

Power Off:

Press and hold the **⊕ / MODE** button for 2 seconds to turn the unit off.



## Selecting a Play Source:

Press the **MODE** button to select between input sources. The source will appear in the display.

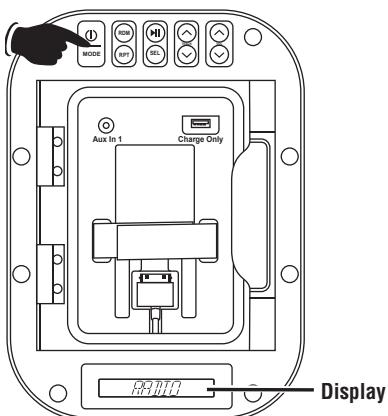
Radio: FM tuner.

**IPOD:** 30-pin connector. (Can be selected only when a device is connected).

Aux in 1: 3.5mm jack

## Aux in 2: Rear RCA connectors.

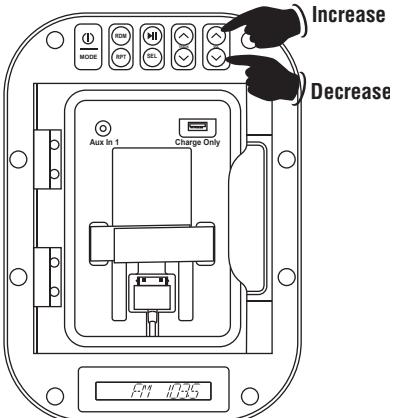
### Bluetooth: Wireless connectivity.



## Sound Controls

**Volume:**

Increase the volume by pressing the **VOL ▲** button. Decrease the volume by pressing the **VOL ▼** button.



## Sound Controls (Continued)

### Bass, Treble, Balance, Fader and Equalizer Control

Select the desired sound mode by pressing the **SEL** button. The modes will be displayed in the following order: Bass, Treble, Balance, Fader, Equalizer, Area Setting, Loudness, Distance/Local and Volume. After 5 seconds of inactivity control reverts back to volume control.

#### Bass:

Select the Bass mode by pressing the **SEL** button and "BAS 0" will appear in the display. Increase the Bass by pressing the **VOL  $\wedge$**  button. Decrease the Bass by pressing the **VOL  $\vee$**  button.

#### Treble:

Select the Treble mode by pressing the **SEL** button until "TRE 0" appears in the display. Increase the Treble by pressing the **VOL  $\wedge$**  button. Decrease the Treble by pressing the **VOL  $\vee$**  button.

#### Balance:

Select the Balance mode by pressing the **SEL** button until "BAL L=R" appears in the display. Adjust the Balance to the right speakers by pressing the **VOL  $\wedge$**  button. Adjust the Balance to the left speakers by pressing the **VOL  $\vee$**  button.

R: L = Equal sound Right and Left.

R 10R = Right speakers only.

L 10L = Left speakers only.

#### Fader:

Select the Fader mode by pressing the **SEL** button until "FAD F=R" appears in the display. Adjust the Fader to the front speakers by pressing the **VOL  $\wedge$**  button. Adjust the Fader to the Rear speakers by pressing the **VOL  $\vee$**  button.

F: R = Equal sound Front and Rear.

F 10F = Front speakers only.

R 10R = Rear speakers only.

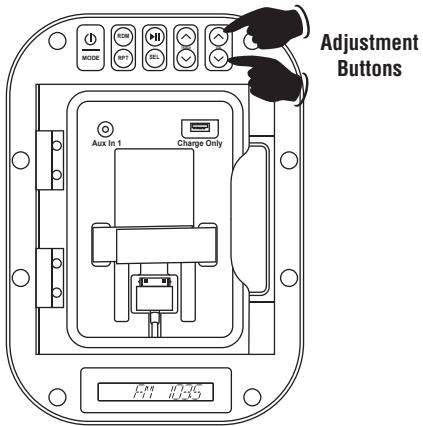
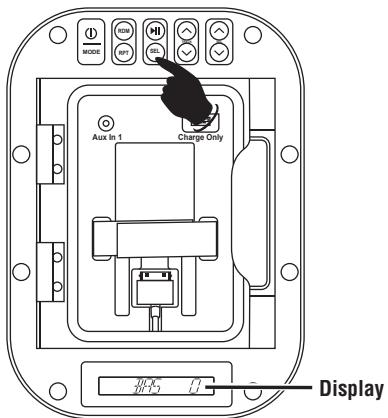
#### Equalizer (EQ):

Select the Equalizer mode by pressing the **SEL** button until "DSP OFF" appears in the display. To change the equalizer setting press the **VOL  $\wedge$**  button. Select between: Flat, Pop, Jazz, Rock, Classic and Equalizer Off (DSP OFF).

**Note:** When an Equalizer setting is selected (Flat, Pop, Jazz, Rock or Classic) both the Bass and Treble mode will become inactive and can not be selected. To change the bass and treble settings set the Equalizer to "DSP OFF".

#### Loudness:

Loudness will boost high and low tones at low volume levels. To turn on Loudness press the **SEL** button until "LOUD OFF" appears in the display. Press the **VOL  $\wedge$**  button and "LOUD ON" will appear in the display. Loudness mode is now activated.

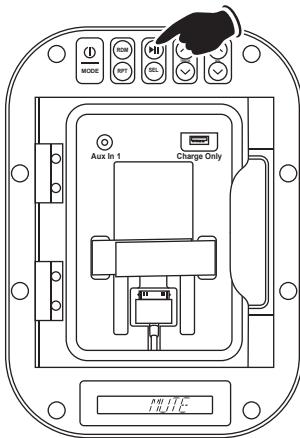


## Sound Controls (Continued)

### Mute:

Press the **▶||** button to mute the volume level.  
Press the **▶||** button again to restore the volume.

**Note:** If the unit is in either the IPOD or Bluetooth mode pressing the **▶||** button will pause playback. Press the **▶||** button again will resume playback.



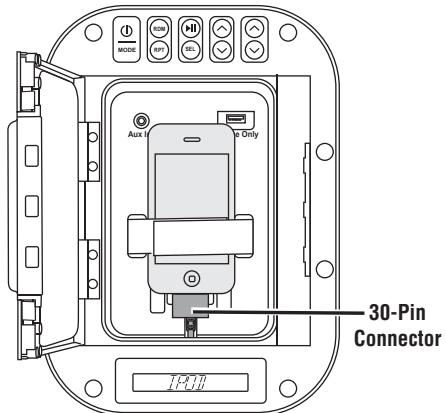
## Using an IPHONE or IPOD

### Inserting an IPHONE or IPOD into Docking Station:

1. Open the waterproof door.
2. Remove the 30-pin connector from its recessed area.
3. Plug the 30-pin connector into the Apple device.
4. Secure the Apple device with the mounting straps.
5. Close the waterproof door.

**Note 1:** If your Apple device uses a lightning connector a lightning adapter will plug into the 30-pin connector and will allow you to operate the device normally.

**Note 2:** If you use the USB cable that came with your Apple device and plug it into the **Charge Only** socket it will only charge the Apple device.



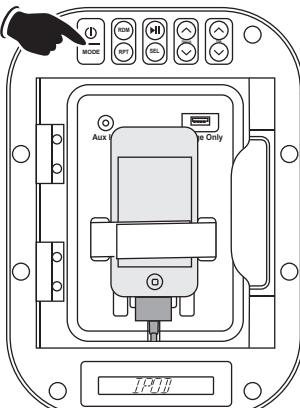
### Operating an IPHONE or IPOD:

#### Selecting the IPOD Mode:

Press the **MODE** button until "IPOD" appears in the display.

**Note 1:** The unit will automatically switch to the "IPOD" mode when the IPHONE or IPOD is initially connected to the 30-pin connector.

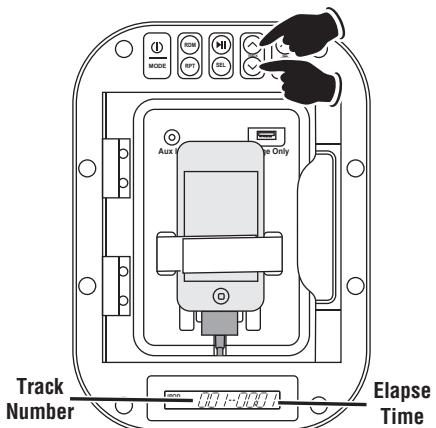
**Note 2:** The display will show Track/Elapsed Time, Title, Artist and Album.



## Using an IPHONE or IPOD

### Changing the Track:

Press the **↗ TRACK** button to select a higher track. Press the **↘ TRACK** button to select a lower track.



### Random Play Selection:

The default setting is the Random feature is off.

#### Random Track Selection:

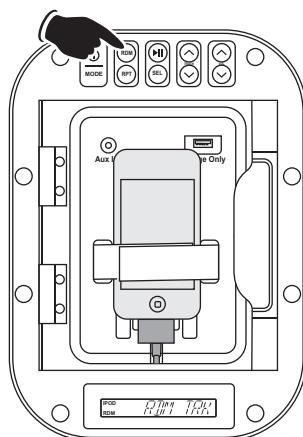
To randomly play tracks press the **RDM** button until "RDM TRK" appears in the display. The tracks will now play in a random order.

#### Random Album Selection:

To randomly play albums press the **RDM** button until "RDM TRK" appears in the display. Press the **RDM** button again until "RDM ABM" appears in the display. The albums will now play in random order.

#### Cancelling Random Play:

To cancel random play keep pressing the **RDM** button until "RDM OFF" appears in the display.



### Repeat Play Selection:

The default setting is the Repeat feature is off.

#### Repeat Track Selection:

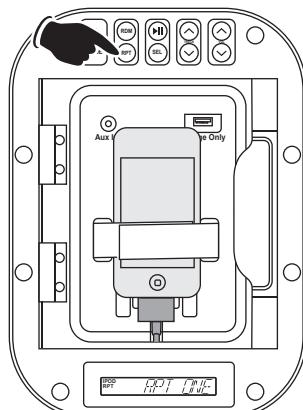
To repeatedly play a track press the **RPT** button until "RPT ONE" appears in the display. The track will play repeatedly.

#### Repeat Album Selection:

To repeatedly play all tracks press the **RPT** button until "RPT ONE" appears in the display. Press the **RPT** button again until "RPT ALL" appears in the display. All the tracks will play repeatedly.

#### Cancelling Repeat Play:

To cancel repeat play keep pressing the **RPT** button until "RPT OFF" appears in the display.



## Using an IPHONE or IPOD

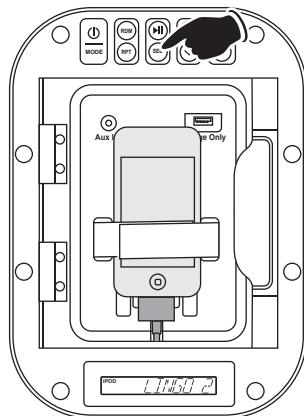
### Lingo Modes:

**Lingo Mode 4 (default):** Devices with iOS 6.1 software or higher the touch screen for music is active. Devices with non-iOS or older versions of iOS software, the touch screen for music is inactive. In lingo mode 4 song information will be shown in the LCD display.

**Lingo Mode 2:** Devices with non-iOS or older versions of iOS software the touch screen is active. In lingo mode 2 song information will not be display. Only play, pause and track buttons are active.

### Changing the Lingo Mode:

1. Press and hold the **SEL** button until “LINGO 4” appears in the display.
2. Press the **VOL ▲** button and “LINGO 2” appears in the display.
3. Press the **SEL** button to confirm your selection. The non-iOS software device can now be directly accessed.



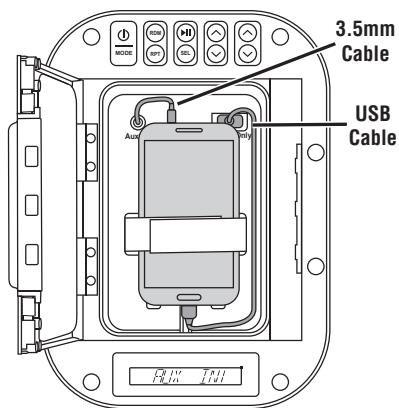
## Using a Device with 3.5mm Audio Output

### Inserting a Device with 3.5mm Audio Output Jack into Docking Station:

1. Open the waterproof door.
2. Plug a 3.5mm cable (not supplied) into the docking station and then into the device.
3. Plug a USB cable (not supplied) into the docking station and then into the device.
4. Secure the device with the mounting straps.
5. Close the waterproof door.

**Note 1:** The USB cable does not have to be connected for proper operation. Connecting the USB cable will only charge the device. No data transfer will occur.

**Note 2:** If cables are not being used remove the cable from the waterproof compartment.



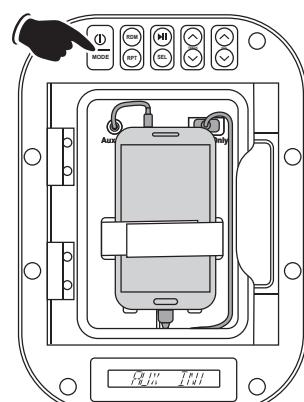
### Selecting the Input Mode:

1. Press the **MODE** button until “AUX IN1” appears in the display.
2. Use the controls on the entertainment center to adjust the volume.

**Note 1:** The unit will not automatically switch to “AUX IN1” mode when the device is initially connected to the 3.5mm cable. Select “AUX IN1” using the **MODE** button.

**Note 2:** The entertainment center will not control the device it just allows for the audio from the device to play through the entertainment center.

**Note 3:** For optimum sound quality make sure the media volume on the device is set at 75% or greater.



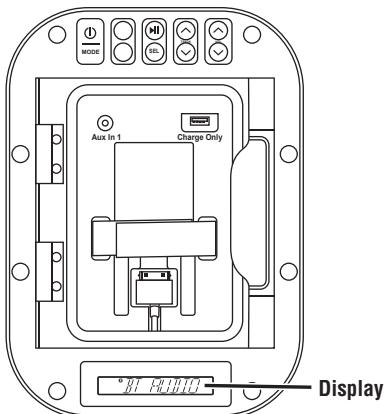
## Bluetooth Operation

### Pairing Bluetooth Devices:

1. Open the Bluetooth setup program on the mobile device and activate the Bluetooth feature.
2. Press the **◊** button to turn on the entertainment center.
3. From your mobile device scan for available devices. Select "AQUAVIBE" to connect to the unit.
4. When the mobile device has been paired "BT" will appear in the entertainment center's display.
5. Press the **MODE** button until "BT AUDIO" appears in the display. Bluetooth audio from your mobile device can now be played through the entertainment center.

**Note 1:** A previously paired Bluetooth mobile device will automatically connect to the entertainment center when "BT AUDIO" is selected using the **MODE** button (if it is within range).

**Note 2:** If the Bluetooth mobile device is already paired with the entertainment center, select "AQUAVIBE" on your phone and touch "Connect".



### Bluetooth Operation:

**Note:** Devices with AVRCP 1.3 or above will display text, all other device will simply show "BT AUDIO"

**Play/Pause Button:** Press the **▶||** button to pause the Bluetooth playback. Press again to resume playback.

**Note:** The Entertainment Center display will not show the playback is pause. The mobile device will show that the playback is paused.

### Changing the Track:

Press the **▲ TRACK** button to select a higher track.

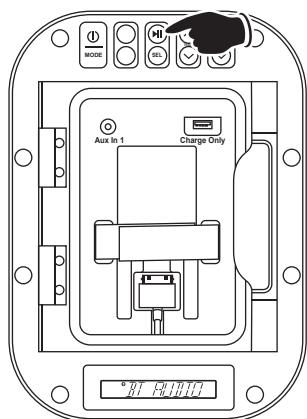
Press the **▼ TRACK** button to select a lower track.

**Sound Controls:** Use the sound controls on the main unit to adjust the volume and sound quality.

**Note:** For optimum sound quality make sure the media volume on the device is set at 75% or greater.

**Random Controls:** Press the **RDM** button for random controls. Selecting "RDM ON" will randomly play tracks. Selecting "RDM OFF" will cancel random play.

**Repeat Controls:** Press the **RPT** button for repeat controls. Selecting "RPT ONE" will repeatedly play a track. Selecting "RPT ALL" will repeatedly play all the tracks. Selecting "RPT OFF" will cancel repeat play.



**Note:** During Bluetooth audio streaming the multi-media device (IPHONE/smart phone) can be placed in the dock and charged by the USB socket.

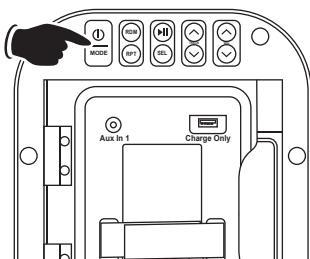
## External Rear Audio Input

### Selecting the Input Mode:

1. Press the **MODE** button until "AUX IN2" appears in the display.
2. Use the controls on the entertainment center to adjust the volume.

**Note 1:** The entertainment center will not control the device it just allows for the audio from the device to play through the entertainment center.

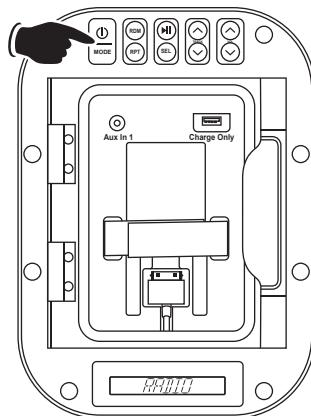
**Note 2:** For optimum sound quality make sure the media volume on the device is set at 75% or greater.



## Radio Operations

### Selecting the FM Radio Mode:

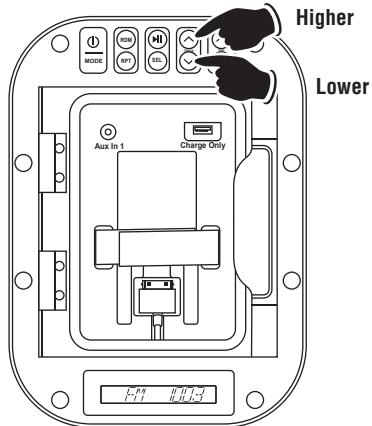
Press the **MODE** button until “RADIO” appears in the display. After a brief moment “FM” will appear in the display along with the radio frequency.



### Tuning in a Radio Station Using Seek:

Press the **TRACK ▲** button and the tuner will seek up to the next strong station and stop seeking, then start playing.

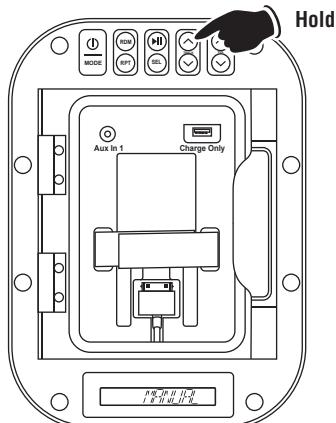
Press the **TRACK ▼** button and the tuner will seek down to the next strong station and stop seeking, then start playing.



### Manually Tuning in a Radio Station:

Press and hold the **TRACK ▲** button until “MANUAL” appears in the display. Then press the **TRACK ▲** button to manually tune to a higher radio station or press the **TRACK ▼** button to manually tune to a lower radio station.

**Note:** After 5 seconds of inactivity control reverts back to scan tuning. “AUTO” will be displayed in the LCD.



## Radio Operation (Continued)

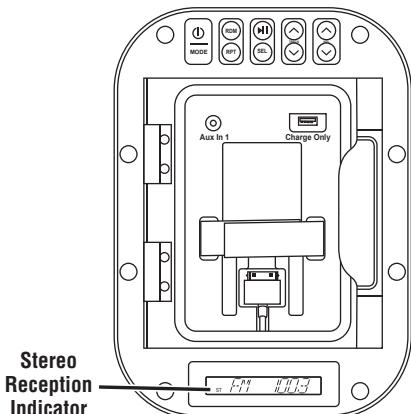
### Stereo/Mono Operation:

**Note:** "ST" will appear in the display when a FM stereo station is being received.

For weaker FM stereo stations selecting mono reception usually improves reception.

1. To switch from stereo to mono reception press the **SEL** button until "STEREO" appears in the display.
2. Press the **VOL ▲** button and "MONO" will appear in the display.

**Note:** The unit will leave feature programming after 5 seconds of no button activity.

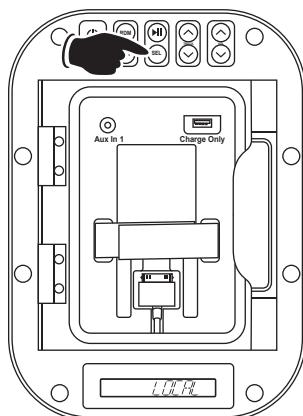


### Distance/Local Reception Operation:

When scanning for station to eliminate weaker fringe stations change the radio reception from Distance (DX) to Local (LOCAL).

1. To switch from distance to local reception press the **SEL** button until "DX" appears in the display.
2. Press the **VOL ▲** button and "LOCAL" will appear in the display.

**Note:** The unit will leave feature programming after 5 seconds of no button activity.

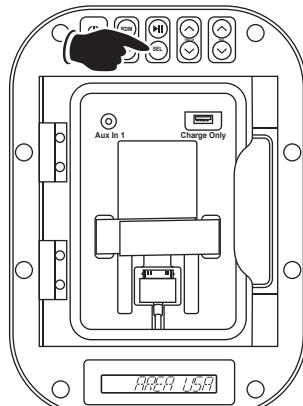


### Switching from US to Europe Radio Tuning

**Note:** Do not change if using in North America.

1. Press the **SEL** button until "AREA USA" appears in the display.
2. Press the **VOL ▲** button and "AREA EUR" will appear in the display.

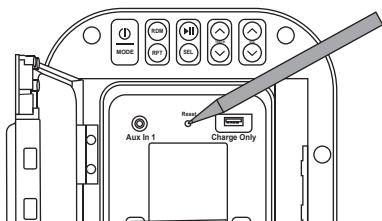
**Note:** The unit will leave feature programming after 5 seconds of no button activity.



## Reset

### Resetting the System:

To reset the microprocessor to the original factory settings use a ball point pen and press the **RESET** button located in the interior of the waterproof compartment.

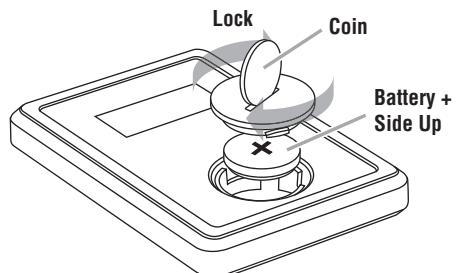


## Inserting a Battery into Remote Controller

### Inserting a Battery:

1. Use a coin to unlock the battery cover.
2. Insert the battery with the + side of the battery facing up.
3. Replace the battery cover and use a coin to lock the battery cover making sure it locks into place.

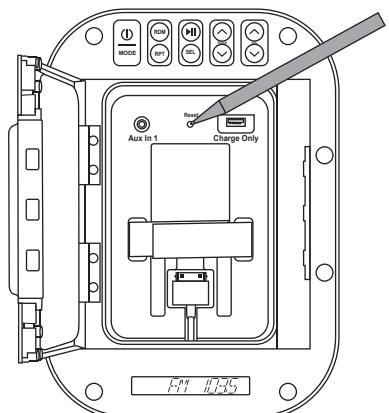
**Note:** When the text in the LCD is dim, replace the battery.



## Programming a Wireless Remote Controller

### Programming a Wireless Remote Controller:

1. To pair the wireless remote with the dock push and hold the **MODE** button on the remote controller until "PAIR" appears in it's display.
2. While still holding the **MODE** button on the wireless remote controller, press the **RESET** button in the interior of the waterproof compartment to pair the devices.
3. If the pairing is successful, the dock will restart and "PAIR" will disappear from the remote's display. Release the **MODE** button on the remote controller.



## Installation

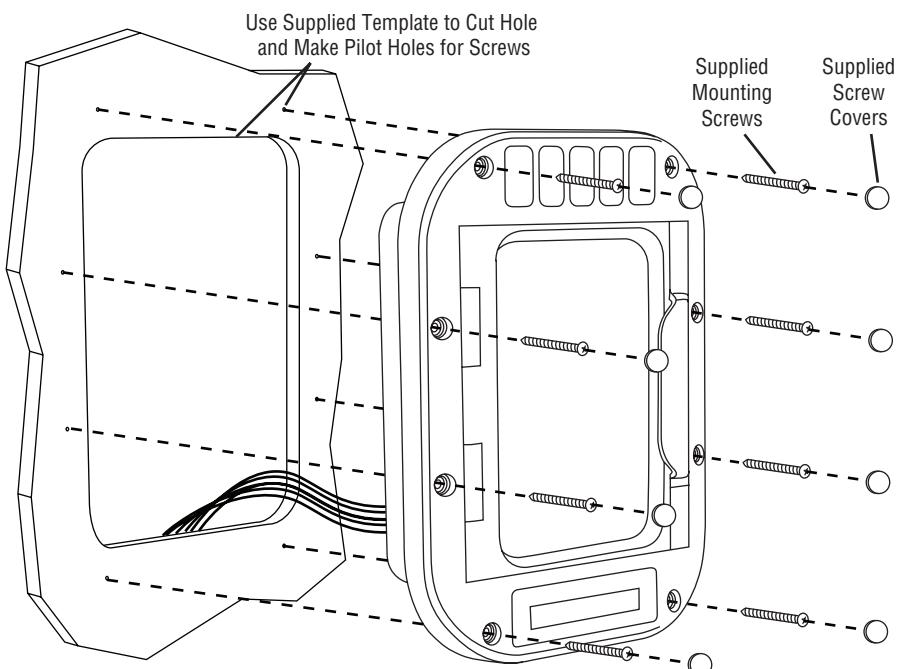
### Installing Entertainment Center

1. Use the template included to determine the best location for the entertainment center.  
**Note:** The mounting location needs to be a flat surface.
2. Cut out the mounting hole and drill pilot holes for the screws.

3. Mount the entertainment center using the provided screws. Make sure to tighten the screws equally to create a waterproof seal.

**Note:** If the surface is uneven like wood, use silicone to create a waterproof seal between the uneven surface and the entertainment center.

4. Install the screw covers.

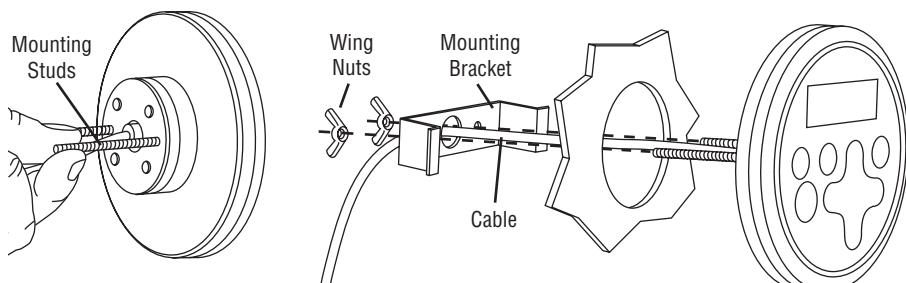


### Installing Wired Remote (Optional)

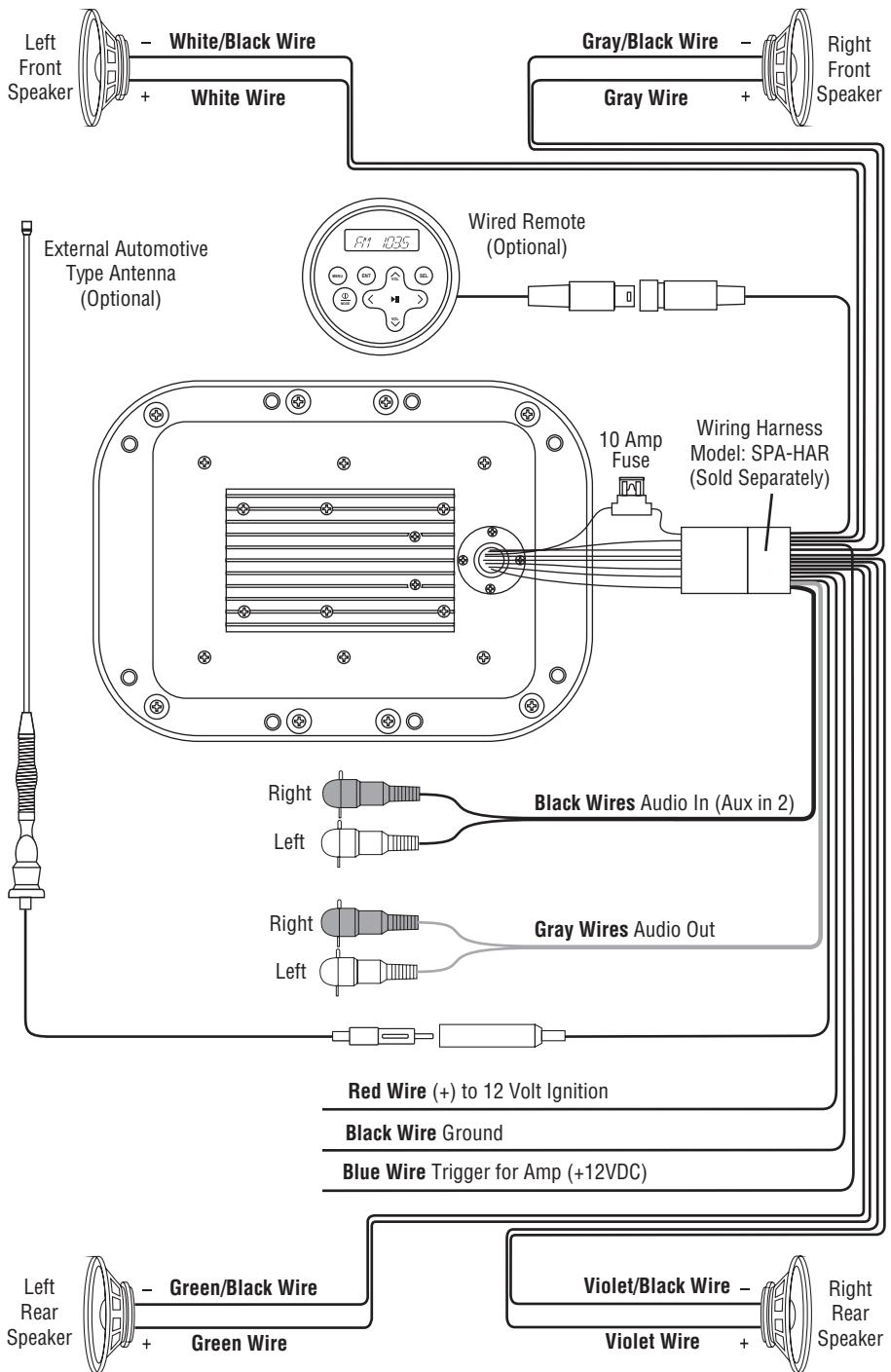
1. Install mounting studs into rear of remote controller. Hand tighten the studs only.
2. Cut a 2-1/8" hole.
3. Insert cable from remote controller through the hole and then mounting bracket.
4. Slide mounting bracket onto mounting studs.

5. Screw the wing nuts onto the studs and hand tighten them against the mounting bracket. Do not use pliers to tighten the wing nuts.

**Note:** If the surface is uneven like wood, use silicone to create a waterproof seal between the uneven surface and the remote control.



## Wiring



### ONE (1) YEAR LIMITED WARRANTY

Magnadyne Corporation or its authorized agents will within one year from the date of sale to you, repair, replace or refund the retail sales price of said product or any part thereof, at the option of the Magnadyne Corporation or its authorized agents, if said product or part is found defective in materials or workmanship, when properly connected and operating on the correct power requirements designated for the specific product. This warranty and Magnadyne Corporation or its authorized agent's obligations hereunder do not apply where the product was; damaged while in the possession of the consumer, subjected to unreasonable or unintended use, not reasonably maintained, utilized in commercial or industrial operations, or serviced by anyone other than Magnadyne Corporation or its authorized agents, or where the warning seal on the product is broken or the power and/or plugs are detached from the unit. Magnadyne Corporation or any of its authorized agents will not assume any labor costs for the removal and reinstallation of any product found to be defective, or the cost of transportation to Magnadyne Corporation or its authorized agents. Such cost are the sole responsibility of the purchaser.

This warranty does not cover the cabinet appearance items or accessories used in connection with this product, or any damage to recording or recording tape, or any damage to the products resulting from improper installation, alteration, accident, misuse, abuse or acts of nature.

MAGNADYNE CORPORATION OR ITS AUTHORIZED AGENTS SHALL NOT BE LIABLE TO ANYONE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OR CLAIMS EXCEPT THOSE ACCORDED BY LAW. NO EXPRESSED WARRANTY OR IMPLIED WARRANTY IS GIVEN EXCEPT THOSE SET FORTH HEREIN. NO IMPLIED WARRANTY SHALL EXTEND BEYOND ONE YEAR FROM THE DATE OF SALE.

This warranty extends only to the original purchaser of the product and is not transferable. Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

**“NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the User’s authority to operate the equipment.”**

Defective merchandise should be returned to the original point of purchase or secondly, to Magnadyne Corporation, 1111 W. Victoria Street, Compton CA 90220.

Return Authorization must be obtained before sending, or merchandise may be refused.

FCC Statement:

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.

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.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.