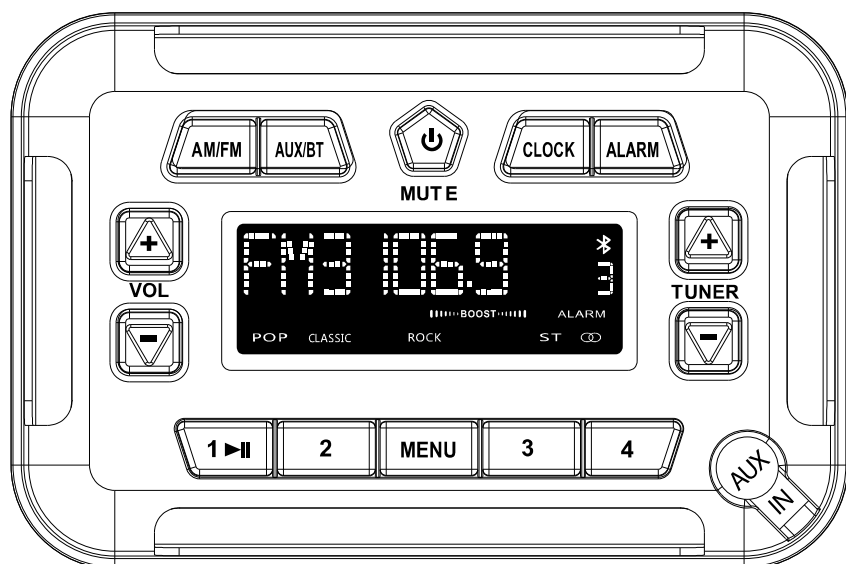


# Operation / Installation Manual

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AM/FM Bluetooth  
Mini Radio  
**AT449150**

# 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 AM/FM Bluetooth Mini Radio.

### WARNING!

- 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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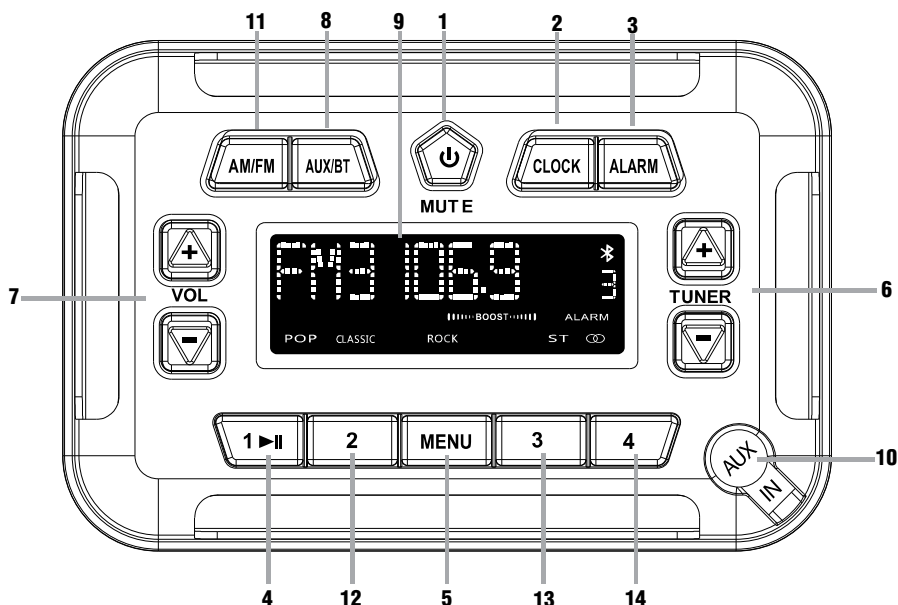
### FCC Warning

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.

NOTE 1: 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.

## Button Locations and Functions



### 1. Power/Mute Button (MUTE):

**Power:** Press to turn the unit on when the unit is off, press and hold the button to turn the unit off.

**Mute:** When the unit is on press and release this button to mute the audio, press again to restore the audio.

### 2. CLOCK Button:

Press to switch between information display and clock.

Press and hold to enter time adjustment setup.

### 3. ALARM Button:

Press to switch between information display and alarm clock.

Press and hold to enter alarm adjustment setup.

### 4. Radio Station #1 / Play/Pause Button (▶||):

**Radio:** Recalls a memorized radio station or programs a radio station into memory #1.

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

### 5. MENU Button:

Press to toggle between: bass ("BAS"), treble ("TRE"), balance ("BAL"), equalizer ("EQ OFF", "ROCK", "JAZZ", "CLASSICS", "POP"), boost ("BOOST ON", "BOOST OFF")

Press and hold to enter the 2nd menu:

"MONO"/"STEREO", local/distance ("LOCAL"/"DX"), "AREA USA 1"/"AREA USA 2"/"EUROPE", "ALARM ON"/"ALARM OFF", clock display priority ("DISP ON"/"DISP OFF")

### 6. Tune / Track Buttons:

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

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

### 7. Volume:

Press to increase or decrease the volume level.

### 8. AUX/BT:

Press to select between input sources BT and AUX.

### 9. Display Area:

This area displays mode information. In the radio mode the radio frequency is displayed. In supported Bluetooth modes, song track information is displayed.

### 10. AUX Jack (3.5mm):

Accepts headphone output from any audio device (MP3 player or phone). A 3.5mm male to male stereo cable is required.

### 11. AM/FM:


Press to select between input bands FM1, FM2, FM3, AM1, AM2

### 12-14. Radio Station Recall Buttons 2-4


Recalls a memorized radio station or programs a radio station into memory.

## General Operations


### Power On:

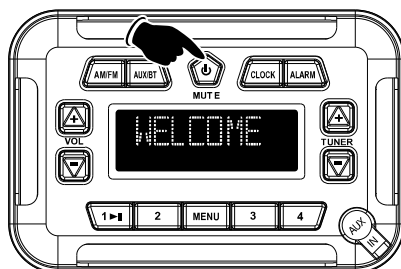
Press the  / **MUTE** button to turn the entertainment center on.

### Power Off:

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

### Mute:

When the unit is on press and release the  / **MUTE** to mute the audio. Press again to restore the audio.



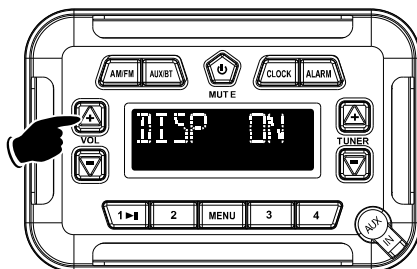
### Current Time Display Selection:

Press and hold the **MENU** button to enter 2nd menu. The first screen displayed in the 2nd menu is either "STEREO" or "MONO". Short press the **MENU** until "DISP OFF" or "DISP ON" appears on the screen.



Press either the **VOL+** or **VOL-** button to toggle to one of the 2 desired screen appearances:

1. "DISP ON": Screen will remain on clock display.
2. "DISP OFF": Screen will display radio station in RADIO mode, track information in BT AUDIO mode or AUX mode.

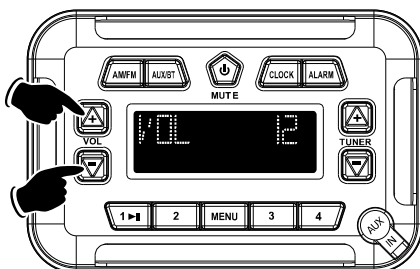


## Sound Controls

### Volume:

Increase the volume by pressing the **VOL+** button.

Decrease the volume by pressing the **VOL-** button.

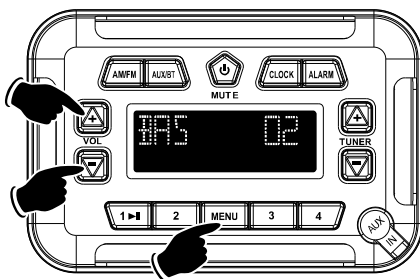


### Bass, Treble, Balance, Equalizer, Boost:

Select the desired sound mode by pressing the **MENU** button. The modes will be displayed in the following order: Bass, Treble, Balance, Equalizer, Boost and Volume.

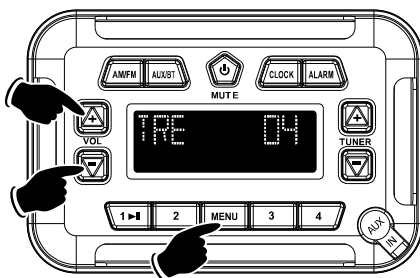
#### Bass:

Press the **MENU** button until “BAS” appears in the display. Press the **VOL+** or **VOL-** buttons to adjust Bass levels from -10 to +10.



#### Treble:

Press the **MENU** button until “TRE” appears in the display. Press the **VOL+** or **VOL-** buttons to adjust Treble levels from -10 to +10.



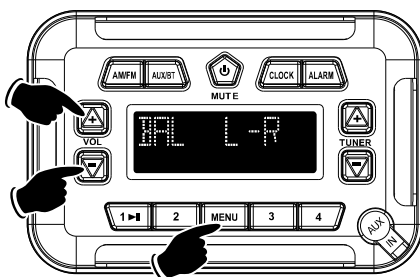
#### Balance:

Press the **MENU** until “BAL” appears in the display. Press the **VOL+** or **VOL-** buttons to adjust speaker balance from:

“BAL L-R” = Equally left and right balanced.

“BAL 10-R” = Right speakers only.

“BAL 10-L” = Left speakers only.

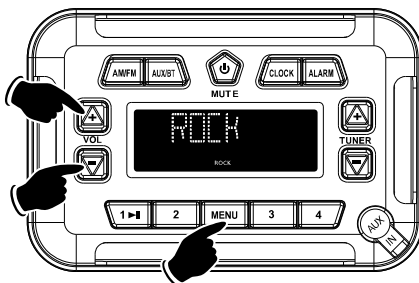


## Sound Controls (continued)

### Equalizer (EQ):

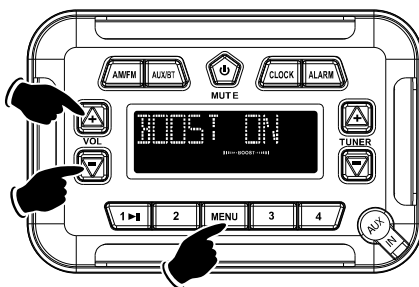
Press the **MENU** button until “EQ” appears in the display. Press the **VOL+** or **VOL-** button to select between: “POP”, “CLASSIC”, “JAZZ”, “ROCK”, or “EQ OFF”.

Note: To manually adjust bass and treble settings, the equalizer setting must be set to “EQ OFF”.



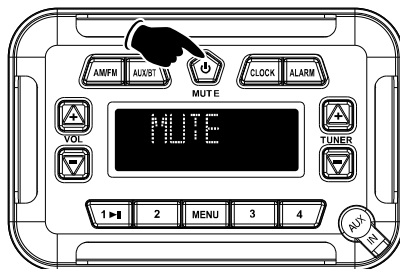
### BOOST:

Boost will boost bass tones at low volume levels. To turn on boost press the **MENU** button until “BOOST ON” appears in the display. Press the **VOL+** or **VOL-** button to toggle and select between the 2 settings.



### MUTE:

Press the **MUTE** button to mute the audio. Press the **MUTE** button again to restore the audio.



## Using a Device with 3.5mm Audio Output

To connect a portable audio device (MP3 player, IPOD, etc.) to the AT449150, connect the headphone or line level output of the device to the 3.5mm AUX input jack of the AT449150 using a 3.5mm audio patch cord. (not included)

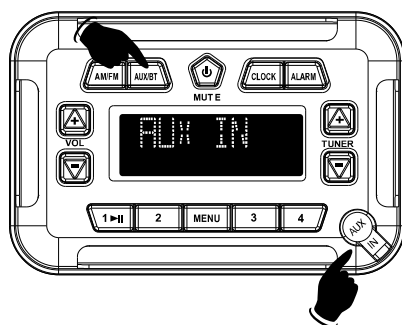
### Selecting the Input Mode:

1. Press the **AUX/BT** button until "AUX IN" appears in the display.
2. Use the controls on the AT449150 to adjust the volume and sound quality levels.

Note 1: The AT449150 will not automatically switch to "AUX IN" mode when an audio device is initially connected. "AUX IN" must be selected using the **AUX/BT** button.

Note 2: The AT449150 will not control the connected device. It just allows for the audio from the connected device to play through the unit. Use the connected devices controls to play/pause and navigate audio tracks.

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



3.5mm AUX IN Jack

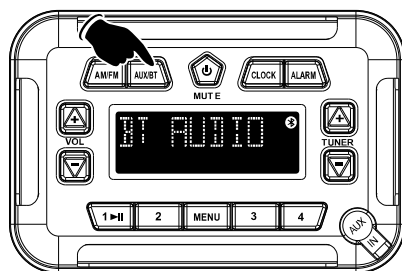
## Bluetooth Operation

### Pairing Bluetooth Devices:

1. Open the Bluetooth setup program on the mobile device and activate the Bluetooth feature.
2. Press the **⏻** to turn on the AT449150.
3. With the mobile device in range of the AT449150, scan and select "AT449150" to connect the two devices.
4. When the mobile device has been paired **📶** will appear in the AT449150 display.
5. Press the **AUX/BT** button until "BT AUDIO" appears in the display. Audio from your mobile device can now be played through the AT449150.

Note 1: A previously paired Bluetooth mobile device will automatically connect to the AT449150 when "BT AUDIO" is selected using the **AUX/BT** button (If it is within range).

Note 2: If a code is asked for enter "0000".



## Bluetooth Operation (continued)

### Play/Pause:

Press the **▶||** button to pause the Bluetooth playback.  
Press again to resume playback.

Note: The mobile device displays that playback is paused, not the AT449150.

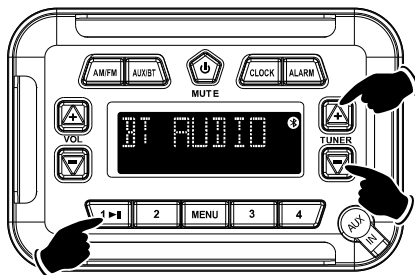
### Changing the Track:

Press the **TUNER +** button to select the next track.  
Press the **TUNER -** button to select the previous track.

### Sound Controls:

Use the sound controls on the AT449150 to adjust volume and sound quality.

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

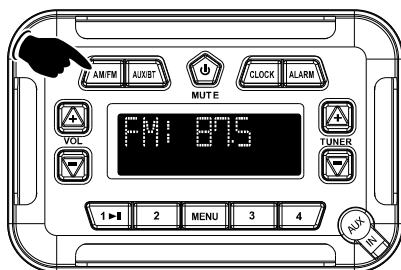


## Radio Operation

### Selecting the AM/FM Radio Mode:

Press the **AM/FM** button until "RADIO" appears in the display. After a brief moment an FM or AM station will appear on the display.

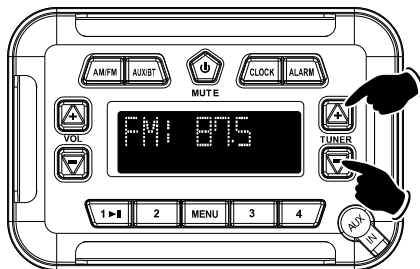
Press again to select from: FM1, FM2, FM3, AM1 or AM2



### Tuning in a Radio Station Using Seek:

Press the **TUNER+** button and the radio will scan UP to the next strong station and begin playing.

Press the **TUNER-** button and the radio will scan DOWN to the next strong station and begin playing.



### Manually Tuning in a Radio Station:

Press and hold the **TUNER+** or **TUNER-** button until "MANUAL" appears in the display. Then press the **TUNER+** button to tune to a higher frequency station or press the **TUNER-** button to tune to a lower frequency station.

Holding either button down when in "MANUAL" mode will move the scan quickly.

Note: After 5 seconds of inactivity the tuner reverts back to seek mode, "AUTO" briefly displaying on the LCD.





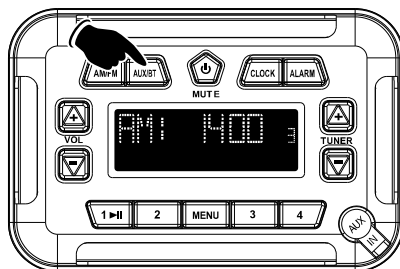
## Radio Operation (continued)

### Scanning and Automatically Storing Radio Stations:

While the unit is in "RADIO" mode press and hold the **AUX/BT** button until the tuner begins to scan forward. The tuner will go through all the frequencies storing in the strongest available stations. The new stored stations will replace stations that were previously stored.

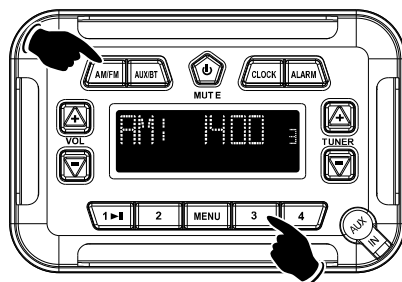
When in FM band mode the 12 strongest frequency stations will be stored: FM1 - 4 stations, FM2 - 4 stations, FM3 - 4 stations.

When in AM band mode the 8 strongest frequency stations will be stored: AM1 - 4 stations, AM2 - 4 stations



### Memorizing Radio Stations:

1. Tune in the desired radio station within FM1, FM2, FM3, AM1 or AM2.
2. Hold anyone of the four radio station recall buttons until the preset number appears. The station is now stored into that buttons recall memory. (FM - 12 total, AM - 8 total)



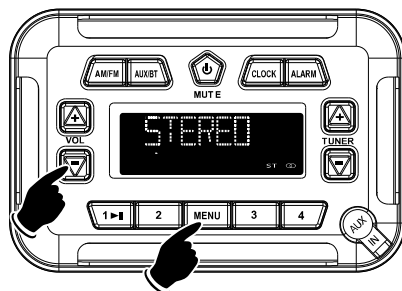
### Stereo/Mono Operation:

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

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

1. To switch from stereo to mono reception press and hold the **MENU** button until "STEREO" appears in the display.
2. Press either the **VOL+** or **VOL-** button and "MONO" will appear in the display. Pressing again will toggle back to "STEREO".

Note: After 5 seconds of inactivity the unit will leave feature programming.

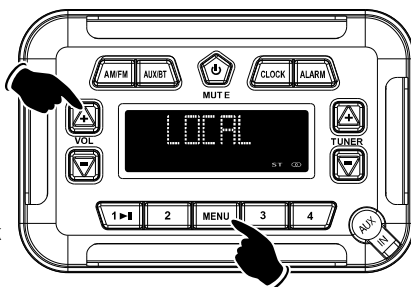


### Distance/Local Reception Operation:

To eliminate weaker fringe stations when scanning for stations, change the radio reception from Distance ("DX") to Local ("LOCAL")

1. To switch from distance to local reception press and hold the **MENU** button until "STEREO" or "MONO" appears in the display. Then press again until "DX" appears in the display.
2. Press the **VOL+** or **VOL-** button and "LOCAL" will appear in the display. Pressing again will toggle back to "DX".

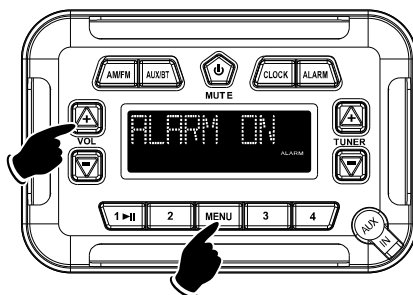
Note: After 5 seconds of inactivity the unit will leave feature programming.



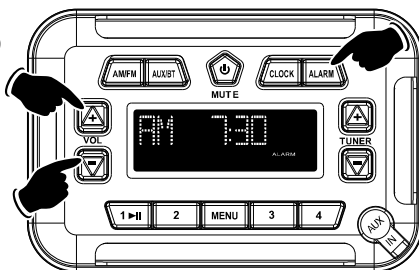
## ALARM Operation

### Setting the Alarm:

1. Press and hold the **MENU** button to enter the 2nd set of programming features. The first displayed feature on the 2nd menu will be either "STEREO or "MONO". Press the **MENU** button again continuously until "ALARM OFF" is displayed. Press the **VOL+** or **VOL-** button to toggle to "ALARM ON".



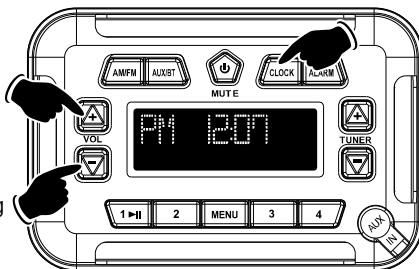
2. Press the **ALARM** button to display the time.
3. Press and hold the **ALARM** button again until the displayed time begins to blink. Press the **VOL+** button to adjust to the desired hour and **VOL-** button to adjust to the desired minutes. After you have set the alarm time, press any button to leave the alarm programming feature or the unit will automatically leave after 8 seconds of inactivity.



## Clock Operation

### Setting the Clock:

1. Press the **CLOCK** button. The time will appear in the display.
2. Press and hold the **CLOCK** button until the time begins blinking in the display.
3. Press the **VOL+** button to adjust the hour and the **VOL-** to adjust the minutes. After you have set the time, press any button to leave the time programming feature or the unit will automatically leave after 8 seconds of inactivity.



# Wiring

