

V SERIES

Installation and Operation Guide



VLF208LV



VLF208



VLF208LV

Models

VLF208

VLF208LV



IMPORTANT SAFETY INSTRUCTIONS

Always follow these basic safety precautions when using or installing V SERIES loudspeakers and accessories:

- Read these instructions prior to assembly.
- Keep these instructions for reference.
- Heed all warnings.
- Follow all instructions, particularly those pertaining to rigging, mounting, hanging and electrical connections.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instruction.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Only use attachments and accessories that are specified and approved by the manufacturer.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

The terms CAUTION, WARNING, and DANGER may be used in this manual to alert the reader to important safety considerations. If you have any questions or do not understand the meaning of these terms, do not proceed with installation. Contact your local dealer, distributor, or call Community directly for assistance. These terms are defined as:



CAUTION: describes an operating condition or user action that may expose the equipment or user to potential damage or danger.



WARNING: describes an operating condition or user action that will likely cause damage to the equipment or injury to the user or to others in the vicinity.



DANGER: describes an operating condition or user action that will immediately damage the equipment and/or be extremely dangerous or life threatening to the user or to others in the vicinity.

These installation instructions are for use by qualified personnel only. To reduce the risk of fire or electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

RIGGING AND ELECTRICAL SAFETY



IMPORTANT: The loudspeakers described in this manual are designed and intended to be mounted to differing building surfaces using a variety of rigging hardware, means and methods. Installation of loudspeakers should only be performed by trained and qualified personnel. All electrical connections must conform to applicable city, county, state, and national (NEC) electrical codes.



DANGER: All rigging fittings must be fully tightened and secured. Any missing fasteners or parts will compromise the structural integrity of the enclosure and constitute a safety hazard. Do not suspend this loudspeaker unless all fasteners are securely in place!



DANGER: It is possible to experience severe electrical shock from a power amplifier. Always make sure that all power amplifiers are in the "OFF" position and unplugged from an AC Mains supply before performing electrical work.



IMPORTANT: Refer to the sections on installation and connections later in this manual for additional information on rigging and electrical safety.



IMPORTANT: The flat-head hex-drive rigging screws that come installed in each enclosure must either be replaced with rigging brackets and threaded fasteners, or they must be kept in place to seal the enclosure from air leaks. If the rigging fittings do not remain sealed, air leaks will occur in the enclosure that will compromise the low-frequency performance with distortion, reduced output, and premature driver failure.

UNPACKING / INSPECTION

Community V SERIES VLF subwoofers are engineered and manufactured to be rugged and they are carefully packed in sturdy cartons. However, it is recommended to thoroughly inspect each unit after it has been removed from the packaging, as damage could occur during shipping.

Please note that once the shipment has left your dealer or the Community factory, the responsibility for damage is always borne by the freight company. If damage has occurred during shipping, you must file a claim directly with the freight company. It's very important to contact the freight company as soon as possible after receiving your shipment, as most freight companies have a short time limit within which they will investigate claims. Make sure to save the carton and the packing material, as most claims will be denied if these materials are not retained. Your Community dealer and the factory will try to help in any way they can, but it is the responsibility of the party receiving the shipment to file the damage claim.

It is always a good idea to retain the carton and packing materials, if possible, in the event that the unit may need to be returned to your dealer or distributor for repair in the future.

IN THE CARTON

Each shipping carton contains the following:

- VLF subwoofer (fully assembled)
- Rubber feet and attachment hardware (VLF208 only)
- Information packet



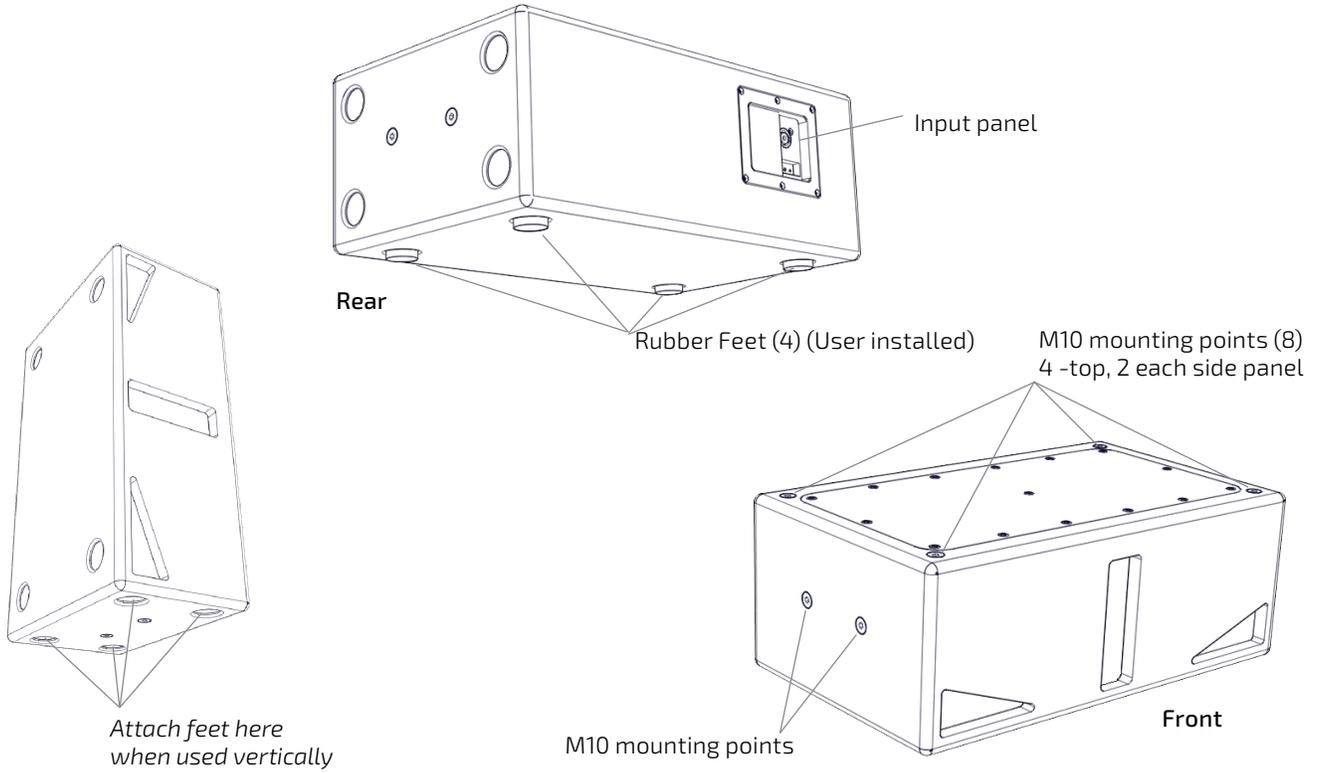
DANGER: VLF model rigging fittings are rated at a Working Load Limit (WLL) of 100 lbs (45.4 kg) with a 10:1 safety margin. No single rigging fitting should ever be subjected to a load that is greater than this stated limit. Failure to heed this warning could result in injury or death!



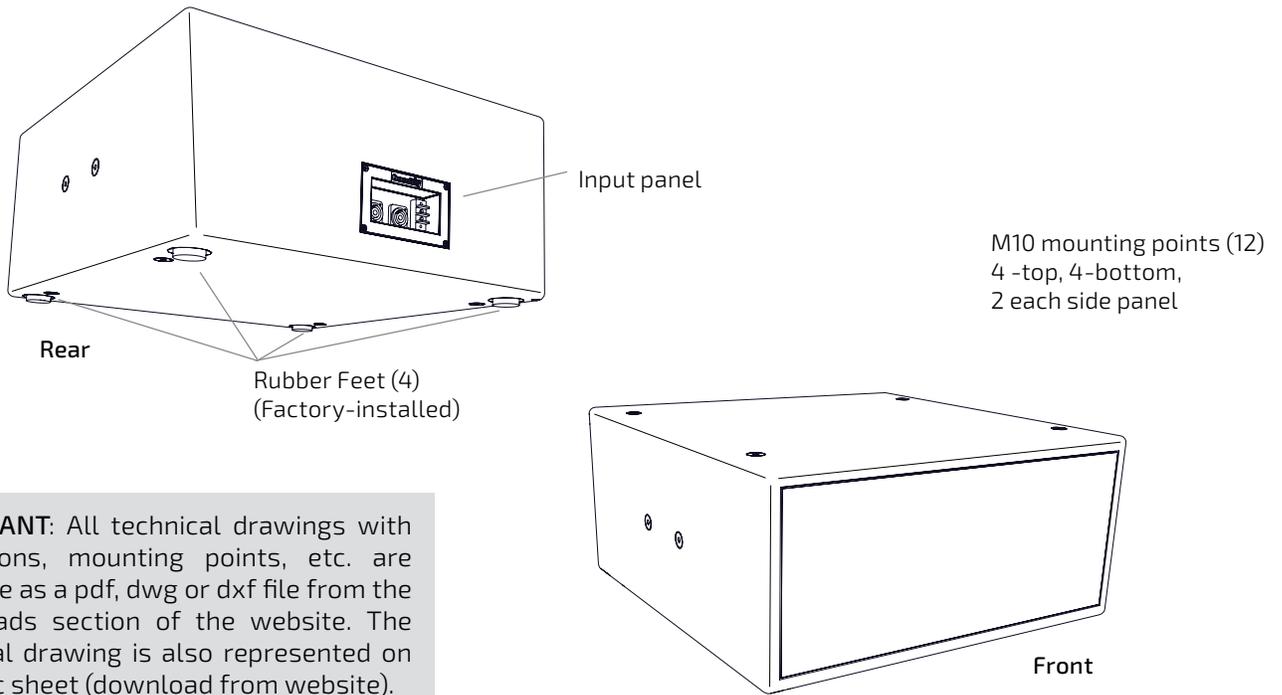
CAUTION: Installation of VLF loudspeakers should only be performed by trained and qualified personnel. It is strongly recommended that a licensed and certified professional structural engineer approve the mounting. Severe injury and/or loss of life may occur if this product is improperly installed.

PRODUCT REPRESENTATION

VLF208 SUBWOOFER



VLF208LV SUBWOOFER



IMPORTANT: All technical drawings with dimensions, mounting points, etc. are available as a pdf, dwg or dxf file from the downloads section of the website. The technical drawing is also represented on the spec sheet (download from website).

CONNECTIONS AND INSTALLATION

USE THE CORRECT WIRE OR CABLE

The VLF subwoofers are intended to be connected directly to the amplifier. The VLF208 and VLF208LV come with two methods of connecting the amplifier to the subwoofer; a terminal strip and an industry standard NL4-type locking connector. These two connectors are wired in parallel with each other, on all models.

If connecting to the terminal strip, terminating the wires with a spade or ring connector (Figure 1a) is recommended for secure connections. The maximum width of the ring or spade lug should be 0.375" (9.5mm), or less. The terminal screws are #8 (M4). The maximum wire size that can be accommodated for bare wire connections is 10 AWG (5.26 mm²).

Note: Wire insulation colors may vary depending upon region or manufacturer. Be consistent with conductor color use throughout the system.

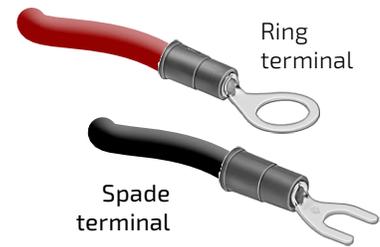


Figure 1a. Wire Connectors

NL4-TYPE CONNECTORS

Terminations may be soldered, or made by means of their built-in screw and pressure clamp (Figure 1b). If using the pressure clamp, it's important to tighten it fully, then to wait about ten minutes (longer is better), then to tighten it again. This is because copper wire flows under pressure. After initially tightening the screw clamp, some minutes later the screw will no longer be as tight due to the effect of the compression on the copper. Typically, only one cycle of "tighten – wait – re-tighten" is required for a secure connection.

The VLF208 has one (1) NL4-type locking connector, and the VLF208LV has two (2) NL4-type locking connectors (Figure 2).

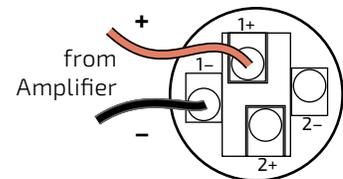


Figure 1b. NL4-Type Connector



DANGER: When wiring the amplifier(s) to the loudspeaker(s), always power-down the amplifier(s) and disconnect their AC Mains plug(s). Many high power amplifiers can deliver enough voltage and current to cause a harmful or lethal electric shock. Shocks from very low frequencies, such as kick drums, can cause the human heart to stop beating at relatively low power levels.



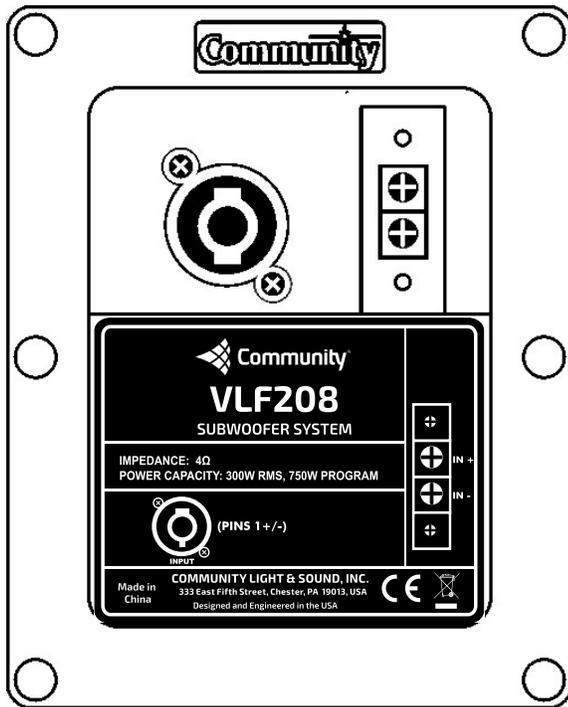
WARNING: After wiring the amplifier(s) to the loudspeaker(s), first power up all devices that are upstream of the amplifier, such as mixers, equalizers, compressor/limiters, etc., before powering-up the amplifier. This is to avoid passing any clicks or pops that may originate in the upstream devices to the loudspeakers. The amplifier should initially be powered-up with its gain controls turned all the way down. After making sure that a continuous signal is present, such as music source playing, slowly raise the level of the gain controls to establish that the wiring has been installed correctly. Only then should the loudspeaker be operated at normal output levels.



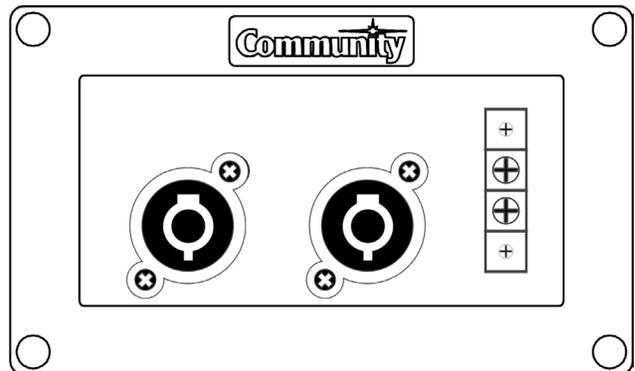
IMPORTANT: All electrical installation connections for loudspeaker lines are subject to all applicable governmental building and fire codes. The selection of appropriate electrical hardware to interface with the V SERIES loudspeaker lies solely with the installation professional. Community recommends that an appropriately licensed engineer, electrician, or other qualified professional identify and select the appropriate conduit, fittings, wire, etc. for the installation.

CONNECTIONS AND INSTALLATION

CONNECTION: SUBWOOFER INPUT PANELS



VLF208



VLF208LV

Figure 2. Input panels and labels

OPTIONAL RUBBER FEET (*VLF208 ONLY*)

Four (4) rubber feet and screws are included with the VLF208. There are 4 circular depressions in the bottom of the cabinet, and on one side panel for vertical installation. Place a foot in each depression on the appropriate side and screw it to the cabinet.

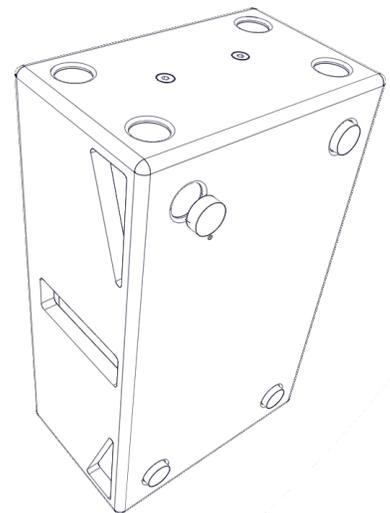


Figure 3. Screw rubber feet to the cabinet,

RIGGING / SUSPENSION AND SAFETY

The terms "rigging", "flying" and "suspension" are often used interchangeably in describing methods of installing loudspeaker systems at elevated positions.

IMPORTANT NOTES ON RIGGING LOUDSPEAKERS

There are three areas of responsibility for rigging loudspeakers. The first is the building structure. Always consult with the building architect or structural engineer to assure the ability of the structure to support the loudspeaker system. The second area of responsibility is the loudspeaker itself. Community certifies its loudspeaker systems and rigging accessories for suspension when they are properly installed according to our published guidelines. The third area of responsibility is everything between the loudspeaker and the building structure and the actual process of installation. The installing contractor assumes this responsibility. Loudspeaker rigging should be performed only by certified rigging professionals using certified rigging hardware chosen for the specific application. Prior to installation, the contractor should present a rigging plan, with drawing and detailed parts list, to a licensed structural engineer (P.E.) or architect for written approval.



DANGER: Some of the loudspeakers described in this manual are may be suspended using a variety of rigging hardware, means, and methods. It is essential that all installation work involving the suspension of these loudspeaker products be performed by competent, knowledgeable persons who understand safe rigging practices. Severe injury and/or loss of life may occur if these products are improperly suspended.



DANGER: All rigging fittings must remain sealed with the included flat-head Allen screws or they must be fitted with properly rated optional mounting hardware. Any missing fasteners will compromise the structural integrity of the enclosure and constitute a safety hazard. Do not suspend this loudspeaker unless all fasteners are securely in place!



WARNING - NON-COMMUNITY RIGGING HARDWARE: Non-Community hardware used for rigging the V SERIES subwoofers must be certified by the supplier for this use and must be properly rated for safety.

ACCESSORIES

VLF-Y208 MOUNTING YOKE BRACKET

The VLF-Y208 yoke bracket is designed to mount to the VLF208 subwoofer in either a vertical or horizontal orientation. It is engineered to provide a high margin of safety when supporting the VLF208 subwoofer. Yokes are steel, finished with a durable double-layer powder coat in either black or white. Refer to the VLF-Y208 Quick Start instructions accompanying the yoke.

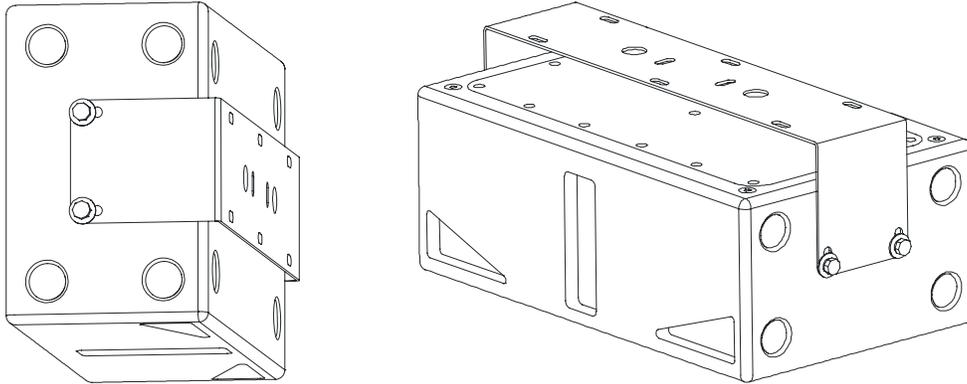


Figure 4. VLF-Y208 mounted to VLF subwoofer

VLF-SAB STEERED ARRAY BRACKET

The VLF Steered Array Bracket enables the construction of cardioid bass arrays, steered bass arrays, or vertical bass columns of compact VLF Series subwoofers, or combinations thereof. Designated the VLF-SAB, it is intended for use only with the VLF208 and/or VLF208LV subwoofer systems.

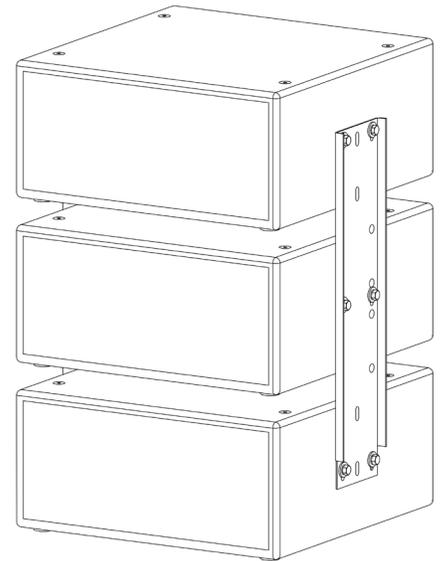
For more information, consult the VLF-SAB user's guide for detailed safety instructions. It is the responsibility of the installer to insure that safe installation practices are followed. Installation of loudspeakers should only be performed by trained and qualified personnel. It is strongly recommended that a licensed and certified professional structural engineer approve the mounting design.



IMPORTANT: All rigging fittings should remain sealed, otherwise air leaks will occur in the enclosure that can compromise the low-frequency performance with distortion and reduced output.



WARNING: VLF rigging fittings are rated at a Working Load Limit of 100 lbs (45.4kg) with a 10:1 safety margin. No single rigging fitting should ever be subjected to a load that is greater than 100 lbs. Failure to heed this warning could result in injury or death!



PERFORMANCE AND SPECIFICATIONS

USE A DIGITAL SIGNAL PROCESSOR

For best performance, loudspeaker protection and system longevity, a digital signal processor (DSP) must be used with all V SERIES loudspeakers. Community's dSPEC226 processor(s) and Resyn® software contain all of the information (high pass filters, limiters, factory tunings) and DSP settings to fully optimize your system. For more information on installing and operating your VLF subwoofer, please refer to Community's website at communitypro.com, or contact our Technical Applications Group (TAG) at tagteam@communitypro.com, or by phone at 610-876-3400 or toll-free (within the US and Canada) at 800-523-4934.

SPECIFICATIONS AND INFORMATION

Full product specifications and current documentation (manuals, sales literature) is available at communitypro.com. Additional technical information to assist you in operating and optimizing your system or understanding more about loudspeaker operation is also available on the website or by contacting the Technical Applications Group (TAG).

WARRANTY INFORMATION

TRANSFERABLE WARRANTY "(LIMITED)" VALID IN THE USA ONLY

The V SERIES loudspeakers are designed and backed by Community Professional Loudspeakers. For complete warranty information within the USA please refer to www.communitypro.com/warranty. Please call 610-876-3400 or visit the website to locate your nearest Authorized Field Service Station. For Factory Service call 610-876-3400. You must obtain a Return Authorization (R/A) number prior to the return of your product for factory service.

WARRANTY INFORMATION AND SERVICE FOR COUNTRIES OUTSIDE THE USA

To obtain specific warranty information and available service locations for countries other than the United States of America, contact the authorized Community Distributor for your specific country or region.

Note: Every effort has been made to insure that the information contained in this manual was complete and accurate at the time of printing. However, due to ongoing technical advances, changes or modifications may have occurred that are not covered in this manual. The latest version is available at communitypro.com.