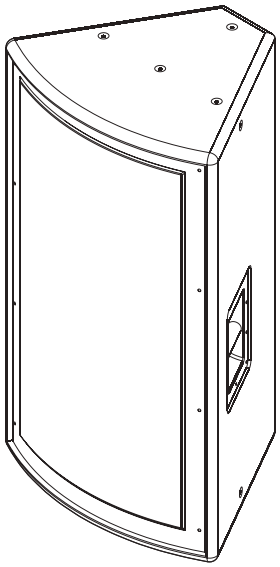
1675 MacArthur Blvd., Costa Mesa, CA, 92626 USA
Main Number (714) 754-6175 or toll free (USA only) (800) 854-4079
Customer Service(714) 957-7150 or toll free (USA only) (800) 772-2834

MD Series Powered Loudspeaker Products

User Manual Manual del Usuario Manuel d'utilisation Benutzerhandbuch 用户手册

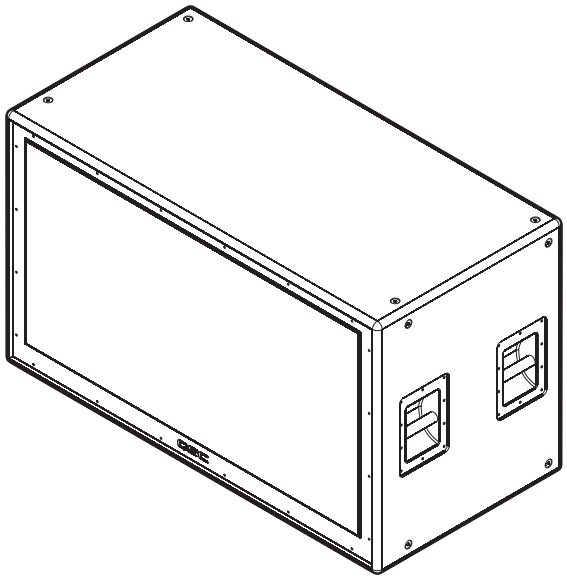
MD-LP115 1 x 15-inch Low-frequency

MD-LP118 1 x 18-inch Low-Frequency



MD-SP215 2 x 15-inch Subwoofer

MD-SP218 2 x 18-inch Subwoofer



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TD-000196-00 rev.B

Important Safety Precautions & Explanation of Symbols

Install in accordance with QSC Audio Product's instructions and under the supervision of a licensed Professional Engineer.

WARNING!

**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER.
NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.**

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous" voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to humans.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in this manual.

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1- Read these instructions.
2- Keep these instructions.
3- Heed all warnings.
4- Follow all instructions.
5- WARNING: To prevent fire or electric shock, do not expose this equipment to rain or moisture. Do not use this apparatus near water.
6- Clean only with a dry cloth.
7- Allow a minimum of 4" (100mm) clearance at cabinet back for convection cooling. Keep anything that might restrict airflow away from the rear of the enclosure (i.e draperies, fabric, etc...). Do not block any ventilation openings. This product contains an internal power amplifier that produces heat.
8- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a grounding prong. The wide blade or third prong are provided for your safety. If the provided plug does not fit your outlet, consult an electrician for the replacement of the obsolete outlet.
10- Protect the power cord from being walked on or pinched, particularly plugs, convenience receptacles, and the point where they exit from the apparatus.
11- Use only attachments/accessories specified by QSC Audio Products, Inc.
12- Use only with hardware, brackets, stands, and components sold with the apparatus or by QSC Audio Products, Inc.
13- Unplug the apparatus during lightning storms or when unused for long periods of time.
14- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, 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.
15- Before placing, installing, rigging, or suspending any speaker product, inspect all hardware, suspension, cabinets, transducers, brackets and associated equipment for damage. Any missing, corroded, deformed, or non-load rated component could significantly reduce the strength of the installation, placement or array. Any such condition severely reduces the safety of the installation and should be immediately corrected. Use only hardware which is rated for the loading conditions of the installation and any possible short-term, unexpected overloading. Never exceed the rating of the hardware or equipment.
16- Consult a licensed, Professional Engineer regarding physical equipment installation. Ensure that all local, state and national regulations regarding the safety and operation of flying equipment are understood and adhered to.

FCC Interference Statement

NOTE: 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 to 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 switching 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 the 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 or TV technician for help.

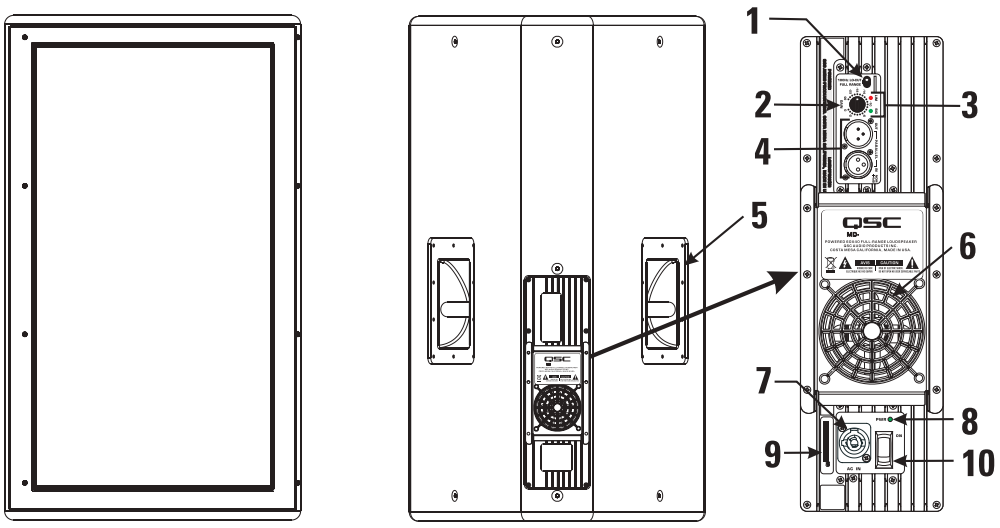
Introduction

Congratulations and thank you for your purchase of this professional, powered loudspeaker product. To get the most from your investment, we recommend you review all the information provided in this User Manual.

The Modular Design (or "MD") self-powered loudspeakers provide excellent sound, power amplification on-board, and a multitude of models with common cabinet design making installation easier. Multiple pick points and minimal weight increase over non-powered versions enable the powered MD series to solve more application challenges than competing designs. Available in black or white, they are the perfect solution for house-of-worship, performing arts center, and arena applications that demand flexible and excellent-sounding system solutions. Handles are provided on black-colored enclosures, while white-colored enclosures omit handles for a cleaner appearance.

All models are self-powered, using highly efficient class-D amplifiers and switch-mode power supplies. AC line connection is fast and easy; a locking, quick-disconnect Neutrik PowerCon® ensures reliable AC mains connection while providing an easy-to-remove power cord for cabinet mobility. Audio is input to the self-powered loudspeaker via an XLR connector with an additional XLR output for daisy-chaining. Features vary by model, so please refer to the specifications for specific model information.

MD-LP shown (MD-SP similar)



1- Filter Switch
2- Gain Adjuster
3- Green Signal and Red Clip Indicator LEDs
4- Input and Output XLR connectors
5- Handles, only on black enclosures
6- Cooling Fan
7- AC Mains Entrance
8- Blue Power ON LED Indicator
9- Serial Number Plate
10- Power Switch (AC Mains Switch)

NOTE! Handles are provided on black-colored enclosures only! White-colored enclosures are not equipped with handles.

Installation

There are fifteen (15) load-rated pick points on the MD-LP enclosure and sixteen (16) on the MD-SP enclosure. As shipped from the factory, each pick point has a strength rated flat head bolt installed. These bolts are load bearing components of the enclosure. Do not remove these bolts except to replace a bolt with a forged-shoulder eye bolt. If a flat head screw is lost, contact QSC's Technical Services department for a replacement.

Ensure all pick-point fasteners are installed and tightened to 40 in-lb (4.519 N-m) to maintain enclosure's rated strength. Air leaks resulting from missing hardware will degrade the loudspeaker's performance.

For eye bolt suspension, use only 3/8-inch, 16 threads per inch forged shoulder eye bolts, QSC part number SR-000096-00. Contact QSC Technical Services department for complete information.

Before placing, installing, rigging, or suspending any speaker product, inspect all hardware, suspension, cabinets, transducers, brackets and associated equipment for damage. Any missing, corroded, deformed, or non-load rated component could significantly reduce the strength of the installation, placement or array. Any such condition severely reduces the safety of the installation and should be immediately corrected. Use only hardware which is rated for the loading conditions of the installation and any possible short-term, unexpected overloading. Never exceed the rating of the hardware or equipment.

Consult a licensed, Professional Engineer regarding physical equipment installation. Adhere to all regulations regarding the safety and operation of flying equipment.

Installation (continued)

Cooling

This product's internal power amplifier produces some heat as a normal condition of operation. Allow a minimum of 4" (100mm) clearance at cabinet back for adequate ventilation, and avoid exposing to hot lights or direct sunlight. For ambient temperatures below 104°F (40°C) the fan will normally remain off. Between 104°F (40°C) and 122° (50°F) the fan will run for increasing periods of time. Above 130°F (55°C) the internal overheating protection will begin to operate. The unit will reduce its gain, and possibly mute. If the fan appears to be running constantly, try to reduce the ambient temperature to ensure full performance.

Keep anything that might restrict airflow away from the rear of the enclosure (i.e draperies, fabric, etc...).

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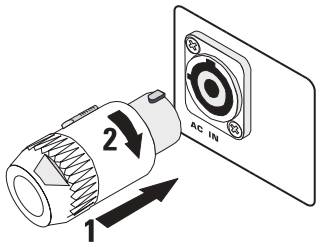
Do not install enclosures with their rear panels exposed to direct sunlight. Direct sunlight will heat the amplifier module and reduce its ability to produce full output. Install sunshades if the application merits.

Maximum ambient temperature for full performance to specification is 45° C. (113° F.).

Do not install enclosures where exposed to rain or other water sources. The enclosure is not weatherproof. Outdoor installations must provide protection from the elements.

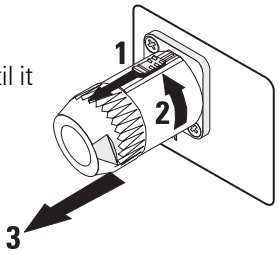
AC Mains



AC Mains Connection

Orient the PowerCon connector with the PowerCon socket located on the rear panel of the loudspeaker. It is keyed and will only fit into the socket when aligned properly. Insert the connector fully and rotate clockwise until the locking mechanism engages.

The correct AC line voltage is shown on the serial number label, on the rear panel. Connecting to the wrong line voltage may damage the amplifier or increase the risk of electric shock.



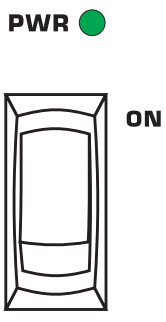
AC Mains Disconnection

To remove the connector, pull back on the metal locking tab and turn the connector counterclockwise until it stops, then pull to remove the connector form the socket.

Power Switch

Push in on the top of the rocker switch to apply AC mains power to the powered loudspeaker. Push in on the bottom of the rocker switch to turn the powered loudspeaker off.

When turned on, the blue Power indicator LED and the red LIM (limiter) indicator LED will illuminate; after a few seconds the red LIM indicator will extinguish.



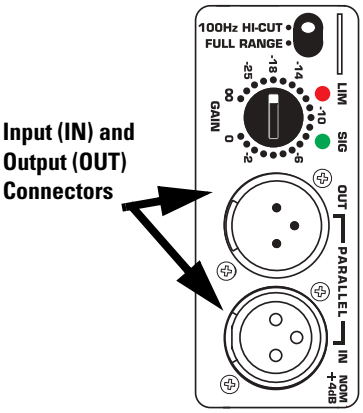
LED Power Indicator

The blue LED Power indicator will illuminate when the AC Power switch is in the "ON" position, the AC mains power cord is connected properly, and the AC mains are functioning properly. The LED Power indicator will extinguish when the AC Power switch is in the "off" position or AC mains power has been removed from the loudspeaker.

If the Power indicator does not illuminate when the Power switch is placed in the "on" position, verify the AC mains line cord is properly attached to the loudspeaker and plugged into the AC outlet. Verify the outlet is functioning properly.

If the AC mains cordset is serviceable and the AC mains outlet is operating properly, but the loudspeaker fails to operate, the loudspeaker may require servicing. Contact QSC's Technical Services department.

Input/Output Connections



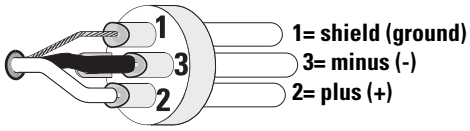
The MD has a balanced 3-pin female XLR input marked IN and a male XLR output connector marked OUT. The IN and OUT connectors are wired in parallel, enabling connection of multiple enclosures in a "daisy-chain" fashion.

Balanced connections are recommended for less AC hum and interference, especially with long cable runs. Unbalanced connections may be suitable for short cables. The signal's source impedance should be less than 600 ohms.

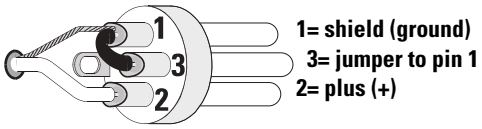
Input connection

Insert the male XLR input into the jack marked IN. Ensure the connector is fully seated. The input impedance is 12k ohm balanced or 6k ohm unbalanced.

Balanced inputs: Connect to the plug as shown.



Unbalanced inputs: Connect to the plug as shown. Pin 3 and pin 1 must be connected with a jumper as shown.



Output Connection

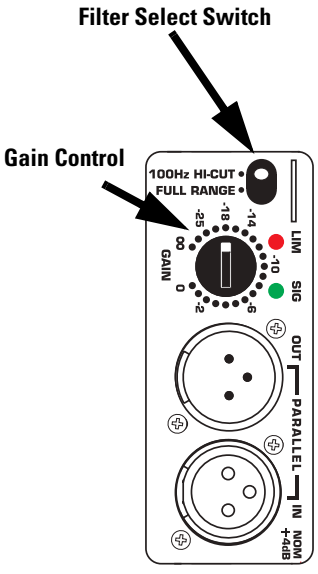
Insert the female XLR connector into the jack marked OUT. Connect the other end of the cable to the next down-stream audio device's input connector.

Gain Control

The Gain control is recessed and can be adjusted with a small screwdriver or flat tool. Turn the gain control clockwise to increase gain and counter clockwise to decrease gain. The attenuation in dB (from maximum) is shown on the label.

The Gain control is marked in dB of attenuation. There are 21 detents for repeatable adjustments. The upper 14 steps are about 1 dB each, and settings should normally be made within this range. The range below -14 dB should not be used for normal program levels, as the input headroom could be exceeded, but can be used for testing at reduced levels. At the minimum setting, the signal is completely cut off.

Filter Select Switch



Above the Gain control is a small toggle switch that selects either Full Range input or applies a 100 Hz Hi-Cut filter to the input signal.

100 Hz Hi-Cut Setting (Lo-Pass Setting)

Engages an internal fourth-order crossover filter. It is designed to work with the 100 Hertz Lo-Cut filter on two-way, powered MD loudspeakers, forming an acoustically matched crossover without external processing.

Full Range Setting

Use the Full Range setting for applications with upstream filtering or signal processing. This allows tailoring of the sound to your tastes using your signal processing. The input signal must be appropriately processed for the enclosure (i.e. low frequency signal only). Do not apply a full-range audio input as the internal high-frequency protection circuit may shut down the amplifier.

Do not apply an input signal with high-frequency content when Full Range is selected!

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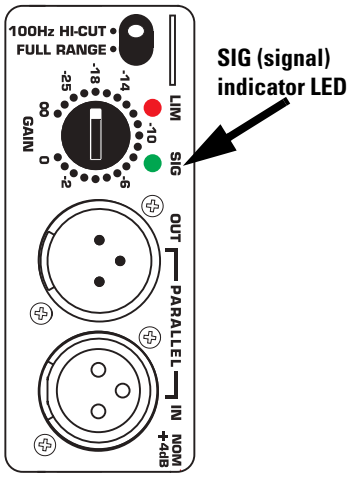
SIG (Signal) Indicator LED

The green SIG (signal) indicator alerts the user to the presence of an input signal to the MD loudspeaker.



Normal Indication

The green SIG indicator illuminates when the input signal exceeds -25 dB.

If No Indication

Check Gain settings and increase gain if necessary. Check input connections and audio source for signal. If the red LIM LED illuminates, refer to the LIM indicator section, below.

Abnormal Indication

If the green SIG LED illuminates with no signal input, there may be system oscillations or some other malfunction. Disconnect the input or fully reduce the gain. If the green SIG LED remains on, the amp may need servicing.

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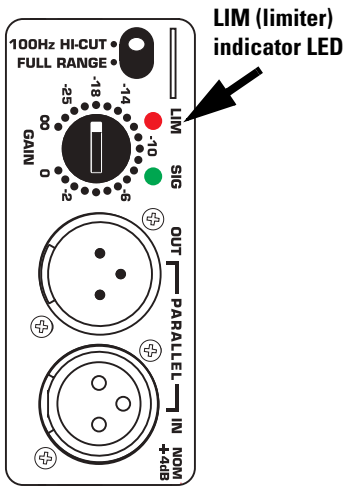
LIM (Limiter) Indicator LED

The red LIM indicator alerts the user to several abnormal conditions within the MD loudspeaker:



Continuous Bright Red Light

- Indicates protective mute mode.
- The speaker normally mutes for several seconds after applying power, after which the light should go out, and sound should be heard.
- If the speaker enters Mute during operation, it has either overheated or developed a fault.
- Overheating should correct itself within 1-2 minutes, after which sound should resume. See below for a full explanation of thermal protection.
- Short periods of muting could indicate excessive high-frequency program with subwoofer set at Full-Range. If this is not the case, it could indicate a component fault; remove AC power and have the speaker serviced.

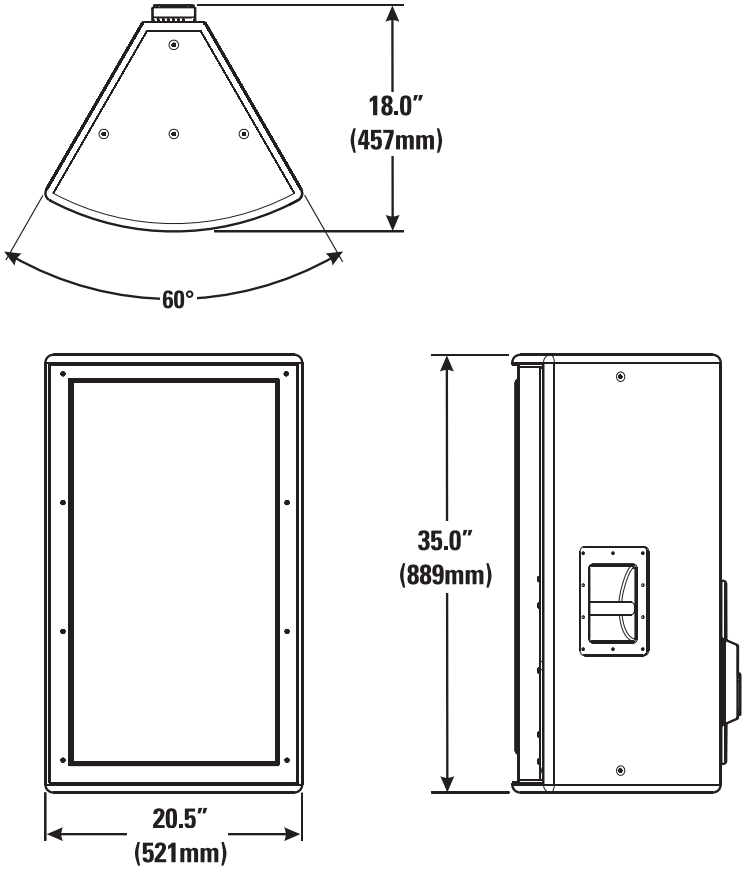
Momentary Bright Red Flashes

- During operation, bright flashing indicates clipping (overdrive distortion).
- This is normally due to excessive volume, and will likely be accompanied by audible distortion.
- If the speaker mutes repeatedly during peaks, there may be a component fault. AC power should be removed and the speaker serviced.

Continuous Half-Bright Light

- Indicates that the internal limiter is reducing gain, due to prolonged clipping and/or excessive temperature.
- After several seconds of severe clipping, the limiter will reduce power to protect the speaker and improve the sound. This results in a steady, half-bright red indication. Any further clipping will still result in bright flashes on top of the steady half-bright indication. When the program level is reduced, the limiter will clear after several seconds, and the red indicator will go out.
- If the power module overheats despite fan operation, the first response is to trigger limiting, to reduce volume and limit further temperature rise. This results in a steady half-bright illumination that does not clear even after reducing program level. It may take several minutes for temperature to drop and clear the limiter. During this time, the exposed heat sink will feel uncomfortably hot to the touch and the fan should be running. If overheating continues, the amplifier will ultimately mute, resulting in a full-bright red indication. When muting clears, the amplifier will resume operation, with thermal limiting still active until it further cools off.
- Overheating is usually caused by excessive ambient temperature, since the internal temperature rise of the Class-D power module is relatively low. Protect the speaker from excessive temperatures, such as being placed over a heater vent, or allowing direct sunlight to impinge upon the heat sink surface.

Dimensions MD-LP115 and MD-LP118



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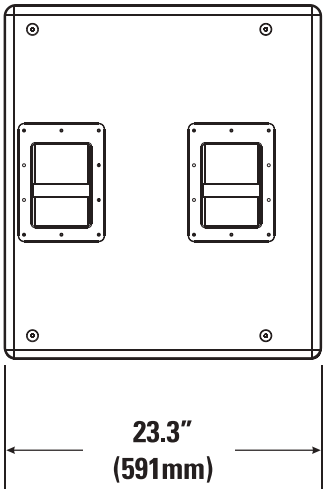
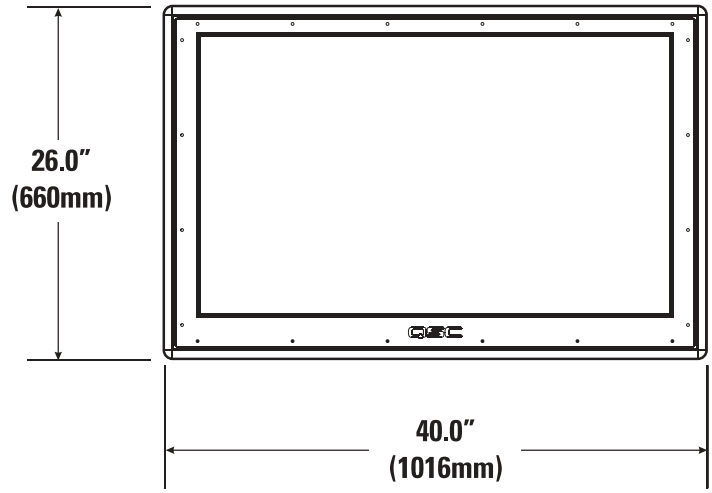
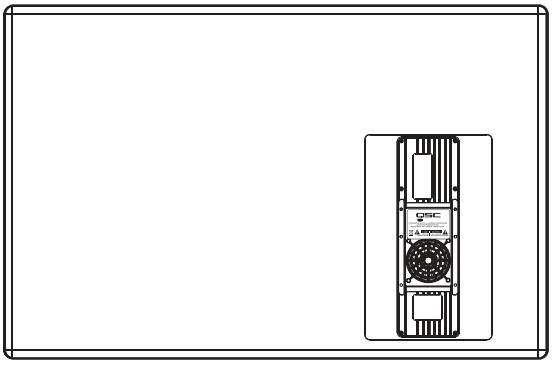
NOTE! Handles are provided on black-colored enclosures only! White-colored enclosures are not equipped with handles.

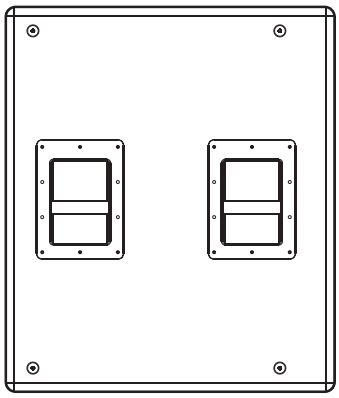
Dimensions MD-SP215

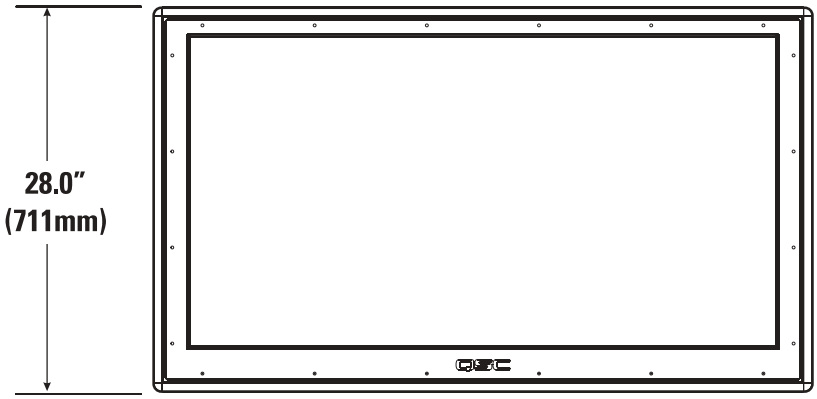


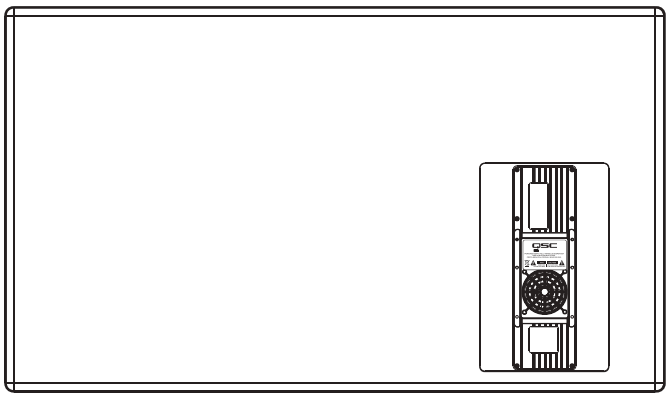




Dimensions MD-SP218







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Location of Pick Points

There are fifteen (15) load-rated pick points on MD-LP enclosures; four each on the top and on the bottom, two each on the sides, and three on the rear of the enclosure.

There are sixteen (16) load-rated pick points on MD-SP enclosures; four each on the top and on the bottom, and four each on the sides.

These pick points are indicated with arrowheads on the illustrations. Note the pick points on the cabinet bottom or sides are not shown, but are identical to those indicated on the cabinet top (MD-LP) or the side shown (MD-SP).

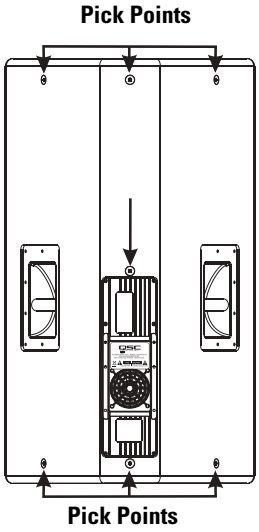
As shipped from the factory, each pick point has a strength-rated flat head bolt installed. These bolts are load bearing components of the enclosure. Do not remove these bolts except to replace a bolt with a forged-shoulder eye bolt. If a flat head screw is lost, contact QSC's Technical Services department for a replacement.

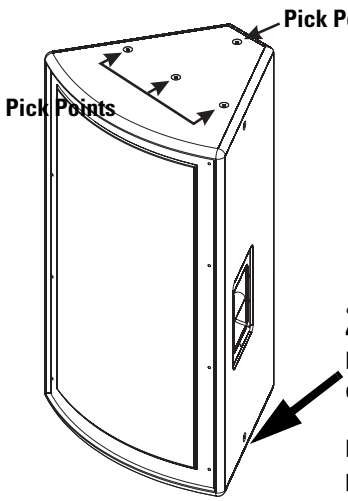
Ensure all pick-point fasteners are installed and tightened to 40 in-lb (4.519 N-m) to maintain enclosure's rated strength. Air leaks resulting from missing hardware will degrade the loudspeaker's performance.

Use only 3/8-inch, 16 threads per inch forged shoulder eye bolts, QSC part number SR-000096-00. Contact QSC Technical Services department for complete information.

Before placing, installing, rigging, or suspending any speaker product, inspect all hardware, suspension, cabinets, transducers, brackets and associated equipment for damage. Any missing, corroded, deformed, or non-load rated component could significantly reduce the strength of the installation, placement or array. Any such condition severely reduces the safety of the installation and should be immediately corrected. Use only hardware which is rated for the loading conditions of the installation and any possible short-term, unexpected overloading. Never exceed the rating of the hardware or equipment.

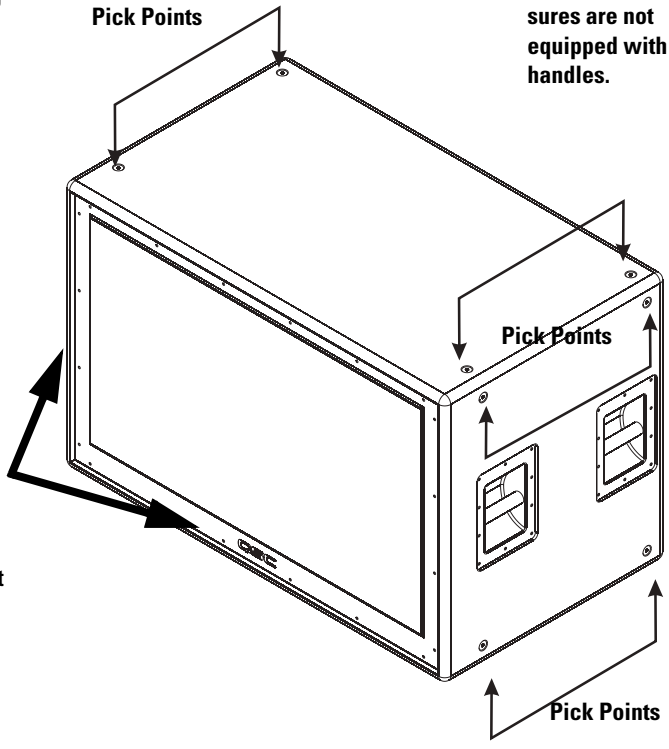
Consult a licensed, Professional Engineer regarding physical equipment installation. Adhere to all regulations regarding the safety and operation of flying equipment.





4 additional Pick Points located on enclosure bottom.

NOTE! Handles are provided on black-colored enclosures only! White-colored enclosures are not equipped with handles.



4 additional Pick Points located on enclosure bottom and 4 on the end not shown. No Pick Points on the rear of the MD-SP Series enclosures.

NOTE! Handles are provided on black-colored enclosures only! White-colored enclosures are not equipped with handles.

Specifications	MD-LP115	MD-LP118
Frequency Response, ±3dB	37-100 Hz	37-100 Hz
Frequency Range, -10dB	34-110 Hz	34-105 Hz
Maximum Peak SPL	127dB	128dB
Transducer Description	15-in. (381mm) long-throw woofer 4-in. (102mm) voice coil with aluminum demodulating ring	18-in. (457mm) long-throw woofer 4-in. (102mm) voice coil with aluminum demodulating ring
Amp Power	800 Watts	800 Watts
Input Sensitivity	$1.2V_{rms}$ (+4dB)	$1.2V_{rms}$ (+4dB)
Input Headroom/Clipping	$7.5V_{rms}$ (+19.5dB)	$7.5V_{rms}$ (+19.5dB)
Input Connector/Impedance	XLR female, 20k ohm balanced	XLR female, 20k ohm balanced
Output Connector	XLR male, wired in parallel with Input connector	XLR male, wired in parallel with Input connector
Controls, Indicators, and Adjustments	Gain control, 100 Hz Hi-cut filter switch, Clip/Limit (red LED), Signal presence (green LED), AC Power (blue LED)	
Protection, Agency certs.	Thermal limiting, On/Off muting, AC in-rush current limiting (<12A peak) FCC class B (conducted and radiated emissions), UL/CE listed	
AC Power Requirements	Configured at the factory for 120V or 240V nominal, 50/60 Hertz	

	AC Amperes	BTU[4]
Idle	<0.5 A	<100
1/8 Power[1]	2.5 A	570
1/3 Power[2]	5.0 A	1380
Full Power[3]	15.0 A	4010

Notes:
(1)1/8 power is typical of "maximum unclipped program levels".
(2)1/3 power represents "moderately clipped" operation.
(3)Full power only occurs for short peaks.
(4) BTU includes loudspeakers and amplifier.

AC Power Connector	Factory supplied cordset: Neutrik Powercon on 10' (3m) #18AWG 120V North American cordset	
Dimensions	20.5" (521mm) W, 35.0" (889mm) H, 18.0" (457mm) D Allow for 4.0" (100mm) of free space behind the enclosure to assure proper amplifier cooling	
Weight	99 lb/44.9 kg	100 lb/45.4 kg
Finish and Grill	Wear resistant textured paint finish with powder-coated perforated steel grill, black colored enclosures are supplied with handles and white colored enclosures are not supplied with handles. 15 load-rated pick points that accept 3/8-inch, 16 threads per inch forged shoulder eye bolts.	

Notes:

1- Maximum Peak SPL: Calculated by adding the loudspeaker's sensitivity (1W at 1m) to the peak power (dBw) of the amplifier provided.
2- Amplifier Power: The maximum sustained power at less than 1% clipping, averaged over the intended frequency range,
3- Input Sensitivity: The sine-wave input voltage required to reach amplifier clipping, measured within the frequency range used to determine Maximum Peak SPL, with the gain on "normal" and no gain reduction due to limiting.
4- Input Headroom/Clipping: Maximum input voltage.
5- Input Connector/Impedance: RF shunt capacitance should not reduce impedance by more than 30% at 20k Hz.

Specifications

	MD-SP215	MD-SP218
Frequency Response, ±3dB	27-100 Hz	26-100 Hz
Frequency Range, -10dB	25-110 Hz	24-110 Hz
Maximum Peak SPL	131.5dB	132.5dB
Transducer Description	Two 15-in. (381mm) long-throw woofers 4-in. (102mm) voice coil with aluminum demodulating ring	Two 18-in. (457mm) long-throw woofers 4-in. (102mm) voice coil with aluminum demodulating ring
Amp Power	1400 Watts	1400 Watts
Input Sensitivity	$1.2V_{rms}$ (+4dB)	$1.2V_{rms}$ (+4dB)
Input Headroom/Clipping	$7.5V_{rms}$ (+19.5dB)	$7.5V_{rms}$ (+19.5dB)
Input Connector/Impedance	XLR female, 20k ohm balanced	XLR female, 20k ohm balanced
Output Connector	XLR male, wired in parallel with Input connector	XLR male, wired in parallel with Input connector

EN

Controls, Indicators, and Adjustments

Gain control, 100 Hz Hi-cut filter switch, Clip/Limit (red LED), Signal presence (green LED), AC Power (blue LED)

Protection, Agency certs.

Thermal limiting, On/Off muting, AC in-rush current limiting (<12A peak)
FCC class B (conducted and radiated emissions), UL/CE listed

AC Power Requirements

Configured at the factory for 120V or 240V nominal, 50/60 Hertz

	AC Amperes	BTU[4]
Idle	<0.5 A	<100
1/8 Power[1]	3.5 A	798
1/3 Power[2]	7.0 A	1932
Full Power[3]	22.0 A	5881

Notes:
(1)1/8 power is typical of "maximum unclipped program levels".
(2)1/3 power represents "moderately clipped" operation.
(3)Full power only occurs for short peaks.
(4) BTU includes loudspeakers and amplifier.

AC Power Connector

Factory supplied cordset: Neutrik Powercon on 10' (3m) #18AWG 120V North American cordset

Dimensions

MD-SP215	MD-SP218
23.3" (591mm) D	24.0" (610mm) D
26.0" (660mm) H	28.0" (711mm) H
40.0" (1016mm) W	48.0" (1219mm) W

Allow for 4.0" (100mm) of free space behind the enclosure to assure proper amplifier cooling

Weight

MD-SP215	MD-SP218
190 lb/86.2 kg	210 lb/95.3 kg

Finish and Grill

Wear resistant textured paint finish with powder-coated perforated steel grill, black colored enclosures are supplied with handles and white colored enclosures are not supplied with handles. 16 load-rated pick points that accept 3/8-inch, 16 threads per inch forged shoulder eye bolts.

Notes:

1- Maximum Peak SPL: Calculated by adding the loudspeaker's sensitivity (1W at 1m) to the peak power (dBw) of the amplifier provided.
2- Amplifier Power: The maximum sustained power at less than 1% clipping, averaged over the intended frequency range,
3- Input Sensitivity: The sine-wave input voltage required to reach amplifier clipping, measured within the frequency range used to determine Maximum Peak SPL, with the gain on "normal" and no gain reduction due to limiting.
4- Input Headroom/Clipping: Maximum input voltage.
5- Input Connector/Impedance: RF shunt capacitance should not reduce impedance by more than 30% at 20k Hz.

Warranty (USA only; other countries, see your dealer or distributor)

Disclaimer

QSC Audio Products, Inc. is not liable for any damage to any other equipment that is caused by negligence or improper installation and/or use of this loudspeaker product.

QSC Audio Products 3 Year Limited Warranty

QSC Audio Products, Inc. ("QSC") guarantees its products to be free from defective material and / or workmanship for a period of three (3) years from date of sale, and will replace defective parts and repair malfunctioning products under this warranty when the defect occurs under normal installation and use - provided the unit is returned to our factory or one of our authorized service stations via pre-paid transportation with a copy of proof of purchase (i.e., sales receipt). This warranty provides that the examination of the return product must indicate, in our judgment, a manufacturing defect. This warranty does not extend to any product which has been subjected to misuse, neglect, accident, improper installation, or where the date code has been removed or defaced. QSC shall not be liable for incidental and/or consequential damages. This warranty gives you specific legal rights. This limited warranty is freely transferable during the term of the warranty period.

Customer may have additional rights, which vary from state to state.

In the event that this product was manufactured for export and sale outside of the United States or its territories, then this limited warranty shall not apply. Removal of the serial number on this product, or purchase of this product from an unauthorized dealer, will void this limited warranty.

Periodically, this warranty is updated. To obtain the most recent version of QSC's warranty statement, please visit www.qscaudio.com.

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