Pronomic SPS-1 Boxenstative

ArtNr.: 00016444, 00016445, 00085601, 00090585

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Version: 06.2024

Pronomic SPS-1 speaker stands

ArtNo.: 00016444, 00016445, 00085601, 00090585

Thank you for purchasing our speaker stand. To ensure that you are fully satisfied with this product, please read and understand this instruction manual carefully before using our product. Keep these operating instructions in a safe place. The operating instructions must be passed on to all subsequent users.

Please observe the safety instructions!

⚠ WARNING The signal word WARNING indicates dangers that could lead to serious injury if precautions are not taken.

⚠ NOTE All personal formulations in these operating instructions are to be regarded as gender-neutral.

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⚠ WARNING

Detailed safety instructions:

Please observe the following safety instructions to avoid malfunctions, damage or injury:

- These items are not children's toys and are not recommended for children under 3 years of age. Do not allow your children to play with the products unsupervised.
- Please do not misuse the speaker stand, e.g. as a tool, staircase, etc. and only load the stand with the maximum weight of 50 kg (centric load capacity). When using speaker towers, it is necessary to ensure that the stand cannot tip over.
- When setting up, make sure that there are no objects or limbs between the poles. Improper handling can lead to trapped limbs.
- The legs of the speaker stand must be far enough apart to prevent it from tipping over. The stand is only intended for use on level and firm ground.
- Please always secure the tube with the appropriate split pin.
- Before use, carry out a visual inspection for mechanical wear. Pay particular attention to deformed tubes and struts, chipped clamps or worn rivets. Damaged stands must NOT be used.

All technical data and appearances are subject to change without prior notice. All information was correct at the time of printing. Musikhaus Kirstein GmbH accepts no liability for the accuracy or completeness of the descriptions, photos or statements contained in this manual. Printed colors and specifications may differ slightly from the product.

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THRASHv2

2-WAY POWERED LOUDSPEAKER SERIES

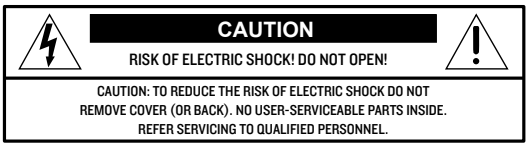
OWNER'S MANUAL

MACKIE.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. 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.
14. This apparatus shall not be exposed to dripping or splashing, and no object filled with liquids, such as vases or beer glasses, shall be placed on the apparatus.
15. Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.



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

The exclamation point within an equilateral triangle is intended to alert the user of the prescence of important operating and maintaining (servicing) instructions in the literature accompanying the appliance.

16. **NOTE:** This equipment has been tested and found to comply with the limits for a Class A 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 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, which can be determined by turning 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/TV technician for help.

    WARNING: Operation of THRASH in a residential environment could cause radio interference.

    CAUTION: Changes or modifications to this device not expressly approved by LOUD Audio, LLC could void the user's authority to operate the equipment under FCC rules.

17. This apparatus has been designed with Class-I construction and must be connected to a mains socket outlet with a protective earthing connection (the third grounding prong).
18. The MAINS plug or an appliance coupler is used as the disconnect device, so the disconnect device shall remain readily operable.
19. The equipment complies with FCC/IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. The equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

    Cet appareil est conforme aux limites d'exposition aux radiations de la FCC/IC RSS-102 énoncées pour un environnement non contrôlé. Il doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.
20. The use of apparatus is in tropical and/or moderate climates.
21. The maximum ambient temperature during use of the appliance must not exceed 0–45° C // 32–113° F.
22. Operation frequency: 2402MHz – 2480MHz
23. RF POWER = <4dBm
24. This apparatus does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

    CAN ICES-003(A)/NMB-003(A)

    ATTENTION — *Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant las limites applicables aux appareils numériques de class A/de class B (selon le cas) prescrites dans le réglement sur le brouillage radioélectrique édicté par les ministere des communications du Canada.*
25. This device complies with Part 15 of the FCC Rules [and contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s)]. Operation is subject to the following two conditions:
    (1) this device may not cause harmful interference, and
    (2) this device must accept any interference received, including interference that may cause undesired operation.

    L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
    (1) l'appareil ne doit pas produire de brouillage, et

    (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
26. Exposure to extremely high noise levels may cause permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a period of time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the permissible noise level exposures shown in the following chart.

    According to OSHA, any exposure in excess of these permissible limits could result in some hearing loss. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels use hearing protectors while the equipment is in operation. Ear plugs or protectors in the ear canals or over the ears must be worn when operating the equipment in order to prevent permanent hearing loss if exposure is in excess of the limits set forth here:

Duration, per day in hours	Sound Level dBA, Slow Response	Typical Example
8	90	Duo in small club
6	92	
4	95	Subway Train
3	97	
2	100	Very loud classical music
1.5	102	
1	105	The dogs barking at the mailman
0.5	110	
0.25 or less	115	Loudest parts at a rock concert

WARNING — To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

CAUTION — To prevent electric shock hazard, do not connect to mains power supply while grille is removed.

Correct disposal of this product: This symbol indicates that this product should not be disposed of with your household waste, according to the WEEE directive (2012/19/EU) and your national law. This product should be handed over to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, or your household waste disposal service.

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Chapter 1 : Welcome

Introduction

Hello everyone! This is the THRASH12V2 and THRASH15V2 Owner's Manual. This document contains detailed information about the THRASHV2 loudspeaker series ... we hope you like it!

Mackie THRASHV2 are powered loudspeakers with all the guts, grit, and smarts to make yourself heard, including Feedback Eliminator, voicing modes, and Bluetooth®.

No more getting drowned out. You deserve better. THRASHV2 brings the raw power and advanced technology of a Mackie powered loudspeaker within reach for everyone.

Punch through the noise with a 1300W amp housed in a rugged frame with metal handles. Connect to a mic/line combo input that can handle any situation. Sound great anywhere with selectable voicing modes and Feedback Eliminator.

You can even take THRASHV2 wireless with Bluetooth® streaming and speaker linking.

So there you have it. Again, we hope you like it. If you have any questions or comments about this Owner's Manual (or other Mackie documentation), please don't hesitate to contact us:

- www.mackie.com/support-contact

Features

- 1300W amplifier, 1" tweeter, and 12" woofer for in-your-face sound [THRASH12V2]
- 1300W amplifier, 1" tweeter, and 15" woofer for in-your-face sound [THRASH15V2]
- Rugged frame with protective grille and carry handles
- Selectable voicing modes and Feedback Eliminator
- Bluetooth® streaming and speaker linking
- Combo input for mic and line signals
- Built-in overload limiter
- XLR mix output (including Bluetooth® signal and input)
- Speaker bags, poles, and stands sold separately

Things to Remember

- Never listen to loud music for prolonged periods.
  Please see the Safety Instructions on page 2 for information on hearing protection.
- Save the shipping boxes and packing materials! You may need them someday. Besides, the cats will love playing in them and jumping out at you unexpectedly. Remember to pretend like you are surprised!
- Save your sales receipt in a safe place.

About This Guide

This guide is designed to be accessible, with subsections as complete as practical to minimize having to electronically leaf back and forth looking for the whole story. The entire manual does not need to be read to figure out how to use a THRASHV2 Series loudspeaker.

As the saying goes, "a picture tells a 1000 words". With that thought in mind, we added quite a few illustrations, screenshots, and other images throughout to accompany the text.

This icon marks information that is critically important or unique! For your own good, read and remember them.

There's an illustration of a microscope, so, of course, you're going to get more detailed information when you see this little guy. There are explanations of features and practical tips listed here.

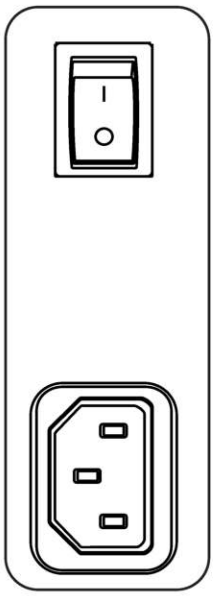
It's a good idea to pay attention to text displayed next to a note icon, as this icon draws attention to certain features and functions relating to the usage of a THRASHV2 loudspeaker.

Getting Started Quickly

The following steps will help you set up the THRASHV2 loudspeaker quickly. If you desire a more thorough walk-through of THRASHV2, there is a wealth of information in the following pages!

1. Read and understand the Important Safety Instructions on page 2.
2. Make all initial connections with the power switches OFF on all equipment.
   Make sure the master volume, level and gain controls are all the way down.
3. If not using a subwoofer, connect the outputs from the mixing console (or other signal source) to the inputs on the rear panel of the loudspeakers.
4. If using a subwoofer, connect the outputs from the mixing console (or other signal source) to the inputs on the rear panel of the subwoofer, then connect the high pass outputs from the subwoofer to the inputs of the loudspeakers.
5. Push the line cord securely into the subwoofer's/loudspeaker's IEC connectors and plug the other ends into grounded AC outlets. The subwoofer/loudspeaker may accept the appropriate voltage as indicated near the IEC connector.
6. Turn the mixer (or other signal source) on.
7. Turn the subwoofer on.
8. Turn the loudspeakers on.
9. Be sure that the volume of the input is the same as it would be during normal use.
10. Start the signal source and raise the mixer's main L/R fader up to a comfortably loud listening level.

Chapter 2 : THRASHV2 Loudspeaker Series Rear Panel Features



Power Switch

Press the top side of this rocker switch inwards to turn on the loudspeaker. Press the bottom side of this rocker switch inwards to turn off the loudspeaker.

In order to reduce the possibility of any turn-on or turn-off thumps and other noises generated by any equipment from coming out of the speakers, the devices should be turned on in order from the initial input to the final output.

Typically, the mixer (or other signal source) would be turned on first, subwoofers next, and loudspeakers last. As such, the loudspeakers would also be turned off first, followed by the subwoofers, then the mixer (or other signal source). System routing may vary, but the principle remains the same.

Power Connector

This is a standard 3-prong IEC power connector. Connect the detachable power cord (included in the packaging with the loudspeaker) to the power receptacle, and plug the other end of the power cord into an AC outlet.

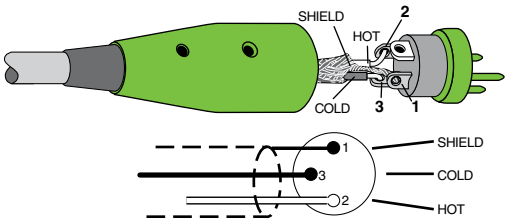
Make sure that the voltage of the connected electrical supply is matched to the AC voltage indicated on the rear panel (near the IEC input).

Warning: Disconnecting the plug's ground pin is dangerous. Don't do it!

XLR and 1/4" Combo Input Jack

The input channel may accept a balanced mic signal using an XLR connector.

It is wired as follows, according to standards specified by the AES (Audio Engineering Society).



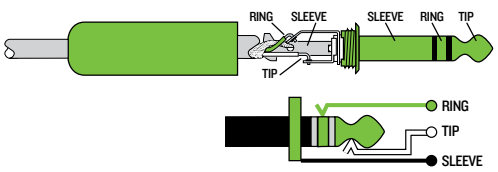
XLR Balanced Wiring:

Pin 1 = Shield (ground)
Pin 2 = Positive (+ or hot)
Pin 3 = Negative (– or cold)

NEVER connect the output of an amplifier directly to a THRASHV2's input jack. This could damage the input circuitry and we wouldn't want that now, would we?

In addition to accepting a balanced mic signal using an XLR connector, this input channel may also accept a 1/4" line-level signal driven by balanced or unbalanced sources.

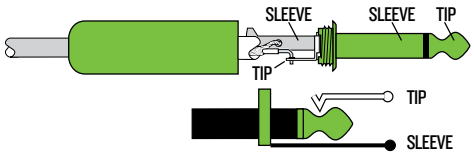
To connect balanced lines to these inputs, use a 1/4" Tip-Ring-Sleeve (TRS) plug. "TRS" stands for Tip-Ring-Sleeve, the three connection points available on a stereo 1/4" or balanced phone jack or plug. TRS jacks and plugs are used for balanced signals and are wired as follows:



1/4" TRS Balanced Mono Wiring:

Tip = Hot (+)
Ring = Cold (–)
Sleeve = Shield

To connect unbalanced lines to these inputs, use a 1/4" mono (TS) phone plug, wired as follows:



1/4" TS Unbalanced Mono Wiring:

Tip = Hot (+)
Sleeve = Shield

NEVER connect the output of an amplifier directly to a THRASHV2's input jack. This could damage the input circuitry and we wouldn't want that now, would we?

Mic / Line Switch

Because an XLR connector may be connected to a mic or an instrument, this switch adjusts the channel's input sensitivity to optimize it for mic or line-level signals. If a mic is connected, this switch should be engaged. Here, the input impedance is optimized for standard dynamic microphones. If an instrument is connected (via XLR), this switch should be disengaged. Regardless if it's a mic, instrument, or line-level signal, the gain knob should be set to ~12:00 ["U"]. The input impedance is optimized for line-level signals: –10 dBV for consumer equipment, +4 dBu for professional equipment. The setting of this switch will not affect a 1/4" input; XLR only.

Input Gain Knob and SIG/OL LED

If you haven't already, please read the "Getting Started Quickly" section on page 6. Setting the gain correctly will ensure that the preamplifier's gain is not too high, where distortion could occur, and not too low, where the quieter, exquisitely-delicate passages might be lost in background noise.

In short, the gain knob allows signals from the outside world to be adjusted to run at optimal internal operating levels.

The mic preamp gain ranges from 0-60 dB for the XLR input and when the mic-line switch is engaged [Mic]. It ranges from MIN (Off) to MAX (+20 dB of gain) when the mic-line switch is disengaged [Line], regardless of whether it's an XLR or 1/4" input.

The ideal setting of the gain knob is ~12:00 ["U"] for optimal sound and performance. This is regardless of mic or line input. That said...

Keep in mind that these suggestions are for reference only and may need to be raised or lower.

The dual-colored SIG/OL LED will illuminate green when the input signal is present, indicating signal (–36 dBu). However, it will illuminate red when the input signal is clipping (+18 dBu), hence OL ("overload"). It's okay for it to blink red occasionally, but if it blinks frequently or lights continuously, turn down the input gain knob until it's solid green or only blinks occasionally.

This signal referenced is post-preamp and pre-DSP for both channel one and the Bluetooth signal.

Mix Out Jack

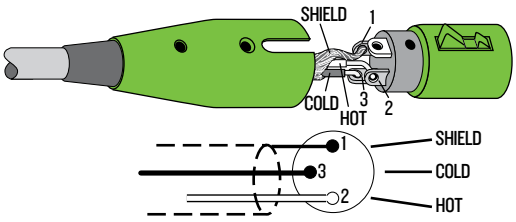
This is a male XLR-type connector that produces a line-level summed-mono mix of all inputs (including Bluetooth). Use it to daisy-chain several THRASHV2 loudspeakers together off the same signal source(s) or add a subwoofer.

This output level is NOT affected by the main volume level and is post-channel level gain, but pre-DSP and pre-main level. It is a pure analog path.

It is wired as follows, according to standards specified by the AES (Audio Engineering Society):

Balanced XLR Output Connector:

Pin 1 – Shield (ground)
Pin 2 – Positive (+ or hot)
Pin 3 – Negative (– or cold)



See page 23 to learn more about daisy-chaining THRASHV2 loudspeakers.

Speaker Level Knob

The speaker level knob adjusts the overall signal level at the input to the built-in power amplifiers. It ranges from Off (−∞) to MAX (maximum gain).

THRASHV2 loudspeakers are designed to operate with a 0 dB signal when all knobs are at the center (12:00) position. Turning the knob past to MAX allows up to +6 dB of additional gain.

THRASHV2 loudspeakers have a built-in limiter that helps to prevent the amplifier outputs from clipping or overdriving the transducers. The limit indicator illuminates red when the limiter is activated. It's okay for it to blink occasionally, but if it blinks frequently or lights continuously, turn down the speaker level knob until it only blinks occasionally.

Excessive limiting may lead to overheating, which in turn trips the thermal protect circuitry and interrupts the performance. See 'Thermal Protection' on page 15 for more information.

Voicing Mode

The voicing mode allows you to change the THRASHV2's voicing to tailor it to best suit your particular application. Press the voicing mode button repeatedly until the LED of the voicing mode you desire is illuminated.

The four voicing modes are as follows:

• **FLAT Voicing Mode** – No question about this speaker mode; it's flat! Flat mode keeps THRASHV2 transparent, projecting the sound in its purest form. This plug-and-play mode is perfect for FOH professionals, singer-songwriters, and listening to mastered music. It is optimized to maintain tonal balance at peak output volume.

• **DJ Voicing Mode** – This mode is full range, but focuses on increased bass and brilliant high frequencies. This is the place to start for most DJ / music playback applications.

• **LIVE Voicing Mode** – Mackie take their reputation into a new generation with THRASHV2. It delivers enhanced sound quality, more volume, and modern voicing that makes vocals pop with midrange clarity. Used in live mode, THRASHV2 delivers flawless sound for vocal performances, speeches, and even karaoke. Additionally, this mode works well for singer-songwriters, as it features an upper bass parametric scoop to reduce unwanted low frequency color and adds boost to upper mid-range and high frequencies.

• **WEDGE Voicing Mode** – Wedge mode was tailored to reduce excess low frequency output when coupled with the ground, while also reducing mid-range bite for the artist(s). Putting your foot up on the monitor won't improve your sound, but wedge mode will.

This mode should only be engaged when the speaker is in its monitor/wedge orientation on a stage or floor... if not, the low-end will sound very lean.

• **À La Mode** – This mode features any of the aforementioned voicing modes, but with a scoop of ice cream.

Feedback Eliminator

The multi-band feedback eliminator hunts down offending feedback frequencies and applies up to 12 notch filters automatically to destroy feedback and maximize gain prior to feedback. This is a great tool for when an engineer is not present.

• **Off [Default]** – The feedback eliminator is not engaged. If filters have been applied, this setting will retain its current filter settings if there are any, but they will not be engaged until it is turned back on.

• **On** – When the automatic feedback eliminator is turned on, scanning occurs continuously. The 12 filters will engage when feedback is present. If feedback is not identified, it will continue to look for (and replace) those bands. If feedback is identified on an existing filter, the notch will deepen to further destroy the offending feedback frequency. Pretty cool, huh?! The LED will illuminate green when engaged.

Palm Reader

The THRASHV2 loudspeaker series is unique in that they also double as a palm reader!

In order to read palms, place the hands gently on each side of the loudspeaker close to where the chalk outlines are displayed (see below).

Once they're placed in the correct spot, a warm, tingling sensation should be felt on the palms of your hands. Additionally, surrounding each hand will be slow, pulsing blue LEDs. Once the THRASHV2 loudspeaker has completed the palm reading, the LEDs will stop pulsing and remain solid blue. At this point, the palms may be removed.

Ok, that's "how" to do it, but what about what it captures... and where to find/see the results...?

Like most palm readings, THRASHV2 also focuses on four elements:

- Heart, including romance, emotional stability, and overall perspective on love.
- Head, including intelligence, mental focus, learning style, and communication skills.
- Life, including physical vitality, stamina, and energy levels.
    - The age old question of "how long will I live?" – or the more melancholic version of "when will I die?" – is not displayed since THRASHV2 does not know. Nobody knows.
- Fate, including life, career, and destiny.

Not only are the palms read, but the actual shape of the hands is, as well. THRASHV2 hand shape readings focus on four elements. These represent the four following core character traits:

- Earth: Practical, reliable, and grounded.
- Air: Intellectual, communicative, and analytical.
- Fire: Passionate, energetic, and ambitious.
- Water: Emotional, intuitive, and creative.

After a few minutes of digesting the information gathered from the palms, the results are slowly revealed via ticker tape. The ticker tape outcome may be procured from the "Firmware Update Only" USB-C Port (see page 14).

Both hands must be utilized in order for the palm reader to work.

Note that the hand-drawn chalk outlines do not exist on the actual product.
These are there simply to show the general location of where the hands should be placed.

Taking part in – or not taking part in – palm readings has no effect on performances.

None of that is real. We repeat: NONE OF THAT IS REAL. The loudspeaker does not read palms. It plays audio. The THRASHV2 loudspeaker is exceptionally good at many things, but divination is not one of them. If the loudspeaker tells you that you are destined to become a professional goat herder, please consult a qualified goat herding professional before making any career changes.

Bluetooth / Pair

While not a "physical" connection, Bluetooth could still be considered a stereo channel input. The volume is raised and lowered via the device.

This is how to connect your device to the THRASHV2 loudspeaker via Bluetooth! Read on...

Upon powering up the THRASHV2, the Bluetooth function is either:

(1) In sleep mode. See 'Pairing and connecting for the first time' (below) or...

(2) ...Paired and connected. See 'Previously paired and connected devices' (on the following page).

Pairing and connecting for the first time:

To enter pairing mode, press and release the pair switch. The LED will illuminate and slow flash blue for approximately 60 seconds while in pairing mode. [The LED will continue to flash until it has successfully paired and connected, but will stop after roughly a minute.].

While THRASHV2 is in pairing mode, simultaneously scan for Bluetooth devices on your device. You should see THRASHV2 appear in the list of "available devices". Select it by tapping it. From there, your Bluetooth device should indicate that it is successfully connected. Additionally, the pair button will stop flashing and remain solid blue. If it does not, start the pairing process again, and make sure that THRASHV2 and your device are both in pairing mode at the same time.

Previously paired and connected devices:

The Bluetooth connection will disconnect if it's out of range or if THRASHV2 is powered off. Previously paired and connected devices will automatically reconnect and the pair button will once again illuminate a brilliant blue.

NOTE

THRASHV2 loudspeakers will continue to auto-connect on every power-up unless cleared. In order to unpair and/or unlink two THRASHV2 loudspeakers, press and hold the 'BT/LINK' momentary button/LED down on one of the THRASHV2 loudspeakers. Release the button when that LED turns off, as this indicates success (approximately ~12-ish seconds). The other THRASHV2 will automatically unlink and the LEDs on both units will turn off. To remedy this, on your phone, tablet, or other Bluetooth device, you will need to 'forget device' in the Bluetooth settings, then re-pair in order to regain communication and functionality. The status of the feedback eliminator and voicing mode will remain unchanged.

VERY IMPORTANT

The Bluetooth connection may disconnect when affected by electrostatic discharge (ESD) or electrical fast transients (EFT). If this occurs, manually reconnect the Bluetooth connection.

VERY IMPORTANT

If a phone – or two different phones – have been paired via Bluetooth with two THRASHV2 loudspeakers, they will not link. The options are either (1) one phone connected via Bluetooth and THRASHV2 loudspeakers may be linked or (2) two phones connected via Bluetooth to two different THRASHV2 loudspeakers and they may not be linked.

A CLOSER LOOK

If a THRASHV2 loudspeaker is connected to a device via Bluetooth AND is linked with a secondary THRASHV2 loudspeaker, the LED on the primary loudspeaker will illuminate solid blue, while the LED on the secondary loudspeaker will illuminate solid green. Now, if two loudspeakers are linked, and neither is connected via Bluetooth, the LEDs on both loudspeakers will illuminate solid green.

Speaker Link

Two THRASHV2 loudspeakers may either be linked together or separate (i.e. not linked).

To link:

In order to link two THRASHV2 loudspeakers, press and hold the 'Link' switch down for approximately three seconds on the primary THRASHV2 loudspeaker until the green LED begins slow-flashing.

Several seconds later, the secondary THRASHV2 will automatically "see" the primary loudspeaker, handshake, and link. The LEDs on both units will stop flashing and remain solid (blue on the primary speaker, green on the secondary speaker). This indicates great success!

NOTE

THRASHV2 loudspeakers will continue to auto-link on every power-up unless cleared. Continue on to the next page to see how to clear/unlink THRASHV2 loudspeakers.

To unlink:

In order to unpair and/or unlink two THRASHV2 loudspeakers, press and hold the 'BT/LINK' momentary button/LED down on one of the THRASHV2 loudspeakers. Release the button when that LED turns off, as this indicates success (approximately ~12-ish seconds). The other THRASHV2 will automatically unlink and the LEDs on both units will turn off. The status of the feedback eliminator and voicing mode will remain unchanged.

If a phone – or two different phones – have been paired via Bluetooth with two THRASHV2 loudspeakers, they will not link. The options are either (1) one phone connected via Bluetooth and THRASHV2 loudspeakers may be linked or (2) two phones connected via Bluetooth to two different THRASHV2 loudspeakers and they may not be linked.

If a THRASHV2 loudspeaker is connected to a device via Bluetooth AND is linked with a secondary THRASHV2 loudspeaker, the LED on the primary loudspeaker will illuminate solid blue, while the LED on the secondary loudspeaker will illuminate solid green. Now, if two loudspeakers are linked, and neither is connected via Bluetooth, the LEDs on both loudspeakers will illuminate solid green.

Only two loudspeakers may be linked together at a time. If multiple pairs of loudspeakers need to be linked, keep all other loudspeakers powered off and power on only the two you want to link.

Firmware Update Only [USB-C Port]

This USB-C Port is for firmware updates only. It does not charge devices, play back music, or hold the secrets of the universe.

Will something "bad" occur if you happen to connect a phone, tablet, or other device to this port? Will the device and/or loudspeaker fry and become unusable? Unlikely, but you don't want to try and find out, thereby breaking the warranty, do you?

Factory Reset

Let's also talk factory resets since it may be necessary to reset THRASHV2 to its factory settings.

THRASHV2 doesn't have a true factory reset, per se, but it is possible to wipe its memory of previously paired devices, as well as linked loudspeakers. It was explained on the previous two pages, but we'll state it again, because why not?!

In order to unpair and/or unlink two THRASHV2 loudspeakers, press and hold the 'BT/LINK' momentary button/LED down on one of the THRASHV2 loudspeakers. Release the button when that LED turns off, as this indicates success (approximately ~12-ish seconds). The other THRASHV2 will automatically unlink and the LEDs on both units will turn off. To remedy this, on your phone, tablet, or other Bluetooth device, you will need to 'forget device' in the Bluetooth settings, then re-pair in order to regain communication and functionality. The status of the feedback eliminator and voicing mode will remain unchanged.

Chapter 3 : Protection Circuitry

Introduction

THRASHV2 loudspeakers employ a built-in limiter for less distortion at peak levels. A dynamic bass response circuit provides optimal low frequency response regardless of overall output level. Additional protection includes automatic thermal shutdown should the amp overheat. However, with Class-D amp technology, which is highly-efficient, this should never be a problem.

The protection circuits are designed to protect the loudspeakers under reasonable and sensible conditions. Should you choose to ignore the warning signs [e.g. excessive distortion], you can still damage the woofer in the loudspeaker by overdriving it past the point of amplifier clipping. Such damage is beyond the scope of the warranty.

Limiting

Let's take a peek under the hood at the polymer compression driver. Compared to other available drivers, these provide a substantially smoother high-frequency response which results in a studio monitor level of accuracy and clarity. Furthermore, these drivers offer an insanely smooth transient response behavior. Yes, we, too, are fans of our own products!

Continuing on, the driver has its own compression circuit which helps protect it from damaging transient peaks. The compressor is designed to be transparent and is not noticeable under normal operating conditions.

Overexcursion Protection

A subsonic filter circuit just prior to the power amplifier prevents ultra-low frequencies from being amplified. Excessive low-frequency energy can damage the woofer by causing it to "bottom out," also know as overexcursion, which is equivalent to a mechanical form of clipping.

Thermal Protection

All amplifiers produce heat. THRASHV2 loudspeakers are designed to be efficient both electrically and thermally. In the unlikely event of the amplifier overheating, a built-in thermal switch will activate, muting the signal.

When the amplifier has cooled down to a safe operating temperature, the thermal switch resets itself, and the THRASHV2 loudspeaker resumes normal operation.

If the thermal switch activates, try turning down the level control a notch or two on the mixing console to avoid overheating the amplifier. Be aware that direct sunlight and/or hot stage lights may be the culprit of an amplifier overheating.

AC Power

Be sure that the THRASHV2 loudspeaker is plugged into an outlet that is able to supply the correct voltage. It will continue to operate at lower voltages, but will not reach full power. Confirm that the electrical service can supply enough amperage for all the components connected to it.

We recommend that a stiff (robust) supply of AC power be used because the amplifiers place high current demands on the AC line. The more power that is available on the line, the louder the speaker will play and the more peak output power will be available for a cleaner, punchier bass. A suspected problem of "poor bass performance" is often caused by a weak AC supply to the amplifiers.

Never remove the ground pin on the power cord – or any other component – of the THRASHV2 loudspeaker. This is very dangerous.

Care and Maintenance

The THRASHV2 loudspeaker will provide many years of reliable service if you follow these guidelines:

- Avoid exposing it to moisture. If it is set up outdoors, be sure it is under cover if rain is expected.
- Avoid exposure to extreme cold (below freezing temperatures). If you must operate in a cold environment, warm up the voice coils slowly by sending a low-level signal through them for about 15 minutes prior to high-power operation.
- Use a dry cloth to clean the cabinet. Only do this when the power is turned off. Avoid getting moisture into any of the openings of the cabinet, particularly where the drivers are located.

Chapter 4 : Placement

Introduction

WARNING: Installation should only be done by an experienced technician. Improper installation may result in damage to the equipment, injury, or death. Make sure that the loudspeaker is installed in a stable and secure way in order to avoid any conditions that may be dangerous for persons or structures.

THRASHV2 loudspeakers are designed to sit on the floor or stage as the main PA or as monitors. They may also be pole-mounted via the built-in socket on the bottom of the cabinet. Be sure the pole is capable of supporting the weight of the loudspeaker. A great tripod option is the T100. If mounting on top of a subwoofer, however, Mackie suggests either the SPM400 (M20 Threaded Loudspeaker Pole Mount) or SPM200 (which is unthreaded).

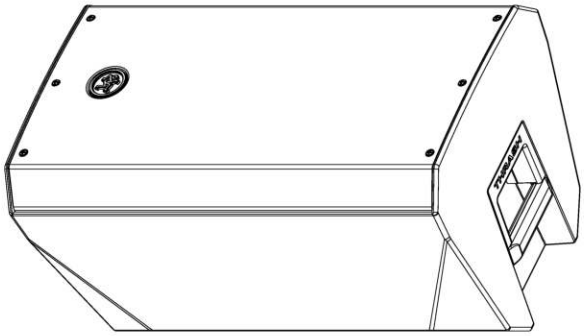
THRASHV2 loudspeakers are **NOT** suitable for flying.

NEVER attempt to suspend a THRASHV2 loudspeaker by its handles.

Check to make sure that the support surface (e.g. floor, etc.) has the necessary mechanical characteristics to support the weight of the loudspeaker(s).When pole-mounting loudspeakers, be sure that they are stabilized and secured from falling over or being accidentally pushed over.

As seen below, near the bottom on the back side of THRASHV2 loudspeakers is a "screw" that tightens the loudspeaker to the pole (whether atop a tripod or subwoofer pole mount). Make sure that it is loose enough for the pole to fully insert into the loudspeaker's pole cup, then, and only then, tighten it down. Failure to follow these precautions may result in damage to the equipment, personal injury, or death.

THRASHV2 loudspeakers may be laid out horizontally as monitors for the band at a 45˚ angle (as seen below). It is intended to be used only when the speaker is in its wedge configuration and works best when on a hard work surface, like a stage.



As seen above, the Running Man logo is rotatable for when the loudspeaker is used as a monitor [International versions of THRASHV2 loudspeakers only]!

Room Acoustics

THRASHV2 loudspeakers are designed to sound fantastic in nearly every application.

But, room acoustics play a crucial role in the overall performance of a sound system.
However, the wide high-frequency dispersion of the THRASHV2 loudspeakers helps to minimize the problems that typically arise.

Here are some additional placement tips to help overcome some typical room problems that might arise:

- Placing loudspeakers in the corners of a room increases the low frequency output and can cause the sound to be muddy and indistinct.

- Placing loudspeakers against a wall increases the low frequency output, though not as much as corner placement. However, this is a good way to reinforce the low frequencies, if so desired.

- Avoid placing the speakers directly on a hollow stage floor. A hollow stage can resonate at certain frequencies, causing peaks and dips in the frequency response of the room. It is better to place them on a sturdy stand designed to handle the weight of the loudspeaker.

- Position the loudspeakers so the high-frequency drivers are two to four feet above ear level for the audience (making allowances for an audience that may be standing/dancing). High frequencies are highly directional and tend to be absorbed much easier than lower frequencies. By providing direct line-of-sight from the loudspeakers to the audience, you increase the overall brightness and intelligibility of the sound system.

- Highly reverberant rooms, like many gymnasiums and auditoriums, are a nightmare for sound system intelligibility. Multiple reflections off the hard walls, ceiling, and floor play havoc with the sound. Depending on the situation, you may be able to take some steps to minimize the reflections, such as putting carpeting on the floors, closing the drapes, or hanging tapestries or other materials on the walls to absorb some of the sound.

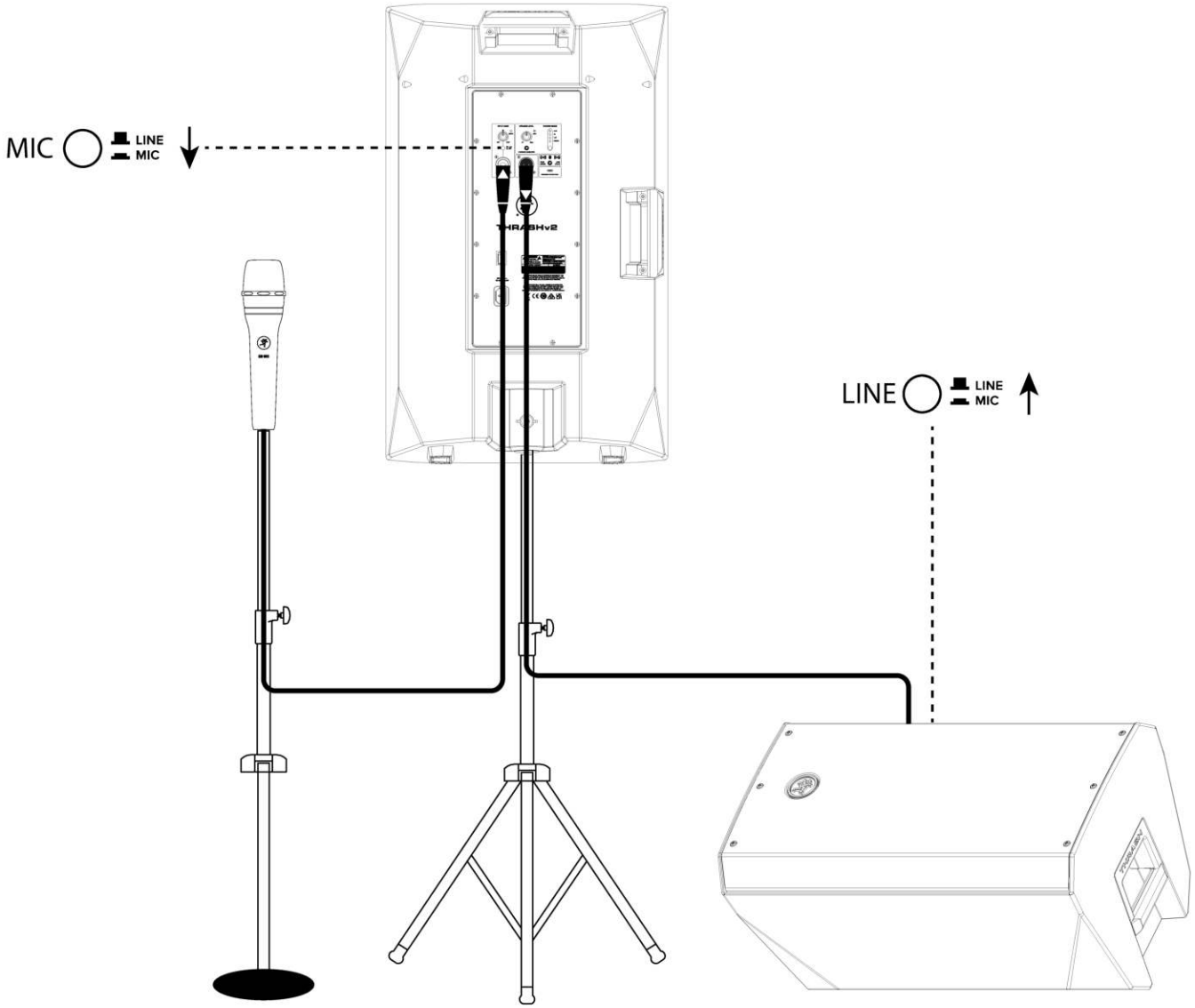
However, in most cases, these remedies are not possible or practical. So what do you do? Making the sound system louder generally doesn't work because the reflections become louder, too. The best approach is to provide as much direct sound coverage to the audience as possible. The farther away you are from the speaker, the more prominent will be the reflected sound.

Use more speakers strategically placed so they are closer to the back of the audience. If the distance between the front and back speakers is more than about 100 feet, you should use an external delay processor to time-align the sound. (Since sound travels about 1 foot per millisecond, it takes about 1/10 of a second to travel 100 feet.)

Keep in mind that the voicing mode is another great way to compensate for some of these issues.
See page 10 for more information.

Hookup Diagrams

Hookup Diagrams > Open Mic: Spoken Word • Poetry Slam • Comedy Night Setup



THRASHV2 loudspeakers are the perfect tool for open mic nights featuring spoken word, poetry slams, comedy night, and more. Bring your favorite mic, THRASHV2 loudspeakers, cables, and power cords.

In this example, a Mackie EM-89D microphone is connected to the input of a THRASHV2 loudspeaker, used as the main PA. The gain knob should be set to unity ("U", ~12:00). The Mic/Line switch should be engaged [Mic], as well. Lastly, set the voicing mode to Flat or Live.

An additional THRASHV2 loudspeaker will be used for monitoring purposes. Simply connect a cable from the THRASHV2 PA's MIX OUT jack to the THRASHV2 monitor's input. This gain knob should also be set to unity ("U", ~12:00). The Mic/Line switch should be disengaged [Line], as well. Since we'll be having a salad for lunch, set the monitor's voicing mode to wedge.

Keep in mind that these suggestions are for reference only and may need to be raised or lowered.

Pro Tip: connect a device to THRASHV2 via Bluetooth for music in between sets, backing tracks, karaoke, and more.

Hookup Diagrams > Small Club System

In this example, a ProFX12v3+ mixer is connected directly to two THRASHV2 loudspeakers. It is the perfect setup for a small club or... a fun karaoke house party!

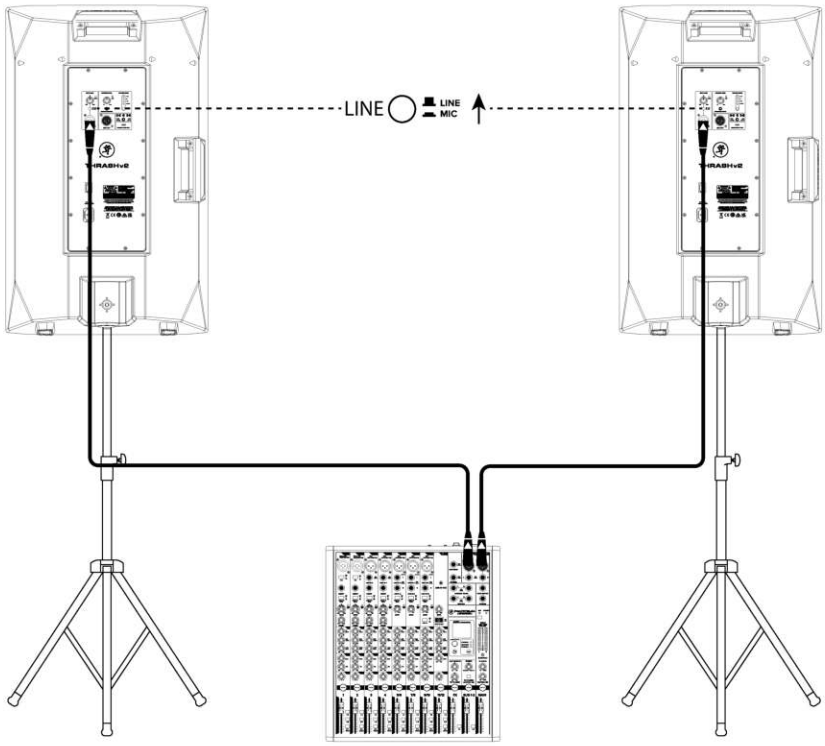
Simply connect the L/R outputs of the ProFX12v3+ mixer to the input of each THRASHV2 loudspeaker.

Set the voicing mode of both to live.

The gain knob on both should be set to ~12:00.

The Mic/Line switches should be disengaged [Line], as well.

Keep in mind that these suggestions are for reference only and may need to be raised or lowered.



If you desire a little more boom, add a THUMPV2 subwoofer to the mix.

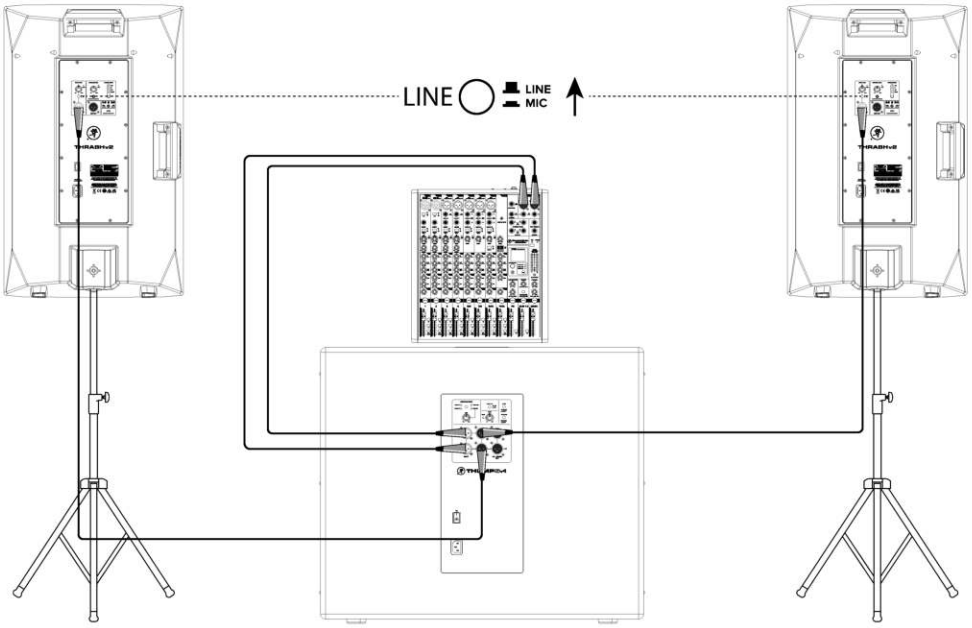
Here, the L/R outputs of a ProFX12v3+ mixer are connected directly to the A and B inputs of a THUMPV2 subwoofer.

Then the High-Pass Outs of the subwoofer are connected to the channel 1 inputs of a pair of THRASHV2 loudspeakers.

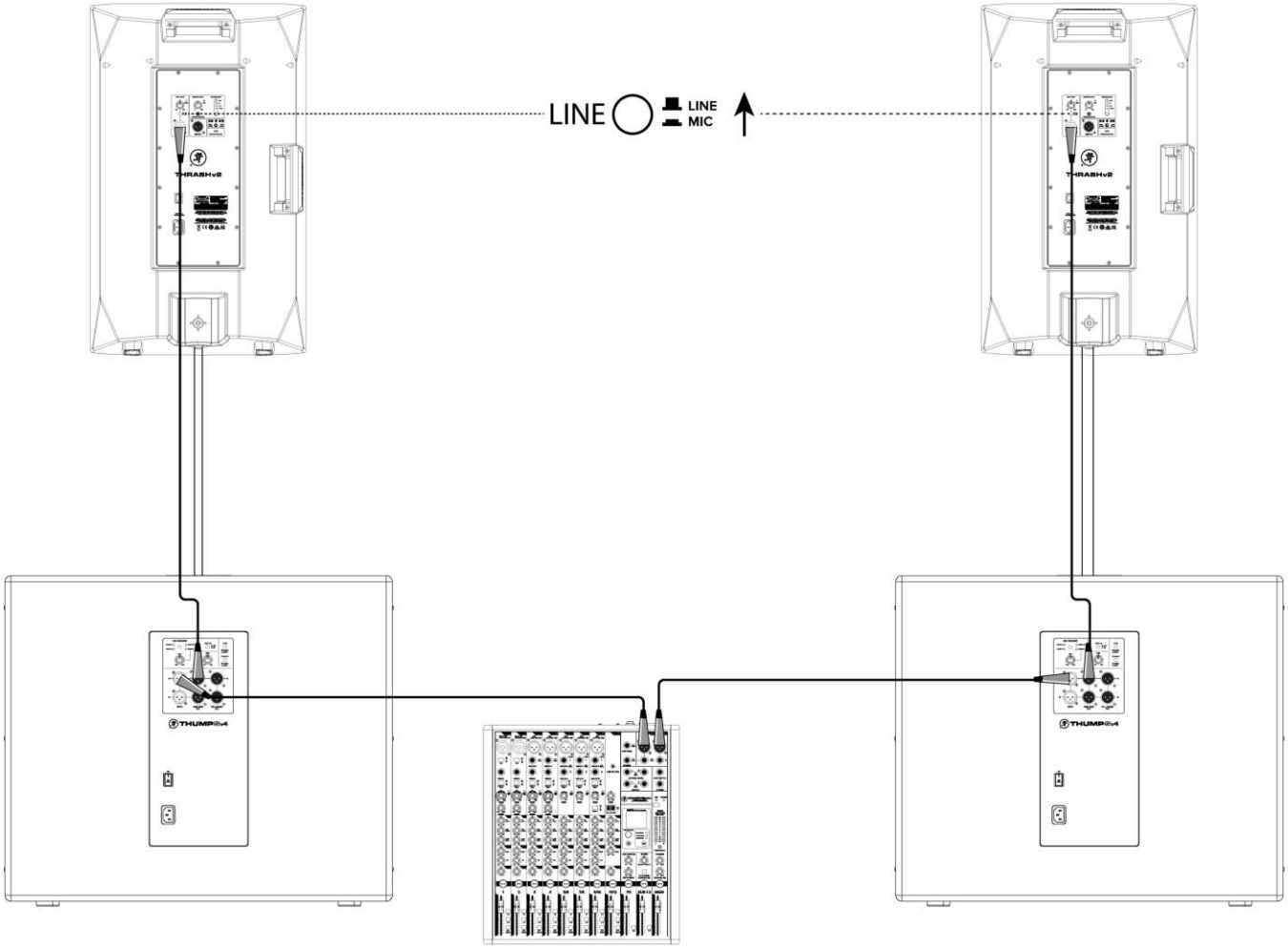
Set the voicing mode of both loudspeakers to live.

The gain knob on the subwoofer and both loudspeakers should be set to Unity ("U", 12:00).
The Mic/Line switches should be disengaged [Line], as well.

Keep in mind that these suggestions are for reference only and may need to be raised or lowered.



Hookup Diagrams > Large Club System



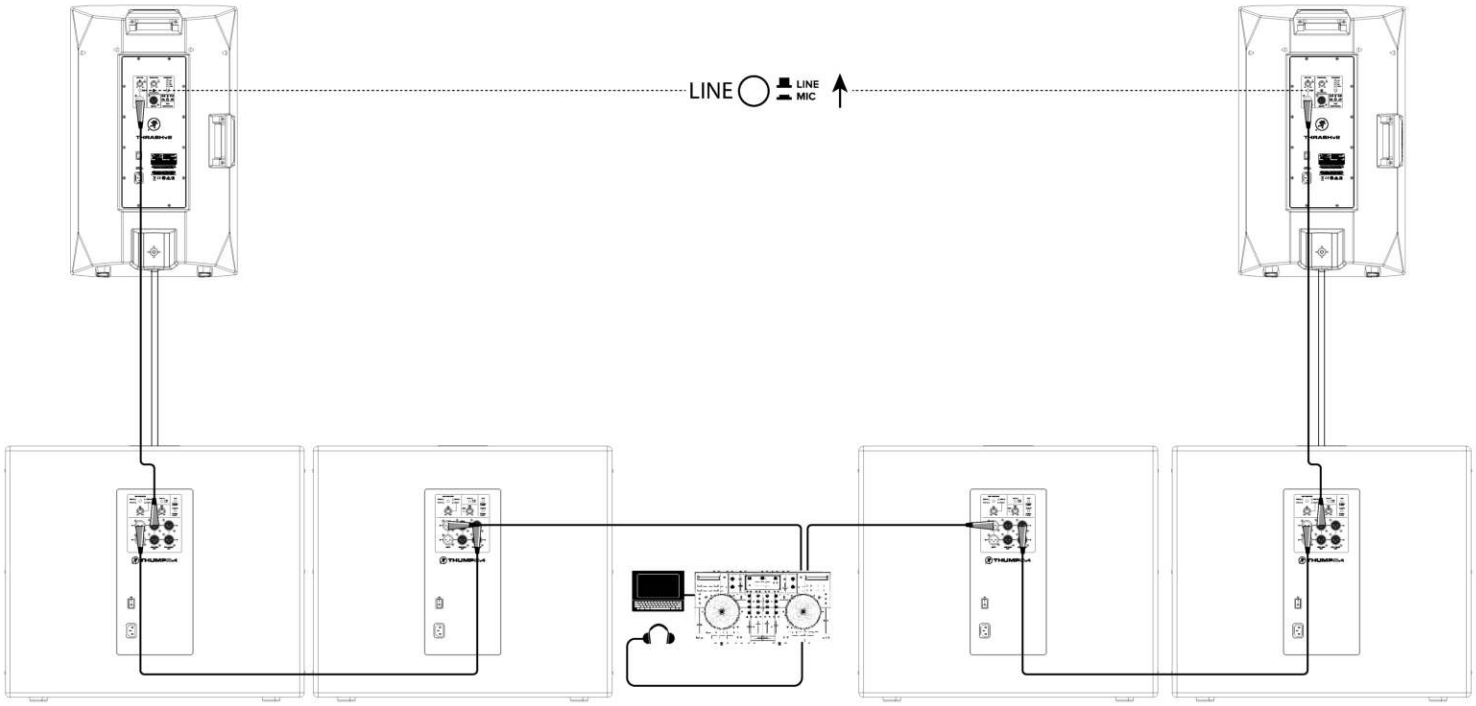
Perhaps the Small Club System didn't have enough beef to it. Alright, ok, we got you. Let's add another THUMPV4 Series subwoofer to the mix. Welcome to the Large Club System! Here, a ProFX12v3+ mixer is connected directly to two THUMPV4 Series subwoofers which, in turn, are connected to a pair of THRASHV2 loudspeakers.

Simply connect the L/R outputs of a mixer directly to the Ch. A input of each THRASHV2 Series subwoofer.
Then the Ch. A high-pass output jack of each subwoofer is connected to the input of each THRASHV2 loudspeaker.

The gain knobs on the subwoofer and both loudspeakers should be set to unity gain (12:00 noon, pointing straight up). Additionally, the Mic/Line switches should be disengaged [Line]. Keep in mind that these suggestions are for reference only and may need to be raised or lowered.

As system size increases, so do power requirements. Refer to "AC Power" on page 16 for additional guidance.

Hookup Diagrams > DJ System



Want even *more* low end? You're in luck! Let's add another pair of THUMPV4 Series subwoofers to the mix. Welcome to the DJ System! Visualize that you're a DJ playing bumpin' tunes in the middle of the night to a crowd that's groovin' and dancin' to your fine selection.

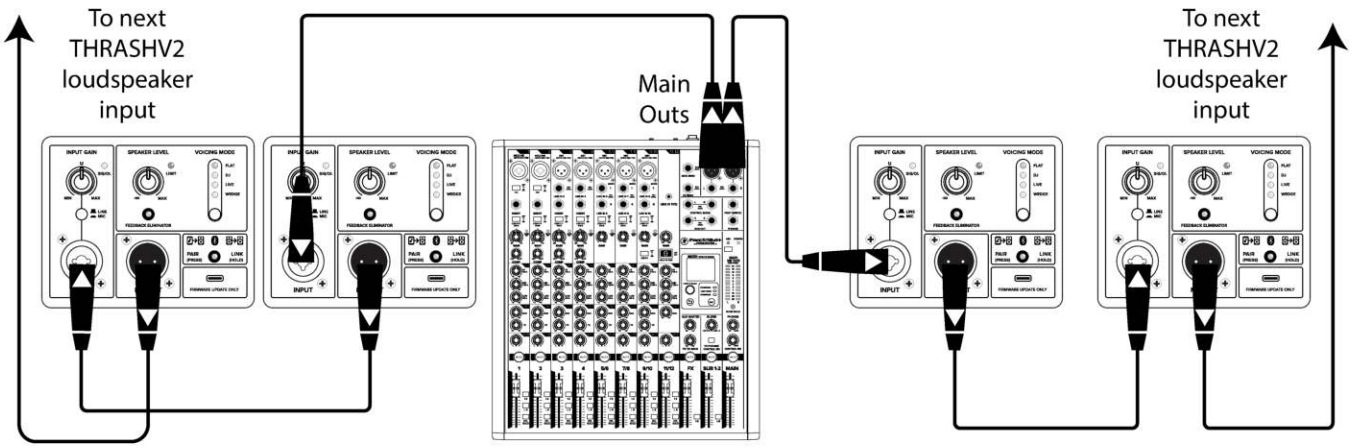
Here, a laptop is connected to a DJ controller. A set of Mackie MC-350 headphones is connected to the phones jack of the DJ controller.

The L/R outputs of the DJ controller are then connected to the Ch. A inputs of two THUMPV4 Series subwoofers. The Ch. A full-range output of the first two THUMPV4 Series subwoofers are then connected to the Ch. A inputs of the next THUMPV4 Series subwoofers. Then the Ch. A high-pass output jacks of the second set of subwoofers is connected to the input of each THRASHV2 loudspeaker.

The gain knobs on the subwoofer and both loudspeakers should be set to unity gain (12:00 noon, pointing straight up). Additionally, the Mic/Line switches should be disengaged [Line]. Keep in mind that these suggestions are for reference only and may need to be raised or lowered.

As system size increases, so do power requirements. Refer to "AC Power" on page 16 for additional guidance.

Hookup Diagrams > Daisy-Chaining Multiple THRASHV2 Loudspeakers



THRASHV2 loudspeakers may be daisy-chained via the "MIX OUT" jack which outputs all inputs, including Bluetooth. Simply plug the signal source (i.e., mixer output or microphone) into the input jack, and patch that loudspeaker's mix out jack to the next loudspeaker's input jack, and so on, daisy-chaining multiple THRASHV2 loudspeakers. See above for visual representations of daisy-chaining.

NOTE: Make sure to set the gain knob(s) correctly. The input channel gain is set to UNITY ("U", ~12:00). Additionally, the mic-line switch should be set to "LINE" (disengaged). The one caveat is if a microphone is connected to the first loudspeakers input. In that case, the switch should be set to "MIC" (engaged), with the remaining daisy-chained loudspeakers at "LINE" (disengaged).

Keep in mind that these are suggestions only and the gain knob may need to be raised or lowered.

Appendix A : Service Information

Troubleshooting

If you think your THRASHV2 Series loudspeaker has a problem, please check out the following troubleshooting tips and do your best to confirm the problem. Visit the Support section of our website (www.mackie.com) where you will find lots of useful information such as FAQs and other documentation. You may find the answer to the problem without having to part with your loudspeaker.

Here are some useful tips that could correct any of the issues outlined below (or possibly any other issue that we haven't yet discovered):

Getting Started Quickly: If you are having any sound (or non-sound) issues, try following the level setting procedure as outlined on page 6 to verify that all of the volume controls in the system are properly adjusted.

There are no user serviceable parts. If none of these tips work, please refer to "Repair" on the next page to find out how to proceed.

No Power

- Our favorite question: Is it plugged in? Make sure the AC outlet is live [check with a tester or lamp].
- Our next favorite question: Is the power switch on? If not, try turning it on.
- Make sure the line cord is securely seated in the line cord socket and plugged all the way into the AC outlet.
- Is a voicing mode LED illuminated? If not, make sure the AC outlet is live. If so, refer to "No Sound" below.
- The internal AC line fuse may be blown. This is not a user serviceable part. If you suspect the AC line fuse is blown, please see the "Repair" section next.

No Sound

- Is the level knob for the input source turned all the way down? Verify that all the volume controls in the system are properly adjusted. Look at the level meter to ensure that the mixer is receiving a signal.
- Is the signal source working? Make sure the connecting cables are in good repair and securely connected at both ends. Make sure the output level control on the mixing console is turned up sufficiently to drive the inputs of the speaker.
- Make sure the mixer does not have a mute on or a processor loop engaged. If you find something like this, make sure the level is turned down before disengaging the offending switch.
- Has it shut down? Make sure there is at least six inches of free space behind each loudspeaker.

Poor sound

- Is it loud and distorted? Make sure that you're not overdriving a stage in the signal chain. Verify that all level controls are set properly.
- Is the input connector plugged completely into the jack? Be sure all connections are secure.
- Perhaps giving it some money might help? Then it will be... wealthy sound?!
- Are there phasing issues? A contributor to phasing is room reflections. Be sure to read more about room acoustics on page 18.

Noise / Hum

- Make sure all connections to the loudspeakers are good and sound.
- Make sure none of the signal cables are routed near AC cables, power transformers, or other EMI-inducing devices. EMI-inducing devices can be anything from microwave ovens, touch-controlled lamps, electric blankets, or any other electronics that emit their own electromagnetic field / radio frequency radiation that can cause interference.
- SCR-based devices on the same AC circuit as the THRASHV2 loudspeaker may introduce electrical noise. These Silicon Controlled Rectifiers are typically used in light dimmers and other high-power switching applications. Use an AC line filter or plug the loudspeaker into a different AC circuit.
- Try disconnecting the cable connected to the input jack. If the noise disappears, it could be a "ground loop," rather than a problem with the loudspeaker.

Try some of the following troubleshooting ideas:

- Use balanced connections throughout your system for the best noise rejection.
- Whenever possible, plug all the audio equipment's line cords into outlets which share a common ground. The distance between the outlets and the common ground should be as short as possible.

Bluetooth / Linking Issues

- Sometimes a good 'ol fashioned reset works wonders.
  See page 14 for more info on resetting a THRASHV2 loudspeaker.
- Try linking two THRASHV2 loudspeakers together prior to connecting via Bluetooth.

Other Issues

- Please email Technical Support if you are having any other issue not listed here:
  - mackie.com/support-contact

Repair

For warranty service, refer to the warranty information on page 31.

Non-warranty service for Mackie products is available at a factory-authorized service center. To locate the nearest service center, visit www.mackie.com, click "Support" and select "Service Center Locater". Service for Mackie products living outside the United States may be obtained through local dealers or distributors.

Appendix B : Technical Information

THRASH12V2 AND THRASH15V2 SPECIFICATIONS

Acoustic Performance

Frequency Response (–10 dB) ..... 45 Hz – 18 kHz [THRASH12V2]
40 Hz – 18 kHz [THRASH15V2]
Frequency Response (–3 dB) ..... 53 Hz – 16 kHz [THRASH12V2]
48 Hz – 16 kHz [THRASH15V2]

Horizontal Coverage ..... 90˚
Vertical Coverage..... 60˚

Maximum SPL Peak .....129 dB (distortion-limited)

Monitor Angle .....45˚

Transducers

Low Frequency.....12 in / 305 mm woofer [THRASH12V2]
15 in / 381 mm woofer [THRASH15V2]

High Frequency.....1.0 in / 25 mm polymer compression driver

Power Amplifiers

System Power Amplification
Rated Power..... 1300 watts peak

Low Frequency Power Amplifier
Rated Power.....1000 watts peak
320 watts RMS
Rated THD..... <1%
Cooling .....Convection
Design .....Class D

High Frequency Power Amplifier
Rated Power.....300 watts peak
180 watts RMS
Rated THD..... <1%
Cooling .....Convection
Design .....Class D

Some Common Alternate 6-String Guitar Tunings

E Standard	E-A-D-G-B-E
Eb Standard	Eb-Ab-Db-Gb-Bb-Eb
D Standard	D-G-C-F-A-D
Drop D	D-A-D-G-B-E
Double Drop D	D-A-D-G-B-D
Drop C	C-G-C-F-A-D
Drop B	B-F#-B-E-G#-C#
Open G	D-G-D-G-B-D
Open D	D-A-D-F#-A-D
Open E	E-B-E-G#-B-E
Open A	E-A-E-A-C#-E
D Modal (aka Celtic)	D-A-D-G-A-D
Baritone	B-E-A-D-F#-B

Input / Output

Input Type	Female XLR – 1/4" Balanced TRS combo jack and Bluetooth
Mic/Line Impedance	10 kΩ Balanced
Mix Out	Male XLR Balanced
Mix Out Impedance	150 Ω Balanced

Electronic Crossover

Crossover Frequency	2.0 kHz

Bluetooth Information

Bluetooth Protocol	5.0
Bluetooth Function	Audio streaming

Line Input Power

Detachable line cord	100–240V~, 50–60 Hz, 300W
AC Connector	3-pin IEC 250 VAC, 10 A male
Power Supply Type	Switchmode Universal mains regulated power supply with PFC integrated

System Processing

Voicing Mode	Four voicing modes Flat, DJ, Live, Wedge

Safety Features

Transducer Protection ..... Peak and RMS limiting
Environmental Protection ..... Power supply and amplifier thermal protection
Feedback Eliminator ..... On / Off
Display LEDs ..... Voicing Mode, Bluetooth Status, Link Status, Signal/Overload, Limit, Feedback Eliminator

Physical Properties

THRASH12V2

Height ..... 24.2 in // 614 mm
Width ..... 13.9 in // 353 mm
Depth ..... 13.7 in // 348 mm
Weight ..... 30.6 lb // 13.9 kg

THRASH15V2

Height ..... 27.2 in // 691 mm
Width ..... 16.5 in // 420 mm
Depth ..... 15.0 in // 381 mm
Weight ..... 36.4 lb // 16.5 kg

Mounting Methods

Floor mount or pole mount via the built-in socket on the bottom of the cabinet [Be sure the pole is capable of supporting the weight of the loudspeaker].

There are no rigging points and they are NOT suitable for rigging. Do not suspend a THRASHV2 loudspeaker by its handles.
See pages 17-18 for more information.

Options

THRASH12V2 Speaker Bag ..... P/N 2047360-09
THRASH12V2 Rolling Speaker Bag ..... P/N 2047360-10
THRASH15V2 Speaker Bag ..... P/N 2047360-11
THRASH15V2 Rolling Speaker Bag ..... P/N 2047360-12
T100 Loudspeaker Tripod Stand ..... P/N 2052464
SPM400 M20 Threaded Loudspeaker Pole Mount ..... P/N 2051055
SPM200 Loudspeaker Pole Mount (unthreaded) ..... P/N 2035170

About

Part Number, Rev and Date ..... SW1513, Rev C, August 2026

Disclaimer

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Please check our website for any updates to this Owner's Manual: www.mackie.com.
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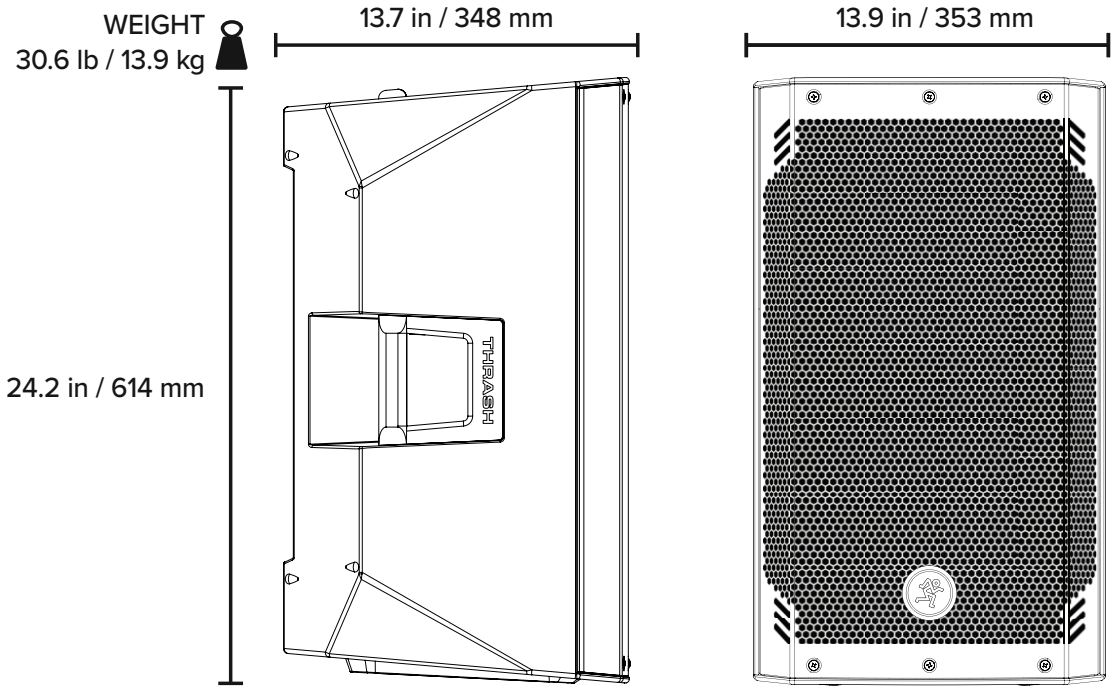
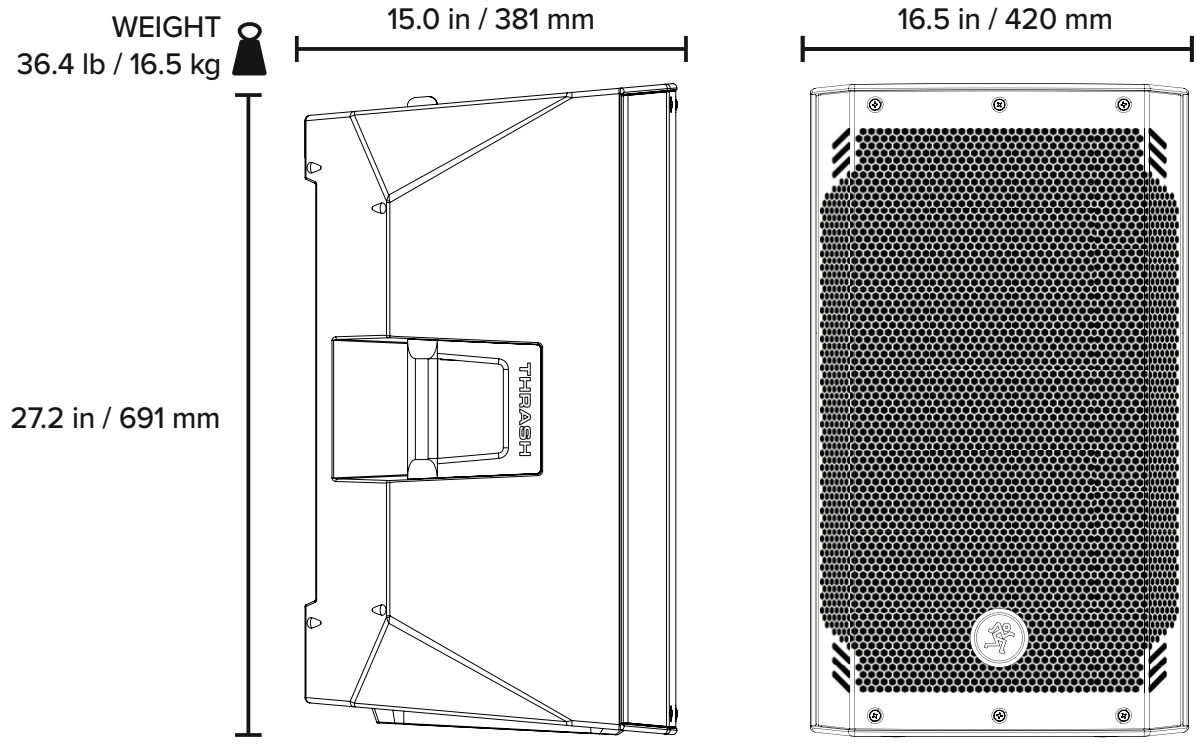
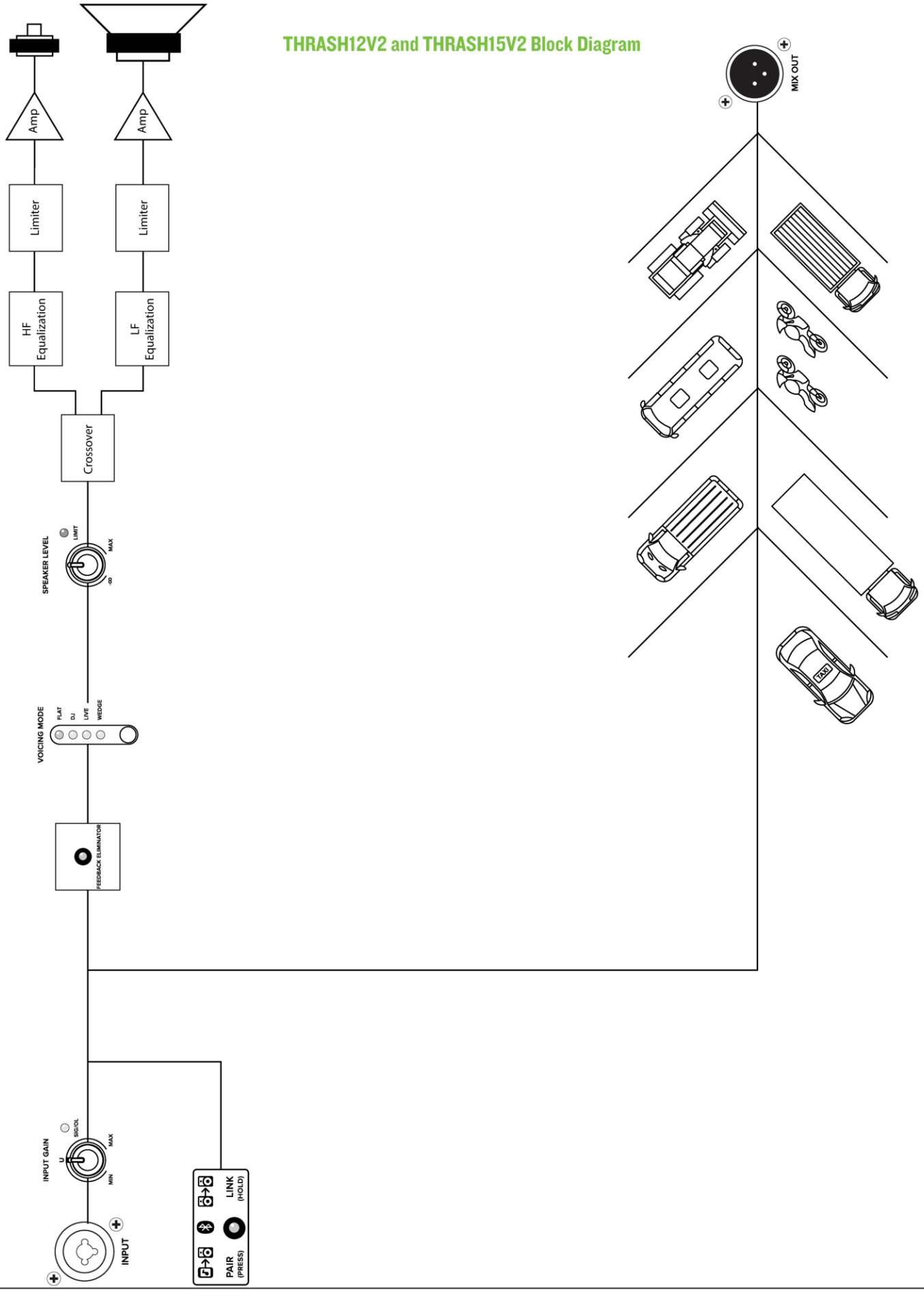
THRASH12V2 Dimensions



THRASH15V2 Dimensions



THRASH12V2 and THRASH15V2 Block Diagram



Warranty Statement

Please keep your sales receipt in a safe place.

This Limited Product Warranty ("Product Warranty") is provided by LOUD Audio, LLC. ("LOUD") and is applicable to products purchased in the United States or Canada through a LOUD-authorized reseller or dealer. The Product Warranty will not extend to anyone other than the original purchaser of the product (hereinafter, "Customer," "you" or "your").

For products purchased outside the U.S. or Canada, please visit www.mackie.com/warranty to find contact information for your local distributor, and information on any warranty coverage provided by the distributor in your local market.

LOUD warrants to Customer that the product will be free from defects in materials and workmanship under normal use during the Warranty Period. If the product fails to conform to the warranty then LOUD or its authorized service representative will at its option, either repair or replace any such nonconforming product, provided that Customer gives notice of the noncompliance within the Warranty Period to the Company at: www.mackie.com/support or by calling LOUD technical support at 1.800.898.3211 (toll-free in the U.S. and Canada) during normal business hours Pacific Time, excluding weekends or LOUD holidays. Please retain the original dated sales receipt as evidence of the date of purchase. You will need it to obtain any warranty service.

For full terms and conditions, as well as the specific duration of the Warranty for this product, please visit www.mackie.com/warranty.

The Product Warranty, together with your invoice or receipt, and the terms and conditions located at www.mackie.com/warranty constitutes the entire agreement, and supersedes any and all prior agreements between LOUD and Customer related to the subject matter hereof. No amendment, modification or waiver of any of the provisions of this Product Warranty will be valid unless set forth in a written instrument signed by the party to be bound thereby.

Need help with the THRASH12V2 and/or THRASH15V2 loudspeaker?

- **Visit www.mackie.com/support to find: FAQs, manuals, addendums, and other documents.**
- **Email us at: www.mackie.com/support-contact**

Please write the serial numbers here for future reference
(i.e., insurance claims, tech support, return authorization, make dad proud, etc.)

Purchased at:

Date of purchase:

19820 North Creek Parkway #201
Bothell, WA 98011 • USA
www.mackie.com

MACKIE.