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## SAFETY INSTRUCTIONS

The IRX100 Series 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 speaker may move due to its acoustic 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 IRX100 Series 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

IRX100 Series 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 electronic 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


### 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

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 and a third grounding prong. The wider blade or the third prong are provided to reduce the risk of electrical shock.
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 normally, or has been dropped.
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 objects filled with liquids, such as vases, are not 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. When 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 electrical shock or fire.
19. FOR adequate ventilation, do not install this equipment in a confined or enclosed space. In this residential environment this equipment may cause radio interference.

WARNING: Do Not Operate Risk of Electrical Shock. Voltages in this equipment are hazardous to life. No user-serviceable parts inside.

WARNING: Do Not Expose apparatus to dripping or splashing and objects filled with liquids, such as vases, are not placed on the apparatus.

WARNING: When moving the cart/apparatus combination to avoid injury from tip-over.

WARNING: Use only the type power cord provided, or specified, by the manufacturer.

WARNING: Do Not Open! Risk of Electrical Shock. Voltages in this equipment are hazardous to life. No user-serviceable parts inside.

NOTE: When moving the cart/apparatus combination to avoid injury from tip-over.

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

NOTE: This equipment is compliant with Class B of CISPR 32. In a residential environment this equipment may cause radio interference.

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.

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 numéro de certification radio signifie seulement que les spécifications techniques d’Industrie Canada ont été respectées.

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 exempts 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 operated in conjunction with any other antennas or transmitter.

Cet appareil est conforme à la FCC et IC exposition aux radiations limites fixées pour un environnement non contrôlé. Cet appareil doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et votre corps. Cet transmetteur ne doit pas être co-locataire ou en opération en liaison avec toute autre antenne ou transmetteur.

EUROPEAN COMPLIANCE INFORMATION: Hereby, HARMAN Professional, Inc., declares that the equipment type IRX100 Series is in compliance to the following:

A) The European Union Restriction of Hazardous Substances Recast (RoHS2) Directive 2011/65/EU.

The device complies with the requirements of the Low Voltage Directive 2014/35/EU.

CAUTION: crates and other packaging materials should not be disposed of with general household waste. Please follow local regulations.

SAFETY INSTRUCTIONS

This product contains batteries that are covered under the 2006/66/EC European Directive, which cannot be disposed of with normal household waste. Please follow local regulations.

WIRELESS FREQUENCY RANGE AND WIRELESS OUTPUT POWER: 2400MHz - 2480MHz 4.00mW

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.

CLASS B PRODUCT:

This device is classified as a Class B digital device in accordance with the Radio Equipment and Telecommunications Terminal Equipment Directive 2014/53/EU.

ENVIRONMENTAL:

This product is designed to suit the environmental conditions in which it was originally intended to be used. To maintain product performance, it is designed to operate with a distance of 20cm from other apparatus (including amplifiers) that produce heat.

The term “IC” before the radio certification number only signifies that Industry Canada technical specifications were met. Precautions against harmful interference in a particular environment are 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 operated in conjunction with any other antennas or transmitter.

Cet appareil contient des émetteurs/ récepteurs exempts 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 operated in conjunction with any other antennas or transmitter.

Cet appareil est conforme à la FCC et IC exposition aux radiations limites fixées pour un environnement non contrôlé. Cet appareil doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et votre corps. Cet transmetteur ne doit pas être co-locataire ou en opération en liaison avec toute autre antenne ou transmetteur.

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You may obtain a free copy of the full Declaration of Conformity by visiting:

DECLARATION OF CONFORMITY

EN 60065:2014 8th Ed.
Audio, video and similar electronic apparatus – Safety requirements

EN 62368-1:2014+A11:2017
Audio/video, information and communication technology equipment - Part 1: Safety requirements

EN 301489-1 V2.1.1
Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU

EN 301489-17 V3.1.1
Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

EN 300328 V2.1.1
Wideband transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

EN62479:2010
Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10MHz to 300GHz)

EN 55032: 2015
Electromagnetic compatibility of multimedia equipment – Emission requirements, Class B

EN 55035:2017
Electromagnetic compatibility of multimedia equipment – Immunity requirements

EN 61000-3-2: 2014
Electromagnetic Compatibility Part 3. Limits Section 2. Limits for harmonic current emissions (equipment input current ≤16A per phase)

EN 61000-3-3: 2013
Electromagnetic Compatibility Part 3. Limits Section 3. Limits for voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤16A

QUICK SETUP GUIDE

Congratulations on your purchase of JBL Professional IRX100 Series 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 IRX100 system should include the following:
1 x IRX100 speaker
1 x 2M (6.5ft) IEC Power Cable
1 x Quick Start Guide

Unbox it
Open the top of the box. Lay box on its side. Turn box upside down, then lift box up to reveal speaker.

Configuration Options
Floor Standing - Monitor Position - Pole Mounted - Subwoofer Mounted
**POWER IT ON**

1. Connect the power cord to the Power Receptacle (L).
2. Press the Power Standby (H) switch for .5 of a second to engage power.

**PLUG IN THE INPUTS**

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

**SET UP THE CHANNELS**

1. Select a Preset using the EQ Preset Selection Button (B).
2. Determine the CH1 & CH2 Gain (D) source. For microphone set to 3 o’clock. For line source set to 9 o’clock.
3. Slowly turn the Master Volume (J) to the right until the desired volume is reached.

**PAIR BLUETOOTH™ AUDIO**

This device supports Bluetooth audio streaming.

To connect your device:
1. Turn on Bluetooth on your source device.
2. Hold the Bluetooth (I) button for 2 seconds. The LED will blink when the IRX Speaker is in pairing mode.
3. Find the desired IRX speaker on your device and select.

**POWER IT ON**

1. Connect the power cord to the Power Receptacle (L).
2. Press the Power Standby (H) switch for .5 of a second to engage power.

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Thank you for purchasing the new JBL IRX100 Series!

More than just another great JBL sound system, the new IRX100 Series is a true step forward in technology developed specifically to deliver the best sound possible regardless of its application. Completely rethinking how truly good an affordable self-contained, portable PA system can be, JBL engineers purposely designed and built the IRX100 Series from the ground up featuring JBL’s advanced waveguide technology, JBL designed and manufactured transducers.

This total redesign of the IRX100 Series platform leverages the latest technologies in cabinet materials, acoustic science, transducer design and user friendliness that delivers the extraordinary quality of a high-end studio monitor in a fully professional, highly flexible, easy to use, portable system for today’s working musicians and sound providers.

With proper care your IRX100 Series speakers should provide you with many years of flawless performance, and are flexible enough to be a part of your sound reinforcement system even as it grows in scope.
IRX108BT SPECIFICATIONS

TECHNICAL SPECIFICATIONS

SYSTEM TYPE: Powered 8" two-way
CABINET: Polypropylene with full grille
SENSITIVITY (SPL): 124 dB peak
FREQUENCY RESPONSE (±3 dB): 54 Hz – 20 kHz
POWER RATING: 1300 watts peak
INPUT IMPEDANCE: 10k ohm balanced
COVERAGE PATTERN: 90º (horizontal) x 60º (vertical) nominal
BLUETOOTH: Audio streaming, Bluetooth version 5.0
DSP: 4 presets, feedback suppression, ducking
I/O: 2 XLR/TRS combo mic/line inputs, 1 XLR pass-thru output 35 mm pole socket
MOUNTING: 17.4 lb (7.9 kg)
NET WEIGHT: 10.15 x 12.32 x 19.15 in
DIMENSIONS (D x W x H): (258 x 313 x 486 mm)

ORDER SPECIFICATIONS

SHIPPING CARTON (L x W x H): 10.87 x 13.35 x 20.35 in
(276 x 339 x 517 mm)
SHIPPING WEIGHT: 20.5 lb (9.3 kg)
UPC COD 691991033506

IRX112BT SPECIFICATIONS

TECHNICAL SPECIFICATIONS

SYSTEM TYPE: Powered 12" two-way
CABINET: Polypropylene with full grille
SENSITIVITY (SPL): 127 dB peak
FREQUENCY RESPONSE (±3 dB): 53 Hz – 20 kHz
POWER RATING: 1300 watts peak
INPUT IMPEDANCE: 10k ohm balanced
COVERAGE PATTERN: 90º (horizontal) x 60º (vertical) nominal
BLUETOOTH: Audio streaming, Bluetooth version 5.0
DSP: 4 presets, feedback suppression, ducking
I/O: 2 XLR/TRS combo mic/line inputs, 1 XLR pass-thru output 35 mm pole socket
MOUNTING: 27.3 lb (12.4 kg)
NET WEIGHT: 11.77 x 15.75 x 24.35 in
DIMENSIONS (D x W x H): (299 x 400 x 618.4 mm)

ORDER SPECIFICATIONS

SHIPPING CARTON (L x W x H): 12.64 x 16.61 x 25.59 in
(321 x 422 x 650 mm)
SHIPPING WEIGHT: 32 lb (14.51 kg)
UPC COD 691991033544
MUSIC DUCKING / AUTOMATIC FEEDBACK SUPPRESSION

Music Ducking
Soundcraft®-designed ducking automatically attenuates music when speech is detected.

- Press the “Music Ducking button”
- Plug a microphone into the desired Channel output.
- Pair a BT device to the speaker.
- Turn the microphone gain up to the desired level.
- Ducking will now happen automatically.

Automatic Feedback Suppression
dbx® Automatic Feedback Suppression for trouble-free operation.

- To activate AFS (automatic feedback suppression), simply press the AFS button.
- To clear AFS notch filters
  - With the AFS button pressed to ON, press and hold the Power button for 3 seconds. The EQ Preset LEDs for Vocal and Speech will light 3 times, indicating your filters have been reset.

APPLICATIONS / FEATURES

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

PRESENTERS/INSTRUCTORS
Mobile presenters and fitness instructors looking for an easy-to-use, compact PA solution with Bluetooth audio and built-in music ducking.

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

FEATURES
- Four real-world EQ presets take the guesswork out of
- dbx AFS stops feedback before it starts
- Bluetooth integration allows stereo streaming of music, soundtracks and backing tracks
- One-touch ducking automatically lowers music volume when speech input is detected
- Wide frequency response: 53 Hz – 20 kHz
- Lightweight design
- Wattage: 1300W
- 2 XLR/TRS combo input jacks and 1 XLR out offer a range of connectivity choices
- Input accepts mic or line source to enhance versatility
- Ergonomic handles make transport quick and easy
- Durable honeycomb steel grille is road-tested for reliability
- Built-in pole mount expands system set-up options

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Bluetooth operation of IRX

To pair a device to a single speaker:
- Press the Bluetooth button for 2s until the light blinks slowly
- Navigate to the Bluetooth settings of your device.
- Select the IRX speaker you wish to stream to
- You will hear a connection tone when connection is successful

To pair a device in true stereo
- Press and hold the Bluetooth button on 1 speaker until both the Power LED and the Bluetooth LED blink. An audio cue will be heard.
- Repeat the process on a 2nd speaker.
- After around 30 seconds, the speakers will pair to each other. An audio cue will be heard.
- Press the BT button again to pair your device to 1 speaker only.
- Navigate to the Bluetooth settings of your device.
- Select the single speaker you are attempting to pair to.
- Speakers will now stream in TWS.

To exit TWS
- Press and hold the BT button for 5 seconds until both the power LED and Bluetooth LED blink.
- Press the BT button again.
- The speakers are now unpaired.

LOUDSPEAKER PLACEMENT AND SUSPENSION

The following guidelines will help you achieve optimum sound wherever you use your IRX100 Series ® loudspeakers:

**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

<table>
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<th>Cable Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLR/F to XLR/M Microphone Cable</td>
<td>The standard cable for interconnection of microphone and line level signal in professional audio systems.&lt;br&gt;• Microphone to mixer</td>
</tr>
<tr>
<td>TRS (balanced) 1/4 inch phone jack to XLR/M</td>
<td>For connecting balanced devices with 1/4 inch phone and maybe used interchangeably.</td>
</tr>
<tr>
<td>TRS (unbalanced) 1/4 inch phone jack to XLR/M</td>
<td>For connections of instruments with unbalanced outputs to balanced XLR inputs.</td>
</tr>
<tr>
<td>TS (unbalanced) 1/4 inch phone jack to XLR/M</td>
<td>This cable is electrically identical to “TRS” (unbalanced) 1/4 inch phone and may be used interchangeably.</td>
</tr>
<tr>
<td>XLR/M to RCA (phono) cable</td>
<td>Connects consumer audio products and some DJ mixer outputs to professional audio equipment inputs</td>
</tr>
<tr>
<td>TRS 1/4 inch Phone jack to dual 1/4 inch Phone jack</td>
<td>Splits a stereo output into separate left/right signals.</td>
</tr>
<tr>
<td>TRS 1/4 inch Phone jack to dual 1/4 inch Phone jack</td>
<td>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.</td>
</tr>
<tr>
<td>XLR/F to XLR/M audio ground lift</td>
<td>Only with balanced in - and outputs</td>
</tr>
</tbody>
</table>

### APPLICATION EXAMPLES

**Small PA Using Both Inputs and Thru Function**

- **CH1 input set to “Mic”**
- **CH2 input set to “Line”**
- **Main Speaker Position**
<table>
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<tr>
<th>Symptom</th>
<th>Likely Cause</th>
<th>What to do</th>
</tr>
</thead>
<tbody>
<tr>
<td>No sound</td>
<td>Speaker not connected to active AC power</td>
<td>Verify that speaker is connected and that the circuit is on.</td>
</tr>
<tr>
<td></td>
<td>Power not switched on</td>
<td>Switch on power and verify that the power LED is on.</td>
</tr>
<tr>
<td></td>
<td>Speaker in bypass mode</td>
<td>Twist any knob or press the bypass button to wake the speaker.</td>
</tr>
<tr>
<td>No sound, speaker is connected to working AC power but won’t come on.</td>
<td>Speaker power cable is faulty or improperly connected.</td>
<td>• Re-seat the power cable at both ends. • Substitute a known-good power cable.</td>
</tr>
<tr>
<td>No sound. Speaker comes on.</td>
<td>Signal source (mixer, instrument, etc.) is not sending.</td>
<td>• Check VU meters on the source mixer. • Verify that the tape or CD is playing. • Use headphones to verify that the instrument is actually sending an audio signal.</td>
</tr>
<tr>
<td>Faulty cables and connections</td>
<td>• Disconnect and re-seat signal cables. • Replace suspected cable with a known-good cable.</td>
<td></td>
</tr>
<tr>
<td>No sound with microphone connected directly to the MIC/LINE input.</td>
<td>Microphone requires phantom power</td>
<td>The VE does not supply phantom power. Switch to a dynamic microphone, use a battery powered microphone (if possible), use an external phantom power supply for condenser type microphones.</td>
</tr>
<tr>
<td>Signal sounds distorted and very loud, PEAK light is lit most of the time.</td>
<td>Excessive input signal, trying to exceed the capabilities of the speakers</td>
<td>• Reduce the output level of the source. • Turn down the level controls on the speaker. • Use additional VE speakers.</td>
</tr>
<tr>
<td>Lots of hiss in the sound, the mixer controls are at very low settings.</td>
<td>Improper gain structure</td>
<td>• Make sure that the MIC/LINE switch is in the LINE (disengaged) position. • MicLine switch operation will be a little different. • Reduce the level settings at speaker. Review the Owner’s Manual for your mixer and adjust controls as needed. • Input sensitivity (gain) • Channel faders • Master faders.</td>
</tr>
<tr>
<td>Noise or hiss heard at output.</td>
<td>Noisy source device</td>
<td>Disconnect the devices that are connected to your speaker one at a time.</td>
</tr>
<tr>
<td>Hum or Buzz that increases or decreases when the mixer level controls are moved.</td>
<td>Improper AC ground or faulty equipment connected to mixer input</td>
<td>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.</td>
</tr>
<tr>
<td>Faulty cable between source equipment and mixer</td>
<td>Substitute a known-good cable for the suspected faulty cable.</td>
<td></td>
</tr>
<tr>
<td>Hum or Buzz</td>
<td>Improper AC grounding, ground loops</td>
<td>• Lift the audio ground by using an XLR/F to XLR/M adapter on one end. • Re-route audio cables away from AC power and lighting cables.</td>
</tr>
<tr>
<td>Excessively long unbalanced cable run</td>
<td>• Use the balanced outputs (if available) of your mixer or source equipment to drive your IRX100 Series. • Use a “DI” (direct injection) box to convert your unbalanced equipment output to a balanced output.</td>
<td></td>
</tr>
<tr>
<td>Improper system gain structure</td>
<td>Reduce the INPUT level controls and increase the output level of your source devices.</td>
<td></td>
</tr>
</tbody>
</table>
WARRANTY INFORMATION

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
8500 Balboa Blvd. Northridge, CA 91329 USA

CONTACT INFORMATION

Mailing Address:
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Northridge, CA 91329

Shipping Address:
JBL Professional
8500 Balboa Blvd., Dock 15
Northridge, CA 91329
(Do not return product to this address without first obtaining prior authorization from JBL)

Customer Service:
Monday through Friday
8:00am - 5:00pm
Pacific Coast Time in the U.S.A.
(800) 8JBLPRO (800.852.5776)
www.jblservice.com

On The World Wide Web:
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