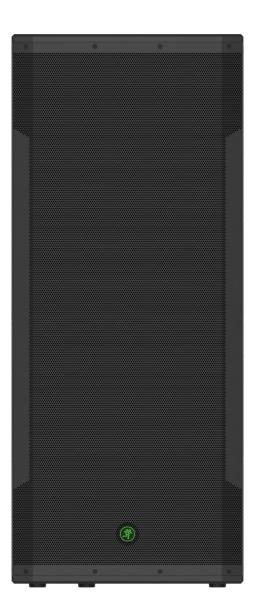
SRM550 • SRM650 • SRM750

1600W POWERED LOUDSPEAKERS

OWNER'S MANUAL









Important Safety Instructions

- 1. Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- **5.** Do not use this apparatus near water.
- **6.** Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- B. 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-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. 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.



13. Unplug this 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. 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.
- 16. Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- 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. This apparatus has been equipped with a rocker-style AC mains power switch. This switch is located on the rear panel and should remain readily accessible to the user.



CAUTION RISK OF ELECTRIC SHOCK! DO NOT OPEN!



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). 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 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 presence of important operating and maintaining (servicing) instructions in the literature accompanying the appliance.

Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan.

Apparatet må tilkoples jordet stikkontakt.

Apparaten skall anslutas till jordat uttag.

19. The MAINS plug or an appliance coupler is used as the disconnect device, so the disconnect device shall remain readily operable.

- 20. 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 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.
 CAUTION: Changes or modifications to this device not expressly approved by LOUD Technologies Inc. could void the user's authority to operate the equipment under FCC rules.
- 21. 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.

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.

22. 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	John screaming at Troy about deadlines
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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THE EVOUSPOUND DIVER DINGS WITH
Limited Warranty

Part No. SW0985 Rev. B 07/14

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Features

- 1600W system power paired with custom transducers deliver gig-level volumes with room to spare
 - 12" high-output LF driver / 1.4" titanium dome compression driver [SRM550]
 - 15" high-output LF driver / 1.4" titanium dome compression driver [SRM650]
 - 2 x 15" high-output LF driver / 1.4" titanium dome compression driver [SRM750]
- "Built-Like-A-Tank" all-wood, internally braced cabinet delivers professional-grade road-worthiness
 - Rugged 18-gauge steel grille and fine-textured, sleek black cabinet finish
 - Front ported for maximum low-end extension and punch
- High-Definition Audio Processing for professional sound with unmatched clarity
 - Patented acoustic correction developed with touring geniuses at EAW[®]
 - Precision 2-way digital crossover
 - Driver time alignment and phase correction
- Quick one-button Speaker Mode selection for application-specific voicing (PA, DJ, Monitor, Soloist, Fill and Speech)
- Effortlessly eliminate nasty feedback with one-button automatic Feedback Destroyer
- Integrated 2-channel mixer featuring dual Wide-Z[™] inputs
 - Handles anything from mics to guitars to mixers with a single twist of the gain knob
 - Includes stereo RCA inputs for easy connection to music source
 - Perfect for the singer/songwriter, plug in and leave the mixer at home
- Smart Protect[™] DSP kicks in to protect your investment when things get pushed a little too hard
- Flyable via standard M10 eyebolts
- Monitor-specific 60° angle and voicing mode perfect for cutting through on stage [SRM550/SRM650]



Introduction

SRM 1600W High-Definition Powered Loudspeakers deliver a new level of SRM ruggedness, clarity and simplicity with unmatched bass response. Huge system power is paired with custom transducers within professional-grade, internally-braced all-wood cabinets that are "Built-Like-A-Tank".

These SRM loudspeakers feature our High Definition Audio ProcessingTM, including patented acoustic correction DSP, plus system optimization tools like application-specific speaker modes and an amazingly accurate feedback destroyer.

Ready for anything, the integrated 2-channel mixer with Wide- Z^{TM} inputs can handle any signal with ease. These SRM loudspeakers deliver the high output, amazing sound and proven durability you demand for your professional PA system.

How to Use This Manual:

After this introduction, a getting started guide will help you get things set up fast. The hookup diagrams show some typical setups, while the remaining sections provide details of the SRM550, SRM650 and SRM750 loudspeakers.



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

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

Purchased at:

Date of purchase:

.

Getting Started

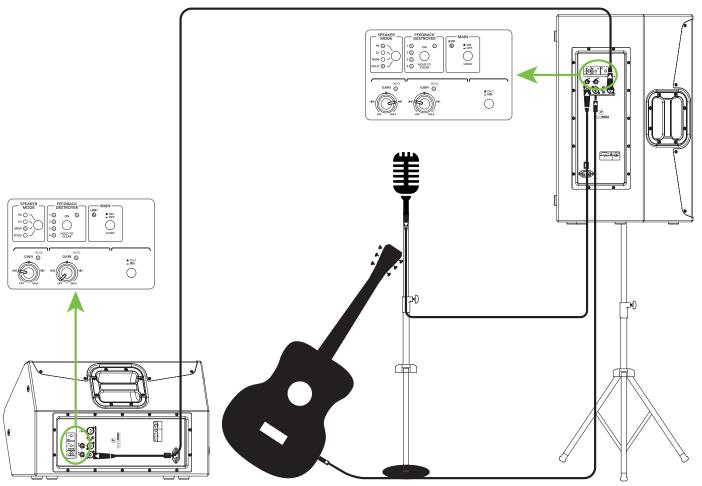
The following steps will help you set up the loudspeakers quickly.

- 1. Make all initial connections with the power switches OFF on all equipment. Make sure the master volume, level, or gain controls are all the way down.
- 2. Connect the line-level outputs from the mixing console (or other signal source) to the inputs on the rear panel of the SRM loudspeakers.
- 3. Make sure that the loudspeaker's gain knobs are set to (or near) "line".
- 4. Connect the supplied AC power cords to the IEC sockets on the rear panel of each loudspeaker. Plug the other end into an AC outlet properly configured with the correct voltage as indicated below the IEC socket.
 - 5. Turn the mixer (or other signal source) on.
 - 6. Turn the loudspeakers on.
- 7. Start the signal source and raise the mixer's main L/R fader up until audio may be heard through the loudspeakers.
- 8. Adjust the master volume of the mixer to a comfortably loud listening level.
- 9. Read the rest of this manual to learn how to set the speaker mode and feedback destroyer to really dial in a sound for the venue.

Things to Remember:

- Never listen to loud music for prolonged periods. Please see the Safety Instructions on page 2 for information on hearing protection.
- As a general guide, SRM loudspeakers should be turned on last, after any mixer or other signal source. As such, they should also be turned off first. This will reduce the possibility of any turn-on or turn-off thumps and other noises generated by any upstream equipment from coming out of the speakers.
- 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.

Hookup Diagrams



SRM loudspeakers are the perfect tool for singer-songwriters touring the local coffee shops. Bring your favorite axe and mic, SRM loudspeakers and cables and power cords.

In this example, a dynamic microphone is connected to the channel 1 input of an SRM650 loudspeaker. Be sure that the gain knob is set to "mic" in order to get an extra boost for the mic. If anything other than a microphone is attached to a channel input, make sure the gain knob is set to anything other than "mic" ["line" is a safe bet]. From there, adjust the gain as described on page 10.

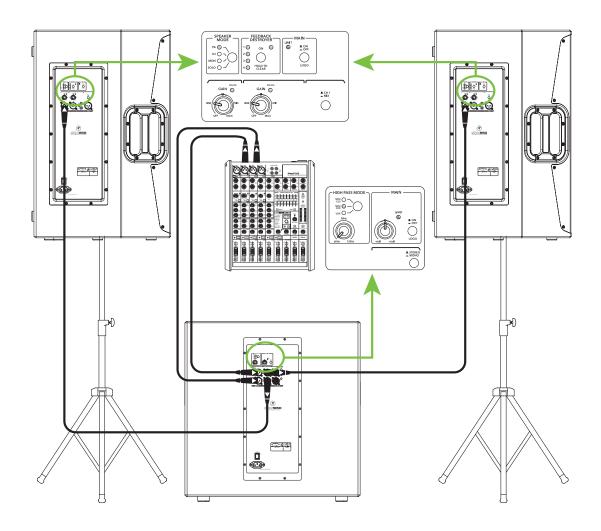
Now grab your axe and plug it directly into the channel 2 input. Or if you use effects, connect the guitar to the effects input and another cable from the effects output to the channel 2 input. Set the channel two gain knob to "line".

An additional SRM550 or SRM650 loudspeaker is great for monitoring. Simply connect a cable from the main SRM loudspeaker's THRU jack to the monitor loudspeaker's channel 1 input [gain knob set to "line"]. Also, make sure the Ch 1/Mix switch is down on the main SRM, as well, so a mix of the vocals and guitar is relayed to the monitor.

For the output, you will want to set a speaker mode, described in detail on page 11. For this type of setup, PA works well for the main SRM650. However, don't count out the soloist mode! It has a nice low cut and a brilliant high end. Select the monitor mode for the SRM550 monitor. Lastly, you can ring out before you play, utilizing the SRM's feedback destroyer [page 11] or just let it kill the feedback while playing.

Small Coffee Shop

Hookup Diagrams continued...



In this example, an SRM1850 subwoofer and additional SRM650 loudspeaker have been added to the mix, giving our sound system some extra beef. It is a perfect setup for a small club.

Here, the L/R outputs of a ProFX8 mixer are connected directly to the channel A and B inputs of a single SRM1850 subwoofer.

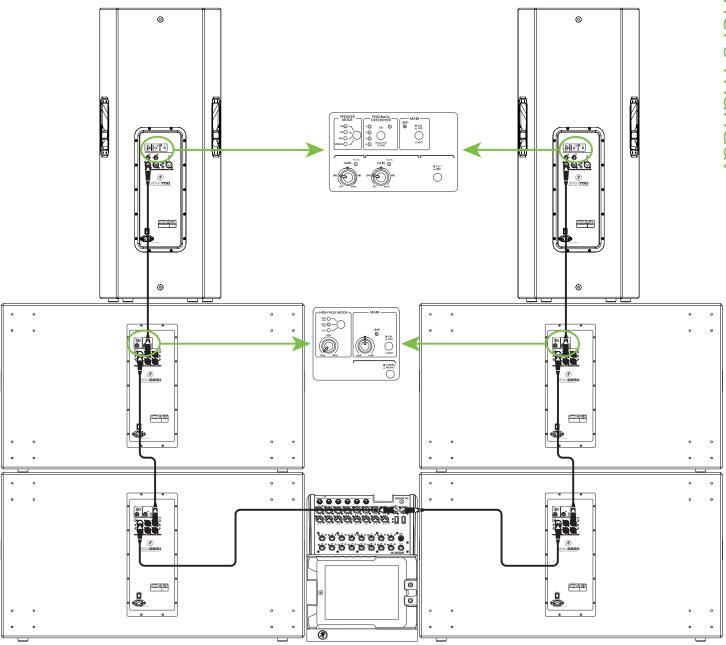
The channel A and B high pass outputs of the SRM1850 subwoofer are connected directly to the channel 1 inputs of each SRM650 loudspeaker. Be sure that the gain knob on each is set to "line" or get ready to be blasted! Select the SRM650 high pass mode on the SRM1850 for a matched system.

SRM loudspeakers are also perfect for use as stage monitors. Simply connect a cable from each aux send to the channel 1 input of each SRM loudspeaker used as a monitor.

For the output, you will want to set a speaker mode, described in detail on page 11. For this type of setup, we recommend selecting the PA speaker mode for live sound on your SRM loudspeakers. If using any SRM loudspeakers as monitors, select the monitor speaker mode.

Small Club System

Hookup Diagrams continued...



Feel the awesome power! In this example, a pair of SRM2850 subwoofers line each side of the venue... four subs total! The top sub on each side is connected to an SRM750 loudspeaker. This fully powered PA is desired when you really need a slammin' system with deep, commanding lows and nice, crisp highs.

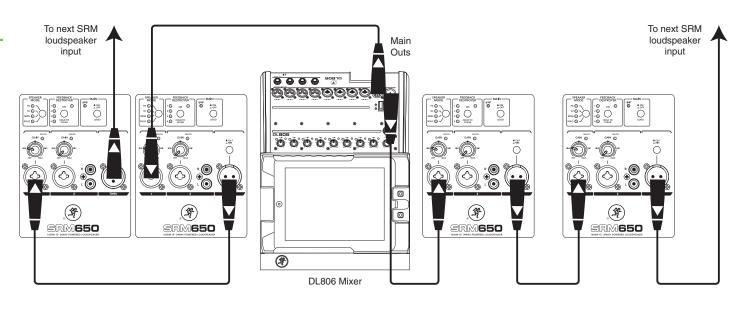
Here, the L/R outputs of a DL1608 mixer are connected directly to the channel A input of each bottom SRM2850 subwoofer. The channel A full range output of each (bottom) SRM2850 subwoofer is connected directly to the channel 1 input of each (top) SRM2850 subwoofer.

From here, the channel A high pass output of each (top) SRM2850 subwoofer is connected directly to the channel 1 input of each SRM750 loudspeaker. Be sure that the gain knob on each is set to "line" or get ready to be blasted! Select the SRM750 high pass mode on the SRM2850 for a matched system.

***Please note that the SRM750 loudspeakers are **stacked** on top of the SRM2850 subwoofers, not pole-mounted. SRM750s may be pole-mounted on a tripod stand, but must be stacked on subwoofers.

BIG PA

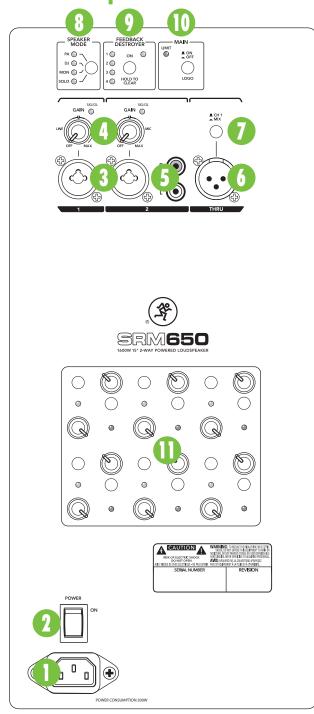
Hookup Diagrams continued...



SRM loudspeakers may be daisy-chained via the male XLR connector labeled "THRU". Simply plug the signal source (i.e., mixer output) into the input jack(s), and patch that loudspeaker's THRU jack to the next loudspeaker's input jack, and so on, daisy-chaining multiple SRM loudspeakers. Make sure that the Ch 1 / Mix button is OUT [Ch 1]. See above for a visual representation of daisy-chaining.

Daisy-Chaining Multiple SRM Loudspeakers

SRM Loudspeaker: Rear Panel Features



1. Power Connection

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 AC power is matched to the AC power indicated on the rear panel (below the IEC receptacle).



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

2. Power Switch

Press the top of this rocker switch inwards to turn on the loudspeaker. The front panel Running Man logo will glow with happiness...or at least it will if the loudspeaker is plugged into a suitable live AC mains supply and the main logo switch [10] is disengaged.

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



As a general guide, SRM loudspeakers should be turned on last, after any mixer or other signal source. As such, they should also be

turned off first. This will reduce the possibility of any turn-on or turn-off thumps and other noises generated by any upstream equipment from coming out of the speakers.

3.XLR and 1/4" Combo Inputs

Both channels feature 1/4" Wide- $Z^{^{\mathrm{TM}}}$ inputs with combo jacks that may accept balanced/unbalanced XLR and 1/4" connections. The gain range of the Wide-Z inputs may handle anything from an instrument level to a high-output mic signal. Simply connect an XLR, TRS or TS connector into the channel and adjust the gain accordingly.



Please be aware of the position of the gain knob [4].



NEVER connect the output of an amplifier directly to the input of the loudspeaker. This could damage the input circuitry

of the active loudspeaker.

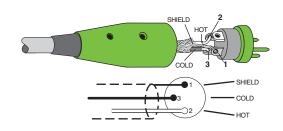
They are wired as follows, according to standards specified by the AES (Audio Engineering Society):

Balanced XLR Input Connector

Pin 1 – Shield (ground)

Pin 2 – Positive (+ or hot)

Pin 3 – Negative (– or cold)



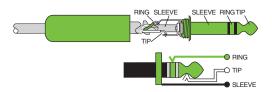
Balanced XLR Input Connector

SRM Loudspeaker: Rear Panel Features continued...

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 stereo headphones and are wired as follows according to standards specified by the AES (Audio Engineering Society):

Balanced 1/4" TRS Connector

Sleeve – Shield (ground) Tip – Positive (+ or hot) Ring – Negative (– or cold)

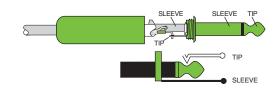


Balanced 1/4" TRS Connector

To connect unbalanced lines to these inputs, use a 1/4" mono (TS) phone plug, wired as follows according to standards specified by the AES (Audio Engineering Society):

Unbalanced 1/4" TS Connector

Sleeve – Shield (ground) Tip – Positive (+ or hot)



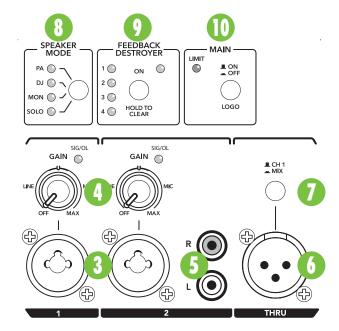
Unbalanced 1/4" TS Connector

For more information on these connectors, see Appendix B on page 20.

4. Gain Knobs

The gain knobs adjust the input sensitivity of the mic and mic/line/RCA inputs. This allows signals from the outside world to be adjusted to run through each channel at optimal internal operating levels.

There is −∞ dB of gain with the knob fully down (off), ramping up to 50 dB of gain fully up (max). The accompanying LED will illuminate green when the channel's input signal is present, indicating signal. It will remain lit so long as there is signal above −20 dBu present in that channel.



The accompanying LED will illuminate red when the amplifier in the SRM loudspeaker is near the clipping point. It is okay if this LED blinks occasionally, because this means that the transient peaks are just reaching the maximum output of the amplifiers and you are getting the most out of your loudspeaker.



If connecting mixer outputs to loudspeaker inputs, set the gain knob to 10:00 ["Line"] for optimal sound and performance.

5. RCA Inputs (Channel 2 Only)

The stereo unbalanced RCA inputs allow you to play a CD player, iPod®, or other line-level source. The RCA jacks accept an unbalanced signal using standard hi-fi [RCA] hookup cables.



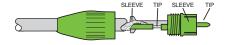
NEVER connect the output of an amplifier directly to the input of the loudspeaker. This could damage the input circuitry

of the active loudspeaker.

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

Unbalanced RCA Connector

Sleeve – Shield (ground) Tip – Positive (+ or hot)



Unbalanced RCA Connector

For more information on these connectors, see Appendix B on page 20.

SRM Loudspeaker: Rear Panel Features continued...

6. Thru Output

This is a male XLR-type connector that produces exactly the same signal that is connected to the main input jack or a mix of channels 1 and 2. Use it to daisy-chain several SRM loudspeakers together off the same signal source(s).

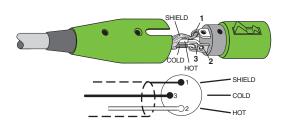
They are wired as follows, according to standards specified by the AES (Audio Engineering Society):

Balanced XLR Output Connector

Pin 1 – Shield (ground)

Pin 2 - Positive (+ or hot)

Pin 3 – Negative (– or cold)



Balanced XLR Output Connector

See page 8 to learn more about daisy-chaining SRM loudspeakers.

For more information on these connectors, see Appendix B on page 20.

7. Ch 1/Mix Switch (Thru Output)

This switch allows you to choose whether only the channel 1 signal (pre-gain) is sent out to the next loudspeaker [switch out - Ch 1] or if a mix of the channel 1 and 2 signals are sent out to the next loudspeaker [switch in - Mix] (post-gains).

8. Speaker Mode

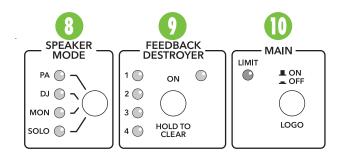
Here you are able to change the loudspeaker's speaker mode to tailor it to best suit your particular application. There are four modes available: PA, DJ, Monitor and Soloist with each SRM550 and SRM650 and PA, DJ, Fill and Speech with each SRM750. Press the speaker mode button repeatedly until the LED of the speaker mode you desire is illuminated. Refer to the Frequency Response graphs on pages 23–25 for further information.

PA Speaker Mode — This mode is full range, but focuses on mid-range clarity where vocals often reside. This is the place to start for most sound reinforcement applications.

DJ Speaker Mode – This mode bumps the lows and highs with a mild tuck to the mids, perfect for music playback.

MON(itor) Speaker Mode – This mode features a low frequency roll-off and a reduction around 2 kHz to ensure maximum gain before feedback in monitor applications.

SOLO(ist) Speaker Mode — This mode features a low frequency roll-off to get rid of unwanted thumps and adds boost and sparkle to mid-range and high frequencies. This plug-and-play mode is perfect for singer-songwriters.



FILL Speaker Mode — This mode features a mild low frequency roll-off to ensure minimal on stage low frequency build-up while providing a rich full range response with plenty of mid-high cut through. This plug-and-play mode is perfect for on stage monitor side fill applications, as well as when facing audience areas where a main FOH rig with subwoofers is present.

SPEECH Speaker Mode — This mode features a significant low frequency roll-off to get rid of unwanted thumps. It also adds boost and sparkle to mid-range and high frequencies, critical for speech applications. This plug-and-play mode is perfect for larger venue applications where speech is the primary audio source in need of clear and precise intelligibility.

9. Feedback desTROYer:

The multi-band feedback destroyer hunts down offending feedback frequencies and applies up to four notch filters automatically to destroy feedback and maximize gain prior to feedback. This is a great tool for performers without a dedicated engineer.

The integrated and amazingly accurate Feedback Destroyer instantly employs up to four incredibly narrow 1/16th octave filters to locate and eradicate feedback so you know you can perform fearlessly. Plus, the entire system is protected by our Smart Protect™ DSP which kicks in to protect your investment when things get pushed a little too hard.

SRM Loudspeaker: Rear Panel Features continued...

10. Main Logo Switch / Limit LED

The Running Man logo on the front of the SRM loudspeaker illuminates when this switch is disengaged and AC power is available at the mains input [1]. Engage the switch if you do not want the Running Man logo to illuminate.

SRM loudspeakers have a built-in limiter that helps to prevent the amplifier outputs from clipping or overdriving the transducers. The limit indicator illuminates yellow when the limiter is activated. It's okay for it to blink yellow occasionally, but if it blinks frequently or lights continuously, turn down the gain knob [4] 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 13 for more information.

11. Extra Knobs, Buttons and LEDs

What's cooler than extra bells and whistles on a new toy? Well, a lot of things, I suppose, but that didn't stop us! The rear panel of each SRM loudspeaker is stacked with a variety of extra knobs, buttons and LEDs. The following is a list of just some of the features and functions of each (in alphabetical order):

Beer Tap — What good is a live show without a pint or two...or more? Simply push and hold in the momentary switch until your pint glass is filled.

Liquor Tap – Not everyone is a beer drinker. That's why we installed the handy-dandy liquor tap, as well.

Modem – Are you old enough to remember the sound of a modem? Press this switch once to have that sound pour out the speakers. Press this switch twice if you would rather hear the joyful sounds of a dot-matrix printer instead.

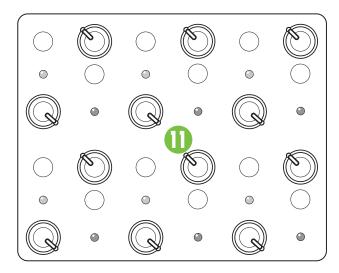
My Favorite Band – Press the my favorite band button repeatedly until your favorite band is displayed on the silkscreen. Whatever song(s) you play through these loudspeakers will sound like the band you selected!

Sports – Music and sports demand two completely different sets of sounds. If used as a sports PA, set the switch to sports.

Stadium – If the audience consists of the bartender, wait staff and significant others, engage this switch. In between songs it will sound like a stadium filled with adoring fans near and wide, not crickets.

Even with all that, we're still trying to figure out what else our crazy engineers packed into these things! The manual will be revised once we've discovered what the other knobs, buttons and LEDs do. Until then, appreciate the joy of new discoveries!





12. Rock 'n Roll

Congratulations, you have reached the end of the features section! At this point, you should have a pretty good understanding of how the SRM loudspeakers function. If this is true, the next step is to rock 'n roll! If this is not true, head back to page 9 and read it all over again. The following pages discuss SRM loudspeaker placement, room acoustics, an in-depth look at rigging and Smart Protect, technical information and more. Check it out!

Smart Protect

There are advanced DSP protection mechanisms designed to safeguard the loudspeakers and amplifiers from inadvertent damage.



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 speaker by overdriving it past the point of amplifier clipping. Such damage is beyond the scope of the warranty.

Limiting

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

The SRM550 and SRM650 use an 18 dB/octave high-pass filter, while the SRM750 uses an 24 dB/octave Butterworth high-pass filter just prior to the low-frequency amplifier. This prevents very 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. SRM 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 SRM loudspeaker resumes normal operation.

If the thermal switch activates, try turning down the level control a notch or two on the mixing console (or the back of the loudspeaker) 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 the SRM loudspeaker is plugged into an outlet that is able to supply the correct voltage specified for your model. It will continue to operate at lower voltages, but will not reach full power.

Be sure 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 speakers 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 SRM loudspeaker. This is very dangerous.

Care and Maintenance

These loudspeakers will provide many years of reliable service if you follow these guidelines:

- Avoid exposing the loudspeakers to moisture.
 If they are set up outdoors, be sure they are under cover if rain is expected.
- Avoid exposure to extreme cold (below freezing temperatures). If you must operate the loudspeakers 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 cabinets. 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.

Placement



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.

These loudspeakers are designed to sit on the floor or stage as the main PA, monitors [SRM550 / SRM650], or fill speakers [SRM750]. 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).

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. When pole-mounting loudspeakers, be sure that they are stabilized and secured from falling over or being accidentally pushed over.

The SPM200 is a great option when using an SRM subwoofer, as it allows for greater extension than most other poles available north of the South Pole.

VERY IMPORTANT

Please note that SRM750 loudspeakers should not be pole-mounted via SPM200. Instead, it should be stacked on top of the

Instead, it should be stacked on top of the subwoofer. It is highly suggested that straps are utilized. To reiterate, failure to follow these precautions may result in damage to the equipment, personal injury, or death.

These loudspeakers may also be flown via its fly points as detailed on pages 16–17. Be sure to read the PA-A2 Eyebolt Installation Instructions, as well.

These loudspeakers are NOT designed to array horizontally. If you feel you must put two speakers side-by-side, you should have a good understanding of the relationship between the splay angle (the angle between the facing sides of the cabinets) and frequency cancellation effects between cabinets.

When two cabinets are positioned side-by-side such that the rear-angled faces of the enclosures are parallel, the splay angle will be 90°. This matches the 90° horizontal coverage pattern of each individual loudspeaker; the interference between the two cabinets will be minimized, but the total coverage of 180° may be too wide for some applications. The mid and high frequencies may also be reduced for those in the center who are too close to the loudspeakers.

Reducing the splay angle will reduce the total horizontal coverage, but it also creates an area both speakers are covering. Instead of a nearfield hole, this will cause comb-filtering effects in the frequency response in the overlapping area. The smaller the splay angle, the more energy will be delivered on-axis, but the comb-filtering effects will get worse at the same time.

To reiterate, though, we strongly suggest NOT arraying these loudspeakers horizontally. Experimentation and experience will help you find the right trade-off for your application.

Room Acoustics

SRM 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. 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 in the aisles). 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 draperies to cover large glass windows, 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 a 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 speaker mode and feedback destroyer are two great ways to compensate for some of these issues. See page 11 for more information [8, 9].

Rigging

SRM loudspeakers may be individually flown using a PA-A2 Eyebolt Kit, part number 0028272 [M10 x 1.5 x 37 mm forged shoulder eyebolts].



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.



WARNING: The cabinet is suitable for rigging via its fly points. NEVER attempt to suspend an SRM loudspeaker by its handle.

Rigging Design Practices

Rigging a loudspeaker requires determining:

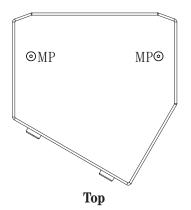
- 1. The rigging methods and hardware that meet static, shock, dynamic, and any other load requirements for supporting the loudspeaker from structure.
- 2. The design factor and required WLL (Working Load Limit) for this support.

We strongly recommend the following rigging practices:

- 1. Documentation: Thoroughly document the design with detailed drawings and parts lists.
- 2. Analysis: Have a qualified professional, such as a licensed Professional Engineer, review and approve the design before its implementation.
- 3. Installation: Have a qualified professional rigger do the installation and inspection.
- 4. Safety: Use adequate safety precautions and back-up systems.

3 Fly Points [SRM550 / SRM650]

MP = Mounting Point



Rigging Hardware and Accessories

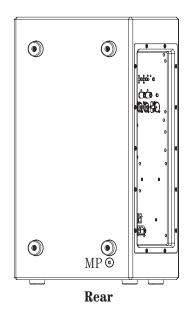
Rigging our loudspeakers will invariably require hardware not supplied by us. Various types of load-rated hardware are available from a variety of third-party sources. There are a number of such companies specializing in manufacturing hardware for, designing, and installing rigging systems. Each one of these tasks is a discipline in its own right. Because of the hazardous nature of rigging work and the potential liability, engage companies that specialize in these disciplines to do the work required.

We do offer certain accessory rigging items and some of them may be used with a variety of products. While these accessories are intended to facilitate installation, the wide variety of possible installation conditions and array configurations do not permit us to determine their suitability or load rating for any particular application.

We are not in the business of providing complete rigging systems, either as designers, manufacturers, or installers. It is the responsibility of the installer to provide a properly engineered, load-certified rigging system for supporting the loudspeaker from structure.

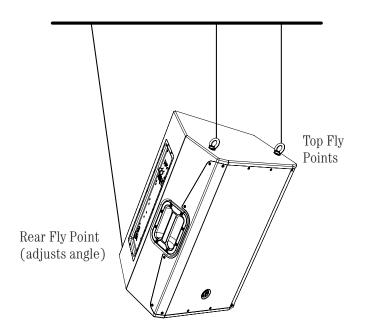
Rigging Notes

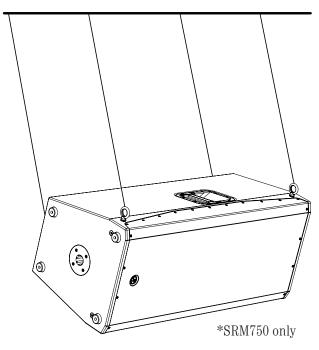
The SRM loudspeaker's integral mounting points are designed to support only the weight of their own loudspeaker with suitable, external hardware. This means that each SRM loudspeaker must be supported independently of any other SRM loudspeaker and any other loads. At least three rigging points must be used to hang an SRM loudspeaker.



Important Rigging Reminder:

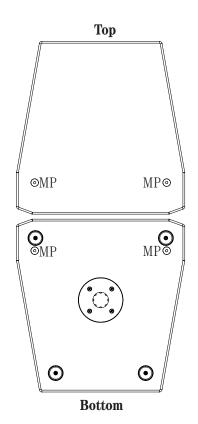
To reiterate, we are not in the business of providing complete rigging systems, either as designers, manufacturers, or installers. It is the responsibility of the installer to provide a properly engineered, load-certified rigging system for supporting the loudspeaker from structure.

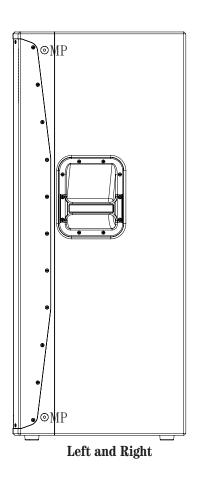


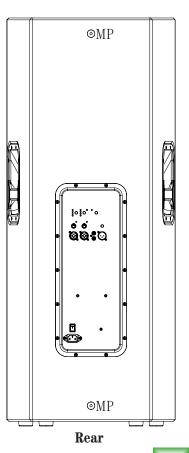


10 Fly Points [SRM750]

MP = Mounting Point







Appendix A: Service Information

If you think the SRM 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.720trees.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.

Troubleshooting

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.
- Is the Running Man logo on the front panel 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 input gain knob for the input source turned all the way down? Verify that all the gain knobs 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 SRM loudspeaker.

Poor bass performance

- Check the polarity of the connections between the mixer and the loudspeakers. You may have your positive and negative connections reversed at one end of one cable, causing one loudspeaker to be out-of-phase with the other.
- Poor bass performance may be the result of bad AC power. See the section titled 'AC Power' on page 13 for further details.

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.

Noise

- What is the position of the gain knob? It should be at (or near) "mic" when a mic is connected and at (or near) "line" when a line-level signal is connected. It should be "off" for all unused inputs.
- Make sure all connections to the active loudspeakers are good and sound.
- Make sure none of the signal cables are routed near AC cables, power transformers, or other EMI-inducing devices.
- Is there a light dimmer or other SCR-based device on the same AC circuit as the SRM loudspeaker?
 Use an AC line filter or plug the loudspeaker into a different AC circuit.

Hum

- Try disconnecting the cable connected to the main input jack. If the noise disappears, it could be a "ground loop," rather than a problem with the SRM 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.

Repair

For warranty service, refer to the warranty information on page 27.

Non-warranty service is available at a factory-authorized service center. To locate the nearest service center, visit www.720trees.com, click "Contact Tech Support" and select "Locate a Service Center or Distributor" [3]. Service for SRM loudspeakers living outside the United States can be obtained through local dealers or distributors.

If you do not have access to our website, you may call the Tech Support department at 1-800-898-3211, Monday-Friday, during normal business hours, Pacific Time, to explain the problem. Tech Support will tell you where the nearest factory-authorized service center is located in your area.

Appendix B: Connections

Balanced XLR Input Connector

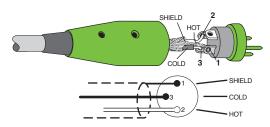
Each SRM loudspeaker has two female XLR/TRS/TS combo inputs. Be sure the cables are wired per AES (Audio Engineering Society) standards:

Balanced XLR Input Connector

Pin 1 – Shield (Ground)

Pin 2 - Positive (+ or hot)

Pin 3 – Negative (- or cold)



Balanced XLR Input Connector

Balanced XLR Output Connector

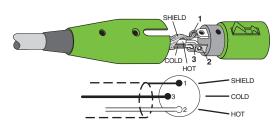
There is also a male XLR output on each SRM loudspeaker labeled "THRU". Be sure the cables are wired per AES (Audio Engineering Society) standards:

Balanced XLR Output Connector

Pin 1 – Shield (Ground)

Pin 2 - Positive (+ or hot)

Pin 3 – Negative (– or cold)



Balanced XLR Output Connector

SRM loudspeakers may be daisy-chained via the male XLR connector labeled "THRU". Simply plug the signal source (i.e., mixer output) into the input jack(s), and patch that loudspeaker's THRU jack to the next loudspeaker's input jack, and so on, daisy-chaining multiple SRM loudspeakers. See page 8 for a visual representation of daisy-chaining.

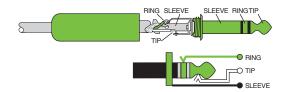
Balanced 1/4" TRS Connector

TRS stands for Tip-Ring-Sleeve, the three connections available on a stereo 1/4" cable. This allows for a direct connection to the channel 1 and 2 input jacks on SRM loudspeakers. Be sure the cables are wired per AES (Audio Engineering Society) standards:

Balanced 1/4" TRS Connector

Sleeve – Shield (Ground) Tip – Positive (+ or hot)

Ring – Negative (– or cold)



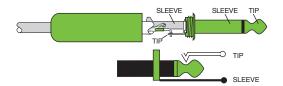
Balanced 1/4" TRS Connector

Unbalanced 1/4" TS Connector

TS stands for Tip-Sleeve, the two connections available on a mono 1/4" cable. This allows for a direct connection to the channel 1 and 2 input jacks on SRM loudspeakers. Be sure the cables are wired per AES (Audio Engineering Society) standards:

Unbalanced 1/4" TS Connector

Sleeve – Shield (Ground) Tip – Positive (+ or hot)



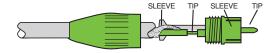
Unbalanced 1/4" TS Connector

Unbalanced RCA Connector

RCA-type plugs (also known as phono plugs) and jacks are often used in home stereo and video equipment and in many other applications. RCA plugs are unbalanced. Connect the signal to the center post and the ground (earth) or shield to the surrounding "basket." Be sure the cables are wired per AES (Audio Engineering Society) standards:

Unbalanced RCA Connector

Sleeve – Shield (Ground) Tip – Positive (+ or hot)



Unbalanced RCA Connector

Appendix C: Technical Information

SRM Loudspeaker Specifications

Acoustic	Performance:
AUUUUU	I CHIVIIII CHICA

Frequency Response (-3 dB)	55 Hz–17 kHz [SRM550] 50 Hz–17 kHz [SRM650] 42 Hz–20 kHz [SRM750]
Frequency Response (-10 dB)	49 Hz–20 kHz [SRM550] 39 Hz–20 kHz [SRM650] 37 Hz–20 kHz [SRM750]
Max peak SPL	132 dB [SRM550] 133 dB [SRM650] 135 dB [SRM750]
Crossover Point	3 kHz
Dispersion [H x V]	90° x 50°

Input/Output

F	F		
Channe	el 1		
	Mic-Line	$8~\mathrm{k}\Omega$ balanced	
	$1/4$ " TRS, Wide- Z^{TM}	$1~\mathrm{M}\Omega$ unbalanced	
Channe	el 2		
	Mic-Line	$8~\mathrm{k}\Omega$ balanced	
	$1/4$ " TRS, Wide- $Z^{\text{\tiny TM}}$	$1~\mathrm{M}\Omega$ unbalanced	
	RCA	25 k Ω unbalanced	
Thru	•	Male XLR balanced [Passive when the Ch 1 / Mix switch is in the "out" (Ch 1) position]	
L		en the Ch 1 / Mix switch " (Mix) position	

High-Frequency Section

Voice Coil Diameter	1.0 in / 25 mm
Horn Entry Diameter	1.4 in / 36 mm
Diaphragm Material	Titanium
Magnet Material	Ferrite

Line Input Power

US detachable line cord	100 – 120 VAC, 50 – 60 Hz, 200W
EU detachable line cord	200 - 240 VAC, 50 - 60 Hz, 200W
AC Connector	3-pin IEC 250 VAC
Power Supply Type	Switchmode

Low-Frequency Section

Woofer Diameter	12 in/305 mm [SRM550]
	15 in/381 mm [SRM650]
	2x 15 in/381 mm [SRM750]
Voice Coil Diameter	2.6 in/66 mm [SRM550]
	3.0 in/76 mm [SRM650]
	2.5 in/64 mm [SRM750]
Diaphragm Material	Paper
Magnet Material	Ferrite

Safety Features

Input Protection	Peak and RMS limiting, power supply and amplifier thermal protection
Display LEDs	Defeatable front power ON (Running Man logo), Front load power limiter, Speaker Mode, Feedback Destroyer, input signal

Power Amplifiers

Rated THD

Cooling

Design

System Power Amplification	
Rated Power	800 watts rms 1600 watts peak
Low Frequency Power Amplifier	
Rated Power	400 watts rms 800 watts peak
Rated THD	< 1%
Cooling	Convection
Design	Class D
High Frequency Power Amplifier	
Rated Power	400 watts rms

800 watts peak

< 1%

Convection

Class D

Construction Features

J .		
Handles One on each side Grille Powder-coated 18 gauge steel Fly Points 3x M10 x 1.5 x 37 mm [SRM550 / SRM6 10x M10 x 1.5 x 37 mm [SRM7.	Cabinet	15 mm Poplar
Grille Powder-coated 18 gauge steel Fly Points 3x M10 x 1.5 x 37 mm [SRM550 / SRM6 10x M10 x 1.5 x 37 mm [SRM7	Finish	High durability black paint
Fly Points 3x M10 x 1.5 x 37 mm [SRM550 / SRM6 10x M10 x 1.5 x 37 mm [SRM7	Handles	One on each side
10x M10 x 1.5 x 37 mm [SRM7	Grille	Powder-coated 18 gauge steel
Monitor Angle 60° [SRM550 / SRM650]	Fly Points	3x M10 x 1.5 x 37 mm [SRM550 / SRM650] 10x M10 x 1.5 x 37 mm [SRM750]
	Monitor Angle	60° [SRM550 / SRM650]

SRM Loudspeaker Specifications continued...

Physical Properties

SRM550:	
Height	23.0 in / 585 mm
Width	14.2 in / 360 mm
Depth	14.9 in / 377 mm
Weight	37 lb / 16.8 kg
SRM650:	
Height	26.7 in / 677 mm
Width	17.5 in / 445 mm
Depth	17.4 in / 441 mm
Weight	46 lb / 21 kg
SRM750:	
Height	42.5 in / 1080 mm
Width	17.5 in / 445 mm
Depth	18.0 in / 458 mm
Weight	89 lb / 40.4 kg

Mounting Methods

Floor mount, pole mount or fly via integrated M10 mounting points (using M10 x 1.5 x 37 mm forged shoulder eyebolts). See pages 16-17 for more information.

Options

SRM550 Cover	P/N 2036809-22
SRM650 Cover	P/N 2036809-23
SRM750 Cover	P/N 2036809-26
SPM200 Loudspeaker Pole Mount	P/N 2035170-01
PA-A2 Forged Shoulder Eyebolt Kit	
(3 x M10 x 1.5 x 37 mm)	P/N 0028272

Disclaimer

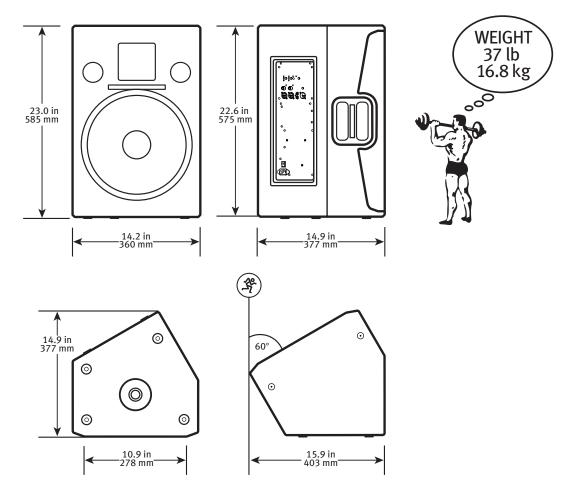
Since we are always striving to make our products better by incorporating new and improved materials, components, and manufacturing methods, we reserve the right to change these specifications at any time without notice.

The "Running Man" figure is a registered trademark of LOUD Technologies Inc.

All other brand names mentioned are trademarks or registered trademarks of their respective holders, and are hereby acknowledged.

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SRM550 Loudspeaker Dimensions



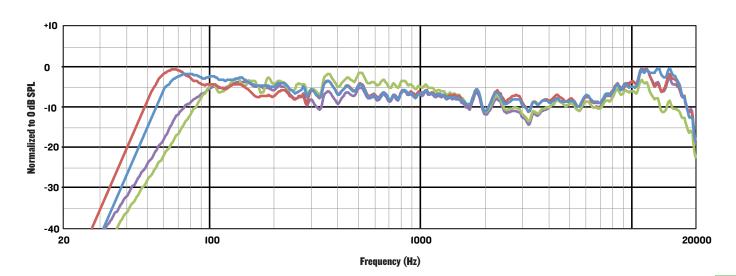
SRM550 Loudspeaker Frequency Response

PA Speaker Mode – This mode is full range, but focuses on mid-range clarity where vocals often reside.

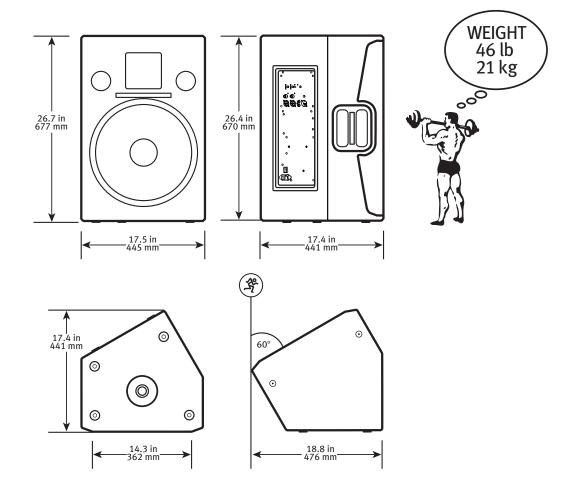
Soloist Speaker Mode – This mode features a low frequency roll-off to get rid of unwanted thumps and adds boost and sparkle to mid-range and high frequencies. This mode is perfect for plug-and-play singer-songwriters.

DJ Speaker Mode – This mode bumps the lows and highs with a mild tuck to the mids, perfect for music playback.

Monitor Speaker Mode – This mode features a low frequency roll-off and a reduction around 2 kHz to ensure maximum gain before feedback in monitor applications.



SRM650 Loudspeaker Dimensions



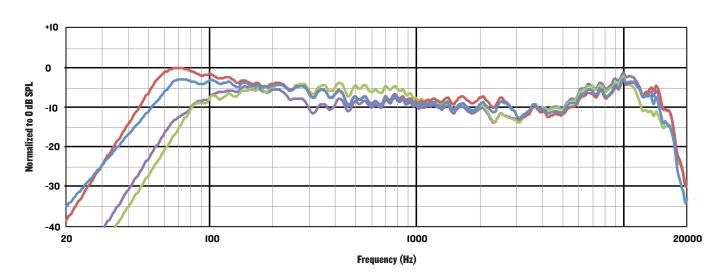
SRM650 Loudspeaker Frequency Response

PA Speaker Mode – This mode is full range, but focuses on mid-range clarity where vocals often reside.

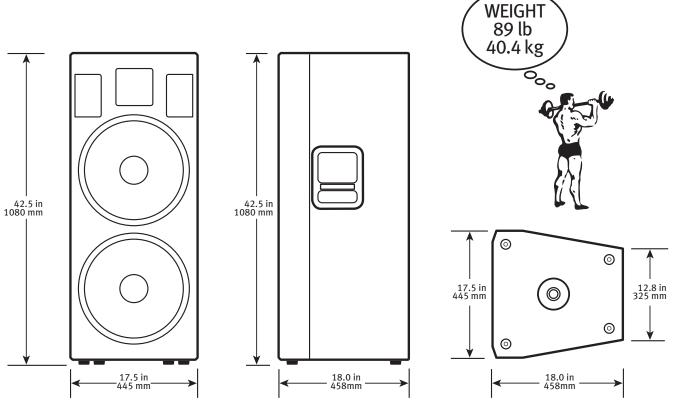
Soloist Speaker Mode – This mode features a low frequency roll-off to get rid of unwanted thumps and adds boost and sparkle to mid-range and high frequencies. This mode is perfect for plug-and-play singer-songwriters.

DJ Speaker Mode – This mode bumps the lows and highs with a mild tuck to the mids, perfect for music playback.

Monitor Speaker Mode – This mode features a low frequency roll-off and a reduction around 2 kHz to ensure maximum gain before feedback in monitor applications.



SRM750 Loudspeaker Dimensions



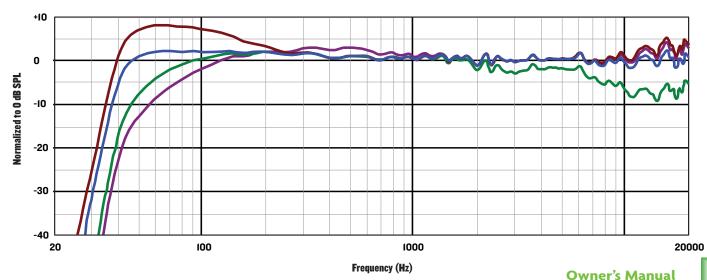
SRM750 Loudspeaker Frequency Response

PA Speaker Mode – This mode is full range, but focuses on mid-range clarity where vocals often reside.

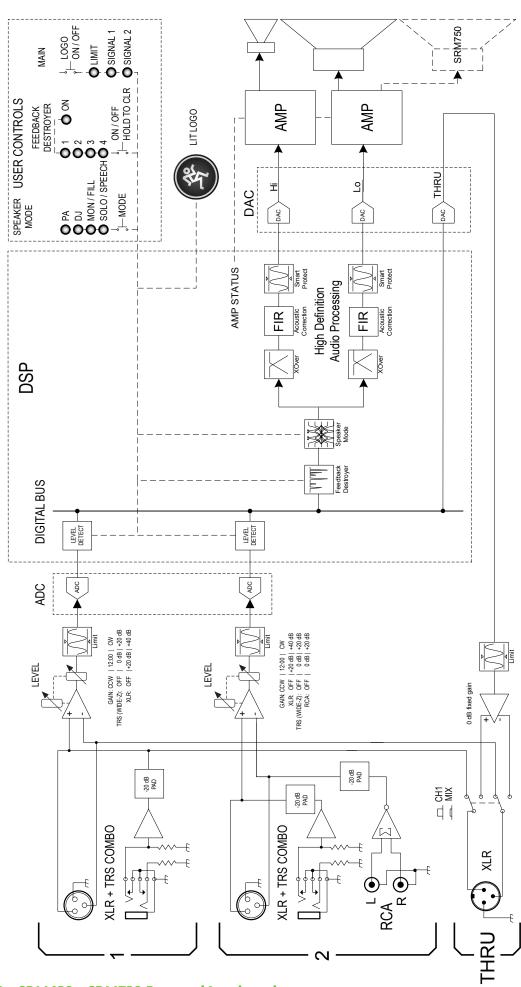
Fill Speaker Mode – This mode features a mild low frequency roll-off to ensure minimal on stage low frequency build-up while providing a rich full range response with plenty of mid-high cut through. This plug-and-play mode is perfect for on stage monitor side fill applications, as well as when facing audience areas where a main FOH rig with subwoofers is present.

DJ Speaker Mode – This mode bumps the lows and highs with a mild tuck to the mids, perfect for music playback.

Speech Speaker Mode — This mode features a significant low frequency roll-off to get rid of unwanted thumps. It also adds boost and sparkle to mid-range and high frequencies, critical for speech applications. This plug-and-play mode is perfect for larger venue applications where speech is the primary audio source in need of clear and precise intelligibility.



SRM Loudspeaker Block Diagram



Limited Warranty

Please keep your sales receipt in a safe place.

This Limited Product Warranty ("Product Warranty") is provided by LOUD Technologies Inc. ("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.720trees.com 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.720trees.com 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.720trees.com.

The Product Warranty, together with your invoice or receipt, and the terms and conditions located at www.720trees.com 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 your loudspeaker?

- Visit www.720trees.com and click Support to find: FAQs, manuals, addendums, and other documents.
- Email us at: techmail@loudtechinc.com.
- Telephone 1-800-898-3211 to speak with one of our splendid technical support chaps (Monday through Friday, normal business hours, Pacific Time).



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