OWNER'S MANUAL

MediaMaster® 100s BE

*Thank you for purchasing a JL Audio MediaMaster®
Source Unit for your sound system.*

*This product has been designed and manufactured to exacting
standards in order to deliver years of musical enjoyment. For maximum
performance, we highly recommend that you have your MM100s-BE
installed by an authorized JL Audio dealer. Your authorized dealer has
the training, expertise and installation equipment to ensure optimum
performance from this product. Due to the complexity of modern
vehicle systems, we do not recommend self-installation unless you have
extensive experience in automotive and marine electrical systems.
Should you decide to install this product yourself, please take the time to
read this manual thoroughly to familiarize yourself with its installation
requirements and setup procedures.*

*If you have any questions regarding the instructions in this manual or
any aspect of the product's operation, please contact your authorized
JL Audio dealer for assistance. If you need further assistance, please contact
the JL Audio Technical Support Department at technical@jlaudio.com
or call (954) 443–1100 during business hours.*

Protect Your Hearing!

We value you as a long-term customer. For that reason, we urge you to practice restraint in the operation of this product so as to not damage your hearing and that of others in your vehicle. Studies have shown that continuous exposure to high sound pressure level can lead to permanent (irreparable) hearing loss. Mobile sound systems are capable of producing such high sound pressure levels. Please limit your continuous exposure at high volumes. While driving, operate your audio system in a manner that still allows you to hear necessary noises to operate your vehicle/vessel safely (horns, sirens, etc.).

FCC Compliance Statement

This equipment has been tested and found to comply with the limits of 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 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, 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 separation between the equipment and the receiver.
- Connect the equipment to 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.

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

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Safety Considerations

- Install this product in a dry, well-ventilated location that does not interfere with your factory-installed systems. If a dry environment is not available, a location that is not exposed to heavy splashing may be used.
- While this product is designed to be water-resistant, it should never be submerged under water or subjected to high-pressure water spray.
- Do not mount this product in an engine compartment or areas of extreme heat. Areas exposed to a heater or hot air should also be avoided.
- Securely mount this product so that it does not come loose in the event of a collision, sudden jolt or as a result of repeated vibrations during normal use.
- Check before drilling to make sure that you will not be drilling into an exterior panel/hull, fuel tank, gas/brake line, wiring harness or other vital system.
- Do not run system wiring outside or underneath the vehicle/vessel. This is an extremely dangerous practice, which can result in severe damage/injury.
- Protect all system wires from sharp edges and wear by carefully routing them, tying them down and using grommets and loom where appropriate. Secure all wiring using cable ties or wire clamps, as needed.
- Do not replace the power wire fuse with one of a different value. Never bypass the fuse.
- Never make power connections with a "live" wire. Failure to make safe, tight, high-integrity connections can result in fire and extensive damage.

Installation Applications

This product is designed for operation with 12 volt, negative-ground electrical systems. Using this product in systems with positive ground and/or voltages other than 12 volts may result in damage to the product and will void the warranty. This product is not certified or approved for use in aircraft.

What's Included

- (1) MediaMaster® MM100s-BE Source Unit
- (1) Power Connections Wire Harness
- (1) Mounting gasket
- (1) Mounting template
- (4) Mounting screws
- (1) Protective Sun Cover
- (1) User manual

Product Description

The MediaMaster® MM100s-BE is a weather-resistant source unit designed for marine and powersports applications.

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The MM100s-BE includes the following features:

- Water-resistant chassis and display (IP66 rated) is built to withstand the elements
- Easy-to-read, high-brightness, 3.5-inch full-color LCD display with large controls for marine/powersports applications
- Separate day/night lighting modes with user-defined display brightness, button brightness, remote brightness and display themes
- Intuitive interface with large text for easy legibility while in motion
- Digital AM/FM tuner with NOAA weather band capability
- RDS (Radio Data System) displays extended FM program info, where available
- SiriusXM-Ready™ (tuner, antenna and subscription sold separately)
- Quick access to 18 of your favorite channels, programmable across all bands
- USB direct-digital connection accesses music files on your USB storage device or iPhone® (see page 12-13)
- Bluetooth® v2.1 with Qualcomm® aptX™ audio; receives top-quality sound from compatible devices with playback control, up to 35 ft. (11 m) away
- 1A USB output conveniently charges your phone or portable music player
- 4 Sets of 4V RMS line-level outputs deliver crystal-clear audio signals to your amplifiers
- Auxiliary inputs accept audio signals from any source with line-level outputs
- Zero-clipping audio circuit design, with self-limiting tone controls to prevent speaker system damage
- NMEA 2000® Certified - MFD (Multi-Function Display) control functionality via existing vessel networks (Refer to MFD manufacturer for device compatibility info.)
- User customizable naming for display on Bluetooth® devices and MFDs

- Configurable Master Control over 4 separate audio zones, with independent feature/control options, including:
  Level Control Mode options for on-the-fly volume adjustments of all zones, together or individually. Each zone can be independently configured as:
  - **Relative:** Links the volume levels of Zones 2, 3 and/or 4 with the level of Zone 1. Linked zones will proportionally track (follow) Zone 1's volume. The offset level of volume for each zone is independently adjustable, allowing you to create a customized level controller, specific to a vessel's layout and audio system design.
  - **Absolute:** Creates an independent level control for selected zones, each with its own separate volume level slider.
  - **Fixed:** Sets the output level of selected zones at a specific output voltage (4V, 2V or 1V RMS) that is not affected by the volume control.
  - **Off:** Disables the output level of selected zones.
  Tone Control Mode options allow customization of each zone's treble, midrange, bass and balance settings. Each zone can be configured as:
  - **Same as Main Zone:** Links the controls of Zones 2, 3 and/or 4 with Zone 1.
  - **Independent Tone Control** maintains separate controls for selected zones.
  - **Volume Limit** allows you to set a custom, maximum allowable volume level for each zone.
  - **Rename Zone** permits the creation of custom names for each zone, or choose from a list of preset location names.
- Three remote controller options available: (each sold separately)
  - MMR-10W Wireless, Waterproof Remote Controller (key-fob style)
  - MMR-20-BE Wired Remote Controller
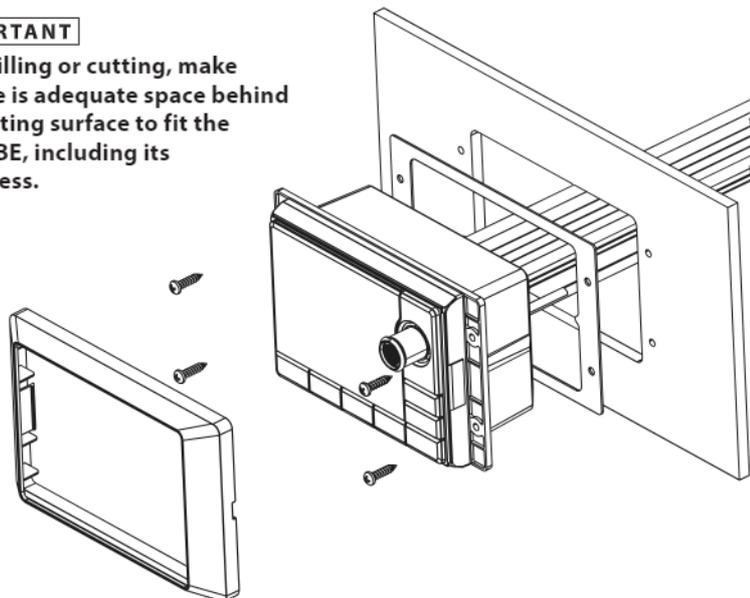 - MMR-40 Full-Function NMEA 2000® Network Controller with LCD display
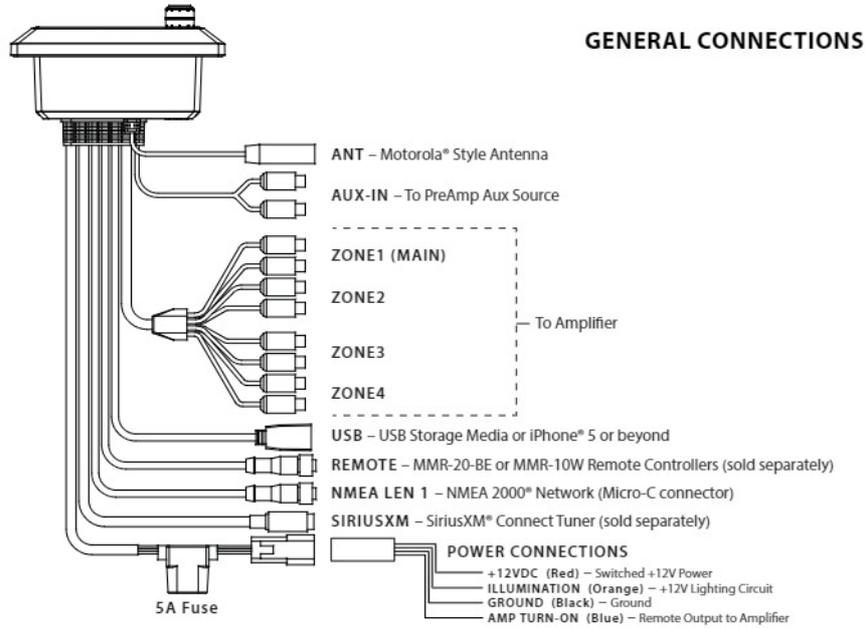
4

MOUNTING AND INSTALLATION

The diagram below shows a typical mounting procedure into a fiberglass panel. **Always follow proper safety procedures. Wear eye-protection at all times with a dust mask and gloves when cutting.** A mounting template is included to aid in measuring and marking the mounting surface before cutting or drilling.

1. Press along the perforation to remove the center section of the mounting template. (Discard the center section.) The template can be used to verify there is sufficient flat surface area for mounting and as a guide for cutting the opening. Tape the template to the mounting location and mark the surface for cutting the opening and drilling pilot holes.

2. Use a jigsaw or rotary tool to cut an opening in the mounting surface. If necessary, use a file or sandpaper to adjust the opening for proper fitment and smooth the edges.

3. Place the MM100s-BE into the opening and check that the mounting holes remain aligned with the pilot hole marks taken from the template. If not, adjust and mark new holes as necessary.

4. Remove the MM100s-BE and drill four (4) pilot holes in the mounting surface at the pilot hole marks.

5. Peel the adhesive backing from the mounting gasket and affix to the rear of the bezel. Connect all wiring and place the MM100s-BE into the opening.

6. Secure the MM100s-BE using the four (4) stainless steel screws. Press the trim ring onto the front of the MM100s-BE.

! IMPORTANT

Before drilling or cutting, make sure there is adequate space behind the mounting surface to fit the MM100s-BE, including its wire harness.

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GENERAL CONNECTIONS

ANT – Motorola® Style Antenna

AUX-IN – To PreAmp Aux Source

ZONE1 (MAIN)

ZONE2

— To Amplifier

ZONE3

ZONE4

USB – USB Storage Media or iPhone® 5 or beyond

REMOTE – MMR-20-BE or MMR-10W Remote Controllers (sold separately)

NMEA LEN 1 – NMEA 2000® Network (Micro-C connector)

SIRIUSXM – SiriusXM® Connect Tuner (sold separately)

POWER CONNECTIONS
+12VDC (Red) – Switched +12V Power
ILLUMINATION (Orange) – +12V Lighting Circuit
GROUND (Black) – Ground
AMP TURN-ON (Blue) – Remote Output to Amplifier

5A Fuse

POWER CONNECTIONS

The 4-pin plug with wire leads is used to make power related connections. Make sure to carefully plan the wiring of your system prior to routing wires and making connections. Refer to the table below when making power connections.

! IMPORTANT

Disconnect the NEGATIVE battery post connection and secure the disconnected cable to prevent accidental reconnection. This is an essential safety precaution during installation!

Label	Wire Color	Connection
+12VDC	Red	Connect to a switched positive (+12V) source. This can be an ignition controlled, accessory circuit or a vessel battery equipped with a main disconnect switch. For added control functionality, we also recommend installing a dedicated toggle switch (not included) at this wire lead's +12V connection point. **Always install an appropriate fuse within 18 inches (45 cm) of the +12V connection.** If this is the only device using the connection point, use a 5 amp fuse.
GROUND	Black	Connect to a clean metal chassis ground, if available. If no metal chassis ground is available, it may be necessary to connect this to the NEGATIVE battery post. **All ground connections (source unit and amplifiers) should be made at the same location to minimize noise.**
ILLUMINATION	Orange	Connect to a +12V lighting circuit to automatically switch the illumination to night mode when the lights are activated.
AMP TURN-ON	Blue	This wire provides a positive (+12V) turn-on voltage to activate aftermarket amplifiers.

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WIRING HARNESS CONNECTIONS

Harnesses exiting the rear of the unit are used to connect to aftermarket amplifiers/ equipment and media devices. Depending on your specific equipment, you may or may not use all of the connections. **Make sure to plan the layout of your system prior to routing wires and making connections.** Refer to the table below for additional info.

Label	Description	Connection	
ZONE1 (MAIN)	Black RCA	Left Channel Signal Output / Zone 1	See **Audio Zone Setup** on pages 18-19 for configurable settings
	Red RCA	Right Channel Signal Output / Zone 1	
ZONE2	Black RCA	Left Channel Signal Output / Zone 2	
	Red RCA	Right Channel Signal Output / Zone 2	
ZONE3	Black RCA	Left Channel Signal Output / Zone 3	
	Red RCA	Right Channel Signal Output / Zone 3	
ZONE4	Black RCA	Left Channel Signal Output / Zone 4	
	Red RCA	Right Channel Signal Output / Zone 4	
AUX-IN	Black RCA	Left Channel Signal Input / Auxiliary	2V or 1V RMS Input Sensitivity
	Red RCA	Right Channel Signal Input / Auxiliary	
SiriusXM	10-pin Connector	Connect to SiriusXM® tuner (sold separately)	
ANT	Antenna	Connect to Motorola style antenna	
USB	USB Connector	Connect to USB storage device or iPhone® (see pages 12-13 for info)	
REMOTE	5-pin Threaded Connector	Connect to MMR-20-BE (wired) or MMR-10W (wireless) remote controllers (each sold separately)	
NMEA LEN 1	5-pin NMEA 2K Micro-C Connector	Connect to MMR-40 Network Controller or NMEA 2000® network (requires NMEA 2000® cables, connectors, etc. (sold separately)	

GENERAL CONTROLS

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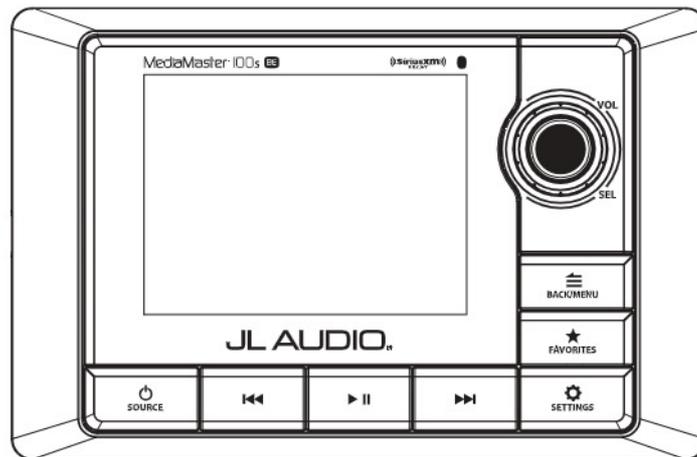
GENERAL CONTROL FUNCTIONS

Below is a list of general commands, including many common operations. The functionality of each control will vary depending on the current source and menu selected.

⏻ SOURCE	Source/ Power	Use this button to turn ON or OFF and to access the source selection menu. • Press to turn the unit ON • Press to display the **SOURCE: Select** menu • Press and hold to turn the unit OFF
VOL SEL	Volume/ Select	Use this knob as a Master Volume Control and for menu navigation/selection. • Rotate to adjust volume • Rotate to scroll thru menu options • Press to choose/enter (menu options) • Rotate/press to access/adjust the **Audio Zone Levels** menu screen (see pages 18-19 for more info)
≜ BACK/MENU	Back/ Menu	Use this button to go back/return and to access the menu options. • Press to go back or return to the Now Playing Screen (AM/FM/WB/AUX) • Press to access main menu options (SiriusXM®/USB/Bluetooth®)
★ FAVORITES	Favorites	Use this button to save, view or edit preset channels (up to 18). • Press and hold to store a channel (AM/FM/WB/SiriusXM®) as a preset (star will turn solid) • Press to view your list of stored presets and the **Favorites Edit: Select** menu.
⚙ SETTINGS	Settings	Use this button to access the main system setting menus and audio settings. • Press and hold to access the **System Settings: Main Menu** • Press to access the **Audio Zone Tone & Balance** menu • From a highlighted zone in the **Audio Zone Levels** menu, press (and repeat) to change the **Level Control Mode** (Relative, Absolute, Off).
▶▶❙	Forward	Use this button to make a forward selection. **Press to:** • Tune in the next frequency (AM/FM/WB) or channel (SiriusXM®) • Select the next track (USB/Bluetooth®) **Press and hold to:** • Seek to the next channel (FM/WB) • Skip forward ten frequency steps (AM) • Enter **Channel Browse** mode (SiriusXM®). • Fast-forward (USB)
❙◀◀	Backward	Use this button to make a backward selection. **Press to:** • Tune in the previous frequency (AM/FM/WB) or channel (SiriusXM®) • Select the previous track (USB/Bluetooth®) **Press and hold to:** • Seek to the previous channel (FM/WB) • Skip backward ten frequency steps (AM) • Enter **Channel Browse** mode (SiriusXM®). • Fast-rewind (USB)
▶❙❙	Mute/ Pause/ Resume/	Use this button to pause/resume/mute audio and to access USB play options. • Press to mute audio (AM/FM/WB/SiriusXM®/AUX) • Press to pause or resume the current selection (USB/Bluetooth®) • When the **Audio Zone Levels** screen is displayed, press to mute all audio (AM/FM/WB/ SiriusXM®/AUX/USB/ Bluetooth®) • Press and hold to access the **USB: Play Options** menu (USB)

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Turning the Unit ON / OFF

1. Press **SOURCE** to turn the unit ON.
2. Press and hold **SOURCE** to turn the unit OFF.

Selecting a Source

1. Press **SOURCE** to access the SOURCE: Select menu.
2. Rotate **VOL/SEL** to highlight a desired source; press to select.

Adjusting Volume

The **VOL/SEL** knob is designed to be used as a master volume controller, allowing easy adjustment of the audio levels, for all zones simultaneously or for each zone independently. Refer to **Audio Zone Setup** on pages 18-19 for more info.

1. Rotate **VOL/SEL** clockwise/counter-clockwise to increase/decrease volume (this also displays the **Audio Zone Levels** screen).

Muting or Pausing Audio

1. Press ▶ **II** to mute/unmute audio (AM/FM/WB/SiriusXM®) or pause/resume the current selection (USB/Bluetooth®).
2. When the **Audio Zone Levels** screen is displayed, you can mute the audio by Pressing the ▶ **II** button or by pressing and holding the **VOL/SEL**.

Tuner Operation

Tuning selections (AM/FM/WB/SiriusXM®) can be made with the following controls:

▶▶I	Forward	**Press to:** • Tune in the next frequency (AM/FM/WB) or channel (SiriusXM®) **Press and hold to:** • Seek to the next channel (FM/WB) • Skip forward ten frequency steps (AM) • Enter **Channel Browse** mode (SiriusXM®); continue pressing to the desired channel, then press **VOL/SEL** to select
I◀◀	Backward	**Press to:** • Tune in the previous frequency (AM/FM/WB) or channel (SiriusXM®) **Press and hold to:** • Seek to the previous channel (FM/WB) • Skip backward ten frequency steps (AM) • Enter **Channel Browse** mode (SiriusXM®); continue pressing to the desired channel, then press **VOL/SEL** to select

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Favorites

You may store up to 18 of your preferred stations or channels from your available tuner options (AM/FM/WB/SiriusXM®) as a preset for quick tuning access.

Storing a Favorite

1. While listening to a desired channel (AM/FM/WB/SiriusXM®), press and hold
   ★ FAVORITES until the star icon turns solid.

Tuning to a Favorite

1. Press ★ FAVORITES to viewed stored presets.
2. Rotate **VOL/SEL** to highlight a desired preset; press to select.

Moving or Deleting a Favorite

1. Press ★ FAVORITES to viewed stored presets.
2. Rotate **VOL/SEL** clockwise to the **Favorites Edit: Select menu** and highlight a desired function; press to select.
3. Use **VOL/SEL** to select the preset to be moved or deleted.

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Bluetooth® Audio

You may wirelessly stream audio from a Bluetooth® compatible device from up to 35 ft. away (11 m). Up to 8 devices can be paired to the MM100s-BE, but only one streaming device can connect at one time.

Pairing a new device:

1. Press **SOURCE** on the MM100s-BE to access the **SOURCE: Select** menu.
2. Rotate **VOL/SEL** to highlight **Bluetooth®** and press to select/enter **Pairing Mode**.
3. Enable Bluetooth® on your streaming device and scan for nearby devices; select MM100s (or your custom name) from your list of available devices to connect.

Once connected, you may control your audio selections with the MM100s-BE using the controls below or directly from your device:

▶▶❘	Forward	• Press to select the next track
❘◀◀	Backward	• Press to select the previous track
▶ ❙❙	Mute/Pause/ Resume	• Press to pause or resume playing the current selection • When the **Audio Zone Levels** screen is displayed, press to mute audio

Pairing additional devices:

1. Press **SOURCE** on the MM100s-BE to access the **SOURCE: Select** menu.
2. Rotate **VOL/SEL** to highlight **Bluetooth®** and press to access the **Bluetooth: Connect Paired Device** menu.
3. Rotate **VOL/SEL** to highlight **Connect New Device**; press to enter Pairing Mode.
4. Enable Bluetooth® on your streaming device and scan for nearby devices; select MM100s (or your custom name) from your list of available devices to connect.

Managing Blueooth® Devices:

You may manage paired devices or add new devices from the **Bluetooth: Main Menu**. To access the **Bluetooth: Main Menu**, press **BACK/MENU** while in Bluetooth® mode; then use **VOL/SEL** to make your selections.

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Connecting USB Devices

The USB port may be used to connect USB storage class devices (thumb drive, digital audio player, etc.). This USB connection also provides a 1A output for device charging. If this output is exceeded, an error message will display and the output will be disabled. Devices may be plugged directly into the USB port or use the JL Audio Combo 3.5 mm Audio Jack and 9 Wire USB Port for Panel-Mounting (XMD-USB/3.5MM-PNL). An appropriate USB cable for your device is required to make this input connection.

Once connected, press the **SOURCE** button and select **USB** from the **SOURCE: Select** menu to access the connected device with the following controls:

▶▶▌	Forward	• Press to select the next track • Press and hold to fast-forward
▌◀◀	Backward	• Press to select the previous track • Press and hold to fast-rewind
▶ ❚❚	Mute/Pause/Resume	• Press to pause or resume playing the current selection • Press and hold to access Shuffle and Repeat options from the **USB: Play Options** menu • When the **Audio Zone Levels** screen is displayed, press to mute audio. You may also press and hold **VOL/SEL** to mute audio.
⏏ BACK/MENU	Back/Menu	• Press to access the **USB: Main Menu** options • Press to go back or return to the Now Playing Screen

❗ IMPORTANT

• Properly secure the connected device before driving to prevent damage from dropping or sudden acceleration/braking.
• Control, functionality and display may vary depending on the type of device connected.
• Connections to computers or portable hard drives are not supported.
• Connections via USB hubs are not supported.

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Connecting an iPhone®
An iPhone® may be connected to the USB port using an appropriate Lightning to USB cable (not included).

Once connected, press the **SOURCE** button and select **USB** from the **SOURCE: Select** menu to access the connected device with the following controls:

▶▶	Forward	• Press to select the next track • Press and hold to fast-forward
◀◀	Backward	• Press to select the previous track • Press and hold to fast-rewind
▶ ❚❚	Mute/Pause/ Resume	• Press to pause or resume playing the current selection • Press and hold to access Shuffle and Repeat options from the **USB: Play Options** menu • When the **Audio Zone Levels** screen is displayed, press to mute audio. You may also press and hold **VOL/SEL** to mute audio.
VOL SEL	Volume/ Select	• When the **Audio Zone Levels** screen is displayed, press and hold to mute audio
≛ BACK/MENU	Back/Menu	• Press to access the **USB: Main Menu** options • Press to go back or return to the Now Playing Screen
Apple compatibility: iPhone® 5 or beyond (functionality contingent upon compatible iOS release)		

! IMPORTANT

• Properly secure the connected device before driving to prevent damage from dropping or sudden acceleration/braking.
• Control, functionality and display may vary depending on the model and version of iPhone® connected.
• When connected via the USB port, make sure to unpair or disable the Bluetooth® connection to avoid possible playback conflicts.
• If you experience abnormal performance during operation, disconnect the iPhone® and check its condition. Restart your iPhone® if performance does not improve.

• "Made for iPhone" means that an electronic accessory has been designed to connect specifically to an iPhone® and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with an iPhone® may affect wireless performance.
• iPhone®, Lightning and all related marks and logos are trademarks of Apple Inc., registered in the U.S. and other countries.

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SiriusXM® Satellite Radio

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® Connect Tuner, antenna and subscription are required. For more information, visit www.siriusxm.com.

Activating Your SiriusXM® Subscription

After installing your SiriusXM® Connect tuner and antenna, power ON your MM100s-BE and select SiriusXM® as a source. You should be able to hear the SiriusXM® Preview channel on Channel 1. If you cannot hear the preview channel, please review the installation instructions to make sure your SiriusXM® Connect Tuner is properly installed.

After you can hear the Preview channel, tune to Channel 0 to find the Radio ID of your tuner. In addition, the Radio ID is located on the bottom of the SiriusXM® Connect Tuner and its packaging. You will need this number to activate your subscription. Write this number down for reference.

Note: the SiriusXM® Radio ID does not include the letters I, O, S or F.

Activate your SiriusXM® service online or by phone

For US Subscriptions:
• Visit www.siriusxm.com/activatenow
• Call SiriusXM® Listener Care
  at 1-866-635-2349

For Canadian Subscriptions:
• Visit www.siriusxm.ca/activatexm
• Call SiriusXM® Listener Care
  at 1-877-438-9677

As part of the activation process, the SiriusXM® satellites will send an activation message to your tuner. When your radio detects that the tuner has received the activation message, your radio will display: "Subscription Updated". Once subscribed, you can tune to channels in your subscription plan.

Note: The activation process usually takes 10 to 15 minutes, but may take up to an hour. Your radio will need to be powered ON and receiving the SiriusXM® signal to receive the activation message.

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Listening to SiriusXM®

1. Press **SOURCE** and turn **VOL/SEL** to select SiriusXM.
2. Press **VOL/SEL** to begin listening to SiriusXM.

Channel Selection

1. Press ▶▶I or I◀◀ to select the next or previous channel.

Channel Browse

Channel Browse allows you to preview other channels without leaving your current channel.

1. Press and hold ▶▶I or I◀◀ to enter **Channel Browse** mode.
2. Press ▶▶I or I◀◀ to view what is playing on other channels. Hold ▶▶I or I◀◀ down to rapidly scroll through your available channels.
3. Press **VOL/SEL** to tune to the selected channel.

SiriusXM® Main Menu

The SiriusXM® Main Menu allows access to the following menu options:

Browse by Channel – Lists your available channels.
Browse by Category – Lists your available channels by categories.
My Account info – Lists your account status, Radio ID and Reset menu.
Parental Controls – Allows you to restrict channels containing mature content.

1. Press **BACK/MENU** to access the SiriusXM®: Main Menu.
2. Turn **VOL/SEL** to scroll through menu options.
3. Press **VOL/SEL** to make selections.

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Parental Controls

Some SiriusXM® channels contain mature content. When the Parental Controls feature is enabled, channels with mature content are restricted and will require a 3-digit lock code to access.

Enabling Parental Controls

1. Press **BACK/MENU** to access the SiriusXM®: Main Menu.
2. Turn **VOL/SEL** to Parental Controls and press to enter.
3. Press **VOL/SEL** to select **Lock Mature Channels**. After, you may designate a 3-digit lock code to lock mature content channels.
4. Use **VOL/SEL** to enter a 3-digit lock code and select **Save** when finished. Make sure to save your 3-digit lock code for future reference.

Changing the Lock Code

1. Press **BACK/MENU** to access the SiriusXM®: Main Menu.
2. Turn **VOL/SEL** to Parental Controls and press to enter.
3. Turn **VOL/SEL** to **Edit Lock Code** and press enter.
4. Use **VOL/SEL** to enter the current 3-digit lock code and select **Enter** when finished.
5. Use **VOL/SEL** to enter the new lock code and select **Enter** to confirm. Make sure to save your 3-digit lock code for future reference.

Resetting SiriusXM® Radio Settings

A reset of the SiriusXM® tuner will erase all presets and settings, including parental controls, restoring all SiriusXM® settings back to their factory defaults.

1. Press **BACK/MENU** to access the SiriusXM®: Main Menu.
2. Turn **VOL/SEL** to My Account and press to enter.
3. Turn **VOL/SEL** to Reset SiriusXM Tuner and press to enter.
4. Use **VOL/SEL** to select **Confirm**.

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System Settings Main Menu

This menu allows access the main operational settings and features of your MM100s-BE. Refer to the table below for available settings and functionality.

1. Press and hold **SETTINGS** to access the System Settings: Main Menu.
2. Turn **VOL/SEL** to highlight one of the menu settings listed in the table below; press to select.
3. Use **VOL/SEL** to make selections.

Setting	Function
Name this Device	Create a custom name to be displayed on connected Bluetooth® devices and NMEA 2000® networks
Audio Zone Setup	Configure settings for each set of audio zone outputs (see pages 18-19 for more info).
AUX Input Sensitivity	Configure the AUX input sensitivity: 2V or 1V RMS (default)
Diagnostic	Displays serial number, hardware and software version info
Display	Configures display and brightness settings
Low Voltage Alert	Notifies of low supply voltage conditions (see below for more info)
Scrolling Text	Enables continuous scrolling of available RDS/track text info
Tuner Region	Configures AM/FM tuner range/scale for a specific region

Low Voltage Alert

This built-in alert notifies when the +12VDC supply voltage drops below 10 volts. If triggered, the unit will enter Safe Mode and mute the audio output. A warning will also display on-screen with instructions to turn the unit off until normal operating voltage is restored.

1. Press and hold **SETTINGS** to access the System Settings: Main Menu.
2. Turn **VOL/SEL** to Low Voltage Alert and press to enter.
3. Turn **VOL/SEL** to select ON or OFF and press to enter.

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Audio Zone Setup

The MM100s-BE is equipped with four sets of low-voltage, line-level RCA outputs to send audio signals to your aftermarket amplifiers/equipment. Each output pair delivers full-range, low-distortion audio, arranged into four zones. Depending on your equipment and vessel, this will allow you to group speakers of an area together for flexibility and control of audio levels at separate zones. For example, you may prefer to reduce the listening level in an interior cabin, while keeping a louder audio level on the main deck.

Access the **Audio Zone Setup** menu to configure the functionality of each zone.

1. Press and hold **SETTINGS** to access the System Settings: Main Menu.
2. Press **VOL/SEL** to select Audio Zone Setup.
3. Use **VOL/SEL** to make selections.

Refer to the table below and the following page for each zone's available settings and functionality.

Zone	Menu	Setting 1	Setting 2
Z1: Zone 1 Z2: Zone 2 Z3: Zone 3 Z4: Zone 4	Level Control Mode	Relative	
		Absolute	
		Fixed	4V RMS Max (default) 2V RMS Max 1V RMS Max
		Off	
	Rename Zone	Bow, Bridge, Cabin, Cockpit, Galley, Helm, Stateroom 1, Stateroom 2, Tower, Transom, Sub 1, Sub 2	
		Custom Name	Alphanumeric Input
		Factory Default	
	Volume Limit	Max Vol Limit	
Z2: Zone 2 Z3: Zone 3 Z4: Zone 4	Tone Control Mode	Same as Main Zone	
		Independent Tone Control	

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Level Control Mode

This setting configures the behavior and control of each zone. Available control options are:

Relative: Use this setting to link the output levels of Zones 2, 3 or 4 with the level of Zone 1. When selected, Zone 2, Zone 3 or Zone 4's volume level will proportionally track (follow) the volume of Zone 1. The offset level of volume between each zone is easily adjustable from the **Audio Zone Levels** screen, allowing you to create a customized level controller, specific for your vessel's layout and audio system design.

Absolute: When chosen, the output level of the selected zone will be independent, with its own separate volume level slider, accessible from the **Audio Zone Levels** screen.

Fixed: When chosen, the output level of the selected zone will be fixed, limited to a specific output voltage (not affected by the volume control). The output voltage of Fixed zones can be set to 4V (default), 2V or 1V RMS.

Off: This setting will disable the output level of the selected zone.

Note: The Level Control Mode of any zone can be quickly changed from the **Audio Zone Levels** menu. Press **VOL/SEL** to highlight a zone, then press (and repeat) **SETTINGS** to change the Level Control Mode.

Rename Zone: This feature lets you assign a custom name for each zone or select from a preset list of vessel location names.

Volume Limit: This feature allows you to set a fixed, maximum allowable volume limit for each zone.

Tone Control Mode

This setting allows you to configure how the tone and balance controls of Zones 2, 3 and 4 are managed. Two control options are available:

Same as Main Zone: The tone controls are linked to and controlled by Zone 1.

Independent Tone Control: The tone controls are separate with independent adjustments that can be accessed from the **Audio Zone Tone & Balance** menu.

To access the **Audio Zone Tone & Balance** menu, press **SETTINGS** from any Now Playing Screen. Use **VOL/SEL** to highlight a zone, then press to access its tone controls; use **VOL/SEL** to make adjustments. The tone controls of any zone with a 🔗 (chain link icon) will be linked to and controlled by Zone 1.

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Optional Remote Controllers

Two contol options are available for your MediaMaster® (each sold separately) using the **REMOTE** connection. Each connnect directly using MediaMaster® controller cables and splitters (sold separately). Refer to the supplied Owner's Manual for specific installation and operations instructions.

MMR-20-BE Wired Remote Controller

Adds water-resistant (IP67 rated) control functionality from auxiliary locations, such as separate audio zone locations positioned throughout a vessel. Up to three MMR-20-BE remotes may be connected to a single MediaMaster® at a maximum distance of 75 ft. Remotes connect directly using MediaMaster® controller cables and splitters (sold separately).


MMR-10W Wireless Remote Controller

Adds handheld, long-range control from up to 150 ft. (45m) away. Floating, key fob style transmitter is water resistant (IP67 rated) and designed to go wherever the action is, on or in the water. Additional transmitters (up to ten) can be programmed to the hideaway receiver module. Includes a versatile mounting cradle and lanyard for convenient, on-the-go functionality.

Optional NMEA 2000® Control Options

The MM100s-BE is equipped with a NMEA 2000® connector (Micro-C) to interface directly with NMEA 2000® networks or the MMR-40 NMEA 2000® Network Controller.
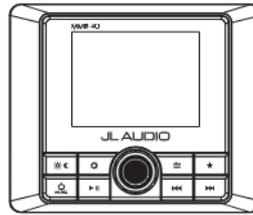
MMR-40 NMEA 2000® Network Controller

Connects to NMEA 2000® vessel networks to deliver full MediaMaster® display and control functionality using applicable NMEA 2000® cables and connectors (sold separately). Refer to the supplied Owner's Manual for specific installation and operations instructions.

NMEA 2000® Connection

Connects to NMEA 2000® vessel networks with applicable NMEA 2000® cables and connectors (sold separately), permiting compatible multi-function displays (MFD) to control your MediaMaster®. NMEA 2000® functionality requires compatible NMEA 2000® entertainment protocols (PGN) and may require a software upgrade to connected MFD devices. Refer to your MFD's manufacturer for device compatibility info.

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Troubleshooting

Problem	Possible Cause	Possible Solution
Unit doesn't turn on	Faulty fuse	Remove fuse and check with continuity meter. Replace if necessary.
	Poor connection integrity	Check "Ground" and "+12VDC" connections for pinched wires; ensure tight connections.
No or low sound from a specific zone or all zones	Mute or Pause is on	Press ▶ II or press and hold **VOL/SEL** from the **Audio Zone Levels** screen to verify that Mute is not on.
	Volume or zone level is turned down or disabled	Check **Audio Zone Levels** screen or **Audio Zone Setup** menu settings
Amps not turning on	Poor connection integrity	Check "Amp Turn-On" connections for pinched wires; ensure tight connections.
No or poor tuner reception	Poor connection integrity	Check antenna cable for pinched wires; ensure tight connections.
USB connection not working/charging	Poor connection integrity	Check USB cable for pinched wires; ensure tight connections.
SiriusXM		
Check Antenna	A fault has been detected with the SiriusXM antenna.	Ensure antenna cable is securely connected to the SiriusXM Connect Vehicle Tuner. Inspect the antenna cable for damage and kinks. Replace the antenna if the cable is damaged. SiriusXM products are available at your local audio retailer or online at www.shop.siriusxm.com.
Check SXM Tuner	The radio is having difficulty communicating with the SiriusXM Connect Vehicle Tuner.	Verify the SiriusXM Connect Tuner cable is securely connected to the radio.
No Signal	The SiriusXM Connect Tuner is having difficulty receiving the SiriusXM satellite signal.	Verify that your vehicle is outdoors with a clear view of the sky. Verify that the SiriusXM antenna is mounted securely to the outside of the vessel. Remove obstructions above or next to the SiriusXM antenna. Inspect antenna cable for damage and kinks. Consult the SiriusXM Connect Tuner installation manual for more information on antenna installation. Replace the antenna if the cable is damaged. SiriusXM products are available at your local audio retailer or online at www.shop.siriusxm.com.
Subscription Updated	The radio has detected a change in your SiriusXM subscription status. Press the BACK button to clear the message.	Visit www.siriusxm.com or call 866-635-2349 in the USA or 877-438-9677 in Canada if you have questions about your subscription.
Channel Not Available	The channel that you have requested is not a valid SiriusXM channel or the channel is no longer available. You may also see this message briefly when first connecting a new SiriusXM Connect Tuner.	Visit www.siriusxm.com for more information about the SiriusXM channel lineup.
Channel Not Subscribed	The channel that you have requested is not included in your SiriusXM subscription package or the channel that you were listening to is no longer included in your SiriusXM subscription package.	Visit www.siriusxm.com or call 866-635-2349 in the USA or 877-438-9677 in Canada if you have questions about your subscription package or would like to subscribe to this channel.
Channel Locked	The channel that you have requested is Locked by the radio Parental Control feature.	See page 15 for more information on the Parental Control feature and how to access locked channels.

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Specifications

Electrical Specifications	
Operating Voltage	14.4V DC (10V – 15.9V allowable)
Maximum Current Draw	1.5 A
Standby Current Draw	120 mA
Fuse Value	5 A
NMEA 2000® LEN	1 (Micro-C connector)
Operating Temp Range	-4 F to +158 F (-20 C to +70 C)

Display	
Size / Type	3.5-inch / TFT LCD backlighted
Resolution	320 x 240

Audio Outputs/Inputs	
Output Channels	4 stereo pairs of RCA plugs (4V RMS)
Output Zone Configuration	Relative, Absolute, Fixed or Off
Maximum Output Voltage	Relative or Absolute: 4V RMS Fixed: Selectable 4V/2V/1V RMS
Output Impedance	250 ohm
Input Channels	1 stereo pair of RCA plugs (2V/1V RMS Input Sensitivity)

Tuner	
FM Tuner with RDS	87.5 MHz to 107.9 MHz (0.2 MHz step)
AM Tuner	530 kHz to 1710 kHz (10 kHz step)
NOAA Weather Band Tuner	162.400 MHz to 162.550 MHz (0.025 MHz step)
Favorites	18 presets across all tuners

Bluetooth®	
Profile	A2DP v1.2, AVRCP v1.4
Core Specification	Version 2.1 + EDR
Codec	SBC, Qualcomm® aptX™ audio
Connection Range	Up to 35 ft / 11 m

USB	
Interface	USB 2.0
Maximum Current Output	1 A
Supported Audio Formats	MP3, WAV
Apple Compatibility	iPhone 5 or beyond (functionality contingent upon compatible iOS release)

Dimensions	
Unit W x H x D	5.94 in. x 3.90 in. x 3.17 in. (151 mm x 99 mm x 80.5 mm)
Mounting Hole W x H	4.70 in. x 3.25 in. (119.50 mm x 82.50 mm)

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Limited Warranty – Electronics (USA)

JL Audio warrants this product to be free of defects in materials and workmanship for a period of **two (2) years** from the original date of purchase.

This warranty is not transferable and applies only to the original purchaser from an authorized JL Audio dealer. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction, JL Audio will (at its discretion), repair or replace the defective product with new or remanufactured product at no charge. Damage caused by the following is not covered under warranty: accident, misuse, abuse, product modification or neglect, failure to follow installation instructions, unauthorized repair attempts, misrepresentations by the seller. This warranty does not cover incidental or consequential damages and does not cover the cost of removing or reinstalling the unit(s). Cosmetic damage due to accident or normal wear and tear is not covered under warranty.

Warranty is void if the product's serial number has been removed or defaced.

Any applicable implied warranties are limited in duration to the period of the express warranty as provided herein beginning with the date of the original purchase at retail, and no warranties, whether express or implied, shall apply to this product thereafter. Some states do not allow limitations on implied warranties, therefore these exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

If you need service on your JL AUDIO product:

All warranty returns should be sent to JL Audio 's Electronics Service Facility freight-prepaid through an authorized JL Audio dealer and must be accompanied by proof of purchase (a copy of the original sales receipt). Direct returns from consumers or non-authorized dealers will be refused unless specifically authorized by JL Audio with a valid return authorization number. Warranty expiration on products returned without proof of purchase will be determined from the manufacturing date code. Coverage may be invalidated as this date is previous to purchase date. Non-defective items received will be returned freight-collect. Customer is responsible for shipping charges and insurance in sending the product to JL Audio. Freight damage on returns is not covered under warranty.

For Service Information in the U.S.A. please call
JL Audio Customer Service:
(954) 443-1100
9:00 AM – 5:30 PM (Eastern Time Zone)
JL Audio, Inc.
10369 North Commerce Pkwy.
Miramar, FL 33025
(Do not send product for repair to this address)

International Warranties:
Products purchased outside the United States of America are covered only by that country's distributor and not by JL Audio, Inc.

MM100s-BE-MAN 100620