

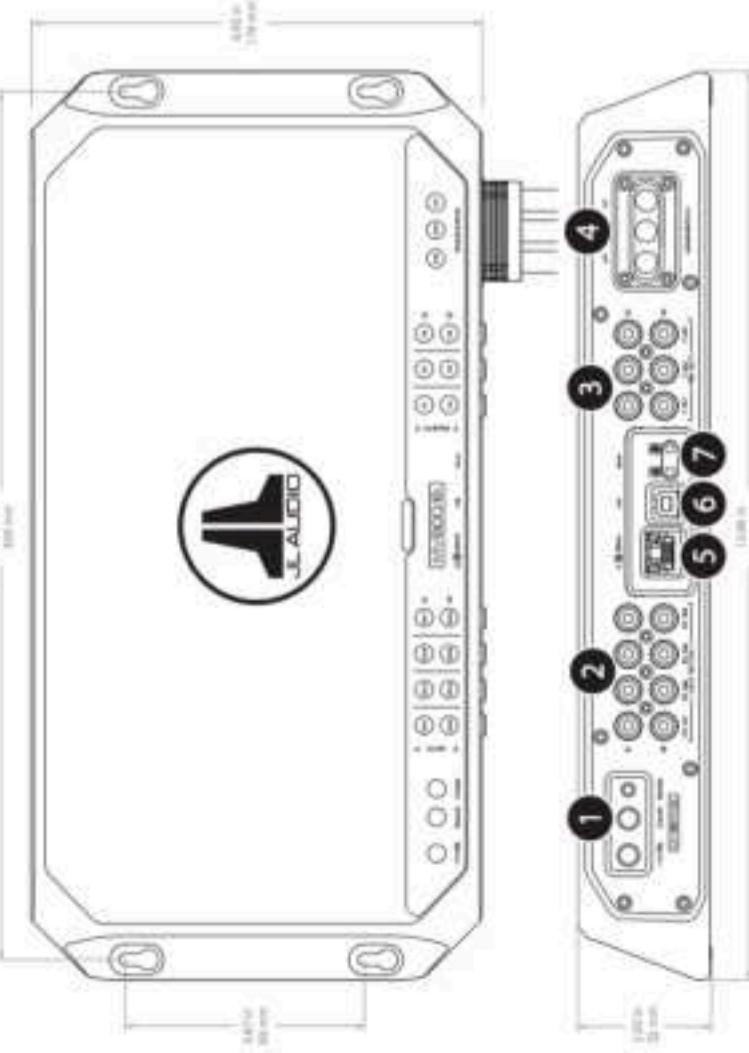


MV600/6i

600W Full-Range 6-Channel Class D Marine Amplifier with Integrated DSP



CONNECTION GUIDE



Product Description

The MyLoco6i is a six-channel, full-range Class D marine amplifier equipped with NexD™, the second generation of JL Audio's high-speed switching technology. It is engineered to deliver reference-grade audio amplification with outstanding efficiency while also incorporating unprecedented processing power. Instead of traditional analog processing controlled by knobs and switches, MV amplifiers feature an integrated DSP (Digital Signal Processor). The amplifier and its integrated DSP are configured using an external device (PiC, Tablet or Phone), with the appropriate JL Audio TUN™ application installed. (See What Is Tun? section for more info.)

What is Included

- (1) Amplifier
- (1) Power Connector
- (3) Speaker Output Harnesses
- (1) USB A/B Cable (6 ft./1.8 m)
- (1) Connection Guide
- (4) Mounting Screws
- (1) 2.5 mm Hex Wrench
- (1) 3 mm Hex Wrench
- (1) Instruction Guide

Planning Your Installation

It is important that you take the time to read this manual thoroughly and that you plan your installation carefully. It is very easy to damage electrical systems in modern vessels. Never assume that you have found appropriate wires without consulting a reliable wiring diagram or without analyzing using proper test equipment. If you are uncomfortable or unfamiliar with diagrams or testing methods, please enlist the services of your authorized JL Audio dealer or an installation professional. Your authorized dealer has the training, expertise and installation equipment to ensure optimum performance from this product. The following are some considerations that you must take into account when planning your installation.

Safety Considerations

- Install your amplifier in a dry, well-ventilated location that does not interfere with factory installed systems.
- This product should never be submerged under water or subjected to high-pressure water spray.
- Do not install where it will be directly exposed to the elements, or in the engine compartment, or in any areas of extreme heat. Areas exposed to a heater or hot air should also be avoided.
- When selecting a mounting location, consider the orientation of the amplifier and its associated connections. If possible, position the amplifier vertically, with all connections pointing downward. Wiring and cables should be routed to direct potential condensation and moisture away from the amplifier.
- Securely mount the amplifier so that it does not come loose in the event of a collision or sudden jolt, or as a result of repeated vibrations during normal operation.
- Check before drilling to make sure that you will not be drilling into an exterior panel/hull, fuel tank, fuel line, wiring harness, or other vital system.
- Do not run system wiring outside or underneath the vessel. This is an extremely dangerous practice, which can result in severe damage/injury.
- Protect all system wires from sharp edges by carefully routing them down and using grommets and loom, where appropriate.
- Secure all wiring as needed, using cable ties or wire clamps to protect them from moving parts and sharp edges.

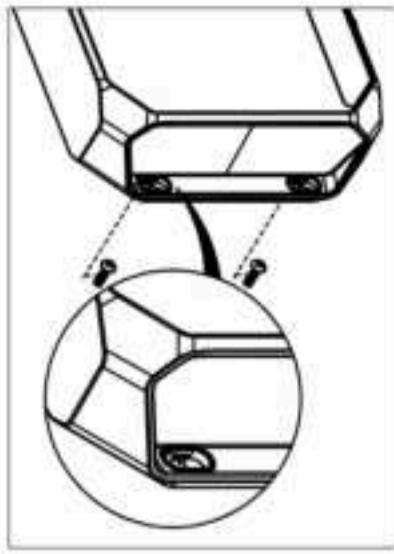
Mounting Considerations

MV amplifiers are equipped with keyhole style mounting holes to amplify installations in confined spaces or vertical-mount applications. Mounting screws may be pre-installed, allowing amplifier connections to be made prior to securing in its final location. See diagram at right.

When selecting the installation location, consider the mounting orientation of the amplifier and its associated connections. If possible, position the amplifier vertically with all connections pointing downward. Wiring and cables should be routed to direct potential condensation and moisture away from the amplifier. When installed in this manner, the amplifier achieves an IPX2 water-resistance rating.

Cooling Efficiency Considerations

The outer shell of your JL Audio amplifier is designed to remove heat from the amplifier circuitry. For optimum cooling performance, this outer shell should be exposed to as large a volume of air as possible. Enclosing the amplifier in a small, poorly ventilated chamber can lead to excessive heat build-up and degraded performance. If an installation calls for an enclosure around the amplifier, we recommend that this enclosure be ventilated with the aid of a fan. In normal applications, fan-cooling is not necessary. When mounting the amplifier in an enclosed compartment, make sure there is at least 1 inch (2.5 cm) of space above the amplifier's outer shell to permit proper cooling.



1 Power Connector

The MV600/6i's +12 VDC and "Ground" connections are designed to accept up to 4 AWG copper wire. Note: Copper Clad Aluminum (CCA) wire is not recommended. Tinned copper power wire is the best choice for marine installations. **4 AWG is the minimum speaker wire size for this amplifier.**

To connect the power, ground and remote turn-on wires to the amplifier, back out the set screws on the connector using the supplied hex wrenches. Strip back 3.6 inch (10 mm) of insulation from the end of each wire and insert the bare wire into the receptacle on the power connector plug, seating it firmly so that no bare wire is exposed. While holding each wire in place, tighten each set screw firmly, taking care not to strip the head of the screw. Install the power connector by plugging it into the amplifier's power connector receptacle, pushing firmly.

A. **+12 VDC:** Run copper wire from the positive (+12V) battery post to the amplifier's mounting location. If additional amplifiers are being installed, run the appropriate gauge speaker wire for the combined maximum current draw and install a fused distribution block near the amplifiers.

B. An appropriate fuse or ignition-protected circuit breaker (sold separately) at the main power wire(s) is vital for vessel safety. This must be installed within 7 inches (18 cm) of the battery post connection and in compliance with marine industry standards. If this is the only device connected to this main wire, use a 50 A value. Do not install the fuse or close the circuit breaker until the power wire has been securely connected to the amplifier and all other connections have been made.

C. **Ground:** This connection should be made to the NEGATIVE battery post. Alternatively, an appropriately equipped and positioned DC ground bus bar near the battery may be used. **All ground connections [source unit and amplifier] should be made at the same location.**

D. **Remote:** This connection should be made to the source unit's positive (+12V) remote turn-on output. If your source unit does not have a dedicated remote turn-on output, the amplifier's remote turn-on connection can be connected to +12V via a switch that derives power from an ignition-switched circuit.

2 Input Section

Eight female RCA jacks feed a differential-balanced input section, providing a high degree of input flexibility and redundant superior noise rejection. This type of input architecture also allows the MV600/6i to cleanly accept any analog audio signal up to 16 WMS, without using a line-output converter.

3 Pre-Outs

Six female, RCA jacks deliver line-level, analog audio outputs (Max 4 WMS) that are compatible with most types of aftermarket equipment. These are configured with the TUN™ Software Interface.

4 Speaker Output Harnesses

Connect the speaker output leads to the corresponding speaker wires. These harnesses and their companion cables are equipped with water-resistant connectors for maximum connection integrity in marine environments.

5 JLRD-OHM

Connect optional accessories (MVI-HUB, M-DRC-ADAPT, MVI-BTC, MVI-DRC-ADAPT, etc.) to this port.

6 USB

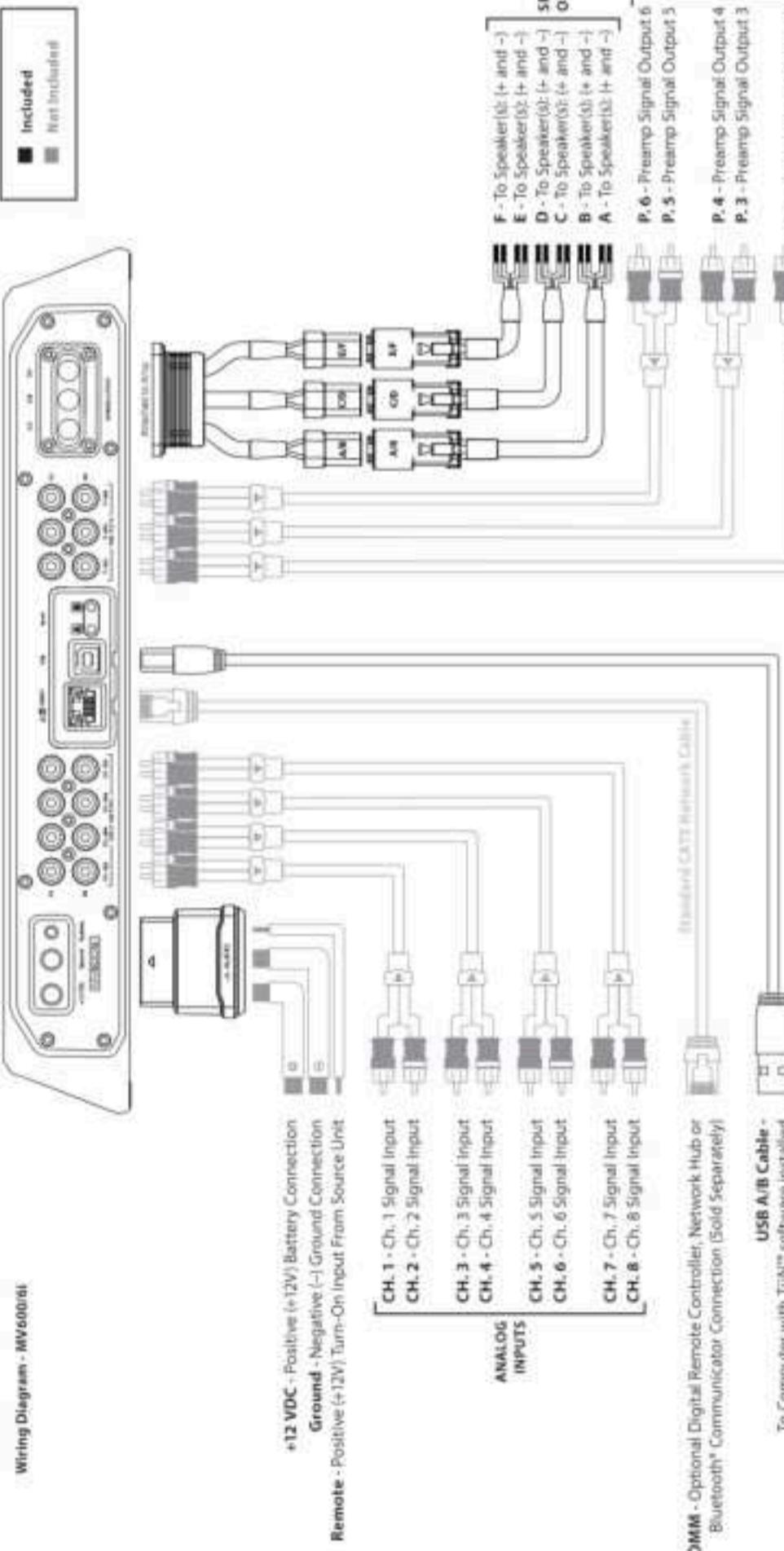
This USB A/B port permits connection to a computer for configuration and tuning, using TUN™ Software.

7 Reset Buttons

Use a small pin to perform the following:
(A) Factory Reset (wipe memory, reboot amp) - Press and hold the button for 7 seconds. All user settings will be erased and the amplifier will revert to its factory settings.
(B) Reboot Amplifier - Press and release the button. Previous user settings will be retained.

LED Status/Condition Reporting

LED / Location	Behavior	Status/Condition
Upper Left LED / A/B COM Port	Floating Blue	Critical Voltage (too low)
Upper Left LED / A/B COM Port	Floating Yellow	Excessive Output Current (overload/breakout)
Upper Right LED / A/B COM Port	Green	Detected ECU® Device
Upper Right LED / A/B COM Port	Blue	JLRD Connection Success
Upper Right LED / A/B COM Port	Yellow	Invalid ECU® Device
Upper Right LED / A/B COM Port	Red	ECU/USB Usage Temperature
Upper Right LED / A/B COM Port	Green	Executive Remote Output Control
Upper Right LED / A/B COM Port	Grey	Active Connection with TUN™ Software

**What is TunN?**

TunN™ is software that you use to configure, tune and control your JLA amplifier, and other JLA Audio DSP products. TunN™ automatically recognizes what it is connected to, and allows you to make adjustments with a clean interface specifically set up for that product. TunN™ is available for download for free in a variety of applications, for computers and most handheld devices. For more information, visit jlaudio.com/tun.



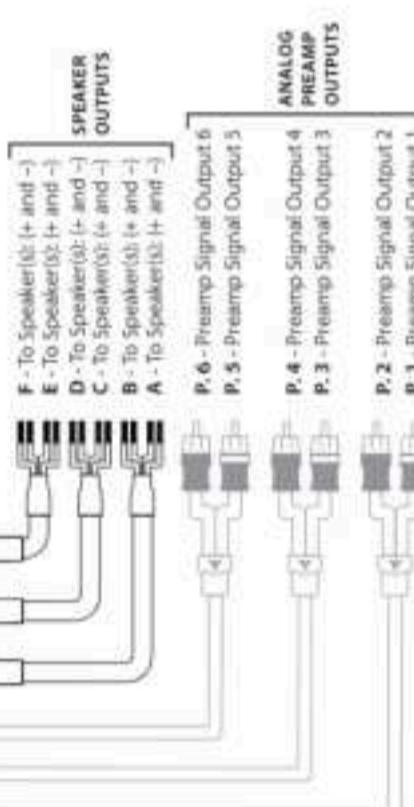
For Windows® PC or Mac® computers, TunN™ connects via USB and offers complete control and command of the entire MVI feature set from the comfort of your desk or driver's seat. Software also runs in demo mode, without connected amplifiers, for offline setup or demo purposes. Test drive it for free!



For iPad or Android tablets, Enjoy the full featured TunN™ software experience on your tablet, with the freedom of a wireless connection via Bluetooth®. Requires VXi-BTC Bluetooth® Communicator.



Wireless connection and streamlined options for fast and simple amplifier setup. Download TunN™ Express for iPhone, iPad and Android phones & tablets. Requires VXi-BTC Bluetooth® Communicator.

**Specifications**

Amplifier Specifications			
Amplifier Type	2x100W High Power Class-D	Amplifier Type	2x100W High Power Class-D
Power Supply Type	Universal AC/DC Switching	Power Supply Type	Universal AC/DC Switching
Operating Voltage	18-1WDC	Operating Voltage	18-1WDC
Min. Crossover Frequency	4 kHz	Min. Crossover Frequency	4 kHz
Recommended Gain	30 dB	Recommended Gain	30 dB
Standby Current Draw	2.4 mA	Standby Current Draw	2.4 mA
Rated Input Power @ 4Ω	75W RMS	Rated Input Power @ 4Ω	75W RMS
Rated Output Power @ 4Ω	200W x 2	Rated Output Power @ 4Ω	200W x 2
Frequency Response	10Hz-30kHz	Frequency Response	10Hz-30kHz
Distortion	< 0.08%	Distortion	< 0.08%
Electro Magnetic Interference	< 25dB	Electro Magnetic Interference	< 25dB
EMI Rating	A+	EMI Rating	A+
CE Specification	CE Marked	CE Specification	CE Marked
RoHS	RoHS Compliant	RoHS	RoHS Compliant

Connections

Connection	Wire Color	Speaker Outputs	Description
ANalog Input	White	(+) Positive Speaker Output	(+) Positive Speaker Output
CH. 1 - Ch. 4 Signal Input	White/Black	(-) Negative Speaker Output	(-) Negative Speaker Output
CH. 5 - Ch. 8 Signal Input	Grey	(+) Positive Speaker Output	(+) Positive Speaker Output
CH. 1 - Ch. 1 Signal Input	Grey/Black	(-) Negative Speaker Output	(-) Negative Speaker Output
CH. 2 - Ch. 2 Signal Input	Green	(+) Positive Speaker Output	(+) Positive Speaker Output
CH. 3 - Ch. 3 Signal Input	Green/Black	(-) Negative Speaker Output	(-) Negative Speaker Output
CH. 6 - Ch. 6 Signal Input	Purple/Black	(+) Positive Speaker Output	(+) Positive Speaker Output
CH. 7 - Ch. 7 Signal Input	Open	(-) Negative Speaker Output	(-) Negative Speaker Output
CH. 8 - Ch. 8 Signal Input	Open/Black	(+) Positive Speaker Output	(+) Positive Speaker Output
Pre-Out with independent DSP	Magenta	(-) Negative Speaker Output	(-) Negative Speaker Output
Pre-Amp Jack	Input Block	(+) Positive Speaker Output	(+) Positive Speaker Output
CH. 1	Black/RCA	(+) Positive Speaker Output	(+) Positive Speaker Output
CH. 2	Red/RCA	(-) Negative Speaker Output	(-) Negative Speaker Output
CH. 3	Black/RCA	(+) Positive Speaker Output	(+) Positive Speaker Output
CH. 4	Red/RCA	(-) Negative Speaker Output	(-) Negative Speaker Output
CH. 5	Black/RCA	(+) Positive Speaker Output	(+) Positive Speaker Output
CH. 6	Black/RCA	(-) Negative Speaker Output	(-) Negative Speaker Output
CH. 7	Black/RCA	(+) Positive Speaker Output	(+) Positive Speaker Output
CH. 8	Red/RCA	(-) Negative Speaker Output	(-) Negative Speaker Output
Power	Black/RCA	(+) Positive Speaker Output	(+) Positive Speaker Output

Limited Warranty - Marine Amplifiers USA

JLA 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. An authorized JLA Audio dealer, should service be necessary under this warranty. For any return due to manufacturing defect or malfunction, JLA 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 negligence, failure to follow installation instructions, unauthorized repair attempts, misrepresentation 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. Products installed in original equipment by boat manufacturers are covered by the boat manufacturer's warranty, not JLA Audio, Inc.

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. All warranties begin 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 JLA AUDIO product:

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

For Service Information in the U.S.A., please call:

JLA Audio Customer Service:
(954) 443-3100 9:00 AM - 5:30 PM (Eastern Time Zone)
JLA 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 JLA Audio, Inc.