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## VELEX VX502

# VELEX Marine Bluetooth Amplifier Speaker Package

Model: VX502

User Instruction Manual

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## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your VELEX Marine Bluetooth Amplifier Speaker Package. This system is designed for marine environments and other outdoor applications, offering robust audio performance and convenient Bluetooth connectivity without requiring a separate head unit.

The package includes a Class-A/B marine Bluetooth amplifier and two 6.5-inch marine-grade speakers, along with a wired remote control for easy access to functions.

## 2. WHAT'S INCLUDED

- VELEX Marine Bluetooth Amplifier (Model VX502)
- Two 6.5 Inch Marine Grade 2-Way Full Range Dual Cone Speakers
- 3-meter Wired Remote Control with 3-color LED indicator
- Wiring Harness
- Mounting Hardware (Stainless Steel screws and kits)



Image: Contents of the VELEX Marine Bluetooth Amplifier Speaker Package, showing the amplifier, wired remote, and two speakers.

### 3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your VELEX Marine Bluetooth Amplifier Speaker Package. Ensure all connections are secure and waterproof where necessary.

#### 3.1 Amplifier Placement

The amplifier unit should be mounted in a secure location, away from direct exposure to water, although it features a rustproof aluminum heatsink. Ensure adequate ventilation around the unit to prevent overheating.



Image: Detailed dimensions of the VELEX VX502 amplifier and its wired remote control, showing measurements in millimeters.

### 3.2 Speaker Installation

The 6.5-inch marine-grade speakers are designed for flush mounting. Ensure the mounting depth of 2-1/4 inches (57mm) is available at your chosen location. Use the provided stainless steel mounting kits for secure installation.



Image: Dimensions of the VELEX 6.5-inch marine speaker, including overall diameter (7.5 inches / 191mm) and mounting depth (2.24 inches / 57mm).

### 3.3 Wiring Connections

Carefully follow the wiring diagram for proper power and speaker connections. All wiring should be protected from water and abrasion. The wired remote connects via an S-terminal connector; ensure this connection is always tight to prevent issues.

- **Red Wire:** +12V Ignition On (connect to a switched 12V source).
- **Yellow Wire:** +12V Battery Constant (connect directly to the positive terminal of the battery, preferably through a fuse).
- **Black Wire:** -12V Negative / Ground (connect to a solid ground point, ideally directly to the battery's negative terminal for marine applications).
- **Blue Wire:** Remote Turn-On (if applicable, for external components).
- **Speaker Wires:** Connect to the respective speaker terminals, ensuring correct polarity.

- **RCA Outputs:** For connecting to an external amplifier (if desired).
- **USB Port:** For charging devices (5V 1A) and potentially media playback (check specific model capabilities).
- **AUX Input:** For connecting external audio devices via a 3.5mm jack.

FIRST CHOICE	
STANDARD	FUNCTION
RED	 +12V Ignition On
YELLOW	 +12V Battery Constant
BLACK	 -12V (-) Neg / Ground

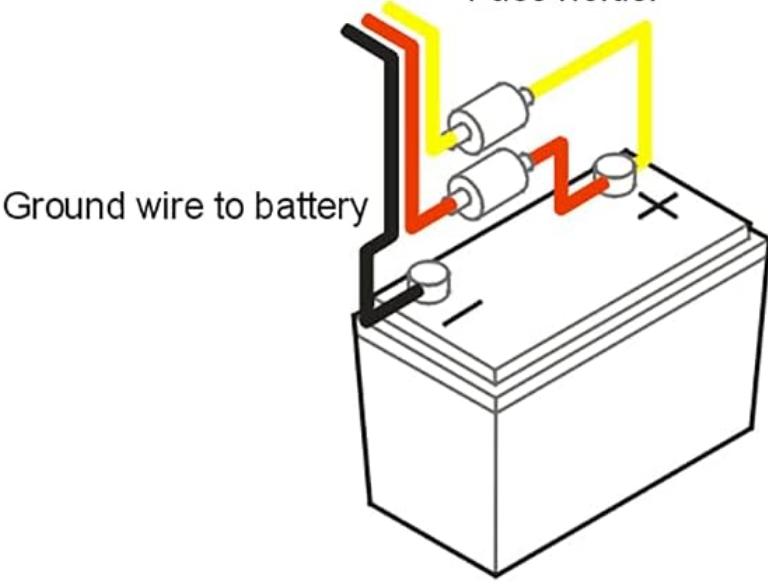
SECOND CHOICE	
Marine stereo power and ground wiring	
	Power wire to battery Fuse holder  Ground wire to battery

Image: Wiring diagram illustrating the power and ground connections for the VELEX marine stereo system, showing connections to a battery with fuse holders.

**Important: For boat installations, always ground the unit directly to the battery or a dedicated marine ground point, not to the metal hull, to prevent potential electrical issues.**

## 3.4 Installation Video

For a visual guide on the product and its components, please refer to the official product video below:

Your browser does not support the video tag.

Video: An overview of the VELEX VX502 Marine Bluetooth Amplifier and its components, demonstrating its features and connections. This video is provided by the seller, Velextech.

## 4. OPERATING INSTRUCTIONS

### 4.1 Power On/Off

The unit powers on automatically when the ignition is turned on (if wired to a switched 12V source). To manually power off or on, use the power button on the wired remote control.

### 4.2 Source Selection

Use the "SRC" button on the wired remote to cycle through available audio sources: Bluetooth, USB, and AUX input.

### 4.3 Bluetooth Pairing

1. Ensure the amplifier is powered on and set to Bluetooth source.
2. On your mobile device, enable Bluetooth and search for available devices.
3. Select "VELEX VX502" (or similar name) from the list.
4. Once paired, the LED indicator on the remote will confirm connection.
5. You can now stream audio wirelessly from your device.

### 4.4 Audio Playback and Control

Use the wired remote control to manage audio playback:

- **Volume Up/Down:** Use the dedicated volume buttons.
- **Track Skip:** Use the forward/backward buttons to skip tracks.
- **Play/Pause:** Use the play/pause button.

The remote's 3-color LED indicator provides visual feedback on the current source or status.

### 4.5 USB Charging

The USB port provides 5V 1A charging for compatible devices. Note that some vehicle electrical systems may affect USB functionality when the engine is running.

## 5. MAINTENANCE

To ensure the longevity and optimal performance of your VELEX Marine Bluetooth Amplifier Speaker Package, follow these maintenance guidelines:

- **Cleaning:** Wipe down the amplifier and speakers with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Connections:** Periodically check all wiring connections, especially the S-terminal connector for the wired remote, to ensure they remain tight and free from corrosion.
- **Water Exposure:** While the wired remote can be immersed and the black box is protected from water splashing, avoid prolonged submersion of the amplifier unit. Ensure the silicone gasket on the black box is properly seated.

- **Heatsink:** Keep the aluminum heatsink free from debris to ensure efficient heat dissipation.

## 6. TROUBLESHOOTING

If you encounter issues with your VELEX Marine Bluetooth Amplifier Speaker Package, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power	Blown fuse; incorrect wiring; loose power connection.	Check the in-line fuse (15 Amp Maxi Fuse). Verify all power and ground connections are secure and correctly wired (Red, Yellow, Black wires).
No Sound from Speakers	Incorrect speaker wiring; volume too low; wrong source selected; amplifier protection mode.	Check speaker wire polarity and connections. Increase volume. Ensure correct source (Bluetooth, USB, AUX) is selected. If amplifier is hot, allow it to cool down.
Bluetooth Connection Issues	Device too far; interference; pairing mode not active.	Ensure your device is within 30 inches (Bluetooth range). Turn off and on Bluetooth on your device and the amplifier. Re-initiate pairing process. Avoid strong electromagnetic interference.
Distorted Sound	Volume too high; improper gain settings; poor wiring.	Reduce volume. Check speaker impedance (4 Ohm recommended). Ensure all wiring is secure and free from shorts.
USB Charging Not Working	Vehicle electrical system interference; faulty cable.	Try a different USB cable. Note that some vehicle electrical systems may cause issues with USB charging when the engine is running.

## 7. SPECIFICATIONS

Feature	Specification
Model Name	VX502
Brand	VELEX
Input Voltage	12 Volts
Amplifier Type	Class-A/B Marine Bluetooth Amplifier
Max Power Output	180W into 4 Channels (suggested for 4 ohm 45W speakers)
Speaker Type	6.5 Inch, Marine Grade, 2 Way, Full Range, Dual Cone
Speaker Max Output Power	180 Watt (Per Pair)
Speaker Mounting Depth	2-1/4 Inch (57mm)

Feature	Specification
Impedance	4 Ohm
Frequency Response	20Hz - 20KHz
Fuse	15 Amp Maxi Fuse
USB Charging Output	5V 1A
Connectivity	Bluetooth, USB, AUX
Control Method	Wired Remote
Material	Plastic, Metal, Electronics, Cables (Rustproof Aluminum heatsink)
Product Dimensions (Amplifier)	1.97"D x 8.03"W x 3.9"H
Item Weight	3.3 pounds (1.5 Kilograms)
Special Feature	Waterproof (Wired Remote), Water Splashing Protection (Black Box)
Recommended Uses	Motorcycles, Hot Rods, UTVs, Boats, Golf Carts, Farm Tractors, Snowmobiles, ATVs, Riding Lawnmowers

## 8. WARRANTY AND SUPPORT

For warranty information and technical support, please contact VELEX TECH LTD directly or refer to the documentation provided with your purchase. Specific warranty terms may vary by region and retailer. You can often find support contact details on the manufacturer's official website or through the seller from whom you purchased the product.