RS Active Loudspeakers with Bluetooth®

Owner's Manual

SAMSON®

Important Safety Information

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS
RISQUE DE CHOC ÉLECTRONIQUE -
NE PAS OUVRIR

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

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

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.

If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling.

Private household in the 28 member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one).

For Countries not mentioned above, please contact your local authorities for a correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health.

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Important Safety Information

1. Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. This apparatus shall not be exposed to dripping or splashing liquid and no object filled with liquid, such as a vase, should be placed on the apparatus.

6. Clean only with a dry cloth.

7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions. Minimum 5cm around the apparatus for sufficient ventilation

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatuses (including amplifiers) that produce heat.

9. Only use attachments/accessories specified by the manufacturer.

10. Unplug this apparatus during lightning storms or when not in use for long periods of time.

11. Do not override the intended 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 third prong, is provided for your safety. If the provided plug does not fit your outlet, consult an electrician to replace the obsolete outlet.

12. Protect the power cord from being walked on or pinched, particularly at the prongs, convenience receptacles, the point where they exit from the apparatus.

13. Use only with the cart stand, tripod bracket, or table specified by the manufacture, or sold with the apparatus. When a cart is used, utilize caution when moving the cart/apparatus combination to avoid injury from tip-over.

14. Refer all servicing to qualified service personnel. Servicing is required if the apparatus has been damaged in any way, such as power-supply cord or plug breakage, damage due to liquid or objects falling onto the apparatus, exposure to rain or moisture, or if the apparatus does not operate normally, or has been dropped.

15. POWER ON/OFF SWITCH: For products with a power switch, the power switch DOES NOT break the connection from the mains.

16. MAINS DISCONNECT: The plug should remain readily operable. For rack-mount or installation where plug is not accessible, an all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated into the electrical installation of the rack or building.

17. FOR UNITS EQUIPPED WITH EXTERNALLY ACCESSIBLE FUSE RECEPTACLE: Replace fuse with same type and rating only.

18. MULTIPLE-INPUT VOLTAGE: This equipment may require the use of a different line cord, attachment plug, or both, depending on the available power source at installation. Connect this equipment only to the power source indicated on the equipment rear panel. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel or equivalent.

Important Safety Information

FCC Notice

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

    (1) This device may not cause harmful interference.

    (2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Statement

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 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.

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

RF Warning Statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

This device complies with RSS-310 of Industry Canada. Operation is subject to the condition that this device does not cause harmful interference.

Hereby, Samson Technologies Corp., declares that this RS110A, RS112A and RS115A are in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The declaration of conformity may be consulted at:
http://www.samsontech.com/site_media/support/manuals/RS112A_DOC.pdf

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Introduction

Thank you for purchasing the Samson RS series active loudspeaker with Bluetooth®. RS series loudspeakers provide the functionality of a powered speaker with the RS110A featuring 300 watts, and RS112A/RS115A featuring 400 watts of bi-amped power, as well as versatility of a portable PA system with an onboard mixer. Ideal for live music, DJ, lecture, and portable sound applications.

The RS110A has a heavy-duty 10" low-frequency driver while the RS112A and RS115A have 12" and 15" low-frequency drivers respectively. All three models have a 1" high frequency driver mounted in wide-dispersion horn, providing crystal-clear audio and an ultra-wide sound field. The rear panel three-channel mixer includes two XLR and 1/4" inputs that handle microphone or line level signals, a 3.5mm aux input and *Bluetooth* connectivity for streaming music. The two Mic/Line channels include a variable compressor for evening out the input signals. There is also a USB Wireless port for connecting Samson XPD Series wireless microphone systems. An XLR Mix Output allows you to daisy-chain additional powered loudspeakers to create larger sound reinforcement systems. The cabinet's trapezoidal shape allows it to be configured for either front-of-house use, for operation as a wedge-style monitor, or can be stand-mounted using the integral 1 3/8" pole-mount receptacles.

In these pages, you'll find a detailed description of your RS Loudspeaker, as well as step-by-step instructions for its setup and use. If your loudspeaker was purchased in the United States, you'll also find a registration card enclosed — don't forget to follow the instructions so that you can receive online technical support and so that we can send you updated information about this and other Samson products in the future. Also, be sure to check out our website www.samsontech.com for complete information about our full product line.

We recommend you keep the following records for reference, as well as a copy of your sales receipt:
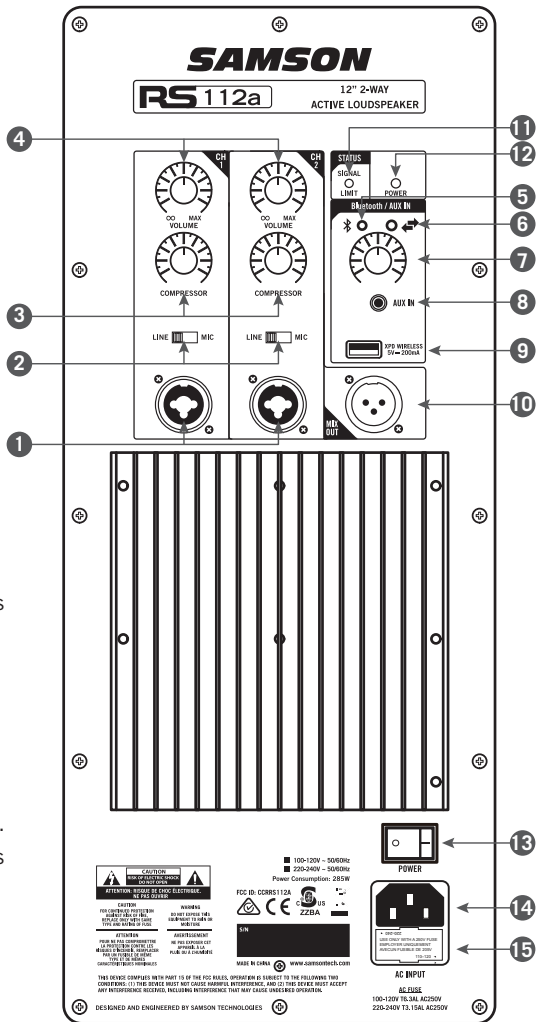

Serial number: _____

Date of purchase: _____

If you have any questions or comments regarding the RS Loudspeaker or any other products from Samson, do no hesitate to contact us at **support@samsontech.com**.
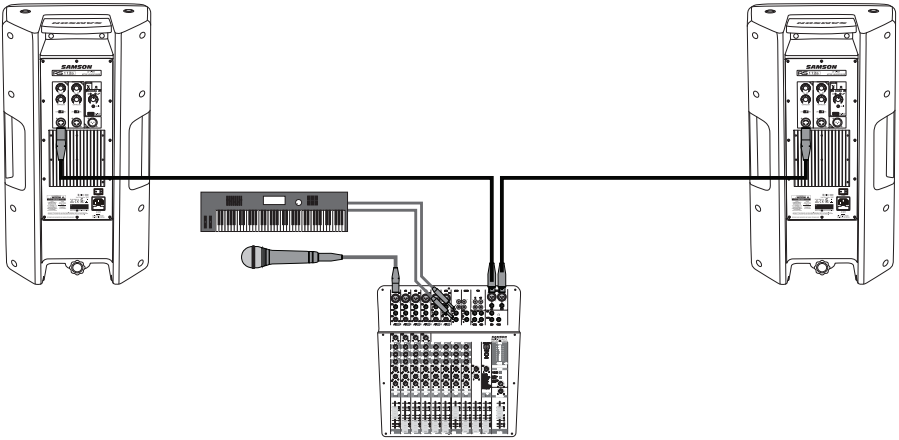
With proper care and maintenance, your RS Loudspeaker will operate trouble-free for many years. Should your RS Loudspeaker ever require servicing, a Return Authorization (RA) number must be obtained before shipping your unit to Samson. Without this number, the unit will not be accepted. Please visit **www.samsontech.com/ra** for an RA number prior to shipping your unit. Please retain the original packing materials and, if possible, return the unit in its original carton. If your RS Loudspeaker was purchased outside of the United States, contact your local distributor for warranty details and service information.

Rear Panel Layout

1. **XLR & 1/4" Combo Input** - Use these XLR - 1⁄4" input for balanced microphone or line level devices.

2. **SENSITIVITY Switch (Mic/Line)** - Matches the channel sensitivity to the input audio source signals.

3. **COMPRESSOR** - These knobs adjust the level of compression applied to the channel. As the knob is turned clockwise, the compression ratio is raised and the output gain is adjusted accordingly. The dynamic range of the channel is narrowed, where softer signals will be magnified and loud signals will be subdued to sit better in the mix. Too much compression can create a pumping effect, eliminate all dynamic range, and lead to feedback.

4. **Volume Control** - This knob adjusts the level of the Channel 1 and 2 input signals.

5. **Pairing Indicator** - Displays the Bluetooth® status of the RS loudspeaker.

6. **Pairing Button** - Press this button to enable discoverable mode to pair with a *Bluetooth* audio device.

7. **Volume Control** - This knob adjusts the level of the Bluetooth and Aux In.

8. **1/8" AUX IN** - Connect a line level device using a 3.5mm audio cable.

9. **XPD WIRELESS Input** - Connect a Samson XPD digital wireless USB receiver to this input.

10. **MIX OUT** - Male XLR connector used to link multiple RS Loudspeaker cabinets.

11. **SIGNAL / LIMIT Indicator** - This indicator lights green when signal is present. It will light red when the amp is near the clipping point and the limiter is engaged.

12. **POWER Indicator** - This LED lights GREEN when amp is active.

13. **POWER Switch** - Switches on the RS Loudspeaker's main power.

14. **AC Power Inlet** - Connect the supplied standard IEC AC power cable here.

15. **Fuse Holder** - The fuse holder comes from the factory with the appropriately rated fuse for your model. If you need to change this fuse for any reason, replace it with one that has the same exact rating.
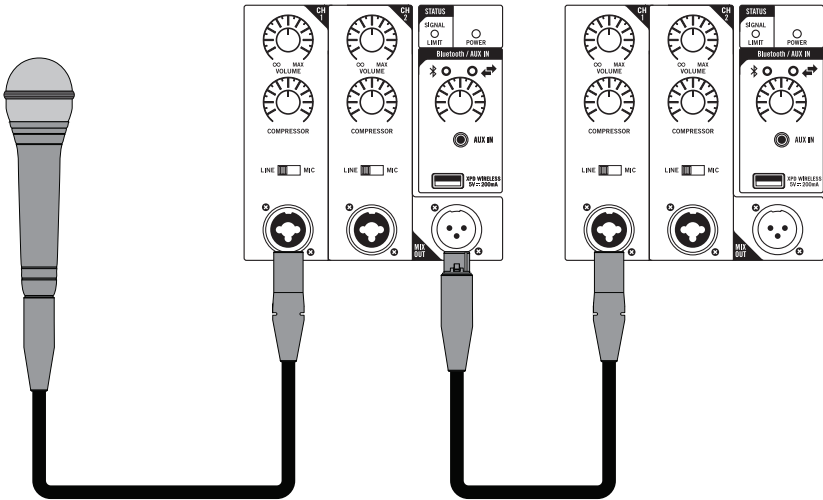
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Quick Start

The following steps will help you get started using your RS Series Loudspeaker with a mixer.

1. Turn the RS Loudspeaker and mixer Power switch to the OFF positions.

2. Turn the VOLUME control on the rear panel of the RS Loudspeaker down, fully counterclockwise.

3. Following the manufacturer's instruction, connect your audio sources to your mixer.

4. Connect either a XLR or 1/4" cable from the output of your mixer to the INPUT 1 jack on the RS Loudspeaker rear panel. Set the LINE/MIC switch to the LINE position.

5. Connect the supplied power cable to the IEC socket on the back of the loudspeaker. Plug the power cable into an AC outlet.
    Note: Always make sure that the AC outlet is configured with the correct voltage as indicated on the rear panel of the RS Loudspeaker.

6. Turn on the power to the mixer and RS Loudspeaker(s).

7. Run an audio signal from your mixer and check that you are getting a good level using the mixers output meter.

8. Slowly raise the RS Loudspeaker's VOLUME control until you have reached the desired level.

9. If the volume from the speakers gets really loud, or you see the Limit indicator blinking frequently, turn down the VOLUME control on the RS Loudspeaker a little until the indicator does not light, or only lights occasionally with signal peaks.

Note: Before plugging in and turning on, remember the "last on, first off" rule of powered audio gear - When powering up your system, be sure that all the wires are connected, first turn on your mixer and any other outboard gear, then turn on your RS Loudspeakers. When powering down, turn off your RS Loudspeakers off first and then your mixer and outboard gear.

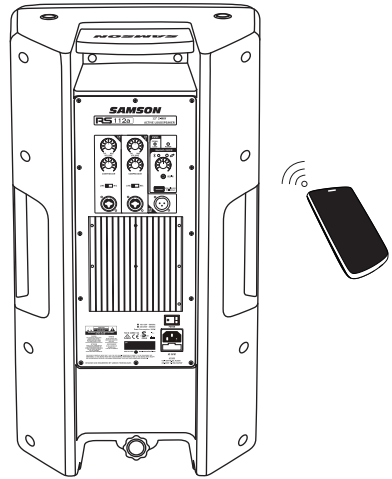# Connecting a Wired Microphone

Follow these steps to connect a microphone level signal to your RS Loudspeaker and daisy-chain the signal to a second RS Loudspeaker:

1. Set both RS Loudspeaker's POWER switch to the OFF position.

2. Turn the VOLUME control down, fully counterclockwise.

3. Connect the power cables for each cabinet to an AC socket.

4. Connect a standard XLR cable from the main RS Loudspeaker's MIX OUT to the second RS Loudspeaker's INPUT 1 XLR input.

5. On the second RS Loudspeaker, set the SENSITIVITY switch to the LINE position.

6. Using a standard XLR cable, plug a dynamic microphone into the RS Loudspeaker's XLR INPUT.

7. Set the SENSITIVITY switch to the MIC position.

8. Switch the Power switch to the ON position.

9. While speaking or singing into the microphone, slowly raise the VOLUME control until you have reached the desired level.

10. For larger sound reinforcement you can run several monitors using the Mix Output to daisy-chain one RS Loudspeaker to another. Set the input Sensitivity on the additional cabinets to the LINE level position.

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Bluetooth® Pairing

1. Turn the BLUETOOTH/AUX IN Volume control down counterclockwise to 0.

2. With the RS Loudspeaker and your Bluetooth device powered on, quickly press and release the Pair button on the rear panel of the RS Loudspeaker to make the speaker discoverable. The Bluetooth indicator will slowly flash blue.

3. In the settings of your Bluetooth device, set it to "discover" available devices.

4. From the Bluetooth device list, select the "Samson BLUETOOTH" device.

5. If your device asks for a passkey, enter digits 0000 (four zeros) and press OK. Some devices may also ask you to accept the connection.

6. The RS Loudspeaker speaker indicates that pairing is complete when the indicator turns steady blue. You can now stream audio from your device to the RS Loudspeaker.

7. With the volume control on your Bluetooth device turned up, play some music, and slowly raise the RS Loudspeaker BLUETOOTH/AUX IN Volume control until you have reached the desired level.
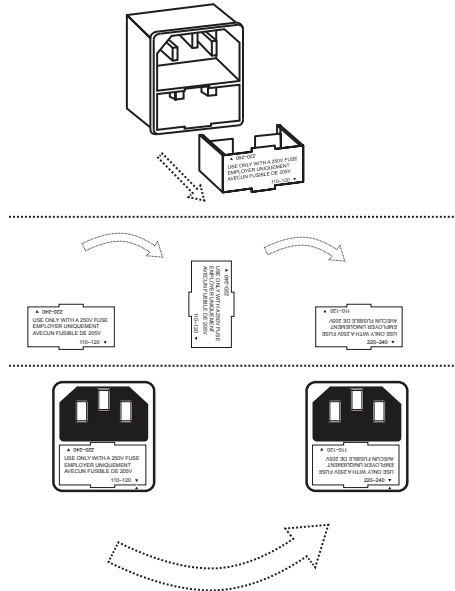
Voltage Selection Instructions

Following are step-by-step instructions for changing the mains voltage of the RS Loudspeaker.
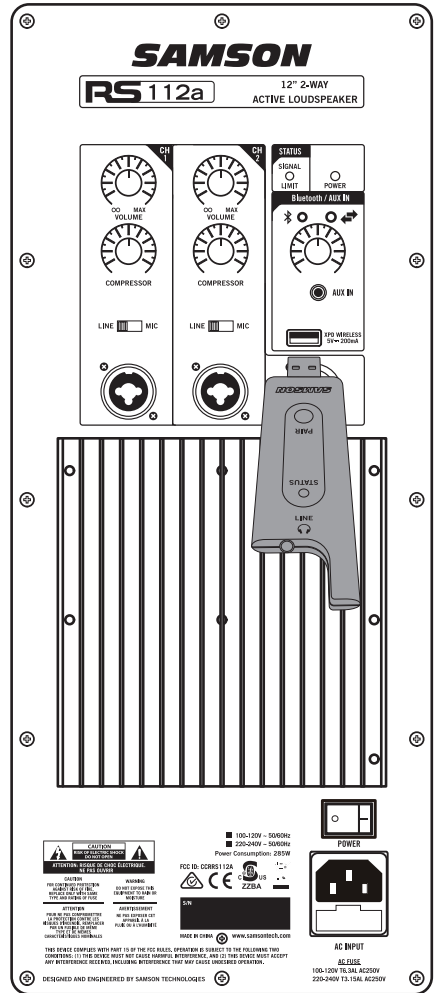
WARNING: Before carrying out this operation, remove the power cord!

1. Insert a small screwdriver into the slot beneath the fuse sled and gently press in and up. The fuse sled will pop out approximately 3/8" inch.

2. Remove fuse sled.

3. Remove the fuse. Replace with the correct fuse for your region.

4. Rotate the fuse sled and line up the arrow on the AC inlet with the correct voltage for your region.

5. Push the fuse sled into the AC inlet until fully seated.

Connecting XPD Wireless Microphone (sold separately)

1. Plug the Samson XPD USB receiver into the XPD Wireless USB jack on the rear panel of the RS Loudspeaker.

2. Turn the Bluetooth/Aux In Volume knob on the RS Loudspeaker completely counterclockwise.

3. Place a fresh set of AA (LR6) batteries in the transmitter battery holder, taking care to observe the polarity markings, then replace the cover.

4. Turn on the power to the transmitter by pressing and holding Power switch; the indicator light on the transmitter and receiver will light amber.

5. Speak or sing into the mic at a normal performance level and raise the Bluetooth/Aux In Volume control until the desired level is reached.

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Specifications

	RS110A	RS112A	RS115A
Output Power	300 Watts Peak (260 LF + 40 HF)	400 Watts Peak (300 LF + 100 HF)	
	170 Watts RMS (140 LF + 30 HF)	200 Watts RMS (150 LF + 50 HF)	
Max. SPL (1M)	102dB	115dB	116dB
Frequency Response	60Hz – 20kHz	55Hz – 20KHz	50Hz – 20kHz
Low Frequency	10" (254mm) Woofer 2" (50.8mm) Voice Coil	12" (305mm) Woofer 2" (50.8mm) Voice Coil	15" (381mm) Woofer 2.5" (63.5mm) Voice Coil
High Frequency	1" (25.4mm) 1" (25.4mm) Voice Coil		
Crossover	Frequency: 3.5kHz Type: 24dB/Oct	Frequency: 3kHz Type: 18dB/Oct	
Horn Coverage	84°H x 56°V	90°H x 60°V	
Inputs	Balanced XLR–1/4" Combo, USB XPD Wireless		
Output	Balanced XLR Line Output		
Contour Equalization	100Hz & 12kHz Boost		
Electronic Protection	Thermal, Overload, Analog (Optical) Limiter, Compressor		
AC Connector	3-pin IEC 250 VAC, 10 A male	3-pin IEC 250 VAC, 20 A male	
Power Consumption	420W		
Fuse	110V-120V T5A AC250V; 220V-240V T2.5A AC250V T: denotes time lag L: denotes low breaking capacity	100-120V T6.3AL AC250V; 220-240V T3.15AL AC250V T: denotes time lag L: denotes low breaking capacity	
Enclosure	Polypropylene		
Grille	Full metal perforated		
Handles	Two side, one top		
Monitor Angle	45°		
Mounting Method	1-38" (35mm) Pole Mount Receptacle, 4 M10 Flypoints		
Dimensions (LxWxH)	12.6" x 11.2" x 22.1" 320 x 285 x 561mm	15" x 12.9" x 23.9" 380 x 327 x 606.5mm	15.2" x 14" x 24.9" 386 x 356 x 631.5mm
Weight	21.6lb / 9.8kg	30.8lb / 14kg	32.6lb / 14.8kg

At Samson, we are continually improving our products, therefore specifications and images are subject to change without notice.

**Having Trouble with your RS Loudspeaker?
We can help!**

**CONTACT OUR SUPPORT TEAM: support@samsontech.com
Our experts can help you resolve any issues.**

Follow us:

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