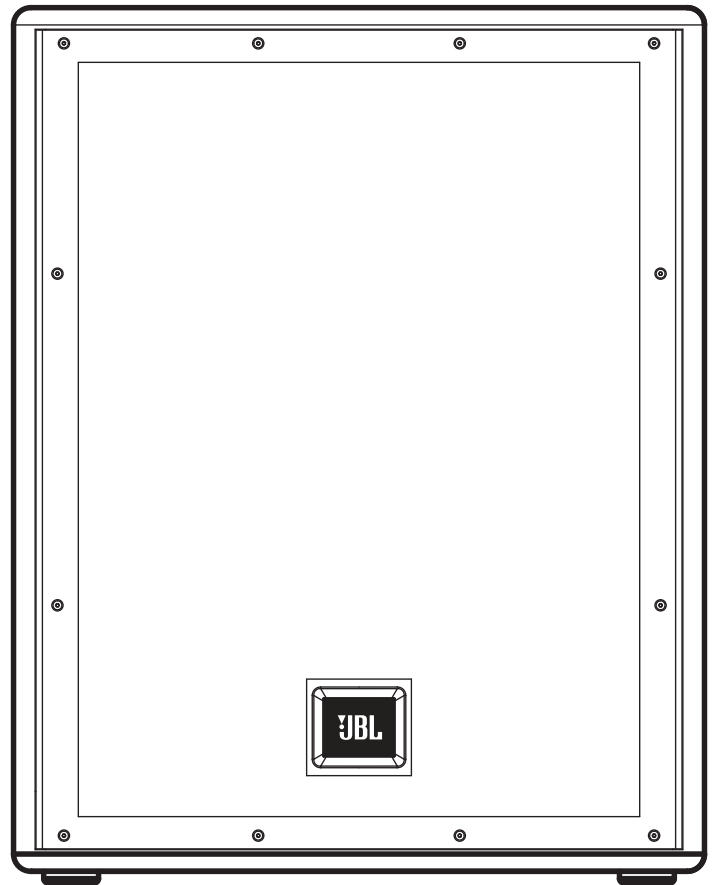


# IRX115S

## User's Guide



IRX115S



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# SAFETY INSTRUCTIONS

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The IRX115s covered by this manual is not intended for use in high moisture environments. Moisture can damage the speaker cone and surround and cause corrosion of electrical contacts and metal parts. Avoid exposing the speakers to direct moisture.

Keep speakers out of extended or intense direct sunlight. The driver suspension will prematurely dry out and finished surfaces may be degraded by long-term exposure to intense ultra-violet (UV) light. The IRX115s can generate considerable energy. When placed on a slippery surface such as polished wood or linoleum, the speaker may move due to its acoustical energy output. Precautions should be taken to assure that the speaker does not fall off a stage or table on which it is placed.

## HEARING DAMAGE, PROLONGED EXPOSURE TO EXCESSIVE SPL

The IRX115s is capable of generating sound pressure levels (SPL) sufficient to cause permanent hearing damage to performers, production crew, and audience members. Caution should be taken to avoid prolonged exposure to SPL in excess of 85 dB.

## CARE & CLEANING

IRX115s may be cleaned with a dry cloth. Do not allow moisture into any of the openings in the system. Ensure that the system is unplugged from the AC outlet before cleaning.

THIS APPARATUS CONTAINS POTENTIALLY LETHAL VOLTAGES. TO PREVENT ELECTRIC SHOCK OR HAZARD, DO NOT REMOVE CHASSIS, MIXER MODULE, OR AC INPUT COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

## WEEE Notice



The Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE), which entered into force as European law on 14/02/2014, resulted in a major change in the treatment of electrical equipment at end-of-life. The purpose of this Directive is, as a first priority, the prevention of WEEE, and in addition, to promote the reuse, recycling and other forms of recovery of such wastes so as to reduce disposal. The WEEE logo on the product or on its box indicating collection for electrical and electronic equipment consists of the crossed-out wheeled bin, as shown below. 15.

This product must not be disposed of or dumped with your other household waste. You are liable of dispose of all your electronic or electrical waste equipment by relocating over to the specified collection point for recycling of such hazardous waste. Isolated collection and proper recovery of your electronic and electrical waste equipment at the time of disposal will allow us to help conserving natural resources. Moreover, proper recycling of the electronic and electrical waste equipment will ensure safety of human health and environment. For more information about electronica and electrical waste equipment disposal, recovery, and collection points, please contact your local city center, household waste disposal service, shop from where you purchased the equipment, or manufacturer of the equipment.

## RoHS Compliance

This product is in compliance with Directive 2011/65/EU and (EU) 2015/863 of the European Parliament and of the Council of 19. 31/03/2015 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

## REACH


REACH (Regulation No 1907/2006) addresses the production and use of chemical substances and their potential impacts on human health and the environment. Article 33 (1) of REACH Regulation requires suppliers to inform the recipients if an article contains more than 0.1% (per weight per article) of any substance(s) on the Substances of Very High Concern (SVHC) Candidate List ('REACH candidate list').

This product contains the substance "lead" (CAS-No. 7439-92-1) in a concentration of more than 0.1% per weight. At the time of release of this product, except for the lead substance, no other substances of REACH candidate list are contained in a concentration of more than 0.1% per weight in this product.

**Note:** on June 27, 2018, lead was added to the REACH candidate list. The inclusion of lead in the REACH candidate list does not mean that lead-containing materials pose an immediate risk or results in a restriction of permissibility of its use.

# SAFETY INSTRUCTIONS

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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 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. 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 wider blade or the third prong are 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. DO NOT expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
17. Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
18. DO NOT overload wall outlets or extension cords beyond their rated capacity as this can cause electric shock or fire.
19. For adequate ventilation, do not install this equipment in a confined or enclosed space, such as a book case or similar unit.
20. Product ventilation should not be impeded by covering the ventilation openings with items such as newspaper, tablecloths, curtains, etc.



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



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

**WARNING:** To reduce the risk of fire or electrical shock, do not expose this apparatus to rain or moisture.

**WARNING:** No naked flame sources – such as lighted candles –should be placed on the product.

**WARNING:** Equipment shall be connected to a MAINS socket outlet with a protective earthing connection.



# SAFETY INSTRUCTIONS

**WARNING:** This product is intended to be operated ONLY from the voltages listed on the back panel. Operation from other voltages other than those indicated may cause irreversible damage to the product and void the products warranty. The use of AC Plug Adapters is cautioned because it can allow the product to be plugged into voltages in which the product was not designed to operate. If you are unsure of the correct operational voltage, please contact your local distributor and/or retailer. If the product is equipped with a detachable power cord, use only the type provided, or specified, by the manufacturer or your local distributor.

**OPERATING TEMPERATURE RANGE:** -20°C- 40°C (-4°F -104°F)



**WARNING:** Do Not Open! Risk of Electrical Shock. Voltages in this equipment are hazardous to life. No user-serviceable parts inside. Refer all servicing to qualified service personnel.

Place the equipment near a main power supply outlet and make sure that you can easily access the power breaker switch.

**WARNING:** Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

**CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type. Please dispose of any used batteries properly, following any local regulations. Do not incinerate.

**WARNING:** DO NOT EXPOSE BATTERIES OR BATTERY PACK TO EXCESSIVE HEAT, SUCH AS THAT FROM OPEN FLAMES, DIRECT SUNSHINE, ETC.

**CAUTION:** DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED, REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.

DO NOT UNDER ANY CIRCUMSTANCES OPERATE THE UNIT WITH THE WRONG VOLTAGE SELECTED. DOING SO MAY RESULT IN SERIOUS DAMAGE TO YOUR PA SYSTEM WHICH WILL NOT BE COVERED BY WARRANTY.

**FCC AND CANADA EMC COMPLIANCE INFORMATION:** 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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**CAUTION:** Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this device.

**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 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:** This product is for non-residential use only.

CAN ICES-3 (B)/NMB-3(B)



Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection.

# SAFETY INSTRUCTIONS

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**WIRELESS TRANSMITTER COMPLIANCE INFORMATION:** The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

Le terme «IC:» avant le numero de certification radio signifie seulement que les specifications techniques d'Industrie Canada ont ete respectees.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-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, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs / récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet appareil est conforme a FCC et IC !'exposition aux rayonnements limites fixees pour un environnement non controle. Cet appareil doit etre installe et utilise avec une distance minimale de 20cm entre le radiateur et votre corps. Cet transmetteur ne doit pas etre cositue ou operant en liaison avec toute autre antenne ou transmetteur.

## EU COMPLIANCE INFORMATION:

Hereby, HARMAN Professional, Inc., declares that the equipment type IRX115s is in compliance to the following: European Union Restriction of Hazardous Substances Recast (RoHS2) Directive 2011/65/EU; European Union WEEE (recast) Directive 2012/19/EU; European Union Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) Directive 1907/2006.

You may obtain a free copy of the full Declaration of Conformity by visiting:  
<http://www.jblpro.com/www/product-support/downloads>

## Prevention of hearing loss



**Caution:** Permanent hearing loss may occur if earphones or headphones are used at high volume for prolonged periods of time.  
**Note:** To prevent possible hearing damage, do not listen at high volume levels for long periods.

## ENVIRONMENTAL:



此标识适用于在中华人民共和国销售的电子信息产品。标识中间的数字为环保实用期限的年数。

# QUICK SETUP GUIDE

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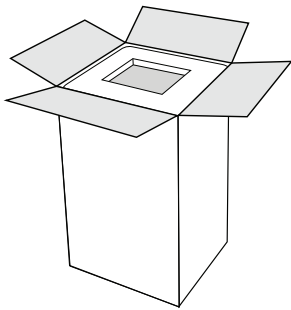
Congratulations on your purchase of JBL Professional IRX115s loudspeakers! We know you are anxious to get up and running as fast as possible, which is why you are reading this section. The following will help you get set up as soon as possible.

## Packaging Contents

Your IRX115s system should include the following:

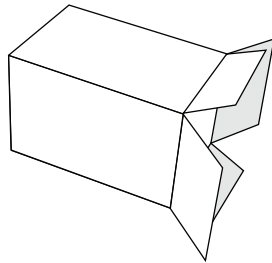
- 1 x IRX115s speaker
- 1 x 10'(3m) IEC Power Cable
- 1 x Quick Start Guide

## Unbox it



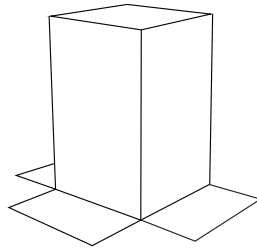
①

Open the top of the box.



②

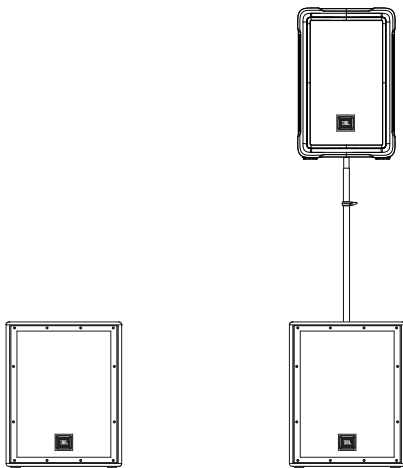
Lay box on its side.



③

Turn box upside down, then lift box up to reveal speaker.

## Configuration Options



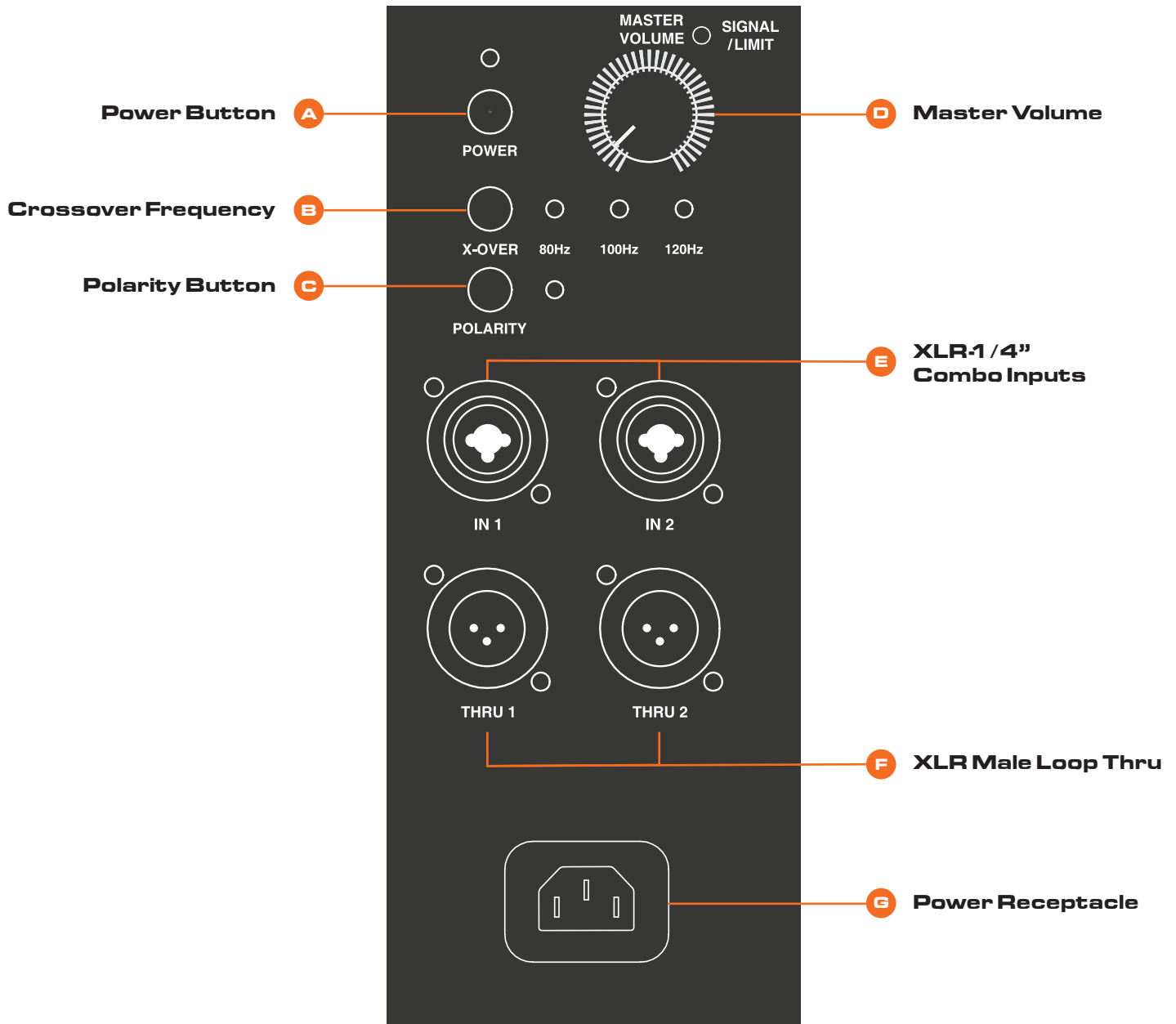
①

Floor Standing

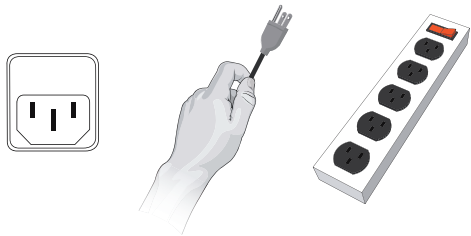
②

Subwoofer Mounted

# BACK PANEL



## POWER ON THE UNIT



1. Connect the power cord to the Power Receptacle (G).
2. Press the Power Button [A] to engage power.

## PLUG IN THE INPUTS

1. Turn the Master Volume (D) all the way to the left before connecting any inputs.
2. Connect your devices to the Input Jacks (E).

## A. Power Button

Press the Power Button to engage power.

## B. Crossover Frequency

Select the frequency you wish by pressing the Crossover Frequency Button (B). Choose crossover frequency EQ from one type to another type (cycling) by repeatedly pressing the Crossover Frequency Button (B).

## C. Polarity Button

Toggle polarity between ON and OFF

## D. Master Volume

Controls the master volume of the unit. By turning the knob counter-clockwise you will be lowering the overall volume of the speaker. By turning the control clockwise you will be increasing the overall volume of the speaker.

## E. XLR-1/4" Combo Inputs

These balanced inputs accept a standard XLR (female) connector and also a 1/4" TRS phone plug. These only accept line level, not mic level directly.

## F. XLR Male Loop Thru

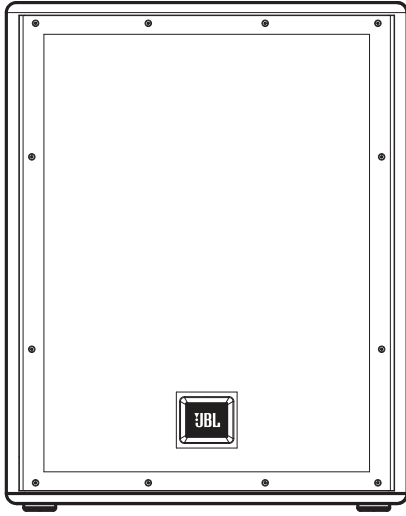
This XLR (male) output connector provides a method of sending audio out to an external source. If signal is present on both inputs, this sub will route directly through the signal from channel 1 to thru for channel 1 and signal from channel 2 to the thru for channel 2.

## G. Power Receptacle

Connect the supplied power cord to the power receptacle on the rear of the speaker. Connect the power cord to an available power outlet.

# OVERVIEW - IRX115S

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## IRX115S

### Powered 15" Subwoofer

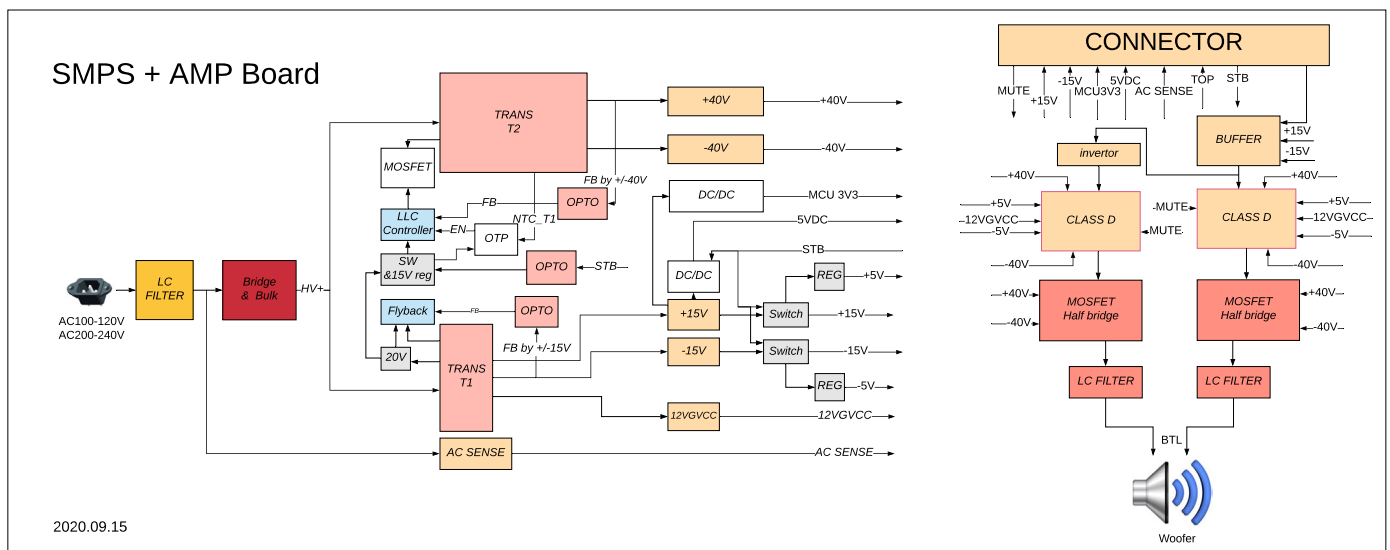
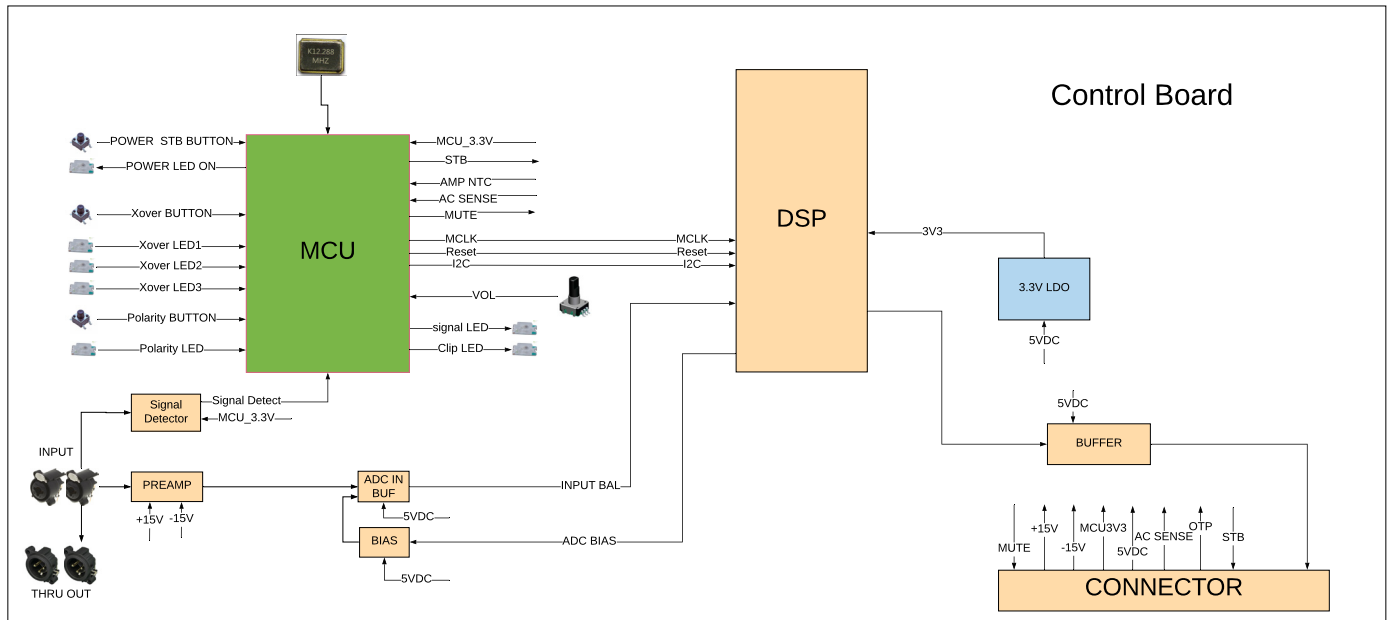
- 1300 Watt
- 66 lb (34.5 kg)
- 128dB

### Thank you for purchase of the JBL IRX115S Powered Subwoofer

The IRX115S is the perfect pairing for the IRX108BT or IRX112BT powered loud speakers. The IRX115S draws from JBL's top professional touring technologies to deliver superior sound without the guesswork, thanks to custom driver and amplifier designs, a tuned, ported enclosure and built-in crossover and polarity settings.

It all adds up to an impressive 128 dB of deep, powerful bass, in a rugged, lightweight cabinet to help bring 1300 watts of massive low end to any live performance. With proper care your IRX115S should provide you with many years of flawless performance, and JBL's more than 70-year live sound legacy.

# IRX115S - BLOCK DIAGRAM

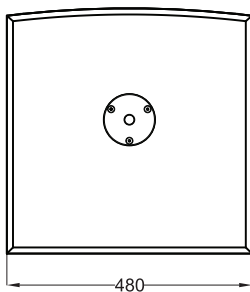


# IRX115S SPECIFICATIONS

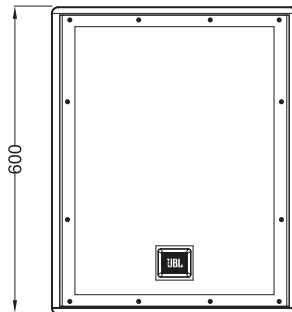
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## TECHNICAL SPECIFICATIONS

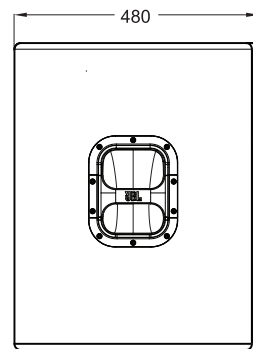
Freq Response (-3db)	45Hz - 103Hz
req Response (-10db)	35Hz - 147Hz
Wattage	1300W
Woofer Size	15"
Crossover Freq	80, 100, 120
Published (SPL)	128db
I/O	2 XLR combo, 2 XLR out
Cabinet	MDF
Weight	34.5 kg / 76lbs
Pole Mount	Yes



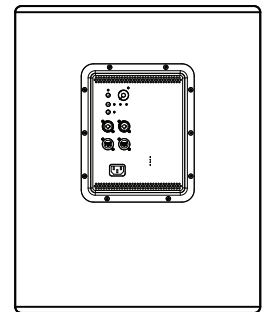
Top View



Front View



Left View



Rear View



# APPLICATIONS / FEATURES

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## MUSICIANS/PERFORMERS

Musicians and performers looking for a great-sounding, easy-to-use sound reinforcement speaker in a portable, affordable package.

## HOSPITALITY/GOVERNMENT INSTALLATIONS

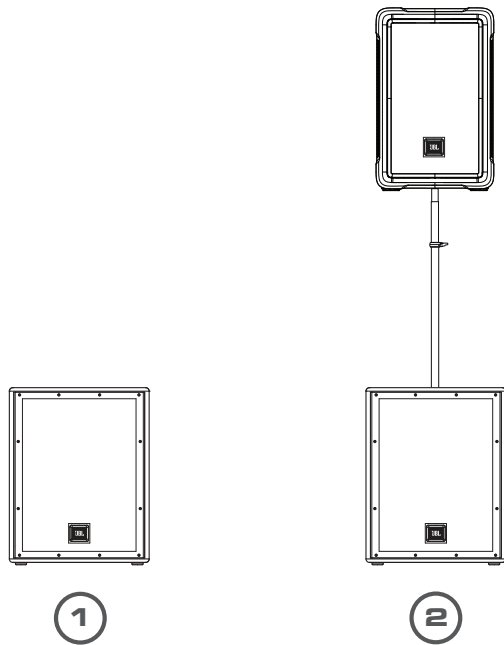
Hospitality/government installations requiring professional sound quality with ease of use and minimal setup time.

## FEATURES

- Powerful 15" woofer with 3" voicecoil generates smooth, detailed, deep LF response
- Selectable 80 Hz, 100 Hz and 120 Hz crossover points are optimized for JBL IRX Series loudspeakers
- Frequency response: 45Hz - 103Hz (-3 dB)
- Max SPL: 128 dB
- Weight: 76 pounds
- Power rating: 1,300W
- I/Os: 2 XLR Combo, 2 XLR out
- Polarity switch optimizes system response
- Lightweight, road-tested MDF cabinet
- Ported enclosure enhances output and reduces woofer noise
- Ergonomic handles make transport easy
- Reinforced grille offers rugged protection without compromising acoustic performance
- Built-in standard pole mount allows integration with IRX108BT, IRX112BT and other loudspeakers

# LOUDSPEAKER PLACEMENT AND SUSPENSION

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Floor Standing

Subwoofer Mounted

The following guidelines will help you achieve optimum sound wherever you use your IRX115s® loudspeaker:

## **Raise the speakers as high as possible.**

For best results try to get the high frequency horn at least 2 to 4 feet above the heads of the audience. If the speakers are too low, the people in the back of the audience will not receive the best quality sound.

## **Place the speakers between the microphones and the audience.**

Feedback occurs when the microphones pick up sound from the speakers and “feed” the sound back through the sound system. If space is limited, point the speakers away from the microphones to reduce feedback.

## **Locate the speakers away from turntables.**

Low-frequency feedback occurs when the output of the speaker is picked up by the tone arm of the turntable and is re-amplified. A heavy, solid turntable base and shock mounting can also reduce this type of feedback in DJ applications.

## **Use more speakers in large or highly reverberant spaces.**

Spreading speakers throughout these spaces will produce much better sound than trying to compensate with loudness level or equalization. For very long distances, the use of another set of speakers with time delay is recommended.

Stand speakers upright for PA - Tilt the speakers back on the side for stage monitoring. Upright stance provides even coverage over a wide area. IRX Series speakers are also designed with two slanted positions for stage monitoring applications.

# CABLES & CONNECTORS

XLR/F to XLR/M Microphone Cable	The standard cable for interconnection of microphone and line level signal in professional audio systems. • Microphone to mixer
TRS (balanced) 1/4 inch phone jack to XLR/M	For connecting balanced devices with 1/4 inch phone and maybe used interchangeably.
TRS (unbalanced) 1/4 inch phone jack to XLR/M	For connections of instruments with unbalanced outputs to balanced XLR inputs.
TS (unbalanced) 1/4 inch phone jack to XLR/M	This cable is electrically identical to "TRS" (unbalanced) 1/4 inch phone and may be used interchangeably.
XLR/M to RCA (phono) cable	Connects consumer audio products and some DJ mixer outputs to professional audio equipment inputs
TRS 1/4 inch Phone jack to dual 1/4 inch Phone jack	Splits a stereo output into separate left/right signals.
TRS 1/4 inch Phone jack to dual 1/4 inch Phone jack	Change to a TRS mini-phone jack to connect to the output of a portable. MP3/CD – player and computer sound cards to a mixer.
XLR/F to XLR/M audio ground lift	Only with balanced in - and outputs

**XLR/F to XLR/M Microphone Cable**



**TRS (Balanced) 1/4" Phone to XLR/M Cable**



**TRS (Unbalanced) 1/4" Phone to XLR/M Cable**



**TS (Unbalanced) 1/4" Phone to XLR/M Cable**



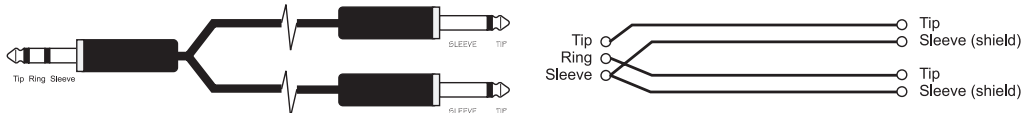
**XLR/M to RCA (phono) Cable**



**TS (Unbalanced) 1/4" Phone to RCA (phono) Cable**



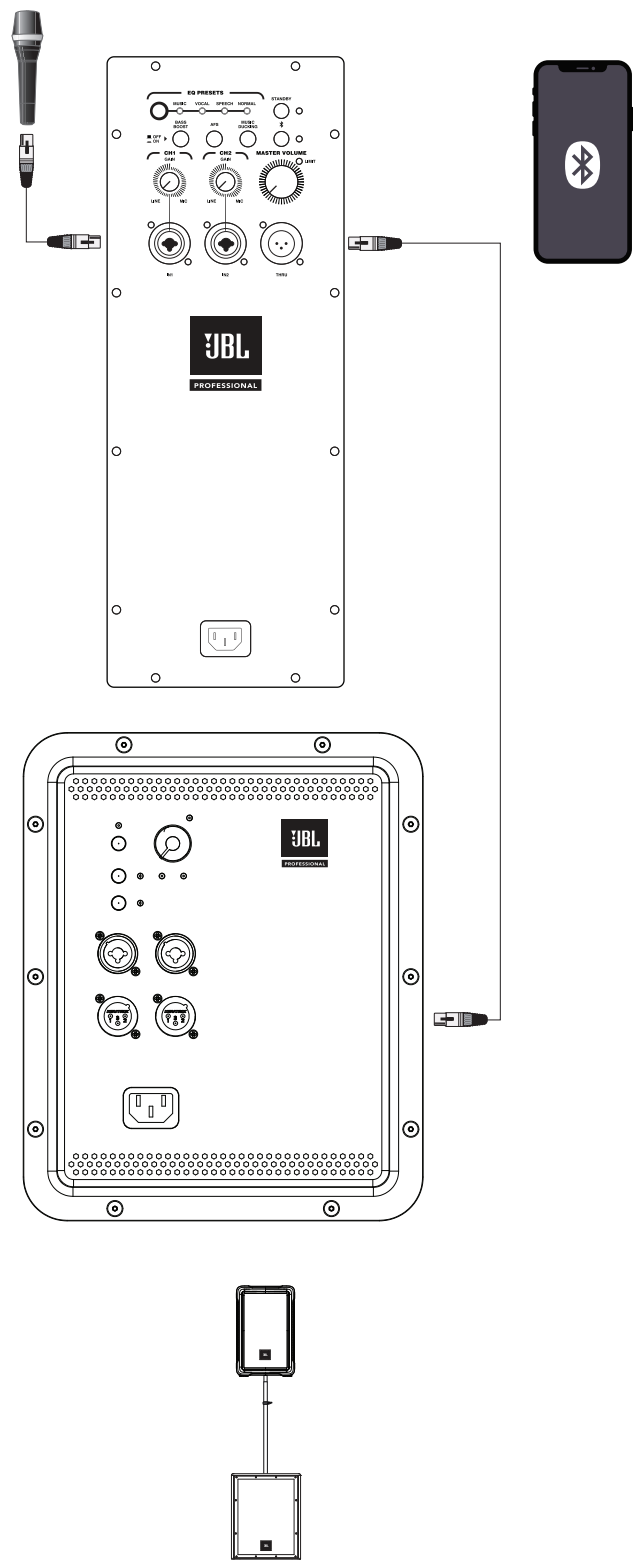
**TRS 1/4" Phone to dual TS 1/4" Phone**



**XLR/F to XLR/M Audio Ground Lift**



# APPLICATION EXAMPLES

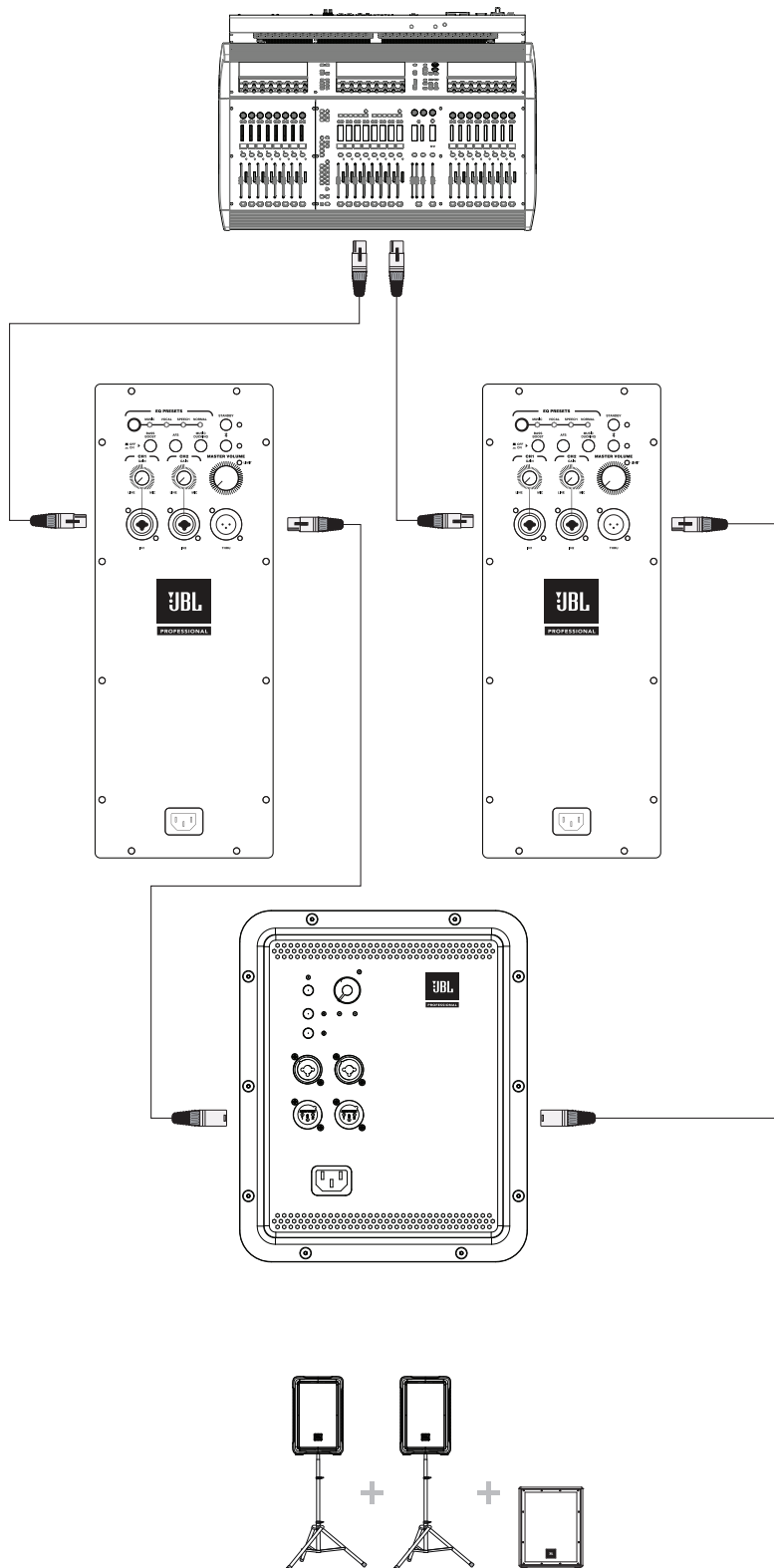


## SMALL PA USING XLR AND BLUETOOTH INPUTS AND THRU FUNCTION

CH1 XLR-1/4" Combo and  
wireless Bluetooth input to XLR-1/4" Thru

1+1 MODE RECOMMENDED SETTINGS								
108BT or 112BT  Coupled with 115s Subwoofer								
 108BT / 112BT  CH 1/2 GAIN	<table><tr><th>LINE</th><th>MICROPHONE</th></tr><tr><td> LINE MAX position</td><td> AKG microphone 4 o'clock position</td></tr></table>	LINE	MICROPHONE	 LINE MAX position	 AKG microphone 4 o'clock position			
	LINE	MICROPHONE						
 LINE MAX position	 AKG microphone 4 o'clock position							
<p>EQ PRESETS</p> <p>MUSIC VOCAL SPEECH FLAT</p> <p>BASS BOOST AFS MUSIC DUCKING</p> <p>OFF ON</p> <p>Preset to Vocals with AFS on</p>								
 115s Subwoofer	<p>SUBWOOFER MASTER VOLUME</p> <p>MASTER VOLUME</p> <p>LIMIT</p> <p>12 o'clock position</p> <p>Besides these optimal setting, user(s) can continue to adjust according to application or scenario, while referring to the following microphone and subwoofer positioning distance to prevent unnecessary feedback noise.</p>							
	<p>MICROPHONE (presenter or speaker) Subwoofer positioning distance</p> <p>Microphone (speaker/presenter) stands before subwoofer.</p>							
	<p>To prevent any unnecessary feedback, please: Position Microphone at least 2m (6ft) from a speaker Do not stand directly in front of a speaker</p>							
	<table><tr><td></td><td></td><td></td><td></td></tr><tr><td colspan="4">POLARITY</td></tr></table> <p>Crossover at 80Hz with Polarity off</p>					POLARITY		
POLARITY								

# APPLICATION EXAMPLES



## SMALL PA USING TWO SYSTEMS AS MONITORS WITH SHARED THRU FUNCTION

PA1 and PA2 CH1 XLR-1/4" Combo inputs pass Thru to Sub

2+1 MODE RECOMMENDED SETTINGS	
108BT or 112BT  Coupled with 115s Subwoofer	
108BT / 112BT  CH 1/2 GAIN	<div> <div> <b>LINE</b> <b>LINE MAX position</b> </div> <div> <b>MICROPHONE</b> <b>AKG microphone 4 o'clock position</b> </div> </div> <div> <b>EQ PRESETS</b> <b>Preset to Vocals with AFS on</b> </div>
	<b>SUBWOOFER MASTER VOLUME</b> <b>LIMIT LED position (between 1 &amp; 2 o'clock)</b> <p>Besides these optimal setting, user(s) can continue to adjust according to application or scenario, while referring to the following microphone and subwoofer positioning distance to prevent unnecessary feedback noise.</p>
	<b>MICROPHONE (presenter or speaker) Subwoofer positioning distance</b> <p><b>Microphone (speaker/presenter) stands before subwoofer.</b></p> <p>To prevent any unnecessary feedback, please: Position Microphone at least 2m (6ft) from a speaker Do not stand directly in front of a speaker</p>
115s Subwoofer	<div> <div> <b>X-OVER 80Hz 100Hz 120Hz</b> </div> <div> <b>POLARITY</b> </div> </div> <b>Crossover at 80Hz with Polarity off</b>



# TROUBLE SHOOTING

Symptom	Likely Cause	What to do
No sound	Speaker not connected to active AC power	Verify that speaker is connected and that the circuit is on
	Power not switched on	Switch on power and verify that power LED is on
	Speaker in bypass mode	Twist any knob or press the bypass button to wake the speaker.
No sound, speaker is connected to working AC power but won't come on.	Speaker power cable is faulty or improperly connected.	<ul style="list-style-type: none"> <li>• Re-seat the power cable at both ends.</li> <li>• Substitute a known-good power cable</li> </ul>
No sound. Speaker comes on.	Signal source (mixer, instrument, etc.) is not sending.	<ul style="list-style-type: none"> <li>• Check VU meters on the source mixer</li> <li>• Verify that the tape or CD is playing.</li> <li>• Use headphones to verify that the instrument is actually sending an audio signal</li> </ul>
	Faulty cables and connections	<ul style="list-style-type: none"> <li>• Disconnect and re-seat signal cables.</li> <li>• Replace suspected cable with a known-good cable</li> </ul>
No sound with microphone connected directly to the MIC/ LINE input.	Microphone requires phantom power	IRX115S is not set up for microphone levels. Please use a mixer, or run out of the pass through of an IRX108BT or IRX112BT.
Signal sounds distorted and very loud, PEAK light is lit most of the time.	Excessive input signal, trying to exceed the capabilities of the speakers	<ul style="list-style-type: none"> <li>• Reduce the output level of the source.</li> <li>• Turn down the level controls on the speaker.</li> <li>• Use additional VE speakers.</li> </ul>
Signal sounds distorted even at moderate volumes, LIMIT light is not lit.	Mixer or other source is overdriven	Review the Owner's Manual for your mixer and adjust controls as needed. <ul style="list-style-type: none"> <li>• Input sensitivity (gain)</li> <li>• Channel faders</li> <li>• Master faders Once this is done, review the instructions in the Quick Start section of this guide.</li> </ul>
Lots of hiss in the sound, the mixer controls are at very low settings.	Improper gain structure	<ul style="list-style-type: none"> <li>• Make sure that the MIC/LINE switch is in the LINE (disengaged) position.</li> <li>• Mic/Line switch operation will be a little different.</li> <li>• Reduce the level settings at speaker. Review the Owner's Manual for your mixer and adjust controls as needed.</li> <li>• Input sensitivity (gain)</li> <li>• Channel faders</li> <li>• Master faders</li> </ul>
Noise or hiss heard at output.	Noisy source device	Disconnect the devices that are connected to your speaker one at a time. If the noise goes away, the problem is with the source or the connecting cable.
Hum or Buzz that increases or decreases when the mixer level controls are moved.	Improper A/C ground or faulty equipment connected to mixer input	Disconnect or mute channels one at a time to isolate the problem. Refer to the owner's manual of the faulty equipment for troubleshooting help.
	Faulty cable between source equipment and mixer	Substitute a known-good cable for the suspected faulty cable.
Hum or Buzz	Improper A/C grounding, ground loops	<ul style="list-style-type: none"> <li>• 'Lift' the audio ground by using an XLR/F to XLR/M adapter on one end.</li> <li>• Re-route audio cables away from AC power and lighting cables.</li> </ul>
	Excessively long unbalanced cable run	<ul style="list-style-type: none"> <li>• Use the balanced outputs (if available) of your mixer or source equipment to drive your IRX115s.</li> <li>• Use a "DI" (direct injection) box to convert your unbalanced equipment output to a balanced output.</li> </ul>
	Improper system gain structure	Reduce the INPUT level controls and increase the output level of your source devices.

# WARRANTY INFORMATION

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The JBL Limited Warranty on professional loudspeaker products (except for enclosures) remains in effect for five years from the date of the first consumer purchase. JBL amplifiers are warranted for three years from the date of original purchase. Enclosures and all other JBL products are warranted for two years from the date of original purchase.

## Who Is Protected By This Warranty?

Your JBL Warranty protects the original owner and all subsequent owners so long as: A.) Your JBL product has been purchased in the Continental United States, Hawaii or Alaska. (This Warranty does not apply to JBL products purchased elsewhere except for purchases by military outlets. Other purchasers should contact the local JBL distributor for warranty information.); and B.) The original dated bill of sale is presented whenever warranty service is required.

## What Does The JBL Warranty Cover?

Except as specified below, your JBL Warranty covers all defects in material and workmanship. The following are not covered: Damage caused by accident, misuse, abuse, product modification or neglect; damage occurring during shipment; damage resulting from failure to follow instructions contained in your Instruction Manual; damage resulting from the performance of repairs by someone not authorized by JBL; claims based upon any misrepresentations by the seller; any JBL product on which the serial number has been defaced, modified or removed.

## Who Pays For What?

JBL will pay all labor and material expenses for all repairs covered by this warranty. Please be sure to save the original shipping cartons because a charge will be made if replacement cartons are requested. Payment of shipping charges is discussed in the next section of this warranty.

## How To Obtain Warranty Performance

If your JBL product ever needs service, write or telephone us at JBL Incorporated (Attn: Customer Service Department), 8500 Balboa Boulevard, P.O. Box 2200, Northridge, California 91329 (818/893-8411). We may direct you to an authorized JBL Service Agency or ask you to send your unit to the factory for repair. Either way, you'll need to present the original bill of sale to establish the date of purchase. Please do not ship your JBL product to the factory without prior authorization. If transportation of your JBL product presents any unusual difficulties, please advise us and we may make special arrangements with you. Otherwise, you are responsible for transporting your product for repair or arranging for its transportation and for payment of any initial shipping charges. However, we will pay the return shipping charges if repairs are covered by the warranty.

## Limitation of Implied Warranties

ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

## EXCLUSION OF CERTAIN DAMAGES

JBL'S LIABILITY IS LIMITED TO THE REPAIR OR REPLACEMENT, AT OUR OPTION, OF ANY DEFECTIVE PRODUCT AND SHALL NOT INCLUDE INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY, FROM STATE TO STATE.

## JBL Professional

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Northridge, CA 91329

**Shipping Address:**

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(Do not return product to this address without first obtaining prior authorization from JBL)

**Customer Service:**

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Pacific Coast Time in the U.S.A.

**(800) 8JBLPRO (800.852.5776)**

[www.jblproservice.com](http://www.jblproservice.com)

**On The World Wide Web:**

[www.jblpro.com](http://www.jblpro.com)

**Professional Contacts, Outside the USA:**

Contact the JBL Professional Distributor in your area.  
A complete list of JBL Professional international distributors is provided at our U.S.A. website: [www.jblpro.com](http://www.jblpro.com)

# IRX115S