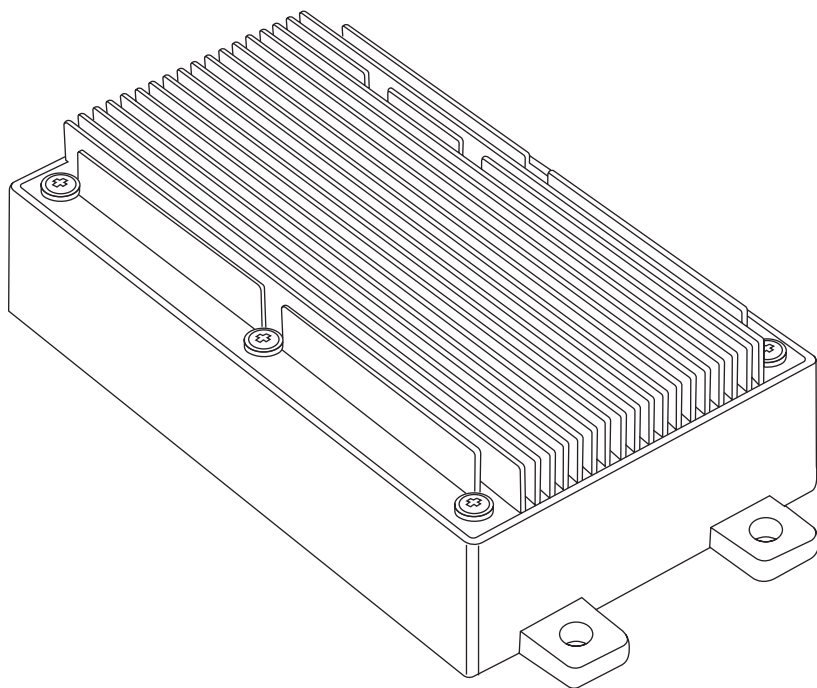




Operation / Installation Manual



Bluetooth AM/FM Blackbox
Entertainment Center
MD-50BB

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.

WARNING!

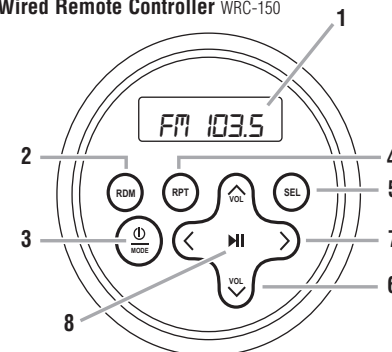
- FCC REGULATIONS STATE THAT ANY UNAUTHORIZED CHANGES OR MODIFICATIONS TO THIS EQUIPMENT MAY VOID THE USER'S AUTHORITY TO OPERATE IT.
- THIS DEVICE IS INTENDED FOR CONTINUOUS OPERATION.
- TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

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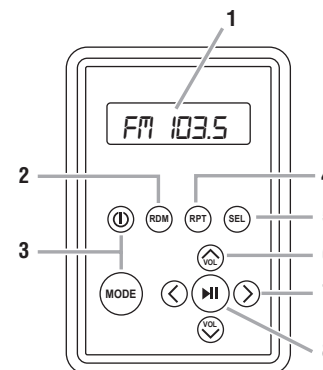
Remote Controls – Button Locations and Functions

Wired Remote Controller WRC-150



Wireless Remote Controller CCR-150

Optional, sold separately from www.magnadynestore.com



Pairing the Wireless Remote Controller:

1. To pair the wireless remote with the MD-50BB press the **Power** button on the remote. "NO LINK" will appear in the display.
2. Press and hold the **MODE** button on the remote.
3. When "PAIR" appears in the display, continue to hold down the **MODE** button and power up the Blackbox Entertainment center.

1. **Display Area:** This area displays mode information, in the radio mode the radio frequency is displayed.
2. **Random Button (RDM):** For random playback in Bluetooth mode. Functionality depends on connected device and selected audio application.

3. Power and Mode Buttons:

Power Button-Wired Remote Control (⏻):

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

Power Button-Wireless Remote Control (⏻):

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

Mode Button (MODE):

Press to select between:

Radio: FM and AM bands.

Bluetooth: Wireless connectivity.

4. **Repeat Button (RPT):** For repeat playback in Bluetooth mode. Functionality depends on connected device and selected audio application.

5. **Select Button (SEL):** Short press to enter and then short presses to toggle between sound adjustments: Bass, Treble, Balance, Fader, DSP Equalizer Presets, Boost and Volume.

Press and hold to enter 2nd menu and then short presses to toggle between Area selection and Stereo/Mono selection.

6. **Volume (⏮ ⏭):** Press to increase or decrease the volume level. Also use up and down volume buttons to make adjustments in **Select Button** sound quality modes.

7. Track Buttons (< >):

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

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

8. Play/Pause Button (▶||):

Radio Mode: Short press to mute the audio.

Bluetooth Mode: Press to pause play back. Press again to resume play.

Note 1: The wireless remote controller's display will disappear after approximately 30 seconds of no button activity to conserve it's 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 it's battery. Press any button on the remote controller to restore the remote's display. Then press the **Power** button to turn on the entertainment center.


General Operations


Power On:

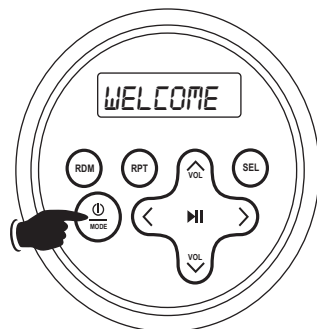
Press the  button to turn the unit on.

Power Off:


Wireless Remote:

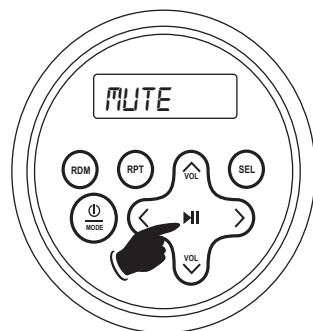
Press the  button to turn the unit off.

Wired Remote: Press and hold the  button for 2 seconds to turn the unit off.



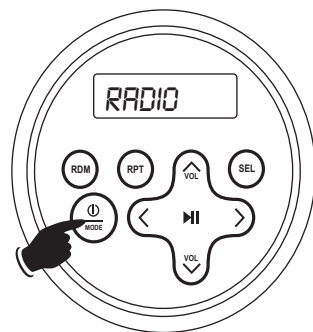
Mute:

A short press of the  button will mute the audio. Press any button to resume the audio.



Selecting a Play Source:


Press the **MODE** button to select either: "RADIO" or "BT AUDIO".

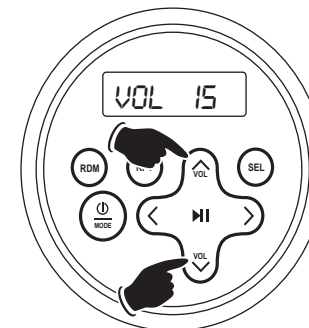


Sound Controls

Volume:

Increase the volume by pressing the  button.

Decrease the volume by pressing the  button.



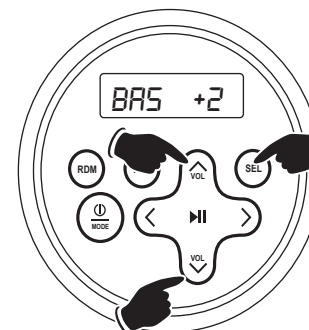
Bass, Treble, Balance, Fader, DSP, Boost and Volume

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

Bass:

Press the **SEL** button. The first sound mode adjustment displayed will be "BAS" (Bass).

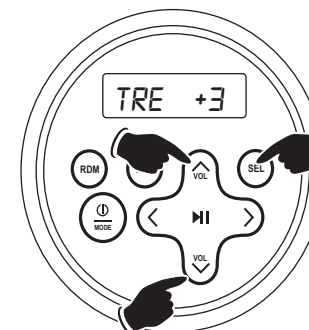
Immediately use the  or  to adjust to desired Bass level -7 to +7.



Treble:

Press the **SEL** button until "TRE" (Treble) appears in the display.

Immediately use the  or  to adjust to desired Treble level -7 to +7.

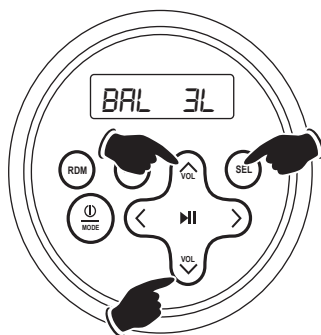


Sound Controls (continued)

Balance:

Press the **SEL** button until “BAL” (Balance) appears in the display.

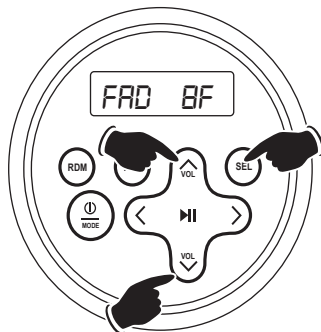
Immediately use the **VOL** or **VOL** to adjust to desired speaker balance - 10L to 0 to 10R. 0 is middle balanced between the Left and Right speakers.



Fader:

Press the **SEL** button until “FAD” (Fader) appears in the display.

Immediately use the **VOL** or **VOL** to adjust to desired Front and Rear speaker balance - 10R to 0 to 10F. 0 is middle balanced between the Rear and Front speakers.

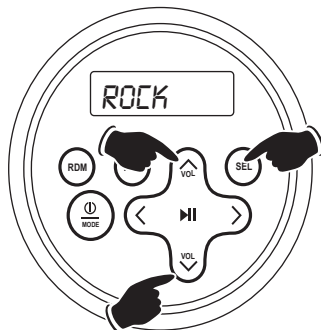


DSP (Preset EQ):

Press the **SEL** button until the “DSP” (Digital Signal Processor - Equalizer) options appears in the display. The Equalizer presets to choose from are: “DSP OFF”, “POP”, “ROCK” or “CLASSIC”.

Immediately use the **VOL** or **VOL** to adjust to desired DSP preset.

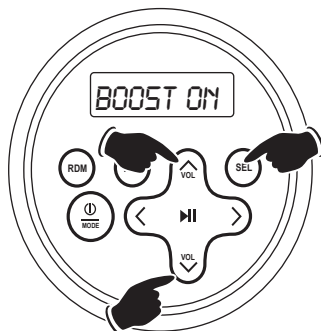
Note: If a DSP preset is enabled, Bass and Treble settings cannot be manually adjusted.



BASS BOOST:

Press the **SET/MENU** until “BOOST ON” or “BOOST OFF” appears in the display.

Immediately use the **VOL** or **VOL** to turn on or off.

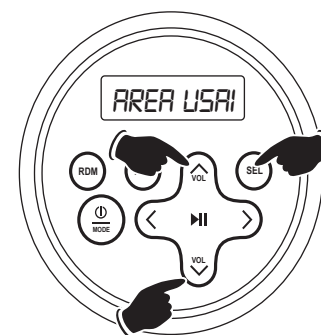


Area and Stereo/Mono Selection

AREA:

To select a radio area location, press and hold the **SEL** button until an “AREA” location appears in the display.

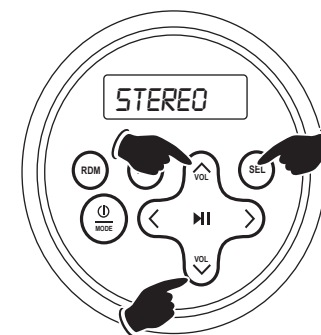
Immediately use the **VOL** or **VOL** buttons to select between “AREA USA1”, “AREA USA2” or “AREA EUR”.



STEREO / MONO:

To select “STEREO” or “MONO” when in FM mode, press and hold the **SEL** button until an “AREA” location appears in the display. Then with another short press either “STEREO” or “MONO” will appear on the display.

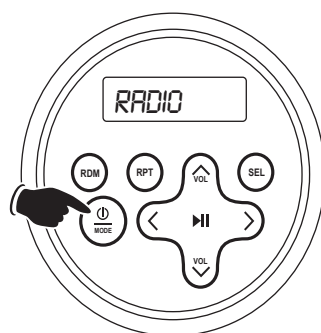
Immediately use the **VOL** or **VOL** buttons to make your selection.



Radio Operations

Selecting the Radio Play Source:

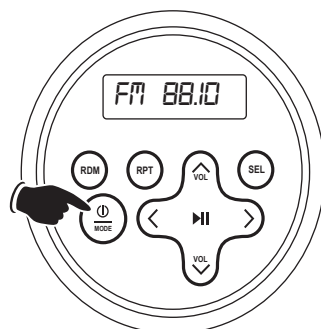
Press the **MODE** button until "RADIO" appears in the display.



Selecting FM or AM:

Press the **MODE** button to select from FM or AM.

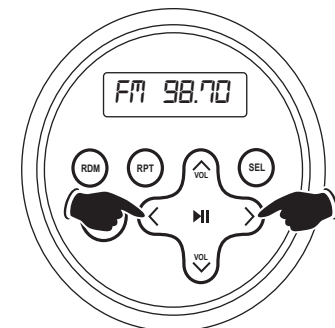
Note: If you are in "BT AUDIO" mode, press the **MODE** button to switch to "RADIO".



Tuning in a Radio Station Using Seek:

Press the **<** button and the radio will scan down to the next strong station and begin playing.

Press the **>** button and the radio will scan up to the next strong station and begin playing.

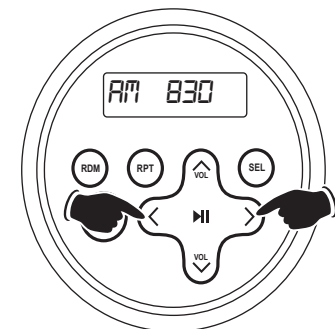


Manually Tuning in a Radio Station:

Press and hold either the **<** or **>** button and "MANUAL" will appear on the display screen.

Press either button to tune to desired higher or lower frequency stations. Holding either button down when in "MANUAL" mode will move the scan quickly.

After 5 seconds of inactivity, the radio tuner will move out of the "MANUAL" mode and back into the default seek mode.

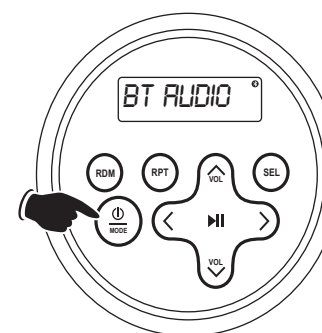


Bluetooth Operations

Pairing Bluetooth Devices:

1. With the MD-50BB powered, activate Bluetooth from your mobile device and select "AquaVibe-MD-50BB" which will if range automatically appear in your devices list of Bluetooth devices.
2. When the mobile device has been paired and an audio application is active on your mobile device, audio can be heard through the speakers.

Note: A previously paired Bluetooth mobile device will automatically connect to the MD-50BB (If it is within range).



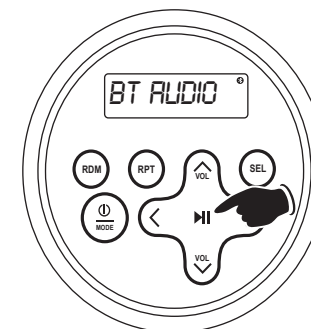
Bluetooth Operation:

Select BT AUDIO: Press the **MODE** button to select "BT AUDIO".

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

RDM & RPT: Press the **RDM** button for random track playback. Press the **RPT** button for repeat track function.

Note: Available functions are dependent upon the specific Bluetooth audio device and the device's active audio application.



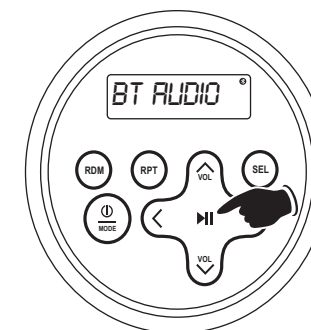
Changing the Track:

Press the **>** button to select a higher track.
Press the **<** button to select a lower track.

Tone and Volume Controls:

Use the sound controls (page 5-6) to adjust the overall tone of the music being played. Use the **⬆** and **⬇** buttons to adjust the sound output level.

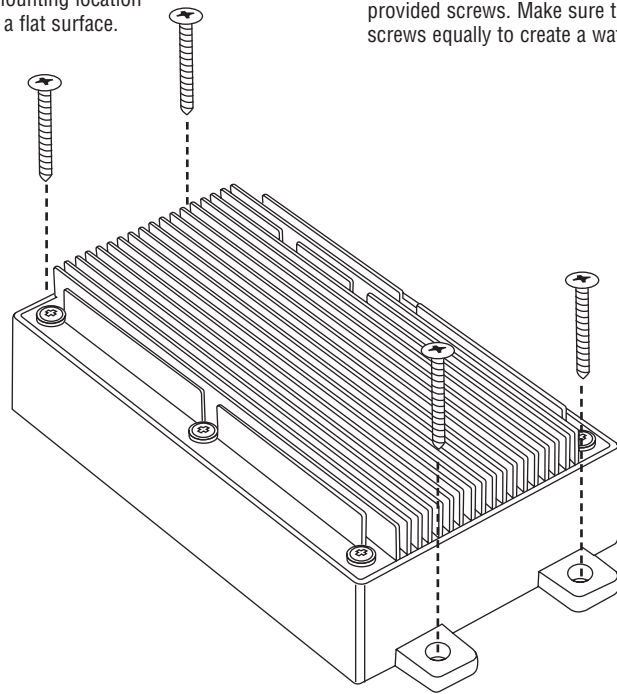
Note: For maximum sound output, the media device volume must be set at 100%. Due to factors beyond the amplifier's control, maximum audio output may be lower than desired due to music bit rate, music recording level, differences in the music device's Bluetooth module output and differences in the output levels of different Bluetooth media devices. This is normal and should not be considered a defect.



Installation

1. Use the unit to determine the best mounting location and to mark screw holes.

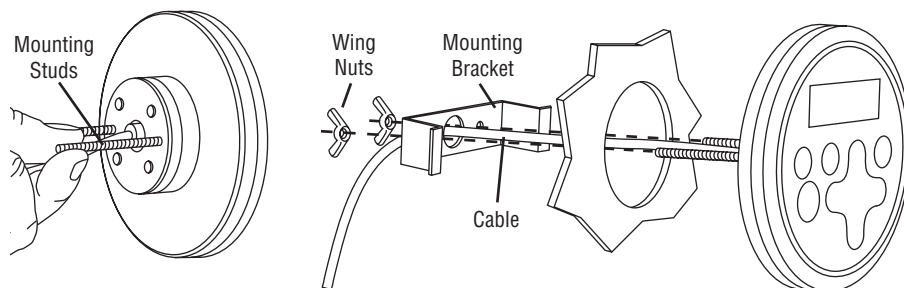
Note: The mounting location needs to be a flat surface.



2. 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.

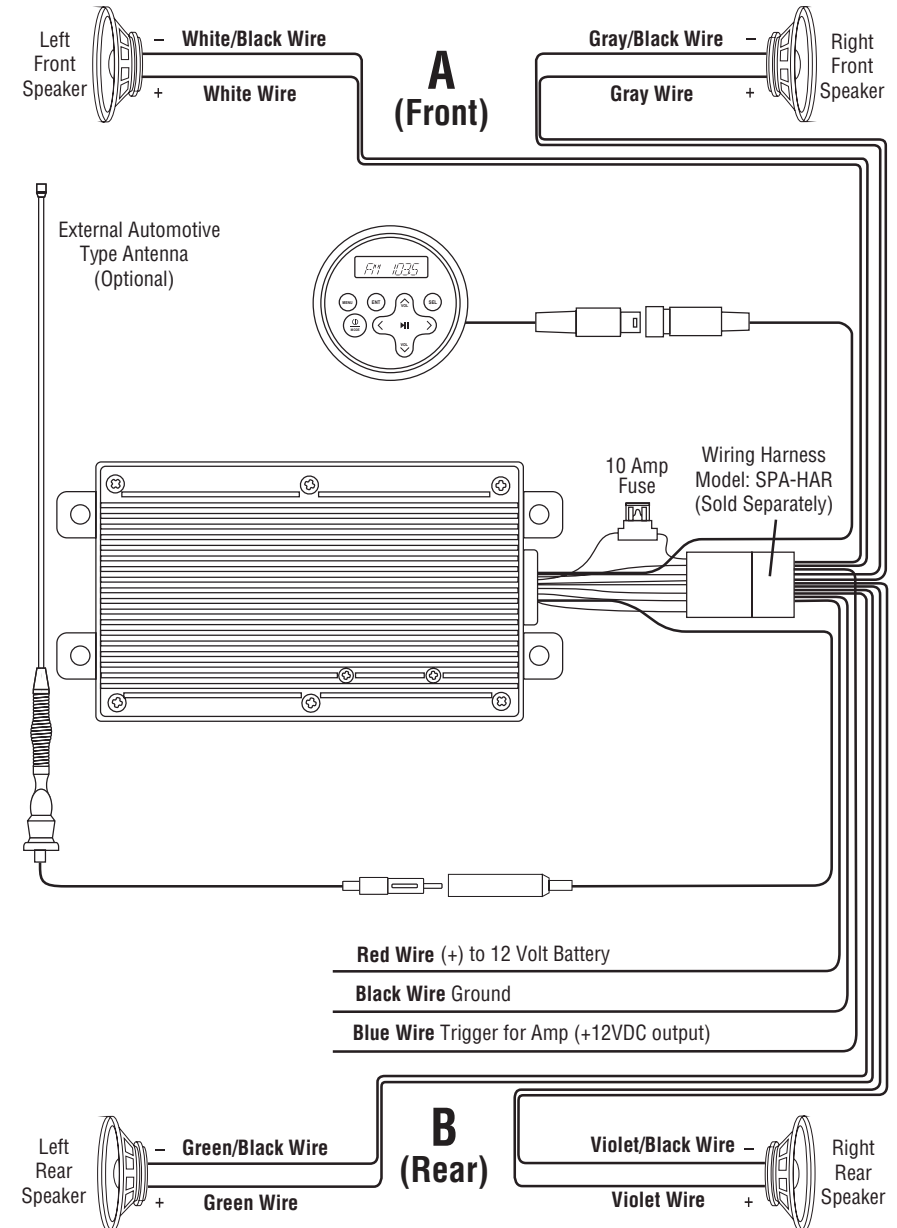
Installing Wired Remote (Optional)

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



Warranty

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 re installation 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.